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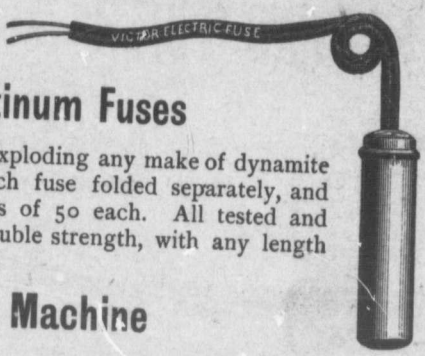

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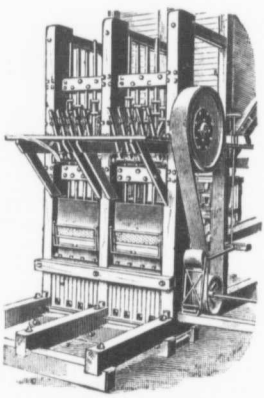

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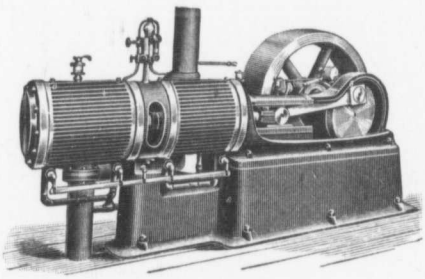

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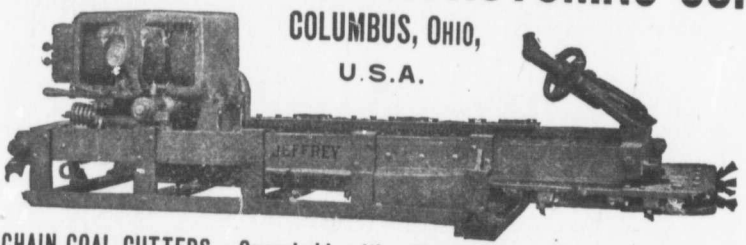

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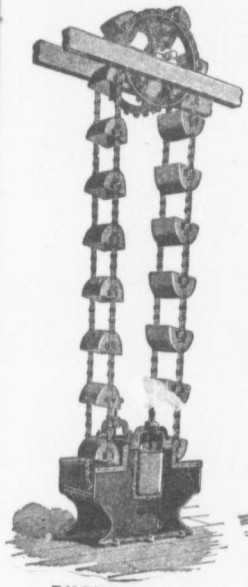

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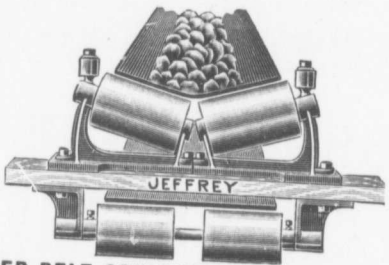

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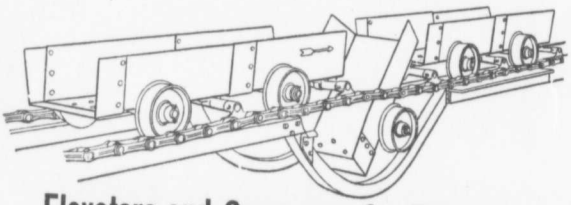

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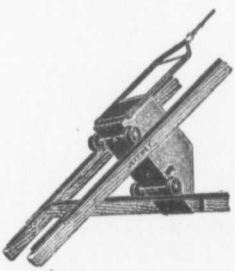

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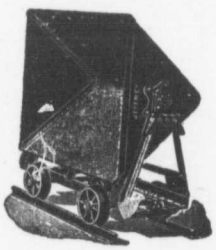

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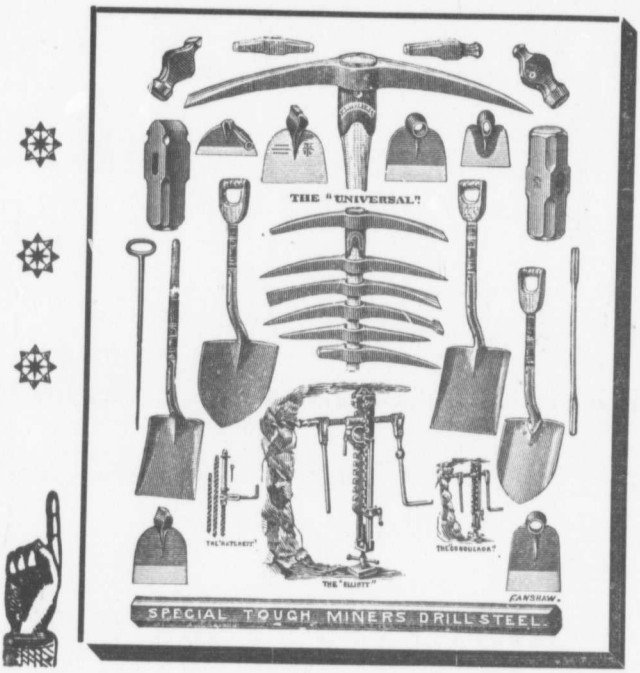

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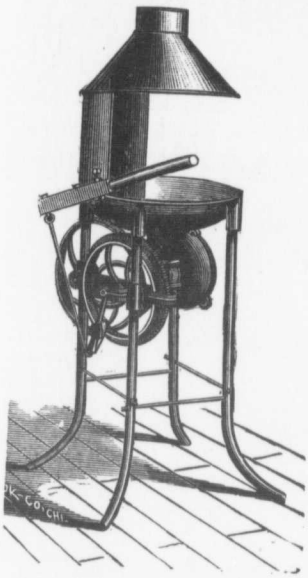

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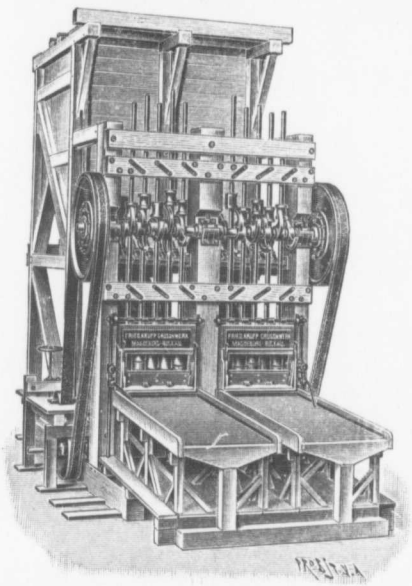

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Special attention is directed to the facilities possessed by the School for giving Instruction in Mining Engineering. Practical Instruction is given in Drawing and Surveying, and in the following Laboratories :—

1—Chemical
2—Assaying
3—Milling
4—Steam
5—Metrological
6—Electrical
7—Testing

The School also has good collections of Minerals, Rocks and Fossils. Special Students will be received as well as those taking regular courses.

FOR FULL INFORMATION SEE CALENDAR.

L. B. STEWART, Secretary

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KINGSTON, ONTARIO

xxxx

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2—Four Years' Course for a Degree in

(A) Mining Engineering
(B) Chemistry and Mineralogy
(C) Mineralogy

3—Post-Graduate Course for the Degree of

Doctor of Science (D.Sc.)
For further information see the calendar of Queen's University.

4—Prospectors' Course

The School offers to Mine Foremen, Assayers, Prospectors and Mining Men generally, Special Courses of Instruction beginning January 9th, 1900, and continuing eight weeks.

NEXT SESSION BEGINS OCTOBER 2nd,

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The School is provided with well equipped Laboratories for the study of Chemical Analysis, Assaying, Blowpiping, Mineralogy, Petrography and Drawing. In the Mining Laboratory the operations of Crushing, Amalgamating, Concentrating, Chlorinating, Cyaniding, etc., can be studied on a large scale.

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ORNAMENTAL and STRUCTURAL MATERIALS in Abundant Variety

The Mining Law gives absolute security to Title, and has been specially framed for the encouragement of Mining.

Mining concessions are divided into three classes:—

1. In unsurveyed territory (*a*) the first class contains 400 acres, (*b*) the second, 200 acres, and (*c*) the third, 100 acres.

2. In surveyed townships the three classes respectively comprise one, two and four lots.

All lands suppose to contain mines or ores belonging to the Crown may be acquired from the Commissioner of Colonization and Mines (*a*) as a mining concession by purchase, or (*b*) be occupied and worked under a mining license.

No sale of mining concessions containing more than 400 acres in superficies can be made by the Commissioner to the same person. The Governor-in-Council may, however, grant a larger extent of territory up to 1,000 acres under special circumstances.

The rates charged and to be paid in full at the time of the purchase are $5 and $10 per acre for mining lands containing the superior metals*; the first named price being for lands situated more than 12

*The superior metals include the ores of gold, silver, lead, copper, nickel, graphite, asbestos, mica, and phosphate of lime. The words inferior metals include all other minerals and ores.

miles and the last named for lands situated less than 12 miles from the railway.

If containing the inferior metal, $2 and $4, according to distance from railway.

Unless stipulated to the contrary in the letters patent in concessions for the mining of superior metals, the purchaser has the right to mine for all metals found therein; in concessions for the mining of the inferior metals, those only may be mined for.

Mining lands are sold on the express condition that the purchaser shall commence *bona fide* to mine within two years from the date of purchase, and shall spend not less than $500 if mining for the superior metals; and not less than $200 if for inferior metals. In default, cancellation of sale of mining land.

(*b*) Licenses may be obtained from the Commissioner on the following terms:—Application for an exploration and prospecting license, if the mine is on private land, $2 for every 100 acres or fraction of 100; if the mine is on Crown lands (1) in unsurveyed territory, $5 for every 100 acres, and (2) in unsurveyed territory, $5 for each square mile, the license to be valid for three months and renewable. The holder of such license may afterwards purchase the mine, paying the prices mentioned.

Licenses for mining are of two kinds: Private lands licenses where the mining rights belong to the Crown, and public lands licenses. These licenses are granted on payment of a fee of $5 and an annual rental of $1 per acre. Each license is granted for 200 acres or less, but not for more; is valid for one year, and is renewable on the same terms as those on which it was originally granted. The Governor-in-Council may at any time require the payment of the royalty in lieu of fees for a mining license and the annual rental—such royalties, unless otherwise determined by letters patent or other title from the Crown, being fixed at a rate not to exceed three per cent. of the value at the mine of the mineral extracted after deducting the cost of mining it.

The fullest information will be cheerfully given on application to

THE HON. THE COMMISSIONER OF COLONIZATION AND MINES,

Parliament Buildings, QUEBEC, P.Q.

NOVA SCOTIA

Coal, Iron, Gold, Copper, Lead, Antimony, Talc, Barytes, Gypsum, Mica, Plumbago, Zinc, Asbestos, etc.

THE partial mineral development already effected in this Province reaches an annual turn-out of nearly FOUR MILLIONS OF DOLLARS, and large tracts of Coal, Iron and Gold bearing lands are yet unoccupied.

Nova Scotia, from its mineral wealth, climate and position, is destined to be the leading manufacturing State on the Atlantic Coast.

The Iron Ores are being utilized for steel.

The Coals furnish excellent Coke. The Gold fields are over THREE THOUSAND square miles in extent, and have hitherto received little attention.

The ores of Iron, Copper, Lead, Silver, Gold, Tin and Coal are held by the Crown, and are granted on easy terms, on long leases from forty to eighty years. The other minerals are granted in fee with the land at nominal rates.

FOR INFORMATION APPLY TO

The Hon. Commissioner of Public Works & Mines

HALIFAX, NOVA SCOTIA.

Ontario's Mineral Lands

The Mineral-Bearing Lands of Ontario extend from the River St. Lawrence, Northward of the Great Lakes, to the Manitoba Boundary beyond Lake of the Woods.

1,200 Miles Long by 100 Miles Wide—120,000 Square Miles—77,000,000 Acres.

These lands lie upon the shores of the Great Lakes for 1,000 miles, and are easily accessible at many points in the interior by railway and water communication. Three-fourths of the territory unexplored.

Among the principal minerals are GOLD, SILVER, NICKEL, COPPER, IRON, APATITE, CORUNDUM, MICA, PLUMBAGO and TALC.

Crown lands are sold at $2.00 to $3.50 per acre, according to location, or they may be leased for ten years at $1.00 per acre for first year and 15 to 30 cents per acre for subsequent years, according to location. At the end of the term of lease the lessee will be entitled to a patent without further payment or working conditions, if rent has been paid and development work done.

In a Mining Division the holder of a miner's license may stake out and work claims of 15 or 20 chains square (22½ and 40 acres respectively), not to exceed four in the same calendar year within a radius of 15 miles, subject to an expenditure for actual mining work of $150 on each claim annually.

In other unsurveyed territory shown to have no value for pine timber, the holder of a prospector's license may stake out two mining locations of 40 acres each in any one calendar year, within a radius of 15 miles, and may hold them for two years subject to an expenditure of $3 per acre in the first year and $7 per acre in the second year for actual mining work, after which he may proceed to acquire the locations in the usual way by survey and payment of purchase money.

A first discoverer of valuable metals, ores or minerals, is entitled to a free grant of one location of 40 acres where the vein or deposit is not less than five miles from the nearest known mine, vein or deposit of the same metal, ore or mineral. Reports and Maps free on application.

For further information address:

HON. J. M. GIBSON,
Commissioner of
Crown Lands,

or

ARCHIBALD BLUE,
Director Bureau of Mines,
TORONTO, ONT.

ESTABLISHED 1882

The CANADIAN MINING REVIEW

Established 1882

The Oldest and Only Official Mining and Engineering Publication in the Dominion of Canada.

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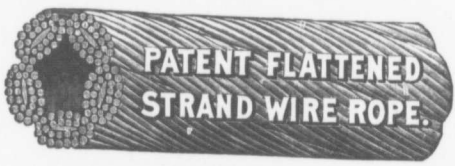

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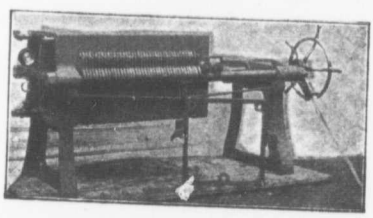

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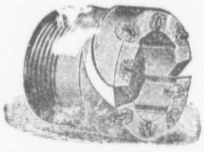

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The Canadian Mining Manual

AND

Mining Companies' Year Book

1899

AN AUTHENTIC DIGEST OF INFORMATION RELATING TO THE HISTORY, ORGANIZATION AND OPERATIONS OF THE COLLIERIES, METAL MINES, BLAST FURNACES AND SMELTING WORKS OF THE DOMINION OF CANADA AND THE COLONY OF NEWFOUNDLAND

COMPILED FROM THE MOST RELIABLE SOURCES

BY

B. T. A. BELL

Editor, Canadian Mining Review; Secretary, Canadian Mining Institute; Hon. Secretary, Mining Society of Nova Scotia; Secretary, General Mining Association of the Province of Quebec, etc.

CANADA AND NEWFOUNDLAND

NINTH YEAR

OTTAWA:
Slater Building, 177 Sparks Street

TN 26
A2
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fol.
1899

49529

NOTICE.

THE CANADIAN MINING MANUAL is compiled and kept posted up from official reports and other equally authoritative sources, and it is requested that Prospectuses, Annual Reports, Statements of Accounts, and other documents bearing upon the scope of the work be promptly mailed to the offices of the CANADIAN MINING REVIEW, Slater Building, Ottawa, Ont.

Managers and Secretaries are respectfully requested to co-operate with the publisher in making the statements respecting the operations of their companies as complete and reliable as possible.

THE CANADIAN MINING MANUAL is published on the 1st of July of each year, and is entered according to Act of the Parliament of Canada, in the year 1891, by B. T. A. Bell, at the Department of Agriculture.

The Mortimer Co Print
Ottawa

STATISTICAL NOTE.

A conservative estimate of the value of the mineral production of the Dominion during the year 1898 would place the amount at a little over $38,000,000, or an increase of quite $10,000,000 over the year 1897. From official returns and other authentic sources, the distribution of this production might be summarized in round figures to have been :

NOVA SCOTIA AND NEW BRUNSWICK.	
Coal, coke, iron and steel, gold, gypsum, building material...	$ 8,000,000
QUEBEC.	
Asbestos, pyrites, slate, mica, phosphate, felspar, gold, silver, lead, zinc, graphite and building materials.....	2,000,000
ONTARIO.	
Petroleum, natural gas, nickel, copper, gold, silver, lead, mica, graphite, salt, structural materials.....	7,201,891
N.W.T. AND MANITOBA (Including Yukon).	
Coal, gold, platinum.....	10,000,000
BRITISH COLUMBIA.	
Gold, copper, silver, lead, coal and coke.....	10,906,861
Or, say a total of.....	$ 38,108,752

The production of gold may be stated to have been :

N. W. Territories (including Yukon).....	$ 8,070,000
British Columbia.....	2,844,563
Nova Scotia	600,000
Ontario.....	275,078
Quebec.....	6,500
Total gold production, 1898.....	$11,796,141

The tonnage of bituminous and anthracite coal, calculated from returns furnished by the various collieries, was as under :

Nova Scotia, bituminous.....	2,300,000	Tons.
New Brunswick "	10,000	"
North West Territory, bituminous.....	315,661	"
" " anthracite.....	23,000	"
British Columbia, bituminous	1,135,869	"
Total output of coal.....	3,784,530	Tons.

The following returns of the iron ore mined and pig iron made have been received from the furnaces :

	Ore Mined. Tons.	Pig Iron Made. Tons.	Steel Made. Tons.
Nova Scotia	31,050*	21,627	25,817
Quebec	14,400*	8,040‡	Not obtained
Ontario	27,409	48,253	Not obtained

*Returns for fiscal year ended 30th September.
‡Charcoal pig iron, net tons.

The production of silver was :

British Columbia	4,292,401 oz. of a value	$ 2,375,841
Ontario	86,600 " "	51,960

Small quantities were also produced in Quebec and Nova Scotia.

The production of copper, from returns published by the various Provincial Governments was :

British Columbia	7,271,678 lbs. of a value of	$874,781
Ontario		268,080

A smaller quantity was also produced in Quebec from the pyrites mined in the Eastern Townships.

Returns of the above, and the other mineral production of the Provinces in 1898 may be gathered from the following summaries published by their respective governments :

British Columbia.

In this Province, as will be seen by a reference to the subjoined comparative statement, there was an increase in the production of gold and copper, while the output of gold was in excess of any previous year. Owing to the low price of silver there was a considerable decrease in the production of silver lead ores.

		1897.		1898.	
		Quantity.	Value.	Quantity.	Value.
Gold, placer	Ounces	25,676	$ 513,520	32,167	$ 643,346
Gold, lode	"	106,141	2,122,820	110,061	2,201,217
Silver	"	5,472,971	3,272,836	4,292,401	2,375,841
Copper	Pounds	5,325,180	266,258	7,271,678	874,781
Lead	"	38,841,135	1,390,517	31,693,559	1,077,581
Coal	Tons, 2,240lb	882,854	2,648,562	1,135,865	3,407,595
Coke	" "	17,832	89,155	35,000	175,000
Other materials			151,600		151,500
			10,455,268		10,906,861

Nova Scotia.

The returns from the Province of Nova Scotia are only for the fiscal year ended 30th September, and are incomplete inasmuch as they do not give the quantities of pig iron and steel made, or complete returns of building materials produced.

		1897.	1898.
Gold	oz	26,579	31,104
Iron ore	tons	44,146	31,050
Manganese ore†	"	100	75
Coal raised†	"	2,320,916	2,281,454
Coke raised†	"	45,000	42,000
Gypsum‡		125,000	131,000
Grindstones, etc℔		32,400	38,000
Limestone†	tons	25,000	24,000

† Ton of 2,240 lbs. ‡ Amount exported. ℔ Value in dollars.

Ontario.

The following figures have been kindly furnished, in advance of his Annual Report, by Mr. A. Blue, Director of Mines for the Province :—

Building and other materials			$2,909,929
Petroleum and its products			1,970,534
Natural gas			301,600
Carbide of calcium*	tons	574	34,440
Salt	"	59,385	278,886
Gypsum	"	3,000	4,000
Graphite	"	300	6,000
Mica	"	34	7,500
Iron ore	"	27,409	48,875
Pig iron	"	48,253	530,789
Nickel	"	2,283¾	514,220
Copper	"	4,186¾	268,080
Gold	oz	16,261	275,078
Silver	"	86,600	51,960

* Net tons of 2,000 lbs.

Quebec.

There is a slight difference in the returns of iron ore, pig iron and mica, published by the provincial government and the figures given to us by the producers and published above :

Charcoal pig iron (long tons)	5,761 $\frac{1668}{2240}$	$116,154
Bog iron ore "	13,363	37,927
Magnetic ore "	22	66
Calcined ochre (tons of 2,000 lb)	1,310	13,100
Chrome iron (long tons)	1,804 $\frac{1700}{2240}$	25,000
Copper pyrites "	35,686	143,884
Blende and galena (long tons)	1,300	21,900
Gold (ounces)	370	6,500
Asbestos (tons of 2,000 lb)	15,893	496,340
Asbestic " "	7,122	14,916
Prepared graphite "	85	8,500
Phosphate "	870	5,975
Mica (thumb trimmed) tons of 2,000 lb	.....	*150,000
Feldspar (tons of 2,000 lb)	2,000	5,000
Sulphate of Baryta (tons of 2,000 lb)	55	275
Slate (tons of 2,000 lb)	3,432	37,374
Flag stones (tons of 2,000 lb)	946	3,580
Cement (barrels)	20,000	32,000
Lime, bushels	1,000,000	140,000
Bricks, thousands; same quantities as last year, approximatively	120,000,000	600,000
Building stones	.....	.....

*Estimated by publisher.

NORTH WEST TERRITORY.

Gold (Yukon) estimated		$8,000,000
Gold, platinum, Saskatchewan		70,000
Coal, bituminous and anthracite	tons	338,661

A YEAR OF PROGRESS.

The year was notable for a marked increase in the number of our dividend paying mines, substantial profits having been realized in all the Provinces by Canadian, British, and American Companies. The introduction of improved processes for the more economical extraction of the precious metals, substantial additions to the gold and silver milling plants, most notably in Nova Scotia, Western Ontario and British Columbia, increased and greatly improved smelting facilities, better methods of mining, more capable management, together with a widespread and rapidly increasing interest in the development of the mineral wealth of the Dominion would indicate that the substantial progress made in 1898 will be maintained during the present year and for many years to come.

The publisher desires again to express his obligation to the official reports published by the Provincial Governments for much of the matter embodied in the present volume, and his best thanks to the secretaries and managers for their uniform courtesy in forwarding particulars of the organization and operations of their companies.

OTTAWA, 21st August, 1899.

CANADIAN STAMP BATTERIES, 1898.

The following is a list of the stamp batteries in operation and in place in the various Provinces of the Dominion :—

PROVINCE OF NOVA SCOTIA.

Company.	District.	No. of Stamps.	Company.	District.	No. of Stamps.
Montreal London	Salmon River.	60	Barrachois M. Co	Wine Harbor.	10
Columbia Co*....	Oldham	10	Napier Co.....	"	8
Modstock Co.....	Stormont.....	10	Tangier G. M. Co	Tangier.....	20
Tudor G. Mg. Co.	Waverley.....	20	Shanghai	Lawrencetown	3
Mackintosh.....	"	10	Lake Eagle.....	Salmon River.	5
Walton & Britton	Kemptville ...	10	Beaver Dam.....	Beaver Dam..	10
Cowan G. Mg. Co	" ...	10	Griffin G. M. Co.	Stormont.....	10
Old Provincial Co	Kellog.....	10	E. S. Sweet *et al.*	"	5
Brookfield Mg. Co	Brookfield	30	Hermitage Co...	"	10
East Mine Co....	"	20	North Star.....	"	10
Free Claim Co...	Renfrew.....	8	McConnell & Co	"	10
Pictou Dev. Co...	"	10	Lincoln Co.....	Gold River...	10
Whiteburn Mg.Co	Whiteburn....	10	T. N. Baker....	" ...	2
Queen's Co.M.Co*	"	10	G. J. Hiseler....	" ...	2
Rossignol Co*....	"	10	Logan & Co....	Montague.....	5
New Egerton Co } Stanley..... }	15 Mile Stream	30	Golden Group Co	"	15
Oldham Gold Co.	Oldham	10	Oland & Co.....	"	10
Bluenose G. M. Co	Sherbrooke ...	20	Hop'w'l G. M. Co	Stormont.....	15
Stellarton.....	" ...	15	Richardson G.M	"	40
N. Glas. G. M. Co.	" ...	10	Owen & Co.....	Leipsigate	5
Crow's Nest M.Co	" ...	20	Casham, Hines..	"	10
Cochrane Hill Co.	" ...	20	Oxford Mg. Co..	Lake Catcha..	10
Sutherland G. Co.	" ...	10	J. H. Anderson.	" ..	10
Touquoy G.M.Co.	Moose River..	15	J. B. Neily & Co	" ..	15
Moose R. G.M.Co	" ..	10	Graves.....	Chezzetcook ..	10
Guffey Jennings†.	Old Caribou...	10	A. C. Cogswell..	Lake Catcha..	10
L. W. Getchell...	" ...	5	Cream Pot G. M.	Cranberry Hd.	2
Withrow & Co...	South Uniacke	10	Carleton.....	Carleton.....	10
Thomps'n & Quirk	"	5	Hur'icane Pt. G M	Stormont.....	10
C.P.F. Mg. Assn.	Mount Uniacke	10	C'ntry Hr. G.M.	"	20
H. Archibald & Co	"	15	John Yorston ..	Ecum Secum..	10
Eureka.....	Stormont.....	5	H. S. McKay...	Malaga Bar'ens	10
Economy Mg. Co.	"	10	Parker Doug. Co.	"	20
			Malaga M. Co...	"	20
				Total Stamps.	850

* Not in operation.

† A new mill of 60 stamps to be installed in 1899.

STAMP BATTERIES—Continued.

Province of Ontario.			Province of British Columbia.		
Company.	District.	No. of Stamps	Company.	District.	No. of Stamps
Sultana	Lk.of the Wds.	30	Cariboo	Cp. McKinney	20
Regina	"	40	Horsefly	Cariboo	10
Mikado	"	20	Fern	Hall Siding	10
Foley	Rainy River	20	Nelson Poormau	Nelson	10
Saw Bill	"	10	Dorotha Morton	Phillips Arm	10
Dom. G. M. & R.	Lk.of the Wds.	20	Athabasca	near Nelson	10
Lucky Coon	Rainy River	5	Island Mountain	Cariboo	10
Ham. Reef Con.	"	40	Smuggler G. M.	Fairview	10
Golden Star	"	10	Bend 'Or Mines.	Bridge Riv.B.C	10
Olive	"	25	Oro Fino	Fairview	3
Crystal	Wahnapitae	5	Duncan	Nelson	20
Empress	Jackfish	10	Golden Cache	Cayoosh Crk	10
Ottawa G. M. & M	Keewatin	20	Stratheyre	Fairview	10
Lake Harold	Rainy River	5	Tin Horn	"	10
Triumph	Lk.of the Wds.	4	Fire Mountain	"	10
Barker Bros	Manitou	10	Minnehaha	Cp. McKinney	10
Cordova Explor.	Hastings Co.	10	Ymir Gold Mine	Ymir	40
W. End Silver Mt	Silver Mt	10	Can. Pacific Exp	Ymir	10
Canadian G. F.	Hastings Co.	10	Oro Mining & M	Oro	10
J. Sykes M. & M	Wabigoon	10			
Lake Manitou G.	Bonheur	10	Total Stamps in British Col.		233
A. D. 2 Mining.	Rainy River	10			
Am.-Canadian G.	"	10			
Total Stamps in Ontario		344			

Province of Quebec.

North American Graphite Co., Buckingham	10
Walker Mining Co., Buckingham	10
	20

The Canadian Mining Manual and Mining Investor's Year Book.

1899

AARON'S ROD MINING AND DEVELOPMENT CO., Limited.

Incorporated 1897. Authorized Capital, $1,000,000.

Officers:

Fred. Williamson, President.
F. Stevenson, Vice-President. | George Doyle, Manager.
P. E. Wilson, Secretary-Treasurer.

CANADIAN OFFICE:
Nelson, B.C.

Owns and is developing three Galena claims known as the "White Swan," "Golden West," and "Invincible," on Columbia River. Workings at date of report comprise shaft 40 feet and cross-cut tunnel 400 feet.

ABBOTSFORD GOLD MINING COMPANY, Limited.

Incorporated 23rd April, 1898. Authorized Capital, $1,000,000, in shares of $1.

Officers.

Arthur Marsh, President. | H. W. Fellowes, Vice-President.
Edward Baillie, Secretary-Treasurer.

CANADIAN OFFICE:
Rossland, B.C.

Owns and is developing the "Diamond Dust" and "Noonday" claims, 1½ miles from Rossland, British Columbia.

ABE LINCOLN GOLD MINING CO., Limited.

Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Directors:

Frank Guse, R. Dalby Morkill, W. T. McDonald.

Head Office: W. T. McDonald, Mine Superintendent, Rossland, B.C.

Owns the Abe Lincoln mineral claim in the Trail Mining Division of British Columbia. Opened by shaft down at date of report 198 feet with a cross-cut of 18 feet. Five stringers of pay ore have been found in the workings. Small force employed.

ACADIA COAL CO., Limited.

Incorporated by Act of the Legislature of Nova Scotia. Authorized Capital, $4,000,000; $3,846,100 issued unassessable. No bonds or mortgages.

Directors:

H. Montagu Allan, President, Montreal.

Bryce J. Allan,
H. Montagu Allan,
Hugh Andrew Allan,
Thomas H. Hubbard,
Johnston Livingston,
J. Pierpont Morgan, Jr.,
Edwards S. Sandford,
George G. Ward.

Head Office: Henry S. Poole, A.R.S.M., F.G.S., General Manager, Stellarton, N.S. J. George Rutherford, M.E., Asst. General Manager.

Formed to acquire and work coal areas in Pictou county and elsewhere in the Province of Nova Scotia.

Acadia Colliery, at Westville, 3 miles from Stellarton. Mine Manager, James Maxwell; Overman: J. Patton.

Seam of 10 ft. worked: dip averages 27 degrees; slope, 4,200 ft.; extreme vertical depth, 1,800 ft.

System of working: in lifts of 300 ft., longwall with timber packs 5 ft. square.

Ventilation by fan, 24 ft. by 8 ft., iron casing; engine 20 in. by 20 in. cut-off; 3 in. water-gauge, barometer, etc.; Liveing's gas indicator.

Lamps—Mueseler and Marsaut.

Hoisting engines on slope, pair 32 in. cyl., 60 in. stroke direct; drum 10 ft.

Pumping—Duplex compound condensing, 22 by 11 in. x 24 in.; rams 5.5 in.; column length, 2,400 ft.; vertical head, 990 ft.; wrought pipe tarred 6 in. upset ends vanishing threads, metal flanges, no leaks; steam pressure on top,

ACADIA COAL CO.—Continued.

105 lbs., pipe 4 in. covered; air feeder added to air chamber. Auxiliary direct acting 11 x 12 in. x 4 in. pump driven by compressed air, at bottom of pit head 600 ft.

Two air compressors, 16 in. and 20 in. with receivers at bank and in pit; air pipe, 4 in., length, 4,000 ft.

Boilers—Water-tube; fuel, culm.

Screens, double—Primary 2 in.; secondary ¾ in. apart, curved; 5 sizes of coal; elevator, picking table, shaking screens.

Albion Colliery, at Stellarton on I. C. Railway; J. Dunbar, Manager; A. McDonald, Overman. Railway second built in America; locomotives include "Sampson," built in 1838 (since sold); main seam, 38 ft. thick; 148 ft lower, deep seam, 22 ft. thick; Foord pit, vertical, 900 ft. deep; sunk to main seam; scene of explosion in 1880; loss of life, 44; workings now full of water; machinery massive; hoisting engine, 38 in. cyls. 5 ft. stroke, 18 ft. dia. drum; Cornish pumps, 62 in. cyl, 9 ft. stroke; beam 34 ft. long, 7 ft. deep in the middle; weight, 18 tons; working barrel, 18 in. dia.; pit head frame 50 feet high; independent condenser on hoisting engine. Fire has been in the old rise workings for 25 years.

Air-compressors in course of erection at time of explosion, and now not in use; steam cyls., 36 in.; dia, do., 40 in.; stroke 6 ft.; fly wheel, 22 ft. dia.; weight, 20 tons; present workings in lower seams; capacity 1,000 tons per diem; ventilation by fans, the latter 30 ft dia. by 10 ft wide; a new fan in course of erection at the third seam 18 ft., high speed, rope driven with compound engines; lamps, Mueseler: coal used for coking purposes; 125 ovens; bee-hive, 10 ft. dia.; average pitch of seam, 22 degrees.

Vale Colliery, 6 miles east of New Glasgow.

Six ft. seam; slope, 2,400 ft; cutcrop for 500 ft. left unworked; a new winning ventilated by compression fan, 16 ft. x 6 ft.; engine, 10 in. by 16 in.

PRODUCTION, 1898.

	Tons.
Total coal raised	203,613
Total coal sold	176,135
Total coke made	2,909 15 20/28 40
Total coke sold	2,776 14 14/28 40

LABOR, 1898.

Above ground	205
Below ground	478
Total	683

ACADIA COAL CO. LIMITED—Continued.

COAL DISPOSALS, 1891-98.

(As per Returns Furnished by the Company.)

DISTRIBUTION.	1891.	1892.	1893.	1894.
Nova Scotia	171,806	123,797	178,429	126,836
Prince Edward Island	33,577	21,354	24,500	25,950
Quebec	9,459	4,822	9,557	5,129
New Brunswick	18,885	16,268	19,329	7,199
Newfoundland	46	.....	.....	.....
United States	.....	.....	.....	.....
Other Countries	.....	.....	.....	270
St. Pierre Miquelon	.....	.....	.....	144
Colliery Employees	6,118	5,496	5,803	5,514
Bunker Steamers	15,250	7,662	12,954	.....
Engines and Coke Ovens	.....	73,142	22,634	55,400
	255,231	252,541	273,206	226,442

COAL DISPOSALS, 1891-98.—*(Continued).*

DISTRIBUTION.	1895.	1896.	1897.	1898.
Nova Scotia	113,674	121,220	136,942	130,079
Prince Edward Island	18,916	23,540	25,472	21,262
Quebec	3,152	1,020	4,658	4,347
New Brunswick	6,242	4,214	13,172	10,372
Newfoundland	92	138	181	.....
Colliery Employees	5,243	6,065	5,191	4,516
Bunker Steamers	7,427	12,750	6,103	4,570
Engines and Coke Ovens	48,458	29,059	28,405	*31,503
Total Tons	203,204	198,006	220,124	206,649

*Engines, 25,998; Coke Ovens, 5,505.

ACME GOLD MINING COMPANY, Limited.

Registered in British Columbia, 4th January, 1896. Authorized Capital, $600,000, in Shares of $1.00.

Officers:

E. L. Tate, President. | W. C. Drury, Secretary.

Head Office: Spokane, Wash. Canadian Office: J. C. Haas, M.E., Greenwood, B.C.

No information as to working.

ADAMANT MANUFACTURING CO. OF AMERICA, Limited.

Authorized Capital, $500,000.

Officers:

E. W. Parmalee, President.

G. G. Rustan, Secretary-Treasurer. C. G. Root, Vice-President.

Head Office: 309 East Genesee St., Syracuse, N.Y.

Owns and works for Gypsum, an area comprising 65 acres at North Cayuga, in the County of Haldimand, Province of Ontario. Works at Syracuse, N.Y., are supplied with Gypsum chiefly obtained from Nova Scotia and New Brunswick.

ADAMS BRITISH COLUMBIA CO., Limited.

Registered in 1897. Authorized Capital, £100,000, in shares of £1; 10,595 shares have been issued and 10 shillings per share called up. 5,000 shares were privately offered for subscription in May, 1897, payable 5 shillings on application, 5 shillings on allotment and the balance as required.

Directors:

Wilberforce Bryant. | Capt. R. C. Adams.
G. D. Jennings. | F. W. Baker.
W. C. Houstoun.

Head Office:

Frank P. Robbidge, Secretary, 32 Poultry, London, E.C.

CANADIAN OFFICE:

Manager, Capt. R. C. Adams, Midway, B.C.

Assist. Manager, Walter C. Adams, M.E., Sandon, B.C.

Formed to acquire and work the following mineral claims: Skylark, on Kootenay Lake, near Ainsworth; Bon Ton, Jackson Creek Basin, 16 miles west of Kaslo; Mount Adams Group, North Fork of Adams River; Cordick, Boundary Creek; and the Divide Group, near Osoyoos Lake, in the Okanagan division, Yale district, British Columbia.

The work has been mainly done upon the Mount Adams Group, on which some 1,500 feet of tunnels have been run, with winzes and upraises. A cousiderable amount of concentrating galena ore has been exposed, the concentrates averaging 125 ozs. silver and 75 per cent. lead per ton.

ADAMS MINING COMPANY, Limited.

Registered in British Columbia, 20th March, 1897. Authorized Capital, $1,000,000, in shares of $1.00.

Trustees:

J. D. Farrel, | E. J. Bowman, | P. J. Hickey.

Head Office: Sandon, B.C.

THE A. D. 2 MINING CO, OF ONTARIO.

Incorporated 1897. Authorized Capital, $500,000, in shares of $1.00 each.

Directors:

W. Fawcett, Duluth. | J. Handlan, Wheeling, Va.
P. Leavin, Duluth. | J. Green, Port Arthur, Ont.
W. Butchart, Duluth.

Mine Office: John Campbell, Superintendent, Mine Centre, Ont.

Formed to carry on in all its branches the business of a mining, milling, reduction and development company. Owns and is developing the A. D. II mineral claim in the Rainy River District, Province of Ontario.

ADVENTURERS OF BRITISH COLUMBIA, Limited.

Registered at Somerset House, London, 30th April, 1897. Authorized Capital, £25,000, in shares of £1.

Directors:

G. F. Tadenor. | Temple Godman. | Horace J. Neville.

Head Office: W. P. Owen, 3, 4 and 5 Queen St., London, E.C.

Canadian Agents: Applethwaite & Co., Nelson, B.C.

Formed to carry into effect an agreement with H. A. Newton, to acquire options over mining properties in British Columbia, and to promote companies.

AFRICAN BRITISH COLUMBIA CORPORATION, Limited.

Registered 16th August, 1897. Authorized Capital, £200,000, in shares of £1 each, and 300 founders' shares of £1 each. The founders' shares are entitled to one quarter of the surplus profits after a dividend of 25 per cent. per annum has been paid on the ordinary shares; also to one quarter of the assets in the event of winding up.

Head Office: Arthur B. Atkinson, 39 Bishopsgate St. Within, London, E.C.

Formed to acquire from the Transvaal Goldfields, Limited, three mining claims in British Columbia, known as Riverside, in Fairview Camp, Lake View, in the Osoyoos Division, and Emerald in the Kootenay District. The vendors were to receive 22,500 ordinary and 300 founders' shares fully paid.

AGNES HYDRAULIC MINING AND MILLING CO., Limited.

Incorporated 1896. Authorized Capital, $200,000, in shares of $1.00.

Directors:

Capt. M. Neelin Garland. | John Lyons. | John H. Lyons.

Head Office: Capt. M. N. Garland, North Bend, B.C.

Owns and operates three auriferous gravel deposits comprising 50 acres, two of which are situated on the west side of the Fraser River, and are a portion of the celebrated Boston Bar Flat, and lie within half a mile of North Bend station on the main line of the Canadian Pacific Railway; the other is situate three and a-half miles north on the east side. The benches average 125 feet above medium high water level, some running 200 feet. Tests of the gravel on the two first-mentioned properties show an average of 25 cents per cubic yard; on the other property an average of 35 cents per cubic yard is reported. Being opened.

AJAX MINING AND DEVELOPMENT CO., Limited.

Incorporated 21st June, 1898. Authorized Capital, $500,000, in shares of $1.

Head Office: A. W. Wright, Sandon, B.C.

Formed to acquire and work mines and mineral property in British Columbia. Owns and operates the Ajax group of claims, comprising the "Ajax," "Random Shot," "Crown Point," and "Ajax Fraction," situated 3 miles from the town of Cody. Prior to the formation of the present company these claims are reported to have shipped ore to the value of $30,000. Small force employed. 1,500 feet of tunnelling.

AINSWORTH MINING & SMELTING CO., Limited.

Authorized Capital, $1,000,000, in shares of $1 00.

Officers :

W. A. Cheney, Los Angles, Cal., President.
C. A. Riddle, Vice-President. | George F. Fay, Secretary.

Head Office : 416 Bailey Building, Seattle, Wash.

Owns and is developing the "Star" mineral claim, 1¼ miles east of the town of Ainsworth, British Columbia.

ALABAMA HYDRAULIC MINING COMPANY.

Organized 1878.

Head Office : H. E. Flynn, Barkerville, B.C.

Owns and operates a mineral claim containing five acres on Mosquito Creek, in the Cariboo District, Province of British Columbia The property is reported under option to an English Company.

ALABASTINE COMPANY, Limited.

Incorporated 1885. Authorized Capital, $50,000, in shares of $100, of which to date, $34,000 have been subscribed and paid up.

Directors :

M. B. Church, Grand Rapids, Mich. | A. B. Knowlson, Grand Rapids, Mich.
David S. Hopkins, " " | John Kay, Paris, Ont.
J. M. Wheeler, Paris, Ont. | R. E. Haire, Paris, Ont.

Head Office : J. M. Wheeler, Secretary, Paris, Ont.

Owns and operates extensive white rock Gypsum quarries in the County of Haldimand, Ont., and owns and operates works in Paris, Brant County. Estimated value of machinery plant and buildings owned by the company, $15,750.

ALBERNI GOLD DEVELOPMENT SYNDICATE, Limited.

Registered 19th June, 1897. Authorized Capital, £15,000, in shares of £10.

Directors:

F. J. Abbott, J. Armstrong, | F. J. Abbott, jr., W. H. Bambridge.

Head Office: 24 James St., Liverpool, England.

Formed to acquire four claims known as "Eureka," "Dandy," "Bullion" and "Union Jack," all situated in the District of Alberni, in the Island of Vancouver, British Columbia. The purchase consideration was £7,000, payable in 700 fully paid shares. The Syndicate has since acquired the Regina group of nine claims, Green Mountain group of seven claims, Monarch group of four claims, Mountain Daisy group of five claims, and others; also "Cataract," "Pahtlpahtlicant," and "Constance" hydraulic claims, each 1½ miles long by 20 chains broad, all in the Districts of Alberni and Clayoquet, Vancouver Island, British Columbia.

ALBERTA AND KOOTENAY DEVELOPMENT CO., Limited.

Registered 6th February, 1897. Authorized Capital, $500,000, in shares of $1.

Directors:

W. C. Wells, Dr. R. G. Brett, G. Erickson, George S. McCarter, Dr. N. J. Lindsay, Thos. McNaught, W. Coepman, J. F. Betts, J. Cardell, Dr. W. B. Lindsay, W. G. Neilson.

Head Office: Golden, B.C.

Owns and is developing the "Mabel," "Doctor," and "Lawrie" mineral claims on Copper Creek, Golden Mining Division of British Columbia.

ALBERTA GOLD MINING COMPANY, Limited.

Re-Registered in British Columbia, 1st October, 1896. Authorized Capital, $1,000,000, in shares of $1.00.

Officers:

Daniel M Drumhaller, President.

W. H. Smiley, Secretary-Treasurer. Roy H. Clark, Superintendent.

Head Office: Rossland, B.C.

Owns and is developing the Alberta mineral claims, situated on Columbia and Kootenay Mountains, 1½ miles north-west of the City of Rossland, British Columbia.

ALBERTA RAILWAY AND COAL COMPANY, Limited.

Incorporated 20th January, 1889.

Authorized Capital :

4% Prior lien debenture stock	£125,000
4% A debenture stock.....	250,000
5% B debenture stock	750,000
Total.....	£1,125,000
Preference shares.....	$1,000,000
Ordinary shares.....	100,000

(The capital issues of the Company were re-arranged by Act of Parliament in 1895.

Directors :

Elliott T. Galt, President, Lethbridge, N.W.T.

Col. R. R. B. Wodehouse, Vice-President, London, Eng.
W. Burdett-Coutts, M.P., London, Eng.
Edward Crabb, London, Eng.
Hon. T. C. Farrer, London, Eng.
Edwin Waterhouse, "
W. M. Ramsay, Montreal, Canada.
H. Joseph, "

Sir R. W. Cameron, New York, U.S.A.

CANADIAN OFFICE :

Elliott T. Galt, President, Lethbridge, N.W.T. ; W. D. Barclay, Manager ; W. D. L. Hardie, Colliery Supt. ; C. A. Magrath, Land Commissioner ; J. E. Lethbridge, Auditor,

Head Office :

Geo. Edwards, Secretary, 37, Old Jewry, London, Eng.

Formed to take over and control the lands, works, mines and railways formerly owned and operated by the North-Western Coal and Navigation Co., Ltd.

The Company owns the railway from Lethbridge to Great Falls, Montana, U S.A., 200 miles in length, 3 feet gauge, equipped with 21 locomotives and 402 cars.

The railway from Lethbridge to Dunmore, 110 miles in length, likewise narrow gauge, was changed to standard gauge during the summer of 1893 and sold to the C.P.R., and is now being operated as a portion of that Company's system.

ALBERTA RY. AND COAL CO. LIMITED—Continued

The Company owns the Lethbridge Collieries at Lethbridge, in the District of Alberta, N.W.T. The workings consist of three shafts, sunk from the level of the prairie to the coal, a distance of about 300 feet, and situated about half a mile from each other.

The system of mining the coal is that known as "pillar and stall," and consists of double entries, each 6 ft. wide, driven parallel, with a pillar of coal of not less than 30 ft. between. Every 400 ft. a new pair of entries are extended into the coal parallel to the first pair, and along each individual entry a room is turned off every 34 ft., and driven at right angles to and in the opposite direction from the adjoining entry. At a distance of 30 ft. the room is opened out to a width of about 20 ft., and continued into the coal until it reaches its maximum depth from the entry, viz., 200 ft., there meeting a room which has been taken a similar depth from the next pair of entries, either above or below, as the case may be. After carrying rooms to their full depth, the miner returns, withdrawing the pillar between his and the adjoining room. There are practically two seams of coal worked. These are separated by a parting of fireclay, varying from one to two inches. The lower bench coal has a thickness of 2 ft. 8 in., while the upper bench is 1 ft. 10 in

The mode of ventilation is by means of two Murphy fans, 6 ft. in diameter. These fans will either exhaust the air from the shaft or force it down, as required by the state of the weather. The reversing of the current of air is made by opening or closing certain openings. The speed of the fans is usually about 300 revolutions per minute. The winding engines for these shafts are two 20-in. cylinders, direct acting, on a spirally grooved drum and excellent brake connection. The pit head frame, screening and general arrangements are of the most modern type, including a safety clutch on the cage, so that if the wire rope was to break, the cage would only descend a few yards until the clutch acted on the guides of the cage, stopping any further descent.

The Company have recently introduced coal cutting machines in their No. 3 shaft, consisting of fourteen Sergeant and eight Legg coal cutting machines; two compressors, 20 x 24 cylinders.

The workings are sufficiently developed to permit the present output of 1,000 tons daily to be increased on the shortest notice to 1,500 tons.

The output of coal in 1885 was 22,000 tons; in 1895, 110,522 tons; in 1896, 116,511 tons; 1897, 120,049 tons; 1898, 168,260 tons.

The Company has extensive machine shops, equipped with machinery suitable for all classes of repairs.

The acquirement and development of the properties has caused an expenditure of about $5,000,000 and in the services of the Company there are on the average about 800 men employed, for whose accommodation the Company has erected dwellings.

ALBERTA RY. AND COAL CO. LIMITED—Continued.

The Company markets its coal at no less than 193 points in Manitoba, the Canadian North-West, British Columbia and in the States of Montana and Washington in the United States of America, the most distant selling point being 830 miles from Lethbridge.

The analysis of Galt coal is:—Carbon, 56.20; ash, 6.40; water, 4.90; volatile matter, 32.40.

The Company's landed estate consists of 1,100,000 acres of farm and ranching land, situated in alternate townships in the District of Alberta, N.W.T. Of this, 750,000 acres have been transferred to the Lethbridge Land Company, an affiliated Company, formed to improve, colonize and dispose of them.

Another Company, of which Mr. E. T. Galt is the President, has recently been formed to acquire a large portion of these lands and bring them under cultivation by means of irrigation. Construction of about 100 miles of canal, with intake on the St. Mary's River, is now being actively prosecuted and it is expected that this work will be completed by the end of the present year.

ALBERT MANUFACTURING COMPANY, Limited.

Incorporated 1854. Authorized Capital, $350,000.

Directors:

Rutledge Odell. | J. T. Tomkins. | Walter Tomkins.
Calvin Tomkins. | C. J. Osman.

Head Office: C. J. Osman, Superintendent, Hillsborough, N.B.

Owns and operates four gypsum quarries and a plaster mill at Hillsborough, in Albert County, New Brunswick. In 1896 the shipment of rock plaster amounted to 59,265 tons, while 8,745 tons were manufactured in 61,220 barrels of calcined plaster, land plaster and terra alba; 1897, practically the same as in 1896; in 1898, 62,800 tons shipped and 9,130 tons manufactured. 185 persons employed.

ALBION MINING COMPANY, Limited.

Registered 4th April, 1898. Authorized Capital $1,000,000, in shares of a par value of $1.00.

Head Office: Spokane, Wash.

Canadian Office: H. Geigerich, Ainsworth, B.C.

Owns and is developing the Albion mineral claim on Woodbury Creek, Ainsworth Mining Division, B.C.

ALEXANDRIA COLLIERY.

Owners:

Messrs. R. Dunsmuir & Sons.

Mine Office: John Dick, Superintendent, Cranberry District, near Nanaimo, B.C.

This colliery is situated on Vancouver Island, British Columbia, in the Cranberry District, about five miles south of Nanaimo, and is opened by slope, driven, about 18 years ago, for a distance of 800 yards, when the work was abandoned. In 1896 work was resumed by driving a tunnel off the slope, in a northerly direction, likewise for a distance of 800 yards. The seam is irregular, in thickness varying from 3 ft. to 18 ft. A 11 x 5 Guibal fan is in use and gives a circulation of 39,300 cubic feet of air per minute. A small pump relieves the mine of the water made. A good hoisting engine and substantial slope-head works have been erected, the latter connected by the E. & N. Railway by which the coal is shipped to Victoria and Wellington. Output in 1898, 45,560 tons. System of working pillar and stall.

ALF GOLD MINING COMPANY, Limited.

Registered in British Columbia in 1896. Authorized Capital, $1,000,000, in shares of $1.00, of which 250,000 shares were set aside for working capital. In September, 1897, subscriptions were privately invited by the London agents for 50,000 fully paid shares at 3 shillings each, payable in full on application.

Officers:

Lloyd Harris, President.

W. G. Elliott, Vice-President. W. E. Phinn, Secretary-Treasurer.

CANADIAN OFFICE:

W. E. Phinn, Secretary-Treasurer, Rossland, B.C.

ENGLISH AGENTS:

Mining, Finance Syndicate, Limited., Broad St. House, London, E.C.

Formed to acquire and work a property comprising 38 acres, in the Trail Creek Division of British Columbia. Three additional properties have since been acquired.

ALGONQUIN CONSOLIDATED MINING AND DEVELOPMENT COMPANY.

Incorporated 1897. Authorized Capital, $1,000,000, in shares of $1.00.

Directors:

Hon. T. M. Daly, A. C. Galt, J. M. Clark, F. A. Brown.

Head Office: Rossland, B.C.

Formed to acquire and work the "Algonquin," "Calumet," "Geogebic," "Buck Horn," Red Jacket," "Hermit," "Hottentot," "Golden West," "Bryan," "Lallah Rooke," including fraction "Keewaydin," "Tartar," "Oberon," "Monarch," "Mirror," "Iroquois," "Artic," Allan Bane," and "Roderick Dhu" mineral claims, situated at or near Christina Lake, in the Trail Creek District, British Columbia.

THE ALGONQUIN GOLD MINING & DEVELOPMENT CO., Limited.

Incorporated 1897. Authorized Capital, $1,000,000, in shares of $1.00 each.

Directors:

J. C. Hegler, Ingersoll, Ont. | H. V. Altshul, New York, N. Y.
W. Ewart, Ingersoll, Ont. | F. J. Howell, Hamilton, Ont.
C. C. L. Wilson, Ingersoll, Ont. | P. D. Carse, Hamilton, Ont.
J. A. Richardson, Ingersoll, Ont. | R. D. McDonald, London, Ont.
O. E. Robinson, Ingersoll, Ont. | T. B. Uren, London, Ont.
Dr. J. M. Rogers, Ingersoll, Ont.

Head Office: Ingersoll, Ont:

Formed to carry on in all its branches the business of a mining, milling, reduction and development company.

ALKI GOLD MINING COMPANY.

Authorized Capital, $750,000, in shares of a value of $100.00.

Directors:

J. J. Anderson, | S. C. Walker, | P. B. Swearingen,
L. F. Homes, | R. G. Hudson.

Head Office: Tacoma, Wash.

ALKI GOLD MINING CO.—Continued.

Canadian Office: Rossland, B.C.

Owns and operates the "Alki" mineral claim at Rossland, British Columbia. At date of report opened by two shafts down 78 feet and 39 feet respectively. The management state: "One vein runs from N.E. to S.W. for 1,500 feet through the entire property, and another vein running north and south about 800 feet. In the 39 ft. shaft the ore body is about four feet wide and in the 78 ft. shaft it is fully five feet wide at the bottom."

ALLAN GOLD REEFS COMPANY OF ONTARIO, Limited.

Incorporated subject to the provisions of the Ontario Mining Companies Incorporation Act, 18th March, 1899. Authorized Capital, $40,000, in shares of $1.00.

Directors:

H. K. Egan, Ottawa. W. G. Allan, Ottawa. S. H. Fleming, Ottawa.

Head Office: Victoria Chambers, Ottawa, Ont.

Formed to carry on mining in Ontario. The property of the Company is situated in the Lake of the Woods District, Province of Ontario.

ALLIANCE PROSPECTING SYNDICATE OF B.C., Limited.

Registered 17th June, 1896. Authorized Capital, $100,000, in shares of $500.

Directors:

H. Bell Irving, | Duncan Bell Irving, | Henry Cline.

Head Office: Vancouver, B.C.; Local Manager, Bruno Thomas, Silverton, B.C.

ALLISON RANCH HYDRAULIC MINING CO., Limited.

Incorporated 1896. Authorized Capital, $250,000, in shares of $5.00.

Directors:

Lieut.-Col. T. O. Townley, Vancouver, B.C., President.
John B. Laidlaw, Toronto. F. J. Coulthardt, New Westminster, B.C.
Henry Doyle, Vancouver. Charles R. Townley, Vancouver.
Joseph E. Gaynor, New Wesminster, B.C.

Eastern Board of Directors:

John B. Laidlaw. | J. H. Chewett. | Hillyard C. Dixon.

ALLISON RANCH HYDRAULIC MINING CO. LIMITED—Continued.

Head Office : Fred. J. Coulthardt, Secretary-Treasurer, New Westminster.

Formed to acquire and work mining claims in the Similkameen division of the Yale district, in the Province of British Columbia, consisting of gold and platinum bearing gravels, extending for two miles along the north side of the Tulameen River, at the junction with the Similkameen River at Princeton.

1st. All that piece of ground situate at Princeton, B.C., and commencing at a post about 100 yards north of J. F. Allison's house ; thence south 40 chains; thence west 40 chains; thence north 40 chains ; thence east 40 chains to the point of commencement, and containing 160 acres, and known as claim No. 1.

2nd. All that piece of ground situate on the Tulameen River commencing at a stake placed at the south-east corner of Claim No. 1 : thence south 40 chains ; thence west 40 chains ; thence north 40 chains ; thence east 40 chains to the point of commencement, and containing 160 acres, and known as Claim No. 2.

3rd. All that piece of ground commencing at the south-east corner of Claim No. 2 ; thence south 40 chains ; thence west 40 chains ; thence north 40 chains ; thence east 40 chains to the point of commencement, and containing 160 acres, and known as Claim No. 3.

4th. All that piece of ground commencing at the south-east corner of Claim No. 3 ; thence south 40 chains ; thence west 40 chains ; thence north 40 chains; thence east 40 chains to the point of commencement, and containing 160 acres, and known as Claim No. 4.

The gravel deposits consist of three benches, of the varying height of 57 feet, 133 feet, and 192 feet to 250 feet ; these benches being half-a-mile wide, and extending two miles along the Tulameen River. Tests of the gravel are reported to show an average of 16¾ cents per cubic yard of loose gravel, exclusive of the "pay gravel," which usually exists on bedrock property.

ALPHA BELL GOLD QUARTZ MINING CO., Limited.

Registered 14th December, 1896. Authorized Capital, $500,000, in shares of $1.00.

Officers :

George E. Bower, President.
J. Barnet MacLaren, Vice-President. | H. DePencier, Secretary-Treasurer.

Head Office : 11 Inns of Court, Vancouver, B.C.

The Company owns the "Alpha Bell Fraction," "Moonlight Fraction," "Surprise," and "Omega Fraction" mineral claims, on Cayoosh Creek, Lillooet, B.C.

ALPHA MINE.

Owners:

Alexander McKenzie, James McNaught, | A. C. Hansborough, N. F. McNaught.

Head Office: N. F. McNaught, Manager, Silverton, B.C.

The property comprises two claims, the "Alpha" and "Anacortes," situated on the south slope of Silver Mountain, 2½ miles from the town of Silverton, British Columbia. The property has been closed down for several years.

ALWILDA GOLD MINING & DEVELOPMENT CO., Limited.

Incorporated 27th February, 1897, and re-registered 28th December, 1897.

Authorized Capital, $900,000, in shares of $1.00.

Officers:

Dr. T. H. Little, Toronto, President.
H. F. Arnold, Rossland, Vice-President. E. C. A. Sutton, Detroit.
J. W. Thornton, Rossland, Manager. R. McGregor, Secretary-Treasurer.

Head Office: Rossland, B.C.

Owns and is developing the "Alwilda" claim, on Green Mountain, 7 miles north of the City of Rossland, B.C.

AMAZON GOLD MINING & MILLING CO., Limited.

Incorporated 1897. Authorized Capital, $1,000,000.

Directors:

R. O'Brien. | J. W. Lee. | C. Frey.

Head Office: Rossland, B.C.

Formed to acquire the "Aurora," "Webfoot," and "Third Day" mineral claims, Trail Creek District, British Columbia.

AMBROSE MINE & DEVELOPMENT CO. OF ONTARIO, Limited.

Incorporated 1897. Authorized Capital, $1,000,000, in shares of $1.00 each.

Directors:

S. C. Wood, Toronto, Ont.
P. McLean Campbell, Collingwood, Ont.
C. Cameron, Collingwood, Ont.
F. A. E. Cott, New York, N.Y.
Louis Walsh, Port Arthur, Ont.

Head Office: L. Walsh, Port Arthur, Ont.

Formed to carry on in all its branches the business of a mining, milling, reduction and development company.

AMERICAN BOY MINING & MILLING CO.

Incorporated January, 1897, and Registered in British Columbia.

Authorized Capital, $1,000,000, in shares of $1.00.

Directors:

S. Haas, H. Callaghan, E. Denzel, John J. McGuigan.

Officers:

H. Haas, President, Spokane, Wash.
H. Callaghan, Vice-President and Manager, Spokane.
E. Denzel, Secretary and Treasurer, Spokane.
John J. McGuigan, Sandon, B.C. | Thos. McGuigan, Sandon, B.C.
Adolph Hunter, Spokane.

Head Office: 25-26 Jamieson Building, Spokane, Wash.

Canadian Office: Sandon, B.C.

The property comprises two full and one fractional mineral claims, the "American Boy," "Black Hawk," and "Frank Fraction" situated on Noble Five Mountain, in Slocan Mining District, one mile above Cody, on the Kaslo and Slocan Railway, and about two miles and a quarter from Sandon, British Columbia. The property is opened by five tunnels in 300 feet, 700 feet, 80 feet, 275 feet and 100 feet respectively. The output from development work was, at date of report, 350 tons of an average value of $100 per ton. Mineral worked, silver and lead.

AMERICAN-CANADIAN GOLD MINING CO.

Incorporated under the laws of the State of Wisconsin.

Capital Stock, $1,200,000.

Officers:

J. S. Hillyer, President. George H. Hillyer, Vice-President.
H. C. Clark, Secretary. Dr. Carroll Corson, Treasurer.

Directors:

J. S. Hillyer, George H. Hillyer, Dr. Carroll Corson, John M. Gray, M. A. Murphy, A. C. Clark, George E. Morrison.

Head Office: 221-224 Keystone Block, West Superior, Wis.

Chicago Office: 751 Marquette Building.

Mine Office: George L. Robbins, Mine Superintendent, Mine Centre, Ont.

Owns and is developing mining Locations K 191 and F F 78 known as the "Alice A," situated between the Little Turtle River and Wild Potatoe Lake, N. E. of Mine Centre, Seine River District, Province of Ontario. At date of report, about 100 feet of sinking and 100 feet of cross-cutting had been done on the property, and negotiations were proceeding for the purchase of a battery of large stamping capacity.

AMHERST PROSPECTING & MINING CO., Limited.

Incorporated 16th May, 1898. Authorized Capital, $50,000, in 2,000 shares of a par value of $25.00.

Directors:

Wm. Knight. Noel B. Steele. Chas. S. McLeod.
T. Sherman Rogers. George F. Parsons.

Head Office: Amherst, Nova Scotia.

Formed to acquire and work mineral property in Nova Scotia.

ANACONDA GOLD MINING CO., Limited.

Registered 20th April, 1897. Authorized Capital, $3,000,000, in shares of $1.

Officers:

James R. Cranston, President. D. W. Semple, Vice-President.
Davison Castles, Treasurer. John S. Atchison, Secretary.

Head Office: Rossland, B.C.

Owns and is developing the "Anaconda," "Treadwell," "Comstock," "City of Winnipeg," "Victoria," and other claims near Rossland, B.C.

ANGLO-CANADIAN ASBESTOS CO., Limited.

Registered 14th August, 1889. Authorized Capital, £20,000, in shares of £1, of which £11,490 has been issued and paid. There are also 6 per cent. debentures to the amount of £4,034, repayable 15th September, 1904. The accounts are made up annually to December 31st, and submitted in March. To December 31st, 1889, there was a debit to profit and loss of £23; in 1890 there was a profit which extinguished the debit brought forward, and provided a dividend of 20 per cent.; for 1891-1892 20 per cent. was paid each year; and for 1893, 1894 and 1895 *nil.* Carried forward, £837.

Directors:

R. T. Hopper, Chairman.
R. H. Holland. H. W. Paul. R. W. Potter.

Head Office: R. A. Hudson, Secretary, 11 Poultry, London, Eng.

Canadian Office: R. T. Hopper, Managing Director, 58 Canada Life Building, Montreal.

This company owns and operates certain asbestos and chromite-bearing lands in Block A, Coleraine, in the Province of Quebec. Mines located about one-quarter of a mile from Black Lake Station, on the line of the Quebec Central Railway. Engine equipment comprises: 1 Duplex Rand 5-drill air compressor, Ingersoll and Beatty hoists, 1 Northey and 1 Valley Machine Co. pump, one 60 h. p. and one 35 h. p. boiler, 4 derricks, etc. Well equipped with building accommodation.

THE ANGLO-ONTARIO EXPLORATION & GOLD MINING COMPANY, Limited.

Incorporated 1897. Authorized Capital, $1,000,000, in shares of $1.00 each.

Directors:

R. A. Demme, Detroit, Mich. | H. Ruteshauser, Detroit, Mich.
E. H. Husher, Detroit, Mich. | A. St. George Ellis, Windsor, Ont.
S. S. Babcock, Detroit, Mich. | E. Bristol, Toronto, Ont.
W. H. Cawthra, Toronto, Ont.

CANADIAN OFFICE:
E. Bristol, 103 Bay Street, Toronto.

Formed to carry on in all its branches the business of a mining, milling, reduction and development company.

ANTOINE GALENA MINE.

Owners:

George Alexander, Kaslo, B.C. | C. H. Green, Saginaw, Mich.

Mines Office: J. C. Ryan, Manager, Kaslo, B.C.

W. Russell Allen, Secretary, Kaslo, B.C.

The mine is situated 3 miles from McGuigan Station on the Kaslo and Slocan Railway, Slocan District, British Columbia. 30 persons employed 1898 and 350 tons ore shipped. Some idea of the value of the ore mined may be gathered from the following returns: The first ten cars shipped gave smelter returns of 270 oz. silver, and 45 per cent. lead—one car containing 15 tons returned $3,757. The next ten cars varied in grade, ranging as high as 386 ozs. silver and 49 per cent. lead, making the average of the twenty cars shipped over 240 ounces silver and 43 per cent. lead.

ARGANAUT GOLD MINING CO., OF KOOTENAY, Limited.

Registered 2nd November, 1895. Authorized Capital, $500,000.

Directors:

A. Graham Ferguson. | S. C. Richards. | John G. Woods.

Head Office: C. C. Bennett, 538 Hastings St., Vancouver, B.C.

Owns the "Eleanor" and "Londonderry" claims, Trail Mining District, Province of British Columbia.

ARGENTINE GOLD MINING CO, Limited.

Registered 6th May, 1897. Authorized Capital, $1,000,000, in shares of $1.00.

Directors:

E. M. Gooding. | W. A. Ritchie. | D. H. Sullivan.
C. G. Hoyt. | T. E. Thompson.
J. W. Rowlands, Vice-President and General Manager.

Head Office: W. A. Ritchie, Spokane, Wash.

Owns certain mineral claims in the Slocan District, British Columbia.

ARGO MINES OF SANDON, Limited.

Registered 8th March, 1897. Authorized Capital, $100,000, in shares of 10c.

Directors:

A. Rutherford Johnson, President.
Wm. Wilson, Vice-President. W. K. Leighton, Secretary, Nanaimo.
D. E. Campbell. Capt. John Irving. W. Christie.
R. Punnett.

Head Office: W. K. Leighton, Secretary, Nanaimo.

Owns the "Argo" and "Belt" claims and three fractions, "Kickers," "Christie" and "Gladstone," near the town of Sandon, Slocan District, British Columbia. The claims are reported under lease to W. W. Warner for two years.

ARLINGTON CONSOLIDATED MINING AND SMELTING CO., Limited.

Registered 30th March, 1897. Authorized Capital, $1,000,000, in shares of $1.

Head Office: Spokane, Wash.

CANADIAN OFFICES:

Rossland and Slocan City, B.C
Con. E. Fielding, Secretary, Slocan City, B.C.

Owns the "Arlington" and "Burlington" claims on Springer Creek, 6 miles from Slocan City, Slocan Mining District, British Columbia. *The Mines Report, B.C.*, 1898, says: "No active work done since last winter. There is some prospect of renewal of work under change of management. There is an 18 h.p. boiler and hoist at this mine (Arlington), and a very strong and wide vein shows up for about 300 feet by drifting on the lower level."

ARLINGTON GOLD MINING CO.

Mine Office: J. H. Treen, Manager, Mooseland, Tangier District, N.S.

Owns and operates 215 gold areas, formerly known as the Sagar-Musgrave block, at Mooseland, Tangier District, Nova Scotia. A milling plant is to be erected in 1899.

ARTIC BAY MINING CO., Limited.

Incorporated 24th March, 1898. Authorized Capital, $500,000, in 5,000,000, shares of a par value of 10 cents.

Directors:

Chandler M. Walker, Walkerville, Ont. Joseph Mayworm, Detroit, Mich.
Clarke J. Whitney, Detroit. Gordon J. Leggatt, Windsor, Ont.
Wm. W. Johnstone, Windsor, Ont.

Head Office: Windsor, Ont.

Formed to acquire and work mines and mineral lands in the Yukon District, of the North-West Territories of Canada, or elsewhere in the Dominion.

ASBESTOS AND ASBESTIC CO., Limited.

Registered 1897. Authorized Capital, £500,000, in 50,000 shares of £10 each, all of which have been subscribed and called up.

Directors:

Gilbert Bartholomew, Chairman.

Wilberforce Bryant.	Andrew A. Allan.
A. Naylor.	R. H. Martin.
Henry Hayman.	Feodor Boas.

CANADIAN OFFICE:

Feodor Boas, Managing Director, Danville, Que.

Head Office: E. E. Hayes, Secretary, 27 Billiter Buildings, Leadenhall Street, London, E.C.

Formed to acquire and work the Jeffrey asbestos mine and other freehold property at Danville, in the Province of Quebec, as follows:—

"Under Contract No. 1, for the consideration of 16,666 fully paid shares of £10 each, and £283,340 in cash, the vendors undertake to transfer to the company free from all mortgages and charges:

1. The freehold asbestos property, about 75 acres in extent, with the factories and buildings situate thereon, and the plant and rolling stock, supplies and tools.

2. Six hundred acres of freehold land with growing timber, near Danville, with saw mill and slate quarry, and about 200 acres of freehold land, with the buildings machinery and dwelling-houses thereon.

ASBESTOS AND ASBESTIC CO. LIMITED—Continued.

3. The options on the water rights recently acquired by the vendors on the River Nicolet, and all such rights of way as the vendors now have, together with the right to take over their charter, recently obtained, for the proposed branch railway."

The mine is at present worked by three pits, but these will shortly be opened together, making a working face of at least 1,000 ft. long by about 100 ft. high. The material is raised from the pits and carried by a cable-way and derricks worked by large winding engines, direct to a large and well appointed mill thoroughly equipped with a plant of modern construction, comprising crushing, sorting, drying, pulverizing and separating machinery.

ASHCROFT GOLD MINING CO., Limited.

Re-Incorporated 14th June, 1897. Authorized Capital, $25,000, in shares of a par value of 25 cents.

Directors:

Dr. F. S. Reynolds. H. L. Roberts. Herbert Cancelor.

Head Office: Ashcroft, B.C.

The property owned by the company comprises 6,000 ft. of hydraulic ground on the Fraser River, near Keefers. Mr. G. C. Tunstall, Gold Commissioner for Yale Mining Division, in his report for 1898, says of this property: "The company spent the early part of the season in building a reservoir and getting water on its property. It now finds that it cannot get enough water from the creek tapped, and is working at another, situated some 3 miles from the property. The property is considered one of the best of the bench claims on the Fraser River, the gold being exceptionally coarse. From a few hours run this spring, with very little water, $380 in gold dust was produced."

ASSOCIATED GOLD MINES OF BRITISH COLUMBIA, Limited.

Registered 14th January, 1898. Authorized Capital, £500,000, in shares of £1.

Head Office: 1 Northumberland Avenue, London, W.C.

Formed to acquire mines, mining rights, claims, &c., in British Columbia.

ATHABASCA GOLD MINE, Limited.

Incorporated 1898. Authorized Capital, £200,000, in shares of £1.

Directors:

Arthur Fell, Chairman,
Lord Charles R. Pratt. T. A. Yarrow.

Head Office: J. A. Turner, Secretary, 46 Queen Victoria St., London, E.C.

CANADIAN OFFICE:

E. Nelson Fell, Manager, Nelson, B.C.
C. W. Riley, Mine Superintendent, Nelson, B.C.

Formed to carry into effect an agreement dated 23rd March, 1898, made between Arthur Emerson Rand, as Trustee for the Athabasca Gold Mining Co., Limited, of the one part, and the British Columbia and New Find Gold Fields Corporation, Limited, of the other part, being an agreement for the purchase of all the mining rights, concessions, undertakings, business and good will of the Athabasca Gold Mining Company, Limited, and to acquire and work other grants, concessions, leases, claims, licenses, &c.

The property owned and operated comprises four claims, or fractions, situated on Morning Mountain, 3 miles from the town of Nelson, British Columbia. At date of report the property was opened by one shaft down 100 ft., by one tunnel in 670 ft., five drifts aggregating 500 ft. The mining and milling plant comprises:

Rock Drills—Rand.
Boilers—One 16 H. P.
Hoisting Engine—One Single.
Rock Breaker—One 7 x 10 Blake.
Electric Lighting Plant—Edison 6 K. W.
Stamp Mill—Ten Stamp Battery, water driven, built by Fraser & Chalmers; Weight Stamps, 985 lbs.; Challenge Feed; 4 Frue Vanners.
Employees on surface, 22; below, 45.

At a meeting of the shareholders of the British Columbia and New Find Gold Fields Corporation held in May, 1899, the Chairman gave the following report of the operations of the battery:—

"In October, which was a broken month, it crushed 400 tons of the value of $1,961, or $4.90 per ton. That was considered disappointing. The next month's crushing was 728 tons, which produced $7,560, or an average of $10.39 per ton. In December it crushed 695 tons, which produced $6,400 or $9.22 per ton. In January, (1899) it crushed 713 tons, which produced $5,190, or $7.29 per ton. In February the manager pursued a different

ATHABASCA GOLD MINE—Continued.

method. The ore was getting so much richer that he put more Frue Vanners on and ran the battery more slowly. Four hundred and twenty-four tons were crushed and produced $7,988, or $18.93 per ton. In March 465 tons were crushed, which produced $9,650, or over $20.75 per ton, although we are only getting 20.75 dwt. per ton, the ore is really running about 2 ozs. and it is manifest the balance is lost in the tailings. We have had specimens taken every day for a month, and these have been shipped to Vancouver, where they will be tested with cyanide, and we are awaiting the opinions of experts there as to whether the cyanide plant would be the best method of extracting the one ounce lost in the tailings. Another plan is to put up more vanners and collect a larger amount of concentrates and send them to Hall Mines Smelter which is quite near."

ATHELSTAN GOLD MINING CO., Limited.

Authorized Capital, $150,000, in 15 cent shares.

Directors:

George T. Crane, President.

Frank C. Loring, Vice-President. F. E. Snodgrass, Secretary-Treasurer.

Head Office: F. E. Snodgrass, Secretary-Treasurer, Spokane.

CANADIAN OFFICE:

F. H. Oliver, Manager, Rossland, B.C.

Owns and is developing the "Athelstan" mineral claim Wellington Camp, Boundary Creek District, 10 miles from Grand Forks, British Columbia.

ATLAS AND HUNTINGDON DEVELOPMENT SYNDICATE, Limited.

Registered 18th May, 1898. Authorized Capital, $10,000, in shares of $5.00.

Head Office: Slocan City, B.C.

Formed to acquire and work the "Atlas" and "Huntingdon" claims, Slocan District, British Columbia.

ATLAS MINING & DEVELOPMENT CO., Limited.

Incorporated 1897. Authorized Capital, $1,000,000, in shares of $1.00.

Directors:

A. T. Toney. J. W. Thornton. H. F. Arnold.

Head Office: Rossland, B.C.

Formed to acquire and work the "Monto Christo" mineral claim, situated in the Nelson Mining Division of British Columbia.

ATLIN MINING CO. OF ONTARIO, Limited.

Authorized Capital, $400,000, in 1,600,000 shares of a par value of 25 cents.

Officers:

John Torrance, President.

Wm. Moore, 1st Vice-President. | Dr. W. W. Meacham, 2nd Vice-Pres.
J. B. Clarkson, Treasurer. | Bannell Sawyer, Secretary.

Head Office: Bannell Sawyer, Secretary, 110 St. Francois Xavier Street, Montreal.

Owns and is developing mining Location H. P. 259, known as the "Sirdar of Manitou" claim, on the Upper Manitou Lake, in the Rainy River District of Ontario. The claim is seven miles from the town of Denmark. A mill test of 18 tons by the Ottawa Gold Milling & Mining Company at Keewatin, gave a value of $9.60 to the ton. At date of report a shaft has been sunk to depth of 45 feet and a contract given to sink an additional 30 feet and to drift 60 feet on the veins.

AURORA MINING & DEVELOPMENT CO OF ONTARIO, Limited.

Incorporated 1897. Authorized Capital, $1,000,000, in shares of $5.00 each.

Directors:

J. H. Ashdown, Winnipeg, Man. | W. Georgeson, Winnipeg, Man.
R. J. Whitla, Winnipeg, Man. | J. Thompson, Winnipeg, Man.
D. K. Elliott, Winnipeg, Man. | J. J. Codville, Winnipeg, Man.
A. B. Bethune, Winnipeg, Man. | J. W. Peck, Winnipeg, Man.
W. Phair, Fort Francis, Ont.

Mines Office: Fort Francis, Ont.

Formed to carry on in all its branches the operations of a mining, milling, reduction and development company.

BADGER-TOURMALINE CONSOLIDATED GOLD MINING CO., Limited.

Registered 28th August, 1896. Authorized Capital, $1,500,000, in shares of $1.

Directors:

R. F. Dodd, President.

John Linelıam, Vice-President. F. C. Lawe, Secretary-Treasurer.

Head Office: Rossland, B.C.

Owns the Badger and Tourmaline, Fraction, situated on Deer Park Mountain, 1½ miles S.W. of Rossland, British Columbia.

BALD INDIAN BAY MINING & INVESTMENT CO., Limited.

Authorized Capital, $6,000, in shares of $1.00

Directors:

Levi Crannell. W. A. Clark. A. W. Fraser.
J. Burley Smith.

Head Office: A. W. Fraser, Secretary-Treasurer, Ottawa, Ont.

Formed to acquire by purchase, or otherwise, any lands, or rights, or interests in lands for any of the purposes of the company, and any mines, mining rights or mining locations in the districts of Thunder Bay, Ontario.

BALD MOUNTAIN MINING AND DEVELOPMENT CO., Limited.

Incorporated under the Laws of British Columbia. Authorized Capital, $2,500,000, in shares of a par value of $1.00.

Directors:

W. H. Lee, Calgarry, N.W.T., President.

W. McNeish, Golden, B.C. | A. McQueen, Calgary, N.W.T.
G. B. McDermott, Golden, B.C. | J. Kenny, Calgary, N.W.T.

Head Office: A. Allen, Secretary-Treasurer, Calgary, N.W.T.

The property comprises the "Molly Jackson," "Elkhorn," "Marie Louise," "Snow Plow," "Queen of Scots," "Imperial," "Observer," "Persimmon," "W. J. Neilson," and "Maud S." Ten claims in all, covering about 515 acres in a group and situated on Bald Mountain, about 6½ miles from the town of Donald, British Columbia.

BALTIMORE GOLD MINING & DEVELOPMENT CO, Limited.

Incorporated 1898, under the Laws of British Columbia. Authorized Capital, $1,500,000, in shares of a par value of $5.00.

Directors:

George H. Green. Hugh Henderson. A. C. Fry. John W. Miller. Henry Daniels, all of Rossland.

Head Office: Rossland, B.C.

Owns the following group of claims:—

Group One.—Comprising "The Copper Queen," "Humming Bird," and half interests in the "E. C. C.," the "Bannock Burnt," the "Golden Dream" all adjoining on Toad Mountain, about three-fourths of a mile distant from the great Silver King mine.

Group Two.—Comprising the "George H." and "San Jose" adjoining claims, situated on Forty-Nine Mile Creek on the north-west slope of Morning Mountain, both groups in the Nelson Mining Division of West Kootenay.

Group Three—Comprising the "Bumble Bee," "Butter Fly," "Spider," "The Fly" and "The Miller" mineral claims all adjoining on the south-west slope of Sophie Mountain, near Big Sheep Creek, about one and one-half miles from the Velvet mine.

Also, the "London No. Two" on Champion Creek, about five miles from Champion station on the Nelson & Fort Sheppard Railway.

Work has been confined almost entirely to the "Copper Queen" claim, where a tunnel has been driven about 35 feet on the vein in a southerly direction in a strong compact body of quartz well mineralized with sulphides of copper occurring in bunches and plentifully interspersed throughout the quartz. On the western vein an eighteen foot open cut exposes the lode to be three feet wide and of similiar appearance to the ore in the main vein. The present tunnel contract is for fifty feet which will reach—when completed—to within thirty-five feet of tapping the main lode. The character of the ore consists chiefly of sulphides of copper in a quartz filling. The quartz presents a good appearance and contains heavy stains of malachite or copper carbonates. Assays showed 19.3 per cent. in copper, 3 ozs. in silver and a trace of gold, equal to a value of $44.86 in all from a sample taken from the tunnel. The surface ore appears to be equally well mineralized also.

BANNER GOLD COPPER MINING CO., Limited.

Incorporated under the Laws of British Columbia.

Authorized Capital $100,000, in shares of a par value of 10 cents.

Directors:

D. K. McDonald, Spokane, Wash., President.

I. M. Cornthwait, Spokane Wash., Secretary-Treasurer.
P. Alladio, Spokane, Wash | H. H. Bailley, Ottawa, Ont.
J. Fisher, Greenwood, B.C.

Head Office: I. M. Cornthwait, Secretary-Treasurer, Spokane, Wash.

Mine Office: J. Fisher, M.E., Greenwood, B.C.

The mineral claims owned by the company are the "Banner" Fraction and "Tip Top" Fraction, situated in Greenwood Camp, Kettle River Mining Division of Yale District, British Columbia.

BANNOCKBURN GOLD MINING CO., Limited.

Incorporated 1896. Authorized Capital, $500,000, in shares of $1.

Directors:

W. K. McNaught. John S. King. | John Lamb. Dr. W. E. Haminell.
O. B. Shepherd. | J. Enoch Thompson.

Mines Office: Bannockburn, Ont.

Owns and operates a gold location, lot 28, in the 5th Concession of the Township of Madoc, Hastings County, Ontario, equipped with a 10-stamp mill and other machinery.

BARNATO GOLD AND SILVER MINING CO, OF SLOCAN, Limited.

Authorized Capital, $1,000,000, in shares of $1.00.

Directors:

W. A. Campbell. T. M. Daly. Wm. R. Ross.

Head Office: Rossland, B.C.

Formed to purchase the "Barnett," "Little Montane" and "Palaski" mineral claims, situated at the head of Lemon Creek, in the Slocan District, British Columbia. 150 feet of incline tunnel and drifting on the vein; ore silver sulphides, and pyrites.

B C. AND DOMINION EXPLORATION CO., Limited.

Registered in London, England, 19th February, 1897, to acquire and deal with mining properties. Authorized Capital, £50,000, in shares of £1 each: 3001 shares have been issued.

Head Office: J. F. Beatson, Secretary, Suffolk House, Lawrence Pountney Hill, London, E.C.

B.C. COPPER SYNDICATE, Limited.

This Syndicate was registered on the 31st March, 1898, by Kerly & Co., 14 Great Winchester Street, London, E.C., England, to adopt an agreement with P. Tarbut and to acquire mining properties in British Columbia. The Authorized Capital is £13,500, in 270,000 shares of 1s. each.

B.C. DEVELOPMENT COMPANY, Limited.

Registered 11th May, 1896. The Authorized Capital is £30,000, in 30,000 shares of £1 each: 27,557 shares have been issued, and are fully paid. The capital was originally £5,000, but was increased to the present amount by resolution passed on the 24th June, 1896.

Directors:

Lord Sudeley, Chairman.

G. A. Phillips. | H. R. Schmettan. | Harvey Preen.

Head Office: H. W. Martin, 3 Grace Church Street, London, E.C.

Formed to acquire and deal with mining rights, etc.

B.C. EXPLORING SYNDICATE, Limited.

Registered 11th July, 1896. The Authorized Capital is £20,000, in 20,000 shares of £1 each: 15,682 shares have been issued, 2,500 being fully paid, and 13,182 having 15s. per share called up.

Directors:

E. A. Cade, Chairman.

J. Cobledick. | F. V. Marment. | E. P. Milsted. | John Morrish.
C. E. Tempest.

Head Office: J. H. Champness, F.C.A., 103 Cannon St., London, E.C.

Formed to enter into an agreement with J. Cobledick, and generally to prospect and explore mining lands in British Columbia and elsewhere.

B.C. SYNDICATE, Limited.

Registered 24th February, 1897. Authorized Capital, £30,000, in 30,000 shares of £1 each: 3,812 shares have been issued, and 20s. per share called up.

Directors:

Hon. R. C. Grosvenor, Chairman.

Capt. Hon. Arthur Somerset. | A. Drucker, M.P. | John Eustace.

Head Office: A. Davidson, Secretary, 10 St. Helens Place, London, E.C.

Formed to seek for openings for the employment of capital in British Columbia or elsewhere, and to carry on the business of miners, explorers, prospectors, smelters, etc.

BEATTY GOLD DREDGING AND MINING CO., Limited.

Incorporated 1896. Authorized Capital, $50,000, in shares of the par value of $100.

Directors:

H. C. Symes, President.

J. A. McSloy. | H. McCulloch. | A. O. Beatty. | A. C. Denniston.

B. R. Paine.

Head Office: Niagara Falls, Ont.

Mines Office: L. R. Symes, Manager, North Bend, B.C.

Controls and is working certain dredging leases embracing an area of 23 miles on the Fraser River, Province of British Columbia.

The dredging plant consists of a combined dipper and suction dredge, hull 75 feet long, 30 feet wide, a complete set of dipper dredge machinery, with improved water-tight dipper, a special hydraulic sand pump, steam spud hoisting machinery, warping drums with wire cables and anchor for moving the dredge about in the river, which flows swiftly at this point. A scow with sluice box and grizzley upon it, and a dump scow to take the stones out of the way after they are separated from the gravel and sand.

BEAVER ASBESTOS CO., Limited.

Incorporated 1890, under Letters Patent from the Legislature of the Province of Quebec. Capital, $100,000, in shares of $100 each, fully subscribed and paid up.

Directors:

R. H. Martin, New York, President.

H. D. Lawrence. | Jas. S. Mitchell, Sherbrooke, Vice-Pres.
H. W. Woodside. | H. J. Williams, Danville, Que.

Head Office: J. W. Woodside, Secretary, Sherbrooke, Que.

Formed to acquire and work asbestos and other mineral lands in the Province of Quebec, more particularly Lots 31, 32, Range C, Coleraine, in the County of Megantic, Que. Mines situated about half a mile from Thetford Station on the Quebec Central Railway. Machinery comprises: 2 boilers, 125 h.p.; 1 single drum and 1 double drum hoist and 1 winding engine, built by the Jenckes Machine Co.; 4 boom and 1 cable derricks; 4 steam drills (Rand); 1 Blake and 2 Northey steam pumps, etc. Well equipped with suitable buildings.

BEAVER GOLD MINING CO., Limited.

Registered in British Columbia, 3rd January, 1898. Authorized Capital, $750,000, in shares of $1.00 each.

Officers:

M. R. Kellinger, President. | W. H. Fortier, Secretary.

Head Office: Spokane, Wash.

Canadian Office: J. C. Fisher, Osoyoos, B.C.

Owns the Raven and other claims on O.K. Mountain.

BELL'S ASBESTOS CO., Limited.

Registered 4th May, 1888. To take over, as from 1st January, 1888, the business of Messrs. John Bell & Son, asbestos manufacturers, and asbestos-bearing property in Canada. In 1895 the then existing shares of £5 each were subdivided into 5 shares of £1, and the share capital is now £200,000 in shares of £1, of which £120,000 has been issued and paid up in full. There are also a mortgage of £25,000 and 5 per

BELL'S ASBESTOS CO.—Continued.

cent. debentures of £100 each to the amount of £51,200 (outstanding balance of £70,000), with interest payable January 1st and July 1st. The debentures are redeemable on or before January 1st, 1913, at 115 per cent. by annual drawing in December a fixed sum being set aside annually to cover interest and redemption; while the company reserves the right at any time to increase the sinking fund and apply such increase towards the redemption of the outstanding balance, either by purchase in the market, if under 115 per cent., or by additional drawings at this rate. Accounts to December 31st submitted in February. Dividends for 1888 and 1889, 22½ per cent. each year; 1890, 15 per cent.; 1891, 10 per cent.; 1892, 7½ per cent.; 1893, 5 per cent.; 1894, 12 per cent.; 1895, 3 per cent.; 1896, 5 per cent.; 1897, 4 per cent.; 1898, 4 per cent.

Directors:

Hy. Heywood, Chairman.

T. B. Lightfoot. | H. A. Bell. | A. J. Burnett. | W. C. Johnson.

CANADIAN OFFICE:

Geo. R. Smith, M.L.A., Manager, Thetford Mines, Que.

Head Office: Geo. W. Giles, Secretary, 59½ Southwark St., London, S.E.

Formed to take over the business of Messrs. John Bell & Son, and to buy and work the freehold deposits of asbestos at Thetford, Hayden and Belmina, and elsewhere in the Townships of Thetford and Coleraine, Province of Quebec. The purchase price for these properties was: Belmina, £8,394; Thetford at £41,3000 stg., and Hayden at £8,000 stg. Mines at Thetford Station on the Q. C. Railway. 280 persons employed. The machinery equipment at date comprises:—

Boilers—Three 20 h.p., two 100 h.p., two 60 h.p., one 150 h.p.

Air compressor—One Norwalk, 12 drill capacity.

Hoisting engines—Three Ingersoll and four Bacon in place; cyl. 8¼ x 10 in.; diameter of drum, 24 x 36 in.

Rock drills—Nine in place; six Sergeant, 3¼ in.; three Ingersoll, 3¼ in.

Derricks—Three cable and five boom.

Pumps—Five in place, Blake and Worthington.

Rock breaker—One Gates.

Asbestos mill equipped with a first-class plant for mechanical separation of asbestos, including rolls, crushers, picking tables, screens and a cyclone mill.

Works lit by electricity.

BELL'S ASBESTOS CO.—Continued.

The following is excerpted from the Directors Report submitted at a meeting of the shareholders 25th May, 1899, covering the operations of the company for the year ended 31st December, 1898 :—

The result of the year's operations is a net profit of.....	£5,033 18 2
To which has to be added the amount brought forward.....	2,339 13 5
Leaving for Appropriation.	£7,373 11 7

The Directors recommend:—

1.—The payment on the 29th of May of a dividend at the rate of 4 per cent. per annum, free of Income Tax.

2.—To place to Machinery reserve fund £500.

3.—To carry forward £2,073 11s. 7d.

BALANCE SHEET, 31ST DECEMBER, 1898.

Dr.

To Share Capital—Authorized :		
200,000 shares of £1 each	£200,000 0 0	
Issued :—		
120,000 shares of £1 each fully paid.....		£120,000 0 0
To Mortgage Debentures :—(Charged upon the undertaking)		
488 bonds of £100 each	£48,800 0 0	
Interest	1,220 0 0	
Premium on bonds drawn for payment ...	375 0 0	
	£50,395 0 0	
Deduct—Cash lodged with Trustees for redemption of bonds	3,014 6 5	
		47,380 13 7
To Creditors :		
On bills payable	£7,883 10 9	
On open accounts.....	14,093 2 5	
		21,976 13 2
To Reserve Fund		65,000 0 0
To Machinery Reserve Fund		3,000 0 0
To Profit and Loss Account :—		
Balance from account, 31st Decr., 1897...	£2,339 13 5	
Balance from account for the year	5,033 18 2	
		7,373 11 7
		£264,730 18 4

BELL'S ASBESTOS CO.—Continued.

Cr.

By Cash:			
On deposit at Bankers	£10,000 0 0		
At Bankers, on current account	1,026 19 1		
In hand	30 16 9		
		£11,057 15 10	
By Bills receivable on hand		9,940 6 7	
By Debtors		46,127 19 4	
By Sundry shares		1,267 3 0	
By Stock in Trade:—			
London and elsewhere	£22,460 6 7		
Asbestos estates	3,145 6 8		
		25,605 13 3	
By Plant, machinery, fittings, fixtures and furniture	£12,648 12 0		
Less Depreciation	634 0 3		
		12,014 11 9	
By Asbestos estates Canada, at cost, and buildings, machinery, and sundries thereon	£74,356 0 10		
Less Depreciation of buildings and machinery	517 10 1		
		73,838 10 9	
By Freehold premises, Southwark st., at cost	£50,776 19 2		
Less Mortgage thereon	35,000 0 0		
		15,776 19 2	
By Amount paid for goodwill, patents and trade marks of the business of John Bell & Son		69,101 18 8	
		£264,730 18 4	

PROFIT AND LOSS ACCOUNT FOR THE YEAR ENDING 31ST DECEMBER, 1898.

Dr.

To Interest on debentures, and on mortgage on freehold property	£3,379 4 2
To Remuneration of directors and managing director	1,662 10 0
To Premium on debentures drawn for payment	375 0 0
To Balance carried to balance sheet	5,033 18 2
	£10,450 12 4

Cr.

By Profit of the year	£10,429 18 10
By Transfer fees	20 13 6
	£10,450 12 4

BERLIN GOLD MINING CO., Limited.

Authorized Capital, $1,000,000, in shares of $1.00.

Officers:

O. D. Casselman, President. | H. Marymont, Vice-President.
H. R. Dunlop, Secretary-Treasurer.

Head Office: Rossland, B.C.

Owns the Berlin, I. X. L., Lion and Tiger claims, near Rossland, B.C.

BERTIE NATURAL GAS COMPANY.

Incorporated 21st February, 1891. Authorized Capital, $8,000, of which, to date, about $4,000 have been paid up.

Directors:

H. N Hibbard.

B. M. Disher. | I. L. Pound.
John Young. | A. H. Kilman.

Head Office: A. H. Kilman, Sec.-Treas., Ridgeway, Ont.

The operations of this company are at the village of Ridgeway, on the Buffalo and Goderich line of the Grand Trunk Railway. One well 870 feet deep; pipe line laid for about two miles: product entirely consumed in the village for light, heat and motive power. The first gas was found in the Clinton limestone at 725 feet; the second in red Medina sandstone at 785 feet; but the best flow was obtained at 840 to 850 feet in the white Medina. A 3-inch pipe has been put down to the bottom of the well, through which the gas from the second and third horizons is delivered to the service pipe.

In 1893 a second well was put down. It is located about half a mile north-east of No. 1 well. The formations passed through were very similar to those pierced in boring the first well, the chief difference being that corresponding strata were found at from 10 to 15 feet nearer the surface, due to the southerly dip of the rock. The product of No. 2 is estimated at about half that of No. 1; that is to say, nearly 250,000 cubic feet in 24 hours. This well is now piped to the regulating station, and the gas from either well or from both may be used at will. This gas is used for local purposes only.

Reporting 1st January, 1896, the Secretary writes:—"The product of gas from these two wells is yet sufficient to supply the village, though a decrease of pressure is noticeable—not, however, running so low as to allow the water to enter or to necessitate "blowing off." The gas is used eco-

BERTIE NATURAL GAS CO.—Continued.

nomically and is indeed a boon to the village. About 120 houses, stores, hotels, etc., are supplied with fuel from the two wells. The Standard Oil Company—controlling the gas field here—pipe the product to Buffalo. Our little local company is struggling to save for our own people a share of the vanishing luxury—natural gas. The output of great wells around us goes by our village at high pressure. The effect of the heavy drain begins to show, as during some months our wells have steadily decreased, and the water must be "blown off" at regular intervals to prevent flooding the regulators."

In October, 1897, a third well was drilled, which proved a very light producer.

The product from each well is now regulated by itself in order that one may be rested while the other two are used. In very cold weather all three are required. The pressure is still falling off.

Writing on May 9th, 1899, the Secretary says:—"A fourth well will be drilled to meet the requirements of consumers, as the declining pressure was severely felt during the cold weather in February.

BIG BEND GOLD MINING CO., Limited

Authorized Capital, $250,000, in shares of the par value of 25 cents.

Directors:

F. H. Young
J. Miller.
J. E. W. McFarlane.
C. A. Lett.
C. S. Stemson.
C. Coulson.
C. O. Wickendon.
C. S. Douglas.
D. H. Wilson.
J. H. Hoare.

Head Office: Vancouver, B.C.

Formed to purchase certain mineral claims situate on the Big Bend of the Columbia River, on, or near McCulloch Creek, British Columbia.

BIG BUMP COPPER CO., Limited.

Registered 26th April, 1898. Authorized Capital, $1,000,000, in shares of a par value of $5.00.

Head Office: New York.

Canadian Office: Frederick Keffer, M.E., Anaconda, B.C.

BIG BUMP GOLD MINING CO., Limited.

Re-Registered 22nd April, 1898. Authorized Capital, $150,000, in shares of a par value of 30 cents.

Head Office: H. K. Galusha, Sec.-Treas., Spokane, Wash.

Canadian Office: F. H. Oliver, Rossland, B.C.

Owns and is developing the Big Bump mineral claim on the north fork of the Salmon River.

BIG CHIEF MINING CO.

Incorporated 1896. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

Col. T. H. Tracey, C.E., Vancouver. B. C., President.
A. Williams, M.P.P , Vancouver, Vice-Pres.
J. J. Banfield, Vancouver, Sec.-Treas.
H. P. McCarney, Rossland, Managing Director.

Head Office: J. J. Banfield, Sec.-Treas., Vancouver, B.C.

Mines Office: H. P. McCarney, Rossland, B.C.

Owns and is developing the Big Chief No. II. claim on the east slope of O.K. Mountain, near Rossland, B.C.

BIG MANITOU MINING & DEVELOPMENT CO., Limited.

Authorized Capital, $1,000,000, in shares of $1.00.

Directors:

J. H. Ashdown. | D. K. Elliott. | A. R. Bethune. | W. Georgeson.
William Phair.

Head Office, Wabigoon, Ont.

Formed to acquire and work Mining Location H.P. 222, in the Rainy River District, Ont.

BIG THREE GOLD MINING CO., Limited.

Organized, August, 1896. Authorized Capital, $3,500,000, in shares of $1.00.

Directors:

A. F. Gault, President.

S. H. C. Miner, | Hon. J. O. Villeneuve, | Chas. F. Smith,
Jay P. Graves, Manager. | C. E. Gault, Sec.-Treas.

Head Office: C. E. Gault, Sec.-Treas., 17 St. John St., Montreal.

Mines Office: W. Yolen Williams, Mine Superintendent, Rossland, B.C.

Owns and is developing the "Mascot" claim, comprising 44 acres, the "Southern Belle," comprising 30 acres, and the "Snow-Shoe," comprising 44 acres., situated near Rossland, in the Trail Creek Mining District, British Columbia. At 1st May 35 persons employed. The following is excerpted from the official report to the shareholders under date of 15th October, 1898:—

"I beg to submit for your approval a statement of the accounts for the year ending 31st August, 1898, and a report of our Superintendent on the mines, dated 10th September, 1898.

"I recently visited your properties in Rossland in conjunction with your Manager, and we were perfectly satisfied with the progress that has been made and the showing of ore exposed. While there, in accordance with the authority given by your Board of Directors, a contract was closed with the Cooper Manufacturing Company for a seven-drill, electrically driven Ingersoll-Sergeant air compressing plant, hoisting engine and a complement of Sergeant drills, etc.

"A favorable contract was made with the West Kootenay Power and Light Company for Power to operate the compressor, a clause being inserted in the contract that when we increase our power we will get the same rate as that given to the users of the largest amount of power.

"A contract was also made with the General Electric Company for a dynamo, known as a three-phase synchronous motor (75 kilowatt), which will deliver upwards of 100 horse power at a rate of speed of 900 revolutions per minute. The compressor plant will be delivered immediately, and the dynamo is expected the latter part of this month, and we hope to have the whole in operation the beginning of November.

"A site has been chosen for the power-house, and a building is now in course of erection. This, we expect, will be the first electrically driven compressor plant in Rossland.

BIG THREE GOLD MINING CO.—Continued.

"A tunnel has been started on the lower part of the "Mascot" property, and it is the intention to make this the main workings of the property. An upraise will be then made to meet the winze now being sunk on the vein from the upper tunnel. This will enable us to mine the ore very economically, and we will get a depth of about 700 feet at the rear part of the property.

"Owing to the heavy snow on the ground we were not able to resume operations on the "Snow-Shoe" and "Southern Belle" for some months after the "Mascot," and, therefore, they are not so far advanced; but if the showing continues to improve, as it is now doing, it will warrant machinery and compressor plant being put on the property next spring.

"I am informed that the Canadian Pacific Railway Co. has commenced a spur from their line to the Columbia and Kootenay Mine. This will go across our Mascot property and just below our lower tunnel.

"It is also reported that a spur will be built to the Monte Christo Mine. This will be advantageous for our Snow-Shoe and Southern Belle properties.

"I may mention that the properties are being worked as economically as it is possible to do so, and none of your present Directors or Officers are receiving any remuneration whatever.

C. E. GAULT,
Sec.-Treas."

FINANCIAL STATEMENT 31ST AUGUST, 1898.

CASH ACCOUNTS.

Receipts.		
To Cash balance	$ 11 59	
To Sale of Treasury stock	31,000 00	
To Transfer fees	9 34	
		$31,020 93
Disbursements.		
By Labor "Mascot"	$ 4,542 02	
By Labor "Southern Belle" and "Snow-Shoe"	1,954 23	
By Tools and supplies	1,158 73	
By Taxes and registration	179 10	
By Legal expenses	205 10	
By Open accounts	3,487 98	
By Assays	57 95	
By Travelling expenses	256 80	
By Sundry expenses, stationery, telegrams, postage, exchange, etc.	540 83	
		12,682 74
Balance on hand		$18,638 19
		$31,020 93

BIG THREE GOLD MINING CO.—Continued.

LEDGER BALANCES.

Dr.

Mines and mineral claims			$3,317,198 85
Labor	"Mascot"		4,542 02
Tools, track, car, etc.	"		189 16
Supplies	"		781 44
Buildings	"		139 31
Labour	"Southern Belle"		1,954 23
Tools, track, car, etc.	"		168 76
Supplies	"		433 13
Buildings	"		30 20
General expense			573 06
Assays			57 95
Open accounts			220 00
Balance due on Treasury stock sold			9,000 00
Cash			18,638 19
			$3,353,926 30
Profit and loss			2,841 27
			$3,356,767 57

Cr.

By Capital	$3,500,000 00	
Less unissued	145,330 00	
		$3,354,670 00
By Open accounts		2,088 23
By Transfer fees		9 34
		$3,356,767 57

BIG VALLEY CREEK GOLD MINES, Limited.

Registered 24th April, 1896.
Authorized Capital, £125,000, in shares of £1 each.

Directors:

The Earl of Kilmorey, M.P.
Ross Robinson. | Thos. Sopwith. | Walter Holdsworth. | Frank Davies.

Advisory Board in Canada:

Hon. Jas. Reid, Quesnelle, B.C. | Dr. J. W. Powell, Victoria, B.C.
William Adams, M.P.P., Cariboo, B.C.

BIG VALLEY CREEK GOLD MINES—Continued.

CANADIAN OFFICE :

Major C. P. Dupont, Victoria, B.C.

Head Office :

E. A. Foster, 6 Great St. Helens, London, E.C.

This company, which was formed to operate a property of some 640 acres in the district of Cariboo, British Columbia, was, at last report, being reorganized.

BI-METALLIC MINING & DEVELOPMENT CO. OF ONTARIO, Limited.

Incorporated 1897. Authorized Capital, $2,500,000. in Shares of $1.00 Each.

Directors :

R. S. King, Toronto, Ont.	J. S. Dignam, Toronto, Ont.
J. Montgomery, " "	F. Tronsdell, " "
W. H. Jones, " "	F. De la Vigne, " "

A. E. Jones, London, England.

Head Office : Toronto, Ont.

Formed to carry on in all its branches the business of a mining, milling, reduction and development company.

BLACKBURN MICA MINE.

Owners :

Blackburn Bros., Ottawa, Ont.

Head Office : Russell Blackburn, Manager, 46 Sussex St., Ottawa, Ont.

Mine Office: R. A. Stewart, Mine Superintendent, Perkins Mills, P.O., Que.

The property comprises 900 acres of phosphate and mica lands in the IX. Range, East Templeton, Ottawa County, Province of Quebec. The mine has been worked for many years, formerly for phosphate and more recently for amber mica and phosphate. The workings comprise one shaft down 210 feet, one open pit 200 feet long, 100 feet wide, and 60 feet deep; with numerous drifts and cross cuts. Equipped with a suitable mining plant. At 1st May, 1899, 61 persons were employed at the mine.

BLACK CURRENT MINING CO., Limited.

Incorporated 30th April, 1897. Authorized Capital, $1,000,000, in Shares of a par value of $1.00.

Directors:

Dr. J. F. B. Rogers. | Dr. A. S. Marshall. | Frank Watson.
A. W. S. Siegel | E. G. Coy.

Head Office: F. Watson, Sec.-Treas., Kaslo, B.C.

Owns and is developing the "Pauper's Dream" mineral claim near Whitewater, Slocan District, British Columbia.

BLACK DIAMOND MINING AND DEVELOPMENT CO., Limited.

Incorporated in British Columbia 3rd April, 1897.
Authorized Capital $600,000, in Shares of a par value of 50 cents.

Officers:

Major S. B. Steele, President. | Fred. Steele, Sec.-Treas.
T. M. Gibson, Superintendent.

Head Office: Kaslo, B.C.

Owns and is developing the Black Diamond and Little Donald mineral claims, near Ainsworth, British Columbia. 800 feet of tunnelling, with cross-cuts, winzes and drifts.

BLACK HILLS MINING CO. OF BRITISH COLUMBIA, Limited.

Incorporated 26th February, 1897. Authorized Capital, $100,000, in Shares of a par value of 10 cents.

Directors:

Moses McGregor. | Thos. Shosbolt | Lawrence Goodacre.
Daniel W. Gillies. | W. K. Leighton.

Head Office: Moses McGregor, President; Wm. Christie, Secretary-Treasurer, Victoria, B.C.

Owns and is developing the Black Hills mineral claim on the south fork of Kaslo Creek, ¾m. from the K. & S. Ry., and 9m. from Kaslo, B.C.

BLACK PRINCE MINING & MILLING CO., Limited.

Incorporated 1897. Authorized Capital, $1,000,000, in shares of $1 each.

Directors:

Hector McPherson. | James Hampton. | Wm. Drever. | J. A. Kirk.

Head Office: Hector McPherson, Rossland, B.C.

Formed to acquire the mineral claims "Black Prince," "King of the West" and "Queen of the Valley" in the Trail Mining Division of British Columbia.

BLACK ROCK GOLD MINING CO., Limited.

Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Directors:

W. P. Boyd. | O. R. Dahl. | A. Chilberg. | W. Y. L. Rutherford.
E. J. Holt. | W. H. Clark. | F. A. Pontins.
E. R. Mason. | A. W. Anderson.

Head Office: W. Y. L. Rutherford, Secretary, 905 First Avenue, Seattle, Wash., A. W. Anderson, Manager.

Owns the Black Rock claim, comprising 26 acres, and situated on the north slope of Deer Park Mountain, Trail Mining Division, British Columbia. Opened by 2 shafts down respectively 30 and 10 feet. Property idle for two years.

THE BLACK STURGEON MINING CO., OF ONTARIO, Limited.

Capital, $1,000,000. Shares of $1.00 each.

Directors:

Hugh J. Macdonald. | Wm. C. Edwards. | Herbert H. Beck.
Newton C. Westerfield. | Robert H. Agnew. | Geo. A. Hamilton.
Robert J. Blanchard.

Head Office: Rat Portage, Ont.

Formed to explore for, locate and acquire by gift, pre-emption, purchase, lease, discovery, development or exchange, or by any other lawful means any mineral claims or leases of every description, or mines, mining property and mining interest, and to pay for the same partly or wholly in money, or partly or wholly in the shares of the capital stock of the Black Sturgeon Mining Company of Ontario, Limited, wholly or partly paid up or issued as wholly or partly paid up and non-assessable, and to work, operate, sell, lease or otherwise dispose of the same.

BLUE BIRD GALENA MINE.

Owners:

J. L. Montgomery. | D. C. Corbin. | Geo. D. Potter.

Mines Office: Kaslo, B.C.

This mine is situated about four miles from the town of Sandon, Slocan District, British Columbia. 600 feet tunnelling. 60 tons shipped in 1898.

BLUE EYED NELLIE MINING CO., Limited.

Registered 11th March, 1897. Authorized Capital, $1,000,000.

Officers.

Norman McLeod, President.

W. H. Bell, Vice-President. | H. M. Daly, Secretary.

Head Office: H. M. Daly, Secretary, Rossland, B.C.

Mines Office: Norman McLeod, Superintendent, Ymir, B.C.

Owns and is developing the Blue Eyed Nellie mineral claim 1½ miles S. W. of Ymir, on Porcupine Creek, Nelson Mining Division, British Columbia.

BLUE GROUSE GOLD MINES, Limited.

Registered in British Columbia, 18th January, 1899. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Directors:

Harold E. Foster. | C. C. Woodhouse, jr. | F. M. Wells.

Head Office: Rossland, B.C., C. O. Barness, Secretary.

C. C. Woodhouse, jr., Managing Director and Consulting Engineer.

Formed to purchase the "Millie Mack" and "Triumph" mineral claims, situated on the Blue Grouse Mountain, Arrow Lake Mining Division, West Kootenay District, in the Province of British Columbia. The properties are held by the Kamloops Mining and Development Company, Limited, from whom, at date of report, a sale to the company was pending.

BLUE NOSE GOLD MINING CO., Limited.

Incorporated 1896. Authorized Capital, $50,000, in Shares of $100.00.

Directors :

Simon A. Fraser. | Thos. Cantley. | John W. Fraser. | A. G. McNaughton.
John Craig.

Head Office : John Craig, Secretary, New Glasgow, N.S.

Mines Office : A. G. McNaughton, Superintendent, Goldenville, N.S.

The gold areas controlled by this company number 166, and comprise the Caledonia, Cobourg, Woodbine and Springfield properties at Goldenville, in the Sherbrooke district, Province of Nova Scotia. Size of vein worked, 12 to 15 inches ; yielding 6 dwts. per ton. Produced in 1896 423 ounces from 1,536 tons of rock milled ; three months work only ; 1897, 1,939 oz. 13 dwts. were won from 7,983 tons of rock milled. 1898 : 3,664 ozs. from 10,445 tons rock crushed. The plant comprises :

Stamp Mills—(Old) 12 stamps ; (new) 20 stamps, steam-driven ; 40 h.p. horizontal multitubular boiler ; compound condensing engine ; weight stamps 850 lbs. ; speed 80 p.m. ; wire screen 40 mesh ; Hammond ore feeders; Forster ore breaker.

Boilers in place—Two multitubular ; two upright.

Drills—Ingersoll-Sergeant.

Hoisting Engines in place—Two, built by Fraser Bros., New Glasgow.

Pumps—Four in place, Cornish.

BLUE POINT MINING AND MILLING CO., Limited.

Incorporated 1897. Authorized Capital, $125,000, in Shares of 25 cents each.

Directors :

D. C. McMorris. | Wm. Seaman. | Chas. Aldright. | E. A. Smith.
M. M. Grothe. | W. J. White.

Head Office : D. C. McMorris, Kaslo, B.C.

Formed to acquire and work the "Blue Point" and "Continent" mineral claims, two miles north of Sanca, Ainsworth Mining Division of British Columbia.

B. N. A. MINES, Limited.

Authorized Capital, $1,000,000, in Shares of a par value of $1.00.

Directors:

Robt. V. Green. | Lachlan McLean. | T. E. Cronin.

Head Office: Kaslo, B.C.

Formed to purchase the "B. N. A," "Humming Bird," and "Onoko" mineral claims, situated on the east side of the South Fork of Kaslo Creek, in the Ainsworth Mining District, British Columbia.

BOERTH MINING COMPANY OF ONTARIO.

Incorporated 23rd November, 1898. Authorized Capital, $1,250,000, in Shares of $1.00.

Directors:

Henry J. Boerth, Detroit, Mich. | Wm. Baker, Detroit, Mich.
Abraham Marymont, Detroit, Mich. | Geo. H. Heywood, Detroit, Mich.
C. G. Groesbeck, Detroit, Mich. | John W. Cook, Tp. Clarendon, Ont.

Head Office: Windsor, Ont.

Formed under the provisions of the Ontario Mining Companies Incorporation Act to carry on, in all their branches, the operations of a mining, milling, reduction and development company.

BONDHOLDER MINING CO., Limited.

Incorporated 1896. Authorized Capital, $1,000,000.

Directors:

R. G. Tatlow. | C. T. Dunbar. | E. P. Davis.

Head Office: R. G. Tatlow, Managing Director, Vancouver.

Mines Office: R. C. Campbell-Johnstone, M.E., Manager, Bondholder Mine, Slocan City, B.C.

Owns and operates the "Bondholder," "Pine Log," "Lone Star," and "Rosebud" mineral claims, situate between Springer and Ten Mile Creeks, in the Slocan Division of West Kootenay, Province of British Columbia.

BON DIABLE MINING COMPANY, Limited

Incorporated 27th November, 1896. Authorized Capital, $75,000 in Shares of $1.00.

Directors:

A. C. Carew. | Chas. E. Costerton. | Leopold S. Simons.
S. C. Smith.

Head Office: Chas. Costerton, Sec., Vernon, B.C.

Owns and is developing the Bon Diable, Smiling Tom and Red Rover mineral claims, situate 3½ miles north-east of Vernon, Yale Mining Division, British Columbia.

BONHEUR BELLE GOLD MINING CO. OF NORTH WESTERN ONTARIO, Limited.

Incorporated 27th April, 1898. Authorized Capital, $500,000, in shares of $1.00.

Directors:

Major Robert Cartwright, Ottawa. | R. W. Leonard, C. E., Montreal.
Lt.-Col. Cotton, Montreal. | W. G. Hurdman, Ottawa.
A. H. Macdonald, Guelph.

Head Office: Corner Sparks and Metcalfe Streets, Ottawa.

Formed to carry on a mining, milling, reduction and development company. Owns and is developing the Bonheur Belle mineral claim, Rainy Lake District, Ont.

BOSTON & BRITISH COLUMBIA COPPER MINING AND SMELTING CO., Limited.

Officers:

John F. Merrill, President.
Seth E. Benson, 1st Vice-President. | Theo. W. French, 2nd Vice-President.
George W. French, Sec. and Treas. | George W. Beach, Manager,
and William Crosbie, Manager.

Directors:

John F. Merrill. | George W. French. | Seth E. Benson.
E. H. Hamblen. | William Crosbie. | Theo. W. French.
George W. Beach.

Head Office: George W. French, Treasurer, Room 87, International Trust Co. Bdg., 45 Milk St., Boston.

BOSTON AND BRITISH COLUMBIA MINING CO., Limited.

Authorized Capital, $1,500,000, in $1 shares.

Officers :

John E. Coleman, President. | B. E. Snipes, Vice-President.
J. W. Dryden, Sec.-Treas. | Robert Stevenson.

Head Office : Seattle, Wash.

Branch Office : 53 State Street, Boston.

Mines Office : Robert Stevenson, Granite Creek, Yale District, B C.

Owns some 200 acres of bar and bench claims on the right bank of Granite Creek, Yale Mining Division of British Columbia.

BOSTON AND NOVA SCOTIA COAL CO., Limited.

The properties of this Company, comprising the Broad Cove and Chimney Corner groups, situated in Inverness County, Cape Breton, were reported in 1899, to have been acquired by D. D. Mann and associates.

Head Office : D. D. Mann, Board of Trade Building, Montreal.

BOTHWELL OIL AND GAS CO.

Incorporated 1896. Authorized Capital, $250,000, in shares of $50.00.
Paid-up Capital, $70,000.00.

Directors :

H. A. Walker, Walkerville. | Isaac De Graff, Detroit.
W. T. De Graff, Detroit. | J. H. Walker, "
Nathan Wade, Bothwell.

Head Office : Walkerville, Ont.

Formed to drill and operate for petroleum and gas in the Province of Ontario. At present operating 39 wells in Township of Zone.

BOULDER MINING CO., OF ONTARIO, Limited.

Incorporated under Ontario charter 13th April, 1899. Authorized Capital, $2,000,000, in shares of a par value of $1.00.

Directors:

E. T. LeClair, Minneapolis, Wis. | John R. Gifford, Rat Portage, Ont.
W. J. Graham, Minneapolis, Wis. | Allen McLennan, Rat Portage, Ont.
J. W. Short, Rat Portage, Ont.

Head Office: J. R. Gifford, M.E., Rat Portage, Ont.

Formed to carry on Mining in the Province of Ontario.

BOUNDARY CREEK MINING AND MILLING CO., Limited.

Registered 21st Oct., 1896. Authorized Capital, $1,500,000, in shares of $1.00.

Directors:

D. W. Holbrook, President.
D. A. Holbrook. A. C. McKenzie. J. W. Nelson. C. A. E. Shaw.
J. W. Nelson, Secretary-Treasurer.

Head Office: Greenwood, B.C.

The company owns and is developing a group of 12 mineral claims near the town of Greenwood, in British Columbia. An option has been given to the London and Canada Syndicate of 36 Lombard Street, London, E.C., upon all of the unalloted Treasury stock in the company amounting to about 480,000 shares for a period of eighteen months upon the conditions that the first 250,000 shares shall be delivered upon the payment of five cents per share to the credit of the company, and the remainder upon payment therefor of ten cents per share. That of the 250,000 shares 50,000 shall be taken up within sixty days at five cents per share, and a further 50,000 within one hundred and twenty days, also at five cents per share. This option to be upon condition that upon failure to take up the said shares within 60 days and 120 days respectively as aforementioned, the option shall cease and be at an end. The shares to be issued in the name of D. W. Holbrook as trustee for the company and to be placed in the Bank of Montreal, Rossland, in

BOUNDARY CREEK MINING AND MILLING CO.—Continued.

escrow upon the foregoing terms. The instructions from the purchasing syndicate to the bank in connection with the transaction were also read. From these it was learned that the following are among the conditions agreed to: that Mr. D. A. Holbrook should sell to the syndicate 300,000 shares of his vendor's stock for the sum of $3,000, (this being a concession made by Mr. Holbrook to induce the syndicate to purchase the Treasury stock at the prices named above); that the syndicate be granted the right to nominate and elect a majority of the board of directors, some of the present directors to resign their seats if called upon to do so to allow of this right being exercised; a managing director to be appointed by the syndicate and he to have full power to decide as to the method of working the company's properties and control of all expenditure; and that after payment by the syndicate for 100,000 shares at five cents per share as provided in the option the balance of the shares is to be taken up by the syndicate as in its judgment the proceeds thereof may be required for development work on the company's mineral claims.

BRANDON AND GOLDEN CROWN MINING CO., Limited.

Incorporated 18th March, 1897. Authorized Capital, $1,500,000 in shares of $1.00.

Directors:

Hon. T. Mayne Daly, Q.C., President.

Andrew Kelly, Brandon, Man.	W. A. Macdonald, Q.C., Nelson, B.C.
W. J. Porter, Greenwood City, B.C.	Hon. J. N. Kirkchoffer, Brandon, Man.
W. A. Fuller, Spokane, Wash.	Geo. H. Collins, Greenwood City, B.C.
Frederick Nation, Brandon, Man.	W. J. Lindsay, Brandon, Man.

Wm. Johnston, Brandon, Man.

Head Office. Walter L. Orde, Secretary, Rossland, B.C.

Mines Office: George H. Collins, Superintendent, Greenwood, B.C.

Owns and operates the Golden Crown mineral claim, situate in Wellington Camp, Boundary Creek Division of the Province of British Columbia. The ore is gold-bearing copper pyrites and pyrrhotite in a quartz gangue. At date of report the main tunnel was in 60 feet and was run to cut five small veins, with 280 feet to go to tap a vein, No. 2, at the top of the hill at

BRANDON AND GOLDEN CROWN MINING CO.—Continued.

a depth of 80 feet. One vein, No. 1, of the kind of ore described, 10 to 12 inches wide had been crossed. A shaft had been sunk 60 feet on vein No. 2, which was one to twenty inches wide of decomposed quartz and the sulphides from which high gold assays have been obtained, and the enclosing country rock was somewhat mineralised and also assayed a little in gold. Thirty feet south of No. 2 is vein No. 3, a small vein of quartz and sulphides exposed in a small cut. Vein No. 5, as exposed by a long trench, was three to four feet wide, of quartz, copper, and iron pyrites and pyrrhotite, good samples of which have assayed $35 per ton in all values. At date of report was being equipped with a suitable hoisting and pumping plant. No report for 1898.

BRIDGE RIVER AND LILLOOET GOLD MINING CO., Limited.

Authorized Capital, $750,000, in Shares of $1.00.

Directors:

E. A. Colquhoun. | R. A. Lucas. | Geo. Allan. | G. A. Bower. W. J. McMillan.

Head Office: Vancouver, B.C.

Formed to acquire the claims of the Bridge River Gold Mining Co., Limited, on or adjacent to Bridge River, etc.

BRIGGS-PHILLIPS MINING CO., Limited.

Registered 25th March, 1897. Authorized Capital, $1,500,000.

Canadian Office: Robinson P. Briggs, Supt., Kaslo.

Head Office: A. M. Phillips, Secretary, Spokane, Wash.

Owns and is developing the Briggs-Phillips group of mineral claims on South Fork of Kaslo Creek, nine miles from the Town of Kaslo, Slocan District, British Columbia.

BRIGHT PROSPECTS GOLD MINING AND DEVELOPMENT CO., Limited.

Registered 27th March, 1897. Authorized Capital, $500,000, in Shares of a par value of $1.00.

Officers:

Sidney S. Taylor, President.
James Lawrence, Vice-President. H. M. Vincent, Man. Dir.
Chas. Waterman, Treas. H. G. McCulloch, Secretary.

Head Office: Nelson, B.C.

Owns and is developing the Northern Light, Northern Light Extension, Northern Light Fraction and Turk mineral claims on Forty-Mile Creek, 14 miles from Nelson, B.C.

BRITISH AMERICA CORPORATION, Limited.

Registered 1897. Authorized Capital, £1,500,000, in Shares of £1; all the shares have been issued and are fully paid, 500,000 (Vendors) being issued credited as fully paid. In December, 1897, 1,000,000 shares were offered at par by the London and Globe Finance Corporation, Limited, to shareholders of that company only, payable 10s. per share on application, and 10s. on allotment. The London and Globe Finance Corporation guaranteed £500,000 of this capital.

Directors:

The Marquess of Dufferin and Ava.
Right Hon. Lord Loch. | Edward A. Hoare.
Lord Wm. Beresford, V.C. | Whitaker Wright.

Head Office: F. A. Labouchere, Secretary, 43 Lothbury, London, E.C., England.

CANADIAN OFFICES:

Vancouver: The Hon. C. H. Mackintosh, Managing Director.
Rossland: W. A. Carlyle, Ba.Sc. M.E., Mining Engineer-in-Chief.

At date of going to press the following properties had been acquired under option and otherwise, and arrangements were being made for their vigorous development. The following particulars are excerpted from a circular letter issued to the shareholders on the 26th March, 1898:

BRITISH AMERICA CORPORATION—Continued

"*District of Rossland, B.C.*—The mines purchased include the following properties, viz.: Lucky Queen, Surprise, You Know, Number One, Rockingham, West Le Roi, The Kla, Josie, Poorman, Oreornogo, Nickel Plate, Golden Chariot, Great Western, Golden Dawn, Columbia Kootenay, Tip Top, Copper Jack and Black Eagle.

"*Sophia Mountain District, B.C.*—The Corporation owns the Whoop-Up and Tootsie mine, which adjoin the Velvet mine property, upon which successful developments are said to have been made. The corporation has also ten adjacent claims under option.

"*Boundary Country, B.C.*—The corporation has purchased the Algonquin group of mines, covering an area of over 800 acres, situate on Castle Mountain near Christina Lake, in the Grand Forks mining division, Yale district, viz.: Bryan, Lala Rookh, Red Jacket, Calumet, Keewaydin, Hermit, Gogebic, Tartar, Hottentot, Buckhorn, Arctic, Golden West, Oberon, Monarch, Mirror, Iroquois and Algonquin.

"*West Kootenay, B.C.*—In the Salmon River country, south of Nelson, in the Wild Horse district, the corporation has purchased five properties, viz.: Argenteuil, Hawkeye, Murphy, Katharden and Mist Fraction.

"*East Kootenay, B.C.*—This corporation owns the Hoskins group, on the west side of Perry creek, and known as the Perry, Maybe, Emma, Southern Girl, Gold Bug, Bozeman and Manhattan. Four distinct reefs have been opened, varying from four to 25 feet in width, the ore being free milling.

"The corporation has under option many properties in the Yukon country, but only one concession so far has been acquired conjointly with the London and Globe. It consists of a 20 years' dredging lease of 50 miles of River beds."

Le Roi Mine.—In December this property was taken over by the Le Roi Mining Company, Limited, a subsidiary Company, promoted by the Corporation.

For the following description of the work done on the properties of the Corporation we are indebted to the Report of the Minister of Mines:—

Columbia and Kootenay.—D. J. Macdonald, Superintendent. 50 persons employed at date of report. On this property about 4,700 feet of work, comprising drifts, cross-cuts, raises and winzes, has been done, of which, 3,200 feet was done in 1898. There are now four tunnels running into the mountain along the ledge, of which Nos. 3, 4, 5 and 6 are at present being advanced, the lower, or No. 6,, being about seven hundred feet below the crest of the mountain, and four hundred feet above the bottom. In these tunnels the vein is found to be very straight, or with very few dislocations, and to vary in width from a few inches to over 30 feet of nearly solid pyrrhotite. Tunnels 3, 4, 5 and 6 are respectively 1,200, 800, 700, and

BRITISH AMERICA CORPORATION—Continued.

150 feet long, and are being connected by raises for ventilating and exploring purposes. Many cross-cuts are also being run, exposing large bodies of ore of varying value. The 20-drill Ingersoll-Sergeant compressor supplies abundant power through a six-inch main running up the hillside past the tunnels.

Great Western and Nickel Plate.—W. S. Haskins, Superintendent. Number of men employed, 45. On the *Great Western* a two-compartment shaft was sunk 230 feet, and drifting has been in progress along the vein at the 200 foot level. However, sinking has been resumed and the 300 foot level will be run out when that point is reached. Since pumping out the *Nickel Plate* in April, work has been confined to the 200 foot level, where nearly 2,000 feet of drifting and cross-cutting has been done, disclosing two veins 300 feet apart, 6 to 30 inches wide, of chalcopyrite-pyrrhotite ore, assaying from $2.00 to $22.00 in gold, and 3% to 12% copper. A 10-drill Ingersoll-Sergeant compressor, with two 60 h.p. boilers, water jet condenser, etc. supplies air for these two properties when 5 to 7 drills are working.

Josie and Number One.—John M. Long, Superintendent. 50 persons employed in 1898. On the *Josie* work has been confined to extending the 300 foot level and its cross-cuts, and 1,250 feet of work is the result. To the east end a chute of good grade ore, as yet 50 feet long and 2 to 7 feet wide, is now being explored by a raise to the 100 foot level. In the west two veins have been found by cross-cutting, and drifts are now being run along these.

On the *Number One* a tunnel was begun and driven 450 feet, dislosing one ore chute nearly 200 feet long, 2 to 7 feet wide, of quartzose ore carrying gold, silver and copper, with values carrying from $6.00 to $25.00 per ton. East of this point a vertical two-compartment shaft was sunk 220 feet, and at the 200 foot level a drift has just disclosed a wide ledge running east and west, with a good width of ore near the hanging wall. Power for these two properties is got from a 4-inch main from the Le Roi compressor, and a steam hoisting plant is at each mine, where, eventually, electric hoists will probably be installed. Six drills have been at work, but soon ten to twelve will be running.

BRITISH AMERICA DEVELOPMENT CO., Limited.

Registered 12th Febrnary, 1898.

Officers:

George A. Stanton, President.

Chas. A. Trowbridge, Treasurer. Seymour Kisch, Secretary.

Head Office: Jersey City, N.J.

Canadian Office: H. T. Ceperley, Vancouver, B.C.

BRITISH AMERICAN COAL CO., Limited.

Incorporated 5th January, 1898. Authorized Capital, $100,000, in 1,000 shares of a par value of $100.

Directors:

Clarkson Jones, Toronto.
W. T. Jennings, Toronto.
John J. Kingsmill, Toronto.
Frederick Wyld, Toronto.
Chas. J. Myles, Hamilton.
John Flett, Toronto.

Head Office: Toronto, Ont.

Formed to mine and extract coal, and generally to carry on the trade and business of colliery proprietors, miners and mining engineers in all their branches.

BRITISH AMERICAN GOLD MINING CO., Limited.

Registered 12th January, 1897. Authorized Capital, $1,500,000, in shares of $1.00.

Officers:

R. L. Murchison, President.
J. H. Good, Sec.-Treas. T. Vipond, Superintendent.

Head Office: Rossland, B.C.

Owns the Copper King mineral claim, on the north bank of the Kootenay River, eight miles from the Town of Nelson.

BRITISH AMERICAN GOLD MINING & TRADING CO.

Canadian Office: Major Moore, Ashcroft, B.C.

This Company acquired the properties on Lightning Creek, Cariboo District, British Columbia, formerly owned and worked by the Lightning Creek Gold Gravels and Drainage Company. In 1898 operations were commenced to drive a tunnel to drain the old channel of Lightning Creek. It is estimated that the total length of the tunnel and open cut to bed-rock in the old channel will be 8,000 feet.

BRITISH AND CANADIAN GOLD AND SILVER MINES CO., Limited.

Incorporated under Dominion charter, 21st October, 1896. Authorized Capital, $15,000, in 150 shares of a par value of $100.

Directors:

N. Clark Wallace, M.P. | J. G. Hallett. | J. C. Thorn.
S. W. McMichael. | J. J. Cook. | J. Armstrong.
J. A. Ferguson.

Head Office: Toronto, Ont.

Mines Office: J. Franklin McIntosh, Kaslo, B.C.

Formed to explore for, purchase, lease, acquire, own, sell, dispose of, work and develop mines and mineral lands.

BRITISH CANADIAN CORPORATION, Limited.

Offices: 16 Copthall Avenue, London, E.C.

This Company was registered on the 24th December, 1897, by Cutler & Co., 15 Duke Street, London, S.W., England, to acquire and deal with mining and other properties in Canada or elsewhere.

BRITISH CANADIAN FINANCIAL CORPORATION, Limited.

Authorized Capital, £500,000, in shares of £1.

Head Office: St. Ermains Mansion, London, England.

Canadian Office: W. J. Harris, Rossland, B.C.

Owns and is developing the Lily May, Lily May Fraction and Black Horse mineral claims, near Rossland, and 14 claims on Deer Park and Look-out Mountains, Trail Creek District, British Columbia.

BRITISH CANADIAN GOLD FIELDS EXPLORATION, DEVELOPMENT AND INVESTMENT CO., Limited.

Registered in British Columbia, 14th September, 1898. Authorized Capital, $2,500,000, in shares of a par value of $1.00.

Directors:

Hon. G. E. Foster, M.P., President.

Dr. W. T. Stuart.	S. F. McKinnon.	Lieut.-Col. Prior, M.P.
S. Bassett.	G. C. McKindsey.	Dr. T. Millman.
T. S. Stayner.	H. W. M. Murray.	G. A. Farini.
J. W. Dyas.	Lt.-Col. D. Spence.	S. McLaren.

D. J. McLeod. George Gillies.

Head Office: F. A. Hall, Secretary, Toronto, Ont.

C. B. Murray, Eastern Manager.

Mines Office: Nelson, B.C.

Owns, among other claims in British Columbia, the Golden Wedge, 2,000 feet above the town of Oro, at the junction of the Second North Fork with Lemon Creek, Slocan Mining Division. An upper cross-cut 50 feet, and drifting on the vein 300 feet. A lower cross-cut, 175 feet long, taps the vein at about 200 feet lower down; 100 feet of drifting on the vein at this point. The ore body is a free milling quartz in the common granite country rock. A sleigh road of two miles connects the mine with the townsite of Oro, where considerable progress has been made, consisting of a saw-mill of 10,000 feet per diem capacity, flume 2,000 feet long, mine offices, assay office, and construction of a 10-stamp mill expected to be in commission during February. This mill will be run by Pelton wheel, under head of 150 feet, and is made by Jenckes Machine Company, of Sherbrooke, Que. It is the first to be built in the Slocan, and is in a position to do custom work for the many, more or less free milling quartz, ore bodies in the vicinity, should such be desirable. Connected with the mine and mills some 50 men are employed.

BRITISH COLUMBIA AGENCY, Limited.

Registered 3rd November, 1896. Authorized Capital, £100,000, in 100,000 shares of £1 each; 11,017 shares have been issued, 9,507 being fully paid, 1,510 having 5s. per share called up.

Directors:

Sir E. Robert Pearce Edgcumbe.

F. A. Gillam.	Barclay Bonthrone.	John Secar.
	H. Burkley Praed.	

Head Office: J. W. Clark, 15 and 16 George Street, Mansion House, London, E.C.

Canadian Office: Barclay Bonthrone, Vancouver, B.C.

Formed to acquire mining and other properties in British Columbia.

BRITISH COLUMBIA AND NEW FIND GOLD FIELDS CORPORATION Limited.

Registered 3rd August, 1897. Authorized Capital, £500,000, in 497,000 ordinary shares of £1 each, and 3,000 deferred shares of £1 each; ordinary and deferred shares have been issued, the deferred being fully paid, and the ordinary 20s. per share called up. In August 1897, 100,000 ordinary shares were offered for public subscription, payable 2s. on application, 3s. on allotment, 5s. on the 1st October, 1897, and the balance in calls of 5s. each at intervals of not less than two months. The last call made was 5s. payable on the 17th February, 1898. Subscribers were entitled to apply for one deferred share at par, payable in full on application for every 100 ordinary shares subscribed. The deferred shares do not participate in the profits until 10 per cent. for any year has been paid on the ordinary shares after which they are entitled to one-half of the remaining profits of such year.

Directors:

Arthur Fell. | Lt.-Col. Lord Charles R. Pratt. | T. A. Yarrow.

Canadian Directors:

Hon. J. H. Turner. R. P. Rithet. Hon. E. G. Prior. Thos. B. Hall.

Head Office: John A. Turner, 46 Queen Victoria Street, London, E.C.

CANADIAN OFFICE:

G. A. Kirk, Local Secretary, Victoria, B. C. E. Nelson Fell, Mining Engineer, Nelson, B.C.

Formed to carry on an exploration, finance and agency business in the Province of British Columbia, or elsewhere. (See also Athabasca Mine, Limited.)

BRITISH COLUMBIA & NORTH-WEST TERRITORIES EXPLORATION SYNDICATE, Limited.

Authorized Capital, £30,000, in shares of £1.

Secretary and Offices: W. Sutton Wyman, 6 Old Jewry, London, E.C.

Registered 8th January, 1898, to adopt an agreement dated 3rd January, 1898, with B. Hansell, for the acquisition of four claims situate at Copper Camp, Kettle River Mining District, British Columbia. The purchase consideration was £22,500, payable £1,000 in cash and £21,500 in fully paid shares.

BRITISH COLUMBIA BULLION EXTRACTION CO, Limited.

Registered 11th May, 1897. Authorized Capital, £40,000, in 40,000 shares of £1 each. 12,006 shares have been issued and 10s. per share called up.

Directors:

Maj.-Gen. C. E. Webber, C.B., Chairman.
Lieut.-Gen. Sir J. Bevan Edwards, C.B., M.P. Louis Pelatan.
Wilberforce Bryant.

Head Office: Richard Fleming, Secretary, 27 Chancery Lane, London, W.C.

Canadian Office: Rossland, B.C.

Formed to acquire and turn to account mines, mining rights, etc., in British Columbia or elsewhere, and inventions for the extraction of metals from their ores.

The Company owns the patent rights of the Pelatan-Clerici process in Ontario and British Columbia, and part of its business will be to erect plants wherever required in either of these provinces. A milling plant has been constructed and is now in operation at Silica, a siding on the Red Mountain Railway, 3 miles south-west of Rossland.

The ore is delivered to the works by a railway siding connected at both ends with the main line. Situated on this siding are bins with a capacity of 800 tons and a track scale, so that every carload of ore can be weighed before being dumped. The ore is first fed automatically to a 9 x 15 Blake rock crusher, and then by gravity through two sets of 16 inch Cornish rolls, one above the other, the first set being belted and the lower set geared. The pulp is thus elevated 40 feet by a bucket elevator which delivers it into a Constant sampler, then into a Brunton sampler, and finally into a three-compartment ore bin. From these the pulp is fed by James automatic ore feeders into two Chilian mills at a fineness from 10 to 30 mesh. Here water is added and it is reduced to a fineness of from 60 to 100 mesh and passed through 60-mesh screens. Thence by gravity it is fed into four agitator tanks which keep the pulp in continual agitation, and act as storage tanks ready at any time to feed any of the 12 Pelatin-Clerici cyanide treatment tanks below. In these caustic soda is added to make the pulp alkaline. In the treatment tanks it is again kept agitated for a period of from 10 to 12 hours, cyanide of potassium having been added. The cyanide attacks the gold, forming a gold solution, which is precipitated by the aid of an electric current on the mercury cathodes which cover the entire bottom of each tank. The pulp is then

BRITISH COLUMBIA BULLION EXTRACTION CO.—Continued.

discharged and the tank is recharged for another operation. A clean-up of the precious metals recovered on the mercury cathodes is made at intervals ranging from 10 to 15 days.

At present when the pulp is discharged from the treatment tanks the tailings are impounded below the mill after passing over a short flume with riffles, where any mercury which may have escaped is recovered. It is the intention to shortly place concentrating tables in the basement of the mill, below the treatment floor, when the pulp which has been impounded will all be worked over and all pulp from the treatment tanks will be run over the concentrating table before being discharged from the mill. In this way it is expected to recover a portion of the gold (a very small percentage of the assay value of the ore) which escapes from the treatment tanks, and also, the copper sulphides which experience has demonstrated are not affected by the cyanide solution at all.

The mill as at present equipped has a crushing capacity of 150 tons per day, while the treatment capacity is only about 80 tons The upper half of the mill is therefore only run about 10 hours out of the 24. In erecting the building, however, everything was so planned that the lower half of the mill could be easily and quickly doubled, and this work will be proceeded with at an early date.

An interesting feature of this mill is the power supply which is obtained from the West Kootenay Power and Light Company, at Bonnington Falls, on the Kootenay River, 30 miles from Rossland and 33 miles from the mill. The current is delivered at 2,080 volts to two motors. The one which drives the upper portion of the mill or crushing machinery is a 50 h.p. Induction motor, and the other is a 75 K.W. Synchronous motor furnishing power for the lower half. These motors were furnished by the Canadian General Electric Company, and are most handsome machines.

For treatment of the ore in the Pelatan-Clerici tanks the electric current is a direct current generated by two electrolytic dynamos, each with a capacity of 12 volts by 750 amperes. The plant and buildings are all lit by electricity with the aid of three lightning transformers which receive the current direct from the main power supply line. The current consumed is paid for on a meter basis, regulated by a meter situated on the nearest pole to the works.

The water supply is obtained from Little Sheep Creek by means of a flume 3,000 feet long, which taps it that distance above the works. The Company also has another water right on Spokane Creek, which it expects ultimately to improve and utilize as a power supply.

BRITISH COLUMBIA (CHINA CREEK) GOLD MINES, Limited.

Registered 3rd September, 1897. Authorized Capital, £11,000, in shares of £1; 10,000 shares have been issued and are fully paid, 9,000 (vendor's) being issued credited as fully paid.

Directors:

E. F. V. Knox, M.P. W. C. Stennett. E. Wragge.

Head Office: J. B. MacKnight, 15 Railway Approach, London Bridge, S.E.

Formed to adopt an agreement with E. Wragge, and to purchase develop, and to sell to subsidiary companies or otherwise, gold mining or other properties in British Columbia and elsewhere. By an agreement dated 3rd August, 1897, the company acquired nine claims, situated at China Creek, West Kootenay, British Columbia, the purchase consideration being £9,000 in fully paid shares.

BRITISH COLUMBIA CONSOLIDATED GOLD MINING CO.

Registered 21st Sept., 1896. Authorized Capital, $1,000,000, in shares of $1.

Officers:

Robert Hunter, President.

J. H. Adams, Vice-President. D. D. Birks, Secretary-Treasurer.

Head Office: J. H. Adams, Managing Director, Rossland, B.C.

Owns and is developing the B. C. mineral claim, near Rossland, British Columbia.

BRITISH COLUMBIA COPPER CO., Limited.

Registered 26th April, 1898. Authorized Capital, $1,000,000, in shares of $5. Annual meeting in February.

Directors:

Paul Babcock. | H. L. Horton. | C. J. Laidlaw.
F. L. Underwood. J. F. Tichenor; all of New York.

Officers:

F. L. Underwood, President.
James F. Tichenor, Vice-President.

BRITISH COLUMBIA COPPER CO.—Continued.

Head Office: Chas. E. Morris, Secretary, Room 1,200, 31 Nassau Street, New York.

Mines Office: Frederic Keffer, Mine Manager, Anaconda, B.C.

Owns and operates the "Mother Lode," "Offspring," "Tenbrock" and the "Primrose," mineral claims, situated at Deadwood Camp, Kettle River Mining Division, of the Province of British Columbia, about 3½ miles N.W. of the town of Anaconda. The following particulars have been furnished by the mine manager:—

The surface showing of the Mother Lode may be rightly described as enormous. It is perhaps, the most striking in the district, the outcropping of the large ore body standing out prominently for 1,050 feet along the hill in which it occurs, and rising to a height of nearly 300 feet. The lode has a strike approximately north, 25 degrees east, and it lies between lime and porphyry formations. Its width on the surface naturally is not so well defined as it is in the tunnel below, but it appears to cover a distance of nearly 200 feet. The work done by the locators was chiefly surface prospecting, of which they did a great deal. Low down the side of the hill they ran a tunnel through the lime formation, but at 12 feet they were in ore, and this work was not continued. On top of the hill a shaft was put down 20 feet in the lode near the point of contact with the lime. Numerous cuts were also made and holes sunk, ore showing in nearly all of these. In September, 1896, work in a more systematic manner was begun by the present owners, and it has been continued almost without interruption up to the present time. The shaft was sunk five feet deeper, and a fair quality of ore was taken out of it, but as it entered the lime wall at 25 feet it was decided to stop sinking and to put in a crosscut tunnel, to test the value of the ore body at a greater depth. The tunnel was commenced at a point 100 feet above the level of the base of the hill, near the west line of the claim, and about 600 feet from the lower end line. The hill rises directly above the tunnel 100 feet higher, and the highest point of the ore body farther back is 86 feet higher still, so that if a tunnel were run in at the lowest practical level along the ore body it would give a maximum depth of 286 feet. The dimensions of the tunnel are six feet six inches by five feet. The first 42 feet from the mouth of the tunnel was driven in white limestone. The footwall side of the ore body was then encountered, and from this time until the other side of the lode was reached, 245 feet from the tunnel mouth, the work was continually in ore—that is, the length of crosscut in the ore is 203 feet. Allowing for the somewhat diagonal course of the first part of the tunnel, the distance across the lode, measured at right angles, is 185 feet. The porphyry encountered at 245 feet if separated from the lode by gouge matter, which

BRITISH COLUMBIA COPPER CO.—Continued.

is perfectly free, not being "frozen" to the hanging wall as is frequently the case.

The ore found immediately next to the limestone footwall was of good quality, but beyond this up to 146 feet from the mouth of the tunnel the grade was low. At 146 feet ore having much higher values was found, and this ore continued for a distance of about 80 feet, or to within 20 feet of the hanging wall. From here to the hanging wall the ore was very poor. The gangue of the lode matter met with in the tunnel in to about 146 feet is mostly silicates of iron, lime, alumina and magnesium, with more or less crystallised carbonate of lime. Thence to 185 feet it is chiefly oxide of iron, with some silicates. For the remaining distance it resumes its former character. In the main the ore is of such a nature as to be self-fluxing, or would require the addition of but little flux for smelting.

Although not much of the ore found in this tunnel would pay to smelt directly without preliminary treatment, still the improvement over the surface showings was so marked that it was decided to sink a winze 100 feet and then crosscut again. This work was soon begun, but water came in so freely as to make sinking a slow and very expensive task. However, the 100 foot level was reached, and crosscutting was then begun. The first crosscut was run toward the the footwall, and it was continued 12 feet, or until a stratum of poor ore was encountered. (It should be mentioned that the winze was begun 152 feet in from the mouth of the tunnel, or six feet inside the line of good ore mentioned above as occurring in the tunnel at 146 feet.) The mean assay values of the first six feet of the ore in the crosscut, taking all rock, good and bad, gave $18.50 per ton. Of the first nine feet it was $15.50 per ton, and of the whole twelve feet it was $12 per ton. Assorted ore—that is, ore with the waste taken out—assayed on an average $30 per ton for the twelve feet. The best ore ran $45 per ton, and the copper values in it were about twice the gold values. The crosscut was next run toward the hanging wall. For 38 feet the mean value of the ore (good and bad) obtained here was $8.50 per ton. With waste taken out it averaged $12 to $13 per ton, while more carefully sorted ore ran nearly $17 per ton. The ore was fairly uniform here, although there were five to six feet of it in one place which, roughly sorted, assayed $16 to $17 per ton. At the end of the 38 feet a "horse" of barren rock was found running diagonally through the ore body, at nearly right angles to the hanging wall. This "horse" was about four feet in thickness, and owing to its inclined position the crosscut was in it for some 12 or 15 feet, the ore tapering out above and in below the barren rock. Immediately beyond the "horse" the ore was not very good, although well mineralised, for the copper pyrites was replaced by iron pyrites with but little gold. From 60 feet to the hanging wall, which was found 11 feet farther on, or 71 feet from the winze, the ore greatly improved.

BRITISH COLUMBIA COPPER CO.—Continued.

From 60 to 65 feet the mean value was $10.50 per ton, and with waste taken out was $18 per ton. From 65 to 71 feet the mean value was $16 per ton, and with waste taken out was $25 per ton. None of the assays given include the silver in the ore, as there was seldom more than two or three ounces of this metal present, and usually the amount was not over one ounce. The assays are all "wheel-barrow samples," that is from every barrow and from every bucket of ore taken out of the mine a few pieces were placed in a box, and from each piece in the box a smaller piece was broken for the sample. In this way it is believed that the samples truly represent the mine, and are not merely "show assays."

This work having been accomplished, it was decided to equip the property with a power plant. Accordingly, in March of 1898 the following machinery was purchased:—One 10-drill Ingersoll-Sergeant Air Compressor with drills, etc.; one Lidgerwood hoist; one Knowles sinking pump; one Cameron station pump; two duplex pumps for boiler and other uses; two 60 horse power boilers; one feed water heater; one electric light plant; together with a half mile of pipe, cars, buckets, track rails, etc., etc., necessary to install a complete plant. The cost of plant and building completed was $25,000.00.

In September, 1898, work was begun on a shaft locatad near the southern end line of the claim, on the vein, near the hanging wall side. This shaft, which will be the main working shaft of the mine, is a double compartment one, each compartment being 4½ x 5 feet in the clear. It is heavily timbered throughout with 12 x 12 inch timbers, and at present is 215 feet deep. The man-way is so arranged as to guard against any possible accident, there being platforms placed every 15 feet, and inclined ladders leading from platform to platform, with guard rails to prevent falling.

At the 200 foot level a station 16 x 20 feet, all in ore, has been cut out. Cross-cuts have been run from this station about 100 feet on either side to prove the ore body. A drift has been started to the south to explore the Primrose ground, and another to the north to connect with the old workings. As the drift is some 175 feet deeper than the bottom of the winze, an upraise will be needful to connect, which upraise will furnish ample ventilation, as well as a means of escape in case of accident in the shaft. The northern drift is now advanced some 200 feet, and is being extended at the rate of six feet daily. The ore from the station and drifts is excellent, and better than that found on the higher levels, and shows no signs of giving out.

All the surface work has been arranged so as to economize labor as much as possible, the gallows frame being so constructed as to dump the ore automatically. The various shops are located at convenient distances from the shaft mouth. There has just been completed a dormitory for the miners,

BRITISH COLUMBIA COPPER CO.—Continued.

arranged with an eye to the comfortable housing of the miners, who have separate rooms and beds, as well as a bath room provided with hot and cold water, a drying house for wet clothes, and general sitting rooms, etc. A number of houses have been also built for married men.

The boilers and engine foundations are of the most solid description and the floors are, in the engine house, laid in concrete.

The spur line to the mine is now being built by the Canadian Pacific Railway, grading for the same having commenced about May 1st.

At the present writing (May 15) about $105,000.00 have been expended by this Company, in purchase of property, buildings, machinery and development.

BRITISH COLUMBIA EXPLORATION CO., Limited.

Registered 19th December, 1896. Authorized Capital, $100,000.

Officers:

John Thomas, President.
E. G. Locke, Vice-President. E. N. Ouimette, Sec.-Treas.

Head Office: J. Thomas, Manager, Rossland, B.C.

BRITISH COLUMBIA GOLD DISCOVERY CO., Limited.

Registered 19th May, 1896. Authorized Capital, £100,000, in 100,000 shares of £1 each: 20,000 shares have been issued and paid.

Directors:

A. O. Burton, Chairman. Henry Harris. A. D. Provand, M.P.

Head Office: E. S. McMaster, Secretary, 12 Walbrook, London, E.C.

The Company owns 13 claims in the Trail Mining District of British Columbia.

BRITISH COLUMBIA GOLD SYNDICATE, Limited.

Registered 11th April, 1896. Authorized Capital, £5,000, in 4,900 ordinary shares of £1, and 100 Founders' shares of £1 each: all the shares have been issued and 15s. per share called up.

Head Office: Newman M. Ogle, Secretary, Worcester House, Walbrook, London, E.C.

Formed to carry on the business of mining, smelting and trading syndicate in British Columbia.

BRITISH COLUMBIA GOLD TRUST, Limited.

Registered 10th March, 1897. Authorized Capital, £2,000, in 2,000 shares of £1 : 1,100 shares have been issued and are fully paid.

Directors :

Thos. Wilkins, C.E. F.G.S. | George Shaddick. | Edmund Mitchell.
John I. Jacobs. | G. Stanley Howell.

Head Office : J. Leo Ruth, Secretary, 16 St. Helen's Place, London, E.C.

Formed to carry into effect an agreement with G. S. Howell, and to carry out the usual objects of an exploring and finance corporation ; to secure interests in mining and other properties in the gold fields of British Columbia, and to promote subsidiary companies. An arrangement was made with Theodore C. Cotherill to proceed to British Columbia to represent the Company.

BRITISH COLUMBIA (KETTLE RIVER) MINING AND EXPLORATION CO., Limited

Registered 10th August, 1897. Authorized Capital, £120,000, in 120,000 shares of £1 each.

Head Office : 10 Angel Court, London, E.C.

Formed to acquire the Teutonic, Golden Treasurer, Moonlight, and Clear Grit claims, situate near Greenwood City, in the Kettle River mining division of British Columbia. It is reported that the company was not floated.

BRITISH COLUMBIA LAND EXPLORATION AND DEVELOPMENT COMPANY, Limited.

Registered 28th July, 1896. Authorized Capital, £250,000, in 250,000 shares of £1 each ; 25,000 shares have been issued, and 12s. per share has been called up.

Directors :

Alex. L. Secretan. | Lionel R. C. Boyle. | C. D. Rose.

Head Office : F. A. Kentfield, 13 Austin Friars, London, E.C.

Formed to enter into an agreement with A. L. Secretan and others to carry on all kinds of exploration and promoting business. A number of mining properties in British Columbia have been acquired.

BRITISH COLUMBIA MERCANTILE & MINING SYNDICATE, Limited.

Head Offices: Winchester House, Old Broad Street, London, E.C.

Registered 30th March, 1898, to carry on trading and mining operations. The Authorized Capital is £5,000, in 4,975 ordinary shares of £1, and 500 deferred shares of 1s. each.

BRITISH COLUMBIA MINERAL PROPERTIES, Limited.

Registered 5th February, 1898. Authorized Capital, £200,000, in 100,000 priority shares of £1 each, and 100,000 deferred shares of £1. The priority shares are first entitled to a dividend of 100 per cent., after which the deferred shares participate equally with the priority shares in the profits available for distribution.

Directors:

Chas. James Roberts. | Col. G. B. Pumfrett.
Walter Pluckmett. | Hugh Stanton. | G. B. King.

Head Office: F. G. Stevenson, Secretary, 57-58 Broad Street Avenue, London, E.C.

Formed to acquire options of purchase on mining properties in British Columbia. At an extraordinary meeting of the company, held on 27th February, 1899, the following resolutions were passed:—

"1. That it is desirable that the company be reconstructed and amalgamated with the Klondyke and North-West Territories Exploration Company, Limited, by the transfer of the undertakings and assets of both companies to a new company."

"2. That for the purpose of such reconstruction and amalgamation the company be wound up voluntarily, and that Mr. Herman Hendricks be and he is hereby appointed liquidator for the purpose of such winding-up, at such remuneration as the company at this meeting shall determine."

"3. That pursuant to Section 161 of the Companies Act, 1863, the agreement dated Feb. 9th, 1899, and made between the Klondyke and North-West Territories Exploration Company, Limited, of the first part, this company of the second part, and Francis John Stephens on behalf of a new company intended to be incorporated with the names of the Klondyke and North-West Territories Exploration Company, Limited, of the third part, be, and the same is hereby approved and sanctioned, and the liquidator is hereby authorized to carry the same into effect with such modifications (if any) as he may consider expedient."

BRITISH COLUMBIA MINING COMPANY, Limited.

Registered 29th February, 1896. Authorized Capital, £20,000, in 2,000 shares of £10 each; 801 shares have been issued, and are fully paid, 152 shares having been issued credited as fully paid.

Directors:

Right Hon. the Earl of Warwick, Chairman.

J. E. Johnson-Ferguson, M.P. | A. J. McMillan.
Alfred Baldwin, M.P. | G. W. Wilson.

Head Office: Thomas Winter, Secretary, Suffolk House, Lawrence Pounteney Hill, Cannon St., London, E.C.

Formed to acquire mines and mining rights in British Columbia. Some gold mining claims in the Rossland district have been acquired, and are being developed.

BRITISH COLUMBIAN PIONEERS, Limited.

Registered 3rd August, 1898. Authorized Capital, £20,000, in shares of £1 each.

Head Office: R. A. Noble, Secretary, 139 Cannon St., London, E.C.

Formed to adopt an agreement with A. S. Ellam, and to acquire, develop and work gold mines, mining rights and lands in British Columbia.

BRITISH COLUMBIA PROPRIETARY COMPANY, Limited.

Head Office: 2 St. Michael's House, Cornhill, London, E.C.

This company was registered on the 20th November, 1896, to carry on all kinds of exploration business in British Columbia or elsewhere. The Authorized Capital is £6,000, in 6,000 shares of £1 each; 1,507 shares have been issued, and 4s. per share is called up.

BRITISH COLUMBIA PROSPECTORS, Limited.

Head Office: John Blair, Secretary, 11 Victoria St., London, S.W.

Registered 30th April, 1896, to enter into an agreement with J. M. Mackinnon, and to secure openings for the employment of capital in British Columbia or elsewhere. The Authorized Capital is £10,000, in 10,000 shares of £1 each.

BRITISH COLUMBIA (ROSSLAND AND SLOCAN) SYNDCIATE, Limited.

Head Office : John Cooper, 28 Budge Road, London, E.C.

Canadian Office : John McMillan, Rossland, B.C.

This company was registered on the 8th September, 1897, to adopt an agreement with G. S. Waterlow and J. P. Dickson, and to acquire and deal with mineral lands in British Columbia. The Authorized Capital is £100,000 in 100,000 shares of £1 each.

BRITISH COLUMBIA SYNDICATE, Limited.

Registered 7th March, 1896. Authorized Capital, $100,000, in shares of $5.00.

Officers :

A. D. Provand, President. | C. R. Hamilton, Vice-Pres.
T. S. Gilmour, Sec.

Head Office : Rossland, B.C.

The company is a development syndicate, and owns a number of mineral properties in the Trail Mining District of British Columbia.

BRITISH COLUMBIA VENTURE SYNDICATE, Limited.

Registered 5th July, 1897, and is a reconstruction of a company of the same name. In October, 1897, the company floated the Fraser River Consolidated Gold, Limited. The authorized Capital is £5,000, in 5,000 shares of £1 each ; 2,000 shares were to be issued credited as fully paid, in the proportion of two for each share of the old company.

Directors :

J. S. Hall. | George F. Fulcher.

Head Office : Winchester House, Old Broad St., London, E.C.

BRITISH EAST KOOTENAY SYNDICATE, Limited.

Secretary and Offices: W. E. Clogg, 32 St. Mary St., Cardiff, Great Britain.

Canadian Office: F. Jephcott, M.E., Pilot Bay, B.C.

Registered 15th March, 1898, with an Authorized Capital of £10,000, in shares of £10, to acquire gold mines, mining rights, concessions, &c., in British Columbia and elsewhere.

BRITISH KLONDYKE MINES AND FINANCE COMPANY, Limited.

Registered 27th August, 1897. Authorized Capital, £100,000, in 97,000 ordinary shares of £1 each, and 3,000 deferred shares of £1.

Directors:

A. E. Walton, F.G.S., M.I.M.M. | Capt. W. H. G. Nowell, R.N.
Richard Pearce. | Athelstan Merersel.

Head Office: A. D. Mitchell, Secretary, Blomfield House, 52 New Broad Street, London, E.C.; C. O. Vil Pelle, 19 Rue Louis le Grand, Paris.

Formed to carry on the business of an exploration, trading, finance and agency company in the Province of British Columbia, Klondyke, Yukon and elsewhere. An agreement dated 18th August, 1897, provided for the issue of all the deferred shares and 5,000 ordinary shares credited as fully paid, in consideration for which the Contract and Finance Syndicate, Limited, agreed to pay the Company's preliminary expenses.

BRITISH KOOTENAY EXPLORATION SYNDICATE, Limited.

Head Office: Wm. Hollick, 20 Bucklersbury, London, E.C., England.

This Syndicate was registered on 30th September, 1895, to prospect for and acquire mines, mining or other rights in British Columbia or elsewhere. The Authorized Capital is £10,000, in 10,000 shares of £1 each; 8,000 shares have been issued and are fully paid, 5,500 being issued credited as paid.

BRITISH LION GOLD MINING & DEVELOPMENT CO. OF ONTARIO. Limited.

Incorporated 27th April, 1898. Authorized Capital, $80,000, in shares of a par value of $20.00.

Directors:

Judge Creasor.
A. A. Vernon.
G. W. Gurnett.
George Tizzard.
Alexander Green.
E. A. Matthews.
D. Darrage.
R. W. Evans.
Dr. W. J. Earley.
B. H. Carr.
J. F. Atkins.
W. S. Downs.
J. M. Scott; all of Owen Sound, Ont., and F. Quance, Township of Sydenham.

Head Office: Owen Sound, Ont.

Formed to carry on the business of a mining, milling, reduction and development company in the Province of Ontario.

BRITISH NORTH AMERICAN CORPORATION, Limited.

Registered 4th November, 1897. Authorized Capital, £10,000, in 10,000 shares of £1 each; all the shares have been issued and are fully paid.

Directors:

F. W. Jewell. | Baron J. A. Braam.
C. Edmund Parker.

Head Office: Henry John Self, 59 Moorgate Street, London, E.C.

Formed to acquire mining lands or rights in British Columbia.

BRITISH PACIFIC GOLD PROPERTY COMPANY, Limited.

Incorporated 18th March, 1897. Authorized Capital, $5,000,000 in shares of a par value of $1.00.

Directors:

Hon. T. R. McInnes, Victoria, B.C.
W. H. B. Aikens, Toronto, Ont.
Dr. D. Lowrey, Brantford, Ont.
B. M. Briton, Q.C., M.P., Kingston.
George Gillies, Gananoque, Ont.
Frank Dowler, Guelph, Ont.
Dr. A. T. Watt, Victoria, B.C.
George Powell, Victoria, B.C.
Dr. Frank Hall, Victoria, B.C.
Moses McGregor, Victoria, B.C.
Ald. Chas. Hayward, Victoria, B.C.
Lawrence Goodacre, Victoria, B.C.
James Muirhead, Victoria, B.C.
R. Erskine, Victoria, B.C.
E. A. Morris, Victoria, B.C.
A. B. Erskine, Vancouver, B.C.

Head Office: Williams Building, 28 Broad Street, Victoria, B.C.

Owns, or controls, the New York Group and other claims on Vancouver Island, and also mineral claims in the Yale and East Kootenay Districts of British Columbia.

BRITANNIA MINING CO., Limited.

Directors:

Chas. de W. Smith, President.

A. E. Shaw, Secretary. | Leander Shaw, Superintendent.
E. Churchill. | G. L. Holmes.

Trustee:

Dr. Allen Haley, M.P., Windsor, N.S.

Mines Office: Leander Shaw, Ainsworth, B.C.

Owns and operates the No. 1 mineral claim, located two and a half miles west of the Town of Ainsworth, Ainsworth Mining Division, Province of British Columbia. "This," says Mr. Caryle, "is one of the earliest worked mines in West Kootenay, considerable work having been done at the time of Dr. Dawson's visit in 1889. The ore body, as now developed by large stopes that are from 4 to 12 feet between walls, and nearly 300 feet long, would require very careful study with complete maps and models to explain its formation and relation to the enclosing rocks, which belong to the Slocan slates series that at this point consists of limestones and shales and slates. The existence of many faults of very different strikes and dips has certainly served to increase the apparent irregularity of the ore body, which, while having a general dip throughout the workings, is in places lying flat or dipping in exactly the opposite direction to the main direction, while in one part of the mine the ore-chute, divided into two flat-lying chutes, which the men worked out, leaving but a few feet of barren rock between. The ore is almost unique in its character. In the early workings considerable rich "carbonate" ore was mined, or the decomposed part of the ore-body immediately amenable to surface influences, but now the ore has a quartz and calcite gangue, or rather, the country rock is replaced in part by quartz and iron pyrites and some zinc blende, but very little galena, the silver value being in direct ratio to the amount of iron pyrites present, first-class or shipping ore, averaging 75 ounces of silver, 3 to 8 per cent. lead, and seldom over 10 per cent. zinc limit. The mine is now worked through a tunnel running N. 75° W. 375 feet, when it turns and follows along a fault wall 157 feet (W. 15° E.) and connects with a winze to the stopes, 35 feet above. This drift is to be continued, and when in 100 or 120 feet, will probably intersect the ore zone, and by connecting with an incline from the stope, now down 35 feet along the foot-wall, which here has a 45° pitch, the further exploration of the property should be made much easier while giving a much better outlet for the ore, the present means, by the rapid advance of work, having become unhandy. The mill ore-bins are just below this tunnel level.

BRITANNIA MINING CO.—Continued.

The surface improvements consist of several log cabins, boarding house, office, assay laboratory, stables and the concentrating mill that has cost $16,000 to $17,000.

Concentrator.—For six months of the year sufficient water for milling purposes is available, and by putting in a flume to tap another small stream, it is expected that then there will be water for the whole year for the mill, with enough, part of the time, to supply power generated in the low-water season, by the present steam engines. While some first-class ore is shipped direct, most of the product of the mine goes to the mill, the capacity of which is 18.20 tons per 24 hours, concentrating 8 to 1, yielding concentrates that average 295 to 300 ounces in silver, 4.8 per cent. lead, and usually less than 10 per cent. zinc. Experiments have shown that ore assaying 15 to 20 ounces silver per ton can be mined and concentrated with a good margin of profit.

The mill is 45 by 75 feet, with an addition along one side 15 feet by 75 feet, and is supplied with (*a*) 100-ton ore bins, (*b*) 1 Dodge ore crusher, (*c*) 2 7-foot trommels giving three sizes, (*d*) geared rolls, (*e*) 4 4-compartment Hartz jigs and 2 4-compartment slime jigs (Hartz), (*f*) elevators and hydraulic classifiers, (*g*) 1 Frue vanner 6 by 12 feet, and one Embrey or end-shake vanner 4 by 12 feet, and settling tanks. This machinery was supplied by Fraser & Chalmers, of Chicago, and the Colorado Iron Works, Denver, while (*h*) the 35 h.p. engine and boiler came from the Phœnix Iron Works, Meadowsville, Pa.

The output in 1897 was 115,000 ounces silver: about 600 tons concentrates and crude ore shipped.

Reporting for 1898, the Mines Report, B.C, says: "All the lower workings have proved the claim to be a mine with depth and the concentrates (4 to 1) have assayed from $300 to $600 per ton. Some clean argentiferous galena has been shipped without concentration. 17 persons employed.

BROAD COVE COAL CO., Limited.

Incorporated by the Nova Scotia Legislature, February 12th, 1894. Authorized Capital: Bonds, $1,500,000; Preferred Stock, $1,500,000; Common Stock, $1,500,000. Amount reserved in the treasury for future needs of the Company: Bonds, $700,000; Preferred Stock, $400,000; Common Stock, $400,000.

Officers:

John M. Raymond, President.

Alpheus B. Alger, Vice-President. | Wm. Penn Hussey, Treas. & Gen. Man.
Edgar S. Buffon, Secretary. | Warren D. King, Electrical Engineer.

BROAD COVE COAL CO.—Continued.

Directors:

W. H. Munro, Martha's Vineyard Mass.
John Y. Payzant, Halifax, N.S.
Warren D. King, Peabody, Mass.
Edgar S. Buffon, Salem, Mass.
Geo. W. Gale, Boston, Mass.
Hon. John M. Raymond, Salem, Mass
Hon. A. B. Alger, Cambridge, Mass.
J. R. Naegeli, Zurich, Switzerland.
William Penn Hussey, Danversport, Mass.

Head Office: 70 Kilby St., Boston.

Mines Office: Broad Cove, Cape Breton.

This Company controls four square miles of coal lands at Broad Cove, in the County of Inverness, Cape Breton, upon which there are twelve seams, ranging in thickness from two to fourteen feet. All the seams are of the bituminous variety, of superior quality, admirably adapted for steam and domestic purposes. During the past summer the Company built two and a-half miles of railway, connecting the openings on the different seams with the harbor at McIsaac's Lake. Four levels have been run in on the larger seams, from which a large quantity of coal can be mined daily. The channel between McIsaac's Lake and the Gulf of St. Lawrence has been cut through by the Company, and in the spring will be dredged to a sufficient depth to admit large vessels. This harbor, when completed, will be the only deep water harbor on 90 miles of coast line, and will be of immense value as a harbor of refuge.

During 1897 the output was 799 tons, of which 402 tons were sold.

During 1898 the output was 5,022 tons, of which 4,808 tons were sold and 708 tons were used at the colliery or sold to workmen.

BROKEN HILL MINING AND DEVELOPMENT CO., Limited.

Authorized Capital, $1,000,000, in $1.00 shares.

Officers:

E. C. Traves, President. P. E. Wilson, Sec.-Treas.

Head Office: Nelson, B.C.

Owns the Bertha, Raven, and Jumbo claims on Kookanee Creek; Crown Jewel near Sanca; Robert Connor on Hall Creek; and Crescent eight miles up Kookanee Creek, British Columbia.

BROOKFIELD MINING COMPANY, Limited.

Incorporated 18th January, 1897. Authorized Capital, $500,000, in shares of a value of $50.00.

Directors:

Wilbur L. Libbey, President.

Elijah H. Harding. | William S. Tupper.

Mine Office: W. L. Libbey, President and Manager, North Brookfield, Queen's Co., N.S.; William S. Tupper, Secretary-Treasurer.

Owns and operates a gold property containing 104 areas at North Brookfield, Queen's County, Province of Nova Scotia. Average size of vein worked 14 inches yielding about $17.00 per ton milled. Opened by shafts and incline. Equipped with 20-stamp mill and chlorination plant (Thies process) having a capacity of 12 tons daily. Output:—

1895.....	2,975	ozs.	11	dwt.	15	grs.	from 4,242	tons rock milled.
1896.....	4,667	"	10	"	15	"	" 5,351	" "
1897.....	3,906	"	18	"	00	"	" 9,712	" "
1898.....	2,659	"	00	"	00	"	" 8,020	" "

Generally the method of treating the ore is by stamping the ore wet, passing the pulp over electro silver plated copper plates and then saving the sulphurets by means of the Improved Triumph Concentrators. The resulting concentrates are roasted in single hearth reverberatory furnaces, and then subjected to barrel chlorination by the Thies process—a process without patents, which is used with many adaptations by a large number of successful mines in the mining regions of the United States and other parts of the world.

The mill, with power and capacity for 40 stamps, at present fitted with 20, is placed directly over the working shaft. The shaft is perpendicular for 100 feet and then dips south to the depth of 400 feet at an angle of 23° cutting the pay chute on the fissure vein which has given to Brookfield its yield of gold. The shaft also dips north, cutting a large main lead at about the same angle, thus enabling the products of both leads to be hoisted to one deck on the top of the mill. The ore is hoisted to the iron-clad deck by a double cylinder steam hoisting engine placed on the ground floor of the mill, the whole arrangement being such that the engine-man hoists and dumps the self-acting skip of one ton capacity without assistance from the deck-man. The ore is shovelled from the deck into a 10 x 15 Dodge rock breaker placed below the level of the deck, whence it is fed through chutes into any desired ore bin. A waste rock car runs beneath the deck to take waste over a tramway elevated 50 feet high. In fact, although this mill is

BROOKFIELD MINING CO.– Continued.

in a low swampy place the most ample elevation has been given, by means of a massive stone foundation, for the concentrators below the stamps and for the deposit for years of both waste rock and tailings. On the lower floor are two sixty-horse power boilers, the main engine, the hoisting engine, 5 drill air compressor, 20 stamps with 14 foot silver plates and a large amalgamating room fitted up with hot and cold water, panning tubs, iron sheathed table to handle amalgam set retort, smelting furnace, and clean-up barrel. The whole building, including the large concentrator room, is heated with the exhaust steam and is lighted by two 15 K. W. dynamos, which likewise transmit power for the chlorination and furnace houses. The stamps are 900 pound stamps run on a 5 to 6 inch drop, 92 to the minute; 30 mesh wire screen is used. The mortars are narrow, single discharge, the latter being about 8 inches. After the tailings leave the plates they pass through modifications of the Rittinger pulp sizers, where the pulp is divided into four sizes, and thence over 8 Triumph concentrators. The managers are aware that the question of sizing before concentration has been, and is much discussed, but having tried both methods the conclusion thus far for the Brookfield ore is in favor of sizing. After leaving the concentrators the tailings are conveyed through sluices lined with riffles to the dump. A very small amount of concentrates is obtained from the sluices. The losses after leaving the concentrators are apparently largely from slimes and from sulphurets so exceedingly fine as to float. The concentration is done on eight Improved Triumph Concentrators 4 x 12 feet with smooth rubber belts. (This machine was patented by Mr. W. A. Sanders, late manager of the Equitable Mining Co., at Caribou Gold Mines, Nova Scotia, and by him sold to the Joshua Hendy Machine Co., of San Francisco). They are set at an inclination of 2½ inches in 12 feet and receive 230 shakes per minute. The load is distributed over the endless rubber belt which travels about four feet per minute, at a depth of about 5-16 of an inch and of about the consistency of paint. Great care is necessary to keep even speed and not to allow pulp to become too thick or too thin. These two points, added to the absolute necessity for cleanliness, are the three most important points in running the machines, and, it may be added, most difficult to obtain. The average value of the concentrates now being made is about $40 per ton; assays, however, made by Mr. F. H. Mason, of Halifax, have run, on pure sulphurets from this ore, as high as 6 ounces per ton. From the concentrating room the sulphurets are hauled on the tramways by electric power to the furnace house. Here there are three single hearth reverberatory furnaces each 8 x 70 feet, with a capacity of two tons each per twenty-four hours. Each furnace is worked by two men to a shift of twelve hours. These concentrates contain, according to Mr. Mason, about 28 per cent. of sulphur and 16 per cent. of arsenic, practically all of which is eliminated in roasting.

BROOKFIELD MINING CO.—Continued.

The ore, when cooked, is run on to a brick cooling floor, whence, when cooled, it is elevated by chain bucket elevator to the top of a 5-storey frame building containing four chlorination barrels, 16 filtering tanks, four storage tanks, 16 precipitating tanks, two settling tanks, two acid tanks and one tank in which to make ferrous sulphate. The ore is discharged from the elevators into cars containing one ton each, wheeled along over the desired barrel and dumped through a hopper into the steel barrel 60 inches long, 42 inches in diameter and lined with lead 12 pounds to the square foot. The entire charge consists of 125 gallons water, 15 lbs. chloride of lime, then the ore and last 30 lbs. of sulphuric acid 66° Beaume. The barrel is at once hermetically closed and revolved at twenty revolutions per minute for five hours. The barrel is then discharged through a lead-lined half-circle in the floor to a filter tank on the floor below. There are four of these lead-lined filter tanks to each barrel, each being 6 x 8 feet by 18 inches deep in front and 17 inches back. The bottoms are covered by specially made mineral tiles 8 x 12 inches, perforated, and having 1½ inch gutters underneath. On top of these is a rack 1¼ inch slats 4 inches high and 6 inches apart. Three sizes of quartz, from ½ inch to ordinary gravel, are placed in the rack for the filter. Before emptying the barrel, sufficient clean water is let into the filter to cover the gravel. This acts as a cushion to receive the pulp. Then the barrel is dumped, the contents striking on a wooden float to prevent disarranging the filter bed. The pulp is then washed three times with clear water, tests being made with ferrous sulphate to determine when the chloride of gold is all out of the pulp. The resulting solution is conveyed through lead pipes to the stock tanks on the floor below and there retained until it is desired to precipitate the gold. It may be here remarked that all the tanks in this building are lead-lined, except the 16 precipitating tanks, which are made of Florida cypress and coated several times with an acid-proof paint. When it is desired to precipitate, the solution is drawn down to the tanks, which are eight feet in diameter and three feet high. Each tank is provided with three outlets, one 18 inches from the bottom, and another 1 inch, and the third in the bottom. About eight or ten buckets of the ferrous sulphate is added to each tank of liquor and thoroughly stirred, then the whole is allowed to settle for three or four days, the gold being precipitated in the form of a brown powder on the bottom of the tank. The solution is drawn off through the two upper outlets, opening one after the other to prevent stirring up.

The remainder is swept out through the bottom hole and placed in a small settling tank 2 x 2 x 4 feet and allowed to stand 24 hours. The supernatant liquor is then carefully syphoned off and the precipitate filtered on paper, dried, mixed with one half its weight of bicarbonate of soda and glass borax and then smelted; the resulting brick averaging .980 fine. The solu-

BROOKFIELD MINING CO.—Continued.

tion drawn from the precipitating tanks in every case is run through a sawdust filter, which every few months is subjected to chlorination to get any gold that may be in it.

So far as the Brookfield ores go chlorination is a success, and there is every reason to believe that many, if not most, Nova Scotia ores could be more profitably worked if concentrators were introduced with subsequent chlorination in view. After the character of an ore is definitely determined and the amount of chemicals necessary to use per ton of ore is settled, the process is a very simple one, which is a special advantage to a country like Nova Scotia, where there are no men in the line of chlorination who combine theory and practice.

The plans and specifications for the roasting and chlorination plant were furnished by Dr. Adolph Thies of the Haile Gold Mine, Lancaster County, South Carolina, who is a thoroughly educated chemist and metallurgist with some 40 years of actual experience in gold mining in various parts of the world, and from him also were obtained many of the most useful ideas in fitting up the mill.

BROOKLYN MINING COMPANY, Limited.

Registered 11th March, 1899. Authorized Capital, $1,500,000, in shares of $1.

Head Office: Vancouver, B.C.

Formed to carry on mining in British Columbia.

BRUCE GOLD MINING COMPANY, Limited.

Registered 7th Dec., 1896. Authorized Capital, $1,000,000 in shares of $1.00.

Officers:

A. S. Goodeve, President.
F. Hagen, Vice-President and Manager.
Edward Tatham, Treasurer. | A. N. Paterson, Secretary.

Head Office: Rossland, B.C.

Owns and is developing the "Norway" mineral claim, on Lookout Mountain, British Columbia.

BRUNSWICK MINING AND DEVELOPMENT CO., Limited.

Registered 10th Feb., 1897. Authorized Capital, $1,000,000, in shares of $1.

Officers:

George I. Wilson, Vancouver, President.
Henry Hoy, New Westminster, Vice-President.
George A. Murphy, Kaslo, Secretary.

Registered Office: Vancouver, B.C.

Owns and is developing the Brunswick, Snowshoe, and Congar mineral claims on Crawford Creek, 5 miles from Kootenay Lake, and about 25 miles from Kaslo, British Columbia.

BUCKINGHAM GOLD MINING COMPANY, Limited.

Incorporated 12th March, 1898. Authorized Capital, $500,000, in shares of $1.

Officers:

R. C. Waterson, President.
J. A. Kirk, Vice-President. | J. G. Bell, Secretary-Treasurer.

Registered Office: Rossland, B.C.

Owns and is developing the Buckingham mineral claim near Slocan Crossing, Nelson District, British Columbia.

BUFFALO GOLD MINING CO., Limited.

Re-registered in British Columbia, 24th January, 1897. Authorized Capital, $500,000.

Officers:

Robert E. Clark, President. | F. G. Meeks, Vice-President.
H. M. Mosley, Secretary.

Head Office: H. M. Mosely, Secretary, Spokane.

Canadian Office: Roy H. Clark, Attorney, Rossland.

BUFFALO GOLD MINING CO., Limited

Incoporated 1896. Authorized Capital, $1,000,000, in shares of $1.00.

Officers:

W. G. Merryweather, President.
J. H. Good, Secretary.

Head Office: Rossland, B.C.

Owns the Buffalo, Ontario, and Great Britain mineral claims, on O.K. Mountain, near Rossland, B.C.

BUFFALO MINING & DEVELOPMENT CO., OF RAT PORTAGE, Limited.

Incorporated 23rd December, 1898. Authorized Capital, $1,500,000, in shares of $1.00.

Directors:

Harvey J. Hopkins, Buffalo, N.Y.
H. C. Carter, Buffalo, N.Y. W. Curtis Paul, Buffalo, N.Y.

Formed to carry on the business of a mining, milling, reduction and development Company, in Ontario.

BUFFALO MINING CO., OF SLOCAN, Limited.

Authorized Capital, $150,000, in shares of a par value of 25 cents.

Directors:

John M. MacKinnon. | C. C. Bennett. | R. J. Leckie.
R. E. Palmer. | J. B. Seymour.

Head Office: Vancouver, B.C.

Formed to purchase the Buffalo mineral claim, situate on Four Mile Creek, Slocan District, British Columbia.

BUFFALO-NORTH WESTERN GOLD COMPANY OF ONTARIO.

Incorporated 9th April, 1898. Authorized Capital, $1,000,000.

Incorporators:

F. J. Shaw, M. P. Hatch, H. J. Hopkins, F. S. Cobb, all of Buffalo.
M. W. Cobb, Fredonia, N.Y. C. D. Robbins, Watertown, N.Y.

Formed to carry on the business of a mining, milling, reduction and development Company in the Province of Ontario.

BULLION MINING & MILLING CO., Limited.

Incorporated 1897. Authorized Capital, $1,000,000, in shares of $1.00.

Officers:

J. C. Haas, President. C. L. Thomet, Vice-Pres. R. Stuart, Sec.-Treas.

Head Office: J. C. Haas, Midway, B.C.

Owns and is developing the Bertha Kurz and Silver Cliff mineral claims on James Creek, Crown Point Camp, Kettle River District, British Columbia.

BULLION MINING CO. OF ONTARIO, Limited.

Incorporated under the Laws of Ontario. Authorized Capital, $300,000, in shares of $1.00.

Directors:

D. C. Cameron, C. W. Chadwick. | Hugh Armstrong, A. J. Parsons, D. A. McCaskill. | Angus Carmichael, R. Wilson-Smith.

Head Office: Robert Rogers, Manager, Rat Portage, Ont.

Formed to carry on mining, financial and other business incidental thereto, in the Province of Ontario. The business is to be principally directed to prospecting, to developing mines in their earlier stages, and to supplying working capital to enable mines to be brought rapidly to a dividend paying basis.

At date of report the properties owned by the Company cover a total area of over 4,000 acres, comprising 44 specially selected claims on the Lake of the Woods, Shoal Lake, Seine River and Manitou Districts.

BUNKER HILL AND BLACKWOOD MINING CO., Limited.

Incorporated 1896. Authorized Capital, $500,000.

Directors:

E. E. Evans. C. P. Dunbar, M. M. Campbell. Osborne Plunkett.

Head Office: Vancouver, B.C.

Formed to acquire and work the mineral claims "Bunker Hill No. II," and "Blackwood," situated on the north fork of Lemon Creek, Slocan District, British Columbia.

BURLEY GOLD MINING COMPANY OF OTTAWA, Limited.

Incorporated under the Laws of Ontario, 1897. Authorized Capital, $1,000,000, in shares of $1.00.

Directors:

Levi Crannell.	F. P. Bronson.	John Maclaren.
E. Seybold.	W. A. Clark.	W. G. Bronson.
	A. W. Fraser.	

Head Office: A. W. Fraser, Secretary, Ottawa, Ont.

Mine Office: P. W. Webster, Mine Manager, Rat Portage, Ont.

Owns and is developing Mining Locations D 193 A, Part D 193, and 271 P, in Bald Indian Bay, Lake of the Woods, Ontario. An excellent description of the sinking of the company's shaft under the water adjacent to the Sultana Gold Mine is given in a paper read before the Canadian Mining Institute, from which we quote:—

"The north east boundary of the Burley Gold Mining Company's location is about 700 feet from the Sultana shaft.

"At a distance of 165 feet S.W. of this boundary, or 865 feet S.W. of the Sultana shaft, a cross section was obtained of the deposit by three diamond drill borings, to locate the position of the proposed shaft on the Burley water location. There being, however, insufficient clay covering the rock-bed of the lake at this point to insure a perfectly water-tight seal, a diver was employed to carefully examine the bottom, and finally a location was found having a covering of from ten to fifteen feet of fine plastic blue clay over the rock, 56 feet to the south-west of the point where the borings were put down. It was at first intended to sink a crib 60 feet square on the outside and 40 feet on the inside, using an inner caisson for a water-tight compartment in which to commence sinking the shaft and to then carry a steel lining from a depth of 20 feet in the rock up to the deck of same, and afterwards to build a wall of concrete masonry round the shaft which would be carried up to the same level. The space between this wall and the inner walls of crib to be braced strongly together with timbers and filled with rock. Owing, however, to unexpected delays, the lateness of the fall season and the stormy weather to be expected at that time, and the fact that we were at the last moment unable to secure any land in the immediate neighborhood on which to frame the crib, our plans had to be changed. It was then decided to build a water-tight caisson on the Queen Bee Island, about one mile away from the proposed site of shaft. A good sloping beach of sand was selected in a sheltered bay, ways were laid down and the work of building the caisson commenced. Its dimensions are 60 feet square on the outside, 40 feet on the inside (leaving a box space all round about 10 feet wide for the rock ballast

BURLEY GOLD MINING CO—Continued.

to be used to sink it), and 24 feet high. It was strongly ribbed and braced and sheeted throughout with eight inch square timbers, the whole bolted and spiked together in the strongest possible manner. The heavy eight inch sheeting being caulked and pitched right up to deck. Valves were provided inside the cassion to admit water, as it was known that the structure could not contain sufficient weight of rock to sink it without this addition. The time occupied in building the cassion was something under two months. At the end of November, 1897, it was safely launched and towed by steam tugs to the proposed site of shaft, and a few days later it was frozen hard and fast in position by the ice. Shortly after this the caisson was filled with rock and sunk to the bed of lake. To make doubly sure an inner coffer-dam was constructed inside the hollow square of the caisson. The water was then pumped out with a powerful centrifugal pump and the clay inside the inner coffer-dam was excavated down to bed-rock. The shaft was then excavated the full size of the inner coffer-dam, 12 feet into the solid rock. A strong water-tight shaft-casing formed of timbers eight inches square was carried up to the deck platform of caisson, which had previously been raised six feet higher to be safely above flood water mark of the lake. Behind this casing and under its foot, careful sealing with the rock was made by caulking with oakum and filling in with hydraulic cement; the remainder of this space was then filled in with concrete up to some feet above the surface of the rock-bed of the lake.

From this point upward to platform the space between shaft-casing and coffer-dam was filled in with puddled clay. The space still left between the inner coffer-dam and inside walls of caisson was filled in with clay and rock, after being securely framed and braced with timbers. The platform on top was decked in the usual way, and on this platform are erected the temporary buildings containing the machinery and plant of the mine, and a temporary pit-head framing. The sinking plant and machinery consist of one Ingersoll-Sergeant air compressor and three rock drills; one 80 h. p. boiler, one Ingersoll eight inch x 10 inch duplex double drum steam hoist; one portable steam derrick hoist; one direct-acting steam centrifugal pump, and some ordinary sinking pumps. The shaft is six feet x 12 feet in the inside, and is now down to a depth of 190 feet. At a depth of 107 feet down a cross cut level was driven S.E. towards the shore as a test, and as expected crossed a lense of auriferous quartz eight feet wide, 35 feet from the shaft. The shaft was continued down to a depth of 140 feet when quartz was again struck, showing visible gold in places.

"Our manager reports in his last letter that the shaft is now down to a depth of 153 feet and is not yet through the quartz. The lode dips to the N.W. The shaft is perpendicular and was expected to strike the deposit at a depth of about 150 feet, which, however, was reached at 140 feet or thereabouts. Very little water has found its way into the shaft through seams or fissures, and we have every prospect of having a dry mine." 22 persons employed 1899.

BUSHNELL COMPANY, Limited.

This company acquired in 1897 the Refinery formerly operated by Messrs. Fairbanks, Rogers & Company.

Canadian Office: Petrolia, Ont.

Carries on the business of oil refiners at Petrolia, Ont. The annual capacity of the works may be stated to be as follows:—

Crude oil (barrels)	75,000
Illuminating oils (galls.)	1,000,000
Benzine and naptha (galls.)	150,000
Paraffin oils (galls.)	130,000
Lubricating oils, gas, oil and tar (barrels)	30,000
Paraffin wax (lbs.)	170,000

BYRON N. WHITE CO., Limited.

Incorporated 1893. Authorized Capital, $500,000.

Officers:

Angus Smith, Milwaukee, Wis., President.
Byron N. White, Sandon, B.C., Vice-President.
J. Hoyt Smith, Milwaukee, Wis., Sec.-Treas.

Mines Office: Bruce White, Sandon, B.C.

Head Office: Milwaukee, Wis.

Formed to acquire and work the Slocan Star and other mineral claims in the Province of British Columbia. The Slocan Star is situated on Sandon Creek, in the Slocan District, B.C. It was discovered in August, 1891, and has been worked continuously since.

Ore Body—The vein cuts across the steep, heavily timbered mountain side and nearly at right angles to the well stratified slates, quartzites and silicious limestones of the Slocan slate series, with an east and west strike and a dip of 54° to the south. While this vein has been traced through and beyond this property into other claims, it has not yet been traced continuously, nor has it any constant width, varying from a width of a few feet to 20 or 30 feet, with in other places no signs of mineralization at all along the fissure, along which the country rock has been more or less shattered, and the ascending mineral-bearing solutions have formed large deposits or shutes of fine ore. A large porphyry dyke runs nearly parallel with the vein and in places in the mine is found in it, but evidently effected by the fissure.

BYRON N. WHITE CO.—Continued.

Along this fissure is seen much brecciated slate cemented together by the gangue materials, galena and blend, and in many other parts of the mine was noticed more or less parallelism in the depositions of the different minerals; but one interesting peculiarity noticed was the fact that many samples of ore clearly showed by the separation by the quartz of corresponding parts that the sulphides, as galena or blende, after deposition, had been shattered, perhaps, by further movement along this line of break, and then cemented into the present mass by quartz.

It is doubtful if two well-defined walls can be traced in this mine, for while the hanging or fissure wall is very distinct, the ore merges into the country rock towards the supposed foot-wall, but more time could not be spent in very careful observation. In the mining of this one large ore chute, as has been opened up and exploited upon the Slocan Star, the ore body has been found to vary from a few feet to 25 feet in width of mixed but pay ore, and a large amount of ore has been mined from bodies 2 to 8 and 10 feet wide of solid galena.

The first-class ore consists of the nearly pure gelena, both fine and coarse-grained, carrying some grey copper and some blende, but not enough to pass the excess line, or 10 per cent. of zinc. Average value 95 ounces silver per ton, 72 to 75 per cent. lead. This ore is sacked and shipped direct to the smelters. The concentrating ore consists of the mixed ore or the spathic iron quartz gangue with galena, with a little grey copper, and in all the ore there are evidently some of the silver sulphides. The large amount of mixed ore taken from the upper workings and kept separate, became available on the construction of the concentrator, and was being sent down the hill. In concentrating most of the blende is removed, so that the concentrates carry not more than 6 per cent. zinc. Average value of concentrates, 80 ounces silver per ton, 70 per cent. lead.

In 1898, 110 persons were employed. The output for the year is officially reported as 2,862 tons. Mine workings comprise 2,500 feet of tunnelling, 1,500 feet upraises and winzes.

A steep waggon road from Sandon climbs up past the mill to tunnel No. 3, 4, and 5, but all ore is sent down to the mill by the 3-rail gravity tramway, about 1,600 feet long, covered where necessary by snow-sheds, the concentrating ore being automatically dumped into the mill bins, the sacked first-class ore being loaded into ore waggons or sleighs, and drawn, also the concentrates, half mile to the railroad at Sandon, at a cost of 80 cents per ton. Number of men employed 83, of which 55 were in the mine and 10 at the mill.

Concentrating Plant.—This mill, designed and constructed by Mr. T. L. Mitchell, Sandon, is situated at the foot of the tramway, and is 46 by 102 feet, with four floors.

BYRON N. WHITE CO.—Continued.

Bins.—There are two, 150 tons capacity each, one for the coarse ore from the mine, the other for crushed ore below the crusher for supply.

Power.—(*a*) A Pelton wheel, a 3-foot steel disk, with a $1\frac{7}{16}$ inch nozzle, supplies, when the water is sufficent, ample power, and is situated on the upper floor, so that the water from it, after going through a 12-mesh screen, may be used for washing in the operation of the mill.

(*b*) When water is scarce, an auxiliary steam engine will be used, or a 40 h.p. engine with a 50 h.p. boiler.

Water.—(*a*) A flume 3,000 feet long in two branches, brings from Sandon and another small stream, water that flows down through 1,200 feet of spiral rivetted steel pipe, the lower 250 feet, 7 inches in diameter, with a total head of 471 feet at the wheel. (*b*) Another flume from Cody Creek, 9,650 feet long, 2 x 2 feet, on a 0.2° grade, costing $7,400, now supplies water for washing purposes in the mine, but has no head for power.

Machinery comprises—A Blake crusher, Reliance pattern, 9 x 15 inches; four sets of rolls, Reliance pattern, 14 x 26 inches; six Hartz jigs, *i.e.*, 2 double 2-compartment, and 1 double 3-compartment jigs; six 2-compartment Collum jigs; elevators, trommels, classifiers and settling tanks, etc.; two double-decked round slime tables, 18 feet diameter.

The ore from the crusher is automatically fed by a camfeeder to 2 sets of coarse rolls, whence the material is elevated by elevator No. 1 into one revolving screen with 3 sizes of screens, from which (*a*) the refusals of the screens passes to two coarse Hartz jigs; (*b*) the material from the 16 m.m. (.64 inch) screen, to two coarse Hartz jigs; (*c*) the material from the 7 m.m. (.28 inch) screen, to two coarse Hartz jigs; (*d*) the material from the 3 m.m. (.12 inch) screen, passes to 2 3-compartment hydraulic classifiers, which give three separations, each of which goes to two of the double-compartment Collum jigs, while the overflow passes on to the V-shaped settling tanks, or species of spitz-kasten, from which each of the four sizes of fine stuff goes to its own slime table.

The pitch of each slime table is different, so as to conform to the size of the fine sand fed to it, and by using two water sprays, three separations are here made, the heads, middlings and tails, of which the middlings pass back by elevator No. 2, to the hydraulic classifiers.

The middlings from four coarse jigs pass to the coarse set of middlings rolls, and thence back to elevator No. 1, the 7 m.m. middlings to middlings rolls, and thence to elevator No. 2, while the fine middlings from six Collum jigs go to fine middlings rolls, which discharge into elevator No. 2. The automatic discharge material from six coarse jigs and the sieve work from the six Collum jigs, and the heads from the tables, pass by the concentrate sluices to the concentrator bins below, whence they are shoveled into sacks of 155 pounds to 160 each, while the overflow, carrying much fine material, goes into the settling tanks in the slime house.

Capacity of mill is up to 150 tons of ore per 24 hours, the ratio of the concentration varying of course, with the grade of the ore sent down from the mine.

The product is very clean galena, with seldom over 6 per cent., and never up to 10 per cent. of zinc, but there is a considerable loss of silver, some of which is carried away in the blende, while the greatest source of loss is believed to be in the grey copper, much of which escapes in the finest slimes.

CALEDONIA CONSOLIDATED GOLD MINING CO., Limited.

Incorporated 1896. Authorized Capital, $600,000.

Directors:

Austin Corbin. Jacob Hoover. H. G. Macdonald.

Head Office: Spokane, Wash.

Canadian Office: Rossland, B.C.

Owns the Caledonia, Pots, Boomer, and Emerald Isle mineral claims, comprising about 50 acres each, in the Trail District, British Columbia.

CALEDONIA GENERAL MINING ASSOCIATION, Limited.

Incorporated under the Laws of British Columbia. Authorized Capital, $1,500,000, in shares of $1.00.

Directors:

Col. S. W. Ray, Port Arthur, Ont.
Capt. C. E. Clarke, Victoria, B.C.
S. Schoen, Victoria, B.C.
John Taylor, Victoria, B.C.
M. McGregor, Victoria, B.C.
Robert Erskine, Victoria, B.C.
A. J. W. Bridgman, Victoria, B.C.
Alex. Stewart, Victoria, B.C.

Head Office: 28 Broad Street, Victoria, B.C.

R. T. Williams, Secretary; C. N. Black, C. & M.E., Manager.

Mines Office: Omenica, B.C.

Formed for the purpose of exploring, prospecting, acquiring and developing by hydraulic or other means, mineral lands of all descriptions, in any portion of British Columbia, and especially in the Omenica District and the large area of practically unexplored country in the northern regions of British Columbia.

The Company has purchased the following mining properties on Germansen Creek, Omenica District, namely:—640 acres of rich placer ground, including the claims known as the "Toboggan," "Perce," "Black Jack," and "Maggie Wells," the latter being at the old town of Germansen, also ⅔ interest in the "Gold Hill" claim of 80 acres, with several buildings erected thereon, also 6,600 miner's inches of water, of which 6,000 inches are from Germansen Lake, 300 inches from Mill Creek, and 300 inches from Black Jack Creek. The Company has permission to dam Germansen Lake at the outlet. This lake is 12 miles long and 1 mile wide.

CALEDONIAN EXPLORING SYNDICATE, Limited.

Head Office: N. A. Eustace, 10 St. Helen's Place, London, E.C., England.

This Syndicate was registered on 7th October, 1897, to acquire lands, mining rights, etc., in Canada and elsewhere. The Authorized Capital is £5,000, in 5,000 shares of £1 each.

CALIFORNIA GOLD MINING CO.

Organized June, 1896. Authorized Capital, $2,500,000, in shares of $1.00.

Directors:

Harold Kennedy. O. G. Labaree. Louis Hall. J. P. Graves. Charles Wolff.

Officers:

Rufus H. Pope, M.P., President.
O. G. Labaree, Vice-President. R. Dalby Morkill, Sec. and Treas.

Head Office: Spokane, Wash.

Mines Office: W. Y. Williams, Superintendent, Rossland, B.C.

Owns and operates the California mineral claim, situated in the Trail District, West Kootenay, Province of British Columbia. Opened by shafts and tunnel.

CAMBRIDGE GOLD MINING CO., Limited.

Registered in British Columbia, 12th October, 1896. Authorized Capital, $1,000,000, in shares of $1.00.

Officers:

R. J. Bealey, President. H. S. Wallace, Vice-Pres. Geo. Kellam, Sec.-Treas.

Head Office: Rossland, B.C.

Owns the Cambridge mineral claim, near Rossland, B.C.

CAMERONIAN GOLD AND SILVER MINING CO., Limited.

Registered in British Columbia, 23rd November, 1896. Authorized Capital, $850,000, in shares of $1.00.

Officers:

J. R. Cameron President.
Angus Cameron, Vice-President. M. L. Grimmet, Sec.-Treas.

Head Office: Sandon, B.C.

Owns and is developing the Cameronian and Radnorian mineral claims, on the first North Fork of Lemon Creek, near Slocan City, British Columbia.

CAMERON LAKE MINING CO., Limited.

Authorized Capital, $100,000, in shares of a par value of 10 cents.

Directors:

A. Haslam. W. A. Young. L. Manson. T. D. Jones.
W. R. Bryant.

Head Office: Nanaimo, B.C.

Formed to purchase the Copper King mineral claim, situated at Cameron Lake, in the Nanaimo Mining Division, British Columbia. One tunnel has been run 150 feet and two winzes 20 feet each. A second tunnel was run 303 feet to tap the ledge at a depth of 300 feet from surface, but at date of report there is between 30 and 60 feet yet to run.

CAMP HEWITT MINING AND DEVELOPMENT CO., Limited.

Authorized Capital, $1,000,000, in $1.00 shares.

Directors:

W. J. Robinson. | Price Ellison, M.P.P. | W. S. Stratford.
G. H. Henderson. | H. G. Miller. | C. S. Watson.
H. Hewitt.

Officers:

W. J. Robinson, President. | G. H. Henderson, Vice-President.
G. F. Costerton, Secretary.

Head Office: Vernon, B.C.

Mines Office: J. M. Robinson, Mine Superintendent, Peachland, B.C.

Owns and is developing seven claims at Camp Hewitt, Vernon Mining District, British Columbia.

CAMP McKINNEY DEVELOPMENT CO., Limited.

Authorized Capital, $600,000, in shares of $1.00.

Directors :

F. S. Taggart. C. D. Rand. R. E. Leonard.

Head Office : F. S. Taggart, Vancouver, B.C.

Owns and is developing the Wiarton mineral claim, Camp McKinney, Osoyoos Mining Division, British Columbia.

CANADA COALS AND RAILWAY CO., Limited.

Incorporated by Act of the Legislature of Nova Scotia, 1892. Capital Stock, $750,900. Bonds, $750,000.

Directors :

S. Finlay, President.

Wm. Hanson.	S. H. Ewing.	E. W. Wilson.
A. F. Gault.	E. Hanson.	R. Wilson Smith.

Mines Office : Robt. Archibald, General Manager, Joggins Mines, N.S.

Head Office : 157 St. James Street, Montreal.

Formed to mine, quarry, work, win and prepare for sale, by any process, and to carry, sell and deal in coal, iron and other minerals, etc. The company controls an area of 15 square miles, upon which is situated the Joggins Colliery, at Joggins Mines, in the County of Cumberland, Province of Nova Scotia.

COAL DISPOSALS.

	1892.	1893.	1894.	1895.	1896.	1897.	1898.
	Tons.	Tons.	Tons	Tons.	Tons.	Tons.	Tons.
New Brunswick	41,553	48,750	56,558	55,435	30,782	45,490	46,911
Nova Scotia	5,817	10,793	11,894	9,624	4,638	7,463	4,293
Quebec	10,497	23,774	15,800	20,371	13,260	16,409	10,432
United States	395	248	7,347	2,457	555	....	....
P. E. Island	....	....	401	418	118	....	....
Colliery Employees, Eng's., etc..	4,905	7,685	10,029	13,381	7,202	4,716	5,980
	69,167	91,250	102,031	101,686	56,555	74,080	67,616

Colliery eleven miles from Maccan Station, on the main line of the Intercolonial Railway, connected by a standard guage railway ; also one mile from Joggins wharf, on Chignecto Bay, connected by tramway. Rolling stock comprises two locomotives, four passenger coaches, 30 box and flat cars, etc.

CANADA COALS AND RAILWAY CO.—Continued.

Seam from 6 ft. to 8½ ft. worked; coal from 4 ft. to 5½ ft.; clay in centre seam from 1 ft. to 3 ft.; dip, 17°; slope, 2,700 ft. and 1,900 ft. respectively.

System of working—Longwall.

No. 3 slope—Ventilation by open fan 14 ft. dia. x 3 ft. 2 in. broad; No. 2 slope, furnace.

Lamps—Anton, all open lights.

Winding engines No. 2 slope—One double 18 in. x 42 in. geared 3 to 1; one 15 in. x 30 in. operating saw-mill; one 14 in. x 24 in. hauls empty cars from pier to pit; one double 3 in. x 10 in. used in sinking; one 5 in. x 10 in., and one 7 in. x 16 in.; at No. III. slope, one 17 in. cyl. x 36 in. stroke.

Haulage engine (tail rope) 10 in. cyl. and 12 in. stroke.

Pumps—One Burrell-Johnston, one Cameron and one Northey; one Northey on surface, one Jeanesville.

Screens—Six in use.

Boilers—No. II. slope, 8 double flue 3 ft. x 30 ft. long, and two 5 ft. dia. and 30 ft. long; No. III. slope, 2 double flue Lancashire boilers 7 ft. dia. and 30 ft. long.

Employees—Above ground, 72; below, 179, total, 251.

CANADA IRON FURNACE CO., Limited.

Incorporated by Dominion charter under date 29th November, 1889.

Authorized Capital, $200,000. Increased 13th August, 1893, to $300,000.

Directors:

P. H. Griffin, Buffalo, N.Y., President.

G. E. Drummond, Montreal. | J. T. McCall, Montreal.
T. J. Drummond, Montreal. | George Gudewill, New York.
A. F. Gault, Montreal.

Hon. T. Guilford Smith, Buffalo, Vice-President.

Head Office: G. E. Drummond, Managing Director and Treasurer, Canada Life Building, St. James St., Montreal.

Works: John J. Drummond, M.E., General Supt., Radnor Forges, Que.

Formed to acquire and work mineral and wood lands in the Province of Quebec and elsewhere in the Dominion of Canada, and to manufacture special high class charcoal iron, similar to and competitive in quality to that of Sweden.

CANADA IRON FURNACE CO.—Continued.

Ore Deposits.—The company at present owns an area of 100,000 acres of bog ore rights in the district of Champlain, St. Maurice, Three Rivers, Vaudreuil, Joliette, St. Ambrose de Kildare, Point du Lac, Gentilly and Becancour, including the important deposits, (supposed to be the largest of like nature in the world) of lake ore in Lac-a-la-Tortue and Lac-au-Sables.

Lake ore is raised principally at Lac-a-la-Tortue, where a steam dredge of a capacity of 50 tons a day is employed. The deposits vary somewhat in analysis; some of the bog ores used by the company being as low as .080 sulphur and .042 phosphorus.

The lake iron ore is found scattered over the bottom of the lake in an unctuous light colored mud made up of decayed vegetable matter. The ore does not appear to be found deeper than 12 or 18 in. below the surface of the bottom and is most plentiful in the upper parts of the mud. It occurs in the form of porous, flat rounded concretions, very irregular in color. The concretions vary from ¼ to 12 in. in diameter, and from ¼ to 2 in. in thickness, and closely resemble the dried excrement of cattle. The country surrounding Lac-a-la-Tortue is almost as flat, being a great sandy plain underlain by stratified clays, and covered in many places by extensive swamps. The underlying sands are highly impregnated with oxide of iron derived from the decomposition of the rocks of the neighborhood, which are highly charged with titaniferous iron ore. The iron in these sands is leached out by the action of acids formed, and fresh ore is being constantly formed, so much so that paying quantities of ore have been obtained from parts of the lake bottom which had been worked over thoroughly only a few years previously. As the lake is quite shallow and the depth increases slowly from the shore, the whole bottom can be worked over by the dredge belonging to the company. The dredge is of the endless chain pattern, with four rows of buckets. The buckets bring up the ore mixed with large quantities of mud, which they empty into a long cylindrical sieve, having rows of water jets inside. The sieve is slowly rotated and the ore tumbling through is washed clean and discharged on scows moored alongside, and then towed to the railway at the west end of the lake. The company has lowered the level of the water several feet, exposing a wide margin of the deposit, which is worked by hand. This is shovelled into round iron sieves, and the ore washed out and made into heaps along the shore. The bog iron ore is found all over the country on either side of the St. Lawrence about Three Rivers, was formed in the same manner as those of Lac Tortue, and are often of great extent. It is found in patches near the surface of the soil, and varies in thickness from a few inches to several feet.

Furnace Stack (at Radnor Forges, Que.)—Height, 40 feet; bosh, 8 feet diameter; crucible 5 feet dia.; height of bosh line from hearth, 11 feet; 4 tuyeres of 3½ inch dia; crucible and bosh from mantle ring down is encased

CANADA IRON FURNACE CO.—Continued.

and protected with a Russell Wheel and Foundry Co. water jacket : furnace top is provided with a bell and hopper, capacity of which is twenty-five bushels.

Hot Blast Stove.—This is of the Pipe pattern with a combustion chamber below. Dimensions are : length, 24 feet ; height, 18 feet ; width, 9 feet 6 in. ; 68 openings between combustion chamber and pipe chamber above.

Steam Power—Consists of four steam boilers, each four feet dia. by 25 feet long, with two 18-inch flues ; shells are of ⅜-inch plate and double rivetted ; all boilers connected with a brick chimney 75 feet high, and are all bricked separately, and arranged to fire with either wood or gas ; gas connections are made so that boilers can be worked in batteries of two each or more, and one or two can be laid off for repairs or cleaning at any time.

Water Power—The River Au Lard, which flows through the property, affords the company a most valuable developed water power directly at the furnace. At this point there is a fall of 27 feet, and here the company use a "New America" wheel, affording power, and also keeping the water jackets constantly supplied. In addition to this fall there are three other separate falls situated within 300 yards of the furnace, giving an additional aggregate of 30 feet fall.

Blowing Engines—New Weimer blowing engine, size 16 x 48 x 30, set up on a solid stone foundation, which rests on a limestone bottom. This engine is provided with a patent water heater and a Scanlan patent wind receiver and heater, capable of raising the temperature of wind to about 200 degrees Fah. before entering the hot blast stove.

Auxiliary Blowing Engines.—These are of the horizontal type, with two cylinders, each 40 inch diameter by 46 inch stroke, and are geared to be driven either by a horizontal steam engine of 14 x 20 inch cylinder or by water power. These engines are complete with their own wind receiver and pipes, and are so arranged that they can be used in case of an accident to or a shut down of the Weimer engine. They deliver about 2,100 cubic feet of air per minute, with a pressure of 4½ pounds. The whole is set up in an engine house entirely separate from the Weimer, and is isolated from the latter and the boiler house.

Steam Pumps.—One Blake Duplex pump, 12 x 7 x 12 ; one Holly boiler feed pump, one Niagara boiler feed pump, one Northey volume pump.

Force Pumps.—One horizontal force pump, 1 double-acting plunger force pump. All the above steam and force pumps are so connected that they can be used either on the furnace water jackets, tuyeres, for general fire purposes, or for boiler feed. All the suction pipes in connection with the new engine house are laid through a stone tunnel, which leads from engine house to river, and are always beyond the action of frost, and so arranged that alter-

CANADA IRON FURNACE CO.—Continued.

ations or repairs can be made at any time, as the tunnel is large enough to allow a man to pass or work.

Hoisting Power.—This consists of a crane pattern double cylinder hoisting engine; size of cylinders, 8 x 10 inch. This engine is connected with two hoisting cages, having a lift of 15 feet from floor of weigh house to floor of top house.

Charcoal Kilns.—Radnor forges battery consists of: Seven rectangular kilns, capacity 55 cords each; seven beehive pattern kilns, capacity 55 cords each. Grand Piles battery consists of: Fourteen beehive pattern kilns, capacity 55 cords each; Lac au Sable, six beehive kilns, capacity 50 cords each. Others in course of construction. Charcoal also made and supplied from pits in the Swedish manner. The buildings and real estate in connection with the entire plant is the property of the company in fee simple.

Wood Lands.—Freehold and royalty rights on hardwood lands extending throughout the country north of Radnor Forges, and comprising some thousands of acres. The supply of wood is practically inexhaustible. The company's location for charcoal kilns at Grandes Piles securing to them the "key" of the St. Maurice river, and practical control of most valuable hardwood lands on either bank of the river for 70 miles of the navigable waters of the St. Maurice. The wood is principally hard maple, birch and beech. Assembly Bill No. 21, session 1895, Quebec Legislature, entitled: "An Act respecting Colonization in certain parts of this Province, and for promoting the Mining Industry therein," reserves for the sole purposes of the Canada Iron Furnace Co., Limited, 30,000 acres (part of a township) of hardwood lands, thus further guaranteeing the company a sure constant supply of fuel.

Limestone.—The furnace is built upon one of the best limestone quarries in the Province of Quebec (the property of the company), and from this the necessary flux is quarried at a distance of not more that 60 yards from the furnace stack. The company is therefore assured of a constant supply of this necessary material at the minimum cost.

Blue Clay.—On the east side of the limestone quarry, and about 150 yards from the furnace, is a magnificent bed of blue clay, averaging about 12 feet in depth.

Sand.—Directly in the rear of the furnace, and on the property, is a large bank of sand, suitable for use on the cast house floor.

OUTPUT IN 1893.

Total ore raised	18,848 tons
	2,000 lbs.
" charcoal	750,000 bushels
" " iron man'fd (value at furnace $185,575)	7,422 $\frac{1480}{2000}$ tons
" ore charged	16,700 tons
" fuel charged	750,000 bushels
" flux charged	1,680 tons
" persons employed	600

CANADA IRON FURNACE CO.—Continued.

OUTPUT IN 1894.

Total ore raised..... 20,648 tons (short)
" charcoal made.....756,000 bushels
" charcoal iron manufactured (value $190,000)... 7,900 tons
" ore charged..... 17,500 tons
" fuel charged.....750,000 bushels
" flux charged..... 1,750 tons
" persons employed..... 600

OUTPUT IN 1895.

Total ore raised..... 16,203 net tons
" charcoal made.....654,361 bushels
" charcoal iron man'fd (value $158,357.04)..... 6,598 $\frac{420}{2000}$ tons
" flux charged..... 1,500 $\frac{417}{2000}$ tons
" persons employed..... 600

OUTPUT IN 1896.

Total ore raised..... 24,713 net tons
" charcoal made.....630,000 bushels
" limestone mined..... 2,415 net tons
" charcoal iron made..... 5,602 net tons
" charcoal consumed.....557,400 bushels
" ore consumed..... 13,725 net tons
" limestone consumed..... 1,415 net tons

OUTPUT IN 1897.

Total ore raised..... 20,041 $\frac{560}{2000}$ net tons
" charcoal made.....836,000 bushels
" limestone mined..... 2,229 $\frac{1840}{2000}$ net tons
" charcoal iron made..... 8,512 $\frac{750}{2000}$ net tons

OUTPUT IN 1898.

(Campaign 8 Months).

Total ore raised in 1898..... 14,400 net tons
" charcoal made.....580,100 bushels
" limestone mined..... 1,432 net tons
" charcoal iron made..... 6,040 $\frac{420}{2000}$ net tons

CANADA LEAD COMPANY, Limited.

Registered December 17, by Linklater & Co., 2 Bond-Court, Wallbrook, with a capital of £275,000, in £1 shares.

Object, to adopt and carry into effect an agreement dated Dec. 8, 1898, and expressed to be made between the London and Dublin Finance Corporation, Limited, of the one part, and E. S. Elney of the other part, for the acquisition of the Wright Galena Mine, situate in the Township of Duhamel, Province of Quebec, and to develop and work the same; and further, to acquire any other mines, mineral grants, gravel deposits, alluvial grounds, mining claims, rights and privileges, ores, minerals, water rights and concessions, and other properties; to dress and prepare for market any ores, metals, minerals, or precious stones; to carry on all kinds of financial or banking business, and in particular to negotiate loans and advances; to construct and maintain furnaces, mills, hydraulic works, electrical works, rolling stock, etc, ; to promote immigration, and the establishment of towns, villages and settlements, and to acquire and turn to account any patents, patent rights and inventions.

CANADA MUTUAL MINING AND DEVELOPMENT CO., Limited.

Registered in British Columbia 15th February, 1897. Authorized Capital, $2,500,000, in shares of a par value of 25 cents.

Directors:

Dr. Landerkin, M.P., President.

Henry Cargill, M.P.	Major Sam Hughes.	D. W. Jamieson.
Rev. A. MacGillivray.	R. S. Box.	J. D. Moore, M.P.P.
John Waddell.	Dr. Fotheringham.	F. W. Hayhertowel.
Henry Cargill.	G. F. Master, M.P.P.	Dr. A. J. Henwood.

J. A. Moody. C. Kloepher, M.P.

Executive Board:

S. Hesson. Rev. A. MacGillivray. T. W. Dyas. Dr. W. E. Hammill
M. O. Tibbits.

Mines Office: John Harris, 34 Columbia Ave., Rossland.

Owns and is developing the Minnie and Beaconsfield mineral claims in the Rossland District, B.C., etc.

CANADA PETROLEUM COMPANY, Limited.

Registered 1899. Authorized Capital, £300,000, in shares of £1.

Directors:

Sir W. H. Bailey, J.P., Chairman.

Malcolm Guthrie.	J. Sparks Dewhurst, J.P.	A. Lord, J.P.
Walter G. Bagnall.	George Carr Glyn.	James Foley.

Head Office: 120 Bishopsgate Street Within, London, E C.

Canadian Office: Gaspe, Que.

This company has been formed to acquire valuable rights and privileges from the owners of very extensive and proved petroleum fields in the oil-bearing region of Gaspé, Province of Quebec, Canada, with a view to supplying high-flash illuminating or lamp oil and petroleum products to Great Britain, the Dominion of Canada, and elsewhere. Such owners possess about 38,000 acres of freehold land and perpetual mining rights over a further 5,000 acres.

The following are the rights and privileges to be acquired:—

(a) The sole right in perpetuity to lay pipe-lines over the whole or any part of the freehold lands of the Petroleum Oil Trust and the Belgian Company and the Irish Proprietary Company, or any lands over which any of the three companies has mining rights in perpetuity.

(b) One hundred acres of freehold land in fee simple, free from encumbrances, to be selected from any part of the said lands belonging to the Oil Trust, in such portions and as and when required by the company for the purpose of erecting thereon a refinery or refineries.

(c) One hundred acres of freehold land in fee simple, free from encumbrances, to be selected from any part of the said lands belonging to or which may belong to the Oil Trust, in such portions and as and when required by the company for the purpose of erecting and constructing storage, oil, or other tanks.

(d) The right in perpetuity to erect and remove derricks, tanks, workmen's houses, stables, and other buildings, and drill or sink wells upon any portion of the said freehold land belonging to the Oil Trust, or over which they shall for the time being have the mining right in perpetuity, and any well so drilled or sunk and the products therefrom shall be and become the property of the company. And in addition the company shall forthwith become the owners of 10 acres of freehold land belonging to the Oil Trust, surrounding each such derrick so erected and well so sunk or drilled, but nevertheless the provisions in this paragraph *(d)* shall not in any way

CANADA PETROLEUM CO.– Continued.

prejudice the right of the Oil Trust to sell or dispose of or otherwise deal with the whole or any part of the lands or mining rights belonging to the Oil Trust, provided that any land, wells, or products actually acquired under this paragraph by the company before the contract for such sale, disposition, or dealing is entered into, shall not be or be deemed comprised therein unless with the company's concurrence.

(e) The sole right in perpetuity on any lands belonging to the Oil Trust, or over which it has or shall have the mining rights in perpetuity as aforesaid, to refine crude petroleum and manufacturing and lubricating oil and otherwise deal with the products thereof.

(f) The right to obtain in perpetuity from the Oil Trust, the Belgian Company, and the Irish Proprietary Company the supply of the whole of the output of crude petroleum that may be obtained from the wells now sunk on the property of any of the three companies, or which may hereafter be sunk thereon, except such oil as any of the three companies may at any time require for the purpose of its works, but so that the company shall pay for such crude petroleum the current market price within two calendar months from the date of each supply, and that none of the said three companies shall be bound to supply to the company any specified lot of petroleum for the time being actually gotten, which the company shall for twenty-one days after receiving notice from such company of the same being gotten refuse or omit to purchase the same.

(g) The free use in perpetuity of the wharves of Gaspé Basin, the property of the Oil Trust, for the purpose of the exportation or importation of goods and merchandise and petroleum or its products.

(h) If the company fail to purchase the oil after the expiration of the twenty-one days' notice referred to in the preceding clause *(f)*, the company shall, at the request of any of the said three companies, convey such oil through their pipe-lines to such place or places to which the pipe-line or lines may be laid, as such company may direct, at such price per barrel and upon such terms as may hereafter be agreed upon, and in case of dispute by arbitration, this right of the said three companies shall also at their request be extended to any company or companies or persons who shall have acquired or may hereafter acquire any lands or rights from them.

(i) The sole right to exploit and work any existing wells of the Oil Trust for three years from April 17, 1899, on paying to them two-thirds of all oil obtained from such wells, which said two-thirds shall be sold to the company at the current market price.

(j) The option to purchase all or any parts of the said lands if unsold by the Oil Trust, at a price (cash and shares) to be settled by arbitration in case the parties differ, except 10 acres of land surrounding each well now or hereafter to be sunk or drilled by the Oil Trust.

CANADA VENTURE SYNDICATE, Limited.

Registered 24th October 1895. Authorized Capital, £25,000, in 25,000 shares of £1; 23,050 shares have been issued and are fully paid. The capital was originally £20,000, but was increased to its present amount on 19th February, 1896.

Directors:

R. D. Wilkinson. F. H. Grove. G. F. Ford.

Head Office: S. W. Money, 31 Lombard Street, London, E.C.

Owns various options and freeholds on about 9,000 acres of mineral lands in Ontario. In April, 1898, it was announced that the Syndicate had sold their options and freeholds to the Canadian Gold Fields, Limited, receiving as a consideration £30,000 in fully paid shares of that company.

CANADIAN AMERICAN GOLD MINING AND DEVELOPMENT CO., Limited.

Authorized Capital, $1,500,000, in shares of $1.00.

Directors:

J. M. Robinson. J. P. Paxton. W. J. Robinson.

Head Office: J. M. Robinson, Resident Manager, Peachland, B.C.

Owns and is developing a large number of mineral claims in the vicinity of Glen Robinson, situated about 15 miles west of Peachland, Vernon Mining Division, British Columbia.

The Mines Report 1898, says:—

"This company has this year expended over $10,000 in developing these claims. On the Alma Mater Group, north of Glen Robinson, which includes the Alma Mater, Golden Crown, Mountain Queen, Shiloh, Arthur R, Golden Tarry, and Rose Bud, three tunnels have been driven, 218 feet, 72 feet, and 115 feet, respectively, and three shafts, 14 feet, 10 feet, and 13 feet, respectively. On the Silver King Group, which includes the Silver King, Mary F, Canadian King, Julia Anna, Lily R, and Doctor L, they have sunk one shaft 15 feet, driven one tunnel 110 feet, and cross-cut 20 feet. They have also, on the main ledge on this group, a winze down 25 feet and cross-cut 40 feet. The ores are mostly free-milling. A tunnel is now being driven to cross-cut the vein on the Silver Star Group, from which the higher assays were obtained. On its course it encountered a 15-foot vein of gray and white quartz, bearing values in free gold, and on this ledge the winze is now down

CANADIAN AMERICAN CO.—Continued.

25 feet. Nine miles west of Glen Robinson, on Bald Mountain, is the Kathleen Group of claims, owned by this company. These claims are all staked on a strong ledge of rose quartz, lying between walls of granite and porphyry. The ledge is upwards of 50 feet wide, and can be traced for miles. Work was pushed vigorously last summer, and will be resumed next spring. The tunnel driven to cross-cut a fine surface showing of quartz, distant about 300 feet, is now in 220 feet. Assays (without depth) show values of $4 and $5.30. Nine miles north of Glen Robinson lies the Mineral Hill Group, also owned by the same company. These claims are all base in character. The formation is of diorite and slate, with contacts of granite and lime. The ledge is so clearly defined that the seven claims lie end to end. No development work worthy of mention has been done on them, owing to the want of transportation facilities. No ore has been shipped from any of these camps, but about 300 tons lie on the Kathleen, Alma Mater, and Silver King dumps ready for milling.

CANADA WESTERN GOLD MINING & EXPLORATION CO., Limited.

Re-incorporated under the statutes of British Columbia, 10th December, 1898. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Directors:

Arthur Marsh. | C. O'Brien Reddin.
Ross Thompson. | John McKane.
Wm. I. Reddin.

Head Office: C. O'Brien Reddin, Rossland, B.C.

Formed to locate, take over and acquire mining leases or mining claims or any other mining property in any part of British Columbia.

Owns the Glasgow and New Glasgow mineral claims on Quartz Creek, 1 mile from Ymir, on the Nelson and Fort Sheppard Railway.

CANADIAN AND AUSTRALIAN DEVELOPMENT CORPORATION, Limited.

Head Office: E. Habben, Finsbury House, Blomfield St., London, E.C.

This company was registered on 9th March, 1898, to acquire mines, mining rights, &c., in Canada, United States, Australia, &c. The Authorized Capital is £100,000, in shares of £1.

CANADIAN AND BRITISH COLUMBIAN PROSPECTING SYNDICATE, Limited.

Offices: 20 Great Winchester Street, London, E.C.

Registered on the 28th March, 1898, to carry on prospecting operations. The authorized Capital is £5,000, in 5,000 shares of £1.

CANADIAN ANTHRACITE COAL CO., Limited.

Incorporated 28th October, 1886. Capital Stock, $1,000,000, fully subscribed and paid up.

Officers:

Hon. J. G. Thorpe, Cambridge, Mass., President.

O. H. Ingram, Eau Claire, Wis. | Archibald Stewart, Ottawa.
W. K. Coffin, Eau Claire, Wis. | L. Crannell, Ottawa, Secretary.

Head Offioe: The Molson's Bank Chambers, 14 Metcalfe St., Ottawa, Ont.

Formed to mine and extract coal, especially anthracite coal, in the Dominion of Canada, and generally to carry on the business of colliery proprietors, miners and engineers, in all their branches; and also the trade or business of carriers, by water, of coal, minerals and other freight from, to and within Canada, etc., etc. The company owns about 7,000 acres of coal lands in the district of Alberta, N.W. Territories. In 1891 the colliery and lands were leased for ten years to the H. W. McNeil Company, Limited, notice of which will be found on another page.

CANADIAN BEAVER MINING & DEVELOPMENT CO., Limited OF ONTARIO.

Authorized Capital, $1,500,000, in shares of $1.00.

Directors:

J. K. Leslie. | J. E. Knox. | Thos. Bryce.
S. A. Price. | John Jones. | P. H. Drayton.
R. H. Gamey.

Head Office: Toronto, Ont.

Formed to carry on mining operations in the Province of Ontario. No information.

CANADIAN CITIZEN'S GOLD MINING CO., Limited.

Incorporated under the Laws of British Columbia. Authorized Capital, $500,000, in shares of $1.00.

Directors :

A. D. Hossack. E. J. Clark. A. E. E. Clark.

Head Office : Vancouver, B.C.

Formed to acquire the Exchange mineral claim, situated in the Kettle River Mining Division of Yale, British Columbia.

CANADIAN COPPER CO.

Organized January 6th, 1886. Capital Stock, $2,500,000, fully subscribed and paid up.

Directors :

Hon. Stevenson Burke, President, Cleveland, O.

C. W. Bingham, Vice-Pres., Cleveland. | A. H. Paget, New York.
Geo. G. Allen, Akron, O. | H. P. McIntosh, Cleveland.

CANADIAN OFFICE :

James McArthur, General Manager, Copper Cliff, Ont.

Mine Captain : Henry Davis.

Head Office : Room 12 Wade Building, 108 Superior Street, Cleveland, O.

H. P. McIntosh, Secretary-Treasurer.

This company is the owner of mineral lands in the Townships of Blezard, Creighton, McKim and Snider, and has also a controlling interest in the Vermillion mine, in the Township of Denison, in the Province of Ontario, holding in all about 13,000 acres of the richest nickel lands in the Sudbury District.

On this property twelve large deposits of copper-nickel ore are known to exist, five deposits being at the present time developed and worked as producing mines, and five having been explored by diamond drilling, will be worked as soon as the nickel market warrants such development. At present the five working mines supply enough ore to keep the smelters in constant operation.

All the mines, smelters, general office, etc., are connected by telephone lines, to facilitate the transaction of business.

CANADIAN COPPER CO.—Continued.

The working mines are known as the Evans, Stobie, Copper Cliff, McArthur No. 1 and McArthur No. 2. The ore in each of these is practically the same mixture of minerals, though varying widely in their general appearance and richness.

The ores may be described as a mixture of nickeliferous pyrrhotite, pentlandite, chalcopyrite and diorite. The diorite forms the matrix or gangue, in which the mineral occurs as shots and stringers. On the lower levels of the mines the ore occurs as massive mineral containing very little diorite. The chalcopyrite which is sorted out as copper ore, contains, when pure, about 33 per cent. copper. The pentlandite, which occurs in spots throughout the nickeliferous pyrrhotite, is a pure nickel mineral containing about 35 per cent nickel, 35 per cent sulphur and 30 per cent. iron. The nickeliferous pyrrhotite, which is the usual nickel ore, may be said to contain 60 per cent. iron and 40 per cent. sulphur, with a portion of the iron varying from 2 per cent. to 10 per cent. replaced by nickel.

The Vermillion ore contains about 25 per cent. copper-nickel and some platinum and palladium, but unfortunately there is little or no market for palladium. The yellow surface sand, which is a product of the decomposition of the underlying ore, assays about 6 ounces platinum and 7 ounces palladium per ton.

The Evans mine is situated in the south-east corner of Snider. It is fully equipped with stockhouse, crusher, sorting tables, hoisting engines and boilers, and is surrounded by neat frame houses erected by the company for the use of its employees. The mine is worked both as shaft and open pit. In the main body of the ore an open pit about 80 feet square and 200 feet deep has been sunk. The method of ore mining is particularly adapted to the Sudbury mines on account of the strength and hardness of the diorite through which the ore reaches the surface. A vertical shaft about 30 feet from the open pit follows it and communicates therewith by drifts in the ore body. The ore is quarried down in the open pit by drilling and blasting, the larger masses are blockholed and broken by small dynamite cartridges, and the ore is trammed through the drifts to the shaft, where it is hoisted by skips to the rock house. Arriving at the top of the shaft the ore is dumped over a grizzley or screen made of heavy rails, whereby the coarse ore is separated from that already broken fine, and the coarse ore is delivered in front of the crushers. These are of the Blake pattern, and crush about 20 tons per hour. The ore falls from the crusher jaws into a hopper which delivers it to a revolving screen. In the upper end of this screen the "fines" or small ore falls through a screen which is perforated with ¾ inch circular holes, and is from this delivered into its respective bins. The medium grade, or "raggings" falls through openings 1¾ inches in size in the middle portion of the revolving screen, while the coarse ore passes in pieces about 3 inches square,

CANADIAN COPPER CO.—Continued.

out of the lower end of the screen to the sorting tables. These tables are of iron, about 10 feet long by 3 feet wide, and are moved horizontally over a three or four inch stroke with a jerking motion, which carries the ore towards the end of these tables. At each side of these tables a number of boys gather the ore from the rock and throw the ore into bins, marked "copper ore," "nickel ore," and "mixed ore," according to the predominance of one mineral over the other in the specimens.

The Evans mine ore, taking the mine as a whole, will average 2.88 per cent. copper and 3.06 per cent. nickel. The Evans mine ore is readily distinguished from that from other mines by its peculiar appearance, the nickel and copper ore being scattered through the black diorite in small nuggets of globular concretions like water-worn gravel in a conglomerate rock.

The Copper Cliff mine is about a mile and a-half north by east of the Evans. The village of Copper Cliff is situated around this mine, and here the company's offices and shops are located. This mine is reached by an inclined shaft about 800 feet deep. The ore, which, on the surface, was almost pure chalcopyrite has gradually given place to the nickeliferous pyrrhotite, of which the seventh level was almost entirely composed. The machinery and rock houses used at this mine are of the same kind as at the Evans, and the ore is treated in exactly the same way. The Copper Cliff ore may be recognized by its coarse grain and the flattened appearance of the pyrrhotite crystals. The average Copper Cliff ore contains 5.98 per cent. copper and 4.40 per cent. nickel.

The Stobie mine consists of a large open quarry in the face of a hill of ore. Test pits all over the surface of the Stobie hill show the presence of the same ore as is removed in the quarry. An incline shaft penetrates the ore under the quarry and is connected therewith by a cross-cut. This mine, which lies about 3½ miles north of the Town of Sudbury, is connected with the town by railway, over which the ore is brought to the roast yard at Copper Cliff. The Stobie ore is very close grained, and does not yield so readily to sorting as the Copper Cliff and Evans ores. It is valuable more for its high iron contents as a furnace flux than for its copper nickel, of which the average ore shows 1.84 per cent. copper and 2.13 per cent. nickel. The crushing and sorting is carried on in the shaft house in the same way as that at the Copper Cliff and Evans mines.

At all of the mines the ore is loaded on flat cars and pushed by an engine to the top of a trestle which runs parallel with the roast yard. This yard is about half a mile long and 100 to 150 feet wide, and has a capacity of treating about 300,000 tons of ore per annum. On this yard the ore is piled to a height of 8 or 10 feet on an 18-inch bed of soft wood, each pile being of rectangular oblong shape, and containing from 600 to 2,500 tons of ore. The wood being fired each heap burns from four to six months, the sulphur being lowered to

CANADIAN COPPER CO.—Continued.

about 7 per cent. and the iron being partially oxidized. When cold the ore is taken to the smelters. These are of Herreshoff pattern, of boiler iron, water-jacketed, about 9 feet in height, of oval section, 6 feet 6 inches by 3 feet 3 inches at the tuyures, and completely surrounded by a 3-inch water jacket. Five furnaces are in continuous operation. Each furnace uses 100 tons of ore and produces 12 tons matte per day. This matte passes from the furnace into an iron-cased, brick-lined, water jacketed forehearth or well, in which the slag rises to the surface and flows over a slag-spout to a water-jet beneath the floor, whereby it is granulated and carried to the dump. The matte is tapped from the forehearth at 20 minute intervals into conical cast-iron pots holding about 800 pounds in which it is sometimes allowed to cool, and at other times poured into thin sheets on a slag for greater convenience in breaking up.

The average grade of standard matte contains copper, 20 to 25 per cent.; nickel, 15 to 18 per cent.; iron, 25 to 35 per cent., and sulphur, 20 to 30 per cent.

CANADIAN EXPLORATION COMPANY, Limited.

Incorporated under the Statutes of British Columbia 30th January, 1899.
Authorized Capital, $250,000, in shares of a par value of $1.00.

Head Office : Vancouver, B.C.

Formed to prospect for, open, work, explore, develop and maintain gold, silver, copper and other minerals, &c.

CANADIAN GOLD FIELDS, Limited.

This company was registered 26th February, 1898, with a Capital of £150,000 in £1 shares, to acquire the property of the Canadian Gold Fields, Limited, registered on 16th June, 1896, (now being wound up) and certain property of the Canada Venture Syndicate, Limited.

Head Office: A. Neville, 3 Lombard St., London, E.C., England.

Mines Office: T. P. Kirkegaarde, Superintendent, Deloro, Ont.

Controls and is operating certain mineral claims at Deloro, Hastings County, Ontario, on which, during 1896 and 1897, extensive works were erected and a large force employed to recover gold from the mispickle ores of the district by the Sulman-Teed bromo-cyanide process.

The properties comprise lot 9 in the eighth concession of Marmora, 10 in the sixth, the west half of 10 and the north-east quarter of 8 in the ninth; in all 525 acres.

CANADIAN GOLD FIELDS SYNDICATE, Limited.

Registered in British Columbia December, 1896. Authorized Capital, $1,000,000, in shares of a par value of 10 cents.

Directors :

Dr. R. J. Wilson, Toronto.
W. A. Charlton, M.P P., Toronto.
Alex. Pridham, Grenville, Que.
Thos. Hobbs, London.
J. W. Graham, Montreal.
J. C. Drewry, Rossland.
J. K. Kerr, Q.C., Toronto.
Thos. Wilson, Clarence, Ont.
Robert Davison, Picton, Ont.
Albert MacGarvey, London, Eng.

Officers :

Dr. R. J. Wilson, President. Alexander Pridham, Vice-President.
J. C Drewry, Managing Director.

Head Office : Howard C. Glassford, Secretary, Toronto.

Mines Office : J. C. Drewry, Managing Director, Rossland, B.C.

Owns and is developing the Sunset No. 2, Alabama, Gold Hunter and other claims near Rossland, British Columbia. The following is excerpted from the last Directors' Report :—

"The Canadian Gold Fields Syndicate, Limited, was incorporated December 9th, 1896, with an authorized capital of $1,000,000.00, divided into 10,000,000 shares of a par value of 10 cents each. Up to the 17th day of March, 1898, the date of the Auditors' Report, 2,229,365 shares have been either sold or paid on account of the purchase of property, leaving a balance of 7,770,365 shares still in the Treasury, available for the purposes of the company.

"During the year 1897 a course of systematic surface exploration followed by development, was pursued on the 'Sunset No. 2.' Most encouraging results were met with, three parallel veins being found to traverse the property from east to west, all well defined and all carrying pay values, as established by frequent assays. The No. 1 vein was perhaps the strongest and best defined of the three.

"Exploration and development work was carried on by hand until October 5th, 1897, when a seven-drill compressor plant was installed on the 'Sunset No. 2' and 'Alabama.' This plant consists of a seven-drill compressor, 80 H.P. boiler, pumps, hoisting engine, etc.,—in fact, everything necessary to work the property to a depth of five hundred feet.

"Up until April 1st, 1898, about 1,300 feet of underground development had been accomplished on the 'Sunset No. 2.'

"The directors deemed it advisable to purchase the 'Gold Hunter,' a 52-acre claim adjoining the 'Sunset No. 2' and 'Alabama' on the west. The

CANADIAN GOLD FIELDS SYNDICATE—Continued.

veins on the 'Sunset No. 2' are known to extend across the 'Gold Hunter.' They secured the 'Gold Hunter' on most advantageous terms, *i.e.*, $20,000 in cash payments, and $15,000 in fully-paid-up shares of the Syndicate at par. The Syndicate now own the largest solid block of any mining company in the Mineral Belt at Rossland.

"W. A. Carlyle, British Columbia Provincial Mineralogist, in his last report says: (see pages 537, 538 and 539) "'Sunset No 2' has passed into strong hands," and again "on the 'Sunset No. 2' ore has been found carrying good values in three places," referring to the three veins.

"The directors wish it clearly understood that although all of the ore thus far disclosed in the 'Sunset No. 2' has not been pay ore, yet at different points on all three of the veins, high-grade pay ore has been disclosed, assaying from $36 to $66 per ton in all values. These high values were necessarily fed from large and rich ore bodies below, and it only requires systematic and thorough development work to open up these ore bodies. That is what the directors have been doing and the course they recommend for the future.

"The directors are pleased to be able to announce that within the past few weeks a material reduction has been made in both freight and treatment rates at Rossland. The old rate was $11 per ton, but now both the Le Roi Smelter at Northport and the C. P. R. Smelter at Trail are offering a $7.50 rate for freight and treatment. It is confidently expected that a still further reduction will be made as soon as the Crows Nest Pass Railway is completed, and cheaper coal and coke thus afforded.

"Subsequent to the date of the auditors' report the directors authorized the sale of an additional 500,000 shares of stock, 300,000 of which were immediately purchased by three of the directors. This was for the purpose of paying for the 'Gold Hunter' and providing for the continuance of the systematic development of the properties."

FINANCIAL STATEMENT

From the 17th day of March, 1898, to the 31st day of December, 1898.

RECEIPTS.

To Cash from Sale of Stock	$66,225 00	
" Bills receivable	234 00	
" Receipts from Ore	105 54	
" Sundry Credits	312 59	
" Cash returned W. A. Charlton	59 25	
" Interest	14 80	
" Mortgage Loan	8,100 00	
" Credit Bills payable	1,366 00	
		$76,417 18

CANADIAN GOLD FIELDS SYNDICATE—Continued.

DISBURSEMENTS.

By Development Charges	$29,252 24	
" Cash paid Machinery Acct	1,250 00	
" Payment Gold Hunter Property	35,125 00	
" Profit and Loss (Commissions)	10,209 50	
" Salaries, Rent, etc.; Toronto Office, Printing, Advertising, Telegraphing and Sundry Charges	547 37	
" Credit Balance in hands of Imperial Trusts Co.	33 07	
		$76.417 18

LIABILITIES—TO SHAREHOLDERS.

Capital Stock, 2,891,885 shares issued at par 10c.	$289,118 85

LIABILITIES TO THE PUBLIC.

James Cooper Manufacturing Co.	591 60
Mortgage Account	8,100 00
Smelter Raturns	105 54
Sundry Creditors	312 59
Bills payable	1,366 00

ASSETS.

Sunset and Alabama Mines, for cost of Claim	$120,000 00		
Development	119,323 22		
		$239,323 22	
Jennie Claim, cost of Claim	12,000 00		
Development	205 45		
		12,205 45	
Gold Hunter, cost of Claim, etc.		35,125 00	
Machinery and Buildings		12,013 82	
Furniture and Fixtures		963 67	
Imperial Trusts Co. of Canada		33 07	
		$299,664 23	$299,664 23

CANADIAN GOLD MININC CO., Limited.

Incorporated 12th October, 1896. Authorized Capital, $1,000,000, in shares of $1.00

Directors:

John A. Smith. Robert Scott. Edward Hewitt.
all of Rossland.

Head Office: Edward Hewitt, Rossland.

Owns and is developing six claims, the Colebrook, Mullan, Queen of the Hills, Primrose, Woodbine, and Dufferin, situated about 3 miles from the town of Ymir, British Columbia.

CANADIAN KING GOLD MINING CO., Limited.

Incorporated under the laws of British Columbia, 22nd December, 1897.
Authorized Capital, $1,200,000.

Head Office: Spokane, Wash.

Canadian Office: A. W. Boyd, Erie, B.C.

CANADIAN MINERALS COMPANY, Limited.

Offices: A. W. Smith, Secretary, 22 Great Winchester St., London, E.C.

This company was registered on the 15th October, 1897, and entered into an agreement, dated 13th December, 1897, with Alfred E. Ann, for the acquisition of certain properties in the Rainy River District of Ontario. The pur chase consideration was £80,000, in fully paid shares. The Authorized Capital is £100,000, in shares of £1.

CANADIAN MINES DEVELOPMENT CO. Limited.

Registered May, 1899. Authorized Capital, £300,000, in shares of £1.

Directors:

Right Hon. Sir Edward Thornton.
Oscar Andreae. Hon. G. E. Hill Trevor. A. C. E. Hill.
Hon. Lyman M. Jones. Edmund Bristol.

Head Office: C. E. R. Betteley, Secretary, St. Stephen's Chambers, Telegraph Street, London, Eng.

CANADIAN OFFICE:
Edmund Bristol, 103 Bay Street, Toronto.

Mines Office: Foley, Seine River, Ontario, via Tower, Minnesota.

Formed to acquire valuable mining properties in the Rainy Lake Gold Fields, Ontario.

The properties include the well known Foley Mine, which consists of a mining claim area equal to about 191 acres, described in the Government returns as Locations AL 74, 75, and 76, situated on the North Shore of Shoal Lake, Seine River District.

In addition to the Foley Mines, the Company acquires the following Mining properties, leases and freeholds situate in the vicinity, and which can be developed advantageously and economically in combination with the Foley Mine—viz.:

CANADIAN MINES DEVELOPMENT CO.—Continued.

80 Acres.—H.W. 59, 60, situated on Doyle Lake, North of Lower Manitou Lake, in the Manitou District.
74 " G. 96 (¾ interest) situated in Upper Seine River District, near Osinawe Creek, near Reserve Island.
35 " G. 97, situated on Upper Seine River District.
89 " G. 98-99 " "
77 " G. 100-101 " "
160 " G. 109-110, situated near Little Turtle Lake.
39 " (13/16 interest) K. 426, situated on Hall Lake, Saw Bill District.
44 " (13/16 interest) K. 418, situated on Edward Lake.
38 " (¾ interest) G. 150, A. B., situated in Manitou Lake.
98 " (13/16 interest) K. 425-419, situated on Saw Bill Lake.
74 " (9/16 interest G. 7, situated in Manitou Straits.
230 " (P. 732-736-737, situated on Seine River, near Sturgeon Falls.
170 " (¾ interest) S. V. 133-134, situated in Pipestone District.

It is proposed at a later date to form subsidiary companies for working portions of this large area, but until further development has taken place the exact arrangements cannot be given.

The purchase-price as fixed by the vendors, the Foley Syndicate, Limited, who are also the promoters, at £200,000; payable as to £150,000 in fully paid shares, and the balance of £50,000 in cash or shares at the option of this Company. The Vendors have made arrangements whereby the subscription of 25,000 shares is assured for the provision of working capital.

The purchase includes the following machinery now on the Foley Mine, viz.: a new 20-stamp mill, by Fraser and Chalmers, with appliances; a 12 Canadian Rand Drill power plant, with hoisting gear and plant, buildings, tramroads, and general appliances for active operation.

The Company will also under the contract have the option of acquiring another property of 120 acres in the same district, payment for which can be made by the issue of 25,000 shares of the reserve capital.

CANADIAN MINING AND SMELTING CO., Limited.

Incorporated 14th June, 1897. Authorized Capital, $200,000, in 40,000 shares of a par value of $5.00.

Directors:

Hon. Hugh J. Macdonald. | J. H. Brock. | W. J. Christie.
Thomas Kelly. | F. H. Phippen. | D. E. Sprague.
J. H. Brown.

Head Office: Winnipeg, Man.

Formed to acquire and work a tract, or tracts of mineral land in the Province of British Columbia, or elsewhere, in the Dominion of Canada, and to work and develop the resources of the same.

CANADIAN MINING, MILLING & SMELTING CO., Limited.

Incorporated in British Columbia, 16th Dec., 1896. Authorized Capital, $2,000,000, in shares of a par value of $1.00.

Directors :

C. K. Hammond. G. F. Hopkins. W. I. Elliott.
A. W. Stubbs. A. D. Williams.

Head Office : C. Kearney Hammond, Sandon, B.C.

Formed to acquire the "Homestretch," "Glacier 4," and "Clara G" mineral claims, situate at the head of Kokanee and Kaslo Creeks, British Columbia.

CANADIAN MINING SYNDICATE, Limited.

Registered 14th June, 1897. Authorized Capital, £50,000, in 50,000 shares of £1 each ; 23,000 shares have been issued.

Directors :

Joseph Wheatley, Chairman.
Joseph A. Armitage. James R. Bottomley. James Moss.

Head Office : W. H. Hughes, 23 John William Street, Huddersfield, England.

Formed to acquire certain mining rights in British Columbia.

CANADIAN MINING TRUST CO., Limited.

Incorporated under Dominion Statutes 14th April, 1897. Authorized Capital, $100,000, in shares of a par value of $100.

Directors :

W. D. Matthews, Toronto. | H. P. Dwight, Toronto.
W. R. Brock, Toronto. | Thos. Walmsley, Toronto.
S. F. McKinnon, Toronto. | H. M. Pellatt, Toronto.
Frederic Nicholls, Toronto. | C. J. Campbell, Toronto.
A. S. Irving, Toronto. | A. E. Ames, Toronto.
Wm. MacKenzie, Toronto.

Head Office : Toronto.

Formed to acquire by purchase, lease, location, a tract or tracts of mineral and other lands for mining purposes and mining rights, &c.

CANADIAN PROSPECTORS, Limited.

Offices: 79½ Grace Church Street, London, E.C.

This company was registered on the 14th January, 1898, to carry on prospecting operations. The Authorized Capital is £2,000, in 400 shares of £5 each.

THE CANADIAN PACIFIC EXPLORATION, Limited.

Registered February 2nd, 1897. Authorized Capital, £500,000, in shares of £1 each. Shares issued, £315,000.

Directors:

The Right Honorable Viscount Powers Court, K.P. Chairman.
J. M. MacLean, M.P., 40 Nevern Square, S.W. Vice-Chairman.
G. H. Haywood, D. L. Dyers Hall Wharf, Upper Thames Street, E.C.
A. Joshua, 12 Collingham Gardens, S.W.
T. Edwards, 87 Queen's Gate, S.W.
B. Rey, 22 Rue Lafayette, Paris, Banker.
J. H. Trouncer, M.D., Cedar House, Surbiton.
W. H. Corbould, 88 Cannon Street, London, E.C.

Head Office: H. B. C. Callow, Secretary, 88 Cannon Street, London, E.C., England.

CANADIAN OFFICE:

First Avenue, Rossland, B. C. W. H. Corbould, Managing Director.
A. B. Irwin, Manager. H. Kehoe, Mining Engineer.

Formed to purchase from a Canadian Syndicate a group of mining properties, and to carry on all kinds of mining, prospecting, industrial, and financial operations in Canada and elsewhere. At present the company owns and have under option several different groups of mining properties in the Kootenay district of British Columbia. The group on which development is most advanced is the Porto Rico, on the north fork of Salmon River, Nelson Division, Province of British Columbia.

In his statement of the affairs of the company presented at the last meeting of shareholders in February, 1899, the Chairman said:

"We believe we have an excellent property in the Porto Rico mine, and we have considerable hopes of much benefit arising from our acquisition of an interest in Arizona. The company has besides a few mining properties which are as yet unproven, but any one of which may at any time turn out

CANADIAN PACIFIC EXPLORATION—Continued.

to be of value. Turning now to our principal asset, the Porto Rico mine. You have all received the valuable report which our managing director made in October last. You will observe that in it he estimates the value of the ore of $16 per ton, less 6 per cent. loss; that is to say, $15.14. It is very satisfactory to find that the results of our six weeks' working have not only been up to this estimate, but even in excess of it.

"The result of the first crushing of clean ore for ten days was 142 tons, giving a return of 291 ozs. of retorted gold. The cable's report for the month ending January 18th, shows that 540 tons were crushed for 561 oz. of gold. I may mention that in January, 1898, we also sent 40 tons of sorted ore to the smelter at Trail, which showed a return of 148 oz., or 3 oz. 14 dwt. per ton of 2,000 lb."

Mr. W. H. Corbould (managing director) said: "It affords me great pleasure to have the opportunity of being here to-day. At the commencement of the company I predicted that British Columbia was one of the coming mining districts, and I think you will agree with me that the returns which our chairman has just given us, bear out the fact that I was not mistaken in my opinion regarding the mineral resources of that part of the Empire. Those of you who have seen a copy of "Rossland in 1898," issued by the Rossland Board of Trade, will doubtless have observed from the illustrations the rapid progress that has taken place in the Kootenay district, which only a few years ago supported a small number of trappers and hunters.

"Large works have been erected in different localities for the treatment of ores, and mines have been developed to a considerable depth. The power from some of the rivers which for ages past has been of no value, has now been harnessed, and the electricity generated by this means transmitted to the mines. I may mention that on the Kootenay River the power plant there develops about 20,000 horse power, which is transmitted thirty miles to Rossland, and the owners contemplate utilising two other falls, which will give them 60,000 available horse power. All over the country there is an abundance of fuel and water. As to the value of the lodes in depth, the Le Roi has been proved to a depth of 700 feet, the War Eagle to a depth of 500 feet, and our mine, the Porto Rico, to about the same depth.

"We under the circumstances, decided to throw up our options, and settled down to place the Porto Rico mine in a paying state. To have retained the options and have made several payments that were due would have crippled us and left us with a lot of properties, but with no money to run them.

"Crushings.—During January of last year the company shipped to the smelter at Trail about 40 tons of sorted ore from our Porto Rico mine, which yielded a return of 3 oz. 14 dwt. gold per ton of 2,000 lb. The result of the

CANADIAN PACIFIC EXPLORATION—Continued.

first clean-up at the company's mill, which started on the 8th December last, was as follows :—We crushed 142 tons which gave a return of 291 oz. of retorted gold, also 20 tons of concentrates, valued at about $500. On the 18th January, the result of the first month's working of the mill at the mines was as follows :—We crushed 540 tons of ore and country for 561 oz. of gold, also concentrates, value $400.

"The present cost of mining and milling at the Porto Rico mine, was about eight or nine dwt. per ton, while the value of the ore, according to the crushings they had received, he estimated at $16 ; the returns however, so far, had been over an ounce. Later on, if the development warranted, with an extra twenty or thirty head, the cost of mining should be reduced to $4 or $5 a ton."

CANADIAN PACIFIC GOLD MINING CO., Limited.

Authorized Capital, $750,000, in shares of a par value of $1.00.

Directors :

Allan McQuarrie. H. J. Moorehouse. Hugh Miller.
A. G. Duncan. Moses McFadden.

Head Office : Rossland, B.C.

CANADIAN PACIFIC MINING AND MILLING CO.

Incorporated 1895. Authorized Capital, $500,000.

Head Office : Minneapolis.

Mines Office : J. R. Hardie, Superintendent, Ainsworth, B.C.

Owns and operates the "Amazon," "Budweiser," "Superior," and "Wakefield" claims at Woodbury Creek, near Ainsworth, Province of British Columbia. The following details of the development and plant are from the report of the Minister of Mines for the year 1896 :

Budweiser—One of the tunnels was in 65 feet, and following along a fault plane above which the rock is much fractured and seamed with little quartz veins, carrying a small amount of copper and iron pyrites and some galena, also $3.5 in gold. Upon the face of the cliff could be seen a quartz vein, following along this line of break, while 25 feet to the north is a small parallel vein of galena. Between these two veins or 25 feet, this rock, carrying a small percentage of sulphides, is said to be concentrating ore, but this has yet to be proven by mill tests.

CANADIAN PACIFIC MINING AND MILLING CO —Continued.

Two other prospecting tunnels are on this claim, one 60 feet long, in the wash, from which large boulders of brecciated rock have been taken, carrying a very fine grained galena, assaying 30-40 oz. in silver. Another tunnel, 45 feet, followed a small vein of large cubed galena.

Amazon—This tunnel, being run with a machine drill, was in 120 feet, following a galena blend vein dipping also southerly 70° to 75°, with, in places, 8 to 14 inches of solid ore in quartz and calcite. This vein can be seen running up the face of the cliff, and in places is four feet wide, and what is rather unusual the ore carries considerable pyrrhotite. On another vein, 14 to 20 inches wide, two tunnels have been run in on either side of the creek, one for 140 feet, the other for 120 feet.

Wakefield—On the top of the bluff a shaft has been sunk 140 feet in another vein of mixed galena ore, 4 to 24 inches wide, that gives good assays in gold.

There has been built, at a cost of $6,000, a splendid flume 1,200 feet long, 3½ by 4 feet, to the mouth of the creek, where the water enters a 36-inch penstock or pipe, which at the bottom has a Y-connection to two Pelton wheels, under a head of 75 feet. A 42-inch Pelton is now running a 12-drill air compressor, made by the Ingersoll-Sergeant Drill Co., Montreal, while the mill will be run by a 6-ft. wheel, both wheels having a 5-multiple nozzle. Along the top of the covered flume runs the air pipe and track, and 500 feet farther to the farthest present workings from the mill.

The mill, situate one-quarter mile from the lake, is equipped with crushers, rolls, jigs, etc. The ore bins are immediately below the tramway, and the capacity of the mill is 75 tons for 24 hours. A tramway has been built for 1,400 feet to the lake side where is deep water, and ore and concentrates can be easily loaded into the steamers. Cost of mill, $12,000.

Owing to certain difficulties in the company the concentrator was not in operation in 1898.

CANADIAN SMELTING WORKS.

Formerly the property of the British Columbia Smelting and Refining Company, Limited, who, in March, 1896, sold to the present proprietors, the Canadian Pacific Railway Company, who operate under a charter of the British Columbia Southern Railway.

Officers:

W. H. Aldridge, General Manager.
A. L. Dean, Superintendent.
Jules Le Barthe, Engineer.
J. C. Welsh, Chief Chemist & Assayer.
T. W. Bingey, Accountant.
D. W. Moore, Ore Buyer.

Office and Works: Trail, British Columbia.

CANADIAN SMELTING WORKS—Continued.

Since the Canadian Pacific Railway Company took over these works, some $200,000 have been expended in rebuilding and improving the copper plant and in adding lead furnaces. To-day it is the largest lead copper reduction works in Canada, and in the matter of modern improvements and cheap methods of handling material, compares favorably with the most modern plants in the United States.

The total daily capacity of these works is close to 1,000 tons, the copper blast furnace being capable of smelting close to 800 tons, while the lead furnace can smelt over 150 tons per day.

The plant can be operated by three different powers; first, steam; second, water power developed from neighboring streams; and third, by the power of the West Kootenay Power Company, whose power plant is at Bonnington Falls.

The plant consists of the following:—Two complete automatic sampling mills, one for crushing and sampling Rossland gold copper ores, and the other for crushing and sampling the high grade lead silver ores from the Slocan and East Kootenay districts; three large copper blast furnaces, one 150 ton lead blast furnace, one large reverberatory, two automatic O'Harra roasters, six Bruckner roasters, four hand roasters, 24 roasting stalls, one briquetting plant, and two lime kilns. There is also a copper refinery, and it is intended that a lead refinery will be built within the next year or two.

There are the usual offices, assay office and laboratory, warehouse, a complete machine shop, and quarters for the employees of the works.

CANADIAN UNITED GOLD FIELDS, Limited.

Offices: 2 Cowper's Court, Cornhill, London, E.C., England.

Registered on the 2nd of March, 1898, to adopt an agreement dated 1st March, 1898, with the London and B.C. Alliance, Syndicate, Limited, of the one part, and J. L. Symon as trustee for and on behalf of this Company of the other part, and an agreement with W. J. R. Cowell, on his own behalf and on behalf of the Victoria Metallurgical Works Company, Limited, of the one part, and J. L. Symon for this Company of the other part, and to carry on in British Columbia or elsewhere the business of explorers, traders, etc. The Authorized Capital is £250,000 in 250,000 shares of £1 each.

C. AND C. MINING COMPANY, Limited.

Registered in British Columbia 2nd July, 1896. Authorized Capital, $500,000, in shares of $1.00.

Head Office: J. L. G. Abbott, Secretary, Rossland, B.C.

Owns the C. and C. mineral claim on Monte Christo Mountain, Rossland District, British Columbia.

CANYON CREEK MINING AND DEVELOPMENT CO., Limited.

Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Directors :

Isaac S. Freeze. Donald McLean. George S. McArter.

Head Office Rossland, B.C.

CAPE BRETON COLLIERY.

Organized, 1893.

Owners :

J. T. Burchell. J. E. Burchell.

Managing Owner: J. T. Burchell, New Campbellton, C.B., N.S.

The colliery worked was acquired by the present owners in June, 1893, but was worked as far back as 1861. It is situated at New Campbellton, at the mouth of the Big Bras d'Or Lake, Cape Breton County, Province of Nova Scotia. The property covers an area of three miles.

Seam of 4 foot worked ; dip, 12° ; opened by slope, 1,000 feet. A. Ferguson, Underground Manager.

System of working—Pillar and room.
Ventilation by furnace.
Lamps—Naked.
Hoisting engines—Pair 12 in. x 16 in. cyl., single drum, dia. 5 feet.
Pumps—One Cameron, 15 in. cyl., 9 in. plunger.
Boilers—Two locomotive, 50 h.p., and one tubular, 110 h.p.
Railway—One and a-half miles to shipping wharf, 3 ft. guage, 40 lb. steel rails.
Ingersoll-Sergeant Compressor, 16 x 18.
Five Ingersoll coal cutting machines.

COAL DISPOSALS, 1894-97.

	1894. Tons.	1895. Tons.	1896. Tons.	1897. Tons.	1898. Tons.
To Quebec	900	1,303	7,391	4,077	2,303
" Newfoundland	3,915	68	1,500	138	702
" Nova Scotia	6,036	4,763	5,094	5,892	5,437
" P.E. Island	2,331	624	535	1,361	1,080
" New Brunswick	898	368	580	294	326
" St. Pierre	.....	365	131	.....	134
" Other countries	595	.....	534	576	.....
" Colliery consumption	2,098	1,680	1,474	2,820	1,925
" " employees	313	318	518		740
Total	17,086	9,489	17,757	15,159	12,647

The Company also operates a quarry of superior Dolomite.

CAPE BRETON COPPER CO., Limited.

Incorporated 15th January, 1896. Authorized Capital, $2,000,000, in shares of $10.

Directors :

Captain Isaac P. Gragg, President.

Col. Albert A. Pope. | G. T. W. Braman.
Henry W. Richards. | M. F. Dickinson, Jr.

Head Office : 53 State Street, Boston.

Mines Office : Coxheath, C.B., N.S.

Formed to acquire and work the copper mining leases and other property in Cape Breton County, N.S., formerly owned by the Eastern Development Co., Limited. After purchase of the property, $1,348,000 worth of stock at par remain in the Treasury for working capital.

Plans and estimates for further development of the mines, erection of concentration, smelting and refining works, and building of seven miles of railroad have been completed by Dr. Edward D. Peters, Jr., Copper Metallurgist, of Boston, Horace F. Brown, Mining Construction Engineer, of Chicago, and Charles M. Odell, C.E., of North Sydney, and the Company expects to be able to commence operations during the present year. Owing to the very favorable conditions in Cape Breton of cheap fuel and direct water communication to all parts of the world, the Company expects to produce refined copper and market it at a very low cost per pound. Present developments at the mine include four shafts sunk 325 feet, 176 feet, 100 feet, and 40 feet respectively, which have developed two strong veins. 50,000 tons of copper ore have been placed in mining sight, which is estimated to average from five to six per cent. copper, with a little gold and silver. The property has been reported upon by George Grant Francis, M.E., Dr. Edward D. Peters, Jr., Metallurgist, and examined by Edwin Gilpin, Jr., Inspector of Mines of Nova Scotia, Mr. Elric Drew Ingall, of the Dominion Geological Survey, and other well known mining men and experts.

CARBONATE SILVER MINES, Limited.

Incorporated September, 1898. Authorized Capital, $1,000,000, in shares of $1.00.

Head Office: Rossland, B.C.

Formed to acquire by amalgamation or otherwise the assets, rights, powers, privileges and franchises of the "Carbonate Silver Mining Company, Limited," and to purchase and acquire the interest or shares of any or all of the shareholders in the "Carbonate Silver Mining Company, Limited Liability," and to issue paid-up stock of the company, or stock of the company in part paid-up or both therefor. And to adopt and to carry into effect, with or without modification, certain agreements which have been already prepared and are expressed to be made between the "Carbonate Silver Mining Company, Limited Liability," of the one part, and Stanley P. Thompson, of the same place, on behalf of the company, of the other part, and which agreements are to be signed immediately after the incorporation of the company, copies whereof have, for the purpose of identification, been subscribed by Albert Howard MacNeill, Esquire, a Solicitor of the Supreme Court. And also to adopt and carry into effect any agreement made between the said "Carbonate Silver Mining Company, Limited Liability," and its liquidator, and the company which has the object of carrying out any arrangement under section 13 of the "Companies Winding-up Act, 1898."

CARIBOO CONSOLIDATED, Limited.

Registered May, 1899. Authorized Capital, £350,000, in shares of £1 each.

Directors:

Lieut.-General Sir James Bevan Edwards.
Maures Horner. A. P. B. Loftus. John Girdwood, J.P.

Head Office: E. W. Ayres, Secretary, 18 St. Swithans Lane, London, E.C., England.

This company has been formed to acquire 19 mining properties in British Columbia, comprising an approximate area of over 12,000 acres, together with five miles of dredging rights. The whole of these properties, which have been carefully selected, are situated in the Cariboo and Lillooet Districts, B.C. It is proposed to work these in different ways, namely, by drifting, by

CARIBOO CONSOLIDATED—Continued.

hydraulicing, and by dredging. The claims and their acreage are as follows :—

Name.			Approximate Acreage.
Lightning Creek			320
Lowhee Creek			240
Cunningham Creek			320
1½ mile North Fork, Quesnell River	Cariboo Lake.	3 leases of 5 miles each equal to about =	9,600
Keithley, Bar			
Pine Creek Bar			
Goose Creek Bar			
Harvey Greek Bar			
Duck Creek Bar			
Swamp River 1 mile			
Quesnelle Forks—Government Reserve			240
Cedar Creek Bar			300
French Creek			320
San Juan and Boyces			160
Cariboo Creek (Champion Gulch)			80
Eureka Gulch			160
Chinese Hill (Au Quay)			80
British Empire			240
			12,060
Fraser River and Cayuse Creek			5 miles dredging rights.

The purchase price has been fixed by Gold Lands Corporation, Limited, who are the vendors to and promoters of the company, at £250,000, payable as to £60,000 in cash, and as to £190,000 in fully-paid shares of the company, or partly in cash and partly in fully-paid shares. Provision is made in the agreement of sale for a proportionate reduction of the purchase consideration in case the company should not take over any particular properties.

Gold Lands Corporation, Limited, have secured control of the properties proposed to be acquired by this company, and have entered into the following contracts :—Two agreements, both dated 1st June, 1898, between the Occidental Syndicate, Limited, and Gold Lands Corporation, Limited, Two agreements dated respectively 14th November, 1898, and 5th May, 1899, between Ernest A. Bremner and Gold Lands Corporation, Limited, and an agreement dated 5th May, 1899, between Gold Lands Corporation, Limited, and Robert Wallace Chilver, as trustee for this company, the latter being for a re-sale of the properties to this company at a profit.

CARIBOO CONSOLIDATED MINING & MILLING CO., Limited.

Reorganized 25th October, 1898, (formerly the Cariboo Mining, Milling and Smelting Co.) Authorized Capital, $1,250,000, in shares of a par value of $1.00.

Directors:

Robert Jaffrey, President.
H. M. Pellatt, Vice-President.
Geo. B. McAulay, Managing Director
S. V. McMichael, Treasurer.
Edgar A. Wills, Secretary.
A. Ansley.
Jas. Monaghan.
G. B Smith.

Head Office: Edgar A. Wills, Board of Trade Building, Toronto, Ont.

Mines Office: Jos. P. Keane, Mine Superintendent, Camp McKinney, B.C.

Owns and operates the Cariboo, Amelia, Alice, Emma and Maple Leaf claims at Camp McKinney, Osoyoos Mining Division of Yale, British Columbia. Work is at present confined to the Cariboo and Amelia claims, from which, in 1898, 7,530 tons of rock milled gave 11,000 ozs. gold of a total value of $132,000. Concentrates 260 tons of a value of $20,800. The workings, to date of report, comprise: 950 feet drifting in the fourth level, and two upraises, 85 feet each, to the third level. The fourth level is 250 feet down, and the shaft is being sunk to the fifth level, which will be 350 feet below surface when completed; 20-stamp battery, Gates ore breaker, Wilfley and Johnson concentrators. Mining plant comprises pump, compressor and drills. 40 persons employed. Total dividends paid to 31st May, 1899, (inclusive of those paid by previous company) about $320,000.

CARIBOO CREEK AND CANADIAN MINING AND DEVELOPMENT CO., Limited.

Incorporated, under the laws of British Columbia, 8th March, 1897.
Authorized Capital, $2,000,000, in shares of $1.00.

Directors:

F. Clemow. John G. McMillan. Hon. T. Mayne Daly.
Edward C. Finch. Hon. Donald McMillan.

Head Office: Leo H. Schmidt, Secretary, Rossland, B.C.

Owns the Golden Hope, Golden Age, Snowbird, Productor, Trio and I.X.L., situated in the Cariboo Creek Camp, Slocan Division of British Columbia.

CARIBOO EXPLORATION COMPANY, Limited.

Registered 12th May, 1898. Authorized Capital, £20,000, in shares of £1.

Head Office: 215 Piccadily, London, England.

CARIBOO GOLD FIELDS, Limited.

Registered 1896. Authorized Capital, £100,000, in 50,000 ordinary shares of £1 each, and 50,000 preference shares of like amount. The preference shares are entitled to a preferential dividend of 10 per cent., and after the ordinary shares have received a like dividend, both classes of shares will rank *pari passu* in the distribution of further profits.

Directors:

Edwin Bonner. Arthur Cundall. Robt. M. Meyer. E. Collins. W. James Webster.

Head Office: W. B. Brough, 6 and 8 Eastcheap, London, E.C.

Mines Office: Barkerville, B.C.

Formed to acquire and work the gold mining concessions and water rights on Williams' Creek, Cariboo District, British Columbia, of the Whittier Gold Concessions, Limited, and certain other claims of which an option of purchase has been obtained. The concessions and claims comprise the bed of Williams' Creek for a distance of nearly two miles.

During the past four years, this company has most persistently and perseveringly prosecuted the work on their extensive system of ditches, flumes and reservoirs, and on the installation of the immense steel pipe line conducting water to their hydraulic elevators. During the past season they made a start in raising gravel. Their plant is the most extensive and powerful of its kind in the world, raising gravel as it does by hydraulic pressure, ninety feet vertically, in one lift. While the trial proved this method of handling the gravel to be entirely feasible and satisfactory, the troubles and set-backs incident to the starting of such an enormous work were experienced, and the opening of the pit from the surface to bed-rock was necessarily slow. Owing to the short season, the capabilities of the plant were not shown under a steady working test. Enough ground was handled, however, to prove the value of the gravel, which was entirely satisfactory.

When the water supply became too small to further work the elevators, a large force of men were busily engaged until winter set in, improving and increasing the water supply, by widening the old and constructing new ditches, building dams to augment their storage system, and, in the light of their working experience, placing the whole plant in perfect working order for the season of 1899.

CARIBOU GOLD MINING CO., Limited.

Incorporated by an Act of the Legislature of Nova Scotia, 1894.
Authorized Capital, $500,000.

Directors:

Hon. David McLennan, St. John, President.

Nathaniel Curry, Amherst. | Hon. A. C. Blair, M.P., St. John.
A. G. Cunningham, Halifax. | J. Lester Jennison, New Glasgow.
Hon. J. W. Longley, Halifax. | J. Fenwick Fraser, St. John.

Head Office: A. G. Cunningham, Sec.-Treas., P.O. Box 102, Halifax.
J. Fenwick Fraser, St. John, N.B., Managing Director.

The property comprises certain gold mining areas in the Caribou district, County of Halifax, N.S.

CARLTON HOOD MINING CO., Limited.

Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Directors:

J. A. Payzant. Thos. Donald. John Sinclair. R. A. Mackay.
Hon. T. M. Daly.

Head Office: Rossland, B.C.

Formed to acquire the Mt. Ranier, the Mt. Hood and the Mt. Carlton mineral claims, situate in the Trail Creek Mining District, British Columbia.

CARMAN NATURAL GAS CO. OF ONTARIO, Limited.

Incorporated March 20, 1899. Authorized Capital, $30,000, in shares of $100.00 each.

Head Office: Petrolia, Ont.

Directors:

F. J. Carman, Bothwell, Ont. | I. Greenizen, Petrolea, Ont.
J. S. Carman, " " | A. M. McQuien, " "
A. E. Shaunessy, Sarnia, Ont.

Formed to construct, maintain, complete and operate works for the production, sale and distribution of natural gas for the purposes of light, heat and power.

CARNES CREEK CONSOLIDATED GOLD MINES, Limited.

Incorporated under the Laws of British Columbia. Authorized Capital, $1,000,000, in shares of $1.00.

Directors:

F. McCarty. C. H. Temple. Thos. Kilpatrick. Wm. Cowan.
I. T. Brewster.

Officers:

F. McCarty, President.
C. H. Temple, Vice-President. I. T. Brewster, Sec.-Treas. and Manager.

Head Office: Revelstoke, B.C.

Owns the Rosebury, Salisbury, Homestake, Imperial, Coronation, Jubilee, and Arsenic claims, on Carnes Creek; also the St. Peter at Illecillewaet; and the Clondyke and Consolidated claims on Downie Creek, Revelstoke Mining Division, British Columbia.

The work done, to date, has been principally on the Rosebury, and consists of 361 feet of tunnel and shaft. On the Roseberry (according to the *Mines Report* for 1898) there is a width of 50 feet well mineralized, containing good values in gold, which can probably be made to pay. Within this belt is a vein averaging about 5 feet, containing concentrated ore of much higher value. The vein has been drifted on for 130 feet on one level, and 75 feet at 100 feet lower. In the upper level there is exposed about 18 inches of ore, assaying well in gold, and the face of the lower drift is all in similar ore. The work on the adjoining claims proves that this mineral belt continues for several claims. This group has apparently a great future before it. The following is excerpted from the Second Annual Report to the shareholders, dated 14th March, 1899:—

"Up to February 15th we have sold altogether 157,870 shares, leaving 142,130 shares still in the treasury, out of the original 600,000.

The proprietary shares, which were originally pooled for eighteen months from the date of the organization of the Company, are now secured under contract, and cannot be sold at a lower figure than treasury shares.

Every effort has been made to cut down the expenses of management as much as possible, consistent with the careful protection of the Company's valuable interests, and we trust that the result of our efforts in this direction will give satisfaction.

Receipts and expenditure are as follows:—

CARNES CREEK CONSOLIDATED GOLD MINES—Continued.

RECEIPTS.

Receipts, year ending Feb. 15, 1898		$ 6,455 00
Year ending Feb. 15, 1899—		
28,770 treasury shares	$ 1,952 00	
Sundries	8 50	
Advance by Directors	4,191 40	
		6,151 90
Total receipts		$12,606 90

EXPENDITURE.

Expenditure, year ending Feb. 15, 1898		$ 6,455 00
Year ending Feb. 15, 1899—		
Roseberry mine (tunnels)	$ 1,808 69	
Assessment work	300 00	
Provincial Government, payment on land	115 00	
F.M. certificate and other Government fees	147 25	
Assaying and reporting	170 54	
Surveying	1,426 40	
Travelling expenses	204 75	
Miscellaneous expenses	85 10	
Interest and discount	208 05	
Management and office expenses	1,520 05	
Commissions	80 20	
Cash on hand	85 87	
		6,151 90
Total expenditure		$12,606 90

Since February 15th applications have been received for 100,000 shares. This will enable the Company to wipe out its indebtedness entirely, and also leave a satisfactory balance for the commencement of this season's work."

A cyanide plant is contemplated.

CASCADE DEVELOPMENT COMPANY, Limited.

Incorporated 5th February, 1897. Authorized Capital, $1,000,000.

Officers:

F. A. White, President.
W. G. Swallwell, Vice-President and Treasurer.
S. M. Baird, Secretary.

Head Office: Spokane, Wash.

Canadian Office: Cascade City, B.C.

CASCADE MINING SYNDICATE.

The properties of this company consist of eight claims, viz., Empress of India, Empress of China, Empress of Japan, Empress of Russia, Dominion, Gold Kettle, Jubilee and British Standard, situated in Fairview Camp, Osoyoos Mining Division, British Columbia.

The British Standard has a strong ledge 16 feet wide, carrying gold, silver, copper and iron pyrites. On all claims good surface showings are to be found, but as yet, little work has been done.

CASSIAR, CARIBOO AND KOOTENAY MINING CO., Limited.

Incorporated 10th March, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Directors:

H. Collins.	Jas. J. Johnston.	B. B. Johnston.
Jas R. Hamilton.	R. B. Ellis.	W. L. Newsome.

Head Office: Vancouver, B.C.

Formed to acquire the mineral claims known as Mountain Chief, Victoria, Commander, Golden Leaf, Dandy, and Nonpareil, all situated on Harrison Lake, in the District of New Westminster, British Columbia.

CASTLE MINING COMPANY, Limited.

Incorporated 8th December, 1898. Authorized Capital, $100,000, in shares of 10 cents.

Officers:

Henry W. Schloss, President.
Hon. T. M Daly, Q.C., Vice-President. Marcus W. Lettell, Treasurer.
George E. Townshend, Managing Director and Secretary.

Mines Office: George E. Townshend, Rossland, B.C., P. O. Box 76.

Formed to purchase the "Lost Horse," and "Great Divide" mineral claims, situated on the north fork of the Lardeau River, Trout Lake Mining Division of West Kootenay, British Columbia.

CASTLE MOUNTAIN MINING & DEVELOPMENT COMPANY, Limited.

Authorized Capital, $2,000,000, in shares of $1.00.

Directors:

Robert J. Bealey. J. L. G. Abbott. A. C. Galt.

Head Office: Rossland, B.C.

Formed to adopt and carry into effect, either with or without modification, an agreement dated the 28th day of November, 1896, made between Angus Cameron, D. A. Good and Samuel Swanson of the first part, and William Henry Cooper and Alexander Casimer Galt of the second part, relating to certain mineral claims, situate upon Castle Mountain, south-east of Christina Lake, known as the "I. X. L." "X. 10 U. 8," "Kaffir," and "Lake View."

CATARACT SYNDICATE, Limited.

Registered in England 29th November, 1897. Authorized Capital £5,000 in 5,000 shares of £1.

Directors:

R. K. Herdey. A. St. John. F. J. Abbott, jr.
Capt. P. L. Stevenson.

Head Offices: J. B. Harris-Burland, B.A., 20 Abchurch Lane, London, E.C.

Formed to adopt an agreement with P. L. Stevenson, and to acquire certain mining leases in Alberni, Vancouver Island, B.C.

CAYOOSE CREEK GOLD HILLS MINING AND MILLING CO., Limited.

Incorporated 27th February, 1897. Authorized Capital, $200,000, in shares of 25c.

J. Colcutt. C. Cattell. B. S. Parsons.

Head Office: J. Colcutt, Secretary, Vancouver, B.C.

CAYOOSH CREEK MINES, Limited.

Registered 27th February, 1897. Authorized Capital, $500,000, in shares of $1.00.

Officers:

J. M. Mackinnon, President. W. R. Robertson, Vice-President.
F. M. Robertson, Secretary-Treasurer.

Head Office: Vancouver, B.C.

Owns and is developing five mineral claims, known as the "British Columbia Group," Cayoosh Creek, District of Lillooet, B.C.

C. B. AND Q. MINING & DEVELOPMENT CO., Limited.

Authorized Capital, $1,000,000 in shares of $1.00.

Directors:

A. E. Denison. | Dr. R. Reddick. | M. Simpson.
C. O. Lalonde. | A. B. Mackenzie. | R. McGregor.
E. J. Moore.

Head Office: Rossland, B.C. A. E. Dennison, President.
M. Simpson, Secretary-Treasurer.

Owns a mineral claim near Rossland, B.C. At the last annual meeting the President reported:

"The property has been also thoroughly prospected and so far as surface indications show there are two leads, one with considerable iron and copper, the other principally quartz, this latter assaying a trace in gold, both leads being on the south side of Trail Creek and foot of Lake Mountain. The Company is perfectly free from debt and has as the Treasurer's report shows a credit balance of $246.20 in the Bank of British North America. There has been no sale of any of the 300,000 Treasury shares, which it is the intention of Directors to place on the market at the proper time. It was thought advisable at a general meeting held on the 25th of January last to re-pool all promoters stock indefinitely. There being at present no demand for our Treasury shares, no further work will be done until such time as we can sell same to advantage."

CENTRAL ONTARIO MINING COMPANY, Limited.

Incorporated March 1st, 1897. Authorized Capital, $49,000, in shares of $10.00 each.

Directors:

W. H. Robinson, Toronto, Ont. | W. E. Burns, Toronto, Ont.
H. W. Maw, Toronto, Ont. | G. W. Edgar, Toronto Junction, Ont.
H. Burley Smith, Yarmouth, Ont.

Head Office: Toronto.

Formed to carry on in all its branches the business of a mining, milling, reduction and development company.

CENTRAL RAWDON MINING CO., Limited.

Incorporated 1890. Capital, $120,000, in shares of $100 each, fully subscribed and paid.

Directors:

Clarence H. Dimock, President, Windsor, N.S.
Wm. O'Brien, Windsor, N.S. J. C. Geldert, Windsor, N.S.

Head Office: J. C. Geldert, Secretary, Windsor, Hants Co., N.S.

The company holds from 150 to 200 gold areas under lease from the Government of Nova Scotia. The mines, which are at Rawdon, are equipped with 15 stamp mill, hoisting and pumping gear and other machinery.

CENTRE STAR MINING COMPANY, Limited.

Incorporated 1898. Authorized Capital, $3,300,000, in shares of a par value of $1.00.

Directors:

George Gooderham. T. G. Blackstock. W. H. Beatty.
W. G. Gooderham. Albert E. Gooderham.

Head Office: E. J. Kingston, Secretary-Treasurer, 13 and 14 Gooderham Building, Toronto, Ont.

Mines Office: John B. Hastings, M.E., Rossland, B.C.

Owns and is developing the Centre Star and Idaho mineral claims, comprising an area of about forty acres at Trail Creek, British Columbia, (formerly owned and operated by the Centre Star Mining and Smelting Co., Limited).

CHANNE MINING COMPANY, Limited

Incorporated under the statutes of British Columbia, 30th August, 1896. Authorized Capital, $1,000,000, in shares of $1.00.

Officers:

P. Neville Smith, Vancouver, President.
Jos. Sheasgreen, Vice-President. A. C. Brydone Jack, Sec.

Directors:

Gordon Drysdale. A. C. Brydone-Jack. G. W. Willis.
Joseph Sheasgreen. P. Neville Smith.

Head Office: Inns of Court Building, Vancouver.

Owns and is developing the Bobbie Burns, Hetty Green, Daniel Webster, Poodle Dog, Black Swan, Seattle, Highlander, Estero, Joe Jefferson, Tom Moore, Pic-Nic, Nancy Hanks, R. E. Lee, Belmont and Olga mineral claims on Valdez, Thurlow and Channe Islands, and the adjoining mainland, British Columbia.

CHAPLEAU GOLD MINING SYNDICATE.

Head Office: 179 Palmerston Buildings, Old Broad Street, London, E.C.

Registered 1st May, 1899, by Jordon & Sons, Limited, 120 Chancery Lane, London, E.C., with a capital of £2,000, in £1 shares, to acquire, develop and turn to account any mines, claims and rights in British Columbia or elsewhere.

CHARLESTON MINING COMPANY, Limited.

Incorporated under British Columbia statutes 12th August, 1897. Authorized Capital, $150,000, in shares of a par value of $1.00.

Mine Office: J. E. Mitchell, Manager, Whitewater, B.C.

Owns and is developing the Charleston group of claims, Whitewater Camp, Slocan Mining Division, British Columbia.

CHEMICAL GOLD MINING CO. OF ONTARIO.

Incorporated 1898. Authorized Capital, $1,500,000, in shares of a par value of $1.00.

Officers:

Dr. J. Gustave, Laviolette, President.
R. W. Williams, Vice-President. John Morris, Secretary.
Louis R. Baridon, Treasurer.

Directors:

Dr. J. G. Laviolette.	John Morris.	L. R. Baridon.
C. A. Humphrey.	S. Laschance.	L. A. Bernard.

Head Office: John Morris, Secretary, 126 St. James St., Montreal.

Mines Office: C. A. Humphrey, Managing Director, Rat Portage, Ont.

Owns and is developing mining locations J.O. 113, S. 294, J.O. 133, comprising 116 acres on Gordon Lake, Lake of the Woods, Ontario.

CHETICAMP GOLD MINING CO., Limited

Authorized Capital, $200,000, in shares of a par value of $1.00.

Directors:

S. M. Brookfield. J. E. Leadley. George Perrier.
James Harrison and H. H. Harrison.

Officers:

S. M. Brookfield, President.
James Harrison, Secretary. H. H. Harrison, Manager.

Head Office: 54 Barrington St., Halifax, N.S.

Mine Office: Eastern Harbour, Cheticamp, C.B., J. L. J. Chipman, Mine Superintendent.

Controls 423 gold mining areas at Faribault Brook, Cheticamp, Inverness County, Cape Breton.

The Company began active operations on 28th April, 1898, on a mixture of sulphides, principally galena in large lenticular masses, in the pre-Cambrian slates of Faribault Brook. A good road has been built from the settlement nearly three miles distant, to the deposit. Shafts have been begun and a considerable quantity of ore has been extracted. A concentrating plant capable of treating fifty tons of ore a day, a forge, workshop, boarding-house and two or three miners' houses are being erected. At date of report about fifty men were employed, and the Company is said to have expended $30,000.

A suitable mining plant is to be installed during 1899.

CHIPPEWA GOLD MINING CO. OF ONTARIO, Limited.

Incorporated 1897. Authorized Capital, $1,000,000, in shares of $1.00 each.

Directors:

T. W. Gleason, Hartford, Conn. | B. R. Paine, Niagara Falls South, Ont.
D. D. Potter, St. Catharines, Ont. | J. B. O'Brian, Toronto, Ont.

Formed to carry on in all its branches the business of a mining, milling, reduction and development company.

CINNABAR MINING CO. OF BRITISH COLUMBIA, Limited.

Incorporated 10th July, 1895. Authorized Capital, $100,000.

Directors:

A. G. Ferguson. R. G. Tatlow. F. C. Innes.

Head Office: C. C. Bennett, Secretary, Vancouver, B.C.

The Company owns five claims on the north shore of Kamloops Lake, British Columbia, at a point about five miles north-east of Savonas, on the main line of the Canadian Pacific Ry.

No work was done on any of the claims of the Company in 1898. It is a matter of regret that these properties have been so long idle, the money spent on them having been lavished on the more unpromising locations, and in building of a furnace not suited for such ore, as is shown by the fact that quicksilver can be panned anywhere in the gulch below the furnace. This loss is only a fraction of that which took place in the air, as shown by the quicksilver in the flues. Mr. H. L. Lightner, the ex-superintendent of the Company's mines on Kamloops Lake, has lately made a thorough investigation of the mines and furnace, in the interests of the Cinnabar Company, with a view of making changes and commencing work at an early date on a firm business basis.

CITY OF PARIS GOLD MINING CO., Limited.

Registered 11th July, 1898. Authorized Capital, $1,200,000, in shares of a par value of $1.00.

Officers:

Jay P. Graves, President.
J. P. Whitney, Vice-Pres. George W. Wooster, Sec.-Treas.

CITY OF PARIS GOLD MINING CO.—Continued.

Directors:

J. P. Whitney. Jay P. Graves. F. H. Graves.
Henry White. George W. Wooster.

Head Office: Spokane, Wash.

Mine Office: City of Paris Mine, White's Camp, Kettle River District, B.C.

The Company owns and is developing the City of Paris and Lincoln mineral claims, Central Camp, Kettle River Mining Division, British Columbia. During 1898 a 10-drill air compressor was installed. A cross-cut tunnel is being run to cut, at a depth of about 300 feet, the two leads. This tunnel is now in 500 feet and will, it is expected, shortly intersect the *City of Paris* lead. The *Lincoln* vein is estimated to be about 100 feet further ahead. Should these leads be cut, and prove equal to expectations, a 1,600 foot tunnel will be run at a lower level, to cut them at 700 feet in depth.

CLAIMS SYNDICATE, Limited.

Offices: 15 and 16 George St., Mansion House, London, E.C.

This Syndicate was registered on the 10th February, 1898, to adopt an agreement with V. G. Levett, and to acquire mines, leases, claims, etc., in British Columbia.

The Authorized Capital is £21,000, in 7,000 shares of £3 each.

CLIMAX GOLD MINING CO., Limited.

Registered 6th May, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

C. D. Crites, Lima, Ohio, President.
D. F. Wetzel, Vice-President. | John H. Shaw, Secretary.
F. F. Leland, Treasurer. | W. A. Ritchie, Manager.

Head Office: Spokane, Wash., John H. Shaw, Secretary: N. A. Ritchie, Manager.

CANADIAN OFFICE:
Frank Hizer, Attorney, Rossland, B.C.

Owns the Climax Mineral Claim in the South Belt, Rossland District, British Columbia.

CLIMAX GOLD MINING CO. OF ONTARIO, Limited

Authorized Capital, $1,000,000, in shares of $1.00.

Directors:

Thos. Black. James A. Linton. George W. Walker.
Wm. Williams. Benjamin E. Chaffey.

Head Office: Rat Portage, Ont.

Formed to carry on mining in Ontario.

COAL HILL GOLD, SILVER & COPPER MINING CO., Limited.

Incorporated 5th March, 1897. Authorized Capital, $1,000,000, in shares of $1.00

Officers.

John J. Cook, President.
J. F. McIntosh, Treasurer. Col. O. T. Stone, Secretary.
W. H. Newman, Superintendent.

Head Office: Col. O. T. Stone, Kaslo, B.C.

Owns and is developing certain mineral claims at Kamloops and Ainsworth, British Columbia.

COBB GOLD MINING CO. OF ONTARIO, Limited.

Incorporated 1898. Authorized Capital, $1,500,000, in shares of $1.00 each.

Directors:

F. S. Cobb, Buffalo, N.Y. | P. H. Schabacker, Buffalo, N.Y.
S. Rosenau " " | H. C. Carter " "
C. W. Bingham" " | W. C. Paul " "

Formed to carry on in all its branches the operations of a mining, milling, reduction and development Company.

COLCLEUGH GOLD MINING CO. OF RAT PORTAGE, Limited.

Authorized Capital, $1,000,000, in shares of $1.00.

Directors:

Jno. M. Colcleugh. | George Drewry. | James M. Savage.
David L. Mather. | John McRae. | John Arbuthnot.

Head Office: Rat Portage, Ont.

Formed to carry on mining in the Province of British Columbia.

COLERAINE MINING COMPANY, Limited.

Incorporated 20th November, 1891. Authorized Capital, $120,000, in shares of a par value of $100.

Directors:

Hon. A. Desjardins.
Sir. L. Lacoste. W. E. Blumhart. G. N. Ducharme.
T. Bienvenu.

Head Office: G. N. Ducharme, General Manager, 7 Place d'Armes, Montreal.

Mines Office: Black Lake, Que.

Owns Blocks A and B of the Township of Coleraine, Province of Quebec, comprising some 5,000 acres, on which is found asbestos, chromite and other minerals. Portions of the company's lands are being worked for chromite under lease on royalty.

COLONIAL GOLD MINING COMPANY.

Mines Office: J. K. Pearson, Manager, Moose River, Caribou District, N.S.

This company is exploiting a number of gold areas at Moose River, Caribou District, Province of Nova Scotia. Equipped with 10 stamp battery, to be increaeed to 20, and a small mining plant

COLUMBIA AND ONTARIO GOLD MINING CO., Limited.

Incorporated 13th August, 1896. Authorized Capital, $750,000, in shares of a par value of $1.00.

Officers:

Jonathan White, President.
J. Y. Cole, Vice-President. R. R. Gamey, Secretary-Treasurer.
J. B. Miller, Manager.

Mines Office: J. B. Miller, Manager, Waneta, B.C.

Head Office: R. R. Gamey, Secretary-Treasurer, Gore Bay, Ont.

Owns and is developing the Golden Lion mineral claim, near Waneta, British Columbia.

COLUMBIA AND QUARTZ CREEK MINING AND DEVELOPMENT CO., Limited.

Incorporated under the Laws of British Columbia, 6th March, 1897. Authorized Capital, $500,000, in shares of a par value of $1.00.

Directors:

W. G. Neilson. Thomas Downie. W. B. Robertson.
W. G. Neilson.

Head Office: Beavermouth, B C.

COLUMBIA, CARIBOO GOLD MINING CO., Limited.

Authorized Capital, $1,000,000.

Directors:

Alex. McLean. James Anderson. Edward C. Black.
Thomas H. Fraser.

Registered Office: Trail, B.C.

Formed to purchase the Molly and Little Joe No. 2 mineral claims, situate at Cariboo Creek, in the Nakusp Mining Division, British Columbia.

COLUMBIA HYDRAULIC MINING CO., Limited

Registered 21st January, 1898. Authorized Capital, $100,000, in shares of $10.

Officers:

Wm. Trump, Pittsburg, Pa., President.
George Milligan, Chicago, Secretary.
George J. Atkins, Revelstoke, B.C., General Manager.

Registered Office: Revelstoke, B.C. J. D. Graham, Attorney.

Owns and is developing a property comprising 500 acres of hydraulic ground on Swift Creek, Big Bend, Columbia River, British Columbia.

COLUMBIA, KOOTENAY MINING CO., Limited.

Incorporated under British Columbia statutes 8th July, 1898. Authorized Capital, £500,000 stg., in shares of a par value of £1.

Head Office: 15 Austin Friars, London, England.

Canadian Office: Edwin Durant, Rossland, B.C.

Formed to carry on mining operations in British Columbia. (See also notice of British America Corporation, Limited).

COLUMBIA MINING CO. OF VICTORIA, Limited.

Incorporated 26th June, 1896. Authorized Capital, $100,000, in shares of a par value of $5.00.

Head Office: F. Burrell, Secretary-Treasurer, 45 Fort St., Victoria, B.C.

COMBINED GOLD MINES CO. OF ONTARIO. Limited.

Authorized Capital, $1,000,000, in shares of $1.00.

Directors:

Robert Humphreys, Lanes Mills, Pa. | W. H. Crocker, Ridgeway, Pa.
Edgar W. Smith, Grimsby, Ont. | M. P. Hatch, Buffalo, N.Y.
Frank S. Cobb, Buffalo, N.Y. | George Tait, Buffalo, N.Y.
Walter Hatten, Dubois, Pa.

Officers:

Robert Humphreys, President.
Edgar W. Smith, Vice-President. W. H. Croker, Treasurer.
Marion P. Hatch, Secretary.

Head Office: 1,005 Mutual Life Building, Buffalo, N.Y.

The property owned by the company consists of 557 acres, situated on Camp Bay, 45 miles south of Rat Portage, in the Lake of the Woods, Ont. Being developed.

COMMANDER CONSOLIDATED MINING AND SMELTING CO., Limited.

Incorporated 12th September, 1898. A thorized Capital, $150,000, in shares of a par value of 15 cents.

Directors:

W. J. Harris. John Houghton. W. S. Harris. W. W. D. Turner. John C. Williams.

CANADIAN OFFICE:

W. T. Wheeler, Secretary, Rossland, B.C. W. J. Harris, Managing Director.

Formed to ratify, enter and carry into effect, with or without modification, an agreement between the owners of the Commander mineral claim, situated in the Trail Creek Mining Division, British Columbia. Development work was commenced in August, 1898, and since then the shaft has been sunk 100 feet without encountering solid ore. The shaft, however, runs through mixed ore, and is down 280 feet, but at date of report no shipments of ore have been made. Equipped with 3 drill compressor, 60 h. p. boiler and other plant.

COMMONWEALTH MINING AND DEVELOPMENT CO., Limited.

Incorporated 22nd February, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Directors:

J. M. Robinson. Jas. Boothe. W. J. Robinson. W. V. Davis.

Head Office: J. M. Robinson, Peachland, B.C.

Formed to acquire and work the Ogontz, the Glenside, Tom Thumb, Jessie, Vera, Alberta, Brandon, Brooklin, and Brantford mineral claims, on Lardeau Creek, Lardeau Mining District, Province of British Columbia.

On the Glenside claim, three quartz and galena ledges can be traced from Lardeau Creek to a point about 1,000 feet distant, where they unite in one strong ledge which traverses the country for miles. At a point about 500 feet below where the three ledges unite, a tunnel is in a distance of 80 feet, on the centre small lead. It is the intention to follow this lead to the point of convergence of the three leads. An open cut is also run for 20 feet

COMMONWEALTH MINING CO.—Continued.

at the point of convergence of the leads, which, after cutting through the iron capping, exposed a vein of well mineralized quartz with stringers of galena, for some distance.

The Vera Group comprising the Vera, Alberta, and Jessie mineral claims, is situated on Surprise Creek, a tributary of the North Fork of the Lardeau. A cross-cut is run on the Vera 180 feet. Two ledges were traced on the surface, running parallel to one another and about 100 feet distant. In driving the cross-cut the first and small ledge was tapped, when in a distance of 120 feet, and found to be about four feet wide and composed of quartz, iron pyrites, and a small seam of galena. The cross-cut will be pushed through another 25 feet, when it is expected a larger vein will be encountered.

COMSTOCK GOLD MINING AND DEVELOPMENT CO., Limited.

Authorized Capital, $600,000, in shares of $1.00.

Directors:

Daniel O'Connor. Frank Cochran. O. A. Howland.
Frank G. Morley. Strachan Johnson.

Head Office: Toronto, Ont.

Formed to purchase Mining Location W. R. 40, registered in the Land Titles Office for the District of Nipissing, as parcel 264, and to pay therefor by allotting to the Vendors $400,000 of the stock of the company fully paid up and non-assessable.

COMSTOCK MAMMOTH QUARTZ MINING CO. OF FAIRVIEW, Limited.

Registered in British Columbia, 18th January, 1897. Authorized Capital, $750,000, in shares of a par value of 25 cents.

Mines Office: Fairview, B.C.

Head Office: 2 King Street West, Hamilton, Ont.

Owns and is developing the Comstock and Mammoth claims, Osoyoos District, British Columbia.

COMSTOCK MINES (BRITISH COLUMBIA) Limited.

Registered in British Columbia, September, 1897. Authorized Capital, £50,000, in shares of £1: 36,537 shares have been issued and are fully paid, 12,500 (vendors') being issued credited as fully paid.

Directors:

John Bell Irving, Chairman. J. J. J. Keswick. R. S. Corbett.

Head Office: W. H. Bartlett, 9 Fenchurch Ave., London, E.C.

Canadian Office: Duncan Bell Irving, Manager, Vancouver, B.C

Formed to acquire the Thompson Group of five claims, each about 1,500 feet, known as Silver Cup, Comstock, Silver Chief, Kentucky Girl, and Ruby Trust, situated on Funnel Creek, in the Slocan Mining Division of West Kootenay, British Columbia. The property was acquired from the Alliance Prospecting Syndicate of British Columbia, Limited, by R. A. Apenes, as Trustee for this Company. The purchase consideration was £25,000, payable £12,500 in cash, and £12,500 fully paid shares.

On the Comstock Claim 60 persons were employed in 1898. Development comprises 600 feet of raises, 700 feet of tunnelling. Concentrator at Funnel Creek under construction.

CONFEDERATION MINES DEVELOPMENT CORPORATION, Limited.

Authorized Capital, $2,500,000, in shares of a par value of $1.00.

Directors:

W. M. German, M.P.P., Welland, Ont., President.

Henry A. King, Toronto, Ont. | H. A. King, Rossland, B.C.
Thos. C. Dawson, St. Catherines, Ont. | H. H. Collier, St. Catherines, Ont.

Offices: J. Norris King, Sec.-Treas., 12 King St. East, Toronto; Harry A. King, Managing Director, Rossland, B.C.

Owns and is developing certain mineral claims in British Columbia and Ontario.

CONSOL GOLD MINING CO., Limited.

Incorporated under the Laws of British Columbia, 1896. Authorized Capital, $1,000,000.

Officers:

W. A. Ritchie, President.
Amos Young, Treas. C. L. Dalzell, Sec. F. A. Hume, Vice-President.

Head Office: W. A. Ritchie, Spokane, Wash.

Registered Office in Canada: Rossland, B.C., Frank Kizer, Attorney.

Owns the Consol Mineral Claim in the South Belt, Rossland District, British Columbia.

CONSOLIDATED ALBERNI GOLD MINING CO., Limited.

Incorporated 1896. Authorized Capital, $500,000.

Directors:

J. Dunsmuir. B. H. John. H. Saunders. D. Oppenheimer.
Thomas Dunn.

Head Office: Victoria, B.C.

Mines Office: Chas. Hayward, General Manager, Alberni, Vancouver Island, B.C.

Owns and operates the "Alberni," "Warspite," "Victoria," and "Chicago" Mineral Claims at Alberni, Vancouver Island, Province of British Columbia. Being opened up. Equipped with 8 stamp battery. Work done in 1898 on a small scale, was of an encouraging character. Several new discoveries being made.

THE CONSOLIDATED CARIBOO HYDRAULIC MINING CO., Limited.

Reconstructed 1897. Authorized Capital, $5,000,000, divided into 1,000,000 shares of $5.00 each. 800,000 issued to shareholders; 200,000 shares unissued.

Directors:

W. D. Matthews, Toronto, President.
Herbert C. Hammond, Toronto, Vice-President.
R. B. Angus, Montreal. | T. G. Shaughnessy, Montreal.
E. B. Osler, Toronto. | John Cassils, Montreal.
George F. Hartt, Montreal.

CON. CARIBOO HYDRAULIC MINING CO.—Continued.

Head Office: 305 Board of Trade Building, Toronto.
James L. Love, Secretary.

Mines Office: John B. Hobson, M.E., General Manager, Quesnelle Forks, Cariboo District, British Columbia.
L. F. Warner, M. E., Assistant Manager.

The Company's property is located in the heart of the Quesnelle River region, famous for its rich shallow placers and extensive deposits of high grade auriferous gravel. It is situated on the south side of the south fork of Quesnelle River, four miles east of the Town of Quesnelle Forks, four miles west of the outlet of the Great Quesnelle Lake, and about 200 miles north of Ashcroft on the Canadian Pacific Railway, via Cariboo waggon road to 150 Mile House, thence by Forks road 60 miles to Quesnelle Forks in Cariboo District, B.C. It comprises 53 mining leases, aggregating 2,458 acres of land, which cover the auriferous deposits of an ancient river for a distance of about 11 miles, commencing at Dancing Bill gulch, then south-easterly up the south bank of the South Fork River a distance of about two miles, thence westerly through the depression of the Little and Long Lake valleys a distance of about nine miles, to confluence of Morehead Creek with the main Quesnelle River. The depth of the auriferous deposits from surface to bed of channel, varies from 400 to 600 feet, and the quantity of auriferous deposits included in the Company's property is estimated at 350 millions of cubic yards.

The water is delivered through a system of canals 7 feet by 13 feet by 3 feet deep, 21 miles in length from the mine to the source of the water supply at Six Mile Creek, the outlet of Polleys and Bootjack Lakes, which have a storage area of about 1,564 acres, and have been converted into storage reservoirs by the construction of substantial dams 8 feet high, across their outlets. This supply is augmented by the water of Dancing Bill gulch, and numerous streams on the line of the main canal, which insures a supply varying from 2,000 to 3,000 miner's inches of water throughout seasons of average rainfall.

The water is delivered at the mine, on the floor of the present excavations, under a head of 300 feet, and 400 feet at bedrock or bottom of the channel.

The mine is equipped with a portable hydraulic plant, consisting of four lines of 22 inch, and one line of 18 inch steel pipes, aggregating about 6,000 feet in length, also six No. 8 hydraulic giants, having nozzles varying from 5 to 10 inches in diameter.

During the summer of 1898 an earth dam 480 feet long and 50 feet high was placed across the outlet of Morehead Lake, for the purpose of making a

CON. CARIBOO HYDRAULIC MINING CO.—Continued.

reservoir having an area of 600 acres and a storage capacity of 550 million cubic feet, equal to 254,559, miner's inches of water.

A canal 10 miles long, having a capacity for delivering 2,500 miner's inches of water at the mines was also constructed during the season of 1898, after which time it is estimated that the mines can be operated full time for six or seven months during the season.

The gold saving appliances consist of a system of sluices 3 by 5 feet in pit No. 1, and 3 by 6 feet in pit No. 2, both paved with improved longitudinal iron riffles.

Undercurrents intended for the recovery of fine gold will be placed below the sluices as soon as the mine is sufficiently opened to accommodate their installation.

During the progress of the work of equipment and the opening of the two working pits in the top gravel at Dancing Bill gulch, the sum of $332,611 in gold was recovered from about six acres of top gravel, averaging about 250 feet in depth. The bottom bench of gravel underlying pits Nos. 1 and 2, about 150 feet deep to bedrock, was opened during the season of 1898, and it is estimated to yield over 50 cents per cubic yard.

Two working pits are now opened in the upper gravels, banks of which are about 300 feet in height. The floor of the working pits is about 100 feet above the bottom of the channel. This lower bench of high grade gravel will be opened and worked as soon as the upper workings are carried forward a sufficient distance to leave the lower workings safe from the danger of caves from the upper workings.

During the year ended 31st December, 1898, the Morehead dam and ditch were completed at a cost of $118,458.68, which is $6,541.32 less than the estimated cost. The Company also acquired the mining leases and additional water rights, as outlined in the Report presented at the meeting held in January, 1898, at a cost of $20,000.

ASSETS.

Mines, Mining Leases, Water Rights, Canals, Reservoirs, Hydraulic Plant and Appliances, Buildings, Machinery	$3,894,558 38	
Mining Leases acquired during season	20,000 00	
		$3,914,558 38
INVENTORY. (See Manager's Report).		
Provisions, Mining Supplies, Explosives	37,754 31	
Lumber, Saw-logs and Sluice Blocks	9,059 67	
Tools and Implements	6,646 72	
Blacksmith's stores	1,614 12	
Horses and Mules	1,675 00	
Waggons and Harness	1,781 25	
Quicksilver	2,685 80	
		61,216 87

CON. CARIBOO HYDRAULIC MINING CO.—Continued.

Cash on hand, Mine Office		$ 1,000 00
Personal Accounts receivable		5,176 10
Balance brought forward from Operating Acc't		2,527 17
PERMANENT IMPROVEMENTS—		
Morehead Ditch and Dam	118,458 68	
Drain Tunnel	3,533 42	
Installation of Steel Riffles	11,600 01	
Lands and Leases	1,322 00	
Equipment of Lower Bench	7,424 01	
		142,338 12
		$4,126,816 64

LIABILITIES.

Capital Authorized	$5,000,000 00	
" Issued		$4,000,000 00
Accounts payable		24,917 07
Bills payable		50,000 00
Bank of Montreal		51,899 57
		$4,126,816 64

Examined and found correct.

TORONTO, 1st February, 1899. W. S. ANDREWS, Auditor.

OPERATING ACCOUNT, SEASON 1898.

To operating expenses as per Mines Acc't	$96,506 68	
" Incorporation License	1,687 50	
" Expenses reorganization	6,421 31	
" Interest Account	2,143 86	
" Head Office expense	909 18	
		$107,668 53
By Bullion recovered	105,141 36	
" Balance	2,527 17	
		$107,668 53

MANAGER'S REPORT, 1898.

(DECEMBER 31ST, 1898.)

As the Manager of the Consolidated Cariboo Hydraulic Mining Company, Limited, I hand you this, my annual report for the season of 1898, which reviews briefly the work performed in connection with the equipment, opening and operation of the Company's mine.

The work of cleaning the canals of accumulations of ice was commenced in the latter part of March and completed on April 10th.

CON. CARIBOO HYDRAULIC MINING CO.—Continued.

The catchment water was pooled in the South Fork reservoir and washing gravel commenced on the 14th of April, in pit No. 1. Washing was also commenced in Pit No. 2, to remove the vast accumulations of bowlders and tailings deposited by the early Chinese miners in Dancing Bill Gulch and on the worked out ground fronting the lower or bedrock bench, also the slide and other waste material from the north-west rim, the complete removal of which was necessary to make possible the installation of the permanent sluices and gold saving appliances.

A run of 70 days 19 hours was made in Pit No. 1, during which time 143,475 miner's inches of water was used to wash out 350,000 cubic yards of top gravel and clay, which produced 4,403½ ounces of gold, valued at $75,166.16, an average yield of 21 cents per cubic yard, an improvement of about 3⅛ cents on the average for 1897.

A run of 40 days 15 hours was made in Pit No. 2, during which time 89,989.2 miner's inches of water was used in the removal of 436,200 cubic yards of tailings, bowlders and other waste material, which produced 351½ ounces of gold, valued at $6,021.70.

The removal of this waste consumed about one-third of the season's water supply, added materially to the cost of the season's operations, and caused a proportionate reduction of the season's product.

The installation of the permanent sluice plant and gold saving appliance in the bed of Dancing Bill Gulch was commenced on July 1st and completed August 1st. This plant consists of two lines of sluices 7 feet wide by 3 feet deep, each line 240 feet long, both paved with improved steel riffles, which are the best in use for the recovery of fine gold.

After the installation of the plant, the work of opening the lower bench was commenced. A run of 16 days and 3½ hours was made, during which time 31,416.4 miner's inches of water was used in the removal of 35,670 cubic yards of gravel and slide rock from the bottom bench, which produced 1,389 ounces of gold, valued at $23,953.50, an average yield of 67.15 cents per cubic yard, which is 18.15 cents better than the average produced from the test pits sunk and prospected during the season of 1896 and 1897.

The opening work was attended with many delays and difficulties, on account of the immense slide of bedrock found underlying the old workings near Prospect Shaft No. 1, the immense deposit of bowlders found in the old workings on the east side of the channel under the main sluice from Pit No. 1, and the hardness of the underlying bedrock in which the working sluice cuts had to be sunk and advanced to facilitate the removal of the gravel to the sluices. During the progress of the run two bedrock cuts were excavated for a distance of 300 feet each and lowered in the rock from 2 to 60 feet in depth.

CON. CARIBOO HYDRAULIC MINING CO.—Continued.

Then the workings were carried to a point under the old main sluice from Pit No. 2, and the bedrock uncovered under the deposit of slide rock, a rich stratum of gravel containing coarse gold was encountered and appears to continue up the channel on the flat rock on the east side. The gold recovered is heavier than any found in the upper workings, one nugget weighing 6¾ ounces and valued at $115.00.

WATER SUPPLY.

The water supply during the season was somewhat in excess of that in 1897. This was to be expected, as the record of rain and snow fall exceeds that of 1897.

	Inches.
Rain and snow fall from Nov. 1st, 1896 to Nov. 1st, 1897.	25.56
" " " Nov. 1st, 1897 to Nov. 1st, 1898.	28.57
Making the precipitation for 1898, in excess of that of 1897	3.01

Two inches of the extra precipitation occurred during winter, and should have caused the water in the storage reservoirs at Polleys and Bootjack Lakes to rise higher than it did in 1897.

The winter snow passed off under influence of warm days and nights of low temperature, at times considerably below freezing point, conditions most unfavorable for making water, and explains the cause of the failure of the water to rise in the reservoirs as high as expected.

On the other hand, the summer rains were in excess of the previous season. They came in protracted storms of several days' duration, which are favorable for increasing the flow, and much more water finds its way into the reservoirs and canals.

	Miner's Inches.
Quantity of water used in 1897	223,416
Theoretical quantity expected for 1898	250,212
Actual water used in 1898, per Mine Reports	264,880.9
Excess of actual over theoretical	14,668.9

About 7⅓ days' water for 2,000 miner's inches.

The Morehead Dam and Canal are now completed, at a cost of $118,458.68, this amount being $6,541.32 under the estimates.

The Mine may, in future, depend upon double the supply of water afforded by the South Fork and Dancing Bill water system, and will insure a steady supply throughout the season even under more unfavourable conditions than have occurred since the commencement of the equipment of the property.

The Morehead system is not complete, however, without a small pooling reservoir to collect and conserve the early spring and late water when not delivered in the quantity required to operate the Mine, and to conserve the water flowing down the canals at times when the head gates are ordered closed down.

CON. CARIBOO HYDRAULIC MINING CO —Continued.

The necessary pooling reservoir can be made in the valley above the main South Fork canal, a short distance above the South Fork reservoir, which will hereafter be used for pooling water for use in the South Fork Pit No. 3.

Such a reservoir can be made by the construction of an earth dam containing about 4,500 cubic yards of earth, and can be constructed, together with the necessary gates, at a cost of $5,000.

This pooling reservoir will materially simplify the problem of the economical use of water in the Mine.

LANDS AND LEASES.

The twenty-five Placer Mining Leases purchased during the season are situated on Long Lake Creek, Little Lake Creek and Morehead Creek.

The area of the leases is 2,112 $\frac{8}{10}$ acres. These leases cover the auriferous deposits of an ancient river channel of stupendous proportions, for a distance of 42,530 feet, about eight miles, commencing at the old Cariboo Company's line west of the South Fork reservoir, and extending down to the confluence of Morehead Creek with the Quesnelle River.

Appurtenant to the above described property, are valuable water and reservoir rights, one for 1,000 inches of water from Morehead Creek, and 1,000 inches of water from Little Lake Creek, together with the right to use said Little Lake for a storage reservoir. These additional water rights increase the Company's water supply to 7,000 miner's inches.

The acquirement of this most valuable property adds at least four hundred millions of cubic yards of auriferous gravel to the Company's holding, making the total quantity of auriferous gravel available for future washing, amount to about four hundred and sixty-three millions of cubic yards.

OPERATING THE MINE AND OPENING THE LOWER BRANCH.

PIT NO. 1.

Commencing April 19th, and ending November 1st, 1898 :—

WATER USED.			HOW USED.
Days.	Hours.	Qty. Miner's Inches.	
8	11½	19,717.6	Clearing out ice and frozen clay.
40	3	80,257.8	Washing top gravel and clay.
17	9	34,749.9	" " " "
4	9	8,750.0	" " " "
70	19	143,475.3	

CON. CARIBOO HYDRAULIC MINING CO—Continued.

Summary of Run in Top Gravel Pit No. 1.

Time occupied in washing	70 days, 19 hours.	
Quantity of water used	143,475	miner's inches.
Quantity of material removed—		
Ice and frozen clay	42,300	cubic yards.
Clay from top, west side of Pit	106,000	" "
Top gravel and clay, east side	201,700	" "
Total quantity material washed	350,000	" "
Duty of water per miner's inch	2 44	" "
Gold recovered	4,403½	ounces.
Value	$75,166.16.	
Average yield per cubic yard	21	cents.
Product per day of 24 hours	$ 1,058.67.	

PIT NO. 2.

Commencing April 14th, and ending November 1st, 1898:—

Removal of accumulations of Chinese bowlders and tailings and other waste material, preparatory to installation of gold saving appliances and opening of lower or bedrock bench.

WATER USED.			HOW USED.
Days.	Hours.	Qty. Miner's Inches.	
4	11½	8,958.5	Clearing out ice and frozen clay.
23	4	55,072.5	" " earth, top waste and slide rock from N.W. rim, and accumulation of bowlders, front of Lower Bench.
2	20	5,708.2	Clearing out accumulation of bowlders and tailings from bed of Dancing Bill Gulch.
6	9½	12,750.0	Clearing Chinese bowlders from front of Lower Bench.
3	18	7 500.0	Clearing Chinese bowlders from Lower Bench.
40	15	89,989.2	

CON CARIBOO HYDRAULIC MINING CO.—Continued.

Summary of Clearing Out Work done in Pit No. 2.

Time occupied in washing	40 days, 15 hours.
Quantity of water used	89,989.2 miner's inches.
Quantity of material removed—	
Ice and frozen clay and gravel	31,200 cubic yards.
Accumulation of tailings and bowlders	72,000 "
Top waste earth and slide rock from N.W. rim	333,000 "
Total waste removed	436,200 "
Duty of water per miner's inch	4 84 "
Gold recovered	351½ ounces.
Value	$6,021.70
Yield per cubic yard	.01 37-100 cents.
Product per day of 24 hours	$146.87

PIT NO. 2 LOWER OR BEDROCK BENCH.

Commencing August 1st, and ending November 1st, 1898 :—

WATER USED.			HOW USED.
Days.	Hours.	Qty. Miner's Inches.	
11	14½	23,166.6	Washing bottom gravel and lowering cuts.
4	13	8,249.8	Washing bottom gravel and lowering cuts.
16	3½	31,416.4	

Summary of Opening Run on Lower Bench.

Time occupied in washing	16 days, 3½ hours.
Quantity of water used	31,416.4 miner's inches.
Quantity of gravel washed	35,670 cubic yards.
Duty of water per miner's inch	1 1-10 cubic yards.
Gold recovered	1,389 ounces.
Value	$23,953.50.
Yield per cubic yard	0.67 15-100 cents.
Product per day of 24 hours	$1,483.58.

An immense bedrock slide encountered near Prospect Shaft No. 1 interfered materially with the progress of washing gravel, and reduced the duty of the water for the washing done on the lower bench.

CON. CARIBOO HYDRAULIC MINING CO.—Continued.

SUMMARY OF THE SEASON'S WORK.

Total time occupied in washing	128 days, 16½ hours.
Total quantity of water used	264,880.9 miner's inches.
Total quantity of pay gravel washed	385,670 cubic yards.
Total quantity of Chinese tailings and other waste material removed	436,200 cubic yards.
Gold product for season	6,144 ounces.
Value of gold recovered	$105,141.36.

The receipts and expenditure attending the equipment, opening and operation of the Company's mine for the season, will be found distributed in detail in the following statement:—

EXPENDITURES FOR SEASON OF 1898.

Permanent Improvements—		
Drain tunnel	$ 3,533 42	
Lands and leases	1,322 00	
Installation of steel riffles	11,600 01	
Equipment of lower bench	7,424 01	
		$ 23,879 44
MOREHEAD DAM AND DITCH.		
Dam—		
Clearing dam foundation	$ 327 36	
Excavating dam foundation	2,852 51	
Making dam embankment	14,866 71	
Facing inner slope with rock	3,918 44	
Trunk conduit and gate tower	15,608 12	
		$37,573 14
Ditch—		
Right of way clearing	$ 1,471 23	
Excavation of ditch	46,571 29	
Jaw-bone pipe line	2,954 42	
Flumes	12,378 34	
Waste gates	1,002 70	
Engineering, walling and incidentals	5,448 28	
		$69,826 26
Special—		
Clearing reservoir site	$ 7,321 14	
Changing Government roads	1,133 60	
Telephone	1,174 55	
Camp buildings	1,429 99	
		$11,059 28
Total cost dam and ditch		$118,458 68

CON. CARIBOO HYDRAULIC MINING CO.—Continued.

Total cost of Permanent Improvements			$142,338 12
Operating Expenses—			
Lands and leases		$ 432 14	
Mining—explosives	$20,089 90		
Labor, etc	31,766 33		
		51,856 23	
South Fork Ditch maintenance		5,963 65	
Sluice maintenance		7,047 57	
Portable hydraulic plant maintenance		2,402 15	
Mine light maintenance		930 90	
Camp maintenance		1,244 35	
Buildings maintenance		1,088 15	
Melting plant maintenance		75	
Wagons and harness maintenance		187 95	
Telephone maintenance		49 50	
Roads and trails maintenance		364 85	
Insurance account		663 35	
Transportation of miners, etc		4,983 56	
Stable expense		3,199 92	
Bullion expense, *Government tax and transportation*		3,382 81	
Postage and telegraph		328 86	
Mine office expenses		2,504 74	
Incidental expenses		456 15	
Stationery and printing		190 52	
Management		5,161 50	
Wagons and harness account, *loss on pack train rigging, sold*		1,026 75	
Horses and mules account, *loss on pack train, sold*		1,443 80	
Tools and implements, *depreciation for season*		668 93	
Quicksilver account, *loss for season*		927 60	
Total operating expenses for season			$96,506 68

Summary—

Total Permanent Improvements for season	$142 338 12	
Total Operating Expenses for season	96,506 68	
Total Expenditure for season		$238,844 80

CON. CARIBOO HYDRAULIC MINING CO.—Continued.

Receipts for Season—

Gold recovered	$105,141 36

Inventory—

There is on hand at the mine, as per inventory taken October 31st, 1898, as follows :—

Miscellaneous provisions and mining stores	$32,795 43	
Explosives	4,958 88	
Total stores		$ 37,754 31
Quicksilver, 56 flasks	$ 2,685 80	
Blacksmiths' stores	1,614 12	
Lumber, logs and sluice blocks	9,059 67	
Live stock	1,675 00	
Wagons and harness	1,781 25	
Tools and implements	6,646 72	
		$ 23,462 56
Total		$ 61,216 87

WATER SUPPLY SYSTEM.

The water supply system, as now completed, consists of the

	Length, miles.	Capacity, miner's inches.
Main South Fork Canal from Polleys Lake reservoir to the mine	19	3,000
Canal from Drop Gulch to South Fork reservoir	1	3,000
Canal from South Fork reservoir to Dancing Bill Gulch	1	3,500
Ditch from Dancing Bill Gulch to South Fork reservoir	1	1,000
Old South Fork Ditch from South Fork reservoir to French Bar Bluff	1	1,000
Morehead Canal, from Morehead Lake reservoir to its junction with South Fork Canal	10	2,500
Total length of canals and ditches completed	33 miles.	

All the above named canals and ditches are in good condition, excepting the Old South Fork Ditch from South Fork reservoir to French Bar Bluff. This ditch will be improved, and used hereafter for the delivery of surplus water for use in the South Fork Pit.

CONDITION OF THE MINE.

Since the opening of the lower bench in Pit No. 2 at Dancing Bill Gulch, the mine may be considered in good condition for the use of the increased water supply from Morehead Lake.

CON. CARIBOO HYDRAULIC MINING CO.—Continued.

The installation of the hydraulic plant in the South Fork Pit, which will be called Pit No. 3, is now under way, and will be completed early next spring ready for the use of the spring freshet and any surplus water that cannot be profitably used in Pits Nos. 1 and 2.

The heavy body of indurated clay overlying the gravels on the west side of Pit No. 1 is rapidly decreasing as the workings are advanced easterly up the channel.

There is a marked improvement in the average yield of the top gravel in Pit No. 1 as the workings are advanced up the channel.

The character and grade of the gravel in the lower bench is as good as expected and is likely to improve as the workings are carried up the channel above the old Chinese workings.

When the improved condition of the working pits, the high grade of the gravel and the increased water supply is considered, it is reasonable to expect that the product should double that of any season since the opening of the hydraulic excavations.

The sum of $17,000 should be appropriated to purchase hydraulic plant and appliances required in addition to that now in stores, to complete the equipment of the South Fork Pit, construct a pooling reservoir for the Morehead system and to complete the Bullion Retorting and Melting Plant. When this work is completed, the property will be fully equipped for the economical use of the increased water supply and the successful and profitable operation of the Company's mines at Dancing Bill Gulch and Black Jack Gulch.

With the additional force required to handle and utilize the increased water supply and perform the extra work attending the opening of South Fork Pit, it is expected that the operating expenses for the ensuing season will be increased, but will probably not exceed $108,000.00."

CONSOLIDATED GOLD FIELDS DEVELOPMENT CO. OF ONTARIO, Limited.

Authorized Capital, $1,000,000, in shares of $1.00

Directors :

C. H. Marsh. F. G. Morley. D. A. McDonald. V. Bedford.
A. H. Macdonald. T. Howarth.

Head Office : Toronto, Ont.

Formed to acquire and work mines and mineral claims in the Province of Ontario.

CONSOLIDATED GOLD FIELDS OF BRITISH NORTH AMERICA, Limited.

Offices : 13, Austin Friars, London, E.C.

Registered 17th February, 1897, to search for, prospect, &c., mines and mineral claims. The Authorized Capital is £100, in shares of £1; seven shares issued.

CONSOLIDATED GOLD LAKE MINING CO., Limited.

Authorized Capital, $400,000.

Directors :

J. B. Neilly. W. A. Temple. James Reeves.
H. C. Walker. John C. Schappett.

Controls a property comprising 305 gold areas at Gold Lake, Halifax County, Nova Scotia.

CONSOLIDATED GOLD MINING CO., Limited

Incorporated 1896. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Directors :

R. Hunter. | J. H. Adams. | Duncan Campbell.
C. Grant. | H. M. Lister. | C. M. Carpenter.
all of Rossland, B.C.

Formed to purchase the "B. C." mineral claim, Trail Mining District, British Columbia.

CONSOLIDATED GOODENOUGH AND RUBY GOLD MINING CO., Limited.

Authorized Capital, $1,500,000, in shares of a par value of $1.00.

Directors :

G. E. Corbould. C. G. Major. R. Jardine.

Head Office : New Westminster, B.C.

Formed to acquire the "Goodenough" and "Ruby" Fraction mineral claims, situated on Morning Mountain, and adjoining the "Athabasca" mine, Nelson Mining District, British Columbia.

CONSOLIDATED SABLE CREEK MINING CO., Limited.

Incorporated under the Laws of British Columbia, 19th August, 1896. Authorized Capital, $1,500,000, in shares of a par value of $1.00.

Directors:

G. D. Scott. Fred. Cope. R. E. McKechnie.

Head Office: A. J. Scott, Secretary, Vancouver, B.C.

Owns and is developing four mineral claims on Sable Creek, Lardeau Mining District, British Columbia.

CONSOLIDATED SEVEN MINES CO., Limited.

Authorized Capital, $1,000,000, in shares of $1.

Directors:

Richard F. Kelly. W. H. Jeffrey. James S. Riley.
John Lane. Smith Curtis.

Head Office: A. J. McMillan, Rossland, B.C.

Formed to acquire the Copper Bar, Magna Charta, Single Standard, Numeration, Grace Darling, Magician and Open Sesame claims, in the Trail Mining District, British Columbia.

COPPER BELLE GOLD MINING CO., Limited,

Incorporated in British Columbia, 1896. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Directors:

N. Olsen. Edward Baillie. C. F. Sears. F. D. Sears.
all of Rossland, B.C.
James Haddock. J. H. Leech. John Russell. John Thompson.
of Winnipeg.

Head Office: Rossland, B.C.

Formed to acquire the claims recorded as South Falls and Copper Belle mining claims, situated in the Trail Creek Mining Division British Columbia.

COPPER CO. OF BRITISH COLUMBIA, Limited.

Registered May 16, by Renshaw, Kekewich & Co., 2 Suffolk Lane, E.C., with a capital of £100,000, in £1 shares. Object, to adopt and carry into effect an agreement bearing date May 16, and made between P. H. Stevens, of the one part, for the acquisition of the copper mines known as the Lancaster, Simcoe and Toronto Fraction, situate in the District of East Kootenay, B.C.

COPPER GIANT GOLD MINING CO., Limited.

Registered in British Columbia 4th January, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

H. B. Smith, President.

R. J. Bealey, Vice-President. W. G. Merryweather, Secretary-Treasurer.

Head Office: Rossland, B.C.

Owns and is developing the Copper Giant, Blue Copper and Grey Copper mineral claims, on Lookout Mountain, Trail District, British Columbia.

COPPER KING MINING CO., Limited.

Authorized Capital, $150,000, in shares of a par value of $1.00.

Directors:

H. O. Walker. R. D. Robinson. H. L. Bingham.
A. K. Keefer. H. C. Farnum.

Head Office: Windsor, Ont.

Mines Office: H. C. Farnum, Madoc, Ont.

Owns and is developing three mineral properties comprising 450 acres in the townships of Madoc and Mayo, Hastings County, Ontario.

COPPER MINES, Limited.

Incorporated under the Laws of British Columbia, 14th February, 1899. Authorized Capital, $125,000, in shares of a par value of $1.00.

Head Office: Vancouver, B.C.

Formed to purchase the "Converdant," "Goldfilled," "The Norma," and "Earnscliffe," claims, all situate in the Coal Hill Camp, Kamloops, and the "Innez," and "Rodgers," both on Harrison Lake, British Columbia; and to adopt and carry into effect, with or without modification, certain agreements which have already been prepared and are expressed to be made between William Hugget and Ernest John Deacon, of the one part, and T. J. Smith, on behalf of the Company, of the other part, and which agreements are to be signed immediately after the incorporation of the Company; and also to adopt and carry into effect any and all agreements that may be made in connection with the said claims, or any of them, between any of the parties therein interested.

COPPER MONARCH MINING CO., Limited.

Incorporated in British Columbia, 17th April, 1899. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Registered Office: Rossland, B.C.

Formed to carry on mining operations in British Columbia.

COPPER MOUNTAIN MINES, Limited.

Authorized Capital, $500,000, in shares of $1.00.

Directors:

John A. Fraser. Thos. H. Tracey. Geo. W. Weekes.

Head Office: Thos. H. Tracey, C.E., Vancouver, B.C.

Formed to acquire four mineral claims situated on Jervis Inlet, near Vancouver Bay, in the District of New Westminster, British Columbia, and known as the 'Columbia,' the 'Colorado,' the 'Portland' and the 'Eldorado.'

COPPER QUEEN GOLD MINING AND DEVELOPMENT CO., Limited.

Incorporated 1896. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Directors:

John A. McGillivray, Q.C., President.
Alfred Ansley, Vice-President. H. C. McLean, Sec.-Treas.

Head Office: H. C. McLean, Toronto.

Registered Office: Rossland, B.C.: Messrs. Macdonald, Clute & Cronyn, Agents.

Formed to acquire and work the Copper Queen and Africa mineral claims, Trail Mining District, Province of British Columbia.

CORDOVA EXPLORATION CO., Limited.

Registered 17th February, 1897. Authorized Capital, £30,000, in 3,000 shares of £10.

Directors:

Sir A. Noble, K.C.B.	W. D. Cruddas.	J. Hall.
A. Fellows.	W. D. Delprat.	W. Scott.

Head Office: Wm. M. Brown, Bede Buildings, Hebburn-on-Tyne, England.

CANADIAN OFFICE:

D. G. Kerr, Superintendent, Belmont Gold Mine, Marmora, Ont.

Owns and operates a mineral property comprising about 1,000 acres in the Township of Marmora, Hastings County, and in the Township of Belmont, Peterborough County, Province of Ontario. Vein worked averages 5 feet; opened by three shafts, down, at report, respectively, No. 1, 140 feet; No. 2, 40 feet, and No. 3, 25 feet. Sixty persons employed. The mining and milling plant comprises:

Boilers—Two return tubular, 70 h.p. and 25 h.p.

Rock drills—Two Peerless.

Hoisting engines—Two Lidgerwood, stroke 8 x 12 in. and 6 x 12 in., single drum 40 x 30.

Pumps—Four Northey, having a capacity of 200, 42, 22 and 15 gallons p m., respectively.

Rock breaker—One Blake, 10 x 13 in.

Mill—(steam) 10 stamps, 850 lbs., drop 85 p.m., challenge feeders, two Frue vanners, etc.

CORINTH MINES, Limited.

Registered 2nd April 1897. Authorized Capital, £100,000, in shares of £1.

Directors :

A. C. M. Innes. R. de la Bere. J. D. Patulla.

Head Office: J. W. Clark, Secretary, 16 George Street, Mansion House, London, E.C., England.

CANADIAN OFFICE :

MacIver Campbell, and E. E. Evans, Vancouver.

Formed to carry into effect an agreement with M. M. Campbell, and to acquire certain mining claims, covering 82¼ acres, in the Slocan District, British Columbia. The claims owned are the Corinth, Miantanomah, and Bloomer Fraction. The following is excerpted from the report to the shareholders presented on 16th December, 1898, covering the year ended 30th September :—

" Before commencing active operations on the Company's properties, it was considered desirable to obtain expert opinion as to the lines on which development should be pursued, in order that the best and most economical manner of opening up the mine might be adopted. The services of Mr. C. G. Griffiths were accordingly engaged, and in due course he examined and reported on the properties. Your Directors regret to say that this report did not bear out Mr. Callahan's statements with regard to the extent and value of the development of the properties. In his report Mr. Griffiths recommended, as the best course to adopt, the continuation, for some considerable distance, of the Low Level Tunnel No. 3, which had already been commenced and driven some 250 feet, with the view of ascertaining the direction and value at depth of the vein which had been exposed at the surface ; also that work done on the higher Levels Nos. 1 and 2 should be stopped pending the results of the driving at the No. 3 Tunnel.

" The Board and the Managers not feeling entirely satisfied with this report, the services of another expert engineer, Mr. Carl Hand, were engaged. This gentleman duly examined the mine, and the effect of his report was to corroborate the conclusions arrived at by Mr. Griffiths, including the recommendation in regard to further driving at No. 3 Tunnel.

" Following these recommendations, the No. 3 Tunnel was accordingly driven to a distance of 800 feet, at which point, the vein not having been encountered, operations were stopped, and the mine closed down until a further report could be obtained regarding the prospects.

" Arrangements were then made for a thorough examination and report on the mine by Mr. J. D. Kendall, the Managing Partner in British Columbia

CORINTH MINES—Continued.

of the well-known firm of Messrs. Bewick, Moreing & Co. This report was received early in August of the present year, and, on Mr. Kendall's suggestion, operations were resumed at the No. 3 Tunnel, while at the same time a thorough suface examination by means of trenching and sluicing was undertaken between Tunnels Nos. 1 and 2.

"Your Directors are glad to state that a vein has been struck in a cross-cut 912 feet in No. 3 Tunnel. The vein is strong and well-defined, and fully 9 feet in width. It contains no galena, but the Board are pleased to say it is reported to be of a distinctly satisfactory nature. Mr. Kendall advises drifting in both directions, and instructions to give effect to this have been cabled to the Managers.

"The result of the surface work has been to disclose in each of the open-cuts made a narrow vein of about 8 ins. of ore (assaying 168 ozs. of silver and 73 per cent. of lead to the ton); and it is the intention of your Board to follow this down by means of a prospecting shaft, with the idea of ascertaining its direction, and also to thoroughly prospect your whole property by means of trenches, open-cuts and trial-borings, under the direction of a competent engineer. It is, however, too late to commence this work during the present season, but it will be put in hand at the earliest moment in the coming year, when it is hoped that the dip of the ledge, and its effect on the work at the Low Level drive, may be satisfactorily ascertained.

"The work done on the mine has, in the opinion of your Board, been economically carried out; and the Managers (Messrs. MacIver Campbell and Ernest E. Evans) have devoted a considerable amount of time and attention in the endeavor to put matters on a more satisfactory footing."

BALANCE SHEET, 30TH SEPTEMBER, 1898.

Dr.

Capital Authorized—			
£100,000 in 100,000 shares of £1 each....		£100,000 0 0	
Issued—			
62,500 shares fully paid.....		£62,500 0 0	
22,500 shares 12/6 paid	£14,062 10 0		
Less calls in arrear	85 12 6		
		13,976 17 6	
			£76,476 17 6
Sundry Creditors—London		£504 0 9	
" " Vancouver		292 1 0	
			796 1 9
			£77,272 19 3

CORINTH MINES—Continued.

Cr.

Purchase of Properties—			
Paid in shares per contra ..	£62,500 0 0		
Paid in cash	7,500 0 0		
		£70,000 0 0	
Expended on Development and preliminary expenses		4,395 4 11	
			£74,395 4 11
Stores, tools, &c.....			84 6 1
Cash at Bank—London.....		£1,091 5 3	
" " Vancouver		156 12 4	
			1,247 17 7
Profit and loss—Balance.....			1,545 10 8
			£77,272 19 3

PROFIT AND LOSS ACCOUNT FROM THE 2ND APRIL, 1897, TO THE 30TH SEPTEMBER, 1898.

Dr.

To Expenditure—England—			
Rent of offices and salary of secretary		£377 14 6	
Directors' fees.....		510 8 4	
Audit fee.....		15 15 0	
Legal expenses		12 7 8	
Cables, stationery and general expenses ...		55 8 3	
			£971 13 9
To Expenditure—Vancouver—			
General mining, assaying and supplies	829 10 8		
Office salaries, interest, exchange, and travelling expenses	118 7 0		
Law costs	26 10 3		
Milling account.....	324 5 10		
			1,298 13 9
			£2,270 7 6

Cr.

By Transfer fees	£ 2 14 6
Profit on boarding house	204 7 2
Ore recovered	517 15 2
Balance	1,545 10 8
	£2,270 7 6

CORONA MINING CO. OF ONTARIO, Limited.

Incorporated 13th January, 1899. Authorized Capital, $199,000, in shares of $1.00 each.

Directors:

F. Winthrop, Niagara, Ont. W. H. Wylie, Niagara, Ont.
W. M. Lees, Brockville, Ont.

Head Office: Niagara, Ont.

Formed to carry on in all their branches the operations of a mining, milling, reduction and development company.

COTTONWOOD RIVER (B.C.) ALLUVIAL GOLD MINING CO., Limited.

Registered 6th November, 1897, and is a reconstruction of a company of the same name. Authorized Capital, £80,000, in 65,000 ordinary shares of £1 each, and 15,000 10 per cent. preference shares of £1 each.

Directors:

W. H. Roberts, Chairman.

J. H. Dettman Todd.	Dr. J. B. Baker.
J. Hay.	E. Lindsey Phillips.

Head Office: W. Cooper, Secretary, 9 King St., Cheapside, London, E.C.

The property held by the company comprises three alluvial mining leases containing about 240 acres, near the Cottonwood River and on the Fraser River, British Columbia. During 1898 the company's operations suffered from a slide which destroyed several hundred feet of tunnelling. In September a large force of men was set to work repairing the damage, and operations were pushed until frost set in. Work proceeding.

CROWN WAREHOUSING CO, Limited.

Incorporated 1885. Authorized Capital, $50,000, in shares of $100. Paid up Capital, $33,000.

Directors:

C. Jenkins, President and Secretary.
John D. Noble, Vice-President. Robert D. Noble.

CROWN WAREHOUSING CO.—Continued.

Head Office : Petrolia, Ont.

This company operates 22 wells at Petrolia and 16 wells at Oil Springs, Ontario, producing about 375 barrels per month. Length of pipe lines 13½ miles. Receiving stations at Petrolia and Oil Springs, having a storing capacity of 50,000 barrels of underground tankage for holding crude oil.

CROW'S NEST MINING CO.

Organized 1897. Authorized Capital, $300,000.

Directors :

Marland L. Pratt, Boston, President.

Lawrence W. Jenkins, Boston. | Clarence H. Millett, Boston.
Walter C. Cogswell, Boston. | H. Harris Phinney, Boston, Treas.

CANADIAN OFFICE

W. H. Weston, Superintendent, Melrose, N.S.

Owns and operates 249 gold mining areas at Melrose, Guysboro County, Nova Scotia. Leads worked are Stake lead, 2 in. to 30 in.; North lead, 2 in. to 18 in.; Rose lead, 8 in., and Belt, 4 ft. to 22 feet.

Mine is opened at 200 ft. level by an adit 600 ft., cross-cuts 140 ft., and drifts 100 ft., with two winzes to 140 ft. level. On 140 ft. level, drifts 550 ft., two upraises to surface, and winze to 60 ft. level. Drift 300 ft. on 60 ft. level, and upraise to surface.

Milling plant—20 stamps, 850 lbs., 100 drops per min.

Engine—Tandem, compound condensing, 8 x 16 x 15.

Boilers—Two locomotive, covered, 60 h.p. each.

Pumps—Two Northey duplex, one 6 x 4 x 7, and one 4½ x 2¾ x 4.

Electric—One Edison bi-polar dynamo, 140 lights, 16 c.p.

Air compressor—One Ingersoll-Sergeant, cross-compound duplex 10 x 18 x 12, capacity 5 drills.

Rock drills—Two Sergeant C 24. One Rand "Slugger" No. 32. One "Little Giant" No. 2.

Rock breaker—One Dodge Giant 9 x 16.

Fuel—Coal, run of mine, Sydney, $4.80 per ton of 2,240 lbs. Wood, beech and birch, $2.10 per cord. To run 20 stamps and rock breaker, pumps, dynamo and two machine drills, burns 5¼ cords of wood or 2½ tons coal in 24 hours.

Mill capacity—40 tons per day of 22 working hours, through 30 mesh screen.

Ore crushed—3,270 tons, yielding 242 ozs. 7 dwts. gold.

CROW'S NEST PASS COAL CO., Limited.

Incorporated April, 1897. Authorized Capital, $1,500,000, in shares of a value of $25.00 each.

Officers:

Hon. Geo. A. Cox, President, Toronto.
Robt. Jaffray, 1st Vice-President and Managing Director, Toronto.
H. M. Pellatt, 2nd Vice-President, Toronto.
William Fernie, Land Commissioner, Fernie, B.C.
J. A. Gemmill, Secretary, Ottawa.
E. R. Wood, Treasurer, Toronto.

Directors:

Edwin Hanson, Montreal.
William Hanson, Montreal.
S. Finley, Montreal.
D. Morrice, Montreal.
J. D. Chipman, St. Stephen, N.B.
J. W. Flavelle, Toronto.
Thomas Walmsley, Toronto.
Elias Rogers, Toronto.

Mines Office: Fernie, B.C.

This company owns 11,169 acres of coal lands, situated near Marten Creek, Coal Creek and Morrisey Creek, in the East Kootenay District, Province of British Columbia. On the easternmost property, near Marten Creek, containing, 3,969 acres, there are fifteen seams of coal, four of which are cannel, or gas coal. The remaining seams are bituminous, and admirably adapted for coking. In the westernmost property of 7,200 acres, a distance of 12 miles from the former property, there are 12 superimposed seams of coal cropping out of the side of the mountain, varying from 2 to 30 feet in thickness. These are partly bituminous and partly semi-anthricite.

Colliery at Coal Creek, B.C., connected by branch line with Crow's Nest Pass Railway.

Seams worked—On the north side of Coal Creek a bituminous seam of an average thickness of 6 feet; on the south side of Coal Creek a semi-anthracite seam of 7 feet thick, both coking coals. The former gives a good domestic and blacksmiths' fuel, the latter a good steam coal. Dip averages from 5° to 10°.

Opened at date by 3 drifts in the mountain side; in at date of report about 1,000 ft.

Method of working—Pillar and stall.

Lights—Naked.

Ventilation—Chandler high-speed fan, 15 feet dia., 6 foot blade, driven by electric motor developing 100 h.p.

Boilers—Equipment at date comprises 2 temporary locomotives of 100 h.p. each, to be superseded by the application of water power to generate electricity for all purposes.

CROW'S NEST PASS COAL CO.—Continued.

Coal cutting—2 Jeffrey electric, capacity 100 tons per day each; to be increased as development proceeds.

Haulage—1 Jeffrey electric locomotive, capable of hauling 100 tons per trip on the level.

Loading and Screening—Automatic chutes, shaking screens and picking belts, operated by a 25 h.p. electric motor, furnished by I. Matheson & Co., New Glasgow, N.S.

Coking plant—50 beehive ovens, capacity 2 tons of coke per oven per diem, each supplied by electric motor lorry. It is intended to construct 200 ovens.

(SALES AND OUTPUT) 1898.	COAL.		COKE.		
(Tons of 2,240 lbs.)	Tons.	Tons.	Tons.	cwt.	Tons.
Sold for consumption in Canada...	9,297		322	9	
" export to U.S.....	37		38	11	
" " other countries..	.....				
Total sales.....	.....	9,334			361
Used in making coke.....	470				
" under colliery boilers, etc....	150				
Total for colliery use..	.....	620			
Total output of colliery, 1898.	.....	9,954			361

CRYSTAL GOLD MINING CO., OF RATHBURN, Limited.

Incorporated 1894. Authorized Capital, $1,000,000, in shares of $100.

Directors:

Hon. Peter White, Pembroke, Ont.
Alexander Barnet, Renfrew. | Jas. B. Klock, Klock's Mills.
Thos. Hale, Pembroke. | R. McConnell, Mattawa.

Head Office: W. R. White, Secretary-Treasurer, Pembroke, Ont.
Rinaldo McConnell, Managing Director, Mattawa, Ont.

Owns and operates a gold mining property at Lake Wahnapitae, Province of Ontario. Small milling plant erected in spring of 1897. Work at present suspended.

CUMBERLAND GOLD MINING COMPANY, Limited, OF BRITISH COLUMBIA.

Registered in British Columbia in 1897. Authorized Capital, $2,000,000, in shares of $1.00. In July, 1897, 100,000 shares were offered by the Company at five cents each.

Directors:

Frank H. Young, President.

J. H. McDonald, Vice-President. A. C. Sinclair, M.D. A. B. Acorn.
Dr. J. T. McKenzie. G. W. Willard. J. D. Breeze. J. M. Edgren.

Head Office: Dr. J. T. McKenzie, Rossland, B.C.

Owns the Boston, Cumberland, White Rose, Hidden Treasure, and Copper Cape mineral claims, situated on the North Fork of Wild Horse Creek, a tributary of Salmon River, Nelson Division, British Columbia.

CUMBERLAND RAILWAY AND COAL CO., Limited.

Incorporated 25th May, 1883. Authorized Capital, $2,000,000. Bonds, $1,250,000, of which $1,000,000 have been issued.

Directors:

Robert Cowans, President.

Hon. G. A. Drummond, Vice-President.

David Morrice. | J. R. Cowans.
H. R. Drummond. | W. J. Morrice.

Head-Office: H. R. Drummond, Secretary, Imperial Building, Place d'Armes, Montreal.

Mines Office: J. R. Cowans, General Manager, Springhill, N.S.

C. Hargreaves, Manager, Colliery Department, - -
W. D. Matthews, Assistant to Manager, Colliery Dept., } Springhill, N. S.
G. Hall, Mechanical Foreman, - - - - - -
R. H. Cooper, Cashier, - - - - - - - -

J. G. Aikman, Superintendent, Railway Department, Parrsboro, N.S.

Formed to acquire, work and develop coal lands, of which some 70 square miles are held under lease from the Government of Nova Scotia.

No. 1 Slope—Seam of 8 ft. worked; dip, 30°. This seam is worked as part of No. 2—coal being taken to latter slope through tunnel and hoisted to surface.

CUMBERLAND RAILWAY AND COAL CO.—Continued.

System of working, pillar and bord.

Ventilation—By blow-down fan, 20 ft. dia. ; width of blade, 8 ft. ; length of blade, 6 ft. 8 in. ; length of shaft, 11 ft. 3 in. ; dia. of shaft, 8 in.

Lamps—Marsaut.

Boilers—6 double flue, 45 h. p. each ; 3 tubular, 25 h.p., loco. pattern.

Hoisting engines—1 double-geared winding engine, cyls. 18 x 36 in., drum 9 ft. dia. ; 1 electric light engine, cyl. 8 x 12 in. ; 1 fan engine, cyl. 15 x 30 in.

Pumps—1 boiler feed, Jeanesville, duplex, 8 x 4 x 8 ins.

No. 2 Slope—W. Lorimer, Underground Manager.

Seam of 10 ft. 6 in. worked ; dip 30° ; length of slope, 3,000 ft.

System of working—Pillar and bord.

Ventilation—By blown-down fan, dia. 16 ft. ; length of blade, 6 ft. 6 in. ; width of blade, 4 ft. 10 in. ; dia. of shaft, 8 in. ; length of shaft, 10 ft. 8 in.

Lamps—Marsaut.

Boilers—4 double flue, 40 h.p. each ; 2 Lancashire flue, 70 h.p. each.

Hoisting engines—1 double-geared winding engine, cyls. 22 x 36 in. ; drum dia., 9 ft. 10 in.

Pumps—1 Jeanesville duplex 28 x 9 x 36 in. ; 1 Jeanesville duplex 22 x 7 x 24 in. ; 2 boiler feed (Jeanesville), duplex, 8 x 4 x 8 in.

1 pr. Link reversing-geared haulage engines, cyl. 16 x 20 in., with four 5 ft. drums to operate underground haulage system.

1 Rotary screen engine, cyl. 12 x 30 in.

1 direct acting fan engine, cyl. 12 x 30 in.

Screens—Straight steel bars 15 ft. long, rotary screen 20 x 5 ft. with conveyors and elevators.

No. 3 Slope—W. D. Matthews, Underground Manager.

Seam of 10 ft. worked ; dip 28° ; slope, 2,600 ft.

System of working—Bord and pillar and longwall.

Lamps—Marsaut.

Ventilation—By blown-down fan, 14 ft. dia. ; length of blade, 3 ft. 6 in. ; width, 6 ft. dia. ; shaft, 7½ in., direct acting engine, cyl. 12 ft. x 30 in.

Boilers—8 double flue, 40 h.p. each.

Hoisting engines—1 double-geared winding engine, cyl. 18 x 36 in ; dia. of drum, 9 ft. ; 1 engine, cyl. 6 x 12 in., for hoisting timber to bank, and empty boxes up incline. 1 Robb-Armstrong, 11 x 12 in., for driving rotary screen.

1 p. Link reversing-geared haulage engines, cyl. 16 x 20 in., with four 5 ft. drums to operate underground haulage.

1 direct acting fan engine, cyl. 12 x 24 in.

CUMBERLAND RAILWAY AND COAL CO.—Continued.

Pumps—1 Jeanesville compound duplex, cyls. 38 in. and 25 in., 10 in. plungers, 36 in. stroke; 2 Blake, 11½ x 28 x 36 in.; 1 Jeanesville duplex 14 x 5½ x 12 in.; 1 Jeanesville boiler feed, duplex, 8 x 4 x 8 in.; 1 McDougall, 8 x 4 x 10 in.

Screens—Straight steel bars 15 ft. long; rotary screen 20 x 5 ft., with conveyors and elevators.

Machine shop fitted with necessary tools for repairs to colliery plant, including eight locomotives, which are employed in hauling coal from the collieries, etc.

COAL SALES.

	1889.	1890.	1891.	1892.	1893.	1894.
Nova Scotia	99,847	89,525	109,783	118,884	129,515	123 795
New Brunswick	93,527	107,047	123,652	105,472	133,290	126,057
Quebec	172,406	173,277	163,956	129,271	119,284	98,914
United States	9,986	7,734	8,815	8,374	9,050	36,205
	375,766	377,583	406,206	362,001	391,139	384,991

COAL DISPOSALS.

	1895.	1896.	1897.	1898.
Nova Scotia	123,848¾	107,848	83,788	107,669
Quebec	123,443½	58,182	18,528	16,935
New Brunswick	64,828¾	172,188	130,105	172,715
United States	16,545½	18,469	12,084	25,223
Total	328,666	355,887	244,505	322,542

CRŒSUS GOLD MINING AND DEVELOPMENT CO. OF RAT PORTAGE, Limited.

Authorized Capital, $195,000, in shares of a par value of $10.00.

Directors:

Hugh J. Macdonald. | R. R. McLennan. | Jerry Robinson.
W. Williams. | J. A. Linton. | T. S. Kennedy.

Head Office: Rat Portage, Ont.

Formed to carry on mining in the Province of Ontario.

DARDANELLES MINING AND MILLING CO., Limited.

Re-incorporated under the Statutes of British Columbia, 9th September, 1898. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Directors:

Hon. E. Dewdney. Hon. F. Peters. Sir Charles Hibbert Tupper, M.P. Lt.-Col. Ray. W. J. Trethewey.

Head Office: Victoria, B.C.

Mines Office: McGuigan, B.C.

Owns and is developing the Dardanelles group, comprising seven mineral claims, situate Dardanelles Basin, Slocan Mining District, British Columbia. Mineral mined, galena. Opened by shaft down at date of report 483 feet. During 1898 14 persons employed and 78 tons shipped.

On the vein of the Dardanelles, cutting across the Slocan slates and the porphyry dykes, a shaft has been sunk 43 feet and 2,600 feet of drifts and raises run, and from these workings over 325 tons of high grade ore were shipped that averaged 265 ounces of silver per ton, and 26 per cent. lead, while several hundred tons of second-class ore, said to assay over 75 ounces of silver and 16 per cent. lead, were piled on the dump, 76 tons of which were shipped to the Pilot Bay Smelter, giving the above returns. From a copy of the smelter returns the ore is seen to have run from 145.8 to 470.2 ounces of silver per ton, and from 15 to 56 per cent. lead; one shipment of ten tons giving this highest return, while 115 tons yielded 300 ounces of silver per ton. The ore carries a few units excess of zinc above the 10 per cent. smelter limit.

Other veins have been slightly prospected upon the Okanagan and Diamond Cross, but these will not be properly opened up. In the old shaft the small plant of a 7 h.p. boiler and a No. 6 Knowles pump was quite inadequate to handle the water. There is a good supply of timber for mine purposes; and for transportation at present a trail 1½ miles leads out to the Washington waggon road and thence to McGuigan's Siding, on the Kaslo and Slocan Railway.

A 60 h.p. compressor plant has been established 2,300 feet lower down the mountain, in the vicinity of ample wood for fuel, and the air is conveyed by pipes to the mine.

DAWN PRODUCING CO., Limited.

Incorporated 1898. Authorized Capital, $45,000, in shares of $45 each.

Directors:

J. P. Rogers, Toronto, Ont. L. J. Thomas, Toronto, Ont.
Rev. W. I. Moore, Toronto, Ont.

Head Office: Toronto, Ont.

Formed to acquire, prospect, develop, operate and deal in oil and gas lands and wells.

DAYTON MINING AND MILLING CO.

Mine Office: John G. Steele, Manager, Sandon, B.C.

This Company owns and is developing five mineral claims on the Kaslo and Slocan Railway, one mile from the Town of Sandon, Slocan Mining District, British Columbia.

DECCA MINING CO. OF ONTARIO, Limited.

Authorized Capital, $975,000: Treasury Shares, $275,000.

Directors:

W. F. Borland. C. C. Corneille. Bannell Sawyer.
K. C. Campbell. Dr. C. S. Stroud.

Head Office: Bannell Sawyer, Secretary-Treasurer, Temple Building, Montreal.

Mine Office: Mine Centre, Ont.

Owns and is developing Mining Location K 222, Seine River District, Ontario. Opened by two shafts. Mining plant includes 7-drill air compressor, etc. The following statement of the affairs of the Company has been received 15th June, 1899:—

WORKING CAPITAL.

	Received.		Paid.
Cash	$21,167 75	Disbursed	$16,628 55
Bills rec	13,832 25	Balance	18,371 45
	$35,000 00		$35,000 00

DECCA MINING CO. OF ONTARIO.—Continued.

FINANCIAL POSITION.

Assets :—

Mining Location K 222	$700,000 00
Buildings	1,000 00
Shafts and drifts	6,500 00
Ore on dump	10,000 00
Machinery	5,000 00
Supplies	1,000 00
Unissued Treasury Shares	135,000 00
Cash and bills rec	18,300 00
	$876,800 00

Liabilities :—

Stock paid for mine	$700,000 00
Treasury issued	140,000 00
Current accounts	2,000 00
Surplus	34,000 00
	$876,800 00

DEEP CAVE GOLD MINING CO., Limited.

Authorized Capital, $250,000, in shares of a par value of 25 cents.

Directors :

Dr. Jas. T. Carroll. Michael Costello Walter Taylor.

Head Office : Vancouver.

Formed to acquire certain mineral claims on Silver Creek, Harrison Lake, Yale District, Province of British Columbia.

DEER PARK GOLD MINING CO.

Incorporated 1897.

Authorized Capital, $1,250,000, in shares of a value of $1.00.

Directors :

J. R. Barber, M.P.P., President.

L. W. Mulholland. | R. L. Patterson.
Donald Cameron. | F. A. Mulholland.

Head Office : 30 Jordan St., Toronto ; Melford Boulton, Secretary.

Mines Office : F. A. Mulholland, Manager, Rossland, B.C.

Owns and operates the Deer Park mineral claim, comprising 52 acres and situated on the east side of Deer Park Mountain, 1½ miles southwest of the town of Rossland, Trail District, Province of British Columbia.

DELAWARE MINING AND MILLING CO., Limited.

Incorporated 1896. Authorized Capital, $1,000,000, in shares of $1.00.

Officers :

S. S. Glidden, Spokane, President and Treasurer.
David Glass, Rossland, Vice-Presidt. Phil. T. Becher, Spokane, Secretary.

Head Office : Spokane, Wash.

Canadian Office : Rossland, B.C.

Owns and is developing the Delaware, No. I, Olympia, and Mogul mineral claims, on Gold Hill Mountain, 2 miles from Rossland, British Columbia.

DELTA MINING AND DEVELOPMENT CO., Limited.

Incorporated 1895. Authorized Capital, $100,000.

Directors :

John Clark. A. C. McArthur. J. W. Jackson.

Head Office : Vancouver, B.C.

Formed to acquire and work mineral claims on Lulu Island, and recorded as "The Setting Sun," the "Diablo," and the "Valkyrie."

DENSY MINING COMPANY, Limited.

Registered in British Columbia, 30th May, 1899. Authorized Capital, £2,000, divided into 40 shares of £50 each.

Head Office : 54 and 55 London Wall, London, England.

CANADIAN OFFICE :
Vernon, B.C. C. F. Costerton, Attorney.

Formed to enter into and carry into effect, subject to the approval by the Company of the report to be furnished by the Company's Mining Engineer, and either with or without modification, an Agreement which has already been prepared and is expressed to be made between Thomas Pinchard Kempson of the one part, and the Company of the other part, a copy whereof has, for the purpose of identification, been signed by the subscribers to the Memorandum of Association of the Company.

DERBY MINING COMPANY, Limited.

Incorporated 1897. Authorized Capital, $1,000,000, in shares of $1.00.

Directors:

J. Houston. R. E. Lemon. E. T. H. Simpkins.

Head Office: Nelson, B.C.

Formed to carry on mining in British Columbia.

DESERONTO IRON CO., Limited.

Incorporated under Ontario Statutes, 27th April, 1898. Authorized Capital, $99,900, in shares of $100.

Directors:

F. B. Gaylord. Wm. Gerhouser. F. A. Goodrich.
E. W. Rathbun. E. Walter Rathbun.

Head Office and Works: Deseronto, Ont.

This company is operating a charcoal blast furnace at Deseronto, Ontario, having a capacity of 50 tons per day.

This furnace is located on the shore of the Bay of Quinte. The stack is a steel shell, surmounted by a steel gallery, roofed over. Height of stack, 61 ft. over all. Diameter of bosh, 9 ft. 6 in. Cast iron water jacket, pierced for six and blown with five (3 in.) tuyers Hot blasts (2) upright, iron pipe stoves, seventy-two pipes. Is blown by one upright blowing engine; steam supplied by two hor. tubular boilers, 5 ft. shell, 20 ft. long.

Casting house and stock house are of brick and frame, sheathed with iron. Engine and boiler houses of brick, hoist tower of frame, sheathed with iron, all gravel roofed.

Ores used, Lake Superior hard and soft hematite. Local ores will be used if procurable in requisite quantity and quality.

Product, Lake Superior charcoal pig iron for car-wheel, malleable and foundry use. Present output 1,000 tons (gross) per month.

The present estimated maximum capacity of the furnace is 50 gross tons per day. The dimensions of the shell and the size of the buildings and the engine and steam capacity are designed to admit of increased product, by relining, to the extent of twenty to thirty per cent. of the present maximum.

Fuel (charcoal) is supplied in cars on track at furnace, in daily requisite quantity, from kilns and retorts at Deseronto.

Ore is received by vessel, from Lake Superior, unloaded by a three hatch steam hoist and conveyed automatically to dump alongside stock house.

DETROIT CONSOLIDATED GOLD MINING CO., Limited.

Incorporated 17th March, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

Hon. T. Mayne Daly, President.
Robt. Scott, Vice-President. Harold Kingsmill, Secretary.

Head Office: Rossland, B.C.

Owns and is developing the Iron Queen, No. 1, Detroit Fraction mineral claims on Lake Mountain, 3 miles south-east of Rossland, British Columbia.

DIAMOND HILLS MINES, Limited.

Incorporated 1897. Authorized Capital, $1,000,000, divided into 1,000,000 shares of a par value of $1.00.

Directors:

T. Matthews. J. Z. Hall. John Matthews.
All of Vancouver, B.C.

Head Office: Vancouver, B.C.

Formed for the purpose of mining in British Columbia.

DIAMOND JUBILEE MINERAL DEVELOPMENT CO. OF ONTARIO, Limited.

Incorporated 12th May, 1899. Authorized Capital, $2,000,000, in shares of $1 each.

Officers:

Lieut.-Col. the Hon. David Tisdale, M.P., Simcoe, President.
Joseph E. Seagram, Esq., M.P., Waterloo, } Vice-Presidents.
W. B. McMurrich, Esq., Q.C., Toronto, }

Directors:

James Carruthers, Toronto.
John Foy, Toronto.
Auguste Bolte, Toronto.
William J. Clarke, Port Arthur.
H. A. Ward, Port Hope.
Christian Kloepfer, M.P., Guelph.
Capt. P. Larkin, St. Catherines.
H. H. Dewart, Toronto.
John Laxton, Toronto.
Stair Dick Lauder, Toronto.

E. Strachan Cox, Secretary. Henry S. Mara, Treasurer.

Head Office: 7 and 9 Toronto Street, Toronto, Ont.

Owns and is developing the Minto Mine, Wa Wa District, Ontario.

DOLLAROCRACY MINING AND SMELTING CO., Limited.

Authorized Capital, $1,000,000, in shares of $1.00.

Directors:

F. P. Gatelins. J. W. Kimball. Lee Davenport.

Head Office: Trail Landing, B.C.

Formed to acquire by purchase or otherwise, the mineral claims known ae the Pete and Lulu, situated on the Pen D'Oreile River, on the north bank thereof, three miles from its junction with the Columbia River, in the Trail Creek Mining District, British Columbia.

DOMINION AND BRITISH COLUMBIA MINERALS SYNDICATE, Limited.

Offices: Broad Street House, London, E.C.

This company was registered on the th September, 1896, to search for, examine, explore, develop and turn to account mines in British Columbia or elsewhere. The Authorized Capital is £3,000, in 2,800 ordinary shares of £1 each, and 200 founders' shares of £1 each. The ordinary shares are first entitled to a preferential dividend of 15 per cent. and one-half of the surplus profits, the founders' taking the other half.

DOMINION COAL CO., Limited.

Incorporated by Act of the Legislature of Nova Scotia, 1st February, 1893. Authorized Capital, $18,000,000. Issued, $16,500,000. Common, $15,000,000. Preferred, 1,500,000. Authorized bonded indebtedness, $3,000,000, first mortgage bonds at 6 per cent. Issued, $3,000,000.

Directors:

Henry M. Whitney, Boston.

S'r Donald A. Smith, Montreal. | F. S. Pearson, Boston.
Henry F. Dimock, New York. | Sir W. C. Van Horne, Montreal.
Hugh McLennan, Montreal. | Robert Winsor, Boston.

W. B. Ross, Q.C., Halifax.

General Offices: 95 Milk St., Boston.

Henry M. Whitney, President. | John S. McLennan, Treasurer.
Alfred Windsor, 1st Vice-President. | F. S. Pearson, Chief Engineer.

Hon. David McKeen, 2nd Vice-President.

DOMINION COAL CO.—Continued.

CANADIAN OFFICE:

Glace Bay, Cape Breton, Nova Scotia.

Hiram Donkin, C.E., Resident Man. | John Johnston, Assistant to Man.
J. R. Blackett, Cashier. | B. F. Pearson, Halifax, Secretary.

CANADIAN SELLING AGENTS:

Kingman & Co., 14 Place Royale, Montreal, and M. R. Morrow, 171 Lower Water St., Halifax.

This company has been formed to carry on the business of mining, transporting and selling bituminous coal from the County of Cape Breton, Nova Scotia. It operates under a lease which gives a tenure of its mining property of ninety-nine years, the royalty to the Nova Scotia Government for the whole period being fixed at a maximum of 12½ cents per ton with a minimum gross amount for each year to be paid on at least as many tons as were, in the year 1891, sold by all the mines included in the new company.

At 1st March, 1894, it had acquired an area of some seventy square miles of coal lands in Cape Breton upon which are the following collieries:—"Caledonia," (formerly the property of the Caledonia Coal and Railway Co., Ltd.); "International," (formerly owned by the International Coal Co., Ltd.); "Gardiner," (formerly owned by Burchell Bros., Sydney); "Glace Bay," (formerly owned by the Glace Bay Mining Co., Ltd.); "Old Bridgeport," (formerly owned by the International Coal Co., Ltd.); "Reserve," (formerly owned by the Sydney and Louisburg Coal and Railway Co., Ltd.) "Gowrie," (formerly owned by the Gowrie Coal Mining Co., Ltd.); "Victoria," (formerly owned by the Low Point, Barrasois and Lingan Mining Co., Ltd.); the "Ontario" Colliery, and the "Sword," "Meagher" and other coal areas, steamers, lines of railway, etc., etc.

Caledonia Colliery—One mile from Little Glace Bay. Manager, T. J. Brown, Underground Manager, Thomas Johnston.

Phelan seam of 7 ft. worked; dip averages 1 ft. in 12; vertical depth of shaft, 185 ft.; length of east slope, 2,300 ft.; west slope, 2,500 ft.; west level, 5,500 ft.

System of working—Pillar and bord, and longwall.

Ventilation by Murphy fan, 12 x 6 ft., capable of producing 100,000 cubic ft. of air.

Naked lights.

Boilers—4 Babcock.

Pumps—1 No. 7 Blake; 1 Northey Compound Duplex, capable of raising 1,000 gallons per minute to the surface.

DOMINION COAL CO.—Continued.

Hoisting engines—1 20-in. double cylinder, 3 ft. 6 in. stroke, with 8-ft. drum.

Air compressor—1 20 x 30 piston inlet, Ingersoll make, with a capacity for 12 coal mining machines; one Rand compressor, 48 x 30, with Corliss valves; 28 coal mining machines, 1 longwall undercutter, 6 Jeffrey borers.

Coal heading machines: 2 Stanley.

3 Endless haulages, driven by one 22 x 54-in. horizontal engine, with friction gear.

3 Patent dumping cages and self-weighing tanks.

1 Steam water heater.

Electric lighting above and below ground.

Elevator for producing Nut and Duff.

1 Shaking screen engine, 12 x 24 in.

International Colliery at Bridgeport, 12 miles from the town of Sydney; Peter Christianson, Superintendent; A. McEachren, Underground Manager.

Harbor seam worked averages 5 ft. 10 in.; dip. 1 in 12; length of slope, 4,000 ft; vertical depth of shaft, 90 ft.

System of working—Pillar and room.

Ventilation—Murphy fan, 8 ft. dia.

Naked lights.

Winding engines (on surface)—Pair 16 x 36 in. and 14 x 30 in.; 8 ft. drum.

Pumps—1 Knowles, 160 ft. suction, vertical 320 ft. through bore hole.

Boilers—1 Babcock, 210 h.p.; 1 Monarch tubular.

Haulage—One 18 x 36 for driving endless haulage, on slope fixed on surface.

Reserve Colliery, situated at Bridgeport Basin, two and one-half miles from Glace Bay; James McVey, Superintendent; Norman McKenzie, Underground Manager.

Phelan seam, averages 8 ft. 8 in.; dip, 1 in 13; worked by two slopes, of which the "Main" is 5,600 ft., and the "French" 5,000 ft. long; vertical depth about 380 feet.

System of working—Pillar and room.

Ventilation by fan, capable of producing 200,000 cubic ft. of air per minute; running 100 revolutions per minute; Chandler fan, 15 ft. dia. engine coupled direct.

Naked lights.

Hoisting engines—One winding engine, 22 in. cyl., 4½ ft. stroke; geared 5 to 1, working 2 endless haulages.

DOMINION COAL CO —Continued.

Pumps—One Cameron pump, 14 in. steam cyl., 8 in. water cylinder, 18 in. stroke.

Boilers—Two Babcock, each 210 h.p.

Screens in use—Two shaking screens, each 18 ft. long; 2 picking belts, each 33 x 5 ft., one engine 12 x 24 driving same.

Ingersoll-Sergeant coal cutters.

Mitchell's patent tippler.

Slack elevator for producing Nut and Duff.

1 Rand compressor.

Old Bridgeport Colliery, situate on the south side of Lingan Bay, ten miles from town of Sydney; Robert Robson, Superintendent; George Greenwell, Underground Manager.

Phalen seam, 8 ft. worked; dip averages 1 in 11; shaft 120 feet.

System of working—Pillar and bord.

Naked lights.

Ventilation by 8 ft. Murphy fan; 70,000 cubic ft. of air per minute.

Two air compressors, one 20 x 20 x 24 in. stroke; one 24 x 24 x 30 in. stroke.

Hoisting engines—One double drum 8 ft. dia., cyl., 18 x 24 in.; made by Matheson, of New Glasgow.

Boilers—Five 40 h. p. water bottom, tubular loco. type fire.

Pumps—None. (Level to sea, natural drainage).

Screens—Two ¾ mesh, 20 x 6 ft.

2 Patent self-dumping cages and self-weighing tanks.

Ingersoll-Sergeant coal cutters.

Haulage—One endless haulage engine 18 x 36 in.; and 1 engine two cyls. 10 x 12 in., geared 5 to 1.

One elevator to produce nut and duff.

Dominion No. 1—Situated about 10 miles from town of Sydney; J. C. Mitchell, Manager; A. Scott, Underground Manager.

Phalen seam, 8 ft. thick; dip, 1 in 14.

Naked lights.

System of working—Pillar and room.

Ventilation—12 ft. Murphy fan, coupled direct; capacity 100,000 cubic feet of air per minute.

Boilers—Four Babcock, each 210 h p.; working pressure, 100 lbs.

Hoisting engines—One pair 24 x 54 in. cyl.; 8 ft. drums. 1 man-hoisting pair 16 x 30 in. cylinders; 6 ft. drum.

Air compressors—Two Ingersoll-Sergeant compound steam 48 x 30 in.; Corliss valves.

DOMINION COAL CO.—Continued.

Pumps—Cameron.

Two Stanley headers.

Undercutting machines—Yoch, Ingersoll-Sergeant and Harrison.

Endless haulage engines—One pair 18 x 36 in.

One Mitchell long-wall machine.

One steam heater.

One slack pocket, elevator and conveyor; 2 self-dumping cages and weighing tanks; steel pit frame 85 ft. high; engine and boiler house built of brick.

One brick stack 125 ft. high.

Two shaking screens 18 x 6 ft.

Two picking belts 40 x 5 ft.

One Cameron pump, 18 x 24 x 8, below, raises all the water to the surface.

Carpenters' and smiths' shops and commodious railway sidings, standard gauge, connect this mine with the company's general Sydney and Louisburg system.

A large coal washing plant capable of handling 500 tons per day has been erected at a convenient place adjacent to the Sydney and Louisburg Railway, about three miles west of Morien Junction. The water supply is obtained by gravitation from Morrison Lakes, and it is hoped that this important plant will be kept running to supply gas fuel for the Nova Scotia and Eastern States trade. The cost is about $53,000.

OUTPUT AND SHIPMENTS OF COLLIERIES.

COLLIERY.	1895.		1896.		1897.	
	Raised	Shipped	Raised	Shipped	Raised	Shipped
Gowrie	54,138	41,052	50,166	39,183	41,873	30,436
Reserve	199,553	192,887	269,802	243,458	266,384	234,092
Old Bridge'pt	107,202	99,329	140,539	133,922	129,913	126,904
Glace Bay	49,795	44,143	.....	.....	.....	.....
Victoria	96,931	83,051	62,810	52,310	104,321	91,295
Caledonia	163,423	145,227	231,515	212,985	261,378	218,455
International	96,605	86,041	98,721	91,280	112,092	97,822
Dom. No. 1	73,167	63,109	161,528	151,796	234,977	219,746
Hub	33,617	29,960	137,721	133,821	100,357	87,218
	874,431	784,799	1,152,802	1,058,755	1,251,295	1,105,968

DOMINION COAL CO.—Continued.

COAL DISPOSALS, 1895-6-7.

	1895.	1896.	1897.
Nova Scotia (including land sales)	148,938	183,079	194,587
Prince Edward Island	12,101	16,359	16,223
Newfoundland	38,907	42,598	38,721
Quebec	459,124	556,306	672,041
New Brunswick	25,739	41,940	43,542
St. Pierre	4,662	4,598	7,741
West Indies	266	.....	.....
United States	56,534	162,489	79,163
Steamers	38,528	51,386	55,357
Colliery consumption	44,469	51,711	46,593
Company's Railways	7,146	4,628	6,039
Colliery employees	18,738	18,237	20,551
	855,152	1,133,331	1,180,558
RECAPITULATION.			
Shipped	784,241	1,057,595	1,105,968
Land sales	558	1,160	1,407
Collieries and railway	51,615	56,339	52,632
Employees	18,738	18,237	20,551
	855,152	1,133,331	1,180,558

OUTPUT AND SHIPMENTS OF COLLIERIES, 1898.

	Raised	Shipped
Gowrie	.....	.....
Reserve	211,812	231,865
Old Bridgeport	158,373	151,735
Glace Bay	.....	.....
Victoria	.....	.....
Caledonia	266,332	257,691
International	93,445	82,777
Dominion	330,171	321,185
Hub	74,549	63,231
	1,135,182	1,108,484

DOMINION COAL CO.—Continued.

COAL DISPOSALS, 1898.

Nova Scotia (including land sales)	181,768
Prince Edward Island	20,253
Newfoundland	28,732
Quebec	685,241
New Brunswick	41,612
St. Pierre	9,164
South Africa	807
United States	72,363
Steamers	69,570
Colliery consumption	36,846
Company's railways	6,121
Colliery employees	20,289
	1,172,766

RECAPITULATION.

Shipped	1,108,484
Land sales	1,026
Collieries and railways	42,967
Employees	20,289
	1,172,766

REPORT OF THE DIRECTORS

FOR THE YEAR ENDING FEBRUARY 28TH, 1899.

(*Submitted 1st June*, 1899.)

"The increasing business of the Company made it advisable to build an additional pier at Sydney, which has been done and charged to surplus for the year.

"It was also deemed advisable to provide increased facilities for banking coal during the winter, which has also been done.

"With the exception of some additional equipment for the railway, ordered but not yet delivered, all the expenditures necessary for mining and shipping the largely increased output have been made and paid for out of the surplus earnings within the last two years, without any increase in the capital account.

"Since the close of the fiscal year, February 28th, 1899, $58,500 of the bonds of the Company have been retired through the Sinking Fund, leaving the bonded indebtedness $2,876,500.

"In addition to the increase in business expected from shipment to the United States during the coming year, the Canadian business promises to be much larger than ever before."

HENRY M. WHITNEY,
President.

DOMINION COAL CO.—Continued.

REPORT OF THE TREASURER FOR THE YEAR ENDING FEBRUARY 28, 1899.

Net proceeds of sales of coal and net income from, steamships, railroads, barges, real estate, etc.			$679,304 78
Less Renewals and extensions at mines for year			52,526 47
Less			$626,778 31
Interest on Bonds	$176,100 00		
Sinking Fund 1898	57,210 35		
			233,310 35
Less			$393,467 96
Miscellaneous interest	$ 20,208 02		
Dividend Preferred stock paid and accrued	160,000 00		
			180,208 02
Balance			$213,259 94
Disposed of as follows:			
Charged off:			
New Pier at Sydney	$46,921 66		
Railway Extension	16,532 06		
" New Equipment	9,805 15		
New Banking Trestle for winter work	31,955 53		
New Briquette Plant	5,328 38		
New Discharging Plant at Point Levis	6,821 98		
New Houses and Moving and Re-building Houses	9,959 92		
Sundry other additions to property at Mines	5,348 88		
Coke Experiments	6,914 24		
Balance Stock in Sydney Hotel Co.	5,000 00		
		$144,587 80	
Balance to General Surplus		68,672 14	
			$213,259 94

BALANCES FEBRUARY 28TH, 1899.

Assets:		
Property accounts		$20,108,108 39
Cash Assets:		
Cash in Banks and Offices	$ 44,518 21	
Accounts Receivable	112,752 07	

DOMINION COAL CO.—Continued.

Balances due from Agents and Coal on hand	$ 333,772 00	
New Supplies in warehouse and stores	127,373 36	
Insurance Suspense	32,574 07	
Interest Suspense	1,614 38	
Cash in N. E. Trust Co. for Outstanding Coupons	89,595 00	
Cash in N. E. Trust for Sinking fund	132,458 62	
Cash in Am. Loan and Trust Co., Uncalled-Dividends	1,848 00	
		876,505 71
Total		$20,984,614 10

Liabilities:

Capital Stock, Common	$15,000,000 00	
" " Preferred	2,000,000 00	
First Mortgage Bonds	2,935,000 00	
Dividend Preferred Stock, January and Febuary, 1899	26,666 67	
Sinking Fund 1898	57,210 35	
Unpaid Coupons	89,595 00	
" Dividends	1,848 00	
" Royalty to February 28th, 1899	36,820 23	
Bills Payable	148,771 79	
Accounts Payable	320,000 00	
Balance General Surplus	368,702 06	
		$20,984,614 10

GENERAL SURPLUS ACCOUNT.

Surplus brought forward	$175,029 92
" from 1898	68,672 14
Railway Suspense Account	125,000 00
Total	$368,702 06

SINKING FUND, APRIL, 1ST 1899.

Dr.

$111,800 U.S. Reg. 4s. at cost	$124,817 62
Uninvested Funds	8,925 97
From 1898 business	57,210 35
	$190,953 94
Brought forward	$125,000 00

Cr.

For retirement of $58,500 Bonds	$65,953 94
Balance carried forward	125,000 00
	$190,953 94

DOMINION CONSOLIDATED MINES CO., Limited.

Incorporated under the Laws of British Columbia, 12th November, 1898. Authorized Capital, $500,000, in 2,000,000 shares of a par value of 25 cents.

Directors:

John R. Barber, M.P.P., Toronto, Ont.

W. J. Bickell, Toronto, Ont.
I. Oppenheimer, Vancouver, B.C.
Stephen Mangott, Fairview, B.C.
L. W. Shatford, Fairview, B.C.

A. E. Mason, Fairview, B.C.
John Love, Fairview, B.C.
Geo. H. Maurer, Fairview, B.C.
A. R. McGinnes, Toronto, Ont.

Head Office: Fairview, B.C.

Formed to purchase, take or lease, or otherwise acquire in any lawful manner, mining leases or mining claims or mining rights or mines held as real estate, or any other mining property in any part of the Province of British Columbia, or elsewhere, or any interest therein, and particularly the mineral claims known as the "Dominion," "A.D.A.," and "Fairview," situate at Fairview, in the District of Yale and the Province of British Columbia, and to pay for the same either in cash or fully paid up stock of the Company.

DOMINION DEVELOPING AND MINING CO., Limited.

Incorporated 1895. Authorized Capital, $22,500, in shares of a par value of 25 cents.

Directors:

Hon. John Haggart, M.P.

Dr. Montague, M.P. F. H. Lantz. John P. Carroll. John MacQuillan.

Officers:

J. P. Carroll, President. John MacQuillan, Secretary.

Head Office: Inns of Court Building, Vancouver, B.C.

Formed to carry on mining in British Columbia. The Secretary reports that dividends amounting to $152,152 have been paid to date, in cash, to the shareholders.

DOMINION EXPLORERS, Limited.

Offices: 24 Coleman Street, London, E.C.

This company was registered on 6th May, 1897, to prospect, explore, develop and deal with mines, etc., in any part of the world.

The Authorized Capital is £30,000, in 2,900 ordinary shares of £1 each, and 1,000 deferred shares of £1 each. 4,600 ordinary and 536 deferred shares have been issued. The deferred shares are entitled to half the surplus profits after the amount paid up on the ordinary shares has been returned in dividends (See Recordia, British Columbia Exploration Company, Limited).

DOMINION, FAIRVIEW AND GOLDEN KLONDYKE SYNDICATE, Limited.

Registered 22nd December, 1897. Authorized Capital, £130,000, in 130,000 shares of £1 each: in January, 1898, 77,500 shares were offered for subscription, payable, 10s. on application, and 10s. on allotment.

Directors:

Sir Thomas Wrigl.t, K.B., J.P. T. Durant Beighton. John J. Spencer.

Local Board in British Columbia:

Thomas Elliott. Henry C. Carr, C.E., M.E. D. M. Adamson.

Head Office: W. J. Spratling, B.Sc., F.G.S., Secretary, Broad St. House, London, E.C.

Canadian Office: Henry C. Carr, C.E., M.E., Fairview, B.C.

Formed to purchase four mines known as Wanita, Favourite, Hiram Walker and Golden Gate, situated in the Fairview Mining Camp, Okanagan District, British Columbia. The purchase consideration was £105,000, payable, £52,500 in cash, and £52,500 in fully paid shares, the cash being paid in instalments in proportion to the amount of working capital subscribed. The vendor, Meyer Isaacs, acquired the properties from Thomas Elliot (local director). It is intended to float subsidiary companies.

DOMINION GOLD AND SILVER MINES DEVELOPMENT CO.

Registered in British Columbia, April, 1897. Authorized Capital, $2,000,000, in shares of a par value of $1.00.

Directors:

Hon. N. C. Clark Wallace, M.P., Woodbridge, Ont., President.

E. A. Colquhoun, Hamilton, Vice-Pres
Dr. T. S. Sproule, M.P., Markdale.
James Armstrong, Toronto.
Wm. C Reaman, Winnipeg.
Fred. J. Claxton, Victoria.
Hon. Lt.-Col. Tisdale, M.P., Simcoe.
John J. Cook, Toronto.
Wm. Nattress, M. D. Toronto.
W. H. Hunter, Toronto.
R. F. Green, Kaslo.

Head Office: John N. Lee, Managing Director; James A. Lundy, Secretary, 40 Victoria St., Toronto, Ont.

Mines Office: Kaslo, B.C.

Formed to carry on mining operations in the Slocan and other districts of British Columbia.

DOMINION GOLD DREDGING AND PLACER MINING CO., Limited.

Authorized Capital, $40,000, in shares of $100.

Directors:

John Chambers. W. E. Raney. James Amess. Alex. Leslie.

Head Office: C. Raney, Sec.-Treas., 26 King St. E., Toronto.

Formed to carry on dredging for gold on the Fraser River, British Columbia. At date of report was constructing a powerful dredge of the dipper type, expected to be in operation in 1899.

DOMINION GOLD MINING AND REDUCTION CO., Limited.

Incorporated 1895. Authorized Capital, £200,000, divided into 200,000 ordinary shares of £1 each.

Directors:

A. Marshall Hay, Chairman.

Somerset F. Gough-Calthorpe. E. Allen Robinson. George A. Jones.
A. L. Foster. David Ziman.

DOMINION GOLD MINING AND REDUCTION CO.—Continued.

CANADIAN OFFICES:

Rat Portage, Ont., and Port Arthur, Ont.

Head Office: Percy G. Davis, Secretary, Portland House, 73 Basinghall Street, London, E.C.

The company owns and operates the undermentioned properties in the Province of Ontario:

The Rabbitt Mountain Mine near Port Arthur				about	300 acres.
The Reduction Works at Rat Portage				"	2 "
Mining Location X 90 known as		Black Jack		"	320 "
"	I 11 "	I XI.		"	27 "
"	K 76 "	Excelsior		"	99 "
"	P 175 "	Jerusalem		"	85 "
"	K 70 "	Golden Hill		"	90 "
"	P 193 "	Golden Slipper		"	20 "
"	P 192 "	192 P		"	51 "
"	P 191 "	Judge Mills		"	227 "
"	P 190 "	Combination		"	220 "
"	P 194 "	Golden Gate		"	75 "
"	P 298 "	Sultana Jr		"	25 "
"	K 100 "	K 100		"	80 "
"	P 188 "	Elphinstone Mine		"	95 "
"	P 23 "	Yellow Girl		"	17 "

The company also owns a controlling interest in the Homestake Mining Company of Algoma (151,000 shares of $1.00 each out of a total share capital of $300,000) and a one-third interest in the Queen of Sheba Mining Location (about 170 acres), both situated in the same district.

The Reduction Works, which are situated within the town limits of Rat Portage, embrace about two acres of freehold land, having dock frontage on the Lake of the Woods, and connection by siding with the Canadian Pacific Railway. They have been equipped with 20 stamps of the most improved type, and a complete outfit of milling machinery, including two ore breakers, frue vanners, Krupp concentrating tables and Colorado "Perfection Concentrators," automatic samplers, etc., etc. A chlorination plant (including roasting furnaces, etc., of sufficient capacity to deal with the concentrates of the district), and a cyanide plant of large capacity, are partially constructed and can be completed at a very moderate expenditure.

Excerpt from Directors' Report, 1898.

The following is excerpted from the Report of the Directors submitted at the third annual general meeting of the shareholders on 9th December, 1898:—

The result of all the work done on these locations seemed to point in the direction of D217 as the most promising point for further exploration, and as the Cedar Island Gold Mining Company had no working capital available, it was considered advisable for the Dominion Company to continue the

DOMINION GOLD MINING AND REDUCTION CO.—Continued.

work, and by agreement between the companies this company obtained a working bond on D217, which has been secured by a mortgage for cash advanced to the Cedar Island Company. Under this latter arrangement No. 6 Drill hole was put down at a point near the easterly end of the Location, close to the line of the adjoining location of the Mikado Gold Mining Co. The vein has been traced from the shore in Bag Bay, where No. 3 hole was drilled, to this point, and in some places very rich surface ore was found, assays running from $2 to as high as $92.80 per ton. The vein appears to be in or near the contact of the intrusive granite which lies between the No. 1 Mikado Vein and the Cedar Island Company's property, but I regret to say that No. 6 hole, which was drilled to a depth of 180 feet, was finished in trap after passing through the vein at 125 feet, about 3 feet wide, but assaying only an average of $1.50 per ton.

Reduction Works.—There has been little or no customs' work done at the reduction works during the past year. Our neighbours, the Ottawa Gold Mining and Milling Company, who erected their works at Keewatin (3 miles from Rat Portage) at a cost of over $100,000, have been able to secure what small amount of business was offering, owing to the lower rates they were quoting for the treatment of ore. I considered it better to lose the business than tackle it at a loss, so with the exception of 70 tons from the Sentinel Mine, which we milled at a profit, the works were practically idle all the year. The latter ore gave a return of $12 per ton in gold from the plates, besides which there was an assay value of $2 per ton in the concentrates and tailings, or a total value of $14 per ton. This result was considered highly satisfactory, and the owners of the property, the Sentinel Consolidated Gold Mining Company, of Toronto, are now prosecuting active development work on the property.

Although the operations of the company have not yet led to the successful exploitation and sale of any of the properties owned by it, I am glad to say that we are not without hope of reaching that result in respect of at least one property which, at the present time, is the subject of negotiation for a sale. I am also glad to be able to inform you that the company has acquired a mine in the Thunder Bay district of Ontaria, called the Rabbitt Mountain Silver Mine. which gives promise of making returns to the company that will, I hope, compensate for the expenditure which has been made by it in the Lake of the Woods district. The property has been acquired under exceptional circumstances at a price that would warrant the purchase of a moderately good prospect, whereas it is in every sense of the word a mine on which a large amount of development work has been done. The main shaft is down about 260 feet and is bottomed in good ore, and as the property is well equipped with a complete outfit of mining and milling machinery, this company is enabled to commence the work of mining and further development without any expenditure for plant, etc. I had the property pumped out before coming to England, and made a thorough examination of it, with the result that I am satisfied it is one of the best properties in the country, and I am glad to say that it has been decided to operate the mine forthwith.

DOMINION IRON AND STEEL CO., Limited.

Incorporated by an Act of the Legislature of Nova Scotia, passed 30th March, 1899. Authorized Capital, $10,000,000, divided into 100,000 shares of $100, with power to increase the same from time to time, to amounts, in all, not exceeding $20,000,000, upon a vote of a majority of the shares represented at a special meeting called for that purpose, or at any general meeting of the company.

Officers:

Henry M. Whitney, Boston, Mass., President.
R. B. Angus, Montreal, Vice-President.
John S. McLennan, Boston, Treas. Benjamin F. Pearson, Halifax, Sec'y.

Head Office: 95 Milk St., Boston, Mass.

This company, being organized, proposes to establish an extensive iron smelting and steel works in Cape Breton. Its objects, as stated in the Act of Incorporation, are as follows:—

(a) To purchase, hold, lease, acquire and sell mines, minerals and mining and other rights, easements and privileges.

(b) To mine, quarry, get, work, mill and prepare for sale by any process, coal, iron and other ores, and all or any other minerals or metallic products, and to manufacture therefrom any by-products, and to smelt the iron ores and other metallic substances, and to manufacture iron, steel and any other products therefrom, and to trade in the products of such mines or manufactures.

(c) To purchase, acquire any interest in, hold, use, occupy sell and convey real estate, mills, machinery, vessels, vehicles propelled by steam, electricity or otherwise, and other property, and to mine coal, smelt, dress and in every or any manner and by every or any process to manufacture the ron ores, minerals and metallic or other products, and for such purposes to make and execute all necessary and proper works, and to do all necessary and proper acts and erect and maintain all suitable furnaces, forges, mills, engines houses and buildings, and if necessary, to acquire any patent privileges or by assignment, license or otherwise, the right to use any patent invention connected with the purposes aforesaid, and to take or lease or otherwise acquire any lands or other property, and the company may sell and convey the same or any part thereof by deed or deeds with the usual covenants.

(d) To construct and make, purchase, hold or lease, alter and maintain and operate any railroads, tramways or other roads, barges, vessels, ships and steamers for the public conveyance of passengers and goods, and for the transportation of coal, iron ores, limestone and any other minerals and metallic substances or products, manufactured and unmanufactured, from and

DOMINION IRON AND STEEL CO.—Continued.

to the mines of the company or from and to any other mines to any place of transhipment or elsewhere, and to do all other business necessary and usually performed on the same.

(e) To construct harbors, breakwaters and bridges, and to purchase or hire, build, construct or erect wharves, docks, piers and machinery, and acquire such land and land covered with water, as may from time to time appear expedient.

(f) To construct, purchase, operate and maintain or lease, telephone and telegraph lines for the use of the company only, to manufacture and sell gas of every kind and description, and electricity for the use of the company only.

(g) To construct, maintain or contribute towards the construction and maintenance of houses, churches, schools, hospitals and other buildings for the use and benefit of the workmen and others from time to time employed by the company or dwelling upon its property.

(h) To manufacture steel and iron in every branch, and any articles consisting of iron or steel in whole or in part.

(i) To let or sub-let for building, mining or any other purpose, any property, and to give and grant any rights, licenses, easements or privileges.

(j) To acquire the good will of any business within the objects of this company, and any real or personal property, privileges, rights and contracts appertaining to the same, and in connection with any such purchase to undertake the liabilities of any company, association, partnership or person.

(k) To sell, lease or otherwise dispose of the whole or any branch or part of the business, property or franchises of the company to any other iron, steel or coal company, or any other company or companies carrying on or formed for the purpose of carrying out any object similar to any of those of the company hereby incorporated, and this company is hereby authorized and empowered to make such sale, lease or disposal of the whole or any branch or part of its business or property only upon the vote of two-thirds of the shares of this company.

(l) To acquire by original subscription or otherwise, and to hold, sell, mortgage or otherwise dispose of shares, stocks, whether common or preferred, debentures, debenture stocks, bonds and other obligations of any company carrying on or formed for carrying on any trade or business within the objects of this company.

(m) To apply from time to time any part of the funds, stock, whether common or preferred, bonds, debentures and other obligations of the company for any purpose of the company.

(n) When authorized by a three-fourths vote of the shares of this company, this company is hereby empowered to purchase, lease or otherwise acquire, hold and enjoy all the property, franchises, rights and privileges held or enjoyed by any iron, steel or coal company, or any company or companies

DOMINION IRON AND STEEL CO.—Continued.

carrying or formed for carrying on any business similar to that which this company is authorized to carry on under the provisions of its charter or otherwise; and such other iron, steel or coal company so selling to this company is hereby authorized and empowered by vote of three-fourths of its shares to sell, mortgage, lease or otherwise dispose of such property, franchises, rights or privileges unto this company as fully and effectually as if the said iron, steel or coal company or other companies were empowered so to do by a special Act of the Legislature of the Province of Nova Scotia. Said property, rights, franchises and privileges, when purchased, leased or otherwise acquired as above stated, shall be owned and enjoyed by this company as fully and effectually as the same were theretofore held and enjoyed by the company from which the same were so purchased, leased or otherwise acquired subject to all existing valid liens and charges.

(o) To purchase, hire, construct or manufacture for use in connection with any business of the company, and to use and operate any ships, barges, rolling stock, machinery or plant; provided, however, that nothing in this Act or in the charter or franchises of any company that may be acquired by this company shall authorize or empower the company to carry on a general business in dry goods, groceries and other general merchandise.

DOMINION MINERAL CO., Limited.

Incorporated 16th April, 1889. Authorized Capital, $100,000. By a supplementary Act assented to 24th April, 1890, the capital stock may be increased by the board of directors from time to time, to the sum in all of $500,000, in shares of $100 each, provided that the authorization and consent of all the shareholders of the Company are previously obtained, either by their unanimous vote at a special general meeting duly called and held for that purpose, or by an instrument in writing to that effect executed by all the shareholders.

Directors:

John M. McIntyre, Montreal, President.

James Worthington, Toronto. | D. L. Lockerby, Montreal.
Wm. C. McIntyre, Montreal. | John Ferguson, North Bay.

Henry Cutt, Secretary, 157 St. James Street, Montreal.

Head Office: Sudbury, Ontario.

This Company owns certain mineral lands in the Township of Blezard, Drury and Denison, in the Mining District of Algoma, in the Province of Ontario. Mining operations for copper and nickel were begun in the fall of

DOMINION MINERAL CO.—Continued.

1889. The equipment comprises :—Boilers, one 90 h. p. and one 60 h.p ; Ingersoll compressor and drills; Worthington & Knowles pumps; two Copeland & Bacon hoisting engines ; Marsden rock-breaker ; also equipped with complete lighting plant furnished by Edision Electric Co. Herreshoff smelters (2), of a 100 to 125 tons per 24 hours. Mines, 25 miles from the Town of Sudbury on the line of the Canadian Pacific Railway, connected by branch line. These works, owing to the death of one of the principal shareholders, have been closed for five years.

DOMINION MINING, DEVELOPMENT & AGENCY CO., Limited.

Registered 17th December, 1896. Authorized Capital, £100,000, in 100,000 shares of £1 each.

Directors :

Edward Hart, Chairman.

Sir Francis Blackwood, Bart.
Jas. Halcrow.
Capt. R. B. Needham, R.N.
P. H. Pridham-Wippell, J.P.
Maj.-Gen. E. H. Steward, C.M.G.

C. K. Milbourne (Managing Director in British Columbia).

Head Office: Walter Smith, Secretary, Moorgate Station Chambers, London, E.C.

CANADIAN OFFICE:
Charles K. Milbourne, Nelson, B.C.

Formed to acquire and deal in mining properties and options, chiefly in British Columbia, and other parts of Canada.

DIRECTORS' REPORT, 1898.

(Submitted 29th November, 1898.)

The Directors have much pleasure in presenting herewith the audited accounts from the commencement of the Company operations to the 30th June, 1898, by which it will be seen that the very handsome profit of £27,991 11s. 1d. has been earned.

When the smallness of the capital employed, and the unfavourable condition of the markets during most of the period under review is taken into consideration, your Directors feel assured that the shareholders will be as satisfied with the result as they are. Owing to the unavoidable delay which had to take place in getting over the detailed accounts from British

DOMINION MINING, DEV. & AGENCY CO—Continued.

Columbia for audit, your Directors decided to distribute the above profit amongst the shareholders, and accordingly in July last a dividend of 50 per cent. was distributed in fully-paid shares of the Queen Bess Proprietary Company, Limited.

The shareholders are therefore asked to confirm the distribution of the above profits as follows :—

Dividend of 50 per cent. on £53,276, being the amount paid up on Capital Account on 15th July, 1898.....	£26,638 0 0
Payment to the Directors of the 5 per cent. on same due to them under Article 91.....	1,332 0 0
Balance to be carried forward.....	21 11 1
	£27,991 11 1

QUEEN BESS PROPRIETARY COMPANY, LIMITED.

This group, one of the best known in the Slocan district, was acquired in September, 1897, and in the following month a company under the above name was successfully floated, and started with a full working Capital in cash of £15,000.

A large amount of development work has since been done, showing the most satisfactory results.

Arrangements have now been made for shipments throughout the winter on a large scale, and your Directors have every reason to believe that the payment of dividends will commence during the first quarter of 1899.

PYRAMID COPPER SYNDICATE, LIMITED.

In March, 1898, a company was floated with a capital of £20,000 under the above title to acquire and develop a group of claims, comprising some 800 acres in the East Kootenay division. In this Syndicate your Company holds 5,250 shares of £1 each.

Development work has been steadily pursued during the summer, and will be continued during the winter. Reports received from the Engineer in charge continue of a very satisfactory nature, and your Directors have reason to feel sanguine as to the results.

MINING PROPERTIES UNDER DEVELOPMENT.

It is impossible to enter fully in this report into the details of the numerous other mining properties acquired, all of which are in various stages of development, and some of which have already so far advanced as to prove their undoubted value ; among these may specially be mentioned the "Pitt Lake," a valuable copper property situated most advantageously on the lake of that name. Development upon this property has proceeded vigorously during the past season, a force of 18 to 20 men having been continuously

DOMINION MINING, DEV. & AGENCY CO.—Continued.

employed. A good deal of high grade copper ore has been exposed, running from 3 per cent. to 21 per cent., exclusive of gold and silver values. It is hoped that the property will be sufficiently developed to justify the formation of a subsidiary company at an early date.

REAL ESTATE.

The Company has acquired real estate, of considerable value, comprising freehold house property in Nelson, and freehold land of about 340 acres, with licensed hotel thereon, in the Boundary district, through which the branch line of the Canadian Pacific Railway is now in course of construction.

WATER POWERS.

A special charter has been obtained from the Provincial Government of British Columbia for the water rights on the Kettle River at Cascade, and special rights to supply power, electricity, &c., within a radius of 40 miles of Grand Forks. This water right is considered by experts as the most valuable water power in British Columbia. Within the radius are situated some of the most important mining centres in the Province, including the City of Rossland and the various camps round Greenwood City. In these camps there is already a large and rapidly increasing market for Motive Power, both in the form of Electricity and Compressed Air.

Since the date of the Balance Sheet, the Company has further acquired options on several other valuable water rights, and has entered into an agreement for the sole use, in British Columbia, of Taylor's Air Compressor. This invention is the simplest, most economical and efficient method of manufacturing and transmitting power by means of compressed air ever yet discovered. This compressor, in conjunction with the above water powers, forms the basis of a General Power Company now in course of formation, full particulars of which will be forwarded to shareholders in due course.

REINDEER-SKIN CONTRACT.

A contract has been entered into for the sole supply of Reindeer-skin coats, sleeping bags, &c., to this Company, and an expedition has been fitted out, and has already arrived at Dawson City with the first consignment. Reports have been received which indicate an immediate and very profitable sale of the goods.

It is hoped that a permanent trading business with Dawson City has been established thereby, both in the above articles and in general merchandise.

PLACER GOLD PROPERTY, ATLIN LAKE, B.C.

The Company's Agent, who is the leader of the Reindeer Skin Expedition, reports by letter of October 28th that he has been fortunate enough to acquire a one-half interest in 30 alluvial gold Claims of 80 acres each,

DOMINION MINING, DEV. & AGENCY CO.—Continued.

amounting to 2,400 acres in all. He describes the property as beautifully rich gravel lying between Pine and Spruce Creeks, admirably adapted to treatment by hydraulics at a very small cost. He speaks of the Atlin district "as extraordinarily rich, gold is everywhere, and I believe the land we "have staked out being the lowest ground, is the richest part of it. There "will be a tremendous rush there next year. Every soul in Skagway and "Dyea is going up, and already contracts have been made there for seven "steamers to run from Bennett." He also states that his partners control the water site which is indispensable for hydraulic working. Work may be commenced early in the spring, and will yield immediate returns.

The following is a complete list of the company's properties at the date of this report :—

REAL ESTATE—

Lots 8, 9, 10, 11 and 12, Block 44a, and company's house standing thereon, Nelson, B.C.

Lots 3 and 4, Block 93, Nelson, B.C.

Edwards ranche—343 acres.

CASCADE PROPERTY—

Sundry lands and water rights purchased from the Cascade Water Power and Light Company.

Charter of the same company.

Water record for 65,000 inches of water from Kettle River.

Option on smelting site, north of the river.

OPTION AT WARD'S CROSSING—

Option on 166 acres of valuable land at Ward's, Kootenay River, B.C.

OPTION ON TAYLOR AIR COMPRESSOR PATENTS.

SHARES IN INDUSTRIAL COMPANIES—

110 shares of $10 per share in Imperial Brewing Company.

5,000 shares of $1 per share in Kaslo Electric Light Company.

SHARES IN MINING COMPANIES—

17,447 shares of £1 each in Queen Bess Proprietary Company, Limited.

3,478 shares (10/-paid) in Klondyke Hydraulic, Limited.

5,250 shares in Pyramid Copper Syndicate, Limited.

MINING PROPERTIES—

All in various stages of development :—

"Cromwell" and "Champion."—Two copper properties situated on Pitt Lake, near Vancouver. ⅔ interest.

"Rocket" and "O.K."—An option has been obtained upon these two properties which are extensions of above.

"I.C" group.—Two silver-lead claims, known as "I.C" and "Vancouver," situated in the Slocan District of West Kootenay. ¾ interest.

DOMINION MINING, DEV. & AGENCY CO.—Continued.

"Bee" and "Klondyke."—Two gold claims on east side of Kootenay Lake. ¾ interest.

"Hillside" and "Toney."—Two full claims, situate near Rock Creek, between Midway and Fairview. Whole interest.

"M. and M."—A gold claim situated on Wild Horse Creek. Whole interest.

"Alice," "Romance" and "Condor."—Three copper and gold claims, situated on Hall Creek, West Kootenay. ½ interest.

"Victoria."—A full claim about 1¼ miles from mouth of Granite Creek. Whole interest.

"Strayhorse," "Wallace" and "Lake View."—Three full claims, situated in the Fairview District. Whole interest.

"Vesuvius."—A gold claim, situated in the Fairview District Whole interest.

"Mikado."—A free-milling gold claim, situated in the Fairview District, an extension of and adjoining the "Tinhorn." ½ interest.

"Hubbard."—A gold and copper claim, near Christina Lake. ½ interest.

"Kitto" and "Foxdale."—Two silver lead claims, near "Vancouver" group, on Slocan Lake. Whole interest.

"Golden Calf."
"Little Ted."
"Calumet."
"Chaping."
"Tower."
"Bess."

A group of six claims, situate near 49 Creek, Nelson District. Whole interest.

Placer gold property on Atlin Lake, B. C., 2,400 acres. ½ interest.

It will be seen from the foregoing, that the company has not only done remarkably well in the matter of profits earned during the period under review, but has also laid the foundations for an extensive and profitable business in the future.

BALANCE SHEET—TO 30TH JUNE, 1898.

Dr.

LIABILITIES.

	£ s. d.	£ s. d.
Nominal Capital, in 100,000 shares of £1 each	100,000 0 0	
Capital issued	50,000 0 0	
Less unpaid calls	3,754 0 0	
		46,246 0 0
Sundry creditors and bills payable		929 11 2
Profit and Loss account		27,991 11 1
		£75,167 2 3

DOMINION MINING, DEV. & AGENCY CO.—Continued.

Cr.

ASSETS.

	£	s.	d.
Purchase Account—			
Paid by the issue of 10,000 fully paid shares	10,000	0	0
Cash at bankers and in hand	1,025	4	2
Office Furniture	200	0	0
Shares held in other companies	51,422	16	4
Mining properties under development—			
Amounts expended to date	5,068	6	2
Real estate, water power, etc.—			
Amounts expended to date	4,866	4	10
Reindeerskin contract—			
Amount expended on purchase of clothing to date	2,033	15	7
Sundry debtors	550	15	2
	£75,167	2	3

PROFIT AND LOSS ACCOUNT, FROM 8TH MARCH, 1897, TO 30TH JUNE, 1898.

Dr.

	£	s.	d.
Directors' fees	1,462	10	0
Rent, salaries, solicitors' fees, etc.,	508	8	2
Cables, postages, stationery and general expenses	603	0	8
Amounts expended on properties abandoned	1,625	17	11
Loss on exchange	15	15	1
Depreciation on furniture	18	18	4
Balance, being net profit to date	27,991	11	1
	£32,226	1	3

Cr.

	£	s.	d.
Profit in shares on properties dealt with to date	30,552	10	0
Profit on shares sold	81	6	0
Transfer fees	3	0	0
Rents received	8	5	3
Premium received on shares	1,581	0	0
	£32,226	1	3

DOMINION OF CANADA EXPLORING & FINANCE CORPORATION Limited.

Offices: 15 George Street, Mansion House, E.C.

This company was registered on the 1st, February, 1898, to carry on exploring and financial operations. The Authorized Capital is £1,000, in 1,000 shares of £1.

DOUBLE EAGLE MINING AND DEVELOPMENT CO., Limited.

Incorporated 1897. Authorized Capital, $1,000,000.

Directors:

N. F. MacKay. D. J. Young. C. E. Smith.

Office: N. F. MacKay, Kaslo, B.C.

Formed to carry on mining in the Province of British Columbia.

DOUGLAS MICHIPICOTEN SYNDICATE, Limited.

Offices: 31-33 Palmerston Buildings, Old Broad St., London, E.C.

This Syndicate was registered on 10th December, 1897, to acquire mines and property in Canada. The Authorized Capital is £1,250, in shares of £1.

DOUGLAS PINE MINING COMPANY, Limited.

Incorporated, under the Laws of British Columbia, 26th September, 1898.
Authorized Capital, $100,000, in shares of $1.00.

Head Office: Vancouver, B.C.

Formed to purchase, take on lease, or otherwise acquire properties, mines and mineral properties, and also grants, concessions, leases, claims, licenses, easements, or authorities of, and over mines, land, mineral properties, mining, water and other rights in British Columbia or elsewhere, and either absolutely, optionally, or conditionally, and either solely or jointly with others; and in particular to purchase Lot numbered two hundred and seventy-one (271), Range one (1), Coast District, Province of British Columbia, known as the "Douglas Pine" Mineral Claim, and to pay for the same either in cash or in fully paid up shares of the Company.

DRY BELT MINING AND MILLING CO., Limited.

Incorporated 15th December, 1896. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

H. Pitts, President.

Ira W. Black, Vice-President. S. B. Hendee, Secretary-Treasurer.

Head Office: Sandon, B.C.

Owns and is developing the Cordelia mineral claim on the North Fork of Carpenter Creek, about five miles from Three Forks, Slocan Mining District, British Columbia.

DULUTH MINING CO. OF ONTARIO, Limited.

Incorporated 1898. Authorized Capital, $30,000, in shares of $1.00 each.

Directors:

N. J. Upham, Duluth, Minn.	W. McBrady, Port Arthur, Ont.
T. F. Upham " "	U. S. Woodbridge, Duluth, Minn.
J. F. Howenstine " "	C. G. Miller " "

Formed to carry on the business of mining in the Province of Ontario.

DUNCAN EXPLORATION COMPANY OF BRITISH COLUMBIA, Limited.

Head Office: Frank H. Dell, Secretary, 4 Chapels Walk, Manchester, England.

Registered on the 21st September, 1897, to carry on the business of an exploration company in British Columbia. In September, 1897, the company purchased the undertakings of the Duncan Syndicate, Limited, the Mitchell Mine Syndicate, Limited, and in October, 1896, the Duncan Mines, Limited, was floated to acquire the combined undertakings of the two syndicates. The Authorized Capital is £1,000, in 1,000 shares of £1 each.

DUNCAN MINES, Limited.

Registered 1897. Authorized Capital, £150,000, in shares of £1, 75,000 of which were taken by the vendor company as fully paid and in full satisfaction of the purchase price.

Directors :

Captain E. Ironsides Bax. | Charles E. Shepheard.
Alexander McNab. | Arthur Lodin.
Hammersley Heenan. | Saturnin Maisonnabe.
C. S. Drummond.

British Columbia Board :

Captain T. J. Duncan. C. S. Drummond.

Head Office : 6 Great Winchester Street, London, E.C., Eng'and.

Canadian Office : Nelson, British Columbia

Formed for the purpose of carrying on the business of prospecting, development, mining and agency, and acquiring properties in British Columbia and elsewhere. The company has purchased from the Duncan Exploration Company of British Columbia, Limited, a number of mining properties which have been partially developed, and valuable claims and interests, some description of which is given in the appended report of Mr. C. S. Drummoud :—

WILD HORSE CREEK PROPERTIES.

"*The Wren.*"—This mine is situated on the north side of the south fork of the "Wild Horse Creek," and about half a mile up from its junction with the main creek ; in this distance the fall of the creek is about 500 feet. The mine is distant from Nelson about 15 miles by rail to "Ymir," and thence by an almost level grade, 3½ miles to the junction of the creek ; the ascent to the mine is not difficult. The vein at the outcrop is about 30 feet wide, and the pay chute at the same place about 8 feet wide. The angle up the mountain side from the tunnel mouth is about 60 degrees. The assays showed the surface croppings to contain $5.58; these improved to $14.26, $19.42 in tunnels, and concentrated 4 to 1, gave $71.93, ordinary machinery concentrates 8 to 1, the result will be about $150 in gold per eight tons of rock. There is an immense body of this ore. Since this claim was located a great many others have been staked all round. The water power on the property I estimate at several thousand h.p., and, even at the lowest stage of the water, more than sufficient to drive 60-head of stamps.

The "*Calumet*" is the adjoining property, the creek dividing them, and I feel certain that the "Wren" vein follows through this property. At the present time we are using the claim as a dumping ground for the ore coming

DUNCAN MINES—Continued.

from the "Wren" tunnel. Captain Duncan suggests that we should sink a winze in the "Wren" tunnel, and drift from it under the creek through the "Calumet;" but that is a matter for later consideration. As in the "Wren," the direction of the "Calumet" vein is north-east and south-west.

Nothing has been done in the way of development on this claim up to the present time. Captain Duncan hopes to get the Government to allow the work being done on the "Wren" to count as also on the "Calumet," and there is no doubt that this will be allowed.

The Little "George" is high up the mountain side, in the same valley as the two former claims, but about 1½ miles nearer "Ymir" town. The full returns and reports have not yet come to hand in this case, but the samples from the surface assayed $26.10 per ton in gold. The vein as far as has been prospected, varies from 2 feet to 25 feet in width.

Captain Duncan would have sent us the report on the property before now, had not his men been driven out by a sudden flow of water, which took some time to divert. When this happened he was cross-cutting to reach the vein, preferring to tunnel rather than to sink a shaft, and the wisdom of his course was proved in a practical although unpleasant way. $26.10 seems a very large return for surface assay.

BEAR CREEK PROPERTIES.

The "Planet," "Comet" and "Rocket" are situate in the valley of the "Bear Creek," which is on the other side of the mountain, and to the south from the "Wild Horse Valley." Both creeks empty into the Salmon River at and near the Town of Ymir.

Like the "Wild Horse Valley," this valley is easy of access, and the waggon road which we have built up to the mines, is of very easy grade. The "Rocket" claim covers the ground through which flows the "Bear Creek." The "Planet" and "Comet" are up the side of the mountain and adjoining.

Captain Duncan had only just got the waggon road open at the time of writing his last letter received in London, and the supplies and material for the erection of the houses, blacksmiths' shops, etc., will have now reached there.

The vein, as ascertained from the preliminary tests, showed a width of 50 feet, and the assay returns from the "iron capping" showed $3.30 in gold per ton. The ore in this vein shows great similarity to that of the now famous "Le Roi" mine at Rossland, and is of the same quality as that mine was on the surface.

HALL CREEK PROPERTIES.

The "Hall Creek" flows into the Salmon River at a point only 8 miles distant from Nelson, the railway station being called "Hall Siding."

"Alice and Romance."—These claims are situate quite close to the "Fern" mine—(Captain Duncan's mine—previously referred to).

DUNCAN MINES—Continued.

There is a good waggon road up to the "Fern," which we can use; the distance from railway station I should judge to be about 2½ miles.

We have driven three tunnels on these properties, and the assays would seem to justify us in proceeding vigorously. From the first, ore taken out assayed $21.49 in gold, and $17.80 in copper per ton, and since then improvements have been shown. In the second cutting, but on a different ledge, the returns showed an almost pure copper; and in the third drift we have silver-copper ore of great likeness to the ore of the well-known "Hall Mines," which is but a few miles away.

I strongly urge the formation of a subsidiary company to work these two claims. Our syndicate holds a half interest in these properties, and the Dominion Mining, Development and Agency Company, Limited, hold the other half.

The "Condor" is situated near the Hall Siding station, and is a strongly marked true fissure vein. Captain Duncan says that he likes the appearance of the vein, and miners are now at work sinking a shaft on the property It will cost but a small sum—say £40—to ascertain the assay value of this claim. Reports have come in which would indicate that we have a very good property. It is held jointly with the Dominion Mining, Development and Agency Company.

SUMMIT SIDING.

This point is but 5 miles from Nelson, and about 2½ miles from Hall Creek.

The "Catherine" and "Custer" can be seen from the town of Nelson. There has been considerable work done on them. The tunnel is in about 50 feet, and a quantity of ore has been sacked and is ready for shipment as soon as we build the waggon road up to the mine.

The assays of the ore from the properties ran as the tunnel was driven in, $11.16, $14.05, $19.42, $28.99 and $249.69 in gold per ton.

The vein is about an average of 26 inches wide.

This is a property which could very well be sold to some other company for the purpose of working it, our company taking its profits either in cash or shares, or partly in each.

The town lot in "Ymir" is favorably placed for the offices of the company, or can be sold at a good profit at any time.

It must be remembered that the work that has been done on our claims has been accomplished since last June, or say in about three months.

In addition to the above we have options on various properties which look most promising; we are now proving them before binding ourselves to purchase, and have ample time wherein to ascertain their value. Some of these options are over properties which are already paying large dividends.

DUNCAN RIVER CO-OPERATIVE MINING AND DEVELOPMENT CO., Limited.

Incorporated under the Laws of British Columbia, 6th March, 1899.
Authorized Capital, $1,500,000, in shares of a par value of $1.00.

Canadian Office: Rossland, B.C.

Formed to acquire mines and mining rights and to carry on the business of mining in the Province of British Columbia.

DUNDEE GOLD MINING COMPANY, Limited.

Incorporated under the Statutes of British Columbia, 4th December, 1896.
Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Directors:

Charles Dundee. Robert Scott. W. D. Barclay. W. A. Galliher.
Ernest Kennedy. C. F. B. Conybeare. J. L. Parker.

Officers:

Charles Dundee, President.
Ernest Kennedy, Treasurer. Robert Scott, Vice-President.
W. S. Weeks, Secretary.

Head Office: Rossland, B.C.

London Office: Donald Kennedy, 70 Grace Church St., London, E.C.

Owns and is developing the Dundee group of claims, situated between Wild Horse and Porcupine Creeks, tributaries of Salmon River, and one mile from the Nelson and Fort Sheppard Railway, West Kootenay, British Columbia.

DUNDURN GOLD MINING COMPANY, Limited.

Authorized Capital, $1,000,000, in shares of $1.

Directors:

Alex A. Mackenzie. Daniel Twomey. W. L. Mackenzie.

Head Office Rossland, B.C.

Formed to purchase the Dundurn, Kohanee, and Benbow mineral claims in the Trail Creek Mining Division of British Columbia.

DUNNVILLE NATURAL GAS CO.

Incorporated 1891. Authorized Capital, $20,000, in 600 shares of a value of $25.00 each.

Directors:

F. J. Ramsay, President.

J. Brown. | J. Taylor | J. Carmody. | W. F. Haskins.
Dr. G. A. McCallum. | A. Boyle. | J. Mahle. | W. D. Swayze.
T. Armour. | L. A. Congdon.

Head Office: Louis A. Congdon, Secretary, Dunville, Haldimand, Co., Ont.

Formed to bore and drill for natural gas, and supplying the same in the town of Dunnville, Haldimand Co., Province of Ontario. The Secretary writes that at date eight wells have been sunk in the village of Dunnville, yielding approximately about 400,000 ft. of gas per day. The first show of gas was found in the Clinton formation at 612 ft., and this bed yields about one-fifth of the total flow. The second flow was obtained in the white Medina sandstone, between 740 and 752 ft., but the strongest flow came from 747 ft. The boring was continued in the red shale so that it might serve as a drain or pocket to receive any fragment of sand or other rock which might fall into it. When the well was finished the gas showed a pressure of 335 lbs, and the yield was estimated at 150,000 to 200,000 cubic ft. per day, measured with an open flow. A second well was commenced immediately after on the left bank of the Grand River, distant about a mile from the first and bored to a depth of 780 ft. A third and fourth well were afterwards put down. At last report six wells had been completed and the seventh was down about 100 ft. The flow in the fifth and sixth wells was similar to No. I, and larger than either No. II., III. or IV. The well pressure has decreased from 335 lbs. to 250 lbs. The product is consumed for fuel in 100 cooking stoves and about the same number of heating appliances and perhaps 50 lamps or jets. Two miles of pipe line owned. Writing under date of 26th January, 1896, the Secretary says: "The rock pressure does not exceed 200 lbs., and volume of flow is gradually decreasing, being now about 50 per cent. less than three years ago."

EARLY BIRD GOLD MINING CO., Limited

Registered 23rd Feby., 1897. Authorized Capital, $1,000,000, in shares of $1.

CANADIAN OFFICE:

G. A. Pfounder, Manager, Rossland, B.C.

Owns and is developing the Minnie and Primrose Fractions, on Red Mountain, and the Columbia on Lookout Mountain, Trail Creek Mining District, British Columbia.

EASTERN MINING SYNDICATE, Limited.

Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

Major John A. McGillivray, Q.C., Toronto, President.
Alfred Ansley, Toronto, Vice-Pres. Hugh C. McLean, Toronto, Sec.-Treas.
E. L. Sawyer, Toronto, Manager.

Directors:

Hon. Geo. E. Foster, M.P., Ottawa.
W. K. McNaught, Toronto.
Thomas W. Dyas, Toronto.
Henry Cargill, M.P., Walkerton.
J. G. H. Bergeron, M.P., Montreal.
James Sutherland, M.P., Woodstock.
David MacLaren, Ottawa.
Henry Corby, M.P., Belleville.
E. B. Eddy, Hull, Que.
Dr. A. J. Henwood, Brantford.
T. C Casgrain, M.P., Quebec.
Hon. A. A. Macdonald, Charlottetown.
Hugh J. Macdonald, Winnipeg.

Head Office: E. L. Sawyer, Canada Life Building, Toronto, Ont.

This is a development Syndicate, but no information of its operations have been obtained.

EASTERN STAR GOLD MINING CO., Limited.

Registered 30th July, 1896. Authorized Capital, $500,000, in shares of $1.00.

Officers:

J. Quimby, President.
John Little, Vice-President. J, Johnson Nicholles, Secretary.
G. Oscar, Treasurer.

Head Office: J. J. Nicholles, Secretary, Spokane, Wash.

CANADIAN OFFICE:

Rossland. W. B. Townsend, Attorney.

Owns and is developing the Falow mineral claim, located about six miles from Rossland, British Columbia.

EASTERN TOWNSHIPS CHROME IRON MINING AND MILLING CO., Limited.

Incorporated in the Province of Quebec, 18th July, 1898. Authorized Capital, $50,000, in shares of $1.00.

Officers:

Cuthbert Chenevert, M.P.P., President.

Edward Cavanagh, 1st Vice-President | R. Prefontaine, M.P., 2nd Vice-Pres.
Joseph R. Fair, Treasurer. | Chas. Nelson, Manager and Sec.

Directors:

Hon. J. E. Robidoux. Col. Chas. King. A. Brosnam.
R. K. Thomas. Gaston Legrand.

Head Office: 174 St. James St., Montreal.

Mines Office: Chrome Siding, Quebec Central Ry., near Black Lake, Que.

Formed to carry on the business of a mining, milling, concentrating and development company.

EAST KOOTENAY AND ELK RIVER DEVELOPMENT & EXPLORATION CO., Limited.

Incorporated 11th March, 1897. Authorized Capital, $75,000, in shares of a par value of 25 cents.

Directors:

John Linchany. George K. Leeson. J. L. G. Abbott. W. R. Hall.

Head Office: Fort Steele, B.C., J. L. G. Abbott, Secretary, Rossland, B.C.

EAST KOOTENAY CONSOLS, Limited.

Authorized Capital, £150,000, in shares of a par value of £1.

Head Office: 52 New Broad St., London, E.C.

Canadian Office: J. W. R. Young, Fort Steele, B.C.

EAST KOOTENAY EXPLORATION SYNDICATE, Limited.

Registered 9th January, 1892. Authorized Capital, £67,500, in shares of a par value of £1; all the shares have been issued and are fully paid, 65,000 being issued credited as paid. The capital was originally £80,000, but was reduced to its present amount in November, 1892, by cancelling 12,500 shares.

Directors:

D. C. Griffith. Major-General E. H. Steward. W. S. Ferguson.

Head Office: F. J. Warner, 358 Mansion House Chambers, London, E.C.

The company owns four blocks of gold bearing gravel, situated on the Wild Horse Creek, in the Kootenay District, British Columbia.

EAST KOOTENAY MINING AND DEVELOPMENT CO., Limited.

Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Directors:

George S. McCarter. Thomas W. Jackson. Samuel Barber.

Head Office: Golden, B.C.

EAST LE ROI MINING COMPANY, Limited.

Registered in British Columbia, 8th July, 1898. Authorized Capital, £500,000, in 500,000 shares of £1 each.

Head Office: 15 Austin Friars, London England.

Canadian Office: E. Durant, Rossland, B.C.

EAST ST. LOUIS GOLD MINING CO., Limited.

Incorporated 22nd January, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Canadian Office: Rossland, B.C.

Owns the East St. Louis mineral claim, located on the south slope of Deer Park Mountain, 2½ miles south of Rossland, British Columbia.

ECHO MINING AND MILLING CO., Limited.

Authorized Capital, $250,000, in shares of a par value of $1.00.

Officers:

W. P. Dickson, President.
W. R. Allen, Vice-President. W. F. Whellams, Secretary-Treasurer.

Directors:

W. P. Dickson. W. R. Allan. W. F. Whellams. James Waugh.
E. Dedolph.

Head Office: Kaslo, B.C.

Mine Office: Whitewater, B.C.

Owns and is developing three mineral claims, located at the head of Jackson Basin, Slocan Mining Division, British Columbia. Opened by three tunnels, 200 ft., 100 ft. and 100 ft. respectively, and one shaft down 20 ft. Small force employed in 1898.

ECONOMIC GOLD & NICKEL PYRITIC SMELTING CO., OF SUDBURY, Limited.

Incorporated 14th April, 1897. Authorized Capital, $300,000, in shares of $1.00 each.

Directors:

J. B. Klock, Cameron, Ont. | J. D. MacDonald, Sudbury, Ont.
T. M. Kirkwood, Sudbury, Ont. | R. U. De Morest, Sudbury, Ont.
Rinaldo McConnell, Mattawa, Ont.

ECUADOR-McKINNEY MINING CO., Limited.

Incorporated under the Laws of British Columbia, 10th March, 1899. Authorized Capital, $100,000, in shares of a par value of 10 cents.

Officers:

John Flett, President.
R. L. Patterson, 1st Vice-President. Henry Lowndes, 2nd Vice-President.
Hiram Kiteley, Secretary-Treasurer.

Directors:

John Flett. | R. L. Patterson.
Dr. E. H. Horsey. | Chas. K. Hagedorn.
Henry Lowndes. | J. A. Currie.
Fred Diver | Dr. C. P. Sylvester..

Head Office: H. Kiteley, Secretary, Toronto.

Mines Office: Camp McKinney, B.C.

Owns and is developing the Ecuador mineral claims at Camp McKinney, British Columbia.

EDEY GOLD MINING CO. OF OTTAWA, Limited.

Incorporated April 13th, 1899. Authorized Capital, $999,000, in shares of $1.00 each.

Directors:

M. C. Edey, Ottawa, Ont. | Jas. Davidson, Ottawa, Ont.
Wm. McGillivray, Ottawa, Ont. | Geo. H. Rogers, Ottawa, Ont.
R. W. Edey, Pontiac, Que.

Head Office: Ottawa, Ont.

Formed to carry on in all their branches the operations of a mining, milling, reduction and development company.

EDGAR GOLD MINING AND SMELTING CO., Limited.

Incorporated 30th May, 1897. Authorized Capital, $1,500,000 in shares of $1.00.

Officers:

Isaac Harris, President.
Geo. H. Green, Vice-Pres. and Gen. Manager.
Edgar A. Green, Sec.-Treas.

Directors:

F. Brown. W. T. Hall. G. H. Green, E. A. Green. L. Harris.

Canadian Office: Rossland, B.C.

Owns and is developing the Esmeralda, Edgar and Medina mineral claims, on Deer Park Mountain, 1 mile south of Rossland, British Columbia.

ELARTON SALT WORKS CO., Limited.

Incorporated 2nd July, 1895. Authorized Capital, $10,000, in 100 shares of a par value of $100 each.

Head Office: T. G. Morris, Sec.-Treas., Warwick West, Ont.

The company owns and operates a property 7 9-10 acres in extent, and known as the north-east corner of the east half of Lot 6, in the 3rd Concession, Township of Warwick, Lambton County, Ontario. Depth of wells 1,200 feet. Annual output about 1,000 tons.

ELDON GOLD AND SILVER MINING CO., Limited.

Registered in British Columbia, 12th November, 1896. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers :

J. M. Rex, President and Gen. Manager.
J. H. Griffith, Vice-President. W. D. Scott, Sec.-Treas.
Wm. Goodwin, Superintendent.

Head Office : 315 Rookery, Spokane, Wash.

Canadian Office : Kaslo, B.C.

Owns and is developing the Ecton and Eldon mineral claims, located 1½ miles north of Wellington Siding, on the K. & S. R'y., 20 miles west from the Town of Kaslo, British Columbia.

ELDORADO PLACER GOLD MINING CO., Limited.

Incorporated 19th February, 1897. Authorized Capital, $200,000, in shares of a par value of $1.00.

Directors :

B. Douglas. R. A. Lambert. F. S. Taggart.

Head Office: R. A. Lambert, Managing Director, Vancouver, B.C.

Formed to acquire and work the Double L. placer claim, situated on Cayoose Creek, about 8 miles from the Town of Lillooet, Province of British Columbia.

ELKHORN SILVER MINING CO., Limited.

Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Directors :

Chester Glass.
W. R. Winstead. | C. F. Caldwell.
J. W. Stewart. | Bruno Stelzer.

Head Office : Spokane, Wash.

Mine Office : W. R. Winstead, Whitewater, B.C.

Owns and is developing the Elkhorn, Little Ralph, Breslau and the Hustler mineral claims adjacent to the Whitewater mine, Slocan Mining Division, British Columbia.

ELLEN SILVER MINING COMPANY, Limited.

Re-registered under the Laws of British Columbia, 24th January, 1898. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

Frank Hogan, President.
F. J. Walker, Vice-President. C. F. Clough, Spokane.

Head Office: C. F. Clough, Spokane, Wash.

CANADIAN OFFICE:
Rossland, B.C., C. O'Brian Reddin, Attorney.

Owns and is developing the Ellen mineral claim near Ainsworth, British Columbia.

ELZEVIR MINING AND DEVELOPMENT CO., Limited.

Incorporated 1898. Authorized Capital, $199,000, in shares of 25 cents each.

Directors:

J. E. Thompson, Toronto, Ont. | W. Fahey, Toronto, Ont.
D. W. Livingstone, Toronto, Ont. | M. D. Boyd, Toronto, Ont.
L. W. Claxton, Toronto, Ont.

Formed to carry on in all its branches the operations of a mining, milling, reduction and development company.

EMPIRE MINING AND MILLING CO., Limited.

Incorporated 16th January, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Directors:

Thomas Anderson. Thos. P. Long. C. J. Campbell.

Head Office: Rossland, B.C.

Formed to acquire and work the Empire mineral claim, situated near Grand Forks, in the Province of British Columbia.

EMPRESS GOLD MINING COMPANY, Limited.

Authorized Capital, $1,000,000, in shares of a par value of $1.

Directors :

Hon. E. Dewdney. | A. J. McLellan. | J. T. Bethune.
L. Goodacre. | A. K. Munroe. | J. W. Coburn.
James A. Fraser.

Head Office : J. T. Bethune, Secretary, 30 Broad St., Victoria, B.C.

Formed to acquire and work the Empress mineral claim, located in the Trail Creek Mining Division, British Columbia.

EMPRESS OF INDIA MINING COMPANY, Limited.

Incorporated under the Laws of British Columbia, 23rd March, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Directors :

E. E. Rand. D. S. Curtis. George Adams.

Head Office : New Westminster, B.C.

Formed to acquire and work the Empress mineral claim, located on Porcupine Creek, Nelson Mining Division of British Columbia.

EMU MINING SYNDICATE, Limited.

Registered 28th February, 1896. Authorized Capital, £10,000, in 1,000 shares of £10 each ; 600 shares have been issued, 294 being credited as fully paid, and 306 having £7 10s. per share called up.

Directors :

MacI. MacIver Campbell. E. Hall. A. C. McInnes. J. Orde.
C. W. P. Slade.

Head Office : E. Baker, 29 Cornhill, London, E.C.

Formed to carry on business as explorers, prospectors, company promoters, &c. The Syndicate has acquired certain mining claims in the West Kootenay District of British Columbia.

ENGLISH & FRENCH GOLD MINING CO., Limited.

Incorporated 1896. Authorized Capital, $2,000,000, in shares of a par value of $1.00.

Directors:

O. Omon. J. Gelinas. A. Dorais. Wm. Dorais. Wm. O'Neill. J. E. Proebstal. Chas. Hay. N. McCallum.

Head Office: Grand Forks, B.C.

Formed to acquire and work the Napoleon Buonapart, Cleopatra, Mark Anthony, May Flower, Grand Forks Belle, Bonanza and Bess mineral claims, located at Brown's Camp, on the North Fork of Kettle River, Kettle River Mining Division, British Columbia.

ENGLISH CANADIAN COMPANY, Limited.

Authorized Capital, £400,000, divided into 400,000 shares of £1 or £5 each; of which 75,000 shares are held as working capital.

Directors:

Walter Morsehead. Adam Hay Anderson. Alex. H. Mortimer. Wm. E. Pearson.

Advisory Board in Canada.

Col. W. W. D. Turner. W. J. Harris. H. S. Wallace.

Head Office: George S. Hayne, 5 The Sanctuary, Westminster, London, S.W.

CANADIAN OFFICE:
W. J. Harris, Rossland, B.C.

This company has been formed to purchase and consolidate the following properties: The Lilly May and Lilly May fraction, Edna, Jennie, S. & C., J. & J., A. B. C., First Clip, Sydney, Early Morn, Mountain Lyon, Sea Gull, Philadelphia, Roman Eagle, London Belle, Monterey, Bobolink, and Vancouver, and the following fractions: Mountain Lion, Gopher, Homestake, S. & C., Gull's Egg, all located in the Rossland Camp, within two miles of Rossland, B.C. Also the following properties near Juneau, Alaska: The Emma M., Despondent, and Tenderfoot, and the following placer properties: No. 51, above Discovery on Bonanza Creek, and the Buckley property of 20 acres on Bonanza Bar, Forty-Mile Creek. Also one-half of the number of all properties located by an expedition of five men, who were despatched by this company last May to explore and locate properties in the Tanana River District, Alaska, having been fitted out with a house-boat and all necessary tools, etc., and sufficient supplies for lasting two years.

ENTERPRISE (BRITISH COLUMBIA) MINES, Limited.

Registered 15th May, 1899. Authorized Capital, £150,000, in shares of £1.

Canadian Office: Nelson, B.C.

Formed to acquire the whole or any part of, or interest in the Enterprise Mines, situated on Ten Mile Creek, in the Slocan Mining Division of West Kootenay, British Columbia, comprising two claims and a fraction of a claim known as the Enterprise, Slocan Queen, and Enterprise fraction and with a view thereto to adopt an agreement between the London and British Columbia Gold Fields, Limited, of the one part and this company of the other part, and to develop and work the said properties. The following is excerpted from a report on the property made by Mr. J. D. Kendal, M.E., (Messrs. Bewick, Moreing & Co.):—

The mine is situated at altitudes ranging from about 4,600 ft. to about 5,500 ft., and is connected with the Canadian Pacific Railway system by means of a waggon road (alongside Ten Mile Creek) eight miles in length and terminating in a loading wharf by the side of Slocan Lake. Snow being on the ground at the time of our inspection we were unable to make a complete perambulation of the properties. So far as we could see, however, the claims are underlain by granite of different kinds. Only one mineral vein is yet known. It bears N. 30, E. and S. 30 W. (magnetic) and hades to the south-east at an angle of about 75 deg. with the horizon. The foot-wall rock is mainly granite containing numerous large crystals of felspar. The hanging-wall rock is also granite, but much finer grained than that of the foot-wall and much more micaceous. The vein is clearly on the line of a dislocation, as shown by the dissimilarity of the rocks on opposite sides of it and the numerous slickensides that have been produced on the walls. The ores occurring in the vein are argentiferous galena and blende in about equal quantities mixed irregularly with quartz in the ratio of about one of the metallic mineral to two of quartz. Including quartz, the vein varies in thickness from 1 in. to 18 in. Exclusive of quartz, the galena and blende form together a rib which has an average thickness of 3 in. in No. 2 tunnel, 3.95 in. in No. 3, 2.9 in. in No. 4, and 2 in. in No. 5. No 1 tunnel has only been driven 24 ft. It is on the vein from the start, the average width of the ore being 1.3 in.

Work Done on the Vein.—Five tunnels, numbered 1, 2, 3, 4, and 5, have been driven along the vein at different levels by which the ore has been partly laid open for a vertical depth of about 700 ft. Not much stoping has been done, work hitherto having been mainly confined to development.

ENTERPRISE (B.C.) MINES—Continued.

The inner end of No. 4 tunnel is at present in troubled ground and the vein lost, but we are satisfied it can easily be recovered by driving a little to the south-east of the present workings.

Quantity and Quality of Ore Worked.—To the 5th of November, 1898, about 2,000 tons of ore had been raised, and 1,438 tons shipped from the mine. The average metallic yield of the first shipment (1,054 tons) of this ore, as deduced from the smelter returns, was: Silver, 177.3 oz. per ton; lead 21.97 per cent.; zinc, 21.04 per cent. In August last, 384 tons were shipped, which according to the smelter returns, yielded: Silver, 137.5 oz. per ton; lead, 17.49 per cent. The seeming inferiority of this shipment as compared with the previous one is due almost entirely to the less careful dressing, as shown by the reduced percentage of lead. The silver and lead ratio do not differ more than might be expected. Had the latter shipment been dressed so that the lead contents had been 21.97 per cent. like the former, the silver yield would have been 174.57 oz. per ton, so that the second shipment of ore was very nearly as good as the first, there being only about 2.73 oz. of silver per ton difference in favour of the former. The balance of the ore worked (about 560 tons) is in bin at the wharf by Slocan Lake. The above assays may be taken to fairly represent the quality of the ore still to work so far as it is possible to judge at present.

Ore Blocked Out.—The ground laid open which we consider contains ore in sight that can be estimated at about 7,800 tons of ore ready for stoping at once. The profits that will accrue from the working of this ore, by present methods, we estimate at $445,000.

Cost of Labour, Materials, &c.—Wages range from $2.75 to $3.75 per day net. Mining timber, of which there is abundance, costs 7 cents per lineal foot; dynamite 17 cents per lb.; other supplies at usual prices. The hauling of the ore by waggon was let at $3.25 per ton, including loading on to barges on Slocan Lake. The haulage of supplies from the lake to the mine costs $10 per ton.

Buildings &c., on the Ground.—Bunk houses and dining-room to accommodate ninety men; two ore bins at mine and one at Slocan Lake; three blacksmiths' shops; one assay office; waggon road, eight miles long, to Slocan Lake; mining plant and tools for thirty-five men.

Cost of Working.—The rocks in and adjoining the vein are hard, and therefore somewhat costly to work. On the other hand, very little timber is needed. At present all drilling is done by hand. If machinery were introduced for the performance of this operation the cost of mining would be reduced considerably. With such plant and methods as are now in use the cost of working, at the rate of thirty tons per day, would be as under: Stoping and sorting, $13 per ton; exploration and development, $1.75 per

ENTERPRISE (B.C) MINES—Continued.

ton; haulage to wharf, $3.25 per ton; superintendence, general expenses, and taxes, $2.10 per ton; total cost per ton, $20.10.

Value of the Ore.—The average receipts for the ore already vended (1,438) were $78.75 per ton after deducting duty, freight, treatment, and zinc penalty. The net receipts for the first shipment of 1,054 tons were equal to $89.79 per ton; for the second shipment, $59.45. The reason for this reduced price has already been pointed out. It simply indicates the reduced tenor to which the dressing has been carried.

Amount and Value of Possible Output.—With the present amount of development and method of working an average output of thirty tons per day can be obtained—that is, at the rate of about 10,000 tons per annum. To maintain this output the development must be kept well in advance of the stopes. Taking the net value of the average tenor of ore to be shipped—after deducting duty, freight, treatment, and zinc penalty—at $76 per ton, and the working cost at $21 per ton, the annual profits from working the mine would be $550,000.

Suggested Improvements.—It is highly desirable that air-compressing machinery should be erected so that mechanical drills may be employed throughout the mine, or at least in exploration and development. The ground is much too hard for economical hand-drilling. It may also be necessary to erect a concentrator; but before that is done, a series of careful experiments ought to be made to determine the extent to which the concentration may be carried economically. There is ample water for power and dressing operations in Ten-Mile Creek, which is within a short distance of the mine. The cost of carrying out the above named improvements we estimate at $60,000.

ENTERPRISE GOLD MINING CO., Limited.

Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

C. D. Crites, Lima, Ohio, President.
D. F. Wetzel, Spokane, Wash, Vice-President.
O. B Selfridge, Jr., Lima, Ohio, Secretary.
John Finlay, Lima, Ohio, Treasurer. W. A. Ritchie, Spokane, Manager.

Directors:

C. D. Crites.	O. B Selfridge.	John Finlay.
W. A. Ritchie.	Amos Young.	J. M. Fitzpatrick.

Head Office: O. B. Selfridge, Jr., Secretary, Lima, Ohio.

Canadian Office: Rossland, B.C.

Owns and is developing the Enterprise mineral claim, near Rossland, British Columbia.

EQUITABLE GOLD MINING AND DEVELOPMENT CO., Limited.

Incorporated under the Laws of British Columbia, 16th March, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers :

H. R. Dunlop, President.
J. L. Whitney, Vice-Pres. Leo. H. Schmidt, Sec.-Treas.

Head Office : Rossland, B.C.

Owns and is developing the Kent and Surprise mineral claims 3 miles east of Waterloo, on the Columbia River, British Columbia.

ERIC GOLD MINING CO., Limited

Incorporated 22nd June, 1896. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers :

F. W. Rolt, President.
James Hunter, Vice-Pres. Edward Baillie, Sec.-Treas.

Head Office : Rossland, B.C.

Owns and is developing the Eric mineral claim, on Monte Cristo Mountain, Trail Mining District, British Columbia.

ERIE MINING AND MILLING CO., Limited.

Authorized Capital, $200,000, in shares of a par value of 25 cents.

Directors :

Henry P. Jackson. Marshall Jackson. Colin McArthur.
John McNiven.

Canadian Office: John McNiven, Managing Director, Sandon, B.C.

Formed to purchase the Erie and Minneapolis mineral claims, situate in the Slocan Mining Division of West Kootenay, British Columbia.

ERL SYNDICATE, Limited.

Registered 23rd July, 1896. Authorized Capital, £60,000, in 60,000 shares of £1 each: all the shares have been issued, 30,000 being fully paid, and 30,000 having 12s. 6d. per share called up. The capital, originally £2,000, was increased to £7,000 in February, 1897, and to its present amount, in July, 1897.

Head Office: A. V. Hoffman, Secretary, 11 Throgmorton Avenue, London, E.C.

Canadian Office: Victoria, B.C., R. Lee Brown, Attorney; F. Riffle, Mining Engineer.

Formed to carry on a mining and smelting business.

ETHEL GROUP GOLD MINING CO. OF ROSSLAND, Limited.

Authorized Capital, $1,500,000, in shares of a par value of $1.00.

Directors:

Jos. Fyfe. Edward L. Clarke. Wm. Cumming. John W. Moore.

Head Office: Jos. Fyfe, Sec.-Treas., Rossland, B.C.

Owns and is developing the Ethel No. 1, Ada L., Iron King No. 4, Blue Bell No. 1, Elk No. 1 and Tenderfoot mineral claims, located on the divide between Murphy Creek and the East Fork of Sheep Creek, Trail Creek Mining Division, British Columbia.

EUREKA CONSOLIDATED MINING CO., Limited.

Registered in British Columbia, 14th February, 1898. Authorized Capital, $500,000, in shares of $1.00.

Head Office, Spokane, Wash.

Canadian Office: Ross Thompson, Rossland, B.C.

Owns and is developing the Eureka, Evening and War Eagle No. 2 claims, in the Trail Mining District, British Columbia.

EUSTIS MINING CO.

Directors:

W. E. C. Eustis, Boston, President.
John Blue, Capelton, Que. Hugh Cochrane, Boston.

Head Office: 55 Kilby St., Boston.

Canadian Office: John Blue, C. & M. E., Eustis, Que.

This company owns and operates the Eustis mine, on Lot 9, in the 2nd Range of Ascot, and situate at Capelton Station on the Boston & Maine R'y., Que. The mine was formerly worked by the Orford Nickel and Copper Co., and then by the Orford Copper and Sulphur Co., being transferred to the present owners in 1878. The ore bed is an immense deposit of chalcopyrite, with much iron pyrites, yielding an average of 3 to 4 per cent. copper, some of the ore being very rich, and in addition, contains an appreciable amount of silver; the lode varies in width from 4 to over 50 feet. From numerous assays of the ore the quantity of sulphur averages 45 to 50 per cent. No. 1 shaft 2,500 feet deep, No. 3 2,350 feet, each from surface and measured on incline. The mine was originally opened on the top of the hill, at a height of 600 feet over the Massawippi River. Work was begun, starting from shaft No. 5 and at a level of 500 feet lower, a cross-cut or tunnel 1,000 feet long was run in to strike the lode, the development of which has been continued by means of the two shafts already mentioned, and by leaving standing between them ore masses of 160 to 170 feet. These masses constitute an important reserve, which can be drawn upon and removed at will. Mining work is being carried on by means of compressed air drills, and supports are provided for the mine by leaving pillars and putting up timbers; a single pump keeps down the water. As for the total output of the mine since its first working, it is difficult to estimate it, but it is believed that it cannot be far from 600,000 tons, and for the last fifteen years the annual output has been from 25,000 to 30,000 tons, which is shipped to different points in the United States, for the manufacture of sulphuric acid, for which it is admittedly well adapted. About 150 persons employed. The plant comprises: six boilers with total of 450 h.p.; 2 air compressors (1 Ingersoll, 10 x 30 12 drill, and 1 Rand compound, 14 x 22, 12 drill capacity); 1.. 3-inch steam drills, Deane steam pump, 8 inch cylinder, 3 inch suction, 2 inch discharge (about 4 hours pumping done weekly in mine); 1 Worthington duplex, 6 inch suction, 4 inch discharge, used for pumping water from river to dressing house to supply jigs; 2 winding engines (coupled on same shaft at opposite ends), each 14 inches dia., 26 stroke and 6 foot 6 inch drum; 5 double jigs for small ore, etc.

EVANGELINE GOLD MINING CO., Limited.

Incorporated 1896. Authorized Capital, $125,000.

Directors :

M. Willis. J. G. Martin. George Brackett. G. M. Hamilton.

Head Office : George Brackett, Sec., 229 Congress St., Boston.

Mine Office : Goldenville, Nova Scotia.

Owns and is developing 21 gold areas in the Goldenville District, Province of Nova Scotia.

EVENING STAR MINING CO., Limited.

Re-registered in British Columbia, 18th April, 1898. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers :

D. M. Drumheller, President.

W. H. Smiley, Sec.-Treas. Roy H. Clarke, Superintendent.

Head Office : Spokane, Wash.

Canadian Office : Rossland, B.C.

Owns and is developing the Evening Star mineral claim on Monte Cristo Mountain, Trail Mining District, British Columbia.

EXCELSIOR GOLD MINING CO., Limited.

Authorized Capital, $500,000, in shares of a par value of $1.00.

Directors :

John J. Banfield. J. R. Seymour. Jno. S. Rankin.

Head Office : Vancouver, B.C.

Formed to acquire and work the Excelsior mineral claim, situated in the Lillooet District, British Columbia.

EXCHEQUER GOLD MINING CO., Limited.

Incorporated in British Columbia, 23rd September, 1896. Authorized Capital, $1,000,000, in shares of $1.

Officers:

John Flett, President.
A. H. Kelly, Vice-President and Manager.
James Watt, Treasurer. J. C. Drewry, Secretary.

Mine Office: A. Hart Kelly, Manager, Nelson, B.C.

Eastern Office: James Watt, 64 Yonge Street, Toronto, Ont.

Owns and is developing the Exchequer mineral claim, on Toad Mountain, near Nelson, British Columbia.

EXPLORERS AND TRAVELLERS, Limited.

Registered 14th September, 1897. Authorized Capital, £50,000, in 50,000 shares of £1 each; 6,457 shares have been issued and are fully paid.

Directors:

Harrey De Windt, Chairman. W. S. L. Schuster. T. Shaw Sage.

Head Office: George Elkin, 14 Copthall Avenue, London, E.C.

Formed to acquire and deal with gold mines in British Columbia.

FAIRFIELD EXPLORATION SYNDICATE, Limited.

Registered 13th February, 1897. The capital was £3,000, in shares of £1 each, with power to the Directors to increase without recourse to the shareholders, up to £6,000, but after the company had commenced work it was found that this was too small, and by special resolution of the shareholders at the General Meeting called for the purpose, the amount was increased to £33,000, of which, 27,500 are Ordinary shares, and 5,500 Founders' shares, all of which, except 250 Founders' shares, have been issued. The Directors are authorized to further increase the capital up to £50,000, without again calling the shareholders together for that purpose.

FAIRFIELD EXPLORATION SYNDICATE—Continued.

Directors:

F. M. Woolam, Chairman.

W. L. Wildy. C. H. Kregor. W. H. S. Bell. John Waterson.

Head Office: G. T. Ware, Secretary, Winchester House, Old Broad Street, London, E.C.

Canadian Office: J. J. Lang, Manager, P.O. Box 458, Vancouver, B.C.

Formed to prospect for gold and other minerals on the Continent of North America or elsewhere. At date of report the company owns or holds under option 26 mineral claims, including the Dorotha Morton mine, on Phillips Arm, 120 miles up the coast from Vancouver, British Columbia. The Dorotha Morton mine is situated on the hill directly west of Fanny Bay, a branch of Phillips Arm, at an elevation of 2,600 feet and about 1¼ miles from the mill site on Fanny Bay. In this claim the ledge runs about N. 80° E. (mag.), or nearly with the range of hills, with a dip of about 70° to S., and upon the outcrop some test shafts, etc., were sunk. Satisfied with the results here obtained, the management started a cross-cut tunnel about 100 feet vertically down the steep hillside, and known as No. 1 tunnel. This tunnel, having a general southern course, was run about 44 feet through the country rock, when it cut the hanging-wall of the ledge. Continuing in the same direction, the tunnel cut through the solid quartz ledge for 100 feet, when the hanging-wall of the ledge was reached—a dark granite or porphyry. In thus cross-cutting the ledge it was found by assay that, while the whole ledge was gold-bearing, certain portions of it were much richer than others, the richest rock occurring near the hanging-wall, and forming a well defined "pay streak." Following this "pay streak," drifts were driven to the east and west, along the line of the ledge.

The *East Drift* was in from the tunnel about 300 feet, with cross-cuts occasionally, and at the face was about 200 feet below the surface. This drift, about half way on its course, cuts a 50-foot dyke, which appears to have faulted the lead some 20 feet, but has not affected it otherwise, as the "pay streak" was found on the other side and easily followed.

The *West Drift*, similarly following the "pay streak," has been run 220 feet to the west, on the ledge, when it came to the surface. A smaller diorite dyke was encountered in this, but it was cut and the lead found on the other side, only slightly faulted.

The "pay streak" is visible in these drifts throughout their length, and has a banded structure, due to darker layers of quartz and bands of iron pyrites. The width of this "streak" is averaged at 4 feet 6 inches, and the average assay, as given by Mr. Lang, is $25 in gold—the result of assays

FAIRFIELD EXPLORATION SYNDICATE—Continued.

of samples cut right across the "pay streak" at regular intervals of about 12 feet. Lying next to the "pay streak" and farther from the hanging-wall, is a band of white quartz about 6 feet wide, which has been similarly sampled, and is said by Mr. Lang to carry $10 in gold to the ton. Next to this again is a zone 15 feet wide, which is similarly reported as carrying $5. These values are said to be maintained with remarkable regularity throughout the entire 520 feet of drifts.

The "backs," rendered available by this tunnel and drifts, will average over 100 feet in height, and there is no reason to think that the length is limited by the 520 feet of drifts now driven. The ore taken from these drifts is now on the dump, and will be used for the first few months' run of the new cyanide plant described later.

Regarding No 1 tunnel and its drifts as "development work" only, and feeling justified by the development, Mr. Lang has started a Main or Working Tunnel some 200 feet vertically below No. 1 tunnel, and slightly to the west. It is calculated that this will have to be driven about 520 feet before it cuts the ledge. This work is being pushed ahead with all possible speed, two air drills being used, supplied with air from the mill site at sea level.

Just below the main tunnel large ore bins were being constructed, from which the ore was fed by gravity into the buckets of the Bleichert wire rope tramway, over which the ore is to be conveyed to the cyanide plant on Fanny Bay. The ore now on the dump at No. 1 tunnel will be carried into these ore bins by a short, surface, "back balance" tramway, about completed, and should be sufficient to run the plant until the main tunnel is in operation.

The length of the tramway is about 1¼ miles, the fall in that distance being about 2,100 feet, with a comparatively uniform grade. The buckets, carrying 600 lbs. of ore each, are to be run at intervals of 600 feet, and at the rate of 334 feet per minute, thus delivering about 10 tons per hour. The right of way for the tram has been cleared about 100 feet on either side of the line—no easy matter when trees from 4 to 7 feet in diameter were encountered.

Crusher.—The ore is delivered by the tramway on to a "grizzley," the "fines" going directly into bins, while the "roughs" pass through a Blake crusher, and then into the bins, which are capable of holding about 100 tons of ore.

Stamp Mill.—The ore is fed from the bins, by Challenge feeders, to two 5-stamp Morrison High Speed Mills.

Settling Tanks.—The crushed ore from the stamps is conveyed direct to settling tanks, of which there are three, 20 feet in diameter and 7½ feet deep, provided with distributors to ensure mixing of fine and coarse ore.

Treatment Tanks.—The ore is discharged from the settling tanks, by bottom-discharge openings, into cars, and delivered to any of the six treat-

FAIRFIELD EXPLORATION SYNDICATE—Continued.

ment tanks (also 20 x 7½ feet) situated just below. The ore is here leached by the cyanide solutions, run on for from six to eight days.

Solution Tanks.—The solutions flow over to the three solution tanks (20 feet diam. by 10 feet deep) just below, while the tailings are sluiced away through the bottom of tank to the sea. The gold is precipitated from the cyanide solutions in two boxes provided for the purpose.

The plant is run by a 12 x 18-inch engine, supplied with steam from three 50 horse power locomotive boilers, which also supply the Rand compressor which feeds the drills at the mine.

At date of report 110 persons employed.

OUTPUT GOLD AND SILVER.

1898, December	$3,350
1899, January	6,230
" February	8,120
" March	7,830
To 1st April, 1899	$27,530

The mining plant comprises :—

Boilers—3 50 h.p.

Air Compressors—1 Rand, and 1 Ingersoll-Sergeant.

Pumps—2 Worthington.

Ore Breaker—1 Blake Marsden.

Lighting—Acetyline Gas plant (60 lights).

Bleichart Aerial tramway, &c.

DIRECTORS' REPORT.

(*Second Ordinary General Meeting on 29th December*, 1898.)

"About the time the Syndicate was incorporated your Directors had several mining properties in British Columbia offered to them by a Canadian gentleman, and Mr. Lang left in the early part of March in that year to inspect and report upon them, but his reports being unfavourable, the propositions were allowed to lapse.

Mr. Lang remained in British Columbia visiting from time to time different mining localities and properties which were offered to him, and in the summer of 1897 he examined and submitted a proposition with reference to a mining claim, 1,500 feet by 1,500 feet, containing about fifty one acres, known as the Dorotha Morton, situated on the Pacific Coast of Canada near Bute Inlet, and about one hundred and twenty miles north of Vancouver. A small amount of development work had been done on a neighbouring claim on the same lead which showed favour-

FAIRFIELD EXPLORATION SYNDICATE—Continued.

able results, and a contract was entered into with the owners of the Dorotha Morton, and this Syndicate at once commenced exploratory work to ascertain the value and extent of the mineral deposits. After a few months work on the property Mr. Lang came over to England in the latter part of last year and consulted personally with the Directors, and gave detailed information respecting the locality and property, which convinced your Directors that not only the Dorotha Morton, but a number of claims in the vicinity were very valuable, and would together make a very fine property. The result of the development work has exposed a line of reef about 100 ft. wide, with one paystreak from 4 to 5 ft. wide, beside which runs a seam of white quartz about 4 ft. wide carrying payable gold, thus making the paystreak from 8 to 9 ft. wide, and a smaller one in another part of the reef, about 20 ins. in width. The reef has been proved for a distance of nearly 600 ft. at a depth of from 150 to 200 ft. from the surface, the average of the assays made on the paystreak of the reef running about 18 dwts. to the ton. Further development work is proceeding by putting in a tunnel 200 ft. lower down the Mountain, and this has now advanced a distance of 280 ft. and 220 ft. have still to be driven before the vein is reached. A Ten Stamp Morison High Speed Gravitation Mill, together with an Aerial Ropeway for the transport of the ore from the mine to the mill, and 12 tanks for Cyanide Plant have been erected for the treatment of the ore which is very refractory, the proportion of free milling gold being so small as to render it necessary to treat the whole quantity by cyanide. A cable was received on the 28th November, announcing that the mill had commenced crushing.

"Your Directors have to congratulate you on the work Mr. Lang has, in the face of stupendous difficulties, been able to accomplish towards the development of your property.

"In addition to the Dorotha Morton, 5 other claims on the line of reef have been purchased and title in them has been completed.

"Options have also been secured on 8 other claims making, with one exception, a continuous line to the sea which is distant about 2½ miles from the Dorotha Morton.

"On the Philips Arm Claims on the Sea Coast, which are under option to the Syndicate, a tunnel has been driven about 160 ft. at the Sea Level upon the continuation of the same reef, showing a paysteak 20 ins. wide, reported to be of the value of about 20 dwts. to the ton. Work will be commenced on this as soon as possible to further prove it, and if the property bears out the anticipations of the Manager the purchase will be completed of 4 claims and fractions from the Sea Coast towards the Dorotha Morton and development will be continued.

"Your Directors have in addition acquired some 3 Deep Level claims, and are endeavouring to secure the only remaining claim on the reef and the

FAIRFIELD EXPLORATION SYNDICATE—Continued.

remaining Deep Levels between the Dorotha Morton and the Sea, which will make a continuous line of reef of over 3 miles in length, and they look forward to the development of a most valuable property.

"Buildings.—During Mr. Lang's visit to England a building property in one of the most advantageous business positions in Vancouver was offered to him at a price which was considered reasonable, and the same was subsequently secured for the Syndicate. Further acquisitions in the same neighbourhood enabled the Syndicate to complete a block of 5 stands, on part of which a large business block has been erected. This your Directors are altering and enlarging and making such additions which will nearly cover the entire block of stands, and for this purpose have negotiated a loan of £15,000 on first mortgage for two years at 7 per cent. per annum secured on the above Blocks.

"Before the Building was undertaken your Directors instructed Mr. John Waterson, an experienced architect, to go to Vancouver to consult with and advise the local architect, Mr. Blackmore, and to enquire generally as to the prospects of investment in real estate in Vancouver. His report eing satisfactory, the contract was given out for $76,500, including Architects' fees. Applications for renting portions of the building have already been received, and it is expected that this will prove a very paying investment as the value of the land has considerably increased since its purchase."

BALANCE SHEET, 30TH SEPTEMBER, 1898.

LIABILITIES.

Dr.

To Capital—			
5,500 Founders shares at £1 each.....	£5,500 0 0		
Less—			
250 Founders shares unissued	250 0 0		
5,250		£ 5250 0 0	
27,500 Ordinary shares of £1 each.....		27,500 0 0	
32,750		£32,750 0 0	
To Sundry creditors.....		4,347 19 6	
To Mortgage—			
On Vancouver property		2,500 0 0	
		£39.597 19 6	

FAIRFIELD EXPLORATION SYNDICATE—Continued.

ASSETS.

Cr.

By Properties—At cost—			
Landed properties	£14,779 17 5		
Mining properties	5,758 17 9		
		£20,538 15 2	
By Development—			
Dorotha Morton mine		3,369 10 0	
Sundry debtors		30 2 0	
Machinery and plant	7,308 14 7		
Less depreciation	730 17 6		
		6,577 17 1	
By Live stock		22 6 0	
Tools		1 13 1	
Office fittings, furniture and properties		311 13 2	
By Cash—			
At Bank London	116 8 0		
" Vancouver	2,259 0 3		
		2,375 8 3	
By Profit and loss account		6,370 14 9	
		£39,597 19 6	

PROFIT AND LOSS ACCOUNT FROM MARCH 3RD, 1897, TO SEPT. 30TH, 1898.

Cr.

	Fairfield.	Dorotha Morton.	Total.
To Assays	£ 44 2 10	£ 48 4 1	£ 92 6 11
Directors' fees	385 11 7		385 11 7
Architects' fees	300 0 0		300 0 0
Salary and wages	1,845 18 11	927 9 5	2,773 8 4
Prospecting		341 16 4	341 16 4
Boarding house		248 4 10	248 4 10
Secretarial fees	162 10 0		162 10 0
Office expenses	90 7 3		90 7 3
Travelling expenses	354 6 2	589 17 5	944 3 7
Telegrams, cables and sundries	56 15 8	46 1 5	102 17 1
Insurance, interest, &c.	37 0 2	41 8 2	78 8 4
Legal charges	119 3 2	15 11 1	134 14 3
General expenses	289 11 0	38 10 11	238 1 11
Depreciation of machinery and plant		730 17 6	730 17 6
	£3,685 6 9	£3,028 1 2	£6,713 7 11

Dr.

	Fairfield.	Dorotha Morton.	Total.
By Rent and taxes	£190 12 9		£190 12 9
Exchange	108 0 5		108 0 5
Discount		£ 44 0 0	44 0 0
Balance carried to balance sheet	3,386 13 7	2,984 1 2	6,370 14 9
	£3,685 6 9	£3,028 1 2	£6,713 7 11

FAIRVIEW AND OKANAGAN BIG FOURTEEN GOLD, SILVER AND COPPER MINING AND MILLING CO., Limited.

Incorporated under the Laws of British Columbia, 15th August, 1898. Authorized Capital, $1,500,000, in shares of a par value of $1.00.

Canadian Office: Rossland, B.C.

Formed to carry on mining in British Columbia.

FAIRVIEW CONSOLIDATED GOLD MINES CO. OF FAIRVIEW, Limited.

Re-incorporated 1897. Authorized Capital, $975,000, in shares of $1.00.

Officers:

Hon. J. H. Turner. | Abraham Levy.
C. E. Redfern. | W. E. Boyd.

Directors:

Hon. D. W. Higgins. | A. A. Davidson.
W. A. Dier. | R. Russell.
A. S. Levy.

Offices: Victoria, B.C. and Hamilton, Ont., W. E. Boyd, Secretary.
Mine Office: Fairview, B.C.

Formed to acquire and work the White Swan, Quartz Queen, California, Rob Roy, Sundown, Ocean Wave, Silver Bow, Ironclad, Reco, Fannie Morris, Nightingale and Standard mineral claims at Fairview, Yale District, British Columbia. The "Silver Bow" has a vein running north-east and south-west across the formation, on which a tunnel, after cross-cutting for about 75 feet, runs from 75 to 80 feet along a vein two to three feet wide, and six feet wide in one place, of a very white quartz carrying a very small percentage of sulphides.

Fannie Morris, about one mile south of Fairview, below the road to the "Tinhorn," has a shaft sunk 18 feet, showing considerable decomposed quartz matter with some sulphides.

Nightingale, located N.E. of "Tinhorn," at foot of mountain, where a vein running N., 20 degrees W., of white quartz with iron and copper pyrites and galena, is disclosed for several hundred feet by open cuts and a shaft about 20 feet deep.

FAIRVIEW CON. GOLD MINES CO —Continued.

Reco has an exposure in one place in the granite of rusty weathering quartz two to three feet thick, carrying very little sulphides. It dips N.E. at an angle of 30 degrees, and a shaft has been sunk 30 feet to strike it, but it is not yet deep enough. Work sufficient to secure a Crown grant has been, or is being done on other claims. From the different claims, samples according to the prospectus of the company have given high assay values, but no estimate can yet be formed as to the amount and value of the quartz that may be developed on these claims, as only mill-runs can afford decisive and reliable information. (See Mines Report, B.C., 1897.)

FAIRVIEW CORPORATION, Limited.

Incorporated under the Laws of British Columbia, 7th January, 1899.
Authorized Capital, $1,000,000, in shares of a par value of 25 cents.

Directors:

Richard Russell, Fairview, B.C.
George A. Robinson, Fairview, B.C.
C. N. Davidson, Vancouver, B.C.
A. A. Davidson, Victoria, B.C.
His Honor W. Ward Spinks, Vernon, B.C.
G. H. Levy, Hamilton, Ont.
W. A. Dier, Victoria, B.C.

Officers:

Richard Russell, President and Managing Director.
His Honor Judge Spinks, Vice-Pres. George A. Robinson, Sec.-Treas.

Head Office: Fairview, B.C., J. F. Bleddse, M.E., Manager.

This company has been formed for the purpose of purchasing and consolidating into one corporation the following companies and interests:—

(1) The Tin Horn Quartz Mining Company, Limited.

(2) The Winchester Gold Mines Company of Fairview, B.C., Limited.

(3) The Comstock-Mammoth Quartz Mining and Milling Company of Fairview, B.C., Limited.

(4) The Fairview Power, Water and Telephone Company, Limited, including the water works on the Townsite of Fairview.

(5) The "Orillia," "Reliance," "Black Prince" and "Exchange" mineral properties, all Crown granted.

(6) The Townsite of Fairview (except Government reserve and lots sold to date) comprising 330 acres, more or less.

(7) The "Hotel Fairview," with all furniture and fixtures, situate on the Townsite, also Dier, Davidson & Russell's office.

(8) 400 acres of valuable coal lands, situate about nine miles from Fairview, on the main waggon road from Penticton to Fairview.

FAIRVIEW CORPORATION—Continued.

The amalgamation has been carried out and the corporation now owns all real estate, personal property, machinery, buildings, supplies, etc., of all the above companies, also the "Townsite of Fairview," "Hotel Fairview," "Water Works on Townsite," and the "400 acres of coal lands;" the "Orillia," "Black Prince," "Exchange" and "Reliance" mineral claims and office and furniture. 1,200,000 shares, or about (⅓) of the capital stock of the corporation was placed in the treasury; and a sufficient number of these shares will be sold until the corporation has enough money to thoroughly develop and equip its properties. In addition to the above number of 1,200,000 shares, 200,000 shares have been set aside as security for the payment of a debt of the Tin Horn Company, amounting to $26,774.76, which is the only liability of the corporation, the amount of money in excess of this debt, received from the sale of these 200,000 shares, will be used for additional development work, machinery, etc., as above mentioned.

The Tin Horn Company was incorporated for $200,000, divided into 800,000 shares, at a par value of 25 cents per share. This company owned five properties, viz.: The "Tin Horn," "Big Horn," "Fortune," "Jubilee Fraction" and "Diamond Fraction," which are now the property of the corporation. The shares of this company were sold at 25 cents per share. The machinery and plant were installed on these properties at a cost of over $45,000.00, and the mill is one of the finest in the Dominion. Owing to this company having run out of funds before the development work necessary to supply the mill with ore was done on the properties, operations were temporarily suspended, but it is the intention of the corporation to continue active work.

The Winchester Gold Mines Company was incorporated for $250,000, divided into 1,000,000, at a par value of 25 cents per share, and the shares were sold by the company for 25 cents and over per share. The "Winchester" and "Stemwinder" properties were owned by this company, and are now the property of the corporation. Since the Winchester Company purchased the Stemwinder, over 1,000 feet of work has been done on the property.

The "Stemwinder" is practically three mines in one, as the three large veins can be worked from the same shaft. It is well equipped with facilities for rapid work, comprising a 50 horse power boiler, 4-drill Rand air compressor, steam hoist, air drills, pumps, etc., and vigorous work is constantly being carried on day and night. The machinery, plant and supplies are worth $15,000.00, also the property of the corporation.

The Comstock-Mammoth Company was incorporated for $150,000, divided into 750,000 shares, at a par value of 20 cents per share.

The corporation also holds valuable privileges for general electrical and other purposes. Water rights have been secured in connection with the principal properties, and three different sources have been tapped and are regularly used.

FAIRVIEW GOLD MINING CO., Limited.

Incorporated 1897. Authorized Capital, £100,000, in shares of £1: 83,014 shares have been issued, 70,000 (vendors') being issued, credited as fully paid, and 13,014 having 15s. per share called up.

Directors:

The Right Hon. the Earl of Kintore, G.C.M.G.
Harvey Green. Hon. C. Hanbury-Tracey. G. A. Phillips.

Head Office: Herbert W. Marten, A.C.A., 3 Gracechurch Street, London, E.C., England.

Mines Office: Fairview, B.C.

J. R. Mitchell, Gen. Man. Arthur L. Pearse, F.G.S., Con. Engineer.

Formed to acquire from the B C. Development Company, Limited, the Fairview group of mines, situated at Fairview, in the Yale District, British Columbia, and consisting of the Joe Dandy, Daisy Dean and Atlas claims, together with the Belmont and Gilpin Fractions, covering a total area of 130 acres. The purchase consideration was £70,000, in fully paid shares.

FAIRVIEW GOLD MINING COMPANY, Limited.

Incorporated 12th August, 1896. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

Corliss P. Stone, President.
F. S. Osgood, Vice-President. E. W. Price, Treasurer.
Chas. S. Carpenter, Secretary.

Head Office: Seattle, Wash.

CANADIAN OFFICE:

Rossland, B.C.

Owns the Fairview mineral claim, on Deer Park Mountain, 1½ miles from Rossland, British Columbia.

FALLS VIEW GOLD AND SILVER MINING CO., Limited.

Incorporated 26th April, 1897. Authorized Capital, $300,000, in shares of a par value of 25 cents.

Directors:

E. C. Pease. S. C. Wing. E. E. Chipman. E. E. McIntyre. H. B. McIntyre, all of Kaslo, B.C.

CANADIAN OFFICE:
Kaslo, B.C.

Formed to purchase the Fall View, Morning Glory, and Midnight mineral claims, located on Bear Creek, 1½ miles north of the Kaslo and Slocan Railway, Slocan District, British Columbia.

FAVORITE GOLD MINING AND DEVELOPMENT CO., Limited.

Incorporated under the Laws of British Columbia, 10th February, 1897. Authorized Capital, $5,000,000, in shares of a par value of $1.00.

Directors:

A. T. Watt. J. H. Falconer. C. E. Jones. Geo. L. Milne.

Head Office: Victoria, B.C.

Mines Office: Greenwood, B.C.

Formed to purchase the Southern Belle, Queen of the Hills, Viola, Bay State, Bowis, Ace High, Royal, Imogene, Henrietta, Seattle, Bute, R. Bello, Emma, and Chickerman mineral claims, all situated in the Greenwood, Clarke and Summit Camps, Osoyoos Division of Yale District, North Forks of Kettle River, British Columbia.

FENNELL MINING AND DEVELOPMENT CO., Limited.

Incorporated under the Laws of British Columbia, 22nd March, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

Albert J. Hill, President.
Harry J. Stubbs, Vice-President. E. L. Webber, Secretary.

Head Office: New Westminster, B.C.

Formed to acquire the Para mineral claim, situated on Ten mile Creek, Slocan Mining Division, British Columbia.

FERN GOLD MINING AND MILLING CO., Limited.

Incorporated 1897. Authorized Capital, $200,000, in shares of a value of 25 cents each. In 1897 a dividend amounting to $10,000 was paid.

Directors :

F. C. Innes, President and Managing Director.
H. Abbott. S. O. Richards. R. G. Tatlow. Phelps Johnson. C. C. Bennett.

Head Office: C. C. Bennett, Secretary, Vancouver, B.C.

Mines Office : J. A. Veach, Mine Manager, Hall's Siding, via Nelson, B.C.

Owns and operates the Fern, Hidden Treasure, Eureka, Elymira and Chicora mineral claims, situate 3 miles from Hall Creek Station on the Nelson and Fort Sheppard Railway, about 14 miles from the town of Nelson, British Columbia. Equipped with 10-stamp mill and other plant.

MILL RETURNS.

(*Reported Annual Meeting 19th May*, 1898.)

No. of Run.	Time of Run.	No of Hours.	Free Gold Recovered per ton of Ore Milled.	Value of Concentrates Recovered per ton of Ore Milled.	Total Number of Tons Milled.
1	October 6th, 1897.. to Nov. 13th, 1897....	912	$12 43	$2 02	965
2	Nov. 14th, 1897.... to Dec. 31st, 1897....	1,068	7 70	1 55	1,251
3	Jan. 1st, 1898 .... to Feb. 28th, 1898....	1,333¼	5 80	1 60	1,168
*4	March 1st, 1898... to April 30th, 1898 ...	1,368	5 41	1 33	1,587

*Estimated.

FERN GOLD MINING AND MILLING CO.—Continued.

BULLION RETURNS.

No. of Shipment.	Date.	Nett Weight in Ounces.	Value of Gold.	Value of Silver.	Nett Mine Returns	Nett Proceeds.
	1897.					
1	November 27th .	689.36	$11,229 25	$62 66	$11,248 13	$11,199 86
	1898.					
2	January 8th	572.00	9,057 39	44 26	9,065 50	9,025 69
3	March 15th.....	365.64	5,971 16	28 65	5,976 10	5,950 66

CONCENTRATES RETURNS.

No. of Shipment.	Date.	Nett Weight.		Returns		Value per ton.	Nett Returns.
		Tons.	Pounds.	Ozs. Gold per ton.	Ozs. Silver per ton.		
	1897						
1	December 13th.	19	1,044	5.16	2.85	$100 99	$1,689 42
	1898						
2	January 13th...	3	658	4.86	3.173	96 60	286 35
3	January 14th...	16	77	5.00	3.135	99 32	1,424 11
4	March 12th....	19	1,764	3.56	1.00	69 93	1,136 22

SHIPPING ORE RETURNS.

No. of Shipment.	Date.	Nett Weight.		Returns		Value per ton.	Nett Returns.
		Tons.	Pounds.	Ozs. Gold per ton.	Ozs. Silver per ton.		
	1897						
1	December 12th.	21	1,651	3.76	1.425	$73 21	$1,318 03
	1898						
2	January 24th...	22	1,387	7.81	2.85	153 91	3,251 80

FERN GOLD MINING AND MILLING CO.—Continued.

FINANCIAL STATEMENTS.

(19TH MAY, 1898.)

LIABILITIES.

Capital Stock—		
800,000 shares at 25c.	$200,000 00	
Less treasury stock unsold (50,000 shares)	12,500 00	
		$187,500 00
Sundry creditors	$ 555 86	
Profit and Loss account, balance	471 44	
		1,027 30
		$188,527 30

ASSETS.

Mine property, purchase price		$140,000 00
Development work	$7,714 60	
Less written off	3,714 60	
		4,000 00
		$144,000 00
Roads and Trails	$ 1,400 00	
Tramway	7,500 00	
Stamp Mill	21,000 00	
Cyanide Plant (in construction)	1,462 31	
Plant and tools $6,457 10		
Written off 645 71		
	5,811 39	
		37,173 70
Bank of Montreal, cash balance		7,353 60
		$188,527 30

PROFIT AND LOSS ACCOUNT,

For the Year ending 31st March, 1898.

To Commission on Sale of Stock	$2,020 00	
Legal expenses	44 74	
Recorder's fees	152 00	
Plans, etc.	13 31	
Travelling and hotel expenses	538 00	
Printing and stationery	114 38	
Postage and telegrams	187 20	
Advertising meetings, etc.	26 85	
Exchange on Money transfers	270 33	
Insurance	663 75	
Secretary's salary and office expenses	646 71	
Sundries	313 50	
		$ 4,990 77

FERN GOLD MINING AND MILLING CO.—Continued.

Development work, amount written off.....			$ 3,714 60	
Roads and Trails, " "			243 98	
Tramway construction, " "			491 00	
Stamp Mill, " "			173 33	
Plant and tools, " "			645 71	
Boarding house acct. " "			216 75	
				5,485 37
To Cost of Mining—				
Labor.....		$12,084 09		
Supplies		1,133 59		
Tool renewals		453 34		
Lumber, etc.....		171 50		
Taxes		13 00		
				$10,476 14
To Cost of Milling—				
Labor.....	$ 3,903 95			
Supplies.....	995 04			
Tool renewals ...	427 62			
Fuel	2,224 92			
		7,551 53		
To stable expenses		388 67		
Taxes on ore.....		276 19		
Freight, cartage and sacking ore.		665 24		
Salaries, general superintendence		4,410 91		
			27,148 06	
			$37,624 20	
Dividend No. 1 (5 per cent. on $187,500.00)			9,375 00	
By Premium on sale of 50,000 shares of stock				12,200 00
By Proceeds of shipments—				
Bullion.....		$26,176 21		
Concentrates.....		4,534 60		
Ore		4,559 83		
				35,270 64
Balance.....			471 44	
			$47,470 64	$47,470 64
By Balance, March 31st, 1898.....				$ 471 44

SUPPLEMENTARY CASH STATEMENT AS AT MAY 1ST, 1898.

April 1—		
To Balance in Bank.....	$7,353 60	
Bullion, Concentrates and Shipping Ore on hand and in transit, April 30th, 1898, estimated at.....	14,572 00	
		$21,925 60
By Sundry creditors.....	$ 555 86	
April Pay-roll and Mine accounts.....	5,046 80	
		5,602 66
Balance available, say.....		$16,322 94

FIGHTING CHANCE GOLD MINING CO., Limited.

Incorporated under the Laws of Ontario, 1899. Authorized Capital, $999,000, in shares of a par value of $1.00.

Officers:

Otto Taubert, St. Paul, Minn., President.
Henry C. Peterson, St. Paul, Minn., Secretary.

Directors:

Otto Taubert. Henry Dietrich. A. V. Wright. Fred. Kuechler. Henry C. Peterson.

Head Office: O. Taubert, S. Wabasha and Bidwell Streets, St. Paul, Minn.

Canadian Office: Mine Centre, Ont.

Owns and is developing Mining Locations G.274 and 682P., on Wild Potato Lake, Seine River District, Province of Ontario.

FINANCIAL AND MINING TRUST OF CANADA, Limited.

Authorized Capital, $250,000, in shares of a par value of $1.00.

Officers:

J. T. Carroll, Chairman.
F. F. Lantz, Managing Director. J. MacQuillan, Secretary.

Directors:

J. T. Carroll. R. de Orr Shaw Wood. D. J. Minchin. F. F. Lantz and J. MacQuillan.

Head Office: Inns of Court Building, Vancouver, B.C.

Mine Office: F. H. Lantz, Cody, B.C.

Owns and is developing 14 mineral claims in the Slocan District, British Columbia. On Vulture claim, at date of report a tunnel had been driven 200 feet.

FIRE LAKE GOLD MINES, Limited.

Incorporated under the Laws of British Columbia, March, 1897. Authorized Capital, 1,000,000, in shares of a par value of $1.00.

Directors:

J. M. McKinnon. R. J. Leckie. J. G. Hutchinson. J. W. Girvin. Joseph R. Seymour.

Head Office: Vancouver, B.C.

Formed to acquire mines, mineral claims, mining leases, coal lands, or any other mining property in the Dominion of Canada or elsewhere, and in particular, the Hard Scrabble, Sun Dog, Wild Horse, Morning, Noon Day, Snowshoe, Crown Point and March mineral claims, situate on Fire Mountain, in the New Westminster Mining Division of British Columbia.

FIRE MOUNTAIN GOLD MINING CO., Limited.

Incorporated under the Laws of British Columbia, 18th November, 1896. Authorized Capital $1,000,000, in shares of a par value of $1.00.

Officers:

R. J. Leckie, President.
J. W. Girvin, Vice-Pres. W. H. Leckie, Sec.-Treas.
J. R. Brown, Managing Director.

Head Office: 632 Granville Street, Vancouver, B.C.

Owns and is developing the Fire Mountain group of mineral claims, located about 14 miles by waggon road from the head waters of Harrison Lake, New Westminster Mining Division, British Columbia.

Referring to the work done on the company's property in 1898, the *Mines Report*, B.C., says:—

"The mill has not been operated during the past season. About 300 feet of tunnelling has been done this year, and the whole length of shafts and tunnels at the present date is about 600 feet. A horizontal tunnel has been run 450 feet into the mountain, and the ore is said to improve as the distance increases. The vein is about 4 feet in width, and is enclosed in serpentine walls. Assays are said to be quite satisfactory. The mouth of the tunnel is 5,100 feet above sea-level, and the property is covered with snow during six months of the year. About $10,000 has been expended this year in development work, and if sufficient capital can be had next year it is the intention of the company to erect a large plant for treatment of the ore."

FISHER MAIDEN CONSOLIDATED MINING AND SMELTING CO., Limited.

Incorporated under the Laws of the State of Washington, and registered in British Columbia, 20th March, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

Frank Watson, President and General Manager.
John Kirkup, Vice-President. Chas. S. Carpenter, Sec.-Treas.

Directors:

Judge George Turner. | Frank Watson. | John Riplinger.
E. J. Dyer. | Ross Thompson. | John Kirkup.
W. F. Tye.

CANADIAN OFFICE:
Frank Watson, Manager, Rossland, B.C.

Owns and is developing the Fisher Maiden and Silverton claims, on Four Mile Creek, Slocan District, British Columbia.

FISH LAKE GOLD MINES SYNDICATE, Limited.

Registered 28th J[illegible], 1897. Authorized Capital, £15,000, in 15,000 shares of £1 each.

Directors:

E. Easton Aitken, C.A.
George Parker. | Morris Carswell. | Dr. W. McCorkindale.
James S. Dixon, C.E. | John F. Miller. | J. W. Stewart.

Head Office: Walter King, Secretary, 142 St. Vincent St., Glasgow, Scotland.

Formed to acquire and deal with mines, claims, etc., in British Columbia and elsewhere in Canada.

FLORA, WESTERN HILL AND VIRGINIA MINING CO., Limited.

Incorporated under the Laws of British Columbia, 17th November, 1898. Authorized Capital, $600,000, in shares of a par value of 25 cents.

Canadian Office: Fairview, B.C.

Formed to acquire and work the mineral claims known as the Flora, Western Hill and Virginia, situate at Fairview, in the District of Yale and Province of British Columbia.

FOLEY CONSOLIDATED GOLD MINES, Limited.

Head Office: 15 George Street, Mansion House, London, E.C.

This company was registered on the 14th of February, 1898, to search for, examine, prospect and explore mines and ground supposed to contain minerals or precious stones. The Authorized Capital £1,000, in shares of £1 each.

FORFARSHIRE MINES, Limited

Incorporated under the Laws of British Columbia, 21st January, 1898. Authorized Capital, $20,000, in shares of $5.00.

Canadian Office: Barclay Bonthrone, Vancouver, B.C.

Owns and is developing the Mountain Treasure group of mineral claims, located about 1½ miles from the mouth of Anderson Lake, Uchucklesit Harbour, Alberni District, British Columbia.

Three of the claims, the Mountain Treasure, Pacific and Pheasant have very extensive showings of sulphite copper ore and pyrrhotite. The property under the management of Mr. J. Cameron, has been thoroughly prospected during the summer of 1898, by open cuts and tunnels, proving the existence of an extensive ore zone containing large chutes of ore. Several bodies of good grade ore have been exposed on this property by the season's work.

FORT FRANCES MINING CO., Limited.

Incorporated 1897. Authorized Capital, $40,000, in shares of $1.00 each.

Directors:

A. E. Cline, Fort Frances, Ont.
F. H. Clarke, " " "
H. B. Round, " " "
W. J. Keating, Fort Frances, Ont.
A. M. Keating, Galice, Oregon.
A. A. Wilson, Orillia, Ont.

Canadian Office: Fort Frances, Ont.

Formed to carry on in all its branches the business of a mining, milling, reduction and development company.

FORT GEORGE GOLD DREDGING CO., Limited.

Registered in British Columbia, 2nd August, 1898. Authorized Capital, $1,000,000, in shares of $1.00.

Head Office: Pittsburg, Pa.

Canadian Office: J. G. Craighead, Manager, Quesnelle, Cariboo District, B.C.

Formed to carry on mining on the Fraser River or its tributaries, or elsewhere in Canada.

FORT STEELE DEVELOPMENT SYNDICATE, Limited.

Incorporated 1898. Authorized Capital, £5,000, in shares of £1.

Directors:

A. T. Howard. Sir Albert Altman. T. K. Bellis. F. E. Harman.

Head Office: A. S. Crosby, Secretary, 138 Leadenhall Street, London, E.C.

Canadian Office: N. A. Wallinger, Fort Steele, B.C.

Owns and is developing certain argentiferous galena claims near Fort Steele, East Kootenay, British Columbia.

43rd MINING AND MILLING CO. OF CARIBOO, Limited.

Incorporated 1896. Authorized Capital, $600,000.

Trustees:

Lieut.-Col. Wright. Capt. W. A. Jamieson. Capt. M. N. Garland.
F. W. Valleau, C.E. J. S. Holloway.

Directors:

N. C. Sparks, Ottawa, President.

Wm. McGillivray,	Ottawa.	Thos. Kenny,	Ottawa.
Major S. M. Rogers,	"	Capt. H. Watters,	"
Lt.-Col. A. P. Sherwood,	"	Capt. S. E. De La Ronde,	"

Head Office: Major S. M. Rogers, Sec.-Treas, 193 Sparks St., Ottawa.

43rd MINING AND MILLING CO.—Continued.

Mines Office: Joshua Wright, Manager, North Bend, B.C.

This company has been formed for the purpose of working and developing the following auriferous bench diggings and creek diggings situated on Manson and Slate Creeks, in the Omenica Division of the Cariboo District, British Columbia, containing 720 acres of bench diggings and three miles of creek diggings, and recorded as leases No. 55-563-4-5-6-7-8-9-70-1-2-3-4-5-6-7—15 leases in all; 9 bench diggings and 6 creek diggings. Development of property proceeding.

FRASER RIVER CONSOLIDATED GOLD, Limited.

Registered 1897. Authorized Capital, £150,000, in shares of £1.

Directors:

Ross Robinson, Chairman.

Frank Davies. Geo. F. Fulcher. Alex. Patten. Edward Pope.

Head Office: W. A. Parker, Secretary, 65 New Broad St., London, E.C.

Formed to acquire and work certain leases extending about 30 miles on the Fraser River, British Columbia. The property extends from Hill's Bar to a point about half a mile below Ruby Creek station, and the purchase consideration, fixed by the British Columbia Venture Syndicate, Limited, the vendors and promoters, was £100,000, payable £6,000 in cash, £24,000 in cash or fully paid shares, at the option of the directors, and £70,000 in fully paid shares. The following is excerpted from the prospectus:—

Yield of Gravel.—A large number of samples taken from various points of the river by Mr. Rattray were averaged by panning down the gravel and saving the concentrated black sand and gold; the assay result of a mixture of an equal portion of all these samples was about 2s. 6d. per ton; or, allowing for stones, which in panning had to be thrown aside, say one-half or one-third per ton. These samples were taken from various points from Hill's Bar down to below Ruby Creek. Mr. Rattray, speaking of his assays, says:—

"My assay comes from ground that has been turned over time and again; and taking the official returns of the amount of gold that has been recovered from the 'Hills' and other bars within the boundaries of the claim, it is only reasonable to suppose that a few yards of them, in the river where the gold washer has not been able to get at, will also be as rich in gold as the Bars were formerly."

FRASER RIVER CONSOLIDATED GOLD—Continued.

Samples taken by Messrs. Bainbridge, Seymour & Co., in most cases from near the water line, from Puget Sound Bar to Ruby Creek Bar, gave an average of about 44 cents per ton, or allowing for large stones, say 22 cents or 11d. per ton.

Samples taken by these gentlemen, from the upper reaches of the river, viz., from Hill's Bar to American Bar, yielded nearly double that value.

Mr. Breckman states that he took samples all down the reaches at the edge of the water or as far in it as possible; all showed good prospects, and he estimates the average value at one-third per ton after allowing for stones.

For years Chinamen and others have been working by "rockers," on the bars and banks, and when the aforementioned examinations were made, numbers of men were at work in this way.

Cost of Dredging.—It is generally stated in New Zealand, by the officals, that 1 grain of gold (=2d.) per cubic yard (=1¼ tons) of gravel will pay the expenses of dredging in that country; and that the amount of gold per cubic yard, in excess of 1 grain, is calculated on as clear profit.

The rent of the three leases is $350 per annum, and a royalty to the Government of 50 cents per ounce of gold recovered from the river.

Cost of Dredgers.—The estimated cost of a dredger to handle 1,000 tons per day of eight hours is about £3,000, built on the Fraser River.

Estimate of Profit.—Three dredgers handling 1,000 tons each per day of 8 hours for 250 days per annum, with a recovery of, say 11d. per ton, the lowest estimate, less, say 3d. per ton expenses, should yield a profit of about £25,000 per annum.

These figures are based on the dredger only being worked one shift of eight hours per day, but there is nothing to prevent work being carried on day and night, with a corresponding increase in recovery, if electric light be used. The directors are assured that by the addition to the plant, of a dynamo worked by water power, electric force can be obtained to work the whole of the dredging operations, thus utilizing the 24 hours as an actual day, in the most economical manner.

In view of the favourable reports above-mentioned and the profits that have been and are now being made on the banks and bars by primitive means, demonstrating the presence of gold in the gravel, the directors believe that these leases can be immediately worked at a profit on a large scale, by means of proper dredges, which they propose to have built and placed on the river as soon as possible.

FRENCH CREEK MINING CO., Limited.

Re-registered in British Columbia, 15th March 1898. Authorized Capital, $2,000,000, in shares of a par value of $10.00.

Officers:

E. B. Lee, Chicago, President.
C. T. Kennan, Milwaukee, Wis., Vice-President.
George J. Atkins, Revelstoke, B.C., General Manager.
Geo. E. Milligan, Milwaukee, Wis., Sec.-Treas. J. M. Skeaff, Mining Eng.

Head Office: Milwaukee, Wis.

CANADIAN OFFICE:

J. M. Skeaff, M.E., Revelstoke, B.C.

Owns and is developing a hydraulic property, comprising some 600 acres on French Creek, Big Bend of Columbia River, Revelstoke Mining District, British Columbia. Mr. Skeaff, reporting on the work done in 1898, writes:—

"Preliminary surveys and investigations for construction of the plant were commenced May 26th of 1897. Construction was commenced June 14th, and suspended for the season November 3rd. It was commenced again this year May 12th, as soon as weather would permit, and finished August 1st. Washing was commenced August 9th and continued (more or less interruptedly) until November 7th, when frost prevented further washing.

"The water for washing is taken from French Creek, through substantial head-works, by a 3½ x 4-foot flume, 12,200 feet long. Connected with the flume are 1,587 feet of wasteways. The capacity of the flume is a little in excess of 75 cubic feet per second. On the flume line there are some heavy cuts, 3,151 feet of trestle from 2 to 40 feet high, 2 bridges (the larger 187 feet long and 90 feet high), and 2 tunnels, 5 x 5½ feet in the clear, and 100 feet and 279 feet in length. The elevation of the flume gives an excess of pressure at the mines; this was the result of obstacles to flume construction at a lower elevation. From a point near the end of the flume to bed-rock in the mine the elevation is 412 feet. A branch flume takes the water from the main flume at this point and conveys it to a penstock 45 feet long, at an elevation 112 feet lower, from which a pipe line 1,825 feet long conveys it to two No. 6 Giants in the mine. The bed-rock flume is 108 feet long, and is set in a rock excavation 30 feet deep in solid rim-rock. A derrick of 6 tons capacity, operated by a Pelton wheel, is used to remove the boulders in process of washing. To supply lumber for the construction of the plant, the company built a saw-mill, with a capacity of 12,000 feet of lumber per

FRENCH CREEK MINING CO.—Continued.

day. The mill is operated by a turbine wheel supplied by water through a 600-foot flume. A logging flume 2,802 feet long was another adjunct to the saw-mill. This summer a boarding-house, sleeping house for the men, store-houses, and office have been built of sawed lumber.

"The installation of the plant would have been well on to completion last Fall had there not been the many very serious delays caused by the lack of transportation facilities between Revelstoke, the base of supplies, and the mine, and the wretched condition of the trails, which was aggravated by an exceptionally wet season. Part of the supplies were packed the entire distance of 70 miles from Revelstoke to the mine. Towards the middle of the season, the company succeeded in getting the C. P. R. to take four steamer loads of machinery and supplies from Revelstoke up the Columbia River to La Porte, about 46 miles, from whence it was packed to the mine on animals. Small boats were also employed between Revelstoke and La Porte. The company had 50 pack animals of their own, besides 24 others under contract, and in addition, got some assistance ftom local packers. Last year the company spent on pack-train out-fit, packing and freight charges, between Revelstoke and the mine, about $12,000.

"This year the company got the steamer "Lytton" to make three trips with additional machinery and supplies, from Revelstoke to La Porte, as soon as the river was high enough to take the steamer up, about the middle of May. Small boats were again employed in September and October to take provisions up for next spring, and some of the provisions were packed from Revelstoke to the mine to insure against delay. Packing and connected expenses to the mine, and river freight, cost about $6,000. This is exclusive of railroad freight on machinery, etc. As washing was commenced towards the end of the season the company did not expect much more from the mine than to shape the work and the ground and leave it in a more workable and systematized condition for the spring. But even under the circumstances better results would have been obtained had it not been for the serious lack of labour. Owing to this a night shift could not be run, and about three-quarters of the time since washing was commenced there was only a half-day shift. It is to be regretted that so heavy an investment as this company has made on French Creek (which amounts to about $100,000) for construction of plant alone and expenses directly connected with construction, exclusive of purchase price of property and operating expenses since washing commenced, that it should be jeopardized for lack of labour when there is supposed to be so much unemployed labour in the country, and when it is led to believe that such enterprises are hailed with enthusiasm to give labour employment and open a section of undeveloped country, which has been actually pioneerod by this company on the first

FRENCH CREEK MINING CO.—Continued.

large scale. Tent life is unavoidable during construction, but now the company has comfortable warm buildings of ample size for its employees, and a boarding house stocked with the best provisions the country affords, and, as stated, it is a very serious drawback to this and similar investments that may follow, that labour will not take a better hold of this class of work when opportunity for work is afforded.

"When construction was finished and operating commenced, the company began to systematically prospect the undeveloped part of their property, to the extent that the limited amount of labour would allow. This work will be continued next year until the whole of the property is thoroughly prospected."

FRONTENAC LEAD MINING AND SMELTING CO., OF TORONTO, Limited.

Incorporated under the Laws of Ontario, 1899. Authorized Capital, $55,000, in shares of $1.00.

Officers:

J. R. Shaw, Toronto, President.
T. H. Graham, Toronto, Vice-President. Ed. Buffum, Toronto, Treasurer.
Frank G. Bowers, Toronto, Secretary.

Head Office: 19-21 Adelaide Street East, Toronto, Ont.

Works: Kingston, Ont.

Owns and operates a lead smelting plant at Kingston, Ont.

GAGNE ISLAND GOLD MINE CO. OF OTTAWA, Limited.

Incorporated Feb. 12th, 1897. Authorized Capital, $500,000, in shares of $1.00 each.

Directors:

A. Hudson, Ottawa, Ont.
F. W. Bindon, Ottawa, Ont. | A. Bannerman, Ottawa, Ont.
J. W. Wurtele, " " | Taylor McVeity, " "

Head Office: Ottawa, Ont.

Formed to carry on in all its branches the business of a mining, milling reduction and development company. Property, on the Lake of the Woods, being developed.

GALENA GOLD MINING CO., Limited.

Incorporated 26th April, 1899. Authorized Capital, $999,000, in shares of a par value of $1.00.

Officers :

W. W. Ward, Pleasantville, Pa., President.
Leo. M. Ward, Wa Wa City, Ont., Superintendent.
B. Corwin, Titusville, Pa., Vice-President.
W. D. Beebe, Pleasantville, Pa., Secretary.
Dr. J. A. Todd, Titusville, Pa., Treasurer.

Directors :

W. W. Ward. | L. M. Ward. | W. D. Beebe.
J. A. Todd. | J. J. McCrum. | B. Corwin.

Canadian Office : Leo M. Ward, Supt., Wa Wa City, Michipicoten District, Ont.

Head Office : W. D. Beebe, P easantville, Pa.

Owns and is developing a number of gold mining properties in the Michipicoten Mining District, Province of Ontario.

GALENA MINES, Limited.

Registered December, 1896. Authorized Capital, £550,000, in shares of £1.

Directors :

Col. Robert Baring. Capt. H. French. Andrew Haes.
Fred. Burdett. Patrick Comiskey.

Head Office : P, F. Dietz, 20 Threadneedle St., London, E.C., England.

Canadian Office : Silverton, B.C. G. R. Fraser, Manager.

Formed to acquire and work one of the properties formerly owned by the Vancouver and British Columbia General Exploration Co., Limited, comprising six silver lead mining claims known as the Grover, Peerless, Currie, Currie Fraction, Stevenson and Kate, locally known as the Galena Farm or Currie Group, containing about 193 acres, and situated on the east side of Slocan Lake, about two miles from the Town of Silverton, District of West Kootenay, British Columbia.

GALENA MINES—Continued.

The purchase consideration was £500,000, payable as to £475,000 in shares, and £25,000 in cash. Mr. W. A. Carlyle (Mines Report, 1896), has the following to say of these properties:—

"On the Currie claim this vein was seen to have a strike east and west (mag.) and a north dip of 50° to 65°, and on the surface, and an outcrop now traced for 1,600 feet, with, in places 12 to 14 feet wide, of milk-white quartz, spathic iron, fragments of slate and granite, and some zinc blende and galena. In an old shaft, at a depth of 50 feet, a short cross-cut entered the vein at 12 feet, and there a drift was run 60 feet east and 70 feet west, exposing a large body of concentrating ore for all this distance, and along the smooth hanging-wall a good body of solid high-grade galena. In the west drift, 35 feet from the cross-cut, a winze was being started, since sunk 45 feet, in four feet of solid fine-grained galena. In an open working 500 feet west of the shaft, were 16 inches of solid galena along a smooth foot-wall, with considerable concentrating material.

Since the time of visit, a two-compartment working shaft, now down 65 feet, has been sunk west of the old shaft, and 140 feet north of the outcrop, with the expectation of striking the lead at 130 feet, but at 41 feet, what is believed to be a cross-cut running north and south was entered, dip 60° west, and down to 51 feet, the shaft was in concentrating ore, that by tests made by Mr. Callahan, concentrating 5 to 1, yielded 123 ounces of silver per ton and 62 per cent. lead. This cross-lead is now thought to be traceable for 800 feet. The shaft, equipped with requisite steam hoisting plant and pumps, will be now sunk 500 feet, with cross-cuts to the vein at every 100-foot station, and when sufficient development justifies it, a 150-ton concentrating plant will be built, from which the water from Eight-Mile and Gold Creeks is expected to supply 600 ins. under a 500-foot head. The ore is essentially a milling ore, but a test shipment of assorted assayed 98 ounces of silver per ton and 57 per cent. lead. A good waggon road, 1¾ miles long, has been constructed from the mine to Silverton, whence the concentrated ore will be shipped to the smelters, and suitable bunkhouses, etc., have been erected.

The mine is being worked by means of two perpendicular shafts, one being 50 feet in depth, and the other 212 feet. The latter is the working shaft, in two compartments, well timbered, one being a man-way with ladders from top to bottom, and the other the working compartment. The hoist is worked by water power, and the cage is equipped with the proper "safeties," all in accordance with the requirements of the Act. Connections have been made between the two shafts, affording ample ventilation. Cross-cuts and drifts have been driven from the 100-foot and 200-foot levels, and the rock is of such a hard character that very little timbering is necessary. The quarters provided for the employees are very commodious and excellent. There are employed about 25 men, under the management of Mr. G. R. Fraser."

GANANOQUE GOLD MINING CO., Limited.

Incorporated 25th May, 1899. Authorized Capital, $450,000, in shares of $1.

Directors :

G. Taylor.	T. Cornett.	J. Barton.
C. V. Ketchum.	W. Hale.	E. T. Partridge.
J. Legge.	J. T. Green.	S. Barton.

Head Office : Gananoque, Ont.

GENERAL MINING ASSOCIATION, Limited.

Registered 1825. The capital was £274,690 in fully paid shares of £10, but in 1874 a return of £1 per share was made, in 1880 a further £1 per share was repaid, and in 1894 a return of £2 10s. was made. There is now, therefore, a capital of £151,079 10s. in shares of £5 10s. fully paid. Accounts to December 31st, submitted in April, but an interim meeting is held in November. A dividend of 2s. 6d. per share was paid in 1877 ; for 1878, 4s. ; for 1879, 2s. 6d. ; for 1880, 4s. 6d. ; for 1881 and 1882, 8s. ; for 1883, a dividend of 10s. per share was paid, with a bonus of 5s. per share out of the profits derived from the sale of shares in the Spring Hill Mining Company ; in 1884, a dividend of 8s. ; for 1885 and 1886, 5s. each year ; 1887, 5s. 7d. ; 1888 and 1890, 6s. ; 1891, 8s. ; 1892, 10s ; 1893, 15s. ; 1894, 14s. ; 1895, 12s. ; 1896, 15s. ; 1897, 12s. 6d.

Directors :

J. D. Hill, Chairman.
E. D. Brenton. W. S. Cunard.
Col. W. C. Western.

Head Office : E. E. Bigge, Secretary, Dashwood House, 9 New Broad St., London, E.C., England.

Mines Office : R. H. Brown, General Manager, Sydney Mines, C.B.

CANADIAN AGENTS :
Messrs. Cunard & Company, Halifax, N.S.

In the year 1825 this company purchased the Duke of York's right to all the coal mines in Nova Scotia. In 1826 it sent out the late Mr. Richard Brown, father of the present manager, to survey and report upon the coal fields of Nova Scotia and Cape Breton. He found that the Sydney Mines, first opened 1785 and under lease to Messrs. T. S. and W. R. Brown, was not included in the lease to the Duke of York, and as their lease expired on the

GENERAL MINING ASSOCIATION—Continued.

31st December, 1826, and they did not care to renew it at a heavy royalty of 4s. 3d. per ton, which they had been paying, Mr. Brown took the lease from the Government for the General Mining Association. The opening out of the works was commenced at the beginning of 1830, when the first shaft, 200 ft. deep, was sunk. Iron foundry and fitting up shops were were then erected and a railway from the pits to North Sydney for a shipping port was completed in 1834. Previous to this date the coal had been shipped at a small wharf outside the bars. In 1834 a second shaft further to the dip was sunk. In 1854 a third shaft 400 ft. in depth was put into operation. A still further move to the dip was made as the underground works advanced in that direction, and the fourth winning was got into operation in 1876. This last is known as the Princess Pit. In addition to their works at Sydney Mines, the G. M. Association opened a colliery at Bridgeport in 1830, which was closed in 1849; they also operated a small colliery at Bras d'Or from the year 1833 to 1849. They opened a colliery at Lingan in 1854, which worked until 1886, while they opened the Victoria Colliery (now owned by the Dominion Coal Co., Ltd.) in 1882.

Sydney Mines Colliery—Situated in the town of Sydney Mines, on the north side of Sydney Harbor, about three miles from the town of North Sydney. Edward Wilkinson, Underground Manager. Average persons employed: Below ground, 492; above ground, 243. The average output during the past three years has been 270,000 tons per annum. For the calendar year 1898 the quantity of coal mined was 267,000 tons.

Main seam, 5 ft. 4 in., thick; dip averages 1 in 12.

Opened by shaft, 13 ft. dia. by 690 ft. deep.

System of working—Bord and pillar, the bords being 17 ft. wide.

Lamps—All Marsaut safety lamps.

Ventilation by Guibal fan, 30 ft. dia., by 10 ft. wide, and by a Murphy fan, 10 ft. dia. by 4 ft. wide.

Hoisting engines having two horizontal cylinders, each 36 in dia. by 5 ft. stroke, drum 18 ft. dia, draws two tubs of coal in a cage at once, and can hoist 126 tons coal per hour.

Pumps—One Cornish pump, steam cylinder, vertical, 68 in. dia. by 9 ft. stroke, pumps about 550 imperial gallons water per minute and works for 9 hours per day. Pumps are in two lifts, each 20 in. dia. by 336 ft. in height. One forcing set, steam cylinder, horizontal, 30 in dia. by 4 ft. stroke, pumps about 42 galls. per minute, in one column of pumps, which are 8 in. dia. by 360 ft. in height. The water from the faces of the workings at the dip is pumped to the shaft bottom by two duplex pumps; one Northey 4½ x 2¾ x 4 in., forces the water to a distance of 2,960 ft. back from the working faces and to a vertical height of 280 ft.; the other, a Northey, 7½ x 4½ x 10 in., forces the water thence to the pit bottom, a distance of 3,194 ft., and to a vertical

GENERAL MINING ASSOCIATION—Continued.

height of 209 ft. 9 in. These two pumps are actuated by compressed air produced on the surface and carried to the pumps in malleable iron pipes.

Boilers—Five Lancashire 7 ft. diam. x 28 ft. long; four egg-ended cylindrical from 5 ft. to 6 ft. diam., by 30 ft. to 35 ft. long; three steel tubular, each 5 ft. diam. by 14 ft. long, with 62 tubes of 3½ in. dia.; three steel tubular each 4 ft. 6 in. dia. by 14 ft. long, with 54 tubes of 3½ in. dia.

Air compressors—One duplex, cylinders 14¼ x 18 in.; one single air compressor, cylinder 14¼ x 18 in.; three winches placed in the workings at more than a mile from the pit-bottom are operated by compressed air and used to assist at the secondary haulage.

Screens—Five, each 5 ft. wide by 24 ft. long.

Railroad is $4\frac{8}{10}$ miles in length to the shipping piers of North Sydney; also connected with the main line of the Intercolonial Railway at North Sydney station. There are four locomotives and 220 coal cars of the capacity of from 4 to 6 tons each. They have two commodious shipping piers at their loading ground at North Sydney.

COAL SALES.

	Round.	Slack.
1890	143,365½ tons.	9,316 tons.
1891	136,552 "	6,740 "
1892	151,884 "	7,631 "
1893	186,615 "	8,994 "
1894	211,000 "	12,000 "

	Large, Run of Mine and Slack.
1895	218,808 tons.
1896	234,616 "
1897	235,226 "
1898	243,615 "

DIRECTORS' REPORT, 1898.

The Directors present to the proprietors their Annual Report, together with the accounts for the year ending 31st December, 1898.

The sales of coal were as follows:—

	1898. Tons.	1897. Tons.	Increase. Tons.
Sydney mines	252,327	241,327	11,000

The profit on the year's trading, as set forth in the accounts, amounts to	£16,716	14	11
Brought forward from 1897	3,108	2	7
	£19,824	17	6
Amount transferred to new sinking account	2,500	0	0
	£17,324	17	6
Out of which the Directors propose a dividend at the rate of 10 per cent. free of Income Tax, viz.	15,107	19	0
Leaving balance to carry forward	£ 2,216	18	6

GENERAL MINING ASSOCIATION—Continued.

The shipping season which opened at the beginning of May, continued without interruption from ice, until the end of the year, and a good demand was experienced for coal in most markets, with the result that the quantity disposed of shows a satisfactory increase over the total for the year previous.

The profit for the year was, however, not quite so satisfactory as might have been expected in view of the increased sales, which in some cases had to be made at a slight reduction on last year's prices.

Work in connection with the new sinking continued uninterrupted by any serious difficulty to the end of 1898, the upper seam of coal having, as mentioned in the last half-yearly Report, been reached in July. Latest advices from the mines report that the lower seam has also been reached, viz., on 10th March. It is impossible as yet, accurately to determine the value of this seam, as further exploration will be necessary before this can be arrived at, and, of course, much will depend on the uniform thickness of the coal.

So long as the present works are in progress, the Directors recommend that a substantial sum should be carried forward as a contribution towards outlay.

REPORT FROM THE MANAGER.

"The average number of colliers employed during the season was 323 men; the pit worked 287½ full days drawing coal, and the total quantity of 267,773 gross tons of coal was raised. The best month's output made during the season was in August, when 26,320 tons of coal were brought to bank.

Of the above-mentioned output, 50,500 tons were banked out during the winter and early spring, and re-filled and shipped during the succeeding months of open navigation.

Some 7,000 tons of coal were shipped in the month of January; a small quantity was shipped in both February and March, and some 5,000 tons in April. Regular shipping work for the season commenced on 1st of May.

The largest month's shipment of coal was made in August, when 30,535 tons were put on board vessels. The total shipments for the year were 231,603 tons, and the local coal sales of all kinds were 20,724 tons of Screened Large, Run of Mine and Slack Coal.

The length of our main haulage engine planes has been advancing during the year; that on the north side is now 2,563 yards from the pit bottom to the landing in No. 3 district, and the south side engine plane has reached the distance of 2,084 yards to the landing in No. 4 district. For the secondary haulage, another air winch, having two 7-inch cylinders by 10 inches stroke, has been added to those already in use. Compressed air pipes have been put in to supply air to operate the winches on the south side. New stables for one half our number of horses have been erected in the south side workings, as they were put into the north side the previous year; and water pipes have

GENERAL MINING ASSOCIATION—Continued.

been put in from pit bottom to these stables. These water pipes, on both sides of the workings, traverse our main haulage roads, and besides supplying the horses with water, they give us the means of wetting our haulage planes whenever necessary. At every 200 feet distance on these pipes we have tap cocks, to which we can attach flexible hose of 100 feet length when desired. The water in these pipes comes from our reservoir on the surface, giving a pressure due to a head of 600 feet, if called for. Our arrangements thus made for watering the main haulage roads, probably would not suffer by comparison with those of many of the most advanced collieries in England. There are at present in our workings 6,137 yards length of iron pipes for compressed air and 4,537 yards for water, of which quantity, some 3,194 yards were put in this last year.

On the surface we have replaced one more of our old cylindrical egg-ended boilers, by a Lancashire boiler, so that we now have a battery of five Lancashire boilers in use.

A new engine to work our north side main haulage has been erected on the surface, but it is not yet at active work, for the reason that the clutch gear with which it was mounted was found inadequate for the very heavy work which the engine now has to perform ; consequently, an improved form of friction gear had to be ordered, and it was not delivered by the close of the year.

Ten new coal cars of 6 tons capacity each were ordered from Rhodes & Curry, of Amherst, and were added to our stock in July.

Three of our locomotives were provided with a number of new tubes, and a set of new tyres was procured for the locomotive "John Bridge."

Part of the railway was relaid with 4,300 yards of steel rails of 65 lbs. to the yard, and a large number of sleepers, or cross-ties, was replaced by new ones.

Eight new cottages of the commodious design adopted of late years, and three smaller cottages, were built for the accommodation of our workmen ; and many of their older dwellings were repaired, while some that were in bad condition were partially rebuilt.

The summer of 1898 was unusually dry, much inconvenience was suffered by our workpeople and others from the want of water, and at one time the supply in the reservoir, upon which our boilers depend for their feed, was alarmingly low. The services of a boring machine were procured, and some expense was incurred in boring several holes along the line of our railway. Several feeders of good water were found. A portable engine and pump were provided and set to work at the nearest borehole, and our supply of feed water was thus made safe until rains set in and replenished our reservoir.

The new shaft, known as the Jubilee Pit, which was commenced in 1897 to test the No. 3 seam of coal, reached that seam on July 21st, 1898, at a

GENERAL MINING ASSOCIATION—Continued.

depth of 468 feet from the surface. The seam of coal was there found to be 4 feet 4 inches in thickness.

It was then determined to push on the sinking to find and test our No. 4 seam, which it is expected to reach at about 191 feet below our No. 3 seam. After completing the tubing of the shaft to shut back the water that was finding its way in, the sinking was resumed on the 11th of November, and by December 31st the total depth of 563 feet 9 inches from the surface had been reached.

A number of new pit tubs or boxes were built during the year; coal cars, stationary engines and the older boilers were repaired, and the various other plant and appliances of the colliery generally have been kept in efficient condition and working order."

(Signed) R. H. BROWN.

BALANCE SHEET, 31ST DECEMBER, 1898.

LIABILITIES.

To Share Capital, viz., 27,469 shares of £5 10s. 0d. each			£151,079 10 0
To Sundry creditors—			
At the Mines	£4,611 2 7		
At Halifax	3,376 4 2		
In England	2,419 11 4		
Unclaimed Dividends	414 14 0		
" Return of Capital	149 0 0		
			10,970 12 1
To Reserve—			
Per last account	£31,400 0 0		
Maintenance and Renewal account—			
From 1897 £44,750 0 0			
Sydney Mines for current year 1,500 0 0			
	46,250 0 0		
			77,650 0 0
To Profit and Loss—			
Per last account £20,276 5 1			
Less dividend paid April, 1898 17,168 2 6			
	£3,108 2 7		
Less written off new Sinking Sydney Mines 2,500 0 0			
	£ 608 2 7		
Profit this year, per account "B"	16,716 14 11		
			17,324 17 6
			£257,024 19 7

GENERAL MINING ASSOCIATION—Continued.

ASSETS.

By Property of the Association, viz.—			
Pits, railways, engines, wharves, buildings, machinery, &c.	£128,049 9 0		
Other property, including real estate, stores, mining implements, &c., valued per inventory	47,903 2 11		
			175,952 11 11
To Sundry Debtors—			
At Halifax	£19,809 13 3		
At the Mines	5,416 2 1		
			25,225 15 4
To Bills Receivable—			
In England	£ 146 19 0		
In Halifax	12,219 14 5		
			12,366 13 5
To Government and other securities	£38,365 8 2		
Accrued interest thereon	438 10 0		
			38,803 18 2
To Cash—			
At Halifax	£2,727 6 8		
At the Mines	719 16 8		
At London Bankers and Office	1,228 17 5		
			4,676 0 9
			£257,024 19 7

PROFIT AND LOSS ENDING 31ST DECEMBER, 1898.

Dr.

To Coal stock on hand 1st January, 1898			£ 1,330 16 2
Sydney Colliery General working expenses, Railroad expenses, Shipping charges, Royalty, &c.			73,215 8 7
Maintenance and renewal of plant, railroad, wharves, &c.			1,500 0 0
Management expenses at Sydney Mines			1,959 8 8
Income tax (average of three years)			625 4 8
Expenses of Management in London—			
Directors' salaries	£900 0 0		
Secretary, Clerks, and Auditors' salaries.	835 0 0		
Office rent, printing, advertising, stationery, telegrams, postages, travelling and petty expenses	580 10 6		
			2,315 10 6
To Legal expenses			8 13 10
Balance—Profit carried to account "A"			16,716 14 11
			£97,671 17 4

GENERAL MINING ASSOCIATION—Continued.

Cr.

By Proceeds of sale of 252,327 tons of coal and miscellaneous receipts at Sydney Colliery		£94,726 8 6
Rents of cottages and lands		1,443 6 11
Interest and exchange	£1,415 8 3	
Less interest paid	513 18 11	
		901 9 4
By Transfer and other fees		4 12 6
Profit on real estate sales		94 10 2
Recovered on bad debts account		158 7 9
Stock of coal 31st December, 1898		343 2 2
		£97,67. 17 4

GERMANIA GOLD MINING CO., Limited.

Registered in British Columbia, 16th November, 1896. Authorized Capital, $1,000,000.

Directors:

Wm. Roos, Berlin, Ont., President.
Dr. H. G. Lackner, Berlin, Ont, Vice- President.
John R. Eden, Berlin, Ont., Sec. Treas.

Hon. S. Merner. | Hardman Krug. | Fred Clare. | H. M. Andrews.
J. B. Hughes. | August Laing. | C. L. Pearson. | J. A. Smith.
Robert Scott.

Head Office: Berlin, Ont.

Owns and is developing the Electra and Chief Seattle mineral claims, on the east slope of Green Mountain, 3½ miles from Rossland, British Columbia.

GIANT MINING CO., Limited.

Re-registered in British Columbia, 28th December, 1897. Authorized Capital, $2,500,000, in shares of a par value of $1.00.

Officers:

A. D. Coplen, President.
G. S. Allison, Vice-President. H. E. Allen, Sec.-Treasurer.

Head Office: H. E. Allen, Sec.-Treas., Spokane, Wash.

Canadian Office: Rossland, B.C.

Owns and is developing the Giant mineral claim, near Rossland, British Columbia. Development work comprises No. 1 shaft, 65 ft.; No. II shaft, 115 ft.; and tunnel 125 ft. During 1898, 114 tons of ore were shipped which averaged $17.00 per ton.

GIBSON MINING AND MILLING CO., Limited.

Registered in British Columbia, 12th September, 1898. Authorized Capital, $650,000, in shares of $1.00.

Officers:

E. W. Talbot, Spokane, Wash., President.
F. E. Lowery, Spokane, Wash., Vice-President.
Charles Scheel, Kaslo, B.C., Treasurer.

Head Office: Spokane, Wash.

Canadian Office: Kaslo, B.C., George Scheel, Attorney.

Owns and operates the Gibson and Palouse mineral claims, located on the South Fork of the Kaslo River, about 11 miles from the Town of Kaslo, Slocan District, Province of British Columbia. Development, at last report, was by several open cuts on surface and a cross-cut tunnel being run to tap all three leads. The first is tapped at a depth of 35 feet, the second will be tapped at 50 feet, and the third at 150 feet. The length of this tunnel will be 250 feet. A second tunnel has been run on No. 3 lead at a depth of 80 feet.

GLADIATOR GOLD MINING CO., Limited.

Incorporated under the Laws of the State of Washington. Authorized Capital, $600,000, in shares of a par value of $1.00.

Officers:

W. G. Tubby, President.
J. D. Finlay, Vice-Pres. A. B. Railton, Treas. D. M. McLeod, Sec'y.

Directors:

C. G. Reider. | J. D. Finlay. | A. B. Railton.
W. G. Tubby. | C. S. Wilson. | Joseph Reed.
D. R. Evans. | G. C. Monat. | C. F. Hollingsworth.

Head Office: Spokane, Wash.

Owns and is developing a mineral claim at head of Champion Creek, Trail Mining District, British Columbia.

GLASGOW AND MONTREAL ASBESTOS CO., Limited.

Registered in Edinburgh, Scotland, 23rd July, 1891. Authorized Capital, £70,000, divided into 35,000 preferred and 35,000 deferred shares of £1 each. The preferred shares rank first for non-cumulative dividends of 7 per cent. per annum, and take one-half the surplu profits, the remaining half going to the deferred. The preferred shares have also a priority as to capital.

CANADIAN BOARD:

E. Hanson, Montreal.

E. B. Greenshields, Montreal. William Ramsay, Montreal.

Glasgow Board:

R. E. Aiken, C.A. Wm. Jacks, M.P. W. H. Kidston.

Canadian Office: Black Lake, Que.

Scottish Offices: Messrs. Mackenzie & Aiken, C.A., Secretaries, 68 St. Vincent Street, Glasgow.

Formed to adopt and carry out an agreement with Robert Easton Aiken, chartered accountant and stock broker, in Glasgow, providing for the purchase by the company of the properties, mining rights and others, including the Martin mines in the Township of Coleraine, Megantic County, and the Fraser mines in the Township of Broughton and County of Beauce, both in the Province of Quebec, with all the mining machinery, plant tools and other personal property and the whole other rights, members and appurtenances; to carry on the business of asbestos producers, manufacturers and merchants of a mineral or mining company in all its branches. The property owned and operated was formerly worked by the Scottish-Canadian Asbestos Company. Work commenced in May, 1891, by present company. Engine equipment: Two 60 h.p. boilers; one 16 x 4 Ingersoll straight line 7-drill air compressor; two 8 x 12 Bacon winding engines; Blake and Cameron pumps; two small hoists, etc., etc. Mill building contains 60 h.p. boiler, horizontal Brush engine, Blake crusher, set 24 in. Cornish rolls, revolving picking tables, Sturtevant double exhaust blower, screens, etc., the whole of an estimated value of $50,000.

GLEN IRON MINING CO., Limited.

Incorporated 1891. Authorized Capital, $50,000, in 500 shares of a value of $100.

Directors:

E. A. Nash, President.
J. A. Mara. | J. W. Mackay.
J. O. Grahame. | F. J. Fulton.

Head Office: Frederick J. Fulton, Manager, Kamloops, B.C.

Formed to prospect for, acquire and work mineral claims and coal lands; the erection of the necessary plant; the operation of railway and steamship service. The property owned by the company consists of 165 acres in sections 19 and 30, Township 20, Range 19, west of the 6th Meridian, B.C. Small force employed. Ore worked is magnetite, and the works, which are situated contiguous to the line of the C.P.R., are supplied by a chute 300 feet long and a Pickett aerial tramway of a length of 1,300 feet. Up to the present time about 7,000 tons of ore have been mined and shipped chiefly to the Tacoma smelter.

GOLD AND SILVER MINES DEVELOPING CO., Limited.

Authorized Capital, $1,250,000, in shares of a par value of $1.00.

Officers:

Hon. Sir Wm. P. Howland, C.B., Toronto, President.
Robert Jaffray, Toronto, Vice-President.
Edward Trout, Toronto, Treasurer.
George G. S. Lindsey, Toronto, Secretary.
Alexander W. McDougald, Toronto, Managing Director.

Directors:

Sir Wm. P. Howland, Toronto. | Hon. T. Mayne Daly, Q.C., Rossland, B.C.
Robert Jaffray, Toronto. | John McMartin, Rossland, B.C.
Robert John Fleming, Toronto. | G. G. S. Lindsey, Toronto.
Edward Trout, Toronto. | A. W. McDougald, Toronto.
W. A. Henry, Halifax, N.S.

Head Office: G. G. S. Lindsey, Secretary, Toronto, Ont.
A. W. McDougald, Managing Director.

Owns and is developing the Trilby and Prince of Wales mineral claims, situated on the north slope of Lake Mountain, near Rossland, British Columbia.

GOLD BAR MINING AND DEVELOPMENT CO., Limited.

Incorporated under the Laws of British Columbia, 27th February, 1897.
Authorized Capital, $1,200,000, in shares of $1.00

Officers:

E. J. Lennox, President.
A. McBride, Vice-President. J. T. Sheridan, Treasurer.
J. S. Paterson, Secretary.

Head Office: J. S. Paterson, Secretary, Rossland. T. Alvin Helm, General Manager.

Owns and is developing the Gold Bar mineral claim, located half a mile north of the Boundary Line, (close to Northport) Trail Mining District, British Columbia.

GOLD BELL MINING COMPANY, Limited.

Incorporated under the Laws of British Columbia, 28th January, 1896.
Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

Perry Smith, President.
Harold Harold, Vice-President. D. W. McFadden, Treasurer.
Chas. S. Carpenter, Secretary.

Head Office: Chas. S. Carpenter, Secretary, 114 W. Columbia Avenue, Rossland.

Owns the Addie Bell and Blind Tom mineral claims, on the North Fork of the Salmon River, British Columbia.

GOLD BELT MINING COMPANY, Limited.

Incorporated under the Laws of British Columbia, 28th January, 1897.
Authorized Capital, $1,000,000.

Officers:

G. W. Yancy, President.
A. D. Eshelman, Treasurer. A. B. Ball, Secretary.

Head Office: 33 Union Block, Seattle, Wash.

CANADIAN OFFICE:
Rossland, B.C., John F. Miller, Attorney.

Owns the Sunset mineral claim, Keremeos District, British Columbia.

GOLD BUG MINING COMPANY, Limited.

Incorporated March 16th, 1899. Authorized Capital, $1,200,000, in shares of $1.00 each.

Officers:

W. J. Keating, President.
Hugh Steele, Vice-President. Carroll Corson, Secretary and Treasurer.

Directors:

W. J. Keating. Hugh Steele. Carroll Corson.
J. S. Hillyer. John H. Hill.

Head Office: Keystone Block, West Superior, Wis.

Canadian Office: Mine Centre, Ont.

Owns and is developing Mining Location 660 P., comprising 80 acres, known as the Alice A. mine, Seine River District, Ont.

GOLD CLIFF MINING AND DEVELOPMENT CO., Limited.

Incorporated April 17th, 1897. Authorized Capital, $1,000,000, in shares of $1.00 each.

Directors:

J. B. Klock, Klock's Mills, Ont.
J. J. Warren, Toronto, Ont.
J. Galt, M.E. City Hall, Ottawa.
H. Thorne, Toronto, Ont.
J. H. Starr, Toronto, Ont.
C. E. Thorne, Toronto, Ont.

Formed to carry on in all its branches the business of a mining, milling, reduction and development company.

GOLD CREEK MINES AND EXPLORATION CO. OF ONTARIO, Limited.

Incorporated 1897. Authorized Capital, $500,000, in shares of $1.00 each.

Directors:

J. J. Palmer, Toronto, Ont.
S. P. Palmer, " "
Edmond Baird Ryckman, Toronto, Ont.
A. T. Kirkpatrick, " "
H. N. Baird, Toronto, Ont.

Formed to carry on in all its branches the business of a mining, milling, reduction and development company.

GOLDEN AND FORT STEELE DEVELOPMENT CO., Limited.

Incorporated 8th April, 1897. Authorized Capital, $750,000, in shares of a par value of $1.00.

Officers:

Thomas McNaught, Fort Steele, B.C., President.
Alexander Allan, 1st Vice-President. | S. Barber, 2nd Vice-President.
Alexander McQueen, Treasurer. | George S. McCarter, Secretary.

Head Office: George S. McCarter, Secretary, Golden, B.C.

Owns and is developing a mineral property in the East Kootenay District of British Columbia.

GOLDEN BRITISH COLUMBIA EXPLORATION Limited.

Registered 1st April, 1898, and is a reconstruction of the Golden British Columbia, Limited. Authorized Capital, £60,000, in shares of £1.

Directors:

Rt. Hon. Lord Ribblesdale.
A. C. Mitchell Innes. | John Taylor, M. & C.E.
E. Taylor. | Sir George Warrender, Bart.

Head Office: F. H. Williams, Secretary, 5 Queen St. Place, London, E.C.

Owns and is developing certain mineral properties in the District of East Kootenay, British Columbia.

GOLDEN CACHE MINES CO., Limited.

Incorporated 10th July, 1897. Authorized Capital, $500,000, in shares of $1.00.

Head Office: 611 Hastings Street, Vancouver, B.C.

Owns the Jumbo, Ruby, Golden Eagle, Golden Stripe and North Star mineral claims, on Cayoose Creek, Lillooet District, British Columbia. Equipped with 10 stamp battery, Rand 3-drill compressor, etc. Work suspended.

GOLDEN CREEK MINES, Limited.

Head Office : Princeton, B.C.

Registered in British Columbia, 1898, with an Authorized Capital of £10,000, in shares of £1.

GOLDEN CRESCENT MINING AND EXPLORATION CO. OF ONTARIO., Limited.

Incorporated under the Laws of Ontario. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Directors :

H. M. Bradley. Chas. F. Leland. A. C. Hubbell.
J. P. Rossman. J. B. Kehl.

Officers :

H. M. Bradley, Duluth, President.
J. B. Kehl, Chippewa Falls, Wis., Vice-President.
Chas. F. Leland, Duluth, Treasurer.
George H. Claypool, Duluth, Secretary.

Head Office : 202 Palladio Building, Duluth, Minn.

Canadian Office : Mine Centre, Ont.

The company owns and operates mining locations A.D.2, A. D.3 and A. D.4, in the Seine River District, in the Province of Ontario, Canada, comprising 160 acres. There are nine distinct gold bearing quartz veins upon the properties. These locations, made in 1890, were among the first selected in that country. They were purchased by the A.D.2 Gold Mining Company, of Ontario, Limited, which did considerable work, but lacked the means and experience necessary to properly develop them. This company was organized for that purpose. It paid for the properties, besides some cash, 370,000 shares of the capital stock. Much development work has already been done, with excellent results. The main explorations are on what is known as the Gem vein and vein Number Two.

Gem Vein.—This vein outcrops for a distance of 900 feet on the property ; its width so far as exposed, varies from two to five feet, and it might be said that an average of at least 3 feet can be relied upon. Its strike is south 85 east, and the dip so far as shown up, is almost vertical. An adit has been run

GOLDEN CRESCENT MINING AND EXPLORATION CO.—Continued.

from the extreme west end for a distance of 120 feet and a shaft has been raised from the adit to the surface, a distance of 27 feet, and also sunk from the floor of the adit to a depth of 60 feet. This vein has also been attacked by a shaft 35 feet deep, at a point 200 feet east of the adit shaft No. 1 in the cross section. This vein is well mineralized, carrying iron pyrites, galena and zinc blende. Assays in the adit taken every 10 feet from the back, gave from $1.03 to $14.45, and the average of all gave $7.43 for an average width of vein 2½ feet. Samples down the sides of shaft No. 1 every 10 feet, gave from $2.06 to $22.71, averaging $8.23 with an average width of 2½ feet.

Assays down the sides of shaft No. 2 every 10 feet, gave $2.06 to $18.50, giving an average of $7.82 with an average width of vein 2½ feet.

Vein No. 2.—This vein can be traced a distance of 1,200 feet on the property. Its strike is south 45 east, with a dip almost vertical. This vein will average 6½ feet in width, and has been attacked on the extreme west end by an adit 150 feet in length, also by a shaft 10 feet deep, at a point 225 feet southeast of the mouth of adit, and known as shaft No. 2; by an 8 foot pit at a point 120 feet southeast of No. 2 shaft and another pit 7 feet in depth at a point 400 feet southeast of the last mentioned pit. Its average width between its walls on the surface is 6½ feet. In running the adit on this vein the owners, through some mistake, failed to follow the vein, and at a distance of 130 feet from the mouth they extended a cross-cut to the south a distance of 10 feet and found the main vein at that point solidly in place and having a width of 5 feet. Drifting on this vein at that point is still in progress.

In sampling the vein at shaft No. 2 down the sides and across the bottom, an average of $8 24 was obtained with an average width of quartz of four feet. An average assay of the extreme south-easterly pit gave $5.14.

There are a number of other strong veins on this property.

GOLDEN CROWN MINING CO. OF ONTARIO, Limited.

Incorporated 1897. Authorized Capital, $950,000 in shares of $1.00 each.

Directors:

B. Sawyer, Montreal, Que.
C. A Humphrey, Montreal, Que.
L. R. Baridon, Montreal, Que.
G. P. Capp, Montreal, Que.
G. W. Lovejoy, Montreal, Que.
C. S. Stroud, Montreal, Que.
G. H. Manchester.

Formed to carry on in all its branches the business of a mining, milling, reduction and development company.

GOLDENDALE MINING COMPANY, Limited.

Registered in British Columbia, 22nd November, 1897. Authorized Capital, $1,500,000, in shares of a par value of $1.00.

Directors:

J. D. Hinkle, President.
T. M. Ward. L. M. Hyde. E. D. Ide.

Head Office: E. D. Ide, Secretary, Spokane, Wash.

CANADIAN OFFICE:
L. M. Hyde, Nelson, B.C.

Owns and is developing the Goldendale mineral claim, on Toad Mountain, Nelson District, B.C.

GOLDEN DREDGE MINING CO. OF LONDON, CANADA, Limited.

Incorporated 1898. Authorized Capital, $80,000, in shares of $5.00 each.

Directors:

A. Keenleyside, London, Ont.
William Cole, London, Ont.
Robert Buller, Ridgetown, Ont.
R. F. Parsons, Buffalo, New York.
R. Hamilton, Ridgetown, Ont.
A. G. Deadman, Delaware, Ont.

Formed to carry on in all its branches the operations of a mining, milling, reduction and development company.

GOLDEN DRIP MINING AND MILLING CO., Limited.

Incorporated in British Columbia, 30th November, 1896. Authorized Capital, $500,000, in shares of a par value of $1.

Officers:

R. J. Bealey, President.
Joseph Dormitzer, Vice-President. W. G. Merryweather, Secretary.
W. J. Whiteside, Treasurer.

Head Office: Rossland, B.C.

Owns and is developing the Golden Drip mineral claim, located on O. K. Mountain, Trail Mining District, British Columbia.

GOLDEN EAGLE MINING AND EXPLORATION CO. OF ONTARIO, Limited.

Incorporated April 13th, 1899. Authorized Capital, $1,000,000, in shares of $1.00 each.

Directors:

J. P. Rossman, Duluth, Minn. | H. H. Phelps, Duluth, Minn.
C. L. Lewis, Duluth, Minn. | A. E. McManus, Duluth, Minn.
J. P. Johnson, Duluth, Minn.

Head Office: Mine Centre, Ont.

Formed to carry on in all its branches the operations of a mining, milling, reduction and development company.

GOLDEN EAGLE MOUNTAIN GOLD MINING CO., Limited.

Incorporated under the Laws of British Columbia, 30th January, 1897. Authorized Capital, $600,000, in shares of a par value of $1.00.

Directors:

J. Duff Stuart, President.
William Ralph. G. L. Allan. Griffith Griffith.

Head Office: A. Allayne Jones, Secretary, Vancouver, B.C.

Mines Office: Lillooet, B.C.

This company has acquired the Blue Pete and Eagle's Nest mineral claims, situated on Golden Eagle Mountain, in the Lillooet Mining Division of the Province of British Columbia.

The vendors accepted in payment for the two claims 600,000 shares, of a par value of $1.00 each, in the capital stock of this company. 200,000 shares were set apart for working expenses and development purposes, and of these shares 12,500 have been taken up at 20 cents per share, and the proceeds $2,500, paid to the company; the balance (187,500 shares) have been placed in the hands of Mr. C. C. Bennett, as Trustee, to be used, if required, for development purposes. Ninety per cent. of the 400,000 vendors' shares have been pooled in the hands of the Directors, not to be dealt with by the owners, and not to be sold until a dividend has been declared.

GOLDEN EAGLE SYNDICATE, Limited.

The Authorized Capital is £60,000, in 60,000 shares of £1 each.

Head Office: 3 Union Court, Old Broad Street, London, E.C.

This Syndicate was registered in England on the 27th January, 1898, to carry into effect an agreement dated 18th January, 1898, between H. Seton Karr of the one part, and H. Banyand as Trustee for this company of the other part, to acquire certain mines, &c., in British Columbia.

GOLDEN EARS MINING COMPANY, Limited.

Registered in British Columbia, 19th February, 1897. Authorized Capital, $40,000, in shares of a par value of $1.00.

Directors:

Dr. Thomas S. Hall, President.
James C. Smith. James Hadden. Jas. R. Webster.
W. V. Davies.

Head Office: H. A. Eastman, Secretary and Manager, New Westminster, B.C.

Owns and is developing the Rocket mineral claim, located on the east shore of Pitt Lake, 23 miles from New Westminster, British Columbia.

GOLDEN FISSURE MINING CO. OF ONTARIO, Limited.

Incorporated December 24th, 1896. Authorized Capital, $1,000,000, in shares of $1.00 each.

Directors:

V. Bedford, Toronto, Ont.
W. E. Burritt, Toronto, Ont.
D. A. McDonald, Toronto, Ont.
W. C. Kennedy, Toronto, Ont.
F. S. Wells, Toronto, Ont.
J. T. Sill, New York, N.Y.

Formed to carry on in all its branches the business of a gold mining and reduction company.

GOLDEN GOBLIN MINING CO. OF ONTARIO, Limited.

Incorporated January 20th, 1897. Authorized Capital, $500,000, in shares of $1.00 each.

Directors:

A. C. Thompson, Toronto, Ont. | R. A. Dickson, Toronto, Ont.
F. R. James, Toronto, Ont. | G. L. Lennox, Toronto, Ont.
J. F. Mitchell, Toronto, Ont.

Formed to carry on in all its branches the business of a mining, milling, reduction and development company.

GOLDEN GROUP MINING COMPANY.

Incorporated 1896. Authorized Capital, $100,000.

Directors:

G. E. Francklyn. A. M. Jack. W. A. Black. W. J. Butler.
A. A. Hayward.

Mines Office: D. McAskill, Mine Superintendent, Montague, N.S.

Head Office: A. M. Jack, Secretary, Halifax; A. A. Hayward, Managing Director, 175 Hollis Street.

Owns and operates certain gold areas at Montague, Halifax County, Province of Nova Scotia. Equipped with a 15 stamp battery and a suitable mining plant. The returns officially reported by the Mines Department in 1897 show a yield of 951 ozs. 5 dwt. from 1,199 tons rock milled.

GOLDEN PROVINCE MINES OF BRITISH COLUMBIA, Limited.

Incorporated 1897. Authorized Capital, £125,000, in shares of £1.

Directors:

J. Wilfred S. Lawton. | Geo. H. Hutchinson.
Wm. Ryland. | T. H. Vernon.

Advisory Board in Canada:

Dr. A. R. C. Selwyn, C.M.G. C. Frederick Law.

Head Office: Horace Cawood, Hartshead Chambers, Sheffield, Eng.

GOLDEN PROVINCE MINES—Continued.

Canadian Office: Chas. F. Law, Vancouver.

This company has been formed to purchase the lease of gold-bearing ground, dated the 27th July, 1896, granted to Mr. C. F. Law by an Act of the Legislature of the Province of British Columbia, known as the "Quesnelle Prospecting Act, 1895," and to develop, work or sell to subsidiary companies, as may be deemed most desirable, the auriferous gravels comprised in such lease, covering an area of 4,018 acres. The property consists of an old river channel, situated on Baker Creek, near Quesnelle, Cariboo District, B.C., and is held for a term of twenty years, subject to an annual rental of six per cent. of the net proceeds after deducting the cost of working and ten per cent. depreciation of plant, etc. The course of the old river bed having been located, a tunnel is being driven from Baker Creek to the gutter of the channel. In his report upon the property, Dr. Selwyn says: "The indications are precisely like those which occur in the celebrated Ballarat gold fields of Victoria, Australia, and in those of the lava-capped hills of California. There is, therefore, every reason to anticipate that this undertaking will be as richly rewarded as were those of Victoria and California." The necessary preliminary work of development has been carried out in an unusually economic and thoroughly efficient manner. It consists of a cleared and well graded wagon road from the Fraser River to the mine, a shaft 5 feet by 6 feet, well timbered, 265 feet deep; also a drive 200 feet long and cross-cut 50 feet to rim rock.

GOLDEN RIVER QUESNELLE, Limited.

Incorporated 1896. Authorized Capital, £350,000, divided into 103,000 ten per cent. cumulative preference shares of £1 each (of which, 80,000 are reserved for working capital), and 247,000 ordinary shares of £1 each. At an Extraordinary general meeting of the company, held on the 15th of March, 1899, the capital of the company was reduced from £350,000, divided into 103,000 preference shares of £1 each, and 247,000 ordinary shares of £1 each, to £164,750, divided into 103,000 preference shares of £1 each and 247,000 ordinary shares of 5s. each, and that such reduction be affected by cancelling paid-up capital which has been lost or is unrepresented by available assets to the extent of 15s. per share on each of the ordinary shares, and by reducing the nominal amount of the ordinary shares from £1 to 5s. each.

Directors:

Hon. Forbes Geo. Vernon.
Ross Robinson | Major F. I. Richard-Seaver.
Major C. T. Dupont. | G. Blake Walker.

GOLDEN RIVER QUESNELLE—Continued.

Advisory Board in British Columbia :

Sir Henry T. P. Crease. Hon. C. E. Pooley. Major C. T. Dupont.
F. B. Pemberton, C.E.

Canadian Office : Jaseph Hunter, C.E., Resident Managing Director, Quesnelle Forks, Cariboo, B.C.

Head Office : E. A. Foster, Secretary, 6 Great St. Helens, London, E.C.

Formed to acquire the rights and powers conferred by three Acts of the Legislature of British Columbia, viz.:—

The Quesnelle Lake Dam Company Act, 1881 ;

An Amendment Act, dated 12th May, 1883 ;

An Amendment Act, dated 21st February, 1895 ;

granting the exclusive right to extract the gold and precious metals in the entire length of the South Fork of Quesnelle River, and a portion of the main Quesnelle River, about 9½ miles, in the District of Cariboo, British Columbia.

The powers under the Acts of Parliament have been granted for a period up to 1st January, 1913, at an annual rental of $350 (about £70), and in consideration of the outlay to be incurred in the construction, on or before the 31st December, 1897, of a dam to pen back the waters of the Quesnelle Lake, and thereby enable mining for alluvial gold to be carried on in the bed of the river.

The purchase price for the property has been fixed at £270,000, payable as to £23,000 in cash, and the remainder in fully paid ordinary shares, or partly in cash and partly in shares, at the option of the Directors, leaving £80,000 available for issue as working capital.

REPORT OF THE DIRECTORS.

(*15th day of March*, 1899.)

The Balance Sheet embracing the period from the incorporation of the company to the 30th September, 1898, is herewith submitted.

The Dam and engineering works have been completed and answer their purpose satisfactorily. As will be seen from the Balance Sheet the cost of the construction of these works amounts to £47,644, or an excess of £1,724 over the estimated cost of £45,920. Considering the many improvements made on the original specifications in the construction of the Dam, the Board feel that great credit is due to the engineer for the manner in which the works have been carried out.

The Shareholders have been advised from time to time as to the results obtained from prospecting in the bed of the river, and the accompanying

GOLDEN RIVER QUESNELLE—Continued.

report by Mr. Hunter, dated 1st November, 1898, more fully explains the operations at the mine during the year.

Enclosed you will also find reports by Mr. Hunter, dated 1st November, 1898, and 13th January, 1899, respectively, with his recommendations for the future working of the bed of the river, and an estimate of the probable returns to be obtained as a result of the working during the present year (1899).

Major C. T. Dupont resigned his position as Managing Director of the company in August last, and the Board appointed Mr. Joseph Hunter, C.E., in his stead, it being essential that the Managing Director should reside at the mine. Mr. Hunter having designed and constructed the Dam, and possessing a long experience of alluvial mining, it is most important to have retained his services to the company.

The services of the Mining Superintendent, Mr. M. W. Loveridge, were dispensed with in September last, and accounts have been rendered for plant and goods supplied to the company, of which the company's Accountant at the works had no knowledge, amounting in all to some £3,000, and for which the company has to make provision.

As a result of the appeal made to the shareholders in June last for further working capital, debentures to the extent of £6,580 have been issued. Of this amount over £5,000 was subscribed by the Directors and their friends.

The Directors have anxiously considered the company's financial position and bearing in mind the poor response their last appeal for additional working capital by the issue of debentures, met with from the shareholders, they invited the largest holders of Preference shares to confer with them as to the best means of raising sufficient money to liquidate outstanding accounts and proceed with active mining.

As the result of this conference held on the 20th January, 1899, the shareholders present appointed a committee consisting of Mr. H. C. Graves and Mr. Wm. Edwards, to meet and confer with the Board.

The Directors have since had several conferences with the committee, and it has been decided to endeavour, in order to allow of mining to commence at the earliest possible date, to make an issue of First Mortgage debenture bonds, ranking in priority to the present debenture issue, which is only a floating charge.

The terms of the proposed new debentures, are that an issue be made of not exceeding £20,000 First Mortgage debenture bonds, secured upon the undertaking, property, and assets of the company, such bonds to carry interest at the rate of 10 per cent. per annum, payable half-yearly. Repayable in five years, but redeemable by the company at any time previously, on three months' notice in writing.

GOLDEN RIVER QUESNELLE—Continued.

The bonds will be issued at par, payable as to 25 per cent. on application, 25 per cent. on allotment, and the balance within two months after allotment. Interest will run on the amounts paid, from respective dates of payment.

The Vendors have enabled the company to offer the subscribers for these bonds, a bonus of 100 per cent. in fully-paid Ordinary shares of the company.

Existing debenture holders will have the privilege of converting their debentures at par, for debentures of the proposed new issue, but they will not be entitled to the above-mentioned bonus in shares.

Holders of the new debentures will have the right of exchanging them within the first two years for Preference shares of the company.

Should these endeavours prove successful, it is anticipated that the amount to be realised by the above issue will be sufficient to bring the property into a productive and dividend-paying condition.

The Board desire to impress upon the shareholders the urgency of providing the necessary funds without delay, to avoid losing the Spring mining season.

As the estimates of Mr. Hunter indicate that the profits from the working of the river may not come up to the original anticipations, the Board have suggested that the purchase price should be reconsidered, by a reduction in the nominal value of the Ordinary shares, which were issued in part payment for the property. The Vendors with a view of assisting the company in its financial arrangements and on account of the cost of the Dam having somewhat exceeded the estimate, have agreed to transfer to Trustees on behalf of and for the benefit of the company, 20,000 of their fully-paid Ordinary shares, and have also with some of the other large shareholders expressed themselves willing to allow their shares to be reduced from £1 to 5s. each.

Notice is therefore enclosed of an Extraordinary General Meeting of the company, to be held at the close of the Ordinary General Meeting, when the annexed Resolution will be submitted for the shareholders' approval.

The Directors fear that if sufficient money is not raised by the proposed issue of First Mortgage debenture bonds there will be no alternative but to liquidate or reconstruct the company. They are anxious to avoid this if possible, as in either case, the present holders of Preference shares would lose all preferential claims, their shares not being preferential as to capital, but only as to the 10 per cent. cumulative dividends

The Board deeply regret to record the death of their esteemed and valued colleague, Mr. Thomas Sopwith, on the 30th July, 1898.

Mr. A. Baldwin, M.P., has resigned his position as a Director of the company, not being able to devote sufficient attention to the company's affairs.

GOLDEN RIVER QUESNELLE—Continued.

The number of the Directors originally was seven. Three vacancies have occurred—two by death and one by resignation. The Directors have not filled up any of these vacancies, but suggest that the shareholders at the forthcoming Ordinary General Meeting should elect one of their number as a Director of the company.

The Directors have not drawn any fees since 30th September, 1897, neither have the Advisory Board since 31st December, 1897, nor the late Managing Director since 31st January, 1898.

It will be necessary for the shareholders to appoint the auditors for the ensuing year and to fix their remuneration. Messrs. Frank Davies, Meredith & Co. offer themselves for re-election.

By order of the Board,

E. A. FOSTER,
Secretary.

BALANCE SHEET—30TH SEPTEMBER, 1898.

Dr.

	SHARES.	£ s. d.	£ s. d.	£ s. d.
To Creditors, viz.:—				
London			2,341 10 6	
British Columbia			3,413 6 8	
				5,754 17 2
" Vendors				709 18 9
" To amount received on account of shares forfeited				698 7 6
" £10,000 7% *Debentures*:—				
Amount issued			6,580 0 0	
Deduct instalments unpaid			950 0 0	
				5,630 0 0
" *Share Capital*, viz.:—				
Ordinary shares, £1 each	247,000	247,000 0 0		
Do. unallotted	1,612	1,612 0 0		
	245,388	245,388 0 0	245,388 0 0	
10% cumulative preference shares, £1 each	103,000	103,000 0 0		
Do. unallotted	17,069	17,069 0 0		
	85,931	85,931 0 0		
Less calls in arrear		240 0 0		
		85,691 0 0		
Shares forfeited		2,466 0 0		
			83,225 0 0	
				328,613 0 0
				£341,406 3 5

GOLDEN RIVER QUESNELLE—Continued.

Cr.

	£ s. d.	£ s. d.
By purchase of property		270,000 0 0
" proportion of rent of lease unpaid to 1st July, 1896, due from vendors		902 1 3
" construction and maintenance of dam across the South Fork Quesnelle River, for expenditure thereon to date		47,644 14 10
" plant, implements, tools and furniture at cost		4,945 14 6
" Timber and general stores on hand at Quesnelle Forks, as per valuation of the Managing Director		4,174 1 11
" *General Expenditure at British Columbia*, viz.:—		
(from date of formation of company, 1st July, 1896, to 30th September, 1898.)		
Development and prospecting work	2,623 1 5	
Managing Directors' salary	1,391 15 0	
Advisory Board, legal and professional charges	881 3 7	
Rent, licenses, stationery and printing, travelling expenses, loss on exchange and cables	986 5 11	
	5,882 5 11	
Less grant from Government of British Columbia, $4,000. £824 14 9		
Sale of Gold 141 17 2		
	966 11 11	
		4,915 14 0
" *General Expenditure in London*, from date of formation of company, 1st July, 1896, to 30th September, 1898, viz.:—		
Engineer's reports, general expenses, stationery, printing, travelling expenses and cables	719 0 0	
Directors' fees	4,806 19 2	
Secretary and rent of offices	899 14 6	
Legal and professional charges	207 11 5	
Debenture interest accrued	79 17 0	
Commission on debenture issue	415 0 0	
	7,128 2 1	
Less interest £120 19 7		
Transfer fees 33 12 6		
	154 12 1	
		6,973 10 0
" Cash at London bankers and in hand	2,513 5 2	
" Less overdraft at British Columbia	662 18 3	
		1,850 6 11
		£341,406 3 5

GOLDEN RIVER QUESNELLE—Continued.

MANAGING DIRECTOR'S REPORT, 1898.

DEAR SIR,—I beg to submit the following report on the operations of this company for the year ending 30th September, 1898.

1.—DAM CONSTRUCTION.

In a report to the Managing Director, Major C. T. Dupont, dated 1st October, 1897, I summarised the work accomplished up to that date, and in subsequent reports, which you will have received, I have dealt with matters in reference to the progress of the work.

During the winter of 1897-98 the work was carried on under somewhat unfavourable conditions, arising from the effects of severe frost and the early and heavy snowfall. It was not, under the circumstances, possible to employ with economy a large force of men on the work, even if it had been necessary to do so.

The object to be attained was, that before the opening of spring the work of construction should be sufficiently far advanced to facilitate mining operations by the unwatering of the river.

The floor of the raceway was completed on the 3rd November. This portion of the work measures 47,510 square feet, and absorbed 190,040 feet board measure of 4 inch plank and 18,520 running feet of foundation piling.

The temporary dam thrown across the river as the backing and shelter for the construction of the main dam was successfully closed on the 14th December. The gates were finished and closed on the following day and the river unwatered; the leakage through the temporary dam under a head of 5 feet amounting to not more than 900 miner's inches, and it at once became possible to do a considerable amount of prospecting in the river bed.

Meantime the construction of the main dam was proceeded with.

The foundations of the dam consist of four rows of round piling; the first and third rows driven close, cut off 17 feet below the crest of the dam, or 3 feet below the level of the gate sills.

A layer of clay puddle was utilised to close the junction between the lower course of timbers in the front wall of the dam and the top of the close piling upon which they rest, and to which they are bolted.

The remaining vertical and horizontal joints of the front wall timbers and the dovetail seats were carefully caulked and are absolutely watertight. The foundations involved the cutting, preparing and driving of 37,000 running feet of round piling.

The cribbing of the dam was finished on the 28th February, and, as the works were then in a position to permit of the commencement of mining, the filling of the cribbing was leisurely proceeded with after the frost had left the ground.

GOLDEN RIVER QUESNELLE—Continued.

The dam seems to answer admirably the purpose for which it was intended. It has withstood the high water of one season without showing the slightest signs of failure in any particular. The massive gates—14 ft. by 12 ft.—are operated with ease under a heavy pressure.

The structure 887 feet in length, including the raceway, is built on gravel formation from end to end. Under a head of 13 feet the leakage, together with the water from several lateral streams joining the river below the dam, is sufficient only to fill, 1 foot deep, a flume 4 feet wide with a fall of ½ inch in 12 feet.

The average rise in the lake per day since the gates were closed on the 11th ult. is $\frac{1}{20}$ of a foot, a result somewhat more favourable than was expected.

The Amended Act under which the lease of the river is held stipulates that the works of construction shall be completed by the 31st December, 1897, but as it became apparent that the time limit would be exceeded, the Government was consulted with the view of having the time for completion extended, and during the last session of the Legislature, an Act was passed fixing the 31st December, 1898, as the date for completion.

On the 17th October, I notified the Chief Commissioner of Lands and Works that the Dam and works contemplated under the Act had been completed for some time, and in successful operation since the 11th September.

Under date of the 27th ult., the Chief Commissioner acknowledges the receipt of the above notification.

2.—MINING.

Up to the 2nd October last, the Mining department had been conducted under the superintendence of Mr. Joseph McGillivray and of Mr. M. W. Loveridge.

Mr. McGillivray arrived on the ground on the 12th August, 1897, and very soon thereafter commenced preparations for mining operations. A large quantity of lumber was ordered, and axemen were employed in the erection of buildings and in preparing hewn timber for the flumes and sluice boxes.

A road was also built from the Dam to Quesnelle Forks, which has been of immense benefit to the company.

Prospecting in the river was commenced by Mr. McGillivray on the 16th December, 1897, the gates having been closed and the river unwatered, as already stated, on the 15th of the same month.

Reports which you are no doubt in possession of, in respect to the prospecting, and which I understand were of a favourable character, were made from time to time to the Managing Director, Major C. T. Dupont.

Mr. McGillivray having pretty well settled his plan of operations in respect to the working of the river, left on leave of absence in January, 1898,

GOLDEN RIVER QUESNELLE—Continued.

and shortly after he severed his connection with the company. He subsequently returned to the Dam to settle up his affairs, and had an opportunity of consulting with the new Mining Superintendent, Mr. M. W. Loveridge.

Mr. Loveridge was appointed Mining Superintendent on the 25th January, 1898, and took charge of the Mining department on the 3rd of February following. He at once proceeded to test the river bed at various points, and by the middle of April had concluded that the results obtained would justify him in proceeding with mining operations on an extensive scale.

Immense quantities of lumber were ordered, additional buildings were erected, and large quantities of mining tools and appliances were provided in addition to the supplies which Mr. McGillivray had deemed to be necessary, and had ordered.

On the requisition and recommendation of Mr. Loveridge, orders were placed and a contract entered into for three derrick plants, including engines, boilers and fittings, with the British Columbia Iron Works Company, of Vancouver. That company, by reason of financial difficulties, threw up the contract, and the order was transferred to a San Francisco firm, by whom the machinery was subsequently furnished, at no additional cost, but the delay incurred was so serious that it was not possible to commence mining operations in the river until the 25th September.

It might be well to mention here that Mr. Loveridge at first intended to clear the boulders from the river bed by means of a wire cableway, but on visiting California, changed his mind, for reasons of which I am unaware, and adopted the plan of doing the work by derricks.

My connection with the Mining Department commenced on the 24th of August last, under agreement of that date appointing me Managing Director, and on the 1st September I arrived on the works.

Mr. Loveridge then appeared to have his plans perfected and everything in readiness for the commencement of mining, upon the arrival of the necessary machinery.

The first derrick was erected in the vicinity of Camp No. 2, at French Bar, where good prospects had been obtained.

The result of the mining on the ground covered by the first derrick reach, as cabled you on the 15th October was disappointing and very far from realizing the expectations of the Mining Superintendent, who, it appears to me, was much too sanguine in all his estimates in reference to mining operations and results.

These derricks, a patent of Mr. Loveridge, sr., father of the ex-Mining Superintendent, are, no doubt, excellent appliances when operated under conditions favourable for their use. They are heavy and cumbersome, and as in river mining, they, together with engines and boilers, have to be dis-

GOLDEN RIVER QUESNELLE—Continued.

mantled and moved every five or six days a distance of 300 feet over rough, uneven, rocky ground, the cost of operating them becomes enormous. I am, therefore, of opinion that the derricks are not well suited for the work they were expected to perform.

This conclusion was arrived at after the first derrick reach had been cleared of boulders, the second derrick erected and the expense account analysed.

I found it necessary on the 2nd October to relieve Mr. Loveridge of his duties as Mining Superintendent, and I have since that date taken the active management of the Mining Department.

After a careful examination I came to the conclusion that on the portion of the river covered by the water flume erected by Mr. Loveridge, a distance of 2,000 feet, there does not exist a sufficient amount of gravel to justify the use of the derrick plant, indeed it appears to me that a commencement was made on a stretch of the river, where, if anywhere, the system of mining adopted would prove a failure.

Taking all the circumstances connected with the company into consideration, and in view of the lateness of the season, I did not deem it advisable to incur the considerable expenditure necessary to move the machinery to a distant point on the river, where the conditions seemed to be favourable for operating it, more especially, as no certainty existed of obtaining adequate returns for the expenses incurred.

I, therefore, removed the derricks, engines and boilers to a place of safety, beyond the reach of high water, at an expense of $220, and set a small force to work at a point on the river 1,500 feet up stream from the point where the derricks were at work.

The result, so far, is a profit of over 100 per cent. on the working expenses. The handling of the rocks and boulders with which the river bed is covered, is, no doubt, a drawback, and a light derrick operated by hand would, in my opinion, on certain portions of the river at any rate, facilitate the work and answer every purpose.

The buildings erected at Camp No. 1, near Salmon Falls, consist of dining room, kitchen, two bunk houses, office, warehouse, blacksmith's shop, cellar and out-buildings; the total floor space being 4,080 square feet.

A similar class of buildings has been erected at Camp No. 2, near French Bar, with a total floor space of 5,001 square feet.

An inventory of all the mining plant, tools, supplies, etc., now on hand is herewith enclosed, from which you will no doubt infer that it was proposed to carry on the work of mining on a very comprehensive plan.

The conclusions at which I have arrived in reference to the mining operations up to this date may be briefly stated as follows: —

GOLDEN RIVER QUESNELLE—Continued.

1. That no results either in providing suitable appliances, or in the amount of work done, have been obtained commensurate with the large expenditure shown by the mining account of near $60,000.

2. That the existence of gold in the river bed, in paying quantities, has been proven by the recent mining operations.

3. That success can be attained only by caution and economy in the handling of men and materials, and that no step should be taken or work done that does not, after deliberate investigation, give reasonable promise of compensating results.

Yours faithfully,

(Signed) JOSEPH HUNTER.

OUTLINE OF OPERATIONS 1899

By Resident Managing Director.

SPRING SEASON, 1899.

Commenced work on 15th March. All flumes in position and mining in full operation by 25th March, and continued till 25th May 61 days.

15th March to 25th April, 60 men employed...	2,520 days	
26th April to 25th May, 75 " " ...	2,250 days	
	4,770 days	
Laying flumes..... 300 days		
Removing flumes..... 100 days		
	400 days	
Actual time available for mining.....	4,370 days	
1,457 days mining on upper section at $ 9.....		$13,113 00
2,913 days mining on lower section at 15.....		43,695 00
Gross amount from mining, day shift.....		$56,808 00
Gross amount from night shift, one third less.....		37,872 00
		$94,680 00

EXPENSE.

Laying flumes, etc., 300 days at $2.75.....	$ 825 00	
Removing flumes 100 days at 2.75.....	275 00	
Mining 1,000 days at 3.00.....	3,000 00	
Mining 3,370 days at 2.75.....	9,267 50	
Wages—Night shift.....	12,000 00	
Office expenses, etc.....	2,000 00	
		$27,367 50
		$67,312 50
Less 10 per cent. for contingencies.....		$6,731 25
Estimated net output for Spring season.....		$60,581 25

GOLDEN RIVER QUESNELLE—Continued.

AUTUMN SEASON, 1899.

Commenced work 5th August. All flumes laid and mining in full operation by 15th August, and continued to 1st November 79 days.

5th August till 31st August, 60 men employed..		1,620 days
1st Sept., to 31st October, 75 men employed..		4,575 days
		6,195 days
Laying flumes	400 days	
Removing flumes.....	120 days	
	——	520 days
Actual time available for mining.....		5,675 days

2,000 days on upper section, at $ 9.00.....	$18,000 00
3,675 days on lower section, at 15.00.....	55,125 00
Gross amount from mining, day shift	73,125 00
Gross amount from mining, night shift, one-quarter less.	54,843 75
	$127,968 75

EXPENSE.

Laying flumes	400 days at $2.75	$ 1,100 00	
Removing flumes	120 days at 2.75	330 00	
Mining	2,000 days at 3.00	6,000 00	
Mining	3,675 days at 2.75	10,106 25	
Wages—Night shift.....		15,000 00	
Office expenses, &c.....		2,500 00	
			35,036 25
			$92,932 50
Less 7 per cent. for contingencies			6,505 27
Estimated net output Autumn season.....			$86,427 23

ABSTRACT.

Estimated net output, Spring season	$60,581 25
Estimated net output, Autumn season.....	86,427 23
Estimated total net output for 1899	$147,008 48

Or say £30,000.

JOSEPH HUNTER.

GOLDEN STAR MINING AND EXPLORATION CO. OF ONTARIO, Limited.

Incorporated under Ontario Statutes, 1897, and reorganized 1899. Authorized Capital, $1,200,000, in shares of a par value of $1.00.

Directors :

Hon. S. C. Wood, President.
Hugh Blain, Vice-President.

James Milburn. | Thomas Walmsley. | John Flett.
H. R. O'Hara. | Robert Bowie. | V. P. Chappel.

Head Office : H. R. O'Hara, 24 Toronto St., Toronto, Ont.

Mine Office : Mine Centre, Ont., R. A. Kerr, Superintendent.

In February, 1897, a number of Duluth people became interested in the Seine River District, Ontario, and in conjunction with Messrs. V. P. Chappell, James H. Bennett and George V. Burgess, the two former of Manistique, Michigan, and the latter of Duluth, formed a pool for the purpose of picking up some of the best prospects, with the object of investigating the worth of the field. Afterwards, this combination incorporated itself as "The Seine River and Rainy Lake Exploration Company," which company proceeded to explore such of the most promising properties in and around Bad Vermillion Lake, as were recommended by experts of known experience and good standing, and as a result of such explorations, the Seine River and Rainy Lake Exploration Company purchased and now holds in fee, by trustee, about one thousand acres of the most promising locations, the titles to which are perfect and unencumbered.

About the 1st of March, 1897, Mr. Ward advised the purchase by the company of mining locations A.L. 114 and A.L. 116, near Bad Vermillion Lake, then owned by the Randolphs, and after careful investigation and exploration, the Seine River and Rainy Lake Exploration Company, aforementioned, took an option on said properties at thirty thousand dollars, running in payments for nine months, the whole to be paid by the 16th of January, 1898.

By entering into this contract the Seine River and Rainy Lake Exploration Company had undertaken rather a larger work than at first contemplated, but nothing daunted, the promoters caused to be organized the Golden Star Mining and Exploration Company of Ontario, Limited, and said company purchased the working option mentioned above, paying therefor its entire capital stock.

After doing two or three months' work on the locations A.L. 114 and A. L. 116, the promoters became convinced that the property was of value,

GOLDEN STAR CO—Continued.

and believing that, as was seemingly apparent, the vein of the Golden Star extended to and across mining location J.O. 41, next adjoining said locations A.L. 114 and A.L. 116, the promoters entered into negotitations for, and finally caused to be purchased by the J.O. 41 Gold Mining Company of Rainy River, Limited, organized for that purpose, the mining location J.O. 41, consisting of 105 acres and having the continuation of the Golden Star vein appearing across its surface.

After making the first payment on the contract of purchase of the Golden Star property, the then promoters of the company succeeded in interesting Messrs. Lewis A. Hall, of Bay Mills, Michigan, and W. H. T. Hughes, of New York City, and their associates in the company, and finally, after careful investigation, those gentlemen decided, in consideration of fifty-one per cent. of the stock of the company, to pay and did pay the original purchase price of thirty thousand dollars for the property, and the title was thereupon vested in the Golden Star Mining and Exploration Company of Ontario, Limited.

They also agreed to advance sufficient money to finance the mine and buy sufficient machinery so that the property would be on a paying basis and self-sustaining, and entered into a contract to that effect, by the terms of which they were to be reimbursed out of the first proceeds of the mine, for all funds advanced by them for such development and machinery, (but not for the original thirty thousand dollars paid for the property).

Work has been pushed as fast as the exigencies of the case would permit. A shaft was rapidly sunk in a quartz body averaging four feet in width, and running on an average, about twenty-seven dollars to the ton in free gold, until to-day there is over fourteen hundred feet of work underground.

In June, 1898, the company began putting in its stamp mill and accessories, consisting of a full and complete outfit for thirty stamps with frue vanners, concentrators and every modern improvement. The mill site is on mining location J.O. 41 (by agreement with the J.O. 41 Gold Mining Co. of Rainy River, Limited) on the banks of Bad Vermillion Lake. Ten stamps of the thirty were installed and started to work on the eighth of November, 1898, and have been steadily pounding out the quartz from that date on, with the exception of about two weeks lost by unavoidable accident and mishap to the machinery. The site of the mill is about twenty-seven hundred feet from the mine, and the ore is transported to the mill by an Otto aerial tramway capable of carrying one hundred and twenty tons per day.

The mine, mill and buildings are lighted by electricity and the mining is done with the latest improved Rand air compressor drills.

The property is reached by two routes, one that is known as the Tower route from Duluth, Minnesota, and the other is that from Rat Portage by

GOLDEN STAR CO.—Continued.

steamer direct to the company's mill. A third is now in process of construction in the railroad being built from Port Arthur, Ontario, direct to the north shore of Bad Vermillion Lake, which road it is expected will be completed during the present summer.

The controlling interest having been transferred to Canadians, the company was reorganized into the present company in June, 1899.

PRODUCTION (FIGURES GIVEN BY OLD COMPANY).

MONTH ENDING	Bullion.	Concentrates.	Total.
December 12th, 1898.....	$8,697 50	$1,700 00	$10,397 50
January 5th, 1899.....	6,674 49	1,400 00	8,074 49
February 5th, 1899.....	12,514 40	3,500 00	16,014 40
March 12th, 1899.....	13,342 96	8,000 00	21,342 96
April 10th, 1899	13,000 00	6,300 00	19,300 00
Total	54,129 35	$20,900 00	$75,029 35

The average value of the ore mined has been about $19.00 per ton, and cost of mining and milling about $4.00 per ton. The mill has a capacity of over 1,000 tons per month.

MINING AND MILLING PLANT.

Compressor—1 Rand, 6 drill capacity.
Drills—4 Rand 3 in.
Boilers—1 40 h.p.; 2 80 h.p.
Hoisting Engine—One cyl. 8 x 12 in., dia. of drum 38 in.
Pumps—6 in place, various makes.
Rock Breaker—1 Comet.
Aerial Tramway—Capacity 120 tons per day.
Stamp Battery—Steam driven; at present 10 stamps, to be increased to 30; stamps weigh 1,020 lbs.; drop 97 per m.; 40 mesh screen; Champion ore feed; 4 frue vanners; 90 per cent. of concentrates recovered.
Saw Mill—Having a capacity of 10,000 feet per day.
Lighting—One 60 light and 100 light dynamo.
Employes: 45 at date of report.

GOLDEN WEDGE MINING COMPANY, Limited.

Incorporated 5th December, 1896. Authorized Capital, $1,500,000, in shares of a par value of $1.00.

Officers:

Joseph Leduc, President.
Smith M. Weed, Vice-President. Hon. T. Mayne Daly, 2nd Vice-President.
Elmer F. Botsford, Secretary-Treasurer.

Head Office: Elmer F. Botsford, Secretary-Treasurer, 20 Nassau Street, New York.

Canadian Office: Rossland, B.C.

GOLD EXPLORERS OF CANADA, Limited.

Registered 26th October, 1896. Authorized Capital, £100,000, in 100,000 shares of £1 each; 83,507 shares have been issued and are fully paid, 82,000 (vendor's) being issued credited as fully paid.

Directors:

Wm. John Tanner, Chairman.
Alfred Edward Ann. Col. Francis McDonell.
Col. Sir Walter Rice Olivey.

Head Office: Frank Fuller, Tower Chambers, Finsbury Pavement, London, E.C.

Formed to acquire from the Mines Contract Company, Limited, and others, 40 mining properties, about 2,359 acres in extent, held by lease direct from the Crown, and situated in Ontario. The purchase consideration was £82,000, payable in fully paid shares. It is intended to float subsidiary companies.

GOLD FIELDS OF BRITISH COLUMBIA, Limited.

Registered 1897. Authorized Capital, £600,000, in shares of £1: 426,642 shares have been issued, 375,000 (vendors') being issued credited as fully paid, and 51,642 having 15s. per share called up.

Directors:

Right Hon. the Earl of Essex.
Col. Henry Fludyer.
Ernest Grant-Govan.
Col. T. H. Austey.
F. Callow Hole.
Alexander Matheson.

GOLD FIELDS OF BRITISH COLUMBIA—Continued.

Canadian Board:

Hon. C. E. Pooley. Hon. David W. Higgins. David R. Ker.

Head Office: R. Stanley Williams, Secretary, 16 Copthall Avenue, London, E.C., England.

Canadian Offices: Inns of Court Building, Vancouver, B.C., and Revelstoke, B.C.

Organized to carry on the business of a general exploration, prospecting, development, mining, trading and financial corporation in British Columbia. For these purposes a contract has been entered into for the acquisition of the following mining properties and town sites, aggregating about 3,300 acres.

1. Ten mineral properties forming part of the Albert canyon and Downie Creek group, containing in all about 450 acres, as follows:—The Waverley, Montague, Oldham, Tangier, Detroit, Nethercluny, Vancouver (fraction), Strandberg (fraction), Spider (fraction), and Fly (fraction).

2. The mining properties formerly belonging to the Channe Mining Company, Limited, a corporation established in British Columbia in 1896, with a capital of $1,000,000. These properties consist of the following claims, upon which more or less development work has been done, and are as follows:—1. Bobby Burns, 52 acres; 2. Hetty Green, 52 acres; 3. Daniel Webster, 52 acres; 4. Seattle, 52 acres; 5. Highlander, 52 acres; 6. Estero, 52 acres; 7. Joe. Jefferson, 52 acres; 8. Poodle Dog, 52 acres; 9. Black Swan (fraction); 10. Tom Moore, 52 acres; 11. Ingersoll, 52 acres; 12. R. E. Lee, 52 acres; 13. Nancy Hanks, 52 acres; 14. One-half interest in Belmont, 52 acres; 15. Three-fourths interest in Olga, 52 acres; 16. Picnic (fraction).

3. Six hundred and forty acres known as the Chrome valley claims, situated in the Similkameen District of British Columbia, and stated by the vendors to consist of auriferous gravel.

4. One-half interest in the Flossie L. mine, the property of the Rossland Gold Mining Company. This mine is situated on Spokane Mountain, in the Trail Creek Division of British Columbia, and close to the Town of Rossland.

5. One-half interest in the Little Darling mine, the property of the Little Darling Gold Mining Company. This mine is situated on Red Mountain, in the Trail Creek Mining Division of British Columbia, and close to the Town of Rossland.

6. One-half interest in the mineral properties known as the Little Flo, Victoria, the Handy and Prospector, all situated in the Trail Creek Mining Division of British Columbia or within four miles of the Town of Rossland.

GOLD FIELDS OF BRITISH COLUMBIA—Continued.

7. One-half interest in the mineral properties known as Confederation, Oswego, Eureka, New Dominion, Queen of the Hills, Sholto and Golden Chariot, situated in the Northern Division of West Kootenay, British Columbia.

8. Valuable options for the purchase of other nine claims forming part of the group known as the Albert canyon and Downie Creek mining properties, in all, extending to more than 460 acres, and named as follows:—Nelson, Truro, Burlington, Dartmouth, Climax, Toronto Chief, Snowball, Victoria, Revelstoke.

These mining properties cover an area of nearly 3,000 acres.

Town Sites.—(A.) Thurlow town site, situated on Thurlow Island. With regard to this site, the vendors supply the following information, which is founded upon reports obtained by them:—The extent of this town site is 160 acres, and it includes a water frontage of about 2,000 feet.

Included in the contract to purchase are the whole of the assets and rights possessed by the Shoal Bay Trading Company. The trading post was opened in the middle of June, 1896, and by the 1st October had sold more than $5,000 of supplies, the net profit being about $1,500.

It is the intention of the Directors to engage the services of practical and experienced prospectors, who will, on behalf of the company, explore some of the very large areas of the comparatively unexplored territory of the province.

The price to be paid for the whole of the property to be acquired by the company has been fixed by the vendors, who are selling at a profit, at the sum of £400,000, payable as to £40,000 in cash, £200,000 in fully paid-up shares, and as to the balance of £160,000, in cash or fully paid shares, at the option of the Directors.

The company has since floated the Waverley Mine, Limited, and the Tangier Mine, Limited.

GOLD HILL QUARTZ MINING CO. OF FAIRVIEW. Limited.

Authorized Capital, $750,000, in shares of a par value of $1.00.

Directors:

A. A. Davidson. Wm. A. Dier. Arthur Neaves,
all of Victoria, B.C.

Head Office: Victoria, B.C.

Formed to acquire the mineral claim known as the Gold Hill, in Fairview Camp, Osoyoos Division of Yale, British Columbia.

GOLD HILLS EXPLORATION & DEVELOPMENT CO. OF TORONTO, Limited.

Incorporated January 27th, 1897. Authorized Capital, $2,000,000, in shares of $1.00 each.

Directors:

J. D. Edgar, Q.C., Toronto, Ont.. | W. J. Douglas, Toronto, Ont.
Dr. F. W. Strange, Toronto, Ont | G. McMurrich, Toronto, Ont.
J. Foy, Toronto. Ont. | J. G. Bowes, Hamilton, Ont.
J. B. McArthur, Rossland.

Formed to carry on in all its branches the business of a mining, milling, reduction and development company.

GOLDIE RENE MINING COMPANY, Limited.

Incorporated 13th June, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Directors:

John Y. Cole. Henry A. Phillips. James Watts. Edgar Charles.
Walter F. Russell.

Head Office: John Y. Co e, Managing Director, Rossland, B.C.

Owns and is developing the Goldie and Rene mineral claims, situated on Sullivan Creek, about one mile from the Columbia River, Trail Creek Mining Division, British Columbia.

GOLD KING MINING CO. OF TORONTO, Limited.

Incorporated 1897. Authorized Capital, $2,000,000, in shares of $1.00 each.

Directors:

Dr. J. Craig, Baltimore, Md. | T. S. Lawson, Baltimore, Md.
C. B. Seltzer, Baltimore, Md. | H. R. Buckley, Baltimore, Md.
W. Richardson, Baltimore, Md.

Formed to carry on in all its branches the business of a mining, milling, reduction and development company.

GOLD LEAF MINING CO. OF ONTARIO, Limited.

Incorporated 19th April, 1899. Authorized Capital, $900,000, in shares of $1.

Directors:

A. Simpson, Ottawa. | A. T. Mohr, Buffalo.
M. J. O'Brien, Renfrew. | H. W. Brown, Ottawa.
J. B. O'Brien, Toronto.

Head Office: Ottawa, Ont.

Formed to carry on in all its branches the operations of a mining, milling, reduction and development company.

GOLD RESERVE MINING CO. OF ONTARIO, Limited.

Incorporated February 22nd, 1899. Authorized Capital, $99,000, in shares of $1.00 each.

Directors:

F. Wyld, Toronto, Ont. | A. A. Allan, Toronto, Ont.
J. Flett, Toronto, Ont. | A Darling, Toronto Ont.
J. Carruthers, Toronto, Ont. | J. T. Moore, Toronto, Ont.
J. K. Kerr, Toronto, Ont.

Head Office: Toronto, Ont.

Formed to carry on in all its branches the operations of a mining, milling, reduction and development company.

GOLD SUN MINING COMPANY, Limited.

Incorporated April 13th, 1899. Authorized Capital, $250,000, in shares of $1.00 each.

Directors:

G. A. Kaercher, Cleveland, Ohio. B. Schalzinger, Cleveland, Ohio.
H. R. Palmer, Cleveland, Ohio.

Head Office: Windsor, Ont.

Formed to carry on in all its branches the operations of a mining, milling, reduction and development company.

GOLD QUARRY MINING CO., Limited.

Incorporated 25th May, 1899. Capital, $900,000, in shares of $100.00.

Directors:

G. F. Benson, Montreal, Que. D. Munroe, Cornwall, Ont.
A. E. Follows, Valleyfield, Que.

Head Office: Cornwall, Ont.

Formed to carry on in all its branches the operations of a mining, milling, reduction and development company.

GOLD QUARTZ FREE MILLING, MINING AND DEVELOPMENT CO., Limited.

Incorporated under the Laws of Ontario, 11th June, 1897. Authorized Capital, $2,000,000, in shares of $1.00.

Directors:

J. M. Staebler, Berlin, Ont., President.
J. Tolmie, M.P., Kincardine, Ont. | Wm. Dynes, Dufferin County, Ont.
Wm. Maguire, Toronto, Ont. | E. H. Hilborne, Toronto, Ont.
J. Currie, Toronto, Ont. | Dr. S. M. Hay, Toronto, Ont.
W. G. Page, Toronto, Ont.

Head Office: E. H. Hilborne, Manager and Secretary, 24 Manning Arcade, Toronto.

Mine Address: R. R. Stratton, Superintendent, Tache Station, Ont.

The company owns and is developing Mining Locations V. 33 and 32, also Quartz Island, situated in the Sunset Channel, Lake of the Woods, Ontario. The following statement shows the affairs of the company from June, 1897, to 31st December, 1898:—

RECEIPTS.

Received from sale of stock		$11,254 82

DISBURSEMENTS.

Real estate	$ 7,259 50
Printing, advertising, books and stationery	154 80
Postage, telegraph and telephone	139 62
Office furnishings	67 50
" sundry expenses	32 66

GOLD QUARTZ CO.—Continued.

Rent and insurance	$ 115 90
Salaries and wages	1,131 19
Freight and express	38 35
Provisions, board, explosives and camp exp.	119 73
Travelling expenses	161 95
Legal and organization expenses	385 00
Loans repaid	277 80
Plant, tools and camp fittings	310 83
Commission and discounts	579 09
Cash on hand	480 90
	$11,254 82

PROFIT AND LOSS FROM JUNE '97 TO DEC. 31ST, '98.

Printing, advertising, books and stationery	$ 129 80
Postage, telegraph and telephone	139 62
Office expenses	32 66
Rent and insurance	115 90
Salaries and wages	851 19
Freight and express	38 35
Provisions, board, explosives and camp exp.	94 73
Travelling expenses	114 15
Legal and organization expenses	385 00
Loans repaid	277 80
Commission and discount	579 09
	$2,758 29

GOLD REEFS SYNDICATE OF LAKE SUPERIOR, Limited.

Proposed Capital, $130,000, in 1,300 shares of $100 each.

At date of going to press this company was being formed for the purpose of purchasing from the Hon. J. C. Patterson, Lieutenant-Governor of Manitoba, the mineral and mining rights in a group of islands in Lake Superior, known as the Slate Islands, situated about six miles south of Jackfish Station on the C.P.R., in the north-east corner of Lake Superior. These islands contain nearly 9,800 acres, and are held by the Hon. J. C. Patterson, under title as "mining lands," by Patent direct from the Crown, of the 3rd February, 1882, subject to the reservations therein mentioned. There are two prior mining locations upon the islands. These are of small extent, consisting of Mining Location 91 Z., on North Slate Island, of 103 acres, and Mining

GOLD REEFS SYNDICATE—Continued.

Location Y. 25, on the southerly island, of one hundred and five acres. The objects of the proposed syndicate include the development and working of the mineral deposits on the islands, and more especially of the gold-bearing quartz veins thereon. It is proposed that the syndicate, when incorporated, shall purchase from the Hon. J. C. Patterson, on the terms below mentioned, the mineral and mining rights in the islands for $20,000 in money and $58,500 in paid-up-stock of the syndicate (being 585 shares, representing 45 per cent. of the total capital). The remaining $71,500 of the proposed capital stock of the syndicate (715 shares of $100 each), being 55 per cent. of the total capital stock, are to be offered for subscription.

GOODENOUGH MINES, Limited.

Incorporated 2nd March, 1897. Authorized Capital, $800,000, in shares of $1.00.

Directors :

J. G. Whittier, President and Manager.
D. W. Moore, Secretary-Treasurer.
J. H. Thompson. A. W. Goodenough. J. M. Martin.

Head Office: Kaslo, B.C.

Formed to acquire and work the " Goodenough " mineral claim, situate in the Slocan Mining Division of West Kootenay District, B. C. Being opened up. Smelter returns for carload lots giving from 277 to 507 ounces of silver per ton, and 48 to 67 per cent. lead for galena ore, and 168.5 to 322.5 ounces silver per ton, and 2 to 34 per cent. lead for carbonate ores, while one lot of 6½ tons assayed 768 ounces silver per ton, and 64.1 per cent. lead. 600 feet of tunnelling.

GOOD HOPE MINING AND MILLING CO., Limited.

Incorporated in British Columbia, 14th April, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers :

J. H. Robinson, President.
Edward Baillie, Secretary. C. O'Brien Reddin, Manager.

Head Office: Rossland, B.C.

Owns and is developing the Good Hope mineral claim, situated on the north west slope of Red Mountain, two miles from Rossland, British Columbia.

GOWRIE AND BLOCK HOUSE COLLIERIES, Limited.

Organized in England, 1898. Authorized Capital, £65,000, stg., in 6,500 ordinary shares of £10 each.

Directors:

John T. Lunn.
John Coull, J.P. J. Primrose Lindsay. Louis Davidson.

Head Office: J. G. Taylor, Secretary, Guildhall Chambers, Newcastle-on-Tyne.

CANADIAN OFFICE:
A. L. Anderson, M.E., Port Morien, C.B.

The company has been formed, (1) to purchase from the Coal Syndicate of Newcastle-on-Tyne certain Royalties of coals in Canada, and a portion of the Harbour of Port Morien, Cape Breton, Nova Scotia, at the entrance of the St. Lawrence, (2) to revive the business connection of Messrs. Archibald & Co. of the Gowrie Mines, Port Morien, (3) to revive the business connections of the Block House Mines of the same place, and (4) to construct and equip new Collieries, Pier and Coal Straiths at Port Morien.

In a report by the late Mr. Wm. Foggin, F.G.S., M.I C.E., it is stated:

"The Royalties acquired cover four square miles, and in calculating the quantities of available coal in the various seams I have taken each lease separately, as I find it will be impracticable for purposes of development to to consider the property as a whole."

AVAILABLE COAL.

Lease No. 193.	Tons.	Tons.
Block House Seam	2,640,000	
Gowrie Seam	4,032,000	
Spencer Seam	2,448,000	
McRury Seam	3,952,000	
Three Foot Seam	2,736,000	
		15,808,000
Lease No. 146.		
McRury Seam	2,541,500	
Three Foot Seam	2,592,000	
		5,133,500
Lease No. 194.		
McRury Seam	1,768,000	
Three Foot Seam	2,592,000	
		4,360,000
Lease No. 216.		
Long Beach Seam	2,592,000	
Tracey Seam	4,104,000	
		6,696,000
Total		31,997,500

GOWRIE AND BLOCK HOUSE COLLIERIES—Continued.

"From five to forty per cent. has been allowed in the above calculations for loss in working and barriers."

Colliery being opened at date of report.

The following contracts have been entered into (namely). An Agreement dated the twelfth day of October, 1898, and made between John Thomas Lunn, James Primrose Lindsay, John Coull, James Dunsmure Gillespie, Louis Davidson, Edward Eugene Brown, John George Taylor, Alfred Edward Gibson, Colin Ochiltree-Macdonald, John William Pae, Jacob Daglish, and Alfred Octavius Hedley of the one part, and William Frederick Allden (as trustee for and on behalf of the company) of the other part, and also twelve several contracts bearing date the tenth day of November, 1898, and respectively made between the said John Thomas Lunn, James Primrose Lindsay, John Coull, James Dunsmure Gillespie, Louis Davidson, Edward Eugene Brown, John George Taylor, Alfred Edward Gibson, Colin Ochiltree-Macdonald, John William Pae, Jacob Daglish, and Alfred Octavius Hedley of the one part, and the company of the other part, being the Agreements for the purchase of the Royalties and Harbour space referred to in the first paragraph hereof.

GRACE DARLING GOLD MINING CO., Limited.

Incorporated in British Columbia, 30th March, 1897. Authorized Capital, $150,000, in shares of a par value of ten cents.

Directors :

W. A. Blair, President.
J. Barnes, Vice-President. J. S. Clute, Treasurer.
F. W. Barnes, Secretary. S. Forteath

Head Office : 43 East Columbia Avenue, Rossland, B.C.

Owns and is developing three mineral claims, on Sullivan Creek, Trail Creek Mining Division, British Columbia.

GRANBY CONSOLIDATED MINING AND SMELTING CO., Limited.

Incorporated under the Laws of British Columbia, 5th May, 1899. Authorized Capital, $900,000, divided into 3,600,000 shares of a par value of 25 cents.

Officers :

S. H. C. Miner, President.
J. P. Graves, Vice-President. C. E. Gault, Secretary.
George W. Wooster, Treasurer.

GRANBY CONSOLIDATED CO.—Continued.

Head Office: C. E. Gault, Secretary, Montreal.

Works: Grand Forks, B.C.

At date of report was being organized for the purpose of constructing a smelting plant of a capacity of 500 tons per day, at Grand Forks, British Columbia. Work of construction commenced.

GRAND CALUMET MINING CO. OF OTTAWA, Limited.

Incorporated 1897. Authorized Capital, $475,000, in shares of $5.00.

Officers:

W. J. Poupore, M.P., President. | P. W. Resseman, Vice-President.
Arthur McConnelll, B.C.L., Secretary | Leopold Meyer, Mining Engineer.

Directors:

R. C. Van der Meulen. | Leopold Meyer.
W. J. Poupore. | P. W. Resseman.
Arthur McConnell. | R. McRitchie.
E. P. Cowan.

Head Office: C. L. Meyer, 362 Bank Street, Ottawa.

Mines Office: Bryson, Que.

Formed to carry on mining on the Grand Calumet Island, Pontiac County, Province of Quebec. The company has purchased the W. halves of Lots 9 and 10, and Lots 11 and 12 in the Fourth Range, and has secured favorable options on some 2,000 acres of adjacent lands. In 1899 it also acquired the Zenith zinc mine at Rossport, on Lake Superior, Ont. In his report for 1898, Mr. Obalski, Inspector of Mines, describes the operations of the company as follows:—

"When I visited this property, in the beginning of April, a shaft called the No. 1, or Santa Anna, was being sunk on lot 12 (Lawn), with the intention of striking the ore beds which outcrop on the surface, and a little ore was found disseminated through the diorite; prospecting had also been commenced on the central part of lot 9 (Bowie), where there was a very fine exposure of ore mentioned in my report of last year. At the time, about 500 tons had been taken out, giving 12 to 18 per cent. of lead, 35 to 40 per cent. of zinc, and 12 to 20 ounces of silver per ton, besides a larger quantity of ore suitable for concentration. During the previous year 800 tons of blende ore had been extracted from the Russell Lot (10 and 11) worked by Mr. Watts and others to a depth of 80 feet. I again visited this property in the month of October. The shaft known as the Santa Anna shaft, 5 feet by 8, had been sunk to a depth of 130 feet; it was served by a steam engine for hoisting and

GRAND CALUMET MINING CO —Continued.

pumping. At a depth of 126 feet, a drift of 65 feet was driven to the east, which met with some indications. The shaft, it seems, was then abandoned, with the idea of concentrating all the available force of the company upon the Bowie Lot. In the neighborhood of the same shaft some prospects were made which disclosed a very mineralized rock that very probably could be worked. The Santa Anna shaft did not make much water, and was lighted with acetylene. In the vicinity, at about 100 feet to the north of this shaft, another has been begun, which is known as No. 2 and which has been sunk to a small depth, showing a good deposit of blende. On the Bowie Lot the work was done by hand at first, with a few men ; then steam machinery was put in to run a derrick and drills. The deposit was followed to a depth of 50 feet, and the company reports 1,100 tons taken out and shipped to Belgium, 32 men having been employed. When I visited the mine in October the ore was almost uniform as to quality, but the deposit, which was, moreover, very irregular, showed at the bottom a workable thickness of 3 to 4 feet. Besides the ore shipped, a large quantity of low grade ore suitable for concentration is dumped near the mine. At some distance to the N.E., on Lot 10 (Lawn), very promising outcroppings had been discovered. I have since learned that these have been worked to some extent, with good indications. Towards the end of November the company, for certain special reasons, decided to shut down its works temporarily. The same company is also interested in other properties containing similar ore, in the Province of Ontario. In the course of the season preparations had been made to concentrate the poor ores, and these will probably be continued in the spring."

The management report the following shipments :—

From Zenith Mine to Antwerp, 1,100 tons, containing about 40 per cent. zinc ; from Calumet Island about 1,200 tons, containing 33 per cent. zinc, 10 per cent. lead, and 25 ounces silver to the ton.

GRAND PRIZE MINING AND MILLING CO., Limited.

Registered in British Columbia, 19th September, 1896. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

W. W. D. Turner, President.
George W. Bell, Vice-President. C. R. Brown, Treasurer.
W. H. Zeigler, Secretary.

Head Office: W. H. Zeigler, Secretary, Zeigler Block, Spokane, Wash.

CANADIAN OFFICE:

E. W. Lilegran, Superintendent, Rossland, B.C.

Owns and is developing the Grand Prize mineral claim, situated on Deer Park Mountain, 2½ miles south-east of Rossland, British Columbia.

GRAND RIVER PLASTER COMPANY.

Authorized Capital, $50,000, divided into shares of a value of $100 each, the whole of which have been subscribed and fully paid.

Directors:

Dr. Coles. George S. Coutant. M. Albert Scull.
Ernest R. Ackerman. Wm. Hamilton Merritt.

Marian S. Ackerman, Secretary, 67 William Street, New York.

CANADIAN OFFICE:
Cayuga, Haldimand Co., Ont.

This campany controls the gypsum underlying 300 acres of land known as the Huff Tract, and 116 acres known as the Jones Tract, at North Cayuga, in the County of Haldimand, Ont., upon which are situated the Merritt and Glenny gypsum quarries. The former has been worked for a period of forty-five years, and the latter some twelve years. Average yearly output, 500 tons. The company also manufactures calcined plaster, white and grey land plasters, etc.

GRANITE CONSOLIDATED MINING & MILLING CO., Limited.

Authorized Capital, $700,000, in shares of a par value of $1.00.

Officers:

Peter Larson, President.
J. D. Porter, Vice-President. H. E. Porter, Manager.

Head Office: Mr. Wakefield, (Messrs. Wakefield & Forrest) Secretary, Spokane, Wash.

CANADIAN OFFICE:
H. E. Porter, Kaslo, B. C.

Owns and is developing the Granite Gray, Eagle and Little Diamond mineral claims, on the South Fork of Kaslo River, 4½ miles from K. & S. Railway and nine miles from the town of Kaslo, Province of British Columbia.

GRANITE CREEK MINING CO., Limited.

Incorporated 1895. Authorized Capital, $150,000, in shares of $10 each.

Directors:

Robert Stevenson, President.
W. Barclay Stephens. W. L. Hogg. J. N. Greenshields. C. R. Gillard.
A. W. Fleck. W. Dale Harris.

Eastern Office: W. L. Hogg, Secretary, St. Francois Xavier St., Montreal.

Mines Office: Granite Creek, Yale District, B.C.

Formed to acquire and work an auriferous bench property, containing 640 acres, at Granite Creek, in the Similkameen Division, Yale District, Province of British Columbia. The ground has been prospected and is reported to average from 25 to 35 cents to the cubic yard.

GRANITE GOLD MINES, Limited.

Registered in England, June, 1899. Authorized Capital, £120,000, in shares of £1: of which 40,000 shares are taken by the vendor company (The Duncan Mines, Limited).

Directors:

Alexander McNab, J.P.
R. Bruce Archibald, J.P. | C. S. Drummond.
Albert M. Marks. | C. E. Shepheard.

Head Office: 6 Great Winchester Street, London, E.C.

Canadian Office: Nelson, B.C.

This company has been formed to acquire the Granite and Royal Canadian groups of gold-bearing properties, situated in the vicinity of Eagle and Sandy Creeks, in the Nelson Division of the West Kootenay District of British Columbia, together with valuable water rights and mill site of 42 acres, near the Canadian Pacific Railway Station, at Kootenay Crossing, all within about six miles by rail of the City of Nelson, British Columbia.

The Granite group comprises the following claims:—The Granite, Red Rock Fraction and White Swan. The gold-bearing vein has been traced by ground sluicing and shafts through the property for over half a mile. The Royal Canadian group comprises the Royal Canadian, Colorado, for and Roy. The gold-bearing vein has been traced through this property about three thousand feet. The two groups extend over an area of about one

GRANITE GOLD MINES—Continued.

hundred and eighty-eight acres, in addition to the mill site and woods pre-emption. The water rights consist in the use in perpetuity of 60 miner's inches from Sandy Creek and 150 inches from Star and Eagle Creeks, the use of which for power immediately required will, as the Directors are informed, result in a saving to this company of about £500 per annum, but when the full capacity of the water is utilised there should be a gain of over £1,500 per annum as compared with the cost of steam. A large number of promising claims are being developed in the immediate neighborhood, and will probably become feeders to this company's mill. Extensive development work has been done and is being prosecuted vigorously on both groups, and the Granite, Red Rock, White Swan, and mill site have been surveyed for Crown grants, which will be issued direct to this company free of charge.

The purchase price has been fixed by the vendor company, The Duncan Mines, Limited, which is the promoter, at £100,000, payable as to £40,000 in fully paid shares of £1 each, and the balance in cash or shares. This sum includes profit of about £55,000 on the original cost and subsequent expenditure. £10,000 will be set aside as working capital, which the Directors consider ample for the purpose, and 10,000 shares will remain in reserve.

The only contract that has been entered into by this company is dated 27th May, 1899, and is made between The Duncan Mines, Limited, as vendor of the one part, and this company as purchaser of the other part, and there is a contract dated 27th May, 1899, and made between the vendor of the one part and the Nelson, B.C., Syndicate, Limited, of the other part, for underwriting part of the present issue for a commission of 10,000 shares.

GRANITE MINING AND SMELTING CO., Limited.

Re-registered in British Columbia, 3rd January, 1898. Authorized Capital, $500,000, in shares of a par value of $1.00.

Officers:

James L. Ford, President.
E. Denzel, Vice-President. J. E. McColl, Treasurer.
W. S. Dawson, Secretary.

Head Office: 304 Trader's Block, Spokane, Wash.

Canadian Office: Nelson. Hugh R. Cameron, Attorney.

Mine Office: Sanca, B.C.

Owns and is developing the Granite claim, located on the east side of Kootenay Lake, near Sanca, Slocan District, British Columbia.

GREAT NORTH COUNTRIE GOLD MINING CO., Limited.

Incorporated 25th May, 1899. Authorized Capital, $800,000, in shares of $100.00 each.

Directors:

L. Simpson, Valleyfield, Que. | Eli Adler, Lachine, Que.
A. E. Follows, " " | F. Cochrane, Sudbury, Ont.
G. F. Benson, Montreal, " | D. Munroe, Cornwall, Ont.

Formed to carry on in all their branches the operations of a mining, milling, reduction and development company.

GREAT WESTERN MINES COMPANY, Limited.

Incorporated in British Columbia, 29th March, 1897. Authorized Capital, $1,000,000, in shares of $1.00.

Officers:

Wm. B. Poole, President.
F. W. Godsall, Vice-President. J. D. Graham, Secretary-Treasurer.

Head Office: J. D. Graham, Secretary-Treasurer, Revelstoke, B.C.

Owns and is developing the Great Western Group, comprising three claims, and located on the north-east Arm of Arrow Lake, Lardeau Mining Division, British Columbia.

GREAT WESTERN MUTUAL EXPLORATION & DEVELOPMENT COPORATION OF BRITISH COLUMBIA, Limited.

Incorporated 15th February, 1897. Authorized Capital, $2,500,000, in shares of a par value of $1.00.

Directors:

Sir Melville Parker, President.
Robert Scott, Rossland, Vice-President.
J. A. Smith, Rossland, Western Manager.
Judge McGibbon, Brampton. | J. McDougall, Q.C., Ottawa.
N. Merritt, Toronto. | Edward Bowes, M.D., Rossland.
J. Featherston, M.P., Springfield. | G. J. Ashworth, Toronto.

Head Office: J. A. Smith, Manager, Rossland.

Owns and is developing the Allcome Fraction, located on the S.E. slope of Deer Park Mountain, 1½ miles from the town of Rossland, B.C.

GREEN MOUNTAIN CONSOLIDATED GOLD MINING CO., Limited.

Incorporated under the Laws of British Columbia, 21st November, 1898. Authorized Capital, $1,500,000, in shares of a par value of $1.00.

Directors:

J. B. McArthur. P. C. McArthur. W. L. Lowry.
W. A. Potter. Alfred McMillan.

Head Office: Rossland, B.C.

Formed for the purpose of acquiring and developing the Green Mountain, Jersey and Ancona mineral claims, situated upon the north slope of Red Mountain, Rossland District, British Columbia.

The property has been thoroughly prospected by a number of trenches and large crosscuts which have opened up two strong ledges running the entire length of property. The main or larger ledge, upon which the present shaft is being sunk is about 20 feet wide. It is opened by five crosscuts, one at each end and three in the center, all of which show large bodies of solid iron ore that assay from $1.50 to $36 in gold.

The lower or ledge No. 2 runs parallel with the large ledge about 270 feet to the east, it too being opened by several cuts all of which show it to be about two feet wide and has more or less ore mixed with the decomposed ledge matter.

The properties are all held by Crown grant which is the highest kind of title, and are equipped with an entire steam plant, consisting of 25 horse power boiler, 15 horse power hoist and large No. 5 Knowles sinking pump, Rand air compressor, &c.

GRESHAM GOLD EXPLORING SYNDICATE, Limited.

Registered in British Columbia, 14th January, 1897, and registered in England, 12th October, 1894. The Authorized Capital is £50,000, in shares of £1 each; 49,500 shares have been issued, 5,025 shares being fully paid, and 44,475 having 15s. per share called up. The capital was originally £1,500, but was increased to its present amount in July, 1895, when 48,500 shares were offered for public subscription.

Directors:

James J. Wallis, Chairman.
Loftus E. Brooke. F. S. Boully.

GRESHAM GOLD EXPLORING SYNDICATE—Continued.

Head Office: 13 and 14 Abchurch Lane, London, E.C.

CANADIAN OFFICE:

Henry G. Barton, Agent, Nelson, B.C.

Owns, in addition to properties in Western Australia, certain mineral claims in the Slocan District, British Columbia.

GRIMSBY GOLD MINING COMPANY, Limited.

Incorporated under the Laws of Ontario, January 8th, 1897. Authorized Capital, $200,000, in shares of $1.00 each.

Directors:

Murray Fitch. F. Shaw Baker. J. A. Livingstone. J. Kerman. C. W. Van Duzer. H. C. Kerman.

Head Office: F. Shaw Baker, Secretary, Grimsby, Ont.

Mine Office: Jas. A. Livingstone, Manager, Rat Portage, Ont.

Owns and is developing ten mineral claims as follows: 3 located in Van Horne Township, 2 on Eagle Lake, and 5 in the Lake of the Woods, Province of Ontario. Development so far, confined to the property in Van Horne Township.

GRUB STAKES SYNDICATE, Limited.

This Syndicate was registered on the 24th September, 1897, by H. and G. Keith, 48 Chancery Lane, London, W.C., England, to acquire mines in the Yukon and elsewhere. Authorized Capital, £1,000, in 100 shares of £10 each.

GUFFEY-JENNINGS GOLD MINING CO., Limited.

Mines Office: H. Guffey, Manager, Caribou, N.S.

This company owns and is developing the Lake Lode Gold Mine, Caribou District, Province of Nova Scotia. Equipped with a 10 stamp battery (to be increased) and a suitable mining plant. At date of report a vertical shaft was being sunk to meet the old workings. This shaft is down over 400 feet.

HALIFAX MINING CO., Limited.

Incorporated 20th February, 1897. Authorized Capital, $1,000,000, in shares of $1.00.

Directors:

C. M. Cowper-Coles	A. C. Sinclair.	John A. Kirk.
Arthur Whittier.	John E. Hoosen.	Wm. Cramer,
	A. Wilson.	

Registered Office: Rossland, B.C.

Formed to acquire the mineral claims known as the John Halifax, Ursula, Variety and Combination, situated on the North Fork of the Salmon River, in the Nelson Mining Division, British Columbia.

HALL MINES, Limited.

Registered in London, 5th June, 1893. Authorized Capital, £300,000, in shares of £1, £50,000 in preference, and the balance in ordinary. The preference shares rank first for 7 per cent. cumulative dividends, have a priority as to capital, and may be redeemed by the company at 25 per cent. premium after the expiration of five years from issue. Of the preference capital, £25,000 has been subscribed and all called up; and of the ordinary, £250,000 has been subscribed, and all 175,000 shares having been issued to the vendor fully paid up. In addition to the ordinary shares as above, the vendors received £40,000 in cash, Director's qualification, £500 of ordinary shares. The preference dividend to the 31st March, 1898, has been paid. On the ordinary shares a dividend of 10 per cent. was paid on the 22nd December, 1897, for the year 1896-7, and 1s. per share on the 2nd May, 1898. The accounts are made up annually to the 30th September, and submitted in December. At the 30th December, 1896, a balance of £5,592 14s. 6d. to credit of income and expenditure account was shown: the preference dividend to date absorbed £3,662 8s. 2d., and £1,930 6s. 4d. was carried forward. The accounts to the 30th September, 1897, submitted on the 15th December, 1897, showed a net profit of £24,867 12s. 4d. for the year (after writing off £5,489 15s. 8d. depreciation), making the balance forward a sum of £26,797 18s. 8d. to credit of profit and loss account: the year's preference and ordinary dividends absorbed £26,750, leaving £47 18s. 8d. to be carried forward.

Directors:

Sir J. W. Trutch, K.C.M.G., Chairman.

J. R. Brown.	J. R. Drake.	R. Day.
D. H. Gibb.	Walter Neilson.	Flint Ramsay.

HALL MINES—Continued.

Head Office: A. E. Ashley, Secretary, Leadenhall Bdgs., Leadenhall Street, London, E.C.

H. E. Croasdaile, General Manager, Nelson, B.C.

M. S. Davy, Mine Superintendent.
R. R. Hedley, Superintendent of Smelter.

Formed to acquire copper and silver mining properties situated in the West Kootenay District, British Columbia.

The following properties are owned and operated by the company:—Silver-copper bearing—Silver King, Kootenay Bonanza, American Flag, Koh-i-noor, Lake Side. Gold-bearing—Daylight, Britannia, J.M.B., Bid, Grand, Jessie. For mineral location. Eureka, Rose, Thistle, Shamrock, National Emblem, Horse Shoe. For iron flux—Iron Hand.

The following is excerpted from the report of the Minister of Mines, for 1898:—

SMELTING WORKS, 1897.

The Hall Mines smelter is situated on the hill just back of the City of Nelson, and, while originally built for the treatment of ores from mines belonging to the same company, has gradually taken up "custom smelting," and is prepared to buy both copper and lead ores carrying gold and silver values.

The superintendent of the smelter, Mr. R. R. Hedley, writes me that they "are bidding specially for ores carrying well in copper."

The price paid per pound for fine copper contained has been about 6 to 6½ cents less than New York market price; for silver, 95 per cent. of such market price, and $19.25 per oz. for gold, from which total is deducted a smelting charge of from $7 to $8 per ton of ore.

The smelter treated some 800 tons of lead ore last spring, and is being fitted up more especially for such ores in future.

The price paid for silver-lead ores has varied with the character of the ore, the treatment charge being from $10 to $16 per ton, with a price of $19.25 per oz. for gold, 95 per cent. of New York price for silver, and for lead 90 per cent. of such price, less duty, 1½ cents per pound.

Under the conditions existing last fall the smelter could not compete with American smelters on ores crrrying over 40 per cent. lead, "for the reason, that above that percentage the additional duty on pig-lead offsets any advantage we may gain in freights."

I am indebted to Mr. Robt. R. Hedley, Superintendent, for the following description of his smelting practice:—

HALL MINES—Continued.

"These works were established originally to treat *Silver King* ore. This ore, in the past few years, has varied but little in composition. Generally speaking, this may be figured as 37 per cent. silica, 8 per cent. lime, 6 per cent. magnesia, 10 per cent. ferrous-oxide, 10 per cent. manganous-oxide, 3 per cent. copper, and 3.3 per cent. sulphur. This may be taken as an average of the output of the *Silver King* mine for the year, though it has varied all the way between 2 per cent. and 5 per cent. copper; and latterly the sulphur has slightly increased in proportion to the copper. Starting with such an ore, which might be considered self-fluxing, it is obvious that no preliminary roasting is required; we have to do with the straight ore. We have found it economical to use about 10 per cent. limestone as flux, though we have demonstrated that it is possible to reduce this considerably. Originally, with the inception of smelting at Nelson a furnace was built, with dimensions at the tuyeres, of 40 inches by 100 inches, giving a capacity of, roughly, 150 tons of charge per day. During the summer of '97 a larger furnace was built, with dimensions of 44 inches by 144 inches at the tuyures, giving a normal capacity of 280 to 300 tons of charge. The practice has been, when dealing with *Silver King* ore solely, to smelt the ore as it comes from the mine, concentrating from 16 to 30 parts into one, with a consumption of about 15 per cent. coke, of quality such as supplied by the coast collieries. This first smelting, until recently, has produced a matte carrying on an average about 50 per cent. copper. Latterly, however, a matte produced from *Silver King* ore solely, will carry but 44 per cent. copper, owing to the increased proportionate sulphur contents. During the past spring and summer we have departed from our rule of producing a high grade first matte, owing to the handling of a considerable quantity of custom ores, notably, *War Eagle*. *War Eagle* ore in its raw state has frequently formed 20 per cent. of the charge, and the grade of matte, under such conditions, falls to about 25 per cent. copper. This matte has been roasted, and after grouting with quick-lime, re-charged to produce a matte of 50 per cent. copper, which is the minimum desirable for reverberatory work. The charge as stated, *Silver King* ore and limestone, or *Silver King* ore, *War Eagle* ore and limestone, with, occasionally, a small proportion of other custom ores, produces a slag, the composition of which, while it varies slightly in its silica, iron and lime contents, invariably carries extremely low values, varying from 0.26 to 0.4 per cent. copper and from 1 to 2 ounces of silver, according to the grade of matte produced.

"With the installation of a reverberatory plant, consisting of two hand-work calciners, with a hearth 14 by 44 feet and two reverberatories, the shipment of matte ceased, and the practice has been to calcine about one-half of the matte produced, and charge to the first reverberatory about 8,000 pounds of calcined and 8,000 pounds of raw matte, and 1,200 to 1,500 pounds of quartz or silicious material, this, in 12 hours, will tap a good bed of white

HALL MINES—Continued.

metal (about 75 per cent. copper) and form a slag, varying between 1 and 1½ per cent. copper, which returns to the blast furnace. This white metal is then crushed and a portion of it calcined, the second reverberatory taking a charge of about 32,000 pounds calcined and 8,000 pounds of raw white metal, with 600 to 800 pounds of silicious material. With the furnace in good condition and all things favourable, this will produce in the neighbourhood of 15 tons of copper in anode form in 24 hours. This anode copper averages between 97 and 98 per cent. copper, and carries values from 300 to 800 ozs. of silver and from 5 to 30 ozs. of gold to the ton, according to the ore treated. The slag from this second reverberatory, carrying from 12 to 16 per cent. copper and its quota of silver and gold, is charged either to the first reverberatory or to the blast furnace, being particularly desirable in the latter, under certain conditions. The copper, up to the present, has been refined by the Balbach Smelting and Refining Company, of Newark, N.J.

"To return to the blast furnace: A little further detail will, no doubt, prove interesting. The plant is provided with ample dust chambers, and a periodical cleaning out of these chambers is made, the dust grouted with lime and charged wet into the furnace. The slag is run to waste through the granulating flume, and carried to the flats below, making excellent yards for the C.P.R.

"Last year I gave a few statistics showing capacity of the big furnace. Unfortunately, we have rarely been in the position where we could push smelting, but during the week ending 18th of February, 1898, the tonnage smelted per day was as follows for seven days:—277, 288, 297, 301, 310, 312, 246—a total during the week of 2,030.65 tons, made up as follows:—

Silver King ore	1,677.83 tons.
Custom ore, etc	170.22 "
Limestone	182.60 "
	2,030.65 "

"In two days, the 16th and 17th, we smelted 622 tons, made up as follows:—

Silver King ore	513.94 tons.
Custom ore	52.08 "
Limestone	55.98 "

"This, I think, demonstrates what this furnace is capable of doing, and does away with the suggestion that a tonnage of over 300 may be charged into the furnace and not actually smelted.

"It will probably be of interest to state that we have made a test of coke from the Crow's Nest Pass ovens. I find that 135 pounds of this coke will,

HALL MINES—Continued.

apparently, go as far as 150 pounds of that from the coast ovens. A sample of this carload carried 8 per cent. ash. The coke is well made, and promises to aid very materially the smelting industries of this part of the Province.

"During the months of March and April of this year we made an experimental run on a lead charge. We attempted to purchase selected ores carrying below 40 per cent. lead, and preferably of an oxidized nature. We found, however, such ores were difficult to procure, and finally began operations with a calcined mixture made up of mixed galena, *War Eagle* ores and gold concentrates, 403 tons; of bedded ore, 176 tons; and dry ore, gold quartz carrying a little galena, zinc blende and pyrites, 75 tons, with 12 tons of low grade lead bullion bought from the Pilot Bay smelter. This was fluxed with 245 tons of limestone and 30 tons of scrap iron, and the whole 940 tons carried: silver, 75,800 ounces; gold, 432 ounces; copper, 11,054 pounds; lead, 310,000 pounds. The bullion shipped averaged 600 ounces of silver and 4 ounces of gold per ton.

"We are now slowly accumulating, as before, lead ores of suitable character and grade, to make another similar run, and I may say, are in the market at all times and willing to make bids as favourable as possible on ores of any description carrying copper, or on "dry ores," ores carrying a low percentage of lead. We are of the opinion that it is not economical to handle ores with a high percentege of lead, for the reason that the bullion shipped, having a higher railroad classification, pays a heavier freight than ore, and there is an additional duty of ⅝ of a cent per pound."

HAMILTON AND ROSSLAND GOLD MINING CO., Limited.

Incorporated 30th November, 1896. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

Alexander Richardson, President,
Wm. Cleverisley, Secretary. James McCreath, Manager.

Mines Office: P. E. Wilson, Nelson, B.C.

Owns and is developing the Tennessee mineral claim, located on the south eastern slope of Tennessee Mountain, 1 mile N.W. of town of Ymir, British Columbia.

HALL MINES, Limited.

EXCERPTS FROM ANNUAL REPORT, BALANCE SHEET AND PROFIT AND LOSS ACCOUNT.

30th September, 1898.

This Balance Sheet shows a gross profit amounting to £28,861 13s. 11d., which, together with £47 18s. 6d. brought forward from 1897, makes a sum of £28,909 12s. 7d. Out of this amount the Directors have already (on the 21st April last) appropriated the sum of £12,500 to the payment of an interim dividend of 5 per cent., being 1s. per share on the ordinary shares of the Company, and £1,750 to the payment of a dividend of 7 per cent. on the preference shares, which appropriations you are asked to confirm. After deducting these two amounts there remains a balance of £14,659 12s. 7d., from which the Board have thought it advisable to write off the sum of £6,052 2s. 5d. for depreciation on buildings, plant and machinery, and £7,361 17s. 2d. for cost of prospecting work at the Company's mine, prior to 1st October, 1897, and on a copper claim, since abandoned, leaving a balance of £1,245 13s. 0d. to be carried forward to the credit of the account for the current year.

BALANCE SHEET—30TH SEPTEMBER, 1898.

Capital and Liabilities.

Dr.

To Share Capital—	£ s. d.	£ s. d.
Authorized—		
50,000 Cumulative Preference shares of £1 each	50,000 0 0	
250,000 Ordinary shares of £1 each	250,000 0 0	
300,000 shares.		£300,000 0 0
Issued—		
25,000 Cumulative Preference shares of £1 each, called up	25,000 0 0	

HALL MINES—Continued.

175,000 Ordinary shares, issued as fully paid		175,000 0 0	
75,000 " of £1 each, called up		75,000 0 0	
275,000 shares.		275,000 0 0	
Deduct calls in arrear....		2 10 0	
			£274,997 10 0
To Creditors—			
Bank—			
Loan.....	£13,888 17 8		
Overdrafts*.....	75,378 8 11		
		89,267 6 7	
Preference shareholders, for dividend.....		875 0 0	
Sundry creditors.....		2,621 17 3	
			92,764 3 10
" Profit and Loss Account—			
Balance at 30th September, 1897.....		25,047 18 8	
Deduct dividend of 2s. per share on the Ordinary shares declared 15th December, 1897		25,000 0 0	
		47 18 8	
Add profit for the year ending 30th September, 1898, as per account.....		28,861 13 11	
		28,909 12 7	
Deduct—			
Dividend at 7 p.c. on Cumulative Preference shares for the year ending 30th September, 1898.....	£ 1,750 0 0		
Interim dividend of 1s. per share on the Ordinary shares, declared 21st April, 1898.....	12,500 0 0		
Amount written off for cost of prospecting work to 30th September, 1897.....	6,883 14 2		
Amount expended on Blue Grouse claim, since abandoned.....	478 3 0		

*Secured by a floating charge on all the ores and other products owned by the Company.

HALL MINES—Continued.

Depreciation and maintenance written off buildings, plant and machinery, tramway, smelter and office furniture	£6,052 2 5		
		27,663 19 7	
			1,245 13 0
			£369,007 6 10

Property and Assets.

Cr.

	£ s. d.	£ s. d.
By Mines Cost Account—		
As at September, 1897.....	214,327 15 10	
Deduct—		
Cost of prospecting work to 30th Sept., 1897, written off £ 6,883 14 2		
Balance payment water rights, written off..... 137 3 6		
	7,020 17 8	
	207,306 18 2	
Add—		
Expenditure during the year ending 30th September, 1898:—		
Cost of development work in Silver King Mine..... £10,277 5 5		
Assessment work, etc., on old claims..... 219 1 8		
Payments on options taken on new claims..... 617 5 8		
Cost of prospecting and developing new claims.... 1,604 2 0		
	12,717 14 9	
		220,024 12 11

HALL MINES—Continued.

To Buildings, Plant and Machinery—

As at 30th September, 1897..		13,802 2 4	
Additions during year ending 30th September, 1898.....	£3,589 16 8		
Tools, etc , in use at the mine, transferred from stock account.....	2,214 10 6		
		5,804 7 2	
		19,606 9 6	
Deduct depreciation written off.....		1,372. 9 0	
			18,234 0 6
" Aerial Tramway from Mine—			
As at 30th September, 1897.....		12,887 17 8	
Expenditure during the year ending 30th September, 1898.....		2,992 19 10	
		15,880 17 6	
Deduct depreciation and maintenance written off	£ 2,057 12 3		
			13,823 5 3
" Smelter Account—			
As as 30th September, 1897.....		28,593 9 10	
Expenditure during the year ending 30th September, 1898.....		9,797 6 5	
		38,390 16 3	
Deduct depreciation and maintenance written off		2,601 9 7	
			35,789 6 8
" Lands Purchased—			
As at September 30th, 1897.....		1,713 19 9	
Purchase of timber lands during the year ending 30th September, 1898.....		390 18 11	
		2,104 18 8	

HALL MINES—Continued.

Deduct amount written off for timber cut during the year	231 3 9		
			1,873 14 11
" Office Furniture in London—			
As to 30th September, 1897	199 15 4		
Additions during the year ending 30th September, 30th, 1898	6 0 3		
	205 15 7		
Deduct depreciation written off	20 11 7		
			185 4 0
To Stock of Supplies on Hand—			
Per inventories received from British Columbia			12,389 10 0
" Ore, Matte and Metallurgical Products in Stock—			
Per valuation of smelter superintendent in in British Columbia			56,195 12 11
" Open shipments of copper bullion (since realized)			1,781 19 4
" Debtors—			
Government of British Columbia, for bounty on ore smelted	7,258 12 10		
Sundry debtors	985 2 10		
			8,243 15 8
" Cash at banker's and on hand			466 4 8
			£369,007 6 10

PROFIT AND LOSS ACCOUNT FOR THE YEAR ENDING 30TH SEPTEMBER, 1898.

Dr.

	£ s. d.	£ s. d.
To Ore and Purchased Matte Account—		
Reduction in stock of Silver King ore	2,952 4 7	
Purchased ores smelted	35,038 13 9	
Purchased matte treated	15,434 14 5	
		53,425 12 9

HALL MINES—Continued.

	£ s. d.	£ s. d.
To Expenditure in British Columbia—		
At the mine	37,946 15 9	
At the aerial tramway—		
Tramming contract and sundry expenses.	5,255 2 9	
At the smelter	57,712 13 0	
At the Nelson office	2,050 19 6	
Insurance	446 18 9	
Law charges and claims for injuries, settled	856 15 7	
Interest	2,886 6 5	
Taxes	1,630 14 0	
		108,786 5 9
" Expenditure in London		3,490 2 3
" Balance, being profit for the year carried to Balance Sheet		28,861 13 11
		£194,563 14 8

Cr.

	£ s. d.
By production of matte, bullion and metallurgical products ducts during the year	184,306 7 2
" Government bounty on ore smelted to 30th June, 1898	7,258 12 10
" Sundry Profits, including rents and assay charges received	2,785 9 10
" Transfer fees	127 17 6
" Difference in exchange	85 7 4
	£194,563 14 8

APPENDIX.

	£ s. d.	£ s. d.
Mines Cost Account comprises the following expenditure, viz.:—		
Charges prior to 30th September, 1897 (having deleted cost of prospecting to that date)—		
Purchase price under terms of the agreement	215,000 0 0	
Deduct value of tools and ore included therein	9,262 6 2	
	205,737 13 10	

HALL MINES—Continued.

Add expenditure on the following claims subsequently taken up—

Kohinoor	$ 124 00
Daylight	79 13
Jessie	1,005 00
Lakeside	573 50
Bid	1,299 00
Britannia	550 00
J.M.B.	422 27
Iron Hand	1,500 00
Grand	552 50
Surveys, etc.	446 00
	6,551 40

And on the following works—

Grohman Creek water works	372 15
New waggon road	699 59
	$7,623 14

$525.40 at $4.83 : $7,097.74 at $4.86 ..... £1,569 4 4

207,306 18 2

Add—

Expenditure during the year ending 30th September, 1898—

Cost of development work in Silver King mine as follows :—

Diamond drilling	$ 363 25
No. 1 tunnel	339 00
Winze 1 (and raise to same)	2,330 52
No. 4 tunnel	5,472 03
Kootenay Bonanza shaft	2,921 51
No. 4 level workings	1,205 27
Raise to No. 4 level	662 50
No. 5 tunnel	2,598 79

HALL MINES—Continued.

No. 5 tunnel, No. 1 crosscut	£2,205 50		
" " " E. drift	442 00		
" "E. winze	491 33		
" No. 2 crosscut	1,933 00		
" " W. drift	1,249 50		
" " E. drift	280 50		
" No. 3 crosscut	874 41		
" " shaft	4,152 38		
No. 6 level crosscut north and south	852 00		
Machinery, blacksmithing	9,391 77		
Shovelling, hoisting and tramming	8,159 40		
Powdermen, steelmen and sundry labor and supplies	4,022 89		
	$49,947 55	10,277	5 5
Assesssment work, etc., on old claims—			
Assessment work on Thistle, Thorn, Horseshoe, National Emblem and Shamrock claims	527 50		
Payment for Berlin claim	575 00		
Surveying	52 25		
	1,154 75		
Dednct overcharge for surveying, 1897	90 00		
	$1,064 75	219	1 8
Payment on options taken on new copper claims—			
True Blue	$3,000 00	617	5 8

HALL MINES—Continued.

Cost of prospecting and developing new claims—		
True Blue	£3,312 01	
Lone Star	660 00	
Big 3	1,560 00	
Big 4	1,093 25	
Fort Steele claims generally	1,170 65	
	$7,795 91 £ 1,604 2 0	
		12,717 14 9
		£220,024 12 11

Buildings, Plant and Machinery—

Additions during the year ending 30th September, 1898—

	Wages.	Supplies.	Totals.
Compressor foundation	$1,005 45	$234 03	$1,239 48
Tank for water supply for boiler.	139 75	20 62	160 37
Tank for water supply in case of fire	48 25	63 58	111 83
Ropeway from No. 5 tunnel	387 95	0 24	388 19
Shed from No. 5 tunnel to ore bins	96 20	——	96 20
Ore bins' improvements and weigh office	165 85	100 99	266 84
Cribbing for dump	122 50	——	122 50
Machine building improvements.	113 75	1 16	114 91
Assay office improvements	41 50	15 29	56 79
Office at No. 4 tunnel	35 00	12 60	47 60
Removing sawmill and improvements	556 15	97 18	653 33
Unloading station at aerial tramway	872 00	448 86	1,320 86
Storage Building	32 00	——	32 00
Wood flume	250 00	——	250 00
Erecting telephone line	150 00	108 70	258 70
Store and canteen building	733 63	194 75	928 38
Boarding house	214 12	——	214 12
Cottages, washhouse, stables, converting disused buildings into dwelling houses, etc	422 25	365 76	788 01

HALL MINES—Continued.

Sundry supplies for building.....	——	322 28	322 28
2 Dodge crushers.....	——	1,340 55	1,340 55
1 Ingersoll-Sergeant drill.....	——	257 73	257 73
Sundry fittings and supplies for plant and machinery	——	8,475 92	8,475 92
£3,589 16 8	$5,386 35	$12,060 24	$17,446 59

Aerial Tramway—

Expenditure during the year ending 30th September, 1898—

New rope.....	$8,187 45
Brake wheel.....	116 20
Sheaves.....	247 50
Buckets.....	5,107 92
Sundry expenses.....	886 87
£2,992 19 10	$14,545 94

Smelter—

Expenditure during the year ending 30th September, 1898—

	Wages.	Supplies.	Totals.
Reverberatory furnace.....	$9,202 74	$14,540 03	$23,742 77
Blast furnace.....	1,171 91	3,293 57	4,465 48
Engine room.....	201 56	1,446 52	1,648 08
Sample mill.....	215 25	855 71	1,070 96
Assay office.....	666 83	245 38	912 21
Elevator.....	1,674 15	2,507 88	4,182 03
Ore bins and gravity tramway...	275 98	77 44	353 42
Tramway warehouse.....	73 75	——	73 75
Bridge over Cottonwood Creek...	1,475 61	923 45	2,399 06
Railway spur.....	1,129 80	38 30	1,168 10
Flumes (for water and slag).....	115 55	87 98	203 53
Store room.....	16 00	60 28	76 28
Office.....	955 07	819 43	1,774 50
Smelter Superintendent's house..	70 17	30 21	100 38
Stable.....	208 62	124 98	333 60
General building, labor and supplies and plant.....	3,121 66	1,989 17	5,110 83
£9,797 6 5	$20,574 65	$27,040 33	$47,614 98

HALL MINES—Continued.

Ore, Matte and Metallurgical Products—

In hand 30th September, 1898—		
Ore—Silver King	$ 2,085 46	
" Purchased	22,493 17	
		$ 24,578 63
Matte purchased (raw)	93,847 83	
" " (in treatment)	49,029 24	
" from the Company's blast furnace	62,228 45	
		205,105 52
White metal		23,942 42
Metallic copper, scrap, slags, etc		15,497 31
Lead ores, slags and bullion		3 986 97
£56,195 12 11		$273,110 85

Expenditure in British Columbia—

Mining cost—

	Wages.	Supplies.	Totals.
General—Superintendent, foremen, and clerical staff, weigh office, assay office, powdermen, steelmen and general expenses.	$20,473 19	$ 5,241 34	$25,714 53
Odd jobs—Tracklaying, carpentering, clearing and sundry labor.	5,855 53	——	5,855 53
Maintenance of roads, etc	1,918 43	181 72	2,100 15
Timbering	8,903 20	6,861 80	15,765 00
Machinery running and blacksmithing	12,193 53	12,628 50	24,822 03
Driving and sinking in ore	6,729 50	813 58	7,543 08
Stoping	59,898 85	11,873 13	71,772 08
Shovelling and hoisting	18,958 88	538 94	19,497 82
Crushing and sorting	3,714 56	641 01	4,355 57
Tramming to upper terminal of aerial tramway	6,719 00	276 60	6,995 60
£37,946 15 9	$145,364 77	$39,056 62	$184,421 39

Smelting cost—

Tramming from lower terminal of aerial tramway	8,299 00	72 16	8,371 16
General—Superintendent, foremen, storekeeper, clerks, sundry labour and general expenses	17,987 74	6,972 54	24,960 28
Engine room	6,602 04	971 63	12,151 06
" "	——	4,577 39	
Sample mill, crusher and assay office	15,359 24	5,502 94	20,862 18
Blast furnace	36,003 44	1,766 50	171,921 97
" " fuel	——	122,345 14	
" " fluxes	——	11,806 89	
Calciner and reverberatory	18,539 52	3,134 68	42,216 83
" " fuel	——	20,542 63	
£59,712 13 0	$102,790 98	$177,692 50	$280,483 48

HALL MINES—Continued.

Nelson Office—

General manager and clerical staff	$7,541 98
Travelling expenses	515 10
Rent	105 00
Office expenses	1,805 65
£2,050 19 6	$9.967 73

Expenditure in London—

	£ s. d.
Directors' fees	1,400 0 0
Consulting engineers' fee and arrears	276 3 4
Rent, salaries and travelling expenses	1,215 6 1
Printing and stationery	149 4 0
Telegrams, postage and general expenses	361 16 3
Law charges	65 18 9
Auditors' fee	21 0 0
Interest	0 13 10
	£3,490 2 3

Production of Matte, Bullion and Metallurgical Products—

Matte—		
Sales during the year	$306,335 19	
Deduct open shipments 1st October, 1897	119,862 02	
	186,473 17	
Add stock at 30th September, 1898	62,228 45	
	248,701 62	
Deduct stock at 1st October, 1897	3,157 90	
		$245,543 72
Copper bullion—		
Sales during the year	675,358 75	
Deduct open shipments 1st October, 1897	130,835 75	
	544,523 00	
Add open shipments 30th September, 1898	8,660 35	
		553,183 35
Lead bullion—		
Sales during the year	43,535 71	
Add stock in hand 30th September, 1898	1,559 40	
		45,095 11
Metallurgical products—		
Stock at 30th September, 1898	90,896 54	
Deduct stock at 1st October, 1897	38,989 82	
		51,906 72
£184,306 7 2		$895,728 90

HAMILTON BLAST FURNACE CO., Limited.

Incorporated under Dominion statute, 1896. Authorized Capital $1,000,000.

Officers:

E. A. Carpenter, President.

John Milne, Vice-President. R. Hobson, Secretary-Treasurer.

Head Office and Works: Hamilton, Ont.

On 24th of July, 1894, the city of Hamilton passed a by-law granting a bonus of $75,000 for the establishment of iron smelting works in or immediately adjacent to the city, and a further bonus of $60,000 for the erection of steel works. The provisions demanded that the plant be in operation by December 31st, 1894, capable of turning out at least 150 tons of pig iron per day, and that the sum of $400,000 shall have been expended on the plant (bonus to be arranged as follows): The city agrees to purchase lands to the value of $35,000 for the erection of plant, and to give a cash bonus of $40,000 in city debentures payable on completion of plant.

The lands transferred to the company contain 75 acres, and immediately adjoin the city limits, on Burlington Bay, in the Township of Barton. The company has the right to fill in and occupy the water front out to a line of 8 ft. of water. It is estimated that this will add at least 75 acres more to the property and will also make an excellent cinder dump

On the 28th of October, 1893, the contract for the erection of a complete plant was given to the Philadelphia Engineering Company, of Philadelphia, Pa.

Work on the foundations was started in November, 1893, but was not completed until October, 1894. Cast house, walls, shell of furnace, and stoves, were erected during the winter.

Extensions of time to complete plant were given to the company from 31st December, 1894, to 1st July, 1895, from then until October 1st, and again to 31st December, 1895.

These extensions were necessitated by many unfortunate and unavoidable delays, also possibly by the extreme depression in the iron trade during 1894 and part of 1895. Work was again resumed during the summer of 1895 and pushed through to completion. The fires to dry out stack and stoves were lit on December 30th, 1895.

Furnace was blown in February, 1896, and is now making iron daily.

The following description will be of interest:

"Contract calls for a furnace and plant to be in all respects thoroughly good and substantial, with all modern improvements, capable of turning out 200 tons with 60 per cent. ore and Connellsville coke, constructed in all

HAMILTON BLAST FURNACE CO.—Continued.

respects to obtain very best economy in fuel consumption and handling of materials."

Starting with the furnace, the foundations consist of:—(1) Limestone blocks laid in bridge bond, upper portion 5 ft. from hearth of well-burned bricks, underneath hearth capped with hand-burned fire brick. Constructed on this the furnace is 75 ft. high, 16 ft. in the boshes, and 10 ft. hearth.

Seven cast-iron columns support the upper portion of the furnace. Shell is 21 ft. in diameter at bottom, and 19 ft. at top; thickness of plates range from $\frac{7}{16}$ to $\frac{5}{16}$ in. and all perpendicular seams are double-rivetted.

The furnace is built and lined with best hard-burned fire brick, made to proper sizes for different portions of furnace.

Top consists of regular plate platform and bridge to hoist tower, with guard rail 3 ft. 6 in. high.

Hopper is 11 ft. 6 in. in dia. and 3 ft. deep. Bell, 8 ft. 4 in., swung by two links attached to a lever with counterweight box, operated by a 12 in. steam cylinder, piston steam-cushioned top and bottom to guard against rough and careless handling of lever.

Downtake is 5 ft. in dia., lined with 3½ in. fire brick; has one bleeder 20 ft. high and 2 ft. in dia., lined with 2½ in. brick.

Dustcatcher at foot of downtake is 12 ft. x 11 ft., provided with bottom and side cleaning and explosion doors.

The general piping, bustle, waste and feed water trough are very well arranged so as to allow quick work to be done in removing tuyers, also any other repairs to and around bottom portion of furnace. Water fittings are all brass, inlets to tuyers are fitted with brass elbows and ball unions. Feed water connections have 3-way cocks, with attachments for cleaning out and where hose may be connected for convenience in cooling furnace.

Bustle pipe 33 in. in dia., lined with 7 in. brick, connections for 6 tuyere pipes; these pipes have a clear diameter of 8 in. when lined, and are provided with Gordon patent ball joints.

There are 6 bronze tuyeres and blocks. Blocks are 26½ in. long, 26¼ in. at butt and 19 in. at nose. Tuyeres are 6 in. Hearth jacket, steel, 1 in. thick, 6 ft. 4 in. high, and 16 ft. in dia. Strengthened at cinder arches.

Cinder arches 22 in. long, 13¼ in. at butt, and 11 in. at nose. Monkey is 4¼ in. long, 1¾ in. diameter. Hearth wall is 3 ft. thick and 4 ft. 4 in. high; from this bosh wall is 27 inches thick and contains 5 complete circles, double thick 1 in. pipe cooling plates. There are also two coolers between each tuyere arch. Bosh is strengthened by 5 bands 8 in. by 1 in., with two 2½ in. expansion bolts at each joint.

Stock is raised to top in wrought-iron trestle lattice work hoist tower supported on solid stone foundations; roof is covered with corrugated iron to bridge floor level; automatic safety cages, double 1 in. wire rope, operated

HAMILTON BLAST FURNACE CO.—Continued.

by an automatic hoist engine, cylinders 12 x 12 in., built by Crane Mnfg. Co. Engine is placed in a brick building situated at foot of hoist tower.

Cast house is 50 ft. x 160 ft. from centre of furnace to end-wall and surrounds back of furnace in octagonal form. Foundations are solid limestone, walls red brick, roof corrugated iron and fits furnace casing, has ventilator running full length on apex of roof, is 6 ft. wide, 4 ft. high. Roof frame is strong enough to support two over-head trolleys, running over pig beds to remove the iron. The hot blast arrangements consist of three stoves constructed after the Gordon Cowper Whitwell patents, a 3-pass stove which has been well recommended by all furnace masters who have had experience in their use.

They are capable of sustaining a regular blast temperature up to 1,600° F. Each stove is 60 ft. x 19 ft., surmounted by a conical casing, topped by a 40 ft. chimney 36 in. diameter in the clear. A circular platform 24 in. wide with hand rail at convenient height surrounds top of each stove, these coming together form a bridge from stove to stove. Valves are all of the gate type (except air valve), and worked with rack and pinion.

Gas valves and hot blast valves are water cooled. In chimney valve the arrangement of valve and seat is such that the draft of the chimney induces passage of a strong current of air through them, protecting them from the heated gases.

These chimney valves are operated from the ground level by means of a ½ inch wire rope with the necessary mechanical connections.

Flues in checker work 9 x 9 in clear. To a certain extent the stoves are self-cleaning, as every time stoves are released, compressed air will carry out a certain amount of dust with it. As to arrangements for general cleaning, a small crane pivoted on a truck travels around platform at head of stoves; jib of crane is long enough to reach the cleaning doors on conical top These six holes are 12 x 20 in. Chain on crane has scraping weight at one end and counter-weight at the other end. At bottom of stove are a set of steam blowers and three 20 in. cleaning doors. From dust catcher a 40 in. gas main runs across the face of the stoves; and from this main are three down pipes 30 in. diameter, ending in conical balanced explosion and cleaning doors; attached to these down pipes are 18 in. gas connections (provided with expansion and ball joints) which extend to gas valve of each stove.

Hot blast main is 60 ft. long, 40 in. diameter, and lined to 24 in.

Cold blast main is 24 in. diameter, thickness of plate $\frac{3}{16}$ in.

Boilers built by Brownell & Co., Dayton, Ohio, are 12 in number, situated in a brick building 50 x 80 x 18 ft. to the square. Thirteen and a half in. brick wall (and corrugated iron roof) provided with the necessary doors, ventilating arrangements, etc. They are 59 in. by 24 ft., with five 12 ft. lap welded flues. Running across each pair of boilers is a 30 in. by 9 ft.

HAMILTON BLAST FURNACE CO.—Continued.

steam drum, connected with two 12 in. legs 3 ft. long. Each pair of boilers constitute a battery, and are set in one setting so that any two may be thrown out while the rest are working.

A down pipe from dust catcher goes to underground flue running across face of boilers. Flue has an area of 14 sq. ft., lined with 9 in. fire brick, sustained by retaining walls and provided with necessary cleaning and explosion doors.

Gas from flue enters burner of the Gordon, Strobel, and Laura patents, that are situated to one side of the front of boilers. There is only one firing arrangement for each pair of boilers.

Discharge main for gases from boilers runs along top and front. It is 48 in. in diameter, lined with 2 in. circular fire brick. At either end is a 60 in. connection to draft stack, lined in same manner. Draft stack is steel, brick lined, 125 ft. high and 7 ft. in the clear.

The blowing engines, manufactured by the Philadelphia Engineering Company, consist of two vertical poppet valve engines, steam cylinders 42 in., blast cylinders 84 in. with a common stroke of 60 in. They are independent of each other and can be operated singly or together. Each engine has two fly wheels 18 ft. in diameter. Total weight of each engine is 100 tons, horse power each, 1,200.

Foundations for engines are of hard burned brick, laid in hydraulic cement and flushed solid.

Engine house, brick with corrugated iron roof. In the same building are the circulating and boiler feed pumps. Circulating pumps consist of two duplex steam pumps, steam cylinders 14 in., water 14 in., stroke 18 in Water comes from lake through a 700 foot line of cast iron pipe, well out in the lake and will be free from all shore troubles. From pumps water is discharged to stand pipe 60 ft. high by 12 ft. diameter, plates 5-16 and 3-16 in., well sustained by angle iron bracings. From here water is distributed to all parts of plant, and all waste water is returned to lake by special connections.

Boiler feed pumps (two in number), duplex steam plunger, steam cylinder 8 in., water plunger 5 in., stroke 10 in.; and they are so arranged that either can be taken out while the other is working. Feed water heater contains 500 square feet solid drawn brass tubing.

Blacksmith shop and tool room in a brick building to the south of boiler house. Consists of one building, but solid wall separates tool room from shops.

Stock house is a good substantial building, but is already proving rather small, and will have to be enlarged. It is 70 ft. span by 232 ft.; posts are 10 x 10 in., and 30 ft. high, strongly framed; main rafters are 8 x 8 in., trussed together and bound by iron bolts; 4 in. purlins, 2 ft. 8 in. apart, are fastened to rafters; sheeted with 1 in. board and all covered with corrugated iron.

HAMILTON BLAST FURNACE CO—Continued.

Flooring is 2½ in. pine, laid on 5 x 5 in. stringers.

Charging scales are Fairbanks latest locked beams, four posts, with clear way to hoist tower. The track scales are Burrow, Stewart & Milne's Imperial Standard. There are two railway trestles of easy grade in stock house, for dumping supplies.

The length of the company's tracks, including that connecting with the Grand Trunk Railway, is about two and a half miles. The company has erected a substantial dock about 1,200 ft. long, which is designed to carry machinery for discharging ore from vessels; also a brick office building, in which is provided accommodation for the Superintendent, Secretary-Treasurer, clerks and chemist.

FURNACE OUTPUT IN 1896-7-8.

	1896.	1897.	1898.
Ore smelted.....tons	51,138	37,492	68,770.83
Scale and mill cinder..... "	5,883	5,350	7,691.62
Limestone for flux..... "	8,657	9,473	12,320.82
Coke for fuel..... "	30,348	27,810	50,407.37
Pig iron product..... "	28,302	24,011	43,083.51
Value of product..... $	353,780	288,128	.....
Wages for labor..... "	47,000	40,000	.....
Average workmen..... "	125	130	140

HAMILTON IRON MINING CO., Limited.

Incorporated 12th May, 1897. Authorized Capital, $90,000.

Directors:

John Milne. A. E. Carpenter. Wm. Southam. Henry New.

Head Office: A. W. Peene, Secretary, Cor. James and Main Streets, Hamilton, Ont.

Mine Superintendents: Arthur Coe, Madoc, Ont., Thos. Barnes, Algoma Mills, Ont., Wm. Edgar, Sharbot Lake, Ont.

Mines at Eldorado, Calabogie District, Algoma Mills, and near Kingston, Ontario. The output for 1897 was 700 tons, but did not mine during the whole year. 120 persons employed.

HAMMOND REEF CONSOLIDATED MINING CO., Limited.

Incorporated under Ontario Statutes, 1897, and reorganized, June, 1899.
Authorized Capital, $5,000,000, in shares of a par value of $1.00.

Officers:

Sir Richard Cartwright, President.
Wm. McKenzie, 1st Vice-President. Clarkson Jones, 2nd Vice-President.
W. H. Garvey, Secretary-Treasurer.

Directors:

Sir Richard Cartwright.	Hon. George A. Cox.
Wm. McKenzie.	Hon. Lyman Melville Jones.
Clarkson Jones.	Col. G. A. Sweny.
B. W. Folger.	John Morty.
Walter Macdonald.	George H. Watson.
H. M. Pellatt.	James Hammond.

R. R. Sproule.

Head Office: 37 Yonge St., Toronto, Ont.

Mine Office: Sawbill, Ont.

This company is a consolidation of the Hammond Reef Gold Mining Company and the Folger-Hammond Syndicate, and at 1st June, 1899, it owned some 19 mineral claims, comprising 750 acres, at Sawbill Lake, Seine River District, Ontario. Open cast workings. Equipped with 40 stamp battery, built by the Jenckes Machine Co., and driven by an electric plant furnished by the Canadian General Electric Company. In a report upon the property, Dr. A. P. Coleman, Toronto (Seventh Report Ontario Bureau of Mines) says:—

On location 316 X, towards the south-west, the shattered band of protogine, with intermixed quartz, is much wider, at least 300 feet. Some of it is breccia like, and portions are of green schist, similar to that already described. Here a series of small pits and strippings has been carried across the zone or reef, disclosing on the whole, better looking quartz than that at the open cut, on 337 X. A bit of rock, from this portion, weighing three or four ounces, panned very well, showing a tail of very fine gold an inch and a half, or two inches long. This was, of course, a selected piece, and no doubt ran much higher than the average.

At the time of my visit the mill was not completed, and no important test had been made of the ore; but I satisfied myself that the deposit, including shattered protogine and quartz, forming what the Germans call a

HAMMOND REEF CONSOLIDATED MINING CO.—Continued.

"stockwork" is of immense dimensions; and that some parts of it, at least, carry gold.

As good water-power is available on Clearwater Creek, two or three miles away, a large mill could be operated inexpensively; and I estimate that by working on a sufficient scale, the huge ore body could be treated at a profit, if it will average $5.00, or perhaps even less, of free milling gold. If the average rock runs above $5.00 it seems as if the mine should be a very profitable one, and if the whole width of from 100 to 300 feet, with a length of about three-fourths of a mile, as far as followed by myself, should turn out to be of workable grade the mine must certainly be of very great magnitude, and could be worked for a long time quite inexpensively as an open quarry.

Seven assays of ore from the Hammond Reef were made in the laboratory of the School of Science, Toronto, chiefly from samples obtained on 316 X. Three were select samples, and, of course, run above the general average. The highest, taken from a small cut, two hundred feet from the west wall, on location 316 X, yielded 3 oz. 3 dwt.; two others, 1 oz. 18 dwt., and 1 oz. 9 dwt. respectively. Three samples, taken from average rock, give a trace, 4 dwt. and 16 dwt. per ton. A specimen, picked up from the tramway ballast, gave 1 oz. 19 dwt., but, of course, an average of the ballast would probably run much lower. The results of assays given here must not be taken as representing the average value of the ore, since no attempt was made to sample such an immense body of ore in a complete way, our time being too short for the purpose; but the results certainly show that the rock is auriferous over a considerable width.

HANSARD GOLD AND COPPER MINING CO., Limited.

Incorporated 1st June, 1896. Authorized Capital, $1,000,000, in shares of $1.

Officers:

Martin O'Reilly, President.
Robert Shield, Vice-President, and Superintendent.
F. W. Swannell, Secretary-Treasurer.

Head Office: F. W. Swannell, Secretary-Treasurer, Nelson, B.C.

Owns and is developing the Lone Star mineral claim, 2½ miles north of Whitewater Station, Slocan District, British Columbia.

HASTINGS (BRITISH COLUMBIA) EXPLORATION SYNDICATE, Limited.

Registered in England, 22nd February, 1897. Authorized Capital, £100,000, in 97,000 A shares, and 3,000 B shares of £1 each; 16,947 shares have been issued and 20s. per share called up.

Directors:

James Head, Chairman.
Sir Robert Birkbeck, Bart. Lord Hastings. Bertram F. Astley.
Richard H. Combe. Hon. Edgar Dewdney.

Head Office: Ernest C. Ricks, Secretary, Dashwood House, 9 New Broad Street, London, E.C.

Mines Office: Box 4, Kaslo, B.C.

Formed to obtain openings for the employment of capital in British Columbia, or elsewhere, and to acquire and turn to account mines and mining rights. The Syndicate has acquired and is developing eight claims in the Fort Steele District, B.C., one claim near Slocan City, and also has acquired a group of claims known as the Arlington Group, consisting of six claims, at Erie, in the Nelson Mining District, 2½ miles from the Nelson and Fort Shepherd Railway.

The following is excerpted from the reports of the last annual general meeting of the shareholders:

The Chairman said: The balance-sheet speaks for itself fairly well, and from it you will see that we have expended something like £6,000 in developments, and that, I may say, has been almost entirely devoted to one purpose, namely, the development of the Arlington Claim. The Syndicate, as you are aware, has acquired a great many other properties, but we have concentrated the whole of our attention on the Arlington as the one most deserving of it, and I am glad to say that in this we have not been disappointed. The Arlington promises to-day to fulfil every expectation, and, indeed, we hope we shall find this really a mine, and not merely a hole in the ground, or, as one gentleman reported it to be, at an earlier stage, a mere saddle-bag deposit. A saddle-bag, as you will easily understand, is not a deposit that goes very far into the ground. However, we are down something like 400 ft., and testing the vein by drifting to the north and south of it. So far, we have hardly got such full particulars from our mining engineer on the spot as we should wish. He was to have sent us a cablegram to-day giving us the latest information, but we have only his report received ten days ago, when he told us he was beginning to cross-cut north and south about 30

HASTINGS (B.C.) EXPLORATION SYNDICATE—Continued.

ft. from the incline shaft, through which all our explorations have been done so far. We are most anxious to ascertain what the results of the drifting north and south may be, and also particularly as regards the cross-cutting, for we have been working, as I glean from his reports, in a shaft which takes up 5 ft. of the vein, and in that so far we have been working on the footwall, and have a body of ore which, we hope, will extend a good many more feet in width; but it certainly extends to 5 ft. Until we receive a report from our mining engineer as to the results of the cross-cutting, it is quite impossible for us to make any prophecy as to what we have before us. The assays have been exceedingly favourable. The latest assay he took—a carefully selected general assay—amounted to something like $28 per ton across the entire width of the vein as far as it had been opened. That tallies with the results of our ore that we sent to the smelter. We sent three carloads of ore to the smelter with the result that we netted about £3 10s. a ton profit, and as you will know if you have a property which contains ore which can be sent to the smelter in bulk and return a profit of £3 10s. a ton, you have something very handsome indeed, if you can only prove your vein to be anything like a true fissure vein. The formation appears to be of a settled nature, and we are in great hopes that the further developments which are now taking place will prove the vein not only to be permanent, but of considerable width.

HASTINGS SILVER-LEAD MINING CO., Limited.

Incorporated 1897. Authorized Capital, $50,000, in shares of $10.00 each.

Directors:

G. J. Ashworth, Toronto, Ont. | J. J. Ashworth, Toronto, Ont.
H. A. Drummond, Toronto, Ont. | T. W. Hector, Toronto, Ont.
W. J. Morris.

Formed to carry on in all its branches the business of a mining, milling, reduction and development company.

HATTIE BELL GOLD, COPPER AND NICKEL CO., Limited.

Incorporated under the Laws of Ontario, 1898. Authorized Capital, $400,000, in shares of a par value of $1.00.

Officers:

J. B. Vallentyne, Sunderland, Ont., President.
D. Baird, Uxbridge, Ont., Vice-President.
U. S. Yerex, Sunderland, Ont., Secretary-Treasurer.

HATTIE BELL CO.—Continued.

Directors:

J. B. Vallentyne. J. B. Mitchell. U. S. Yerex. C. B. Jackes.
D. Baird. John Park. W. S. Summerfeldt.

Head Office: Sunderland, Ont.

Mines Office: J. B. Mitchell, Parry Sound, Ont.

Owns and is developing four mineral claims, in the District of Parry Sound, Ontario, known and described as follows:—⅔ interest in the Lafex Copper and Nickel Mining location; ⅜ interest in the Sheard Gold, Copper and Nickel Mining location; an entire interest in the Land Mica Mining location, and a ¾ interest in the Beckett Gold, Silver and Platinum location.

HATTIE BROWN GOLD MINING CO., Limited.

Incorporated under the Laws of British Columbia, 4th June, 1896, and re-registered 4th December, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

J. W. Binkley, President. Wm. Atchinson, Secretary.

Head Office: Spokane, Wash.

Registered Office: James Morris, Attorney, Rossland, B.C.

Owns the Hattie Brown mineral claim, situated on the south east slope of Deer Park Mountain, Trail Mining District, British Columbia.

HATTIE GOLD MINING CO., Limited.

Incorporated 23rd October, 1896. Authorized Capital, $1,000,000, in shares of $1.00.

Directors:

Montgomery Smith. W. A. Campbell. Robert Scott.

Registered Office: Rossland, B.C.

Owns the Hattie mineral claim on Deer Park Mountain, near Rossland, B.C.

HAWK BAY GOLD MINING CO., Limited.

Incorporated 1896. Authorized Capital, $150,000, in shares of $1.00.

Directors:

F. C. Bruce. | John Tilden. | S. C. Newberry. | H. N. Kitson.
H. C. Beckett. | Hugh C. McLean. | F. S. Wiley. | H. A. Wiley.
S. C. Newburn.

Head Office: H. N. Kitson, Sec.-Treas., Hamilton, Ont.

Mines Office: H. A. Wiley, Managing Director, Port Arthur.

Owns and operates mining location 324 X, situate on Hawk Bay, on the Seine River, in the Rainy River District, Province of Ontario, comprising 53 acres. Vein worked averages three feet, yielding about $17 in gold per ton. Equipped with 35 h.p. boiler (loco. type), Rand compressor, Bacon hoisting engine, cylinder 7 in. x 10 in., Northey pumps and other machinery. Being opened up.

HEAD LIGHT GOLD MINING AND EXPLORATION CO. OF ONTARIO, Limited.

Incorporated under the Laws of Ontario. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

J. P. Rossman, President.
Geo. V. Burgess, Vice-President.
A. E. McManus, Secretary and Treasurer.

Directors:

J. P. Rossman, Duluth, Minn. | A. E. McManus, Duluth, Minn.
J. C. Donnelly, West Superior, Wis. | Geo. V Burgess, Duluth, Minn.
Geo. H. Claypool, Duluth, Minn.

Head Office: A. E. McManus, Sec.-Treas, Duluth, Minn.

Canadian Office: Mine Centre, Ont.

Owns and is developing Mining Location E. 237, known as the Swede Boy claim, and situated on Turtle Lake, Seine River District, Ontario.

HEAD LIGHT MINING AND MILLING CO.

Incorporated under the Laws of the State of Washington. Authorized Capital, $100,000, in 1,000,000 shares of a par value of 10 cents.

Officers:

J. F. Cameron, President.

D. Holzman, Vice-President. A. G. Hanauer, Sec.-Treas.

Directors:

Dr. E. T. Richter. | J. F. Cameron.
E. F. Massam. | A. G. Hanauer.

D. Holzman.

Head Office: A. G. Hanauer, Sec.-Treas., 519 The Rookery, Spokane, Wash.

Owns and is developing the Head Light, Well Met and Diamond Fraction mineral claims, situated on Sullivan Hill, Fort Steele District, East Kootenay, British Columbia.

HEATHER BELL GOLD MINING CO,, Limited.

Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

J. J. Withrow, President.

W. Croft, Jr., Vice-President. I. E. Suckling, Sec.-Treas.

Directors:

J. J. Withrow, Toronto, Ont. | J. H. Housser, Toronto, Ont.
W. Croft, Jr., " " | I. E. Suckling, " "
E. Nerlich, " " | A. Robinson, London, "
A. J. H. Eckhardt," " | A. W. Wright, Rossland, B.C.

S. Forteath, Rossland, B.C.

Head Office: Isaac E. Suckling Sec.-Treas., Toronto, Ont.

Mine Office: Rossland, B.C.

Owns the Heather Bell, Ramping Lion and Livingstone mineral claims, located on Sullivan Creek, back of the Columbia River, Trail Mining District. At a meeting of the shareholders, held in June, 1899, the Directors reported that $20,000 had been paid for the company's three properties of 156

HEATHEN BELL GOLD MINING CO.—Continued.

acres, that they were Crown granted, that they were paid for in full and were free from debt or encumbrance of any kind. The report of the late Superintendent stated that 248 feet of shafting and tunnelling had been done (50 foot shaft, 198 foot tunnel), and that the tnnnel had been in ore from ten feet from the mouth. They had expended $5,919.45 in the above work and in the erection of buildings, etc. Some time ago the Directors deemed it advisable to discontinue work, but the Directors have been strongly advised by the Rossland holders of shares, to follow in a drift the chute of high value ore which was met in the sinking of the shaft and from which assays ranging from $23 to $97 were obtained. These shareholders, who are practical mining men, give every assurance that, in spending $1,500 in this particular way, the value of the mine will be demonstrated to improve in value. The meeting endorsed this proposition, and it was decided that as soon as the amount, $1,500, was raised, the work specified should be commenced. Resolutions were unanimously adopted to this effect, and it was also decided to offer to the present shareholders a block of 30,000 shares at the price of five cents per share, in order to realize the amount of money required. It was decided that not more than 2,000 shares should be allotted to any one shareholder—and also, that if the amount required was not received by a given time, the subscriptions were to be returned to the various subscribers.

HEATHER BELL MINING AND MILLING CO., Limited.

Incorporated in British Columbia, 6th February, 1897. Authorized Capital, $500,000, in shares of $1.00.

Directors:

F. S. Davis. Arthur Mullen. J. Watson.

Officers:

Arthur Mullen, President.

F. S. Davis, Manager. W. M. Hunter, Secretary-Treasurer.

Head Office: Sandon, B.C.

Owns and is developing three full claims and one fraction, located two miles from Sandon, and one mile from Three Forks, Slocan Mining District, British Columbia.

HIAWATHE GOLD MINING AND MILLING CO, OF ONTARIO, Limited.

Incorporated 1897. Authorized Capital, $500,000.

Directors:

H. E. Kyle. F. McPhillips. D. O. Cameron. W. A. Harvey. James Hammond.

Head Office: F. McPhillips, Secretary, 1 Toronto St., Toronto, Ont.

Mines Office: W. A. Harvey, Hiawathe Mine, Saw Bill Lake, Ontario.

Owns and operates location 336X, containing about 80 acres. Situate about one mile N.W. of the south end of Moose Lake, an expansion of Seine River, and forty miles from Bonheur station on the Canadian Pacific Railway. Four veins are reported on the property, varying in size from 3 feet to 6 feet on surface. Opened by 3 shafts. Being equipped with a suitable mining plant.

HIGHLAND CONSOLIDATED GOLD MINES, Limited.

Registered in England, 14th May, 1897, by J. G. Maxwell, 97-98 Bishopgate Street Within, London, E.C. Authorized Capital, £125,000, in shares of £1.

To carry into effect an agreement with D. D. Book & Co., for the acquisition of certain mines, mining, water and other rights in British Columbia, and to carry on the business of mining.

HIGHLAND GROUP MINING & DEVELOPMENT CO., Limited.

Incorporated 4th January, 1897. Authorized Capital, $1,000,000, in shares of $1.00.

Officers:

I. S. Freeze, President.
Hugh McMillian, Vice-President. A. B. Doekstader, Secretary-Treasurer.
George T. Lundy, Superintendent.

Head Office: Lundy, B.C.

Owns and is developing the Highland Group of mineral claims, on the Lardeau River, near Ferguson, Trout Lake Mining Division, British Columbia.

HIGHLAND MILL AND MINING CO., Limited.

Registered in British Columbia, 3rd May, 1899. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Head Office: Camden, N.J.

CANADIAN OFFICE:
Maxwell Stevenson, Jr., Ainsworth, B.C.

Formed to purchase, or by any other means acquire, and hold the Highlander, Ivanhoe, and other mineral claims, situated at Ainsworth, District of West Kootenay, Province of British Columbia, or any interest therein.

HIGHLAND MINING CO. OF BRITISH COLUMBIA, Limited.

Incorporated 5th April, 1897. Authorized Capital, $1,000,000.

Head Office: E. D. Carter, Ainsworth, B.C.

Owns and is developing the Highland, Josephine, Maggie, and Esther May mineral claims, 1¼ miles north of Ainsworth, British Columbia.

HILL TOP GOLD MINING CO., Limited.

Incorporated under the Laws of the State of Washington, and registered in British Columbia, 24th September, 1896. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

Wm. N. Dunn, President.
W. A. Campbell, Vice-President. W. H. Ziegler, Secretary.

Head Office: W. H. Ziegler, Secretary, Ziegler Block, Spokane, Wash.

Canadian Office: W. A. Campbell, Rossland, B.C.

Owns and is developing the Hill Top mineral claim, 3 miles from Rossland, British Columbia.

HOMESTAKE MINES, Limited.

Incorporated in British Columbia, 17th August, 1898. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Canadian Office: Rossland, B.C.

Formed to purchase or acquire by amalgamation or otherwise, all of the assets, rights, powers, privileges and franchises of the Rossland Homestake Gold Mining Company (Limited Liability), and to purchase or acquire the interests or shares of any or all of the shareholders of the Rossland Homestake Gold Mining Company (Limited Liability), and to issue paid-up stock of the company, or stock of the company, in part paid up, or both therefor, and to adopt and carry into effect, with or without modification, certain agreements which have been already prepared and are expressed to be made between the Rossland Homestake Gold Mining Company (Limited Liability), of the one part, and William Stearne Deacon, on behalf of the company of the other part, and which agreements are to be signed immediately after the incorporation of the company; and also to adopt and carry into effect any agreement made between the said Rossland Homestake Gold Mining Company (Limited Liability) and its liquidator, which has the object of carrying out an arrangement under section 13 of the "Companies Winding-up Act, 1898."

HORNBLENDE GOLD MINING CO. OF ONTARIO, Limited.

Incorporated under the Companies Act and the Ontario Mining Companies Incorporation Act. Authorized Capital, $900,000, in 900,000 shares of $1.00 each.

Directors:

N. Merritt, Toronto, President.
H. A. Drummond, Toronto, 1st Vice-President.
Hon. A. R. Angers, P.C., Q.C., Montreal, 2nd Vice-President.
E. T. Bartlett, Montreal, Managing Director and Secretary.
Lieut.-Col. W. Ingersoll Merritt, London, England.

Chas. A. Duclos, Montreal. | Randolph MacDonald, Toronto.
A. W. Crosby, Toronto. | Hubert A. Donovan, Toronto.

Head Office: E. T. Bartlett, Managing Director, Standard Chambers, 151 St. James St., Montreal.

Owns and is developing the Eureka, Kiss-Me-Quick, Martin, Ida, Eagle and Grover mineral claims, on Wa Wa Lake, Michipicoten District, Ontario.

HORSEFLY GOLD MINING CO.

Incorporated under the Laws of the State of California. Authorized Capital, $1,000,000, in shares of $10, of which at date, 800,000 shares have been subscribed.

Directors:

H. N. Morse, President.
Fred. H Beaver. | L. P. Drexler.
R. T. Ward. | M. W. Harlow.
Milton Babb.

Registered Office: 16 Chancery Lane, Victoria, B.C.

Head Office: R. T. Ward, Secretary and Manager, 610 Clay Street, San Francisco, Cal.

Mines Office: Quesnelle, B.C.

The property contains 360 acres of auriferous mining ground on the Horsefly River, Cariboo District, Province of British Columbia; 140 miles by waggon road, north of Ashcroft, a station on the main line of the Canadian Pacific Railway, together with the right to all the necessary water from an adjacent stream, to hydraulic the same, arriving on the ground under a pressure of over 300 feet. The property was formerly known as the Harper leasehold. The claim is 2,640 x 5,940 feet, with an estimated average depth of over 50 feet, and is located on an ancient channel, similiar in formation and appearance, to the well-known blue gravel lead of California. On this lead, within the boundary of this claim, over thirty shafts have been put down to bedrock from thirty to one hundred and fifty feet in depth, and numerous tunnels and cross-cuts run in different directions to prospect the ground, in all of which gold is found in paying quantities. For twenty years placer claims have been worked on the surface of this ground, in a small way, with sluice and rockers, with flattering results, one claim alone having taken out in this way over $300,000—and rockers have been known to pay from bedrock over $200 per day to a single rocker. The following is excerpted from the Report of the Minister of Mines, for 1897:—

To work this gravel at Harper's Bar, an hydraulic elevator plant has been installed, as nearly all the ground that could be laid bare by wing-damming, etc., had been worked, and two pits have been begun, one on either side of Horsefly River, but lack of water prevented the final clean-up of the sluice boxes, the pits at once filling up when the elevators ceased working. This mining is not only removing the modern gravel, but is laying bare the rim rock of shaley clay rock and blue gravel, of which, a considerable amount can be thus handled if sufficient water is procurable and the sluices are run out to give a good dump to the tailings.

By agreement with the Horsefly Hydraulic Company, this company secures all surplusage of water in Mussel Creek, above what the former com-

HORSEFLY GOLD MINING CO.—Continued.

pany requires and can carry off in its system of ditching, but this arrangement has already led to trouble and legal complications.

A ditch five miles long, four feet wide on bottom, three feet deep and grade 6.4 feet per mile has been dug from the dam on Mussel Creek, then a pipe line 9,500 feet long has been laid to the mine, of which, 7,000 feet are 30 inches in diameter, of No. 12 steel plate, reducing to 26 inches in diameter, while below the Y, two lines, each 22 inches in diameter, are contracted to 15 inch pipe for the elevators and 11 inch for the monitors, so that there are about 13,000 feet of pipe line. The total head of water at the elevators is 305 feet, with a pressure of 105 pounds per square inch.

In China Pit, on the left hand of the river, the elevator lifts the gravel, water, etc., 4,040 feet into the sluices, and with a four inch nozzle, 12 inch throat and 18 inch discharge pipe, elevates about 1,000 cubic yards of gravel per 24 hours, using a No. 3 monitor with a three inch nozzle.

In the other pit the elevator, with a 5 inch nozzle, a 16 inch throat and a 22 inch discharge pipe, is calculated to raise 33 feet, 1,500 cubic yards of gravel, using a No. 3 monitor with 4 inch nozzle.

In the pits at the foot of the elevators are short sluice boxes 20 to 24 inches wide, and at the head the discharge sluices are 34 and 48 inches wide, but comparatively short length, so that the tailings are being dumped close to the pit.

During the last season mining operations began April 13th, and a full supply of the water lasted to August 20th, but mining could not be carried on all that time, for in the season of highest water, from four to six weeks in June and July, when the water is most abundant for mining purposes, the workings are flooded, except the China Pit, which is flooded only in excessively high water. This pipe line will not carry enough water to keep both elevators working at the same time, the large one requiring the maximum supply for efficient work, the smaller one in China Pit being used when water begins to slacken. Hence, when water is in greatest supply, flood water greatly prevents its use. On the stoppage of the water some of the sluice boxes were cleaned up, but a general clean up was not possible before the pits filled, for although some gold is lifted with the gravel, the most of it is caught in the boxes at the foot.

Trouble and delay were felt by the wearing out of the castings in the elevators. During another season, if a continuous supply of water can be got, a much greater amount of gravel can be mined, the pits got into better shape and some definite results obtained, and as the rich ground gets below the influences of these appliances, drift mining will have to be resorted to if the ground proves rich enough to pay for this system of mining.

Timber is scarce close by and has to be hauled two or three miles. While working, 16 men were employed at $1.50 to $2.50 per day and board, pipemen getting $2.00 per day and board and the necessary rubber boots.

An electric light plant lights the workings with seven arc lights, a pipe running from the main line to a Pelton wheel that supplies power for the dynamo.

HORSEFLY HYDRAULIC MINING COMPANY, Limited.

Incorporated 1893. Authorized Capital, $250,000, in shares of $10. In 1896 debentures were issued for the sum of $150,000, payable in five years and bearing interest at 10 per cent. per annum.

Directors :

President—B. T. Rogers.
J. M. Browning. W. F. Salsbury.
Secretary—A. Oakley.

Principal Place of Business : Vancouver, B.C.

Location of Works : Horsefly, Cariboo District, B.C.

Manager, J. B. Hobson, M.E., Horsefly, B.C.
Asst. Manager, G. W. Snyder, Horsefly, B.C.

The company's property is situated on the Horse Fly River, about 150 miles north of Ashcroft on the line of the Canadian Pacific Railway. It is 53 miles north of the 108 Mile House, on the Cariboo waggon road, and about six miles south of the Quesnelle Lake, in Cariboo District, B.C.

It comprises 19 mining leases, aggregating about 2,100 acres of land, covering the auriferous gravel deposits of an ancient river.

The deposits contain a large percentage of rounded, water-worn pebbles, cobbles and boulders of quartz, and are similar in character to the best of the famous deep gravel deposits of the ancient rivers of central California, known as the Blue Lode.

The bedrock, constituting the floor of the workings, is about 90 feet above high water mark of the Horse Fly River. The water system, as now successfully completed, brings water from Mussel Creek, a southern tributary of the Horse Fly River, by a ditch and pipe line 12½ miles in length, with a capacity for delivering 1,800 miner's inches of water.

The pipe line is of steel, 30 inches in diameter, made in two inverted syphons, aggregating 8,300 feet. There are also three sections of 3 x 5 feet flume on the line of ditch, aggregating 600 feet.

Water is delivered from the main ditch under a head of 168 feet, and from the Rat Lake pooling reservoir near the mine, under a head of 106 feet, affording ample power for operating the property by hydraulic process where found suitable, or to operate a 100 stamp mill, if required, to crush the cemented gravel encountered in the workings opened in the company's property in the Discovery and Foyle claims.

HORSEFLY HYDRAULIC MINING CO.—Continued.

The mines are equipped with a complete portable hydraulic plant of 18 and 22 inch pipes, and six No. 8 hydraulic giants.

During the progress of the opening work done during the season of 1894, 1895 and 1896, the sum of $92,425.00 gold was recovered from 750,000 cubic yards of gravel and extremely hard cement.

The ten stamp mill furnished and erected by W. D. Matthews, Esq., under agreements entered into and approved at the annual meeting held in March, 1897, was completed for operation by water power, (as per agreement) and turned over for the company's use on the 10th day of July, 1897, after which time the gravel extracted during the progress of the development work was delivered at the mill and crushed.

The result of the crushings is given in the following statement:—

STAMP MILL REPORT.

DATES.	Mill run hours.	No. stamps.	Tons of gravel crushed.	Gold recovered.	Yield per ton.
July 10 to Aug. 3 ..	426	10	1,100	1,093 07	99
Aug. 3 to Sept. 5....	488	10	1,660	1,890 78	1 33
Sept. 5 to Oct. 3....	538	10	1,987	2,388 12	1 25
Oct. 3 to Oct. 10....	133	10	629	1,120 00	1 78

SUMMARY.

Time run with 10 stamps	1,673 hours.
Quantity of cemented gravel crushed	5,376 tons.
Gold recovered	396.60 ounces.
Value of gold	$6,446.50

HORSEFLY VALLEY MINING & PROSPECTING SYNDICATE, Limited.

Head Office: James M. Drysdale, Secretary, 150 Leadenhall Street, London, E.C.

Registered in England, 2nd July, 1897, to carry into effect an agreement with C. E. Campbell, and to acquire and deal with mining properties in British Columbia. The Authorized Capital is £25,000, in shares of £1.

HUMMING BIRD (B.C.) GOLD MINES, Limited.

Authorized Capital, $2,000,000, in shares of $1.00.

Directors:

Smith Curtis, Rossland, B.C., President.
Herbert Bolster, Spokane, Wash., Vice-President.
J. L. G. Abbott, Rossland, B.C., Secretary-Treasurer.
S. Dilsheimer, Colville, Washington. W. A. Major, Rossland, B.C.

Head Office: J. L. G. Abbott, Sec.-Treas., Rossland, B.C.

Formed for the purpose of acquiring the Humming Bird and the O.K. mineral claims, situate twelve miles north of the City of Grand Forks, in the Grand Forks Mining Division of British Columbia, being on the west side of the North Fork of Kettle River.

It is proposed to issue 750,000 shares in payment for the Humming Bird mineral claim on transfer being obtained for same, and to issue 750,000 shares for the O.K. mineral claim, when certificate of improvements issues therefor. The remaining 500,000 shares will be placed in the treasury and sold for development and company purposes only. 1,500,000 shares to be issued in payment for said properties will be pooled until the 1st day of May, 1900, reserving, however, the right to the Directors to unpool one-third thereof whenever $25,000 shall have been paid into the treasury from the sale of treasury shares or whenever the ore "in sight" has a net value of $50,000; also with power to the Directors to continue the pool wholly or partially beyond the 1st day of May, 1900.

HURRICANE POINT GOLD MINING CO., Limited.

Incorporated in Nova Scotia, 1897. Authorized Capital, $250,000: paid up, $100,000. A dividend of $10,500 has been paid for the year ended January, 1899.

Directors:

George A. Pyke, President.
Hon. David McKeen. | Patrick O'Mullin.
J. E. Burchell. | John McMillan.

Head Office: George A. Pyke, Halifax, N.S.

Mine Office: W. F. Fancy, Manager, Isaac's Harbor, N.S.

Owns and is developing 69 gold areas at Isaac's Harbor, Nova Scotia. 37 persons employed.

H. W. McNEILL CO., Limited.

Incorporated 8th January, 1892. Authorized Capital, $50,000, in 500 shares of $100.

Directors:

H. W. McNeill, Anthracite, N.W.T.
E. L. Little, Anthracite, N.W.T. Will. F. Little, Anthracite, N.W.T.

Head Office: H. W. McNeill, President, Anthracite, N.W.T.

W. A. McNeill, Vice-President, Oskaloosa, Iowa.
W. F. Little, Manager. O. E. S. Whiteside, Ba. Sc, Mining Eng.

Formed to mine and extract coal in the Dominion of Canada. It operates mines under a ten years' lease, from June 1st, 1891, on the property of the Canadian Anthracite Coal Company, Limited, on the line of the Canadian Pacific Railway, at Anthracite and Canmore, Province of Alberta.

Mining capacity at Anthracite, for house use exclusively, 150 tons per day. Mining capacity at Canmore, for locomotive use, 600 tons per day.

Business year ends June 1st. Production averages per annum, 120,000 tons. Muesseler safety lamps used. Fan ventilation. Pillar and room system. Three hundred men employed. The output in 1897 was: Anthracite colliery, 11,700 tons; Canmore, 95,000 tons. 1898: Anthracite colliery, 23,000; Canmore colliery, 121,000 tons.

IBEX MINING COMPANY, Limited.

Registered in British Columbia, 23rd November, 1896. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

G. A. Pounder, President.
W. J. Green, Vice-President. F. A. Scaman, Secretary-Treasurer.
John A. Pounder, Mine Superintendent.

Head Office: Rossland, B.C.

Owns the Ibex mineral claim, situated in the South Belt, Trail Creek Mining District, British Columbia.

IDAHO MINES.

This silver-lead producing property comprising a group of 21 claims, at Alamo, Slocan District, British Columbia, belongs to the Scottish Colonial Gold Fields, Limited, (see notice in this volume) which owns an undivided ¾ interest, the other ¼ interest being held by Mr. G. W. Hughes.

Canadian Office: G. W. Hughes, Managing Owner, Alamo, B.C.

The management report, under date 22nd May, 1899:—

"The property has been self-sustaining from the time it was staked. It has been operated at irregular intervals since 1892, and a great portion of the time in a very small way. There has never been any working capital provided except from the product of the mines.

"The net smelter returns from ore shipments up to 1st of January, 1899, amount to about $700,000.00, out of which $400,000.00 was divided among the owners as profits. The property is equipped with a 125 ton Fraser and Chalmers Concentrator located on the Nakusp and Slocan Railway, one mile below Three Forks. A splendid waggon road six miles long, with a max. grade of 12 per cent. and a min. grade of 8 per cent. connects the mine with the mill. Part of this road is out of use now, for since it was built, we have constructed a three rail surface tram-way 6,300 ft. in length, from the mill towards the mine, and we intend this season to connect this tram-way with the mine by an aerial rope tram-way when we will be pretty thoroughly equipped. Our mill is run by water power.

OUTPUT FOR 1898.

	Gross value.	Duty.	Freight and Treatment.	Net Returns.
Concentrates 251.70 tons.	$26,314 12	$1,858 46	$6,219 38	$18,236 28
Crude ore... 4,017.69 tons.	238,729 84	18,014 07	66,357 93	154,357 84
Total ... 4,269.39 tons.	$265,043 96	$19,872 53	$72,577 31	$172,594 12

Average gross value Concentrates, per ton..... $104 55
Average net value Concentrates, per ton..... 72 45
Average gross value Crude Ore, per ton 59 42
Average net value Crude Ore, per ton 38 42

IDAHO MINES—Continued.

The value in our ore is in the silver and lead. The figures marked under duty represents the amount paid the United States Government on lead contents.

Six of our claims have been Crown granted; eight have been surveyed and Crown grants applied for; the other seven are now being surveyed. It is quite probable that this property will be incorporated into a company soon and shares issued to the owners in proportion to their respective holdings."

IDLER MINING COMPANY, Limited.

Registered in British Columbia, 5th February, 1897, and incorporated under the Laws of the State of Washington. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

Gen. A. P. Curry, President.
J. C. Miller, Treasurer and Manager. H. C. Browne, Secretary.

Directors:

Gen. A. P. Curry. C. Liftchild. H. C. Browne. Gen. C. S. Warren.
R. S. Coe. E. T. Steel. J. C. Miller.

Head Office: Spokane, Wash.

CANADIAN OFFICE:
Three Forks, B.C.

Owns the Idler mineral claim, situated ¾ of a mile north of Three Forks, Slocan Mining District, British Columbia.

IMPERIAL GOLD MINING COMPANY, Limited.

Incorporated 15th June, 1896. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Directors:

J. K. Clark, Rossland. | A. W. Wright, Rossland.
G. H. Bayne, Rossland. | C. L. Arnold, Nelson.
F. M. McLeod, Rossland.

Head Office: Rossland, B.C.

Owns the Imperial Fraction and Boyce mineral claims, situated on the south east slope of Lookout Mountain, four miles east of Rossland, British Columbia.

IMPERIAL OIL COMPANY, Limited

Incorporated May, 1880, with an Authorized Capital, $50,000, in shares of $100; reorganized 1898, with a paid up capital of $1,000,000, Supplementary Letters Patent having been issued 13th December.

Head Office: Petrolia, Ont.

Probably the most important oil refining company in Canada.

ESTIMATED OUTPUT AT 1ST JUNE, 1899.

Illuminating oils	12,040,000	gallons.
Benzene and Gasoline	1,680,000	"
Paraffine, nutral, wool and leather oils	2,100,000	"
Lubricating oils, Petroleum, Tar, &c	2,520,000	"
Gas and fuel oils	7,000,000	"
Paraffine wax and candles	4,000,000	Lbs.

INCORPORATED EXPLORATION CO. OF BRITISH COLUMBIA, Limited.

Registered in England, 11th December, 1897. Authorized Capital £200,000, in 200,000 shares of £1 each: 160,220 shares have been issued, 140,000 (vendors') being credited as fully paid, and 20,220 having 7s. 6d. per share called up. In December, 1897, 133,334 shares were offered for subscription by the British Columbia Development Association, Limited.

Directors:

Lieut.-General Sir J. Bevan Edwards.
B. Byron Johnson. | St. Clair K. M. Stobart.
C. Goddard Clark, J.P. | Lieut.-Col. Duncan Campbell, J.P.
William Thompson, J.P., M.I.C.E., Managing Director.

Head Office: W. G. F. Child, Secretary, 58 New Broad St., London, E.C.

Canadian Office: John Hopp, Manager, Slough Creek, Stanley, B.C.

This company has been formed and promoted by the British Columbia Development Association, Limited, to acquire the mining properties of that Association, as well as those of the Slough Creek mining property. The properties are on Williams Creek and on Slough Creek and Willow River, Cariboo District, B.C., and comprise 11 miles of auriferous gravels and two contiguous leases on Willow River, comprising about 1¾ miles of auriferous gravels. The purchase price of the property has been fixed by the vendor

INCORPORATED EXPLORATION CO.—Continued.

Association, at £145,000, payable as to £5,000 in cash, and the balance in fully paid shares, thus leaving £55,000 available for working capital.

During 1898, in order to determine, with all possible accuracy, the depth and location of the old channel of Slough Creek, before sinking shafts and running tunnels to it, additional boring was done with hydraulic jetting machines, and the depth as determined by former borings, verified.

The management has decided to sink a three-compartment working shaft through the rim-rock upon the Island Mountain side of the property, opposite the mouth of Nelson Creek, and when it has reached the required depth, a bed-rock tunnel will be run from the shaft to intercept the old channel. The necessary machinery for sinking the shaft and running the tunnel, consisting of air compressors, drilling machines, pumps, hoisting engines, additional boilers, etc., has been provided for and will be installed as soon as reguired.

INDIAN CHIEF GOLD MINING AND DEVELOPMENT CO. OF ONTARIO, Limited.

Incorporated April 14th, 1897. Authorized Capital, $1,000,000, in shares of $1.00 each.

Directors:

J. F. Howard, Winnipeg, Man. | W. D. Macdougall, Winnipeg, Man.
Dr. A. H. Simpson, Winnipeg, Man. | N. P. Wheeler, Montreal, Que.
A. McKim, Montreal, Que.

Formed to carry on in all its branches the business of a mining, milling, reduction and development company.

INDIAN CHIEF GOLD MINING CO., Limited

Incorporated March, 1897. Authorized Capital, $1,000,000, in shares of $1 00 each.

Directors:

Thos. Hulme. A. F. Corbin. J. A. Kirk.

Head Office: Rossland, B.C.

Formed to purchase the Indian Chief, Pappoose and Big Boy mineral claims, all situate on the north-east side of Lower Arrow Lake, about four miles south of Deer Park Townsite, in the Nelson Mining Division of West Kootenay District, in the Province of British Columbia.

INDUSTRIAL MINING, DEVELOPMENT AND INVESTMENT CO. OF TORONTO, Limited.

Incorporated March 17th, 1897. Authorized Capital, $250,000, in shares of $1.00 each.

Directors :

J. K. Kerr, Toronto, Ont.
B. J. Townsend, Toronto, Ont.
H. Blake, Toronto, Ont.
A. J. Truss, Toronto, Ont.
A. B. Whitehead, Toronto, Ont.
W. C. Skelding, Toronto, Ont.
A. Ardagh, Toronto, Ont.
N. M. Whitehead, Toronto, Ont
D. Campbell, Toronto, Ont.
E. G. C. Sinclair, Toronto, Ont.
J. E. Askwith, Ottawa, Ont.

Head Office : 90 Yonge St., Toronto, Ont.

Formed to carry on in all its branches the business of a mining, milling, reduction and development company.

INTERCOLONIAL COAL MINING CO., Limited.

Incorporated 1867 by Act of the Legislature of Nova Scotia.

Capital.	Authorized.	Issued.
Common stock	$500,000	$500,000.
Preferred stock	250,000	219,700.
First mortgage bonds	250,000	250,000.

Directors :

James P. Cleghorn, President.

Charles Fergie.
Hartland S. Macdougall.
W. M. Ramsay.
A. W. Hooper.
G. Goff Penny.
W. J. Nelson.
Thomas Wilson.
R. McD. Paterson.

Head Office : Wm. J. Nelson, Secretary, 199 Commissioner St., Montreal.

Mines Office : Chas. Fergie, M.E., Westville, N.S.

This company's property contains 2¾ square miles of coal areas, upon which is the Drummond colliery at Westville, in the County of Pictou, Nova Scotia.

The main and second seams are worked, the third and fourth being intact. The second seam is only in process of being opened up, and the following notes refer to the main seam alone, which is worked by slopes, size 12 x 8 ft., having an average dip of 16 degrees, and are 5000 ft. long ; the fan shaft is situated to the south of these slopes at a vertical depth of 70 ft.,

INTERCOLONIAL COAL CO.– Continued.

and is 10 x 8 ft. The coal is good for steam and household purposes and makes excellent coke. The No. 1 slope is used exclusively for hoisting coal, the No. 2 for lowering and raising men, also for dropping down timbers, materials, etc.

Mode of working.—The seam is worked on the bord and pillar system; each lift is 450 ft.; the levels are S.E. and N.W. 20 degrees; the dip is 24 degrees on the north and 19 degrees on the south side; counter-balance planes are driven every 450 to 500 ft.; the bords are 10 ft. wide by 9 ft. high on the south, and 10 ft. wide by 7 ft. 6 in. high on the north side; heads are driven 100 ft. apart 6 x 6 ft.; the pillars average 80 x 40 ft. The main levels of every lift are driven out to the extreme boundary before the work of opening out by-bords is commenced. The coal is then worked back towards the slopes. No explosive is used, the coal being worked by maul and wedge.

Employees.—The average number of persons employed is: Underground cutters, 176; loaders, 34; on cost, 90; boys, 50; total, 350. Surface, 118 men and boys. Total, underground and surface, 468. The average daily output is 1,000 tons in summer and 600 tons during winter months when working.

Lamps.—To further increase the already many precautions taken with safety lamps, and principally protect them in very high currents, a new small air compressor has been erected in the lamp room; to this compressor a ½in. pipe is connected, arranged so that by opening a foot valve the glass and joints are subjected to a pressure of 30 lbs. per square inch. In the case of any defect the lamp is immediately extinguished. The same compressor also supplies air for cleansing the gauzes of dust.

Ventilation.—The ventilation of the mine is produced by a Walker "Indestructible" fan, of the Guibal type. It is 18 ft. dia. by 6 ft., driven by six cotton ropes, and geared 2 to 1. Engines for driving the fan are of the compound expansive cut-off type. High pressure cylinder, 17 in. dia.; low pressure cylinder 27 in. dia. The engines are constructed to work independently of each other if necessary.

There is also an alternative fan of the Guibal type, built by G. W. Snider, Pottsville, Pa., and erected July 8th, 1875. It is 20 x 7 ft. wide, driven direct by an engine 16 x 24 in. The engine and fan running at 45 revolutions per minute produce 100,000 cubic ft. of air per minute.

A steam jet is also provided, in case of accident, and is capable of producing 25,000 cubic ft. per minute.

Winding.—The winding and hauling engines are set back in a direct line with the slopes. No. 1 winding engine has two horizontal cylinders, 28 x 60 in. stroke; balanced piston valves; pair of plain drums 10 ft. dia. by 3

INTERCOLONIAL COAL CO.—Continued.

ft. 6 in. wide, with independent action. The Lane friction gear is used; hauls 16 boxes, each containing 1,344 lbs. of coal.

No. 2 winding engines are a pair of 16 x 36 in. V friction, geared 2 to 1; drums 8 ft. diameter; work singly or connected. The rope used is ⅞ in. of crucible steel.

Hauling ropes.—These are of plough steel 1⅛ in. dia., Latch & Batchelor's patent flattened strand.

Boxes.—These are of wood, size 4 ft. 2 in. x 2 ft. 2 in. wide x 2 ft. 6 in. deep. The wheels are steel, 12 in. dia., fast to the axle, which is 1⅝ in. dia., and also steel; the bearings are inside; the gauge is 2 ft. 8½ in.; 500 boxes are used in and about the mine, and the greasing is done on the surface.

Boilers—There are three egg-end steel boilers, each 30 ft. x 3 ft. 6 in.; the working pressure is 80 lbs.; two Cornish steel boilers, 30 ft. x 5 ft. 6 in., flues 1 ft. 10 in. dia., working in conjunction with two "Heine" boilers of 200 h.p. each; the working pressure of these is 100 lbs.; the boilers in connection with the Walker fan engines and air compressors are of the Stirling water tube type of 300 h.p., and are built for a working pressure of 150 lbs.

Pumping.—One steam pump (No. 1) is employed under ground, placed at the bottom of the fan shaft and is a "Knowles" direct-acting compound plunger, pump cylinders 8 in. and 14 in., plunger 6 in., stroke 24 in.; independent condenser; vertical lift 347 ft.; columns 10 in. cast iron. The other pumps are all driven by compressed air and are as follows:—No. 2 is a Northey compound duplex plunger pump, cylinders 8 x 16 in. x 18 in., plungers 4½ in. No. 3 and 4 are the Halsey pneumatic pumps with a capacity of 4,000 gallons each per hour. No. 5 is a "Northey" improved steam pump, cylinder 14 in., plunger 5 in., stroke 12 in.; vertical lift 150 ft.; column 4 in. cast iron.

A compound air compressor, 14 in. by 22 in., made by the Rand Drill Co., supplies air to the underground pumps.

Coke ovens.—There are twenty bee-hive ovens, each 12 ft. dia. by 6 ft. high; a charge consists of 5 tons of washed coal, and which has passed over a half-inch square mesh screen; ovens are drawn every 60 to 70 hours; the average yield of coke is three tons per oven per charge. A Sheppard deadweight crusher reduces the coal to the required size. The coal is washed by a "Robinson" coal washer, capable of washing 100 tons in 10 hours.

Lighting.—All workshops, engine houses and bankhead are lighted by the incandescent electric light. No open lights are allowed in any part of the mine, the lamps used are of the Marsaut type.

Screens.—Two shaker screens receive all the coal produced. The screens are fed by revolving tipples which deposit the coal gently on the screen, which is delivered on to a picking belt 40 ft. long by 4 ft. wide, to allow of the thorough picking and cleaning of the coal.

INTERCOLONIAL COAL CO.—Continued.

Workshops.—These consist of a carpenters', blacksmiths', car, machine shops and sawmill. The machine shops contain lathes, drilling and screwing machines. The sawmill contains travelling rotary saw and cross-cut, drilling and notching machine for cutting grooves in edge-rail sleepers. This machine will cut and groove 60 sleepers per hour. When formerly cut by hand they were turned out at the rate of 10 per hour per man.

Shipping wharf—This is situated at Granton on the Middle River, 7 miles north of the mines, with which it is connected by a line of railway owned and operated by the company. Steamers of 3,000 tonnage and over load here. Two locomotives and some 200 hopper cars are employed during the shipping season.

COAL DISPOSALS.

SOLD TO.	1892.			1893.		
	Round.	Slack.	Total.	Round.	Slack.	Total.
Nova Scotia	39,367	37,744	77,111	53,613	47,038	100,651
New Brunswick	5,388	2,701	8,089	2,912	653	3,565
Prince Edward Island	2,213	3,654	5,867	8,812	7,133	15,945
Quebec	83,439	9,073	92,512	79,794	6,101	85,895
Ontario	.....	.....	.....	23	10	33
Newfoundland	.....	.....	.....	880	.....	880
Coke Ovens	38	2,312	2,350	143	987	1,130
Colliery employees	2,854	62	2,916	3,402	18	3,420
Colliery engines	3,540	5,263	8,803	8,111	2,755	10,866
Totals	136,839	60,809	197,648	157,690	64,695	222,385

COAL DISPOSALS—Continued.

SOLD TO.	1894.			1895.		
	Round.	Slack.	Total.	Round.	Slack.	Total.
Nova Scotia	57,043	43,465	100,508	52,219	39,865	92,084
New Brunswick	6,995	245	7,240	3,886	312	4,198
Prince Edward Island	8,480	6,859	15,339	10,270	6,046	16,316
Quebec	73,193	7,494	80,687	70,086	5,548	75,634
United States	2,050	1,009	3,059	.....	.....	.....
West Indies	1,052	.....	1,052	313	.....	313
South America	536	.....	536	.....	.....	.....
Colliery employees & local	4,503	370	4,873	4,140	75	4,215
Colliery engines	2,152	9,297	11,449	3,011	8,473	11,484
Totals	156,004	68,739	224,743	143,925	60,319	204,244

INTERCOLONIAL COAL CO.—Continued.

COAL DISPOSALS—Continued.

SOLD TO	1896.	1897.		
		Round.	Slack.	Total.
Nova Scotia	109,151	53,575	40,555	94,130
New Brunswick	1,903	13,150	201	13,351
Prince Edward Island	15,832	9,143	6,798	15,941
Quebec	39,801	51,408	6,670	58,078
United States	.....	204	.....	204
Colliery Employees and local	3,976	3,791	262	4,053
Colliery engines	9,747	1,198	8,330	9,528
Coke making	.....	11	2,100	2,111
Totals	180,410	132,480	64,916	197,396

COAL DISPOSALS—Continued.

SOLD TO.	1898.		
	Round.	Slack.	Total.
Nova Scotia	473.09	75.07	548.16
New Brunswick	48,931.14	34,840.07	83,772.01
Prince Edward Island	4,037.01	1,375.10	5,412.11
Quebec	4,314.10	4,151	8,465.10
Ontario	56,562.05	32,591	89,153.05
Newfoundland	101.09	.....	101.09
Coke Ovens	.....	.....	.....
Colliery employees	73.10	7,027	7,100.10
Colliery engines	3,515.03	8.05	3,523.08
	4,110.19	8,002.11	12,113.10
Totals	122,120	88,071	210,191

COKE MADE.

1896	2,708	tons.
1897	977	"
1898	3,541 16/20	"

INTERNATIONAL DEVELOPMENT CORPORATION (BRITISH COLUMBIA) Limited.

This company was registered on the 13th August, 1896, to explore, examine and test properties in British Columbia or elsewhere, and to carry on mining operations. The Authorized Capital is £300,000, in 300,000 shares of £1 each: 12 shares have been issued.

Office: 31 Lombard St., London, E.C.

INTERNATIONAL GOLD AND SILVER MINING CO.

Incorporated under the Laws of the State of Washington. Authorized Capital, $500,000, in shares of $1.00.

Officers:

W. W. Chapman, President.
H. M. Goodhue, Vice-President.
R. Flormann, General Manager and Treasurer.
W. W. Davy, Secretary.

Head Office: Boundary, Stevens Co., Wash.

Registered Office: Rossland, B.C.

The company is the owner of eight full quartz claims, viz.: the Black Hills and Bristol in British Columbia, the Edith Ellis, Hallie J., Emma, Jessie, Marian Davies and Bonanza. These claims are known as the Edith Ellis group, and are situated in the United States, about nine miles from Rossland and the famous Trail Creek mines, and abont three miles from Boundary, Washington, on the Spokane Falls and Northern Railway. Active development work is now in progress on these properties. The company also owns 240 acres of placer ground on the Columbia River, adjoining the boundary line, and 320 acres of placer ground at junction of Pend O'reille and Columbia River, in British Columbia; the grounds are adjoining, being divided only by the International boundary. It also owns and controls a sufficient water right for working these grounds, and has built a ditch and flume at an expense of $1,200.00.

INTERNATIONAL MINING DEVELOPMENT CO., Limited.

Incorporated under Dominion Statutes, 7th January, 1898. Authorized Capital, $100,000, in shares of a par value of $1.00.

Directors:

Hon. George A. Cox,	Toronto.	James J. Kenny,	Toronto.
Wm. Christie,	"	James Carruthers,	"
Alexander Manning	"	John L. Spink,	"
Hugh N. Baird,	"	Hedley Shaw,	"
Chas. B. Watts,	"	Benson J. Townsend,	"
George Ritchie	"	J. B. Henderson,	Paris, Ont.

Head Office: Toronto.

Formed to search for, prospect, examine and explore mines and ground supposed to contain precious metals and other minerals, etc.

IOWA MINING AND MILLING CO., Limited.

Registered in British Columbia, 15th April, 1897. Authorized Capital, $650,000, in shares of $1.00.

Officers:

Horace E. Merkell, President.
O. R. Williams, Vice-President. J. C. Brogan, Treasurer.
A. G. McBride, Secretary.

Head Office: J. C. Brogan, Occidental Block, Seattle, Wash.

Registered Office: Rossland, B.C.

Owns the Iowa and Mercury mineral claims, located on Green Mountain, 5 miles north of Rossland, British Columbia.

INVICTA GOLD MINES, Limited.

Registered 1896. Authorized Capital, £100,000, in shares of £1; 95,607 shares have been issued and are fully paid; 85,000 (vendor's) being issued credited as fully paid. The first accounts, made up to the 31st October, 1896, and submitted on the 21st December, 1896, showed a balance of £2,809 16s. 10d. to debit of expenditure account, after deducting £1,204 14s. gold sales and other receipts; cash balances £1,108 7s. 8d.; gold in transit £905 12s. 4d.; calls in arrears £1,212 10s. Later report not received.

INVICTA GOLD MINES—Continued.

Directors:

Edward Rawlings, Chairman.
J. W. Harker. R. Pearce. A. E. Walton.

Head Office: F. J. Warner, Secretary, 25 Abchurch Lane, London, E.C.

Mines Office: J. W. R. Young, Manager, Wild Horse Creek, Fort Steele District, B.C.

This company has acquired and commenced working upon the following gold mining claims, viz.: Ah Chow, Jerome Stanley Evans, Schroder, Fun Yei, Ah Yow, Wing Kei, Goo Quong, San Qui, Perseverence and Griffiths, together with extensive water rights, situated on the Wild Horse Creek, British Columbia, and held direct from the Government of that Province.

In the Report of the Minister of Mines for B.C., 1896, we are informed that the installation of a plant for the hydraulicing of the large bank of gravel had begun, but as there had been a long delay in the transportation of piping, monitors, etc., but little washing could be attempted during the season, although about 70,000 cubic yards were moved, that yielded, according to the annual report of this company, 7 cents per yard.

The bank is now about 5,000 feet long, and washed back 6 to 800 feet from the creek by former holders of small claims, and now stands nearly vertical, showing several more or less uniform strata dipping easily towards the creek, of which the (*a.*) upper stratum of 50 feet to 60 of top dirt carries no value; (*b.*) the next stratum or "red-dirt" is about 20 to 25 feet thick, and so far has proved to be most profitable; (*c.*) the blue-dirt stratum, 35 feet thick in places, is so solid that it has to be broken up by dynamite before hydraulicing; (*d.*) the alternate layers of clay and conglomerate of considerable depth, are to be tested for their values, and these lie on the bedrock of highly tilted chloritic slates. A large amount of dirt on the bedrock has not been tested, but two shafts are being sunk this winter for this purpose, which, if profitable, may have to be washed out by driving in a tunnel from an advantageous point down the creek, and then washing the dirt into sluices laid along this working.

There is a considerable number of rounded boulders too large for the sluices, that accumulate, and as yet no derricks have been supplied for their removal, in case the ground now underlying is washed out down to the gutter.

Dump.—A large amount of boulders collect at the outlet of the sluices, which are then extended out towards the stream as these pile up; the finer dirt collects more or less in the stream, but is all sluiced out by the yearly freshets.

INVICTA GOLD MINES—Continued.

Water.—Is supplied by two ditches on the north side of the creek, of which the "China" ditch, 3¾ miles long, supplies, when running full, 1,000 miners inches of water, and the "Victoria" ditch, 4½ miles long, 1,500 inches, the former supplying the water to the monitors in the pit, under a head of 250 feet, the latter of 350 feet. The water usually begins to rise about the middle of May, with a good head about June 1st, which lasts from 3 to 4 months and then begins to decrease rapidly, so that effective hydraulicing can only be done for about five months in favourable seasons.

Plant.—From the pressure boxes at the ditches, two pipe lines, 1,300 feet apart, consisting of steel pipe of 16 to 10 gauge and 22 to 12 inches in diameter, lead down into the pit where, when the water supply is full, one No. 4, one No. 3, and two No. 2 monitors are used. Water is also used by letting it cut down the bank by running over the edge.

Sluices.—There are two about 650 feet long each, 3 by 3 feet, with a grade of 8 inches to 16 feet. No mercury is used or under-currents, as there is claimed to be no fine gold, 95 per cent of the yield being saved in the upper 100 feet of boxes.

An electric light plant of 12,000 candle power is driven by a Pelton wheel, and serves to light all the workings and permit night working.

At the end of 1898 the company was preparing to erect an hydraulic elevator for removing the gravel from the lower levels of the bench, which is expected to be in working order in 1899. No washing was done in 1898.

IRISH PROPRIETORY OIL FIELDS OF GASPE, CANADA, Limited.

Registered 1896. Authorized Capital, £100,000, in shares of £1.

Directors :

George Carr Glynn. | John A. Walker, J.P.
Robert Lee, M.D. | James Foley.
C. B. K. Carpenter.

Head Office : Edward S. Elvey, Secretary, 13 Trinity St., Dublin.

Formed to acquire, carry on and develop certain mineral lands at Gaspe, in the Province of Quebec. A contract has been entered into for the purchase by the company of an area comprising 1,500 acres, and 500 acres of mining rights in perpetuity. The purchase price, as fixed by the London and Dublin Finance Corporation, Limited, who are the promoters and re-sold at a profit, was £66,000, payable as to £33,333 in fully paid ordinary shares, £2,500 in cash, and the balance in cash or shares, at the option of the directors.

IRON COLT GOLD MINING CO., Limited.

Incorporated 1896, under the Laws of British Columbia. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

President, W. A. Campbell, Rossland.
Vice-President, P. Burns, Rossland.
Secretary-Treasurer, John F. McCrae, Montreal.

Directors:

Wm. McKenzie, Ont. Geo. H. Campbell. John R. Reavis, Rossland.
W. A. Campbell. John F. McCrae. W. D. Smith, and
J. J. Moynahan.

Head Office: Rossland, B.C.

Owns and is developing the Iron Colt mineral claim, Trail Creek District, British Columbia. Development work consists of 1 shaft, 75 feet; No. 1 tunnel, 65 feet; No. 2 tunnel, which includes the right-of-way through the Alberta tunnel for 354 feet; making a total of 1,068 feet. There are four open cuts, from 10 to 30 feet long, and 5 to 10 feet deep. The drifts from No. 2 tunnel are 136 feet west, 27½ east, and No. 2, west 29 feet. Ore-body in No. 1, west drift, from 3 to 35 feet wide. Power is supplied by a 5-drill air compressor plant.

IRON HORSE GOLD-COPPER MINING CO., Limited.

Incorporated in British Columbia, 3rd October, 1898. Authorized Capital, $1,250,000, in shares of a par value of $1.00.

Head Office: Rossland, B.C.

Formed to purchase or acquire all the assets of the "Iron Horse Mining and Milling Company," and to purchase and acquire the interest or shares of any or all of the shareholders in the "Iron Horse Mining and Milling Company," and to issue paid up stock of the company, or stock of the company in part paid up or both therefor; and to adopt and carry into effect, with or without modification, certain agreements which have been already prepared and are expressed to be made between the "Iron Horse Mining and Milling Company," of the one part, and George E. Pfunder, of the same place, on behalf of the company, of the other part, and which agreements are to be signed immediately after the incorporation of the company, copies whereof have, for the purpose of identification, been subscribed by Albert Howard McNeill, Esquire, a solicitor of the Supreme Court.

IRON HORSE MINING AND MILLING CO.

Registered 10th August, 1895. Authorized Capital, $1,000,000.

Head Office : Spokane.

Canadian Office : Rossland, B.C.

Formed to carry on mining in British Columbia. Owns and operates the Iron Horse claim, located on the south slope of Monte Cristo Mountain, Trail District, Province of British Columbia. Development work consists of a double compartment shaft 4½ by 9 feet in the clear, and sunk perpendicularly to a depth of 50 feet. It is the intention of the management to sink to the 300-foot level, and a 7-drill air compressor has been installed for this purpose. A new shaft house has been erected, 30 by 60 feet, and a blacksmith shop and powder house; also a compressor building, 30 by 50 feet. About 24 men are on the pay roll.

IRON MASK GOLD MINING CO.

Incorporated August, 1895. Authorized Capital, $500,000, in shares of $1.00.

Officers :

Austin Corbin, President.
E. J. Roberts, Vice-President. H. M. Richards, Treasurer.
J. F. Herrick, Secretary and Managing Director.

Directors :

D. C. Corbin. | Austin Corbin. | E. J. Roberts.
H. M. Richards. | J. F. Herrick. | A. T. Herrick.

Head Office : J. F. Herrick, Secretary, Spokane, Wash.

Mines Office : J. F. Herrick, Managing Director, Rossland, B.C.

Owns and operates the Iron Mask mineral claim, comprising 11 acres in the Trail District, Province of British Columbia. Average size of vein worked, 6 feet; opened by shafts, 330 feet and 175 feet respectively, and one tunnel in at date 900 feet. Drifts, 1,500 feet; cross-cuts, 200 feet. Equipped with Rand drills and Rand 10-drill air compressor; hoisting engine having double cylinder, 9 x 12 in.; drum, 42 in.; Knowles pump and other plant, the power for which is supplied from the War Eagle mine, which it adjoins. 50 persons employed. Shipments in 1898, 3,370 tons. Net cash received from smelters, $72,600.

IVANHOE GOLD MINING CO., Limited.

Incorporated under the Laws of British Columbia. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Directors:

Edward N. Bouche, President.
J. S. Clute, Jr., Vice-President. | A. M. Whiteside, Secretary.
D. Campbell, Treasurer. | D. W. Higgins, M.P.P.
J. F. Travers.

Head Office: Rossland, B.C.

Mine Office: O. K. Mountain, Rosslaud, B.C.

Owns the Ivanhoe mineral claim, near Rossland, B.C.

JACKSON MINES, Limited.

Incorporated under the Laws of British Columbia, 25th February, 1897. Authorized Capltal, $1,000,000, in shares of a par value of $1.00.

Directors:

George Alexander, President and Manager.
Robert Jackson. Daniel J. Munn.

Head Office: P O. Box 122, Kaslo, B.C.

Mines Office: M. R. W. Rathborne, Mine Manager, Jackson Mines, Whitewater, B.C.

Formed to purchase the Northern Belle, Kootenay Star, Dublin Queen, Ophir and Moore Fraction mineral claims, situate on Jackson Creek, at the head of Jackson Basin, about twenty miles from the City of Kaslo, and about five miles from Whitewater Station on the Kaslo and Slocan Railway, in the Ainsworth Mining Division, Kootenay, B.C.

The claims were located in 1892 upon a discovery of croppings, whose trend is northwesterly, and development by means of tunnels has proved the existence of a large and valuable vein, whose strike is generally easterly and westerly, and whose dip is about 40 degrees to the south. The vein occurs along a line or zone of fracture, in what is known as the Slocan slates, and these slates, with bands of siliceous limestone and more or less shaley material, contain the principal and, so far, nearly all of the silver-lead deposits of the wonderfully rich Slocan Mining District.

The fractured zone mentioned has been, previous to its mineralization, partially occupied by, and may have been caused by a dyke of eruptive rock, now much altered, whose presence is a strong point in favour of the idea of the deepseated origin and permanency of the deposits. The vein which cuts the slates in their dip varies from 3 to 8 feet and more in width, and beside

JACKSON MINES—Continued.

inclusions of the very graphitic shaley country rock, affords as a gangue, quartz, spathic iron, calcite, and, especially, near the foot wall, large quantities of zinc blende. These minerals are all accompanied by argentiferous galena, and with it constitutes the ore. By far the greater part of the total galena is disseminated through the vein matter, but during the process of development, several chutes or lenses of shipping ore have been encountered. These have been and are now being mined and shipped, after being hand-sorted, and the smelter returns on about 500 tons of this sorted product show a metal tenure of about 65 ounces silver and 60 per cent. lead. The values vary slightly in different parts of the mine, but show, on the average, a little more than one ounce of silver to each per cent. of lead.

The crude and expensive method of winning ore temporarily adopted is also very inefficient, because of the great amount of waste or second-class resulting. This can only be avoided by the erection of a concentrating plant, and when such plant is in operation there will not only be very little waste, but the grade of the product will be increased to about 65 per cent. of lead with about 70 ounces silver, which at present market prices will afford a gross value of about $80 per ton.

Under the present ownership, development work has been proceeding steadily since June, 1896, and at the now existing stage shows about 2,500 feet of tunnels and 500 feet of upraises, winzes and cross-cuts. This work has been laid out with a view to permanent use, and in such manner as to secure a perfect natural ventilation in all parts.

The tunnels, five in number, cover a vertical distance of about 320 feet, or about 500 feet in the plane of the vein, and show three well-defined ore bodies, whose relations and manner of occurrence are such as to lead to the conclusion that they are each succeeded in depth by others of a like nature, and are connected with them by chutes or chimneys of relatively small transverse extent. Tunnels Nos. 1, 2 and 3 have passed through two of these bodies of ore, which in No. 2 have a combined length of about 250 feet, and from these has come most of the ore produced. No. 4 tunnel passes through the narrow chimneys mentioned, but has not yet been extended to where it should penetrate a re-enlargement of the principal ore bodies so far found. No. 5 tunnel is driven from near the level of the Jackson Creek, about 124 feet below No. 4, to prospect a very strong cropping at that point. This has served to show the vein to be from four to eight feet wide, and, in the direction of the tunnel, passes through about 90 feet of ore in the plane of the vein. In the other direction the ore passes for about thirty feet along a surface opening, and thence under and along the creek bed. This ore body is, therefore, known to be at least 150 feet long.

These workings are within a length along the vein of less than 800 feet, and are all on the Northern Bell claim. The other claims of the group have

JACKSON MINES—Continued.

not been prospected, but most encouraging and valuable croppings appear on each, thus proving the continuity of the main vein, and indicating the probable occurrence of others.

After accounting for the ore which has been shipped, we find that the upper workings have left in sight in the mine and on the dumps about 9,000 tons of concentrating material, which will yield about 2,000 tons of product. As to further ore supplies, there is every reason to believe that the extension of tunnels Nos. 3 and 4, by a total of about 300 feet, will place in sight fully 8,500 tons of material, which, at the ratio of concentration of 4 to 1, will afford 2,125 tons of concentrates; and by sinking a shaft to a depth of 200 feet on the creek showing, and driving to the extent of 400 feet therefrom, another 8,500 tons will be placed in sight, which at above ratio will yield 2,125 tons of product. The total of these figures (26,000 tons of ore and 6,250 tons of concentrates) certainly justifies the immediate construction of a concentrating plant, of a daily capacity of 75 tons. The development work indicated can be completed much before the mill can be constructed, and this ore can be treated in about one year from the date of completion of the mill. At the end of that time a profit of $125,000 will have been made.

Since the above report by Mr. S. S. Fowler, E.M., in 1897, a concentrating plant (water driven) having a capacity of 60 tons per 24 hours has been installed. The power is furnished by a Pelton wheel connected by a wire rope transmission of about 2,000 feet. 25 to 40 persons employed in 1898. During the first three months of 1899 the shipments exceeded 400 tons.

JEWEL DEVELOPMENT COMPANY, Limited.

Organized 1898, and Registered in British Columbia 19th October, 1898.
Authorized Capital, £6,000 in shares of a par value of £1.

Directors:

W. H. Tyser. Sir Bartle Frere, Bart. W. W. Slater.
Gilbert Mahon.

Head Office: J. A. Allen, Secretary, 18 Bishopsgate Street Within, London, E.C.

Canadian Office: Gilbert Mahon, Rossland, B.C.

This company is developing the Jewel mineral claim, Long Lake Camp, Kettle River Mining Division of British Columbia. At 31st December, 1898, was opened by a shaft down to a depth of 210 feet; 120 foot level driven 300 feet; upraise and winze 100 ft. A trial shipment of 8½ tons to Trail smelter yielded: Gold, 5·11 oz., and silver, 35·3 oz. Ore to be treated by direct cyanidation.

THE J. O. 41 GOLD MINING CO. OF RAINY RIVER, Limited.

Incorporated 1898. Authorized Capital, $500,000, in shares of $1.00 each.

Directors:

A. C. Hubbell, Manistique, Mich. | T. A. Merritt, Duluth, Minn.
J. H. Bennett, " " | J. C. Macdougall, " "
V. P. Chappel, " " | A. E. McManus, " "
G. Van Burgess, Duluth, Minn.

Head Office: Duluth, Minn.

Canadian Office: Mine Centre, Ont.

Formed to carry on in all its branches the operations of a mining, milling, reduction and development company.

JOHN BULL MINES, Limited.

Incorporated under the laws of British Columbia, 24th March, 1899. Authorized Capital, $150,000, in 1,500,000 shares of a par value of Ten cents.

Head Office: Rossland, B.C.

Formed to purchase the "John Bull" and "Marinette" Mineral Claims, situate on McRae Creek, Grand Forks Mining Division of West Kootenay District in the Province of British Columbia, and also to purchase, lease, bond, locate or otherwise acquire any mineral claims, mineral lands, mines, properties and any real estate in the Province of British Columbia or elsewhere, and to pay for the same either in money or fully paid up shares of the company, or partly in money and partly in such shares, and to sell, or lease, or otherwise dispose of the same, or any of them.

JOHN E. REDMOND MINING CO., Limited.

Capital, $1,000,000. Shares, $1.00 each.

Directors:

John E. Redmond, J. E. Gibson, M. Kuntz and R. Gibson, all of the town of Grand Forks, B.C.

Head Office: Grand Forks, B.C.

Formed to acquire the "Columbia," the "Iron King," and the "Kupper Queen" mineral claims, situated on the North Fork of Kettle River Mining Division, Yale District, British Columbia.

JOHNSON'S CO.

Incorporated 1885, under letters patent from the Local Legislature of Quebec. Capital, $250,000, in shares of $500 each, fully subscribed and paid up.

Directors :

John Mooney, Inverness, Que. | W. J. Johnston, Clapham, Que.
Samuel J. Johnson, Inverness, Que. | A. S. Johnson, Thetford, Que.

Head Office : A. S. Johnson, Managing Director, Thetford, Que.

Formed to acquire and work asbestos and other mineral lands in the Province of Quebec, particularly Lot 27, 6th Range of Thetford, and Lots 25 and 26 in the 10th Range of Ireland ; also Lots 25, 29, 30, in Range 3 of the Township of Coleraine, all in the County of Megantic.

Engine equipment includes steam drills, horizontal and upright boilers, pumps, single and double hoisting engines, and a complete crushing and separating plant.

JOHN SYKES MINING AND MILLING CO., Limited.

Incorporated 6th January, 1899. Authorized Capital, $499,999, in shares of $1.00 each.

Officers :

John Sykes, President.
John Shilton, Managing Director. W. H. Wallbridge, Secretary.

Directors :

John Sykes. John Shilton. H. Holdroyd. Alfred Sykes.

Head Office : 100 McKinnon Building, Toronto, Ont.

Mines Office : P. N. Nissen, Mine Manager, Dinorwic, Ont.

Owns and is developing a mineral property, known as S V 105, comprising 75 acres, and situated on Twin Lakes and Lake Minnie-Takie, Rainy River Mining District of Ontario. Opened by one shaft, down at date of report, 70 feet, but main workings are open cast. Equipped with 10-stamp battery and other plant.

JO JO GOLD MINING CO., Limited.

Incorporated under the Laws of British Columbia, 30th June, 1898. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

J. Fyfe, President.
W. H. Jackson, Vice-President. Geo. N. Taylor, Secretary-Treasurer.

Directors:

J. Fyfe, Rossland, B.C. | W. H. Jackson, Toronto, Ont.
Geo. N. Taylor, Rossland, B.C. | Edward Churchill, Otterville, Ont.
J. M. Miller, Rossland, B.C.

Head Office: Geo. N. Taylor, Secretary, P.O. Box 424, Rossland, B.C.

Owns and is developing the Dip and Jo Jo mineral claims, in the Trail Mining District, British Columbia.

JOSIE MACK GOLD MINING CO., Limited.

Incorporated under the Laws of the State of Washington, and Registered in British Columbia, 27th December, 1897. Authorized Capital, $600,000, in shares of a par value of $1.00.

Officers:

S. H. Friedman, President.
A. J. Ross, Vice-President. P. E. Fisher, Secretary.
S. T. Arthur, Treasurer.

Head Office: Spokane, Wash.

Canadian Office: Rossland, B.C.

Owns and is developing the Josie Mack claim, on the south slope of Deer Park Mountain, Trail Creek District, British Columbia.

JUMBO GOLD MINING CO., Limited.

Incorporated 7th May, 1896. Authorized Capital, $500,000.

Head Office: Spokane, Wash.

Mines Office: M. R. Galusha, Rossland, B.C.

JUMBO GOLD MINING CO.—Continued.

Owns and operates the Jumbo claim, comprising 21 acres, 2½ miles west of the Town of Rossland, Province of British Columbia. On this claim is a very prominent exposure of iron-stained, fine grained eruptive rock, with more or less decomposed sulphides, in which a shaft was sunk, showing some low-grade ore, and afterwards a tunnel was run in about 260 feet, with about 125 feet of cross-cuts. For 150 feet there was no ore; then the tunnel entered and continued for nearly 90 feet in a body of very low grade, coarse grained pyrrhotite, in which, however, there is ore containing some copper pyrites, mispickel and calcite, that carries enough value in gold to make it shipping ore.

KALADAR AND ANGLESEA MINING AND DEVELOPMENT CO. OF KINGSTON, Limited.

Incorporated 1898. Authorized Capital, $400,000, in shares of $1.00 each.

Directors:

A. F. Holmes,	Napanee, Ont.	W. T. Minnes,	Kingston, Ont.
J. R. Scott,	" "	G. A. McGowan,	" "
W. H. Perry,	" "	W. S. R. Murch,	" "
W. H. Boyle,	" "	John Breden	" "

Samuel Harkness, Kingston, Ont.

Formed to carry on in all its branches the operations of a mining, milling, reduction and development company.

KAMLOOPS COPPER MINING CO.

Incorporated November, 1897. Authorized Capital, $60,000.

Directors:

G. A. Kirk, Victoria, B.C.

Benjamin Wehrfritz.	Hon. D. W. Higgins.
C. W. Tolson.	John Park.

Head Office: A. T. Monteith, Sec.-Treas., Victoria, B.C.

Mines Office: John Park, Managing Director, Kamloops, B.C.

Owns and operates the Golden Star mineral claim, situated in the Kamloops Division of Yale District, British Columbia, on Coal Hill, a point about five miles south of the town of Kamloops. A small force is employed opening up the claim.

KAMLOOPS MINES (BRITISH COLUMBIA) Limited.

This company was registered by Baker & Higgs, 76a Chancery Lane, London, W.C., on the 24th March, 1898, to adopt an agreement with W. H. Cobbett, and to acquire mining leases in the Kootenay, British Columbia. The Authorized Capital is £120,000, in shares of £1.

KAMLOOPS - ROSSLAND GOLD FIELDS SYNDICATE, Limited.

This Syndicate was registered on the 24th August, 1897, to acquire mines in the Kamloops and Rossland Districts of British Columbia, or elsewhere. The Authorized Capital is £2,000, in 2,000 shares of £1.

KASLO-MONTEZUMA MINING AND MILLING CO., Limited.

Registered in British Columbia, 18th June, 1898. Authorized Capital, $1,250,000, divided into 1,250,000 shares of $1.00.

Officers:

Constantine Webb, President.
E. C. Hughes, Vice-President. M. McMicken, Secretary-Treasurer.
L. L. Patrick, Superintendent.

Head Office: M. McMicken, Sec.-Treas., Seattle Wash.

CANADIAN OFFICE:
Kaslo, B.C.

Owns and is developing four claims, comprising the Montzeuma, Mexico, Vera Cruz, and Buena Vista, located on Montezuma Creek, a branch of the South Fork of Kaslo Creek, eight miles from Kaslo, British Columbia. A 150-ton concentrator has been erected, which is supplied with water power from a flume about two miles long, on the north side of the South Fork of Kaslo River. The ore is fine steel galena. In previous years a quantity of ore was shipped, but during 1898 nothing but development work was carried on, though the ore encountered in this work was shipped out of the way. An air compressor is being completed and the work will, in future, be carried on by air power. First class buildings for the accommodation of the miners have been constructed, and the whole is lit by electricity.

KASLO-SLOCAN DEVELOPMENT CO., Limited.

Incorporated in British Columbia, 27th February, 1897. Authorized Capital, $1,000,000, in shares of $1.00.

Officers:

S. D. Landecker, President.
J. E. Harris, Vice-President. Chas. H. Evans, Secretary-Treasurer.

Head Office: Kaslo, B.C.

Owns and is developing the Copper Star Group of mineral claims, located on Harris Hill, Crawford Creek, White Grouse Mountains, Slocan District, British Columbia.

KELLEY CREEK GOLD MINING AND MILLING CO., Limited.

Incorporated in British Columbia, 12th November, 1896. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Directors:

Wm. Lount, Q.C., Toronto, President.
C. H. Waterous, Brantford, Vice-President.

John R. Barber, Georgetown, Ont.	C. S. Douglas, Vancouver, B.C.
H. J. Finkle, Woodstock, Ont.	W. Hanson Boorne, B.C.
J. H. McKeggie, Barrie, Ont.	F. McPhillips, Toronto.

Head Office: Frank McPhillips, Secretary, Toronto St., Toronto, Ont.

Owns and is developing three mineral claims, comprising 63 acres, located on Kelley Creek, Lillooet District, British Columbia. Equipped with 10 stamp battery and other plant.

KENNETH MINING AND DEVELOPMENT CO., Limited.

Incorporated in British Columbia, 1st March, 1897. Authorized Capital, $1,000,000, in shares of $1.00.

Officers:

Hon. T. Mayne Daly, President.
Robert Scott, Vice-President. Joseph D. Dabney, Secretary-Treasurer.
J. L. Parker, Consulting Engineer.

Head Office: Rossland, B.C.

Owns and is developing the Tamarac and other mineral claims, located between Wild Horse Creek and Salmon River, and about four miles from the town of Ymir, British Columbia.

KEOUGH GOLD AND COPPER MINING CO., Limited.

Registered in British Columbia, 25th November, 1896. Authorized Capital, $200,000, in shares of a par value of $1.00.

Head Office: Salt Lake City, Utah.

Registered Office: Grand Forks, B.C.

Formed to purchase the R. Bell, Aspen, Delamar and Remington mineral claims, Summit Camp, Kettle River Mining Division, Yale District, British Columbia. Being developed and equipped with a suitable mining plant at date of last report.

KETTLE RIVER MINING AND DEVELOPMENT CO. OF BRITISH COLUMBIA, Limited.

Incorporated in British Columbia, 6th April, 1897. Authorized Capital, $1,200,000, in shares of a par value of $1.00.

Officers:

C. A. Hagleberg, President.
Chester Lacey, Vice-President. D. D. Birks, Secretary.
Smith Curtis, Treasurer.

Mine Office: Grand Forks, B.C.

Registered Office: Rossland, B.C.

Owns and is developing the Christina mineral claim, on the North Fork of Kettle River, at a point about 13 miles north of Grand Forks, British Columbia.

KEYSTONE GOLD MINING CO., Limited.

Incorporated 13th April, 1897. Authorized Capital, $1,500,000, in shares of a par value of $1.00.

Officers:

Joseph R. Dabney, President.
Duncan McCormick, Vice-President. Gordon Kennedy, Sec.-Treasurer.

Head Office: Rossland, B.C.

Owns and is developing the Keystone, Blackstone, Gladstone and Yellowstone mineral claims, situated on Blueberry Creek, 6 miles west of Lower Arrow Lake, Trail Creek Mining District, British Columbia.

KIMBERLEY MINING AND MILLING CO., Limited.

Incorporated 23rd April, 1897. Authorized Capital, $1,000,000, in shares of $1 00.

Directors:

A. J. McClelland, President.
Capt. W. Grant, Vice-President. J. T. Bethune, Secretary-Treasurer.
Hon. E. Dewdney. Sir Charles Hibbert Tupper, M.P.
Hon. Fred. Peters, Q.C. M. McGregor.

Head Office J. T. Bethune, Secretary, Victoria, B.C.

Owns and is developing the Bunker Hill mineral claim, situated on the South Fork of Kaslo Creek, Ainsworth Mining Division, British Columbia.

KING BROTHERS.

Chas. King. James King. E. A. King.

Head Office: 15 Bell's Lane, Quebec, Que.

Mines Office: Thetford Mines, Que.

This company is one of the largest producers of crude asbestos in Canada, and is the owner of some 21,000 acres of mineral lands in the Townships of Thetford and Ireland. Thetford mines at Thetford Station on the line of the Quebec Central Railway; on an average about 200 persons employed. Engine equipment includes Rand compressor (7 drills), three Copeland and Bacon hoisting engines, steam pumps, cable derricks, etc.

KING MINING CO., Limited.

Re-incorporated and Registered in British Columbia, 20th September, 1898. Authorized Capital, $2,000,000, in shares of a par value of $1.00.

Registered Office: Rossland, B.C.

Formed to acquire and operate mineral claims situate in the Province of British Columbia, and particularly to buy the "Oro de Noro," in Summit Camp in Grand Forks Mining Division, and "Eastern King" and "Western King," in Trail Creek Mining Division; and to acquire, own, and use water, water rights, mill sites, mills, tramways, aerial cableways, machinery, offices and lands needed in or incident to the company's mineral claims, and the transportation and treatment of the ores therefrom, and from any other mineral claims or mines, and generally to do all things incident to the general business of mining and reducing, extracting and refining of ores; also to pay for mineral claims or property acquired by the allotment of shares in the company, and also to procure the licensing or registration of the company in any other Province or in any foreign country.

KING SOLOMON CONSOLIDATED MINING CO., Limited.

Incorporated under the laws of the State of Washington, and Registered in British Columbia, March, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

E. R. Wingate, Spokane, President and Manager.
P. Q. Rothrock, Spokane, Vice-President.
B. R. Ostrander, Spokane, Treasurer.
C. P. Parsons, Spokane, Secretary.

Directors:

E. R. Wingate, M.D. | J. Melvin Thomas.
P. Q. Rothrock. | B. R. Ostrander.
C. P. Thomas, M.D. | C. P. Parsons.
L. B. Luther.

Head Office: 915 Riverside Avenue, Spokane, Wash.

CANADIAN OFFICE:
Lem. B. Luther, Ainsworth, B.C.

Owns and is developing the King Solomon Group, comprising three mineral claims, at Ainsworth, West Kootenay Mining Division of British Columbia.

KINGSVILLE NATURAL GAS AND OIL CO.

Incorporated 30th October, 1890. Authorized Capital, $43,740, all subscribed and one-ninth paid up. Shares, $20 each.

Directors:

Dr. S. A. King, President.
Jas. Brown, Vice-President. | Ira Loop.
Curtis Green. | Dr. Allworth, Treasurer.

Head Office: Jas. W. King, Secretary, Kingsville, Ont.

This company was first known as the Kingsville Citizen's Natural Gas Oil Association. Four wells have been put down in the Village of Kingsville, Ont., the average depth being 1,035 feet. Writing under date of 2nd February, 1892, the secretary reports: "We are supplying the Village of Ruthven, a small place four miles east of us, and the line has been extended to the west, until at present we have upwards of ten miles of pipe line, with five reducing stations. The pipe lines vary from 1 to 4 inches. Our main high pressure line to Kingsville is 3 inches to the reducing station. After leaving the station the main low pressure line is 4 inches, from which dif-

KINGSVILLE NATURAL GAS AND OIL CO.– Continued.

ferent sized lines branch. In the Village of Ruthven we carry from 1 to 1½ pounds pressure. In Kingsville we carry from 1 to 2 pounds. We have about 350 cook stoves attached, 175 heating stoves, 25 house furnaces, besides open grates, lights, etc. Then in addition to this we supply gas to the woollen mill, grist mill, sash and door factories, turning factory, grain elevator, the Mettawas summer resort, fruit drying establishment, the churches, halls, lodge rooms and many other places. It also furnishes fuel for burning lime, the stone for which is brought here from Pelee Island." Reporting on 13th January, 1896, the secretary writes: "We have added to our list of consumers about 50 stoves, the South Essex preserving factory, a basket factory and a foundry. The supply at date is entirely taken from one well, which has been in use for over five years, and the pressure shows no sign of diminution, notwithstanding there are two 8 inch lines taking gas out of the field supplying Walkerville, Windsor and Detroit." Writing under date 28th June, 1898, the secretary says: "The supply of gas is as great as ever, in fact one of the strongest wells in the field was drilled last week "

KINTYRE MINING AND SMELTING CO., Limited.

Incorporated 23rd March, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Directors:

Capt. Alvin Neal, President.
Colin McLachlan, John L. Black. J. W. Heisner. E. W. Lilegram.
T. Parker. John S. Clute, jr.

Head Office: John L. Black, Secretary, Port Huron, Ont.

Owns the Fandango, Maggie Extension and Flying Dutchman mineral claims, located in the Rossland District, British Columbia.

KLONDIKE & YUKON MINING CORPORATION, Limited.

Offices: 80 Lombard Street, London, E.C.

Registered 15th October, 1897, to adopt an agreement dated 27th August, 1897, made with P. R. Grey, and to acquire gold and other mines and lands in the Klondike and Stewart Districts, Canada, or elsewhere. The Authorized Capital is £10,000, in 9,000 ordinary shares of £1 each, and 1,000 adventurer's shares of £1 each.

KLONDIKE CHAMPS D'OR SYNDICATE, Limited.

Directors:

W. G. White, Chairman.
Reginald Price. H. E. Chagniath.

Offices: F. A. Pugh, Secretary, 3 Broad St. Buildings, Broad St., London, E.C.

Registered 6th December, 1897, to acquire and deal with mining properties. Authorized Capital, £2,000, in 2,000 shares of £1 each, of which 500 are founder's shares.

KLONDIKE (DEADWOOD CREEK) SYNDICATE, Limited.

Offices: 15 George St., Mansion House, London, E.C.

This Syndicate was registered on the 28th March, 1898, to adopt agreements with J. R. Giolma and E. B. Bushnell, and to acquire any lands, mines, alluvial or other deposits, &c. The Authorized Capital is £10,000, in 10,000 shares of £1 each.

KLONDIKE GOLD FIELDS, Limited.

Registered 22nd July, 1897. Authorized Capital, £350,000, in 350,000 shares of £1. In April, 1898, 200,000 shares were offered for public subscription by the New Gold Fields of British Columbia, Limited, and the Klondyke Mining, Trading and Transportation Company, Limited.

Directors:

Hon. Richard C. Grosvenor, Chairman.
Sir C. M. Kennedy, C.B. John Lowles, M.P. F. E. Harman, F.G.S.
Horace E. Billing. Hon. F. S. A. Hanbury-Tracey.

Head Office: W. A. Stearns, 23 Leadenhall St., London, E.C.

Formed to acquire and deal with lands and mines in British Columbia, or elsewhere.

KLONDIKE GOLD REEFS EXPLORATION CO., Limited.

Registered 3rd September, 1897. Authorized Capital, £100,000, in 95,000 ordinary shares of £1, and 5,000 founder's shares of £1 each: 12,730 ordinary, and 4,182 founder's shares have been issued and are fully paid.

Directors:

J. H. Hazelton-Black, Chairman.
Capt. A. Hastings Neale. Wm. A. Phillips. Walter E. Dowlen, M.E.

Canadian Board:

S. W. Templeman. Dr. J. W. Powell. Major John Wilson.

Head Office: W. W. Kelsey, Secretary, 34 Gresham St., London, E.C.

CANADIAN OFFICE:
Sydney Booth, Government St., Victoria, B.C.

Formed to carry on the business of a development and financial company. By an agreement dated 23rd August, 1897, W. Kelsey, the promoter, was given the right to subscribe at par for the whole or any portion of the unissued capital of the company for a period of two years from date of allotment (6th Sept., 1897).

KLONDYKE AND COLUMBIAN GOLD FIELDS, Limited.

Registered 5th August, 1897. Authorized Capital, £100,000, in 95,000 ordinary shares of £1 each, and 5,000 deferred shares of £1 each.

Directors:

J. Morris Catton, Chairman. H. Chester Master. J. De Lara Cohen.
Alfred Tiano. Col. A. Burton-Brown.

Canadian Board:

Hon. J. H. Turner. Hon. C. E. Pooley, Q.C. Joseph Boscowitz.

Head Office: Charles Flack, Secretary, 64 Victoria St., London, S.W.

Formed to acquire and deal in mining properties in the Yukon and British Columbia. By an agreement dated 3rd August, 1897, Charles Frederick Flack was to receive the whole of the deferred shares as fully paid, in consideration for which he agreed to pay all preliminary expenses.

KLONDYKE AND KOOTENAY VENTURE SYNDICATE, Limited.

Licensed in British Columbia, 10th October, 1898. Authorized Capital, £80,000, in 80,000 shares of £1 each.

Canadian Office: Thos. R. Lane, 536 Hastings St., Vancouver, B.C.

Formed to acquire mines, mining rights and auriferous land in British Columbia.

KLONDYKE AND N. W. TERRITORIES EXPLORATION CO., Limited.

Registered 29th July, 1897. Authorized Capital, £60,000, in 120,000 shares of 10s. each; 80,007 shares (£40,003 10s.) have been issued and are fully paid.

Directors:

Charles J. Roberts, Chairman.
R. Terrot. Charles Bradley. George King.

Head Office: F. G. Stevenson, Secretary, 57-58 Broad Street Avenue, London, E.C.

Formed to carry on in British Columbia or elsewhere the business of an exploration, mining and finance company. The company has acquired from the Properties Acquisition Syndicate, Limited, four claims of 52 acres each, situate 15 miles from Hot Springs, Yale, British Columbia. The purchase consideration was £40,000, payable £5,000 in cash, and £35,000 in 70,000 fully paid shares.

KLONDYKE BONANZA, Limited.

Registered 24th December, 1897. Authorized Capital, £150,000, in 150,000 shares of £1; in January, 1898, 114,000 shares were offered for public subscriptic .

Directors:

Lieut.-Col. W. H. MacGeorge, Chairman.
Lord Charles Pratt. C. L. H. Hughes. Walter Illingworth.
Louis Zimmerman. Arthur Fell.

Head Office: Percy H. Sainsbury, Secretary, Worcester House, Walbrook, London, E.C.

KLONDYKE BONANZA—Continued.

Formed to purchase 10 mining claims, 7½ situate on Bonanza Creek, about three miles from Dawson City, and 2½ on Last Chance Creek, about a mile above the junction with Hunker Creek. The purchase consideration was £100,000, payable £20,000 in cash and £80,000 partly in cash and partly in shares.

KLONDYKE CASSIAR MINERS AND TRADERS, Limited.

Registered 25th February, 1898. Authorized Capital, £125,000, in 125,000 shares of £1 each; in February, 1898, 92,000 shares were offered for public subscription.

Directors:

R. A. Barker, F.G.S. A. H. Barnard. Thos. Guthrie Fraser.
Lieut.-Col. N. Langford Pearse. W. P. Ward.

Head Office: E. B. Robbins, Secretary, 225-6 Winchester House, London, E.C.

CANADIAN OFFICE:
J. Minty, Manager, Dawson, N. W. T.

Formed to acquire three claims numbered 36, 37, 39, situated on Boulder Creek, about 20 miles from Dawson City, N.W.T. The purchase consideration was £60,000, payable £27,000 in cash and £33,000 in fully paid shares.

KLONDYKE CONTRACT SYNDICATE, Limited.

Offices: Winchester House, Old Broad St., London, E.C.

This syndicate was registered on the 14th January, 1898, to adopt an agreement dated January 12th, 1898, between P. Galvin of the one part and Morison & Marshall, Limited, of the other part, to acquire certain mining claims, properties and interests therein described. The authorized Capital is £18,000 in 18,000 shares of £1.

KLONDYKE EXPLORATION CO., Limited.

This company was registered on the 27th July, 1897, by H. D. Kimber & Company, 79 Lombard Street, London, E.C., to carry on the business of an exploration company. The authorized Capital is £2,000 in shares of £1.

KLONDYKE GOVERNMENT CONCESSIONS, Limited.

Directors:

R. Anderson. J. B. Richard.

Head Office: Winchester House, Old Broad Street, London, E.C.

This company was registered on the 30th March, 1898, to adopt an agreement with the Hunker Syndicate, Limited, and to carry on the business of miners, explorers, prospectors, traders, &c. The Authorized Capital is £500,000, in 500,000 shares of £1 each.

KLONDYKE HYDRAULIC, Limited.

Head Office: E. A. Foster, Secretary, 9 Great St. Helens, London, E.C.

This company was registered on the 9th February, 1898, to acquire and work three placer claims of 20 acres each, located on Bonanza Creek, Yukon, N.W.T., and named Willow No. I, II, III, respectively. The purchase consideration was £256,000, payable £6,000 in cash, and £250,000 in fully paid ordinary shares. The Authorized Capital is £310,000, in 60,000 preference shares of £1 each, and 250,000 ordinary shares of £1.

KLONDYKE, Limited.

This company was registered on the 27th July, 1897, by Kimber & Co., 79 Lombard Street, London, E.C., to acquire mines and land in British Columbia, or elsewhere. The Authorized Capital is £2,000, in 2,000 shares of £1.

KLONDYKE MINING AND PROMOTION CO., Limited.

Head Office: George Fowler, Secretary, 4 Featherstone Buildings, London, W.C.

Registered 30th March, 1898, to send out to the Yukon an expedition to secure mining properties. The Authorized Capital is £11,000, in shares of £1.

KLONDYKE MINING, TRADING AND TRANSPORT CORPORATION, Limited.

Head Office : W. A. Stearns, Secretary, 23 Leadenhall Street, London, E.C.

Registered 28th July, 1897, to carry on exploration, mining, banking, trading and transport operations, in the Yukon Territory. By an agreement dated 27th July, 1897, between George Arthur Strickland and Gustavus William Basford, as trustee for the company, certain mining claims and interests were acquired. The company works in conjunction with the New Gold Fields of British Columbia, Limited. The Authorized Capital is £250,000, in shares of £1 ; 71,045 shares have been issued and are fully paid. In July, 1897, 200,000 shares were offered for public subscription by the New Gold Fields of British Columbia, Limited.

KLONDYKE PARENT PIONEER CORPORATION, Limited.

Head Office: J. F. Taylor, Secretary, Moorgate Station Chambers, London, E.C.

This company was registered on the 14th January, 1898, to acquire one one-half interest in mineral claim No. 14, Bear Creek, Klondike District, Yukon, N.W.T. ; half in claim No. 22, Hunker Creek ; claim No. 4, on Chief, or Isaac Gulch ; placer gold and platinum properties at Tulameen, Eagle Creek, Hines Creek, British Columbia, and about 5,000 acres of coal lands, and 1,000 acres of oil lands in Alaska. The Authorized Capital is £125,000, in 125,000 shares of £1 ; all of the shares have been issued and are fully paid.

KLONDYKE PIONEER SYNDICATE, Limited.

Head Office: H. R. Hart, F.I.S., 10 Moorgate St., London, E.C.

Registered 30th July, 1897, for the purpose of carrying on the business of an exploring and financial company, more particularly in the Klondyke gold fields, N.W.T. By an agreement dated 31st July, 1897, Henry Nelson Coleman engaged to serve the syndicate exclusively in return for 9,000 deferred shares credited as fully paid : by a second agreement the syndicate was to pay to H. N. Coleman the sum of £1,000 for the preliminary expenses of the company up to allotment. The Authorized Capital is £25,000, in 15,000 ordinary shares of £1 each, and 10,000 deferred shares of £1.

KLONDYKE PLACER MINING AND DEVELOPMENT CO., Limited.

Incorporated 6th August, 1898. Authorized Capital. $100,000, in 20,000 shares of a par value of $5.00.

Directors :

N. A. Coste, Tp. of Malden, Ont.
S. W. Smith, Pontiac, Mich.
A. Whittaker, Windsor, Ont.
Wm. McGregor, M.P., Windsor, Ont.
M. A. McHugh, " "
George K. Prowse, " "
Chandler M. Walker, Windsor, Ont.

Head Office : Windsor, Ont.

Formed to search, prospect and work mines or mineral bearing ground in the Yukon District, N.W.T.

KLONDYKE PROSPECTORS AND FINANCIERS, Limited.

Registered 18th August, 1897. Authorized Capital, £30,000, in 30,000 shares of £1 each : in December, 1897, 20,000 shares were offered for public subscription.

Head Office : Lancelot Simpson, Secretary, St. Swithin's House, 10 St. Swithin's Lane, London, E.C.

Formed to select and purchase mineral properties, townsites, etc., with the object of re-selling to other companies. The company acquired options to purchase the following :—The sole right for the extraction of gold for twenty years from a length of five miles on the Fraser River, British Columbia ; property on the North and South Fork of the Quesnelle River, consisting of five alluvial gold claims of 160 acres each, three claims of 50 acres each, and 10 miles of the bed of the River (North Fork) Quesnelle, and water rights for 7,000 miner's inches of water to be taken from the falls below Cariboo Lake ; five Government leases for the extraction of gold for a term of twenty years, each concerning an area of 2½ miles in length by ¼ mile in width, containing about 400 acres of the Beaver Lake valley, Cariboo, etc. The purchase consideration for the options was £10,000, payable in fully paid shares.

KLONDYKE RESEARCH SYNDICATE, Limited.

Head Office: A. R. Carmichael, Secretary, 67 Lord St., Liverpool, England.

Registered 21st January, 1898, to acquire, work, own and deal with any lands and rights in and about the basin of the River Yukon, N.W.T. The Authorized Capital is £6,000, in 30 shares of £200 each: 17 shares have been issued and are fully paid, one share being issued credited as fully paid.

KLONDYKE, YUKON AND STEWART PIONEERS, Limited.

Registered 31st July, 1897. Authorized Capital, £206,000, in 200,000 ordinary shares of £1 each, 6,000 Pioneer's shares of £1 each: 28,007 ordinary and 5,258 Pioneer's shares have been issued. In August, 1897, 100,000 ordinary and 1,000 Pioneer's shares were offered for public subscription.

Head Office: W. Ernest Treweek, Finsbury House, Blomfield St., London, E.C.

Canadian Office: Dawson City, N.W.T.

The company owns and is developing four mineral claims on Bear Creek, and five claims on Barlow Creek, Yukon District, N.W.T.

KLONDYKE-YUKON EXPLORING SYNDICATE.

Head Office: Edwin Perry, Secretary, 6 Draper's Garden, London, E.C.

Registered 30th July, 1897, for the purpose of prospecting and acquiring auriferous lands in the Yukon District, N.W.T. By an agreement dated 29th July, 1897, between the Securities Conversion Association, Limited, and Frederick Sydney, as Trustee for the Syndicate, the expenses of issue were arranged for the consideration, being 1750 fully paid founders' shares. The Authorized Capital is £25,000, in 23,000 ordinary shares of £1 each: 3,578 ordinary and 1,766 founders' shares have been issued, the founders' shares being fully paid, and the ordinary having 7s. 6d. per share called up.

KNOB HILL GOLD MINING CO., Limited.

Incorporated 1897. Authorized Capital, $1,500,000.

Directors:

S. H. C. Miner.
C. J. Chisholm.
D. A. McCaskell.
A. L. White.
Jay P. Graves.
H. E. McIntosh.
W. H. Robinson.

Officers:

S. H. C. Miner, President.
Jay P. Graves, Vice-President. A. L. White, Secretary-Treasurer.
Jay P. Graves, Manager.

Head Office: A. L. White, Secretary, St. James St., Montreal.

Mines Office: W. Yolen Williams, Greenwood, B.C.

Owns and operates the Knob Hill mineral claim, in the Greenwood Camp, Yale District, Province of British Columbia. The ore-body is fully 50 feet wide, of nearly solid, fine-grained magnetite, carrying a very small percentage of copper, and some quartz and calcite in the same altered eruptive rock. Narrow bands of quartzose rock, with some yellow copper, traverse this body of iron along the line of strike. Small openings show the continuation of this mineralized zone to the south, but with a much narrower width of ore. In the Mines Report for 1897 we find the following, respecting this deposit:—

"Again we are confronted by the fact that too little has yet been done to show the true significance of this large ore-body, in which are, apart from iron ore, very small values in gold and copper, as will be seen in the samples taken and assayed by Mr. Guess, whose results were kindly submitted by Mr. Graves, *i.e.*:—

(1) Nine feet of magnetite ore gave $2.75 in gold, 9 ozs. silver per ton, 3.8 per cent. copper, 57.6 per cent iron, and 7.5 per cent. silica.

(2) Twelve feet gave $1.12 in gold, .6 ozs. silver per ton, 1.9 per cent. copper, 46 per cent. iron, and 22.3 per cent. silica.

(3) Twenty feet gave $1.50 in gold, 4 ozs. silver per ton, 1.82 per cent. copper, 36.9 per cent. iron, and 29.3 per cent. silica.

A general sample across the whole ledge gave (not assaying for gold or silver) 37.8 per cent. iron, 30.8 per cent. silica, and 6.3 per cent. lime.

Hence this ore exhibited in this surface cut will make valuable material for fluxing in smelting, and further work, since resumed, may yet disclose higher values in gold, silver and copper in this ledge, about which so little is really known."

KNOB HILL GOLD MINING CO.—Continued.

The plant comprises:—One steel boiler, 50 h.p.; one 10-drill duplex Rand compressor; Rand drills, Bacon hoisting engine, Cameron pump, etc.

In his report to the shareholders, dated 5th November, 1898, Mr. Williams describes the operations as follows:—

"The underground development of the Knob Hill consists of one tunnel, which starts in at the extreme north end of the claim, and has reached a total length of 345 feet, giving a vertical depth of 131 feet from the surface.

There are also numerous open cuts made in various places on the surface, exposing the ore body in each place, proving its continuity along the length of the claim, and demonstrating the magnitude of the ledge.

One of the said cuts is over 100 feet long, apparently at right angles to the course of the ledge. The tunnel has reached a point underground opposite this cut and 168 feet to the east of it, the open cut, as stated, being over 100 feet in ore, and the distance between it and the line of tunnel being 168 feet, makes a total of 278 feet of ore that we can be reasonably certain of on that side of the tunnel, and it has been exposed for at least 50 feet on the other side, which gives a total width of over 300 feet, as I have previously stated. The tunnel above mentioned was commenced in the latter part of last May, and was operated with hand drills up to the middle of summer, at which time an air compressor plant was installed and operated jointly with the Old Ironsides mine since that time. The tunnel has been in ore the entire distance and is still in solid ore, and as a result of the work, I estimate that there lies now, on the dump, in the neighbourhood of 900 tons of ore, representing a total value of $13,500 by calculating on the basis of $15.00 per ton, which I believe to be a conservative estimate, judging from the assays that have been obtained from time to time since the tunnel was started. Although no attempt has been made as yet, to thoroughly sample the ore-body in a careful and systematic manner in order to determine the general average value thereof, I believe the above figures are not far out of the way as a basis of calculation, from the fact that a camparatively careful sampling was done for a distance extending over a hundred feet in the tunnel, which yielded a a general average, as I previously stated, of over $20.00 per ton."

KOBOLD GOLD MINING CO. OF OTTAWA, Limited.

Incorporated 1897. Authorized Capital, $500,000, in shares of $1.00 each.

Officers:

Robert H. Preston, ex-M.P.P., Ottawa, President.
Alex. Bannerman, Ottawa, Vice-President.
George H. Rogers, Ottawa, Treasurer.
George L. Blatch, Ottawa, Secretary.

KOBOLD GOLD MINING CO.—Continued.

Directors:

Robert H. Preston, Ottawa | Fred. W. Bindon, Ottawa
Alex. Bannerman, " | Robert H. Cram, "
George H. Rogers, " | Adam T. Shillington, "
Moses C. Edey, " | John Huckell, "
James Davidson, Ottawa.

Head Office: 27 Sparks Chambers, 193 Sparks Street, Ottawa, Ontario.

This company has acquired and is developing mining location Lot No. 15, in the 5th Concession of the Township of Jaffray, in the Rainy River District, in the Province of Ontario, Canada, covering in all an area of fifty-five acres.

KOHINOOR GOLD MINING CO., Limited.

Incorporated 5th October, 1896. Authorized Capital, $1,000,000, in shares of $1.00.

Officers:

Samuel R. Stone, President.
E. T. Richter, Vice-President. Abner Brown, Sec.-Treas.
F. W. Baner, Managing Director.

Head Office: Abner Brown, Sec.-Treas., Spokane, Wash.

Canadian Office: F. W. Bauer, Rossland, B.C.

Owns and is developing the "British Lion," "Silver Cord," "The Wonderful," "Surprise No. 6," "Lily of the Mountain," and the "Golden Bar," in the Trail Creek District, Province of British Columbia.

KOOTENAY AND CARIBOO GOLD FIELDS, Limited.

Incorporated under the laws of British Columbia, 4th March, 1897.
Authorized Capital, $100,000, in shares of a par value of $1.00.

Officers:

Hon. Dr. D. H. Wilson, President.
J. R. Seymour, Vice-President. A. A. Boak, Secretary.

Directors:

Hon. Dr. Wilson. | J. R. Seymour. | C. N. Davidson.
J. G. Thomson. | Chas. Coulson. | J. O. Benwell.
J. A. Cowan.

KOOTENAY AND CARIBOO GOLD FIELDS—Continued.

Head Office: 515 Hastings Street, Vancouver, B.C.

Owns the Mammoth and Standard mineral claims, situated at the head of Whitewater Basin, Ainsworth Mining Division, West Kootenay, B.C., and the "Orphan Boy" claim, situated in Ground Hog Basin, of the Big Bend District, British Columbia.

KOOTENAY AND CARIBOO MINING SYNDICATE, Limited.

Head Office: T. P. Penney, Secretary, 33 Finsbury Circus, London, E.C.

Registered on the 27th March, 1896, to carry on the business of a mining, smelting and metallurgical company. The authorized Capital is £5,000, in 5,000 shares of £1 each; 1,620 shares have been issued, and are fully paid.

KOOTENAY AND COLUMBIA PROSPECTING AND MINING CO., Limited.

Incorporated 1892. Authorized Capital, $40,000, in shares of $100.

Directors:

G. P. Brophy, C.E., Ottawa, Ont.
W. A. Allan, Ottawa. | Hector McRae, Ottawa.
S. H. Fleming, " | J. W. McRae, "

Head Office: Victoria Chambers, Ottawa, Ont.

Formed to carry on a general mining business; to buy and sell and otherwise deal in mines, mining lands and minerals; to prospect and explore for, quarry, develop, work, extract and mine throughout the provinces of the Dominion of Canada, ores and minerals of every kind, etc. Owns fourteen mineral claims in the West Kootenay District, Province of British Columbia, as follows: (1) *Toad Mountain group*: Comprising the "Buckingham," "Silver Tip," and "Valley of Achor" claims, situate nine miles from the town of Nelson. (2) *Kaslo group*: Comprising the "Wellington," "Ottawa" and "Bolderwood," situate twelve miles from the settlement of New Denver; and (3) the *Johnson Creek group*: Situate about fifteen miles west of the village of Kaslo, and comprising the "Stanley," "Nip and Tuck," "Morning Glory," "Hidden Treasure" and "Evening Star" claims The mineral is mainly argentiferous galena.

KOOTENAY BRITISH COLUMBIA MINING SYNDICATE, Limited.

Head Office : Charles S. Good, Secretary, 57 Moorgate Street, London, E.C.

CANADIAN OFFICE :

Henry Brelich, M.E., Nelson, B.C.

This syndicate was registered on the 8th March, 1897, to adopt an agreement with H. J. and E. G. Wilson, and to acquire and deal with certain mining property in the Kootenay District, British Columbia. The authorized Capital is £15,000, in 15,000 shares of £1 each ; 3,175 shares have been issued, and 10s. per share is called up.

KOOTENAY CARIBOO MINING & INVESTMENT CO., Limited.

Incorporated in British Columbia, 4th March, 1897. Authorized Capital, $2,500,000, in shares of a par value of $1.00.

Directors :

Hon. John Costigan, M.P., Ottawa, President.
John Mulligan, Yonkers, N.Y., Vice-President.
John Small, Toronto, Ont., 2nd Vice-President.

Hon. J. Royal, Montreal.
J. D. Hazen, Q.C., St. John, N.B.
Jules Tessier, Q.C., M.P.P., Quebec.
W. A. Mears, Philadelphia.
H. G. McMicken, Toronto.
Major Thos. Beattie, London, Ont.
A. Watson, Chicago.
J. L. Gates, Milwaukee.
J. T. McLaughlin, Buffalo.
S. B. Burchard, N.Y.
Hon. J. N. Kirchoffer, Brandon, Man.
Felix Carbery, M.P.P., Quebec.
A. H. Moore, Magog, Quebec.
D. A. Rose, Toronto.
W. J. Hambley, Toronto.
J. Fee, Chicago.
A. W. Ross, Toronto.
A. M. Stearns, Boston.
S. S. Ryckman, Hamilton, ex-M.P.

Head Office : George MacBeth, Secretary, 4 King Street E., Toronto, Ont.

KOOTENAY CONSOLIDATED MINING CO. OF EVERETT, Limited.

Incorporated 21st August, 1896. Authorized Capital, $100,000, in shares of $1.00.

Head Office : T. E. Clochecy, General Manager, Golden, B.C.

KOOTENAY CONSOLIDATED MINING CO.—Continued.

Owns and is developing the Bennison Group of mineral claims, comprising the Bennison, Boston and International, situated near the head waters of the Beaver, and distant about 33 miles from Bear Creek Station, C. P. Railway, Golden Mining Division of British Columbia.

The open cut on the Boston shows up a body of ore extending over a width of 32½ feet, the ore being galena interspersed with grey copper. At 100 feet below this cut a tunnel (No. 1) has been driven 192 feet. At a distance of 150 feet from the mouth it cuts the Boston lead and follows on the western wall of the ore-body which was exposed at the surface in the open cut. At a point 54 feet from the mouth, a vein of rich galena was cut. Two drifts have been run north-west from the tunnel, and one north-east, one of which cuts the Boston lead at 15 feet, another is in 64 feet and cuts a stringer which shows splendid ore. About 300 feet west of the tunnel an opening has been made on the western system of leads, which forms so prominent a feature of the property, and a tunnel has been run in on them for a distance of 35 feet. One of these leads is a contact vein, two to four feet wide, running with a porphyry dyke and is a particularly promising lead.

No. 2 tunnel is 750 feet below tunnel No. 1, and is run to develop the Bennision lead, a body of gold-bearing quartz. After running along this lead for 158 feet the tunnel crosscuts it, and the crosscut will be continued this summer to cut the Boston and other leads to the south-east; this will practically develop the lead to a depth of a thousand feet.

Assays made on ore from the western system of veins show gold, silver, lead, and copper.

The property is now at that stage at which very little more work can be done till proper means of transportation are obtained, so that machinery can be got in and the property placed on a working basis.

KOOTENAY DEVELOPMENT CO., Limited.

Head Office: A. Kennedy, Secretary, 22 Fenchurch Street, London, E.C.

Registered on 17th February, 1897, to acquire mining properties and estates, and to carry on in British Columbia and elsewhere, the business of traders, miners, prospectors, &c. The Authorized Capital is £10,000, in 10,000 shares of £1 each; the shares issued are fully paid.

KOOTENAY DISTRICT GOLD EXPLORATION SYNDICATE, Limited.

Head Office: E. Wakefield, Secretary, 34 Great St. Helens, London, E.C.

This company was registered on the 2nd June, 1897, to carry on exploring and mining operations in the Kootenay District of British Columbia. The company has acquired from the Perth Syndicate, Limited, two claims known as the Pearl and Elkhorn, situated on Perry Creek, British Columbia, the purchase consideration being £4,500, payable £2,500 in cash and £2,000 in 200 fully paid shares. The Authorized Capital is £15,000, in 1,500 shares of £10 each; 642 shares (£6,420) have been issued and are fully paid.

KOOTENAY GOLD FIELDS SYNDICATE, Limited.

Head Office: John Smith and Herbert Mayo, Joint Secretaries, 39 Lombard Street, London, E.C.

CANADIAN OFFICE:
D. B. Bogle, Managing Director, Rossland, B.C.

This Syndicate was registered on the 17th March, 1896, to carry on the business of an exploring, prospecting, mining and trading company in British Columbia. The Syndicate has acquired a controlling interest in the Victory and Triumph properties in British Columbia, 85 acres in extent, which are being developed by the Victory and Triumph Mines Development Syndicate, Limited. The Authorized Capital is £20,000, in 20,000 shares of £1; 10,000 shares have been issued, and 17s. per share has been called up. The first accounts, made up to the 31st August, 1897, and submitted on 18th November, 1897, showed a balance of £2,769 17s. 5d. to debit of profit and loss account.

KOOTENAY-LONDON MINING CO, Limited.

Incorporated in British Columbia, 25th June, 1896. Authorized Capital, $1,000,000, in shares of $1.00

Directors:

Hugh McClymont. C. O. Lalonde, President. J. L. G. Abbott. J. S. Paterson. A. J. McMillan.

Head Office: Hugh McClymont, Secretary-Treasurer, Rossland.

Owns the Annie Fraction mineral claim, situated about one mile distant from Rossland, B.C.

KOOTENAY ORE CO., Limited.

Registered in England, 29th July, 1896. Authorized Capital, £25,000, in 2,500 shares of £10 each: all the shares have been issued and £2 per share called up.

Head Office: J. Stewart, 2 Suffolk Lane, Cannon St., London, E.C.

Canadian Office: George Alexander, Managing Director, Kaslo, B.C.

Formed to carry on the business of ore dealers, samplers and smelters, in British Columbia.

The works, which are situated at Kaslo, are equipped with the following plant:—9 x 15 Blake crusher: 24 x 14 steel Cornish rolls; 12 x 12 steel Cornish rolls; Bridgman automatic sampling machine, largest size; Bridgman automatic sampling machine, smaller size; Challenge ore feeder; sample grinders; Fairbanks' track and other scales The motive power is steam, from 150 h.p. boiler and engine; steam being also utilized for heating and drying purposes. The works have a sampling capacity of 250 tons daily, and are so arranged as to be capable of indefinite extension. There is an ample provision of ore bins for enabling parcels to be kept entirely distinct and separate where necessary. The sampling floors are steel sheeted in a manner to ensure the ore under treatment, from admixture with remains of former lots. Convenient steaming chambers are provided for the handling of frozen carbonate ores. The works are lighted by electricity supplied by dynamos on the premises.

The sampler building, measuring 80 x 60 feet, is most advantageously situated on the north bank of Kaslo Bay, so graded as to enable the ore to pass by gravity through its various processes. Fire protection is secured by hydrants and hose throughout the building, fed by gravity with a sufficient supply of water. A railroad track has been constructed, connecting the Kaslo & Slocan Railroad system with the sampler, whilst its private wharf on Kaslo Bay, connected with the works by about 100 feet of tramway, provides for the loading of ore which has passed through the mill, on to the Kootenay Lake steamers, by an almost automatic process.

On the important question of the mode of sampling in use, a short explanation may be of interest. The growing tendency to supersede hand sampling, by automatic machinery, so as to reduce the process as nearly as possible to a mathematical certainty freed from any possible errors of inaccuracy or carelessness on the part of those concerned, has caused the adoption in these works, of two of the beautifully accurate Bridgman machines. The larger, with a capacity of 20 tons per hour, will be in general use, and gives double samples and three quarterings on each sample, with final samples of 1 to 2 per cent. of the original weights. The smaller, intended for use in

KOOTENAY ORE CO.—Continued.

cutting down the crushed final samples of the large machine, gives a single sample of three cuts.

In any cases where special circumstances may render it desirable, hand sampling will also be practised at the Kaslo works; but the many points of conceded superiority in the automatic process will no doubt incline customers to take advantage of the double opportunities afforded in these works.

In the immediate proximity to the sampling works are the assay offices, in which will be found a most complete equipment of assay apparatus of the highest standard.

KOOTENAY PROMOTION SYNDICATE, Limited.

Head Office: W. Cooper, Secretary, 9 and 10 King St., London, E.C.

This company was registered on the 30th May, 1896, to carry on business as promoters, financiers, etc., and is exploring in British Columbia. The Authorized Capital is £200, in shares of £1: all the shares have been issued and paid up. There are also debentures to the amount of £4,800. The syndicate is interested in the Pioneer Development Company, Limited.

KOOTENAY-ROSSLAND MINING CORPORATION, Limited.

Head Office: C. F. Walton, Secretary, Tower Chambers, Moorgate Street, London, E.C.

This company was registered on the 30th December, 1897, to act as a general development company in the Kootenay and Rossland Districts of British Columbia. The Authorized Capital is £10, in 10 shares of £1.

KOOTENAY-SALMON GOLD MINING CO., Limited.

Incorporated in British Columbia, 16th September, 1896. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

Dr. Louis Beaupre, Montreal, President.
J. P. Martin, Vice-President. P. J. Shields, Manager.
W. H. Kerry, Secretary.

Head Office: W. H. Kerry, Secretary, New Westminster, B.C.

Owns the Louis B., Copper King and United Verde mineral claims, Nelson District, B.C.

LADY MARION MINING AND DEVELOPMENT CO. OF MANITOBA, Limited.

Incorporated under the laws of Manitoba. Authorized Capital, $200,000, in shares of $1.00.

Officers:

Hon. Hugh J. Macdonald, President.
Dr. R. J. Blanchard, Vice-President. W. D. Pittigrew, Sec.-Treas.

Directors:

Hon. Hugh J. Macdonald. | A. Kennedy.
S. W. McKinnon. | W. Henry.
H. Cooper. | W. D. Pettigrew.
John McKenzie.

Head Office: W. D. Pettigrew, Secretary, Winnipeg, Man.

Owns and is developing the Lady Marion Gold claim, situate one mile west of Tache Station, C.P.R., Ontario.

LAKE ERIE OIL AND GAS CO., Limited.

Incorporated 1896. Authorized Capital, $45,000.

Directors:

A. M. McIntyre. James Poole. D. C. Clay. Colin S. Leitch.

Head Office: Dutton, Ont.

Formed to drill for gas and oil in the townships of Aldborough, Dunwich, Southwold, and the village of Dutton.

LAKE MANITOWICK GOLD MINING AND DEVELOPMENT CO, Limited.

Incorporated 1898. Authorized Capital, $999,998, in shares of $1.00 each.

Directors:

Dr. A. Stewart, Palmerston, Ont., President.
A. Hess, Palmerston, Ont. | D. W. Dulmage, Palmerston, Ont.
D. Forsyth, " " | S. Schneider, " "

Head Office: Geo. T. Downs, Sec.-Treas., Palmerston, Ont.

Owns and is developing five mineral claims, each comprising 22½ acres, Michipicoten Mining Division of Ontario.

LAKESIDE GOLD MINING CO. OF RAT PORTAGE, Limited.

Incorporated in Ontario, 6th January, 1897. Authorized Capital, $750,000, in shares of $1.00 each.

Directors :

F. W. Drewry, President.

G. F. Bryan, Vice-President.
A. M. Hall-Dare.
David Wilson.
John C. McNab.
H. S. Crotty, Secretary-Treasurer.
H. H. Beck.
T. R. Deacon.
E. A. Holmes.

Head Office : H. S. Crotty, Secretary, 515 Main St., Winnipeg, Man.

Mine Office : Rat Portage, Ont.

Owns and is developing four mining locations, comprising an area of 338 acres, in the Rainy River and Lake of the Woods District, Ontario.

Among the properties held by the company are the following : G 120, 162 acres adjoining the Olive mine, Seine River, S 113, 54 acres on War Eagle Lake ; A D 463, 84 acres, adjoining A D 69, 40 acres, New Klondike. All being fully paid up and patent applied for with the exception of A D 69, which is held under lease. Snowbird 54 acres, in Rossland, B.C., held under location purchase. There is still $300 to be expended upon this property before Crown grants can be applied for.

LAMBTON OIL CO., Limited.

Incorporated January 13, 1899. Authorized Capital, $20,000, in shares of $100.00 each.

Directors :

Geo. Knight, Sarnia, Ont.

T. Carrick, Sarnia, Ont.
Wm. Sproule, Plympton, Ont.
R. E. Moss, Port Huron, Mich.
S. W. Trusler, Plympton, Ont.

Head Office : Sarnia, Ont.

Formed to construct, maintain, complete and operate works for the production, sale and distribution of natural gas for the purposes of light, heat and power.

LAST CHANCE MINING CO., Limited.

Incorporated in British Columbia 25th November, 1898. Authorized Capital, $100,000, in 100,000 shares of a par value of $1.00.

Mines Office : Sandon, B.C.

Formed to purchase, take by lease, or otherwise acquire in any lawful manner, mines, mining rights, mineral claims, or mines, held as real estate, or any other mining property, in any part of the Province of British Columbia, or elsewhere, or any interest therein, and particularly the property of the "Last Chance Group of Mines," situate in the Slocan Mining Division of the District of West Kootenay, in the Province of British Columbia, and to pay for the same either in cash or in fully paid up stock of the Company.

The claims owned and operated by the Company comprise the "Starlight," "Last Chance," "Starlight Fraction," "Blizzard," and "Little Widow.

There are two small parallel veins running N.E. by S.W., one standing vertical, the other dipping S.E. 50°, and two tunnels 100 ft. apart in elevation. The upper tunnel is 240 ft. long with cross-cuts and drifts on smaller veins that lead off from the main one, while the lower, a cross-cut tunnel, intercepts the inclined vein at 180 ft., along which drifting has been done for 150 ft., with an upraise to the upper workings. This tunnel was being continued to strike the other vein, but had not done so at 100 ft., but it was in the works between these two tunnel levels that the character of the ore and the vein was best seen, as from an incline started down on the vein near the mouth of the upper tunnel, and when about midway between the levels extended as a drift, very high grade ore has been mined where the vein, varying in size from a few inches to 3 ft. of solid, rich silver-bearing galena was found to have, where galena was not solid, a quartz gangue with galena, forming good concentrating ore, Within surface influences the veins have suffered the usual alteration, and rich "carbonate" ore has also been stoped out. While so far most of the work has been directed towards the development of this mine a quantity of excellent ore has been sent down by rawhiding to Sandon, and thence shipped to the smelters, as in 1895, about nine car-loads of ore assaying 166 to 191 ozs. in silver per ton and 71 to 78 per cent. lead, and in 1896 17 car-loads averaging 182 ozs. in silver per ton and 62 per cent. lead were sold. 1700 tons shipped in 1898.

LEAP YEAR CONSOLIDATED MINING CO. Limited.

Authorized Capital, $1,000,000, in shares of $1.00.

Directors :

F. J. Hammond.
James D. Balfour.
George Rountree.
C. W. Belton.
John A Groden.
George H. Belton.
Arthur W. Mayell.
A. T. McMahen.
Thomas Beattie.
Charles McGregor.
J. D. Meckison.
A. R. McFarlane.
George J. Schlief.
Joseph Y. Brown.

Head Office : London, Ont.

Owns and is developing the Leap Year and Leap Year No. I, mineral claims, situated on Rover Creek, 4 miles from Ward's Ferry, Slocan District, British Columbia.

LEVIATHIAN GOLD MINING AND MILLING CO., Limited.

Incorporated in British Columbia, 2nd March, 1897. Authorized Capital, $2,000,000, in shares of a par value of $1.00.

Directors :

G. Reeder. G. C. Marsh. J. A. Speers. G. T. Cane.

Head Office : Samuel Fawcett, Secretary, Kaslo, B.C.

Owns and is developing the Leviathan Group, comprising eleven claims, and situated on the east side of Kootenay Lake, Kaslo Camp, Slocan District, British Columbia. The ore is an auriferous pyrrhotite, very similar to that found in the Rossland District. Tunnels and cross-cuts are being driven, but no ore, so far, has been shipped.

LEGAL TENDER MINING AND DEVELOPMENT CO., OF SLOCAN, Limited.

Incorporated 1897. Authorized Capital, $1,000,000, in shares of $1.

Officers :

J. F. McLaughlin, President.
John C. Hay. J. J. Franklin. Robert Scott.

Head Office : Thos. McLaughlin, Secy., Gooderham Bdg., Toronto, Ont.

LEGAL TENDER MINING CO.—Continued.

Mines Office: Slocan City, B.C.

Owns and is developing the "Legal Tender" claim, situated half-way between Slocan City and Lemon Creek, Slocan District, British Columbia. It also owns the Bonanza Group, consisting of four full claims, the Henderson, the Douglas, the William John, and the Goldberg, situated on the west side of Slocan Lake, about eight miles up Six Mile Creek.

LE ROI MINING CO., Limited.

Registered in London, England, 1898. Authorized Capital, £1,000,000, in 200,000 shares of £5 each. On 6th December, 1898, the London and Globe Finance Corporation, Limited, and the British America Corporation offered the shares to public subscription.

Directors:

The Marquis of Dufferin.	Whitaker Wright.
Right Hon. Lord Loch.	H. H. Andrew.

Head Office: F. A. Labouchere, Secretary, 15 Austin Friars, London, E.C

CANADIAN OFFICE:
Rossland, B.C.

Formed to acquire and work the Le Roi mine, formerly owned and operated by the Le Roi Mining and Smelting Co., Limited, and situated at Rossland, British Columbia.

The mine is worked through an incline shaft, 850 feet deep, with two hoisting compartments, and now 200, 350, 500, 600, and 700-foot levels are being extended westward. The main ore chute is over 400 feet long, and 6 to 30 feet wide, and on the 700-foot level a large body of ore, 35 to 40 feet wide, and already shown to be 200 feet long, is being worked. Here on the hanging and foot-walls are wide bands of good grade ore, while nearly all the intervening material, although of lower grade, is sent to the smelter. The present shaft is being sunk to the 900-foot level, but at the west end of the property, or 1,000 feet from the inclined shaft, it is proposed to shortly begin the sinking of a large vertical shaft, equipped with heavy hoisting plant.

Before passing into the hands of the present owners the mine had yielded $995,000 in dividends.

LERWICK GOLD MINING CO., Limited.

Incorporated in British Columbia, 8th March, 1897. Authorized Capital, $1,500,000, in shares of a par value of $1.00.

Officers:

O. D. Casselman, Chesterville, Ont., President.
J. L. Whitney, Rossland, B.C., Vice-President.
Dane S. Dunlop, Rossland, B.C., Secretary.
Leo H. Schmidt, Rossland, B.C., Treasurer.
Hugh J. McGlynn, Rossland, B.C., General Manager.

Directors:

O. D. Casselman. | J. L. Whitney. | Leo H. Schmidt.
Hugh J. McGlynn. | M. Morris. | A. J. Lockhart.
H. R. Dunlop.

Head Office: Rossland, B.C.

Owns and is developing the Elsie and Lytton mineral claims, on Wild Horse Creek, in Nelson Division of West Kootenay, British Columbia.

LILLOOET, FRASER RIVER AND CARIBOO GOLD FIELDS CO., Limited.

Registered 24th January, 1895. Authorized Capital, £300,000, in shares of £1, of which there has been subscribed and fully paid £250,000.

Directors:

R. M. Horne-Payne, Chairman. | J. Horne-Payne, Q.C.
Le Vicomte du Peloux. | R. Northall-Laurie.
Hon. Forbes G. Vernon. | Henri Rosenheim.

Canadian Office: Edgar A. Bennett, Revelstoke, B.C.

Head Office: Francis Williams, Secretary, 1 and 2 Great Winchester St., London, E.C.

At date of report the company is interested in 81 claims in the Province of British Columbia, and of these, owns 45, has a 75 per cent. interest in 9, and has 27 under bond. These embrace the Alpha group, in the Lardeau District; the City of Spokane mine, Trail District; Lanark group, Illecillewaet District; the Sunshine group, Lardeau District; Isabella group, Illecillewaet District, and the Aaron group, Montgomery District. The following

LILLOOET, FRASER RIVER & CARIBOO GOLD FIELDS—Continued.

is excerpted from the report submitted to the shareholders, 15th December, 1898, for year ended 30th September :—

DIRECTORS' REPORT.

The accounts to the 30th September, 1897, submitted on the 15th December, 1897, showed a balance of £45,095 12s. 3d. to debit of income and expenditure account, after writing £31,025 11s 8d. off properties account and for cost of claims abandoned, and other unproductive expenditure. Accounts in 1898 given below :—

It will be remembered that at the date of the last Annual Meeting of the Company, the Board had just completed an exhaustive enquiry into its colonial organization, as well as an examination of its more important properties, with the assistance of the best technical advice obtainable, and that amongst other changes, the offices of the Company, in British Columbia, had been removed from Vancouver to Revelstoke. The Directors are pleased to state that their anticipations of economies from the closer management have been realized, but the expenses in connection with the reorganization and examinations have fallen on the current year.

The statement of income and expenditure for the year shows a debit balance of £3,387 2s. 10d., of this sum, £848 4s. 10d. represents abnormal expenditure in connection with the enquiry and reorganization referred to above, leaving £2,538 18s. 0d. as the year's expenditure in excess of income. This sum of £2,538 18s. 0d. may be considered as being in reality still further reduced by the balance at the credit of the income and expenditure account of the Sunshine, in which your Company holds a large interest.

The invested funds of the Company immediately realizable, together with cash in hand, amount to about £50,000, showing that your Directors have strictly adhered to the policy to which they pledged themselves last year, of using these resources with the utmost caution.

No fresh claims or mining properties have been acquired during the year. Your Directors have had a good many offers before them, but, in their opinion, none were sufficiently promising to induce them to part with any portion of the Company's funds.

Your Directors have much satisfaction in stating that the hopes expressed of the Sunshine Company's claims at last year's General Meeting, have been, so far, fully borne out by actual results.

Within eight months these claims have produced 812 tons of first-class ore ; 160 tons are at the mine ready for shipment, and 650 tons shipped to various smelters have yielded a net return (all freight, treatment, and duty charges deducted) of $59,000, or nearly $91 per ton.

LILLOOET, FRASER RIVER & CARIBOO GOLD FIELDS—Continued.

For further particulars regarding the mine your directors refer you to the report of the directors of the Sunshine, Limited, enclosed herewith, by permission of the Sunshine Board.

It will be seen from the above that there is now still greater reason than there was last year to look forward with confidence to the future of the company.

During the past year some little work has been done on the company's properties in the Lillooet and Boundary Creek Districts, and the necessary expenditure has been incurred to hold the claims retained in the Trail Creek and Kamloops District.

Some development work has also been done on the City of Spokane Claim at Rossland, but in view of the activity displayed by the owners of adjoining properties in proving the latter, it was deemed wise to suspend work and to await the result of our neighbours operations. The directors look forward to this claim, situated as it is, close to the centre of the best mining lands at Rossland, proving to be a valuable property, and the same remark applies to the North Star Claim at Rossland, adjoining the Columbia and Kootenay properties, where development work is being carried on most energetically with—it is generally reported—satisfactory results.

The main tunnel of the Lanark mine on the 400 foot level has been extended a short distance towards the Maple Leaf Claim, thus reducing the length to be driven, when it is decided to push operations in this section of the property.

The company's title to four land blocks, on Galena Bay, in the Trout Lake District, has been completed during the year. These, together with the blocks acquired previously, give a total of approximately 1,263 acres.

On September 30th your company held :—

2 Claims in the Rossland District.
3 " in the Trail Creek Division.
2 " in the Boundary District.
2 " in the Lillooet District.
1 " in the Kamloops District.
9 " in the Trout Lake District.

Most of the claims are Crown granted, and the necessary steps are being taken to obtain grants for the remainder.

Further, the company owns 14,949 shares of $25 each, out of a capital of 17,000 shares of $25 each, fully paid, in the Lanark Consolidated Mining and Smelting Company, Limited, which company holds 16 claims, of which 12 are Crown granted.

It also owns all the issued 10% cumulative preference shares of £1 each, and 154,993 ordinary shares of £1 each out of 215,000 fully-paid ordinary shares issued in the Sunshine, Limited, which company holds 7 claims, of which 4 are Crown granted.

LILLOOET, FRASER RIVER & CARIBOO GOLD FIELDS—Continued.

BALANCE SHEET, 30TH SEPTEMBER, 1898.

Capital and Liabilities.

	£ s. d.	£ s. d.
To Capital Authorized—		
300,000 Shares of £1 each, fully-paid	300,000 0 0	
" Capital Subscribed—		
250,000 shares of £1 each, fully paid		250,000 0 0
" Sundry Creditors—		
London.....	731 8 8	
British Columbia.....	557 13 11	
		1,289 2 7
		£251,289 2 7

Assets.

By cost of acquisition of mining properties, and the amount expended on mining developments as per last balance sheet.....	140,876 7 9	
Add further expenditure to date.....	9,337 4 11	
		150,213 12 8
By Sundry Investments at Cost—		
Colonial government securities, English Corporation stocks, foreign government stocks.....		49,193 15 5
By Sundry Debtors—		
London.....	68 10 11	
British Columbia.....	180 3 6	
		248 14 5
By Office Furniture—		
London.....	322 1 11	
British Columbia.....	160 13 2	
		482 15 1
By Cash Balances—		
London bankers	841 2 4	
Petty cash.....	7 6 4	
Cash in transit to British Columbia.....	500 0 0	
British Columbia.....	95 12 8	
		1,444 1 4
By Income and Expenditure Account—		
Balance as per last account.....	45,095 12 3	
Special items as per account attached.....	1,223 8 7	
	46,319 0 10	
Balance added for this year as per account attached.....	3,387 2 10	
		49,706 3 8
		£251,289 2 7

LILLOOET, FRASER RIVER & CARIBOO GOLD FIELDS—Continued.

INCOME AND EXPENDITURE ACCOUNT, 30th SEPTEMBER, 1898.

To Expenditure at London, Paris and British Columbia Offices—			
General expenses, including rent, salaries, printing and stationery, advertising, postages, etc	£3,261 16 7		
Cables and telegrams	89 10 0		
Office furniture, 10 per cent. written off	120 17 9		
Travelling expenses	960 19 5		
Fees paid for technical advice on properties	139 8 10		
Duty on share warrants in France	204 3 3		
Audit fee	52 10 0		
Legal expenses	364 2 2		
Interest and exchange	46 1 6		
Loss on realization of investments	68 0 0		
		5,307 9 6	
Directors' fees		1,210 5 5	
		£ 6,517 14 11	
To balance brought down		£ 3,387 2 10	
Add amount written off properties account in addition to item in last income and expenditure account	£ 707 16 1		
Liability applicable to 1896-7 not ascertained until current year	515 12 6		
	1,223 8 7		
To balance from 30th September, 1897	45,095 12 3		
		46,319 0 10	
		£ 49,706 3 8	
By dividends and interests on investments		£ 1,649 2 2	
Sunshine fees		1,405 7 5	
Transfer and other fees		76 2 6	
Balance carried down		3,387 2 10	
		£ 6,517 14 11	
By balance carried to balance sheet		49,706 3 8	
		£ 49,706 3 8	

LILLOOET GOLD REEFS MINING AND MILLING CO., Limited.

Incorporated in British Columbia, 18th January, 1897. Authorized Capital, $200,000, in 800,000 shares of a par value of 25 cents.

Directors:

Chas. Coulson, President.
Chas. Nelson, Vice-President.
H. B. Gilmour. A. A. Boak. P. R. Ritchie.

Head Office: E. Bourne, Secretary, Vancouver, B.C.

Mines Office: Cayoosh Creek, Lillooet District, B.C.

The company owns the Aurious and Marguerite claims, situated on the left bank of Cayoosh Creek, Lillooet District, British Columbia.

LITTLE BERTHA GOLD MINING CO., Limited.

Incorporated 1898, under the Laws of British Columbia. Authorized Capital, $1,000,000, in shares of $1.00.

Head Office: Greenwood, B.C.

Formed to purchase or otherwise acquire the Little Bertha mineral claim, situated in Grand Forks Mining Division, British Columbia, and to pay for the same either in cash or fully paid-up stock or shares of the company, or partly in cash and partly in stocks or shares of the company; and to purchase, take on lease or in exchange, hire, locate or otherwise acquire any real or personal property of any kind or nature whatsoever, including mines, mineral claims, mining leases, or any other mining property in British Columbia.

LONDON AND B.C. ALLIANCE SYNDICATE, Limited.

Head Office: W. Griffiths, Secretary, 21 Great Winchester Street, London, E.C.

This company was registered in England on the 22nd December, 1896, to adopt an agreement with Erbsloh and Fergusson, and to acquire and deal

LONDON AND B.C. ALLIANCE SYNDICATE—Continued

with mining properties. The company has acquired certain properties in the Kootenay District, the purchase consideration being £4,575, payable £800 in cash, £3,750 in fully paid ordinary shares, and £25 in fully paid founder's shares. The Authorized Capital is £15,100, in 15,000 ordinary shares of £1 each, and 100 founder's shares of £1 each; all of the shares have been issued, the founder's and 3,750 ordinary (vendor's) being fully paid, and 11,250 ordinary having 20s. per share called up.

LONDON AND BRITISH COLUMBIA GOLD FIELDS, Limited.

Registered 1897. Authorized Capital, £200,000, in shares of £1, of which 197,500 are ordinary and 2,500 deferred shares. The deferred shares will not be entitled to participate in the profits of any year until 20 per cent. for that year has been paid on the ordinary shares, after which they will be entitled to one-half of the remaining profits.

Directors:

Arthur Johnstone Douglas. M. F. Armstrong. Arthur Fell.
Henry W. Foster. Oliver Wethered. Richard Popkiss.

Head Office: E. R. Tasman, Secretary, 3 Lawrence Pountney Hill, London, E.C.

CANADIAN OFFICE:

J. Roderick Robertson, General Manager, Nelson, B.C.; S. S. Fowler, E.M., Mining Engineer.

Formed with the following objects:—

(*a*) To prospect for gold and other minerals; to locate, peg out or otherwise acquire mining and other leases and properties or interest therein.

(*b*) To acquire, or take options of, concessions or mines, or blocks of shares in mining, land or other companies, and to provide working capital for such companies.

(*c*) To promote or otherwise establish companies or associations of a public or private character, for the purpose of acquiring and working, or otherwise turning to account, desirable mining undertakings or other enterprises, after the same shall have been duly examined or tested by this company, and to invest capital in existing approved mining and other properties.

DIRECTORS' REPORT, 1898.

The Directors submit their Annual Report and Statement of Accounts dealing with the financial year ending 30th September, 1898.

LONDON AND B.C. GOLD FIELDS—Continued.

The principal interests and properties held by the company are as follows :—

Principal interests represented by shares :—

In the Ymir Gold Mines, Limited.
" the Whitewater Mines, Limited.
" the Ruth Mines, Limited.
" the Yukon Goldfields, Limited.
" the Pyramid Copper Syndicate, Limited.

Mining properties owned by the Company :—

The Alma group of claims.
The Norfolk claims, Boundary District.

Mining options on properties held by the company :—

The Washington and Slocan Boy Mines.
The Toronto group of properties.

THE YMIR GOLD MINES, LIMITED.

This Company was formed with a Capital of £200,000, in 200,000 ordinary shares of £1 each, for the purpose of taking over the Ymir Gold Mines, which had been purchased and developed by the London and British Columbia Goldfields, Limited. The mines comprise seven claims and fractions amounting to 163 acres, together with mill site and water rights sufficient for the mill.

This Company has handed over to the Ymir Gold Mines, Limited, the properties, buildings and mine equipment, and has undertaken to erect a complete 40 stamp mill for the treatment of the ore. The whole of the plant has been shipped, and it is confidently expected that the mill will be complete and running by the end of this year.

Shareholders have already been informed of the immensely valuable ore bodies opened up.

When the developments had been extensively carried on, Mr. J. D. Kendall was called upon to examine and report upon this mine, and this report not only confirmed those of Mr. Fowler, but stated that 93,000 tons of ore, of a value of $1,123,200 (£232,000) were then actually blocked out. Since this time development work has steadily advanced, largely increasing the reserves and most satisfactorily proving the value of the mine at greater depth.

As this mine has sufficient ore already blocked out to keep the 40 stamp mill supplied for several years, and is particularly well situated for exceedingly cheap working, the Directors consider this mine will in a short time rank amongst the leading dividend paying gold mines in British Columbia. This opinion is fully confirmed by those who are conversant with mining matters

LONDON AND B.C. GOLD FIELDS—Continued.

in British Columbia. This Company sold a quarter interest at a large profit, retaining a three-quarter interest.

THE WHITEWATER MINES, LIMITED.

The Whitewater Mines, Limited, was issued by this Company, with a Capital of £125,000, in February last, for taking over and working the well-known Whitewater Silver Mines.

After full consideration, and thoroughly studying the subject, the Company's engineers decided that, to ensure economy in working, it would be advisable to mine the ore body in its entirety, rather than to select the clean ore for shipment first. The shipments to date have, therefore, been small, consisting only of clean ore recovered whilst driving tunnel extensions and other development work.

Great efforts were made to get the necessary concentrator erected in the least possible time, and it commenced working on the 30th of last month. The capacity of this plant is 100 tons per day.

Development work, consisting of the extension of the old tunnels and the driving of new ones, etc., has been vigorously carried out since the Company entered into possession of the property, with the result that the reserves of ore have been doubled, and are sufficient to keep the concentrator supplied for several years.

It is extremely difficult to put a value on this ore until the concentrator returns are known, but every estimate received from our engineers has been such that the Directors have every confidence that the profits to be derived therefrom will be sufficient to yield a very large return on the small capital of the Company.

Since the Whitewater Mines, Limited, entered into possession, the principal or Whitewater vein has been proved on the surface to run right across the Company's properties from the portion now being worked on the east, to the Myrtle R. on the west. Two other reefs have also been found, one on the Irene, north of the Whitewater vein, and the other 150 feet from the Whitewater vein on that claim, but, as yet, there has not been sufficient development work carried out to prove their value.

This Company's interest in the Whitewater Mines, Limited, is a large one, and has recently been increased.

THE RUTH MINES, LIMITED.

The Ruth Mines, Limited, is a Company with a capital of £120,000, owning a group of ten claims known as the Ruth, Ruth Fraction, Wyoming, Hope, Despair, Aurora No. 2, Aurora Fraction, Yuma, Yuma Fraction, and Suburban Fraction. These claims cover an area of about 210 acres, and are situated close to the railway at Sandon. The principal work has been carried out on the Ruth and Ruth Fraction, but another ledge has lately been dis-

LONDON AND B.C. GOLD FIELDS—Continued.

covered on the Aurora, and development work upon this claim, as well as in the principal workings, is now being actively prosecuted. During the 12 months ending 30th June last, 6,074 tons of ore, carrying both silver and lead, were shipped from the mine to the smelters; and, the operations of the Company resulted in a net profit of £29,733 19s. 6d. An interim dividend of 3s. per share was paid in February last, and a final dividend for the year under notice will shortly be declared.

A concentrating plant will be erected upon the property during the coming spring, and a large quantity of concentrating ore, which has already been mined, only awaits treatment, to yield good returns.

This Company's interest in the Ruth Mines, Limited, is a large one.

THE YUKON GOLDFIELDS, LIMITED.

The Manager of the Yukon Goldfields, Limited, has recently returned from Dawson City, and is now in England. From information obtained from this gentleman, the properties owned by the Yukon Goldfields, Limited, are likely to prove themselves of considerable value; and, consequently, the large number of deferred or founders' shares held by the Company are looked upon as an asset of great value. The principal claim owned by the Yukon Goldfields Company is No. 4 Bonanza, below Discovery, and is being worked throughout this winter by a full force of 30 men This claim is one of the most favourably situated on the Bonanza Creek, and will, it is estimated, produce this winter sufficient gold to give a very satisfactory return on the whole paid-up capital of the Company.

THE PYRAMID COPPER SYNDICATE, LIMITED.

The Pyramid Copper Syndicate, Limited, was formed for the purpose of taking up and developing a large number of mining claims situated in East Kootenay, at no great distance from the Crow's Nest Pass system of the Canadian Pacific Railway, the construction of which, it is understood, is now complete. These claims contain a number of silver-lead and copper ledges, which this Company has every reason to believe will, upon development, prove themselves to be extremely valuable. Development work has been in progress since the commencement of last summer, with satisfactory results.

THE ALMA GROUP OF CLAIMS.

The Alma group of claims, composed of the Alma, Inkerman, Alexandria and Gibralter, adjoins the Ymir Gold Mines on the western side, and is owned entirely by this Company. Only a small amount of exploratory work has been carried out, but, judging from surface indications and from their immediate proximity to the Ymir mines, the Directors believe that this Company has, in them, a property of considerable value, and they have, therefore, decided to vigorously continue development work as soon as the season of the year permits.

LONDON AND B.C. GOLD FIELDS—Continued.

THE NORFOLK CLAIMS.

The property consists of two adjoining claims, situated in Atwoods or Central Camp, Boundary Creek District, and is owned by this Company. As a railway will shortly be completed to within some seven miles of these claims, it was considered advisable to limit development work for the present Judging from the results obtained upon these claims, as well as from others in the district, our Manager assures the Directors that the Boundary Creek District is one which is rapidly coming to the front. He is therefore, already in negotiation for the purchase of others, being fully alive to the wisdom of this policy.

THE WASHINGTON AND SLOCAN BOY MINES.

These properties are situated in the Slocan District, about four miles from the Kaslo and Slocan Railway, and embrace eight claims and claim fractions, and are a combination of two properties adjoining each other, the one the Washington group, and the other the Slocan Boy group. Without such amalgamation it was impracticable to work the properties in the most economical manner, as the lower levels of the Slocan Boy can now be worked by tunnels through the Washington, instead of expensive shaft working, and, consequently, the cost of extracting the ore becomes very much reduced. The option on these properties has been secured by this Company, upon very favourable terms, and judging from the reports received from our engineers, and from the work which has since been carried out, this option has every prospect of proving an exceedingly valuable acquisition.

THE TORONTO GROUP OF PROPERTIES.

This property, comprising five claims or thereabouts, is situated in close proximity to the Poorman Gold Mines, in the Nelson District. As this option has only been taken up a short time, the work has not yet sufficiently advanced to enable the Directors to to give full information as to its valne. The terms upon which the option has been entered into are favourable to this Company.

ACCOUNTS.

From the accounts now presented it will be seen that, with a paid-up capital of £96,181 5s., a profit of £84,804 11s. 4d. has been made during the year ending 30th September last, which amount, added to that brought forward from the previous year, makes a total profit of £88,462 15s. 3d. Of this sum the interim dividend paid in March last absorbed £4,997 10s., leaving a net balance of £83,465 5s. 3d. to be dealt with at the end of this financial year. It will also be observed that the cash at the bank, the amount on loan against security of consols, the amount due from sundry debtors, and unpaid calls (the greater part of which have since been received) make a total of £55,992 18s. 11d.

LONDON AND B.C. GOLD FIELDS—Continued.

In arriving at the amount of £140,612 10s., appearing as investments in various Companies, the Directors have adopted a most conservative and cautious policy, every care having been taken to state the value of the shares at a figure which, in the opinion of the Directors, is considerabiy below their intrinsic worth. The item of £5,700 15s. 11d. is the actual amount expended on mining claims and options, and does not represent the improved value following upon the development work carried out.

DIVIDEND.

The Directors recommend that a further dividend be paid on the ordinary shares, which, with the interim dividend already paid, will make a total cash distribution at the rate of 20 per cent. per annum upon the paid-up capital of the Company, for the past year. It is also recommended that 20,000 fully paid shares in the Ymir Gold Mines, Limited, be distributed by way of further dividend which, according to the Company's Memorandum and Articles of Association, will be distributed in two moieties, one to the ordinary and one to the deferred shareholders, the balance of the profit being carried forward to next account.

BALANCE SHEET, 30TH SEPTEMBER, 1898.

Dr.

To Share Capital—			
Authorized—			
197,500 Ordinary shares of £1 each....	£197,500 0 0		
2,500 Deferred shares of £1 each....	2,500 0 0		
200,000	£200,000 0 0		
Subscribed and Issued—			
99,950 Ordinary shares, 20s. called ...	£99,950 0 0		
Less calls in arrear.....	6,268 15 0		
	£93,681 5 0		
2,500 Deferred shares, fully paid	2,500 0 0		
102,450		£96,181 5 0	
To Amount received on shares forfeited		12 10 0	
To Liability for the erection of machinery and for purchase and development on various claims		10,842 15 0	
To Sundry Creditors—			
London.....	£4,021 9 4		
British Columbia.....	1,698 17 5		
		5,720 6 9	
To Unclaimed dividends		7 5 0	

LONDON AND B.C. GOLD FIELDS—Continued.

To Profit and Loss—		
Balance at 30th September, 1897.....	£3,658 3 11	
Add balance 12 months to date represented by shares in the Ymir Gold Mines, Limited, and the Whitewater Mines, Limited	84,804 11 4	
	88,462 15 3	
Less interim dividend paid 3rd March, 1898.....	4,997 10 0	
		83,465 5 3
To Contingent liability for uncalled capital on shares held..... £10,375		
		£196,229 7 0

Cr.

By Investments in various companies		£140,612 10 0
(Those purchased being taken at cost, and those otherwise acquired at the Directors' valuation).		
To Mining claims and options		5,700 15 11
(Including development thereon to date).		
To Office furniture and surveying instruments	£239 16 5	
(British Columbia).		
Less 20 per cent. depreciation written off.	47 19 3	
		191 17 2
To Sundry Debtors—		
London.....	£15,747 15 0	
British Columbia	3,141 8 10	
		18,889 3 10
To Cash on Loan against security of consols.		10,000 0 0
To Cash at Bank and on hand—		
London	£19,684 4 11	
British Columbia	1,150 15 2	
		20,835 0 1
		£196,229 7 0

PROFIT AND LOSS ACCOUNT FOR YEAR ENDING 30TH SEPTEMBER, 1898.

Dr.

To Prospecting and general expenses (British Columbia and London).....		£1,434 10 3
To General Expenditure, London—		
Directors' fees and Managing Director's salary	£1,600 0 0	

LONDON AND B.C. GOLD FIELDS—Continued.

Office rent and salaries	£573 15 0		
Sundry commissions	125 4 0		
Interest and Bank charges	88 5 11		
Printing and stationery	78 11 7		
Cables, telegrams, and postages	74 15 8		
Audit fees (2 years)	70 7 0		
Income tax	46 8 4		
Advertising expenses	46 6 0		
Legal charges	40 19 10		
		2,744 13	4
To General Expenditure in British Columbia—			
Office rent and salaries	£2,045 11 6		
Travelling expenses	219 9 7		
Cables and telegrams	135 19 3		
Printing and stationery	15 16 3		
		2,416 16	7
To Reporting and Consulting Engineers' fees (British Columbia and London)		3,150 0	0
To Balance carried down		88,255 15	5
		£98,001 15	7
To Preliminary expenses (Balance as per last last Balance Sheet now written off)		£3,403 4	10
To Depreciation—Written off office furniture and surveying instruments, British Columbia		47 19	3
To Balance as per Balance Sheet, represented by shares in the Ymir Gold Mines, Limited, and the Whitewater Mines, Limited		84,804 11	4
		£88,255 15	5

Cr.

By profit on properties purchased and sold (received in fully-paid shares in the Ymir Gold Mines, Limited, and Whitewater Mines, Limited)	£90,771 9	3
Dividends on investments	4,640 0	0
Profit on working mining property	1,477 9	3
Fees and commissions received in connection with various undertakings	849 0	4
Difference in exchange	145 10	3
Transfer fees and sundry receipts	118 6	6
	£ 98,001 15	7
By balance carried down	£ 88,255 15	5

LONDON AND B.C. GOLD FIELDS—Continued.

DIRECTORS' REPORT 1899.

At the statutory meeting of shareholders held on July 7th, 1899, the chairman reviewed the operations since the above report as follows:—

He would deal first of all with the Whitewater Mine. Those of the shareholders who had received reports of that mine would no doubt be considerably disappointed. Something like 3,000 tons of ore had been concentrated per month, but the value of the silver from concentrates had been somewhat below estimates. The principal reason was that the concentrator plant was not so perfect as it might be. In saying this he did not pass any censure on their engineers, for everybody knew that ore values could only be exactly determined by experiment. Although they had poor reports of Whitewater that did not mean ultimate loss, because he believed they had stored the "tailings," and they would be treated later on. Meanwhile, the plant was being attended to, and they were informed by cable that better results might be expected in the future. Speaking for himself, he had not lost confidence in the Whitewater Mine for a moment.

The next property he had to refer to was the Ymir. Mr. Popkiss had expressed a strong opinion regarding this property. He told them that Mr. Fowler had the greatest confidence in its future. Last month something like 2,000 tons of ore were crushed, and the result of this, plus a certain amount of picked ore, realised £5,000; but from this amount certain expenses had to be deducted. When the first returns from the Ymir were to hand, some shareholders thought that they had here a low grade ore. In the Ymir there was a vein of great width, from 11 feet to 30 feet in some places of rich ore and in others low grade ore. The low grade ore was free milling and yielded a fine extraction. It would be madness to put this ore through the mills and it was therefore put into bags and sent to the smelters. In connection with the Ymir he might say that they had received an intimation that the West Australian Goldfields would exercise their option. As things had turned out, that was a very good option for them, and an extremely good option for the London and British Columbia Goldfields. They had received £55,000, of which they had been able to give £10,000 to the shareholders and the company had £70,000. What the first cost of that property was he need not say, but he might tell them that taking that day's price of the shares, the profit represented something like £140,000, which was their nominal capital. They had a Ymir extension, which might turn out as well as the Ymir itself. They had as yet done no work, however, and his statement was therefore only an expression of opinion.

Coming to the Ruth Mine, it had recently been visited by Mr. Fowler, and they were now expecting his report. They were erecting a concentrator plant there, and it would commence operations about the middle or end of

LONDON AND B.C. GOLD FIELDS—Continued.

August. He now came to a property about which they had heard something —the Enterprise of which they held 43 per cent. of the stock. Both Mr. Fowler ank Mr. Kendal believed that the company had made an extremely fortunate purchase, and their interest ought to represent a very large profit indeed. It was a fully developed property, and 577 tons of ore shipped had realised $38,500; there were 125 tons still to ship. This mine, in common with the Ymir and the Whitewater had been closed in consequence of the strike. Immediately the strike was over they would develop the property and proceed to the erection of a concentrator. The strike was affecting them in two ways. First of all, it stopped the development of their mines, and secondly, it stopped the issue of the company. Everything was ready for the launching of the company, which they anticipated would result in a large profit to them, as well as to those who were associated with them; but in view of the strike they deemed it wise not to make any issue, and he thought in making this decision they had acted with discretion. Speaking generally, although this strike had delayed them it had had one good effect. It had made the owners of properties more or less developed a little less exorbitant in their demands. In other words, they were able to buy properties to greater advantage than if things had gone on smoothly and there had been no strike. As soon as Mr. Popkiss returned, they would send out to the shareholders copies of his report, and they would then read for themselves what he had to say. On the previous night they had received a letter from Dawson City, Yukon. Strictly speaking, that letter was addressed to the directors of the Yukon Goldfields, but as they had such a large interest in that company and were the parents of it, he did not think he was doing wrong if he told them that that letter was extremely satisfactory. Their old Bonanza claim was going to do better than they expected, and the new claims were far more satisfactory than they could hope for. The prospects were very bright, and as they held 90 per cent. of the founders' shares of Yukon Goldfields, as well as some hundreds of the ordinary shares, they could look for a fine return in this investment. He might, he thought, anticipate some enquiring shareholders on the question of interim dividends by stating that the matter had had due consideration at the hands of the directors, and he did not think it would be very long before an interim dividend was declared. He thought the shareholders would see the wisdom of the course the directors proposed taking in waiting to hear Mr. Popkiss on the opportunities the strike had opened of advantageous buying before they used their money for other purposes, though at the same time, in view of the large sum the company had received from the West Australian Goldfields shareholders were no doubt anticipating an interim dividend.

LONDON AND VANCOUVER FINANACE AND DEVELOPMENT COMPANY, Limited.

Registered 12th January, 1897. Authorized Capital £100,250, in 100,000 ordinary shares of £1 each, and 5,000 deferred shares of 1s each; 11,760 ordinary and all the deferred shares have been issued, the ordinary having 10s per share called up and the deferred being issued credited as fully paid.

Directors:

Rt. Hon. Sir Edward Thornton, G.C.B., Chairman.
Col. E. C. C. Hartopp. | A. T. Nation.
H. W. Pelham Clinton. | F. C. D. Haggard.

Head Office: S. G. Bruff, Secretary, 54 Old Broad Street, London.

Canadian Office: A. St. George Hammersley, Vancouver, B.C.
A. H. Bromley, Mine Manager.

Formed to adopt an agreement made 7th January, 1897, with the Mercantile Company, Limited, and to carry on business as financiers, promoters, bankers, underwriters, etc.; also to acquire and deal with mining properties. At date of report the company owned or controlled an interest in some thirty-four mineral claims in East Kootenay, Slocan, Harrison Lake, West Kootenay and Trout Lake, and was developing the Blue Bells claim on Frederick Arm and the Copper Canon, Chemaine, Vancouver Island.

DIRECTOR'S REPORT.

(Twelve months ended 11th June, 1898.)

The company has acquired during the year a number of mining locations and options, upon which work has been carried on with the view of ascertaining their value. As the result of investigations a number of locations have been prospected and a few abandoned, leaving a considerable number in the possession of the company, upon which work will be resumed during the present year. These properties are taken in the balance sheet at the actual cost of the exploratio work done upon them, the expenditure in connection with the abandoned claims having been written off. The whole of the preliminary expenses have also been written off.

The directors also acquired two railway charters in British Columbia, one of which was sold at a price netting £3,006, and the other is under contract of sale, upon which £1,000 has been received with provisions for forfeiture on default by the purchaser to account for the balance of the consideration.

It will be seen that the company has made a clear profit already in respect of these charters of £3,826, irrespective of a share interest in a com-

LONDON AND VANCOUVER FINANCE AND DEV. CO.—Continued.

pany on the point of being formed and in which one of them will ultimately become vested.

It is to be regretted that the smallness of the working capital did not permit the directors to develop these railway concessions.

The directors would point out that the paid up capital is only £5,880, with a like amount of uncalled capital. It is obvious that with this small capital it is impossible to do more than examine the various properties, with a view to having them taken up by strong companies if the developments are satisfactory. The expenses are very heavy in proportion to the paid up capital, and would be no more if the whole of the nominal capital of the company (£100,000) was subscribed.

The directors recommend that a dividend of 20 per cent., or 2s. per share be declared for the past year upon the sum paid up on the ordinary shares, thus absorbing £1,176, and the balance of £182 2s. 1d. will be carried forward.

BALANCE SHEET, 11TH JANUARY, 1898.

CAPITAL AND LIABILITIES.

Dr.

To Authorized Capital—			
100,000 Ordinary shares of £1 each	£100,000 0 0		
5,000 Deferred shares of 1s. each.....	250 0 0		
	£100,250 0 0		
To Subscribed and Issued—			
11,760 Ordinary shares, 10s. per share being called up.....	5,880 0 0		
5,000 Deferred shares, allotted as fully paid in consideration of payment of all expenses up to allotment	250 0 0		
		6,130 0 0	
To Provision for outstanding charges.....		150 0 0	
To Sundry Creditors—			
London.....	127 0 1		
British Columbia.....	360 6 7		
		487 6 8	
To Profit and Loss Account—			
Balance		1,358 2 1	
		£8,125 8 9	

NOTE—There are liabilities for further payments in connection with options, etc., held, and also to Prospectors and others contingent on profits accruing on certain mining properties.

LONDON AND VANCOUVER FINANCE AND DEV. CO.—Continued.

PROPERTY AND ASSETS.

Cr.

By Mining Claims and Properties—		
Payments made in respect of interests acquired or held under option, including cost of development, assays, prospecting fees, reports on properties, licenses and expenses		£4,466 18 1
To Railway Charter No. 2—		
Deposit payable by purchasers of this charter to be forfeited if sale not carried through (paid since date of accounts)		1,000 0 0
To Debtor in British Columbia		39 9 3
To Cash—		
London	£2,491 7 4	
British Columbia	127 14 1	
		2,619 1 5
		£8,125 8 9

PROFIT AND LOSS ACCOUNT FOR YEAR ENDED 11TH JANUARY, 1898

(*Including British Columbia Accounts to 31st December*, 1897.)

Dr.

To London Expenses—		
Office rent and salaries	£200 0 0	
General expenses	6 14 6	
Directors' fees	545 2 1	
Cables and postages	21 8 10	
Printing and stationery	65 11 7	
Legal expenses	58 0 0	
		£896 17 0
To British Columbian Expenses—		
Salaries	£852 17 10	
General expenses	8 7 0	
Cables and postages	24 16 3	
Printing and stationery	3 16 0	
Travelling expenses	81 12 5	
		971 15 6
To Preliminary expenses in London and British Columbia, including cost of registration of company		297 17 10
To Expenditure on mining claims—abandoned		219 0 1
To Provision for outstanding charges		150 0 0
To Difference in exchange		1 5 11
To Amount carried to Balance Sheet		1,358 2 1
		£3,894 18 5

LONDON AND VANCOUVER FINANCE AND DEV. CO.—Continued.

Cr.

By Proceeds of sale of railway charter, No. 1..	5,000	0	0			
Less—Ascertained expenses relating thereto.	1,993	6	8			
				£3,006	13	4
By Proceeds of sale of railway charter, No. 2..	£1,000	0	0			
Less—Ascertained expenses relating thereto.	180	1	8			
				819	18	4
By Interest (balance of account).....				68	6	9
				£3,894	18	5

LONDON AND ROSSLAND (B.C.) Limited.

Registered 10th February, 1898. Authorized Capital, £15,000, in 15,000 shares of £1 each.

Directors:

T. J. Mercer. F. L. Mercer.

Head Office: George E. Davis, Secretary, 111 Little Park St, Coventry, England.

Canadian Office: Anthony J. McMillan, Rossland, B.C.

At date of report owned and was developing some seventeen mineral claims, comprising approximately an area of some 800 acres, principally in the Ymir District of British Columbia.

LONDON AND YMIR (BRITISH COLUMBIA) GOLD MINING CO., Limited.

Authorized Capital, $750,000, in shares of $1.00.

Directors:

A. J. McMillan.	Donald Kennedy.	J. L. G. Abbott.
Murray Kennedy.	G. H. Bayne.	Arthur Horne.

Head Office: William Tomlinson, Secretary, Rossland, B.C.

Owns and is developing a mineral claim 1½ miles south-east of Hall's, in the Ymir District of British Columbia. At date of report a tunnel had been driven 90 feet.

LONDON CONSOLIDATED GOLD FIELDS EXPLORATION CO., Limited.

Incorporated in British Columbia, 1897. Authorized Capital, $100,000, divided into 1,000,000 shares of ten cents each.

Officers:

Henry Roy, Rossland, B.C., President and Managing Director.
A. G. Galt, Rossland, B.C., Vice-President.
J. A. Macdonald, Rossland, B.C., Secretary-Treasurer.

Directors:

Henry Roy. | A. G. Galt. | John McKane.
F. W. Rolt. | L. L. Workman. | M. Johnson.
J. J. B. Gosselin.

Head Office: Rossland, B.C.

Mine Office: Edmund Gosselin, Mine Manager, Pilot Bay, B.C.

The Company owns and is developing a group of claims, comprising the Silver Hill, Simcoe, Norfolk, Green Crown and the S and N Fraction, situated on Canyon Creek, a tributary of Crawford Creek, Ainsworth Mining Division, British Columbia. Opened by six tunnels, of which the longest has been driven 500 feet.

LONDON GOLD MINING AND DEVELOPMENT CO., Limited.

Incorporated December 24th, 1896. Authorized Capital, $500,000, in shares of $1.00 each.

Directors:

Dr. W. F. Roome, London, Ont. | J. Powell, C.E., London, Ont.
Dr. W. J. Weekes, " " | G. Burness, " "
G. N. Weekes, " " | M. J. Burns, " "
A. Greenlees, " " | A. A. Campbell, " "
W. Spittall, " " | J. W. Butler, " "
R. D. Millar, " " | S. Wolverton, " "
T. E. Robson, " " | J. F. Sangster, " "
F. W. Daly, " " | S. B. Coon, " "

Head Office: London, Ont.

Formed to carry on the general business of miners and smelters.

LONDON HILL DEVELOPMENT AND MINING CO., Limited.

Incorporated 1896. Authorized Capital, $150,000.

Directors:

Oliver T. Stone. Hamilton Byers. T. G. Proctor.

Head Office: C. W. McAnn, Secretary, Kaslo, B.C.

T. G. Proctor, President. C. Von Moerkerke, Superintendent.

Owns and operates the London, Third of July, Pompeii and the factional claim Round-up, situate west of Carpenter Creek, about three miles from the K. & S.R.R., Slocan District, Province of British Columbia.

Near the summit of a ridge two tunnels have been driven, in one of which, over 40 feet long, is a 4-foot quartz vein, carrying grey copper ore and silver sulphides. On the other side of the ridge, 250 feet below the summit, a tunnel 320 feet long is being driven to tap the vein in depth, in which several small quartz veins, traversing the slates and quartzites were cut. Three lots of high grade ore, or about 40 tons, have been shipped, on which the smelter returns were 190 ounces, 267 ounces and 150 ounces of silver per ton, respectively. As in other veins of this character of ore, there is much second-class ore that will have to be milled near the mine, but the method to be adopted will be decided after more underground work has been done.

LONDON OIL COMPANY, Limited.

Incorporated 1897. Authorized Capital, $3,000, in 60 shares of a value of $50.00 each.

Directors:

E. Scatcherd. C. W. Leonard. J. M. Piper. L. Meredith. J. McDonald.

Head Office: London, Ont.

Formed to prospect, drill and operate for petroleum, oil, gas, or other minerals.

LONE STAR & BLUE GROUSE CONSOLIDATED MINING CO., Limited.

Incorporated under the Laws of British Columbia, 30th June, 1898. Authorized Capital, $1,000,000, in shares of $1.00.

Head Office: Rossland, B.C.

LOOKOUT MOUNTAIN MINING CO., Limited.

Incorporated 12th December, 1896. Authorized Capital, $1,250,000, in shares of a par value of $1.00.

Directors:

Charles Dundee.	Daniel Drumheller.	Ralph White.
W. H. Campbell.	Colonel Turner.	Wm. Chaffy.
J. J. Moynahan.	Angus Beaton.	R. T. Daniel.

Head Office: R. T. Daniel, Secretary-Treasurer, Trail, B.C.

Owns the Joker and Pink mineral claims, on Lookout Mountain, 1¼ miles from the town of Trail, British Columbia.

LUCKY BOY MINING AND DEVELOPMENT CO., Limited.

Incorporated 23rd February, 1897. Authorized Capital, $1,500,000, in shares of a par value of $1.00.

Directors:

S. L. Myers, President and Manager.
G. M. Lauridsen, Port Angeles, Wash., Vice-President and Treasurer.
W. L. McDonald, Rossland, B.C., Secretary.
W. W. Houghton, Seattle, Wash. M. E. Myers, Rossland, B.C.

Head Office: Rossland, B.C.

Mine Office: Waffer Mine, Erie, B.C.

Owns and is developing the Waffer mineral claim, on the North Fork of Salmon River, Nelson Division, and also three claims on Sullivan Creek, Trail Creek Mining Division, British Columbia.

LUCKY COON GOLD MINING CO., Limited.

Incorporated in Ontario, 13th April, 1899. Authorized Capital, $1,000,000, in shares of $1.00 each. Of the capital stock, six hundred thousand shares pass to the former owners of the property (through trustees) and four hundred thousand shares pass into the treasury of the company, which are to be devoted to the development of the mine and the installation of a larger stamp mill. Under the stipulations and agreements by which this property was secured by the company, no stock excepting the treasury stock shall be sold until the mine is placed on a paying basis, and only sufficient treasury stock is to be sold to meet the expenses of development and improvements as operations progress, and is not to be sold except in small blocks, and offered from time to time at such prices as the Board of Directors shall determine.

Officers:

J. S. Hillyer, President.

Geo. H. Hillyer, 1st Vice-President. W. J. Keating, 2nd Vice-President.

Carroll Corson, Secretary and Treasurer.

Directors:

J. S. Hillyer. Geo. H. Hillyer. W. J. Keating. Carroll Corson.
Hugh Steele. A. W. H. Eckstein. J. H. Bennett.

Head Office: Keystone Block, West Superior, Wis.

CANADIAN OFFICE:

Mine Centre, Ont.

Owns and is developing Mining Location 655 P., comprising 167 acres, and situated about 1½ miles north from the town of Mine Centre, Rainy River District, Ontario.

The following mill tests are officially reported:—

From No. 5 Vein, 3 tons crushed gave 13 ozs. 18 dwt. From No. 2 Vein, surface pit: Amount crushed, one and a half tons. Result: bullion, 6 dwt. 7 grs. From No. 2 Vein: Amount crushed, 2 tons, taken from 36 to 38 feet in depth in shaft. Result: pressed amalgam 3 oz. 4 dwt. 12 grs. From No. 1 Vein: Crushed, 2 tons. Result: pressed amalgam 2 ozs. 10 dwt. (approximately $32.00). Taken from depth 55 to 56 feet.

LYNX HEAD GOLD MINING COMPANY OF ONTARIO, Limited.

Incorporated under the laws of Ontario. Authorized Capital, $1,000,000.

Head Office: Exchange Building, Duluth, Minn.

The company owns and is developing mining location A. L. 66, comprising about 115 acres, and situated on the north side of the Seine river, just above the falls where the river enters Lynx Head lake, province of Ontario.

MABEL GOLD MINING CO., Limited.

Registered in British Columbia 5th March, 1887. Authorized Capital, $1,000,000 in shares of a par value of $1.00.

Directors:

N. E. Matthews. W. A. Ritchie. C. D. Crites. John Finlay. Amos Young.

Head Office: C. D. Crites, Secretary, Lima, Ohio.

The company owns the Mabel mineral claim comprising 13 acres, and situated on the east slope of Red Mountain near Rossland, B.C.

MACLEOD GOLD AND SILVER MINING CO., Limited.

Incorporated in British Columbia 2nd April, 1897. Authorized Capital, $1,000,000 in shares of a par value of $1.00.

Directors:

S. B. Steele. F. Steele. T. M. Gibson.

Head Office: Kaslo, B.C.

Owns and is developing the Little Mamie, Lady of the Lake and Hamburg mineral claims, 1½ miles from Ainsworth, British Columbia.

MANITOU GOLD MINING CO.

Incorporated 1896. Authorized Capital, $500,000.

Directors:

Simeon H. Janes. W. H. Cawthra. Edmund Bristol.

Head Office: 103 Bay Street, Toronto.

Formed to carry on mining in the District of Algoma, Rainy Lake and Lake of the Woods. Owns and is developing H. P. 387, known as the Independence mine, situated between the Upper and Lower Manitou lakes Manitou district, Ontario. A ten stamp mill is to be erected.

MAYFLOWER GOLD MINING CO.

Incorporated 16th April, 1896. Authorized Capital, $1,000,000 in $1.00 shares.

Directors:

A. G. Avery. W. R. Rust. A. G. Hiscock. F. E. Snodgrass. George T. Crane.

Head Office: F. E. Snodgrass, Sec.-Treas., Spokane, Wash.

Mines Office: F. C. Loring, M.E., Rossland, B.C.

Owns and operates the "Olla Podrida" mineral claim, located about one mile south of the town of Rossland, in the Trail District, Province of British Columbia.

MAJESTIC GOLD MINING CO., Limited.

Authorized Capital, $1,500,000 in shares of $1.00.

Officers:

S. H. C. Miner, President. | George W. Wooster, Treasurer.
Jay P. Graves, Vice-President. | A. L. White, Secretary.

Directors:

S. H. C. Miner. A. T. Gault. W. A. Matley. C. E. Gault. A. L. White, all of Montreal; J. F. Hemenway, Greenwood, B.C., and W. Yolen Williams, of Rossland, B.C.

Mine Office: Central Camp, Kettle River District, B.C.

Head Office: 60 Canada Life Building, Montreal.

Owns and is developing the Lexington, City of Denver, City of Montreal and Oregon Fraction mineral claims, located at Central Camp, Kettle River Mining Division.

MANNAMEAD GOLD MINING CO., Limited.

Incorporated in British Columbia, 22nd February, 1897. Authorized Capital $1,500,000 in shares of a par value of $1.00.

Officers:

Alexander R. McLennan, President.
Christopher McDonell, Vice-President. F. Stapleton Hobbs, Secretary.
J. E. Crane, Treasurer.

Head Office: Rossland, B.C.

Owns and is developing the Carlisle, Mabel and Burwick mineral claims situated on the North Fork of Salmon River, British Columbia.

MAPLE LEAF MINING AND DEVELOPMENT CO., Limited.

Incorporated in British Columbia 11th February, 1897. Authorized Capital, $1,000,000 in shares of $1.00 each.

Directors:

Michael Costello. Wm. Rickey. Mark S. Rose.

Head Office: Frank Fillion, Secretary, Vancouver, B.C.

Formed to acquire the following mineral claims:—Maple Leaf, situate on 49 Creek, 7 miles from Nelson; Santa Maria, St. Anthony, Henry and Erin, situate on Phillips' Arm; Monocracy, situate on Keat's Island; Angola, situate on Lynn Creek; Fall Creek; The Star, situate half a mile north of Eagle Harbor; St. Mary, situate on Gambier Island; and St. John.

MARGURETE GOLD MINING AND SMELTING CO., Limited.

Incorporated in British Columbia 13th January, 1897. Authorized Capital, $1,000,000. Shares, $1.00 each.

Directors:

Frank W. Hart.
Wm. B. Townsend.
Henry J. Williams.
John A. McRae.
John A. Campbell.
Edward White.
Wm. H. Gordon.
Sydney Stride.
John Graden.
Wilson Pyper.

Head Office: Edward White, Secretary, Rossland, B.C.

Formed to acquire the Margurete, St. Luke and St. Jacob mineral claims situate on the west side of the north fork of the Salmon River, in the Nelson Mining Division of West Kootenay District, British Columbia.

McDOUGALL & CO.

Estate late John McDougall.
Rc ert Cowans, Montreal.

Head Office: Imperial Building, Place d'Armes Square, Montreal.

Works: Drummondville, Que.

Own an extensive a:ea of bog iron ore territory, and operate a charcoal furnace plant, at Drummondville, Que. Two furnace stacks, both built of stone, 35 ft. high; capacity about 6 tons per day each. At present the whole of the output is used in the manufacture of car wheels at the company's works in Montreal.

McGOUN GOLD MINING CO. OF PARRY SOUND, ONT.

Capital, $1,000,000. Shares $1.00 each.

Dire ors:

Thos. McGoun, Sr. | H. N. Crossley. | David MacFarlane.
P. McCurry. | Wm. R. Beatty. | Donald W. Ross.
James Calder.

Head Office: Parry Sound, Ont.

MEGATHERIUM GOLD MINING CO. OF JACKFISH, ONT., Limited.

Capital, $100,000. Shares, $1.00 each.

Directors:

Chas. B. Jackes. | J. M. Staebler.
Thos. Hunter. | C. R. S. Dinnick.
B. K. Burden.

Head Office: Toronto, Ont.

Formed to take over a certain mining property, situated at Jackfish, in Thunder Bay District, Ontario, and known as A. L. 227, and to carry on in all its branches the business of a mining, milling, reduction and development company.

MENOMINEE AND MARINETTE HYDRAULIC GOLD MINING CO., Limited.

Registered in British Columbia, 22nd April, 1897. Authorized Capital, $600,000, in shares of a par value of 25 cents.

Head Office: Menominee, Mich.

Canadian Office: R. J. Sawyer, Quesnelle, Cariboo, B.C.

This Company owns and is developing the Garibaldi Hydraulic claim, on Hardscrabble Creek, Cariboo District, British Columbia. The Company began operations by running a drain tunnel from Willow River, 1,200 feet in length, to tap the deep channel of Hardscrabble Creek. Work has been carried on continuously, except when the water supply gave out in the winter seasons; and from the time the workings reached bed-rock in the channel, gold has been taken out. The last ground worked was paying, and was improving as the drive advanced.

MICA AND MINING CO. OF ONTARIO, Limited.

Incorporated April 28th, 1897. Authorized Capital, $75,000, in shares of $100 each.

Directors:

H. Thorne, Toronto, Ont.	J. J. Warren, Toronto, Ont.
F. P. Brazill, " "	J. C. Paisley, " "
B. J. Thorne, " "	R. K. Sproule, " "

Head Office: Horace Thorne, Toronto, Ont.

Formed to carry on in all its branches the business of a mining, milling, reduction and development company.

MICA MANUFACTURING CO., Limited.

Registered 11th February, 1897. Authorized Capital, £80,000, in shares of £1, of which £66,135 has been subscribed and called up, including 6,000 shares issued to vendor.

Directors:

Sir S. Canning.	Sir W. R. Ogilvy.
J. S. Green.	Sir J. Rivett Carnac.

MICA MANUFACTURING CO.—Continued.

Head Office: Tower Chambers, Finsbury Pavement, London, E.C.

Canadian Office: Ottawa, Ont.

Owns and operates the Lake Girard group of mica and phosphate properties in Ontario and Quebec, comprising an area of about 1,700 acres. The vendor received £3,000 in cash and 6,000 shares.

MICHIGAN GOLD MINING AND DEVELOPMENT CO., Limited.

Incorporated in British Columbia, 30th March, 1897. Authorized Capital, $1,500,000, in shares of a par value of $1.00.

Officers:

Colin McLachlan, President.
J. W. Heisner, Vice-President. John L. Black, Secretary.
Alvin Neal, Treasurer.

Head Office: Alvin Neal, Port Huron, Mich.

Canadian Office: Rossland, B.C.

Owns and is developing the Bloomer, Black Eagle No. 1, Oneida, Rabbit Foot, Kathleen and Annie L. mineral claims, located on Murphy Creek, Sophie Mountain, West Kootenay, British Columbia.

MIKADO GOLD MINING CO., Limited.

Registered 15th July, 1896. Authorized Capital, £45,000, in shares of £1 each; 36,207 shares have been issued and are fully paid (including 30,000 credited as paid.)

Directors:

Col. Engledue, Chairman.
A. J. Weber. James Reid. A. L. Mather.

Head Office: C. F. MacNicol, Secretary, 79 Gracechurch St., London, E.C.

Mines Office: Mikado Mine, via Rat Portage, Ont.

Formed to adopt and carry into effect an agreement made between the South African General Development Syndicate, Limited, of the one part, and

MIKADO GOLD MINING CO.—Continued.

the Mikado Gold Mining Company, and to carry on mining in the Districts of Rainy River, Thunder Bay, and Algoma, Province of Ontario. At date owns and operates mining locations D 147, 148, 149, 200 and 201, comprising respectively, 40, 46, 15, 72 and 114 acres at Shoal Lake, Lake of the Woods, Ontario, on which is situated the Mikado gold mine worked by the company. Vein worked averages 8 feet; equipped with 20 stamp battery (steam) and suitable mining plant. The purchase consideration for the claims D 147, D 148 and D 149, containing about 100 acres, was £30,000, in fully paid shares. The company was promoted by the vendors, the South African General Development Syndicate Limited.

The accounts to the 30th September, 1897, submitted on 11th January, 1898, showed a credit for profit and loss account of £2,663 18s. 5d.

The battery commenced crushing on 9th August, 1897, and up to 30th September 1,470 tons of ore were treated, which produced 2,413 ozs., being 1 oz. 13 dwts. per ton, of the value of $35,628.

Official returns of the bullion produced by the company since 1st January, 1898, to 30th June, 1899, are as follows:—

1898.

January	462 oz.		August	265 oz.
February	550 "		September	134 "
March	730 "		October	227 "
April	444 "		November	250 "
May	169 "			*74 " cyanide.
June	240 "		December	393 "
July	251 "			*74 " cyanide.

1899.

	From cyanide.			From cyanide.
January	407 oz.	103 oz.	April	334 oz. 142 oz.
February	316 "	100 "	May	313 " 148 "
March	236 "	175 "	June	288 " 304 "

*Cyanide

MIKADO PENINSULA GOLD MINING AND DEVELOPMENT CO. OF ONTARIO, CANADA, Limited.

Incorporated 1898, under the Ontario Mining Companies Incorporation Act.
Authorized Capital, $100,000, in shares of a par value of $1.00.

Officers:

J. H. Ross, President.
Walter Ross, Vice-President. Capt. D. T. Ferguson, Secretary-Treasurer.

Head Office: Rat Portage, Ont.

MIKADO PENINSULA CO.—Continued.

This company has been formed to prospect and acquire mining claims, develop and work the same, and generally to carry on the business of exploration and mining in the District of Western Ontario, including the growing camps of Lake of the Woods and Shoal Lake. It has acquired mining location known as C. R. 72, containing 66 acres, more or less, situated in the Mikado Peninsula, of the Lake of the Woods, distant about 22 miles south-west of Rat Portage.

MILLER CREEK MINING CO., Limited.

Incorporated under the Laws of the State of Washington, and registered in British Columbia, 23rd February, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Directors:

A. J. Ross. | W. C. Jones. | H. C. Bell.
J. M. Armstrong. | C. H. Thompson. | E. J. Field.
F. A. Davis.

Officers:

C. H. Thompson, President. J. M. Armstrong, Vice-President.
A. J. Ross, Treasurer. H. C. Bell, Secretary.

Head Office: 311-312 Hyde Block, Spokane, Wash.

CANADIAN OFFICE:

E. M. Sandiman, Attorney, Sandon, B.C.

Owns and is developing three claims known as the New Springfield, Sampson, and Wonderful Fraction, comprising in all about 130 acres of mineral land, directly adjoining the Wonderful Group Mining Company's property in Slocan Mining District, West Kootenay, B.C.

MINERAL HILL GOLD MINING CO., OF ALBERNI, Limited.

Incorporated 1896. Authorized Capital, $750,000.

Directors:

A. A. Davidson, Victoria. | Lawrence Goodacre, Victoria.
W. A. Dier, Victoria. | W. K. Leighton, Nanaimo.

Head Office: Victoria, B.C.

Formed to acquire and work the Standard, Daisy, Queen of Diamonds, Lucky Boy, and Northern Light mineral claims, situate in the District of Alberni, Vancouver Island.

MINERAL KING MINING AND DEVELOPMENT CO. OF ONTARIO, Limited.

Incorporated 26th May, 1897. Authorized Capital, $77,000, in shares of $1.00 each.

Directors:

W. T. Strong, London, Ont.
A. H. Brown, London, Ont.
G. B. Kirk, London, Ont.
E. Meredith, London, Ont.
C. B. Hunt, London, Ont.
S. J. Southcott, London, Ont.
G. H. Maurer, Toronto, Ont.

Head Office: London, Ont.

Formed to carry on in all their branches the operations of a mining, milling, reduction and development company.

MINERAL PRODUCTS CO.

Organized under the Laws of the State of New York, 1897.

Directors:

Hon. F. C. Sayles, Pawntucket, R.I.
F. C. Sayles, Jr., Providence.
Russell P. Hoyt, General Manager.
Dr. E. F. Ward, New York.
N. M. Langdon, Superintendent.

CANADIAN OFFICE:
Hillsboro, N.B.

Owns and operates an area of manganese deposits near Hillsboro, New Brunswick. The company is engaged in the manufacture of ferro-manganese, and a lease has been entered upon for the use of the charcoal furnace plant of the Pictou Charcoal Iron Co. at Bridgeville, Nova Scotia.

MINERALS DEVELOPMENT OF BRITISH COLUMBIA, Limited.

Head Office: A. M. M. Forbes, Secretary, 7 Queen St., London, E.C.

Registered in England, 22nd March, 1897, to prospect, examine and explore mines and lands in British Columbia or elsewhere. The Authorized Capital is £10,000, in 10,000 shares of £1 each: 7,450 shares have been issued, 2,600 being issued credited as fully paid, and 4,850 having 6s. 8d. per share called up.

MINES CONTRACT AND INVESTIGATION CO. OF TORONTO, Limited.

Incorporated 12th May, 1899. Authorized Capital, $1,000,000, in shares of $5.00.

Directors:

J. N. Cheeseworth, President.
Henry Read. G. H. Sackman. F. A. Schmieterdorf. S. N. Robinson.

Head Office: Henry Read, Sec-Treas., Canada Life Building, Toronto, Ont.

MINES DEVELOPMENT CO., Limited.

Authorized Capital, $2,500,000, in shares of $1.00.

Officers:

George McHugh, M.P., President.
Edmund E. King, M.D., 1st Vice-President.
F. R. James, 2nd Vice-President. F. A. Mulholland, Treasurer.
Allan C. Thompson, Secretary and Manager.

Directors:

George McHugh, M.P., Lindsay.	Edmund E. King, M.D., Toronto.
F. R. James, Toronto.	Arthur Thompson, M.D., "
Louis W. Mulholland, Rossland.	R. L. Johnston, "
Allan C. Thompson, Toronto.	F. A. Mulholland, "

Donald C. Ross.

Head Office: 68 Victoria Street, Toronto, Ont.

Formed for the purpose of acquiring mining properties by prospecting, purchase or otherwise, and to develop and deal in the same and generally to carry on all or any business connected with mining, etc.

MINES DEVELOPMENT TRUST AND GUARANTEE CO., Limited.

Incorporated 28th April, 1898. Authorized Capital, $50,000, in 50,000 shares of a par value of $1.00.

Directors:

A. Marsh.	Jno. S. Clute, jr.	H. Girdwood.
James Hunter.	E. M. Ruff.	Geo. Parker.

Head Office: Charles E. Benn, Secretary, Rossland, B.C.

MINES DEVELOPMENT TRUST AND GUARANTEE CO.—Continued.

Formed to acquire, manage and develop mineral claims and mining properties, and after development thereof to a certain or limited extent, to sell, bond or othewise dispose of the same, etc. The company is at present developing the Swansea mineral claim, situated on Windermere Mountain, Windermere Mining Division, British Columbia. The Mines Report, (B.C.) 1898, says of the property :—

"The country rock is a quartzose limestone, which appears to be much faulted and broken, there being evidence of a series of faults running N. 45° W., or almost with the range of hills. Along the line of one of these faults there is evidence of a crushing effect, which extends a short distance into the country rock on either side, leaving the rock still in place, but much crushed. It would seem as if this crushed material had been more or less cemented with lime which has filtered through it; the waters in the same way bringing copper in solution, which, deposited in the crushed zone, now exists as blue and green carbonates, occurring in masses, mixed with the broken rock. These masses are sometimes of considerable size, but, as yet, have not shown any continuity. Some 20 to 30 tons of selected ore were on the dump at the time of my visit, of which I took a sample, and found it to assay 17.5 per cent. copper, but with no gold or silver values."

MINES TRUST OF BRITISH COLUMBIA, Limited.

Head Office: Hubert Akers, Secretary, 11 Abchurch Lane, London, E.C.

Registered in England, 31st July, 1896, to search for and obtain information in regard to mines, claims, districts and localities in British Columbia or elsewhere. The Authorized Capital is £20,000, in 20,000 shares of £1 each: 13,000 shares have been issued, and 3s. per share called up.

MINNIE-HA-HA GOLD MINING & MILLING CO. OF BRITISH COLUMBIA, Limited.

Registered in British Columbia, 29th January, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

Prof. Henry Montgomery, President.
Capt. J. F. Ramsay, Vice-President. Alexander K. Roy, 2nd Vice-President.
Major Ainsley Megraw, Manager.
Hiram Kitely, Secretary-Treasurer, Toronto.

MINNIE-HA-HA GOLD MINING CO—Continued.

Directors:

Prof H. Montgomery, Toronto.
Capt. J. F. Ramsay, Toronto.
Alexander K. Roy, Toronto.
S. G. Detchon, Toronto.
Walter Wells, Waterloo.
Capt. J. A. Currie, Toronto.
W. R. Barnett, Paisley.
A. G. Seaman, Wiarton.
J. L. Ballanytyne, Tiverton.
G. K. Mills, B.A., Stratford.
Barthelemi Verret, Quebec.

Mines Office: Major A. Megraw, Camp McKinney, B.C.

Owns and is developing the Minnie-ha-ha gold claim, at Camp McKinney, Osoyoos Mining Division, British Columbia. The work done, at date of report, consists of a working shaft 103 feet, with 24 feet of cross-cutting and 185 feet of drifting. The mine is furnished with a double cylinder hoist, steam pump and drills. There are good bunk-houses, a boarding house, and an assay office, etc., on the properties. A 10 stamp battery was to be installed July, 1899. The character of the ore is free-milling and concentrating, the vein being white quartz, carrying iron pyrites and galena, with a little blende and chalcopyrite.

BALANCE SHEET.

(*To 31st December*, 1898.)

CAPITAL AND LIABILITIES.

Capital—			
1 The number of shares, 1,000,000.			
2 The amount paid per share $1.00—			
Shares issued 840,455			
Shares sold, not delivered 106,750			
Shares Treasury 52,795			
		1,000,000	
3 Arrears on calls.....			
4 Forfeited calls.....			
			$1,000,000 00
Debts and Liabilities of the Company:			
5 Loans on mortgages or debentures			
6 A—Acceptance			
B—Debts to tradesmen			
C—Law expenses			
D—Interest.			
E—Unclaimed dividends			
F—Due to employees.....	$171 00		
G—Poll tax.....	6 00		
Balance on shares acquired	3,625 00		
		3,802 00	
Surplus—Balance of Assets in excess of Liabilities.....		$25,469 25	
			$1,029,271 25
			$1,029,271 25

MINNIE-HA-HA GOLD MINING CO—Continued.

PROPERTY AND ASSETS.

Property held by the Company.			
7 Immovable property—			
A—Freehold land, Minne-ha-ha.	$999,993 00		
Freehold land, Golden Crown Fraction	233 75		
Freehold land, Cariboo Fraction	45 00		
Freehold land, Sinbad Fraction	6 00		
B—Freehold buildings			
C—Leasehold			
		$1,000,277 75	
8 Moveable property—			
A—Stock-in-trade (furniture)	$20 00		
B—Plant	2,642 48		
		2,662 48	
Debts—			
9 Debts secured	11,675 00		
10 Debts unsecured			
11 Debts considered doubtful			
		11,675 00	
Cash and Investments—			
12 Bank of Montreal, Toronto	$12,412 66		
Bank of Montreal, Vernon, B.C.	2,243 36		
		14,656 02	
			$1,029,271 25
			$1,029,271 25

EXPENSE.

Dr.

Amount brought forward from 1897		$9,045 25
Office stationery, &c., 1897		118 25
General expense, 1898	144 22	
Annual meeting, 1898	15 00	
License, Province of Ontario	250 00	
License, B.C. renewal	100 00	
Water right	5 00	
Travelling expenses	250 00	
Directors' expenses	82 90	
Exchange and interest	29 72	
Manager's salary	600 00	
Auditors' salary	25 00	

MINNIE-HA-HA GOLD MINING CO.—Continued.

Secretary's salary	$120 00		
Law costs	148 35		
Labour account	2,055 27		
Mine supply account	1,151 32		
Boarding account	836 07		
Assaying account	3 50		
Advertising	15 00		
		$5,831 35	
Balance surplus carried forward		25,469 25	
			$4,464 10
			$40,464 10

REVENUE.

Cr.

Treasury sales account—1897	$14,300 35		
Sales during 1898	26,127 75		
		$40,428 10	
Transfer fees account		11 00	
Rent account, Donald, Bros.		25 00	
			$40,464 10
			$40,464 10

MINNESOTA SILVER MINING CO, Limited.

Registered in British Columbia, 24th August, 1894. Authorized Capital, $1,000,000.

Officers:

W. H. Yawkey, President.
P. J. Hickey, General Manager.

CANADIAN OFFICE:
Sandon, B C.

Owns the Ivanhoe, Elgin, Bendigo, Morning, Great Eastern, Tom Bowling, Admiral Nelson, Transit, and Big Kariawha mineral claims, situated on the summit of the ridge between South Fork of Carpenter Creek and Four Mile Creek, two miles S.E. of the town of Sandon, British Columbia. On the Ivanhoe the *Mines Report* for 1898, says: "Has been doing development for eighteen months; has large amount of milling ore blocked out; contemplates erection of a mill in 1899."

MIOCENE GRAVEL MINING CO. OF CARIBOO, Limited.

Incorporated in British Columbia, 20th January, 1897. Authorized Capital, $300,000, in shares of $10.00 each.

Directors :

R. H. Campbell. F. J. Coulthard. Gordon Drysdale.

Mines Office : R. H. Campbell, Harper Camp, Cariboo District, British Columbia.

Formed to acquire the placer mining claims in the Quesnelle Mining Division of the Province of British Columbia, known as the Diamond, the Cyclone, the Harper Lake, the Beaver Lake, the Mountain Tip, the Slide, the Capitol, El Capitan, the Junction, the Beaver Dam and the Lava Point ; and also to acquire by gift, preemption, purchase, exchange or any other lawful means, any other placer mining claims or mineral claims or leases or other mining property in the Province of British Columbia.

Mr. Campbell, on studying the condition at Harper's Bar, and recognizing the fact that the shafts sunk here and all the other workings betrayed the existence of a large ancient and gold-bearing channel, running east and west through this flat lying country, having secured the ground lying on the west of the Harper lease, began the sinking of a shaft 4 x 8 feet, to exploit this channel. As the values are thought to be along the rim-rock and bottom of the channel, it was hoped that this shaft would reach the bottom of the channel, but at a depth of 250 feet the shaft was still in the blue, hard gravel, showing an unexpectedly great depth. For the first 65 feet the shaft passed through hard boulder clay, that near by forms one of the banks of the Horsefly, and then into the great deposit of gravel, in which is a large amount of quartz pebbles and small boulders or cobbles, perfectly water-worn, and a small amount of very fine gold. At 250 feet a run of fine sand checked sinking, as the pumps and hoisting plant were hardly adequate, so great a depth not having been anticipated ; so sinking was stopped until heavier pumps could be installed, although the flow of water is small, or about 35 gallons per minute. Instead, after putting in a pump station at 180 feet, a cross-cut was started and run to what may be the rim-rock. If, on reaching bed-rock, gravel is found rich enough to pay for drift mining, having ascertained the exact position of the gutter or lowest point of the channel, a working shaft can be sunk with proper hoists and pumps for the water, that promises to be light in flow, as the boulder clay keeps out all surface water, and it is possible, in the Beaver Lake valley, to run a long tunnel to drain and exploit a long stretch of this old river course, after

MIOCENE GRAVEL MINING CO.—Continued.

thoroughly prospecting with drilling machines, which might have been used to great advantage before the present work was undertaken. There are no signs of a cement gravel so far to be seen.

At date of report the company was sinking a 3-compartment shaft, two hoisting and one pumping, each 4 x 5 in clear, well timbered. The machinery equipment comprises :—Boilers, three, aggregating 200 h.p.; hoisting engine, one single, 24 in. drum; pumps, two Knowles sinking, 7 in. plunger, 14 in. cyl., having a capacity of 250 gallons per minute; two Knowles sinking, 4 in. plunger, 8 in. cyl., having a capacity of 100 gallons per minute; two Worthington station pumps having a capacity of 490 gallons per minute; one Knowles Special, for station, having a capacity of 200 gallons per minute; one Valley, double plunger, having a capacity of 75 gallons per minute.

Electric lighting.—One Eddy dynamo, 100 lights.

MIRA MONTE MINING CO., Limited.

Incorporated in British Columbia, 31st January, 1898. Authorized Capital, $100,000, in shares of a par value of $1.00.

Head Office : Lytton, B.C.

Owns and is developing the California group of mineral claims, near Gladwin, Vale Mining Division, British Columbia. A tunnel, in at date of report 200 feet, is being driven, and is expected to reach the ledge at less than 250 feet. A stamp mill will be put up.

MISSISSAGA RIVER GOLD MINING CO. OF ONTARIO, Limited.

Incorporated January 13th, 1897. Authorized Capital, $490,000, in shares of $1.00 each.

Directors :

Dr. T. McCort, Thessalon, Ont.	T. E. Williams, Toronto, Ont.
R. Musgrove, Toronto, Ont.	J. S. Dobie, C.E., Toronto, Ont.

Formed to carry on in all its branches the business of a mining, milling, reduction and development company.

MODSTOCK MINING CO., Limited.

Incorporated October 9th, 1896. Authorized Capital, $300,000, in shares of $100.00.

Directors:

R. Dickson, Antigonish, N.S., President.
Hon. F. P. Thompson, Fredericton, N.B., Managing Director.
Williard Kitchen, Fredericton, N.B. W. Whitehead, Fredericton, N.B.
Robert Black, Sackville, N.S.

Head Office: C. E. Harris, Secretary, Antigonish, N.S.

Mines Office: J. H. Tibbetts, Resident Engineer, Forest Hill, Guysboro County, Nova Scotia.

Owns and operates 57 gold areas at Forest Hill, Stormont District, Province of Nova Scotia. Equipped with 10-stamp battery; weight stamps, 850 lbs.; drop, 93 p.m.; and suitable mining plant. The output of the mine during the past three years has been: 1895, 1,676 tons rock crushed, (six month's working), yielding 998 ozs. 4 dwt.; 1896, 3,580 tons of rock crushed, yielding 1,854 ozs.; 1897, 3,884 tons crushed yielded 2,214 ozs. 11 dwt.; 1898, 4,076 tons yielded 2,631 ozs. 3 dwt.

The present owners, who acquired the property from a company of the same name, on 1st November, 1898, have considerably extended the underground development of the property since taking possession.

MOHAWK MINING CO. OF RAT PORTAGE, Limited.

Incorporated 21st April, 1897. Authorized Capital, $495,000, in shares of $1.00 each.

Directors:

C. W. Clark, Winnipeg, Man.
H. Byrnes, Winnipeg, Man.
A. Ney McCutcheon, Winnipeg, Man.
D. R. Dingwall, Winnipeg, Man.
W. D. Pettigrew, Winnipeg, Man.
J. R. Haney, Winnipeg, Man.
R. Nunn, Winnipeg, Man.

Formed to carry on in all its branches the business of a mining, milling, reduction and development company.

MOIR GRANITE COMPANY.

Incorporated 1891. Authorized Capital, $100,000, in shares of $25.00.

Directors:

D. W. Moir, Stanstead, Que. | S. Stevens, Stanstead Plain, Que.
G. H. House, Beebe Plain, Que. | D. W. Davis, Derby Line, Vt.
John T. Foster, Derby Line, Vt.

Head Office: George H. House, Secretary-Treasurer, Beebe Plain, P.Q.

Formed for the purpose of quarrying and dealing in granite and other stone, etc. The company's property at date, contains 200 acres on lot 1 in the 4th range, and 80 acres (on lots 3, 4 and 5) in the 5th range of Stanstead, Que. Thirty to 40 men employed. Quarries situate 2½ miles from Beebe Plain and Stanstead Junction, on the line of the Boston and Maine Railway. Seventy persons employed. Machinery equipment comprises two 50 h.p. boilers, Rand steam drills, eight derricks, six steam polishing machines, one turning lathe, etc.

MOLLY GIBSON MINING COMPANY, Limited.

Authorized Capital, $2,000,000, in shares of a par value of $1.00.

Officers:

Hon. F. Peters, Victoria, B.C., President.
Lieut. Col. Ray, Port Arthur, Ont., Vice-President.
C. A. French, Sherbrooke, Que., Secretary-Treasurer.

Directors:

Sir Hugh J. Macdonald, Winnipeg, | W. Noble, Nelson, B.C.
Rufus H. Pope, M.P., Cookshire, P.Q. | Lieut. Col. Ray, Port Arthur.
E. P. Davis, Vancouver, B.C. | Hon. F. Peters, Victoria, B.C.

Head Office: Victoria, B.C.

Mine Office: B. White, Mine Manager, Nelson, B.C.

This company owns and is developing the Molly Gibson property, consisting of three full claims and comprising an area of 52½ acres and situated at a point about 12 miles from Nelson, British Columbia. Opened by tunnel, —in at date of report, 1,022 feet.

In the spring of 1896, Col. Ray of Port Arthur and one Riley entered into a grub stake arrangement with a prospector by the name of Patrick W.

MOLLY GIBSON MINING CO.—Continued.

George to prospect for them. The arrangement was that whatever George found should be located for Ray and Riley and that the two, with George, were each to have a third interest.

George's story is that he was one evening on the head waters of Kokanee Creek and that he found Richard W. Willey there, that Willey had completed the locations of the Aspen, Florence, and Molly Gibson,—that he went with Willey the next morning to see the properties and that he bought the Aspen and Molly Gibson from Willey and they were located and recorded —the Aspen and the Molly Gibson in the name of George and the Florence in the name of Willey. George persisted that he was not the discoverer but that Willey discovered the properties.

The news of the rich discovery soon spread and Mr. Pope who was in the west at the time went in company with a man by the name of Green and secured bonds from George and Willey, Green assisting to procure the bonds.

Col. Ray and Riley hearing that a rich discovery had been made and that George was connected with it, began to investigate, and came to the conclusion that there was a conspiracy between George and Willey to defraud them, and that George, and not Willey, discovered the property. In the meantime Riley sold out his third interest in the grub stake arrangement to a Winnipeg syndicate, at the head of which is Mr. Phippen, of the firm of McDonald, Tupper & Co. Ray and and the Winnipeg people brought suit against Pope, George and Willey to set aside Pope's bond. About this time a man by the name of Calanan, and two associates, located over George and Willey's location and entered a suit against George, Willey, Pope, Ray, and Riley to set aside Willey and George's locations, have them declared illegal, and have their own locations declared good. About the same time Green brought suit against Pope for one-half interest in the bonds, claiming that Pope agreed to give him a half interest. The suit of Calanan et al was brought to trial in Vancouver in May and action dismissed. The Ray suit and the Green suit was set down for trial at Nelson, June 20th. The parties being all brought together, settled out of court.

The settlement was as follows :—

Pope took one-half; Ray, one-quarter; and the Riley interest, one-quarter. They agreed to share in giving Bruce White of the Slocan Star one-tenth interest, White having acquired Green's interest. They also agred to give a small sum to the Calanan interest to procure a full withdrawal of claim and litigation.

The present syndicate which represents all the litigants is now in full possession of the property and working it with a large force of men under the management of Bruce White of the Slocan Star.

MONARCH GOLD MINING CO., Limited.

Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

Ernest Kennedy, President.
C. A. Carmody, Vice-President. R. A. O. Hobbes, Sec.-Treas.
Rienzi W. Macfarlane, Superintendent and Consulting Engineer.

Directors:

Wm. Kissock, Montreal, Que.
T. Herchel Jones, Swansea, S. Wales. | Ernest Kennedy, Rossland, B.C.
C. A. Carmody, Ymir, B.C. | S. E. Coulter, Ymir, B.C.

Head Office: Rossland, B.C.

Owns and is developing the Monarch group of mineral claims, consisting of five full claims of 52 acres each, and located within four miles of Hall Siding, N.F.S. R'y., and about fifteen miles from the Town of Nelson, B.C. Opened by shaft down 100 feet. At date of report a contract was being let to drive a tunnel 200 feet.

MONITA GOLD MINING CO. OF BRITISH COLUMBIA.

Incorporated 1896. Authorized Capital, $1,000,000, in shares of $1.00.

Directors:

George Gooderham. | Thos G. Blackstock.
W. H. Beatty. | W. G. Gooderham.
Albert E. Gooderham.

Head Office: E. J. Kingstone, Secretary, Gooderham Building, Toronto.

Mine Office: J. B. Hastings, Rossland, B.C.

Owns the Monita mineral claim, located on Red Mountain, near Rossland, British Columbia. Opened at date of report by two shafts down, respectively, 100 and 200 feet.

MONTAGUE MINE, Limited.

Head Office: R. Stanley Williams, Secretary, 16 Copthall Avenue, London, E.C.

Registered in England, 5th November, 1897, to acquire and work the Montague mine, situate on the North Fork of the Illecillewaet River and Downie Creek, West Kootenay District, British Columbia. Authorized Capital, £100, in 100 shares of £1. Company only registered to protect title, pending development.

MONTANA GOLD MINING CO., Limited.

Registered in British Columbia, 2nd April, 1897. Authorized Capital, $1,500,000, in shares of $1.00.

Officers:

Dr. E. Bowes, Rossland, B.C., President.
D. W. Higgins, Vice-President. Charles S. Carpenter, Secretary.
W. F. Tye, C.E., Secretary and Manager.

Canadian Office: Rossland, B.C.

Head Office: Spokane, Wash.

Owns the Montana No. II mineral claim, situated on Murphy Creek, about six miles from Rossland, British, Columbia.

MONTEZUMA GOLD MINING CO., Limited.

Capital, $1,000,000, in shares of $1.00 each.

Directors:

Robert C. Macdonald. | Jno. C. Houghton.
George E. Toms. | Joseph W. Boyd.
Norman L. Jackson.

Head Office: Rossland, B.C.

Formed to acquire a certain mineral claim known as the Retaliation mineral claim, situate on Deer Park Mountain, near the Town of Rossland, in the District of West Kootenay, British Columbia.

MONTREAL AND KOOTENAY MINING CO., Limited.

Incorporated 1891. Authorized Capital, $20,000.

Directors:

E. B. Greenshields, President.

P. A. Peterson. | R. T. Hopper.
Edwin Hanson. | R. Wilson Smith.

Head Office and Managing Directors: R. T. Hopper & Co., 58 Canada Life Building, Montreal, Que.

MONTREAL AND KOOTENAY MINING CO.—Continued.

Formed to acquire and work mines in the Province of British Columbia and elsewhere in the Dominion. The company owns the Tam-o-Shanter and South Tam mines, situated at Hendryx Camp, on the east side of Kootenay Lake, opposite the town of Ainsworth, B.C. Samples of the ore taken out from the different workings run from 80 to 480 ounces of silver. A sample carload from the surface workings, treated by the Tacoma Smelting Company, ran 82 3-10 ounces to the ton. Gold is showing in the ore, with depth, and samples taken from the shaft at 35 feet in depth have shown gold contents from $3.20 to $9.60 per ton.

MONTREAL BOUNDARY CREEK MINING CO., Limited.

Incorporated under the Laws of New Brunswick, 1899. Authorized Capital, $2,000,000, divided into 2,000,000 shares of $1.00.

Officers :

Hon. A. W. Ogilvie, President.
W. Barclay Stephens, Vice-President. W. Jacques, Secretary-Treasurer.

Directors :

Hon. A. W. Ogilvie.	W. Barclay Stephens.	Hon. Richard Turner.
James G. Ross.	W. L. Hogg.	Herman Young.
	T. W. Horn.	

Head Office : 47 St. Francois Xavier Street, Montreal.

Formed to acquire and work the Sunset, Crown Silver, C.O.D. and Florence Fraction, a cluster of four mining locations adjoining each other, and located in Deadwood Camp, Boundary Creek District, and distant about three miles from Greenwood City, British Columbia. On the C.O.D. and Crown Silver locations shafts have been sunk to a moderate depth. The efforts of the company, however, have been largely concentrated upon the development of the Sunset property to a more advanced stage, and results therefrom have been of a most gratifying character. A shaft to the depth of over 200 feet has been sunk, and 1,175 feet of tunnelling done, and the main lode of this rich property penetrated at different places. At a depth of 100 feet a body of ore 70 feet wide was pierced, and subsequent development has shown that this body is continuous. Other large bodies of ore were met with at different points, all of which were of a character inexpensive to mine and requiring only easy treatment. From a numerous collection of samples assayed, the average result was a value of $17.60 in gold and copper to the ton, taking copper at a value of 11 cents a pound.

MONTREAL GOLD FIELDS, Limited.

Authorized Capital, $800,000, in shares of a par value of Twenty-five cents.

Directors :

George A. Greene, Montreal, President.
Robert Jaffray, Toronto, Vice-President.
W. J. Morrice, Montreal, Treasurer.
Sir Thomas Selby Tancred, Baronet, London, England.
Hon. William McDonald, Cape Breton, N.S.
E. D. Marceau, Montreal.
Clarence J. McCuaig, Montreal.

Head Office : Norman Binmore, Secretary, London and Lancashire Chambers, Montreal.

Mine Office : Rossland, B.C.

Formed to carry on mining, financial, and other business incidental thereto, in the Dominion of Canada. The business is to be principally directed to prospecting, to developing mines in their earlier stages, and to supplying working capital to enable developed mines to be brought rapidly to a dividend-paying condition.

It owns and is developing the "Coxey" (44 acres) and "Gertrude" (17 acres) mineral claims on Red Mountain, near Rossland, B.C. The mineral worked is a contact deposit of chalcopyrite and pyrrhotite carrying copper, silver and gold. The workings at date of report comprised : One shaft, 160 feet, and one 50 feet ; drifts, 650 feet ; cross-cuts, 155 feet. The output in 1898, from development work, was estimated at 3,000 tons.

MONTREAL HYDRAULIC MINING CO. OF CARIBOO, Limited.

Incorporated 27th March, 1895. Authorized Capital, $250,000.

Directors :

F. C. Innes, President.
S. O. Richards. J. M. Browning. John Kennedy. E. B. Greenshields.

Head Office : C. C. Bennett, Secretary, Vancouver, B.C.

Mines Office : Quesnelle, Cariboo, B.C.

The company's property consists of sixteen claims, covering about two thousand acres, on the Quesnelle River, about 25 miles below the Forks of Quesnelle, in the Cariboo District, British Columbia, upon which a certain amount of development has been done and is proceeding.

MONTREAL-LONDON GOLD AND SILVER DEVELOPMENT CO., Limited.

Authorized Capital, $1,200,000, in 5,000,000 shares of a par value of 24 cents.

Officers:

Wm. Strachan, President.
Hon. A. A. Thibaudeau, Vice-President. S. H. Ewing, Treasurer.
Clarence J. McCraig, Manager.

Directors:

R. Wilson Smith.	Dr. Roddick, M.P.
David Morrice.	Robert Jaffrey.
W. J. Withall.	R. Bickerdike.

Head Office: T. James Claxton, Secretary, 180 St. James Street, Montreal.

Mines Office: Dufferin Mine, Salmon River, Nova Scotia.

This company acquired in 1897 the celebrated Dufferin gold mine, at Salmon River, Halifax County, Province of Nova Scotia. The property on which mining rights are held is in two blocks. The one on which the mine is situated comprising 365 gold areas, each 150 by 250 feet. (For history of this productive property see *Canadian Mining Manual*, 1893.) Mr. E. R. Faribault (Summary Report Geol. Survey, 1897) says: "The quartz veins worked at the Dufferin are situated on the apex of a very sharp anticlinal fold. At the main shaft the apex has a westerly and easterly pitch, which has caused a sliding and an uplift of the strata, developing large auriferous quartz veins on the crown of the saddle. These latter occur one under another in the same manner as some of those in Victoria, Australia."

MILLING PLANT.

This when completed is to be a 60-stamp mill. At present but 30 stamps are in operation, but the building is completed and prepared for the 60 stamps, and the other 30 may be added as soon as it is found desirable to complete the plant. The mill is of the standard California back to back type, with Homestake mortars and stamps weighing 1000 lbs., arranged to drop 6 inches 100 times per minute. With these conditions and adjustment, the mill has a crushing capacity through a 30 mesh screen of 4 tons per stamp per twenty-four hours. It contains all the modern automatic devices for minimizing labor, and aside from the ordinary devices used in a mill of this character, it contains certain modifications designed to effect greater capacity in crushing and a more complete amalgamation of the fine gold, a more perfect concentration of the ores.

MONTREAL-LONDON CO.—Continued.

In operation the ore is hoisted from the mines through the three compartment vertical shaft in mine cars of 17 cubic feet capacity direct to the landing deck in the hoist building. From here the "deckman" runs the loaded cars and dumps them into the receiving bin of the Rock House (24 feet distant from the shaft) and then returns the empty cars to the shaft to be lowered again into the mine. From the receiving bin the ore gravitates over a grizzley—a bar screen—the bars set with 1½-inch spaces. Such of the ore as comes from the mill fine enough to pass through this screen falls to an under chute, in which is fixed another grizzley with bars set ¾-inch apart, as the ore slides automatically over the grizzley the portion of it fine enough to pass through the ¾-inch spaces drops into the storage bin underneath properly prepared for the stamp batteries.

The portion of the ore that had been too coarse to pass through the ½-inch spaces of the grizzley first above mentioned, gravitates into the jaws of a 10 x 20 inch Blake crusher, where it is reduced to fragments, the largest of which would pass through a 1½-inch ring. The ore thus reduced falls to the under chute above mentioned, where that portion fine enough to pass through the ¾-inch grizzley falls into the storage bin beneath, and the portion too large for this purpose gravitates into a cam feeder, which feeds it in regular uniform quantities to a set of 14 x 36 inch belt driven Cornish rolls, which reduce it to desired fineness (to pass through a ¾-inch ring), when it drops it into the storage bin underneath, in which all the ore is now prepared for the stamp batteries and is ready to be transferred thereto. This completes the first stage of the milling operation, viz., *the preparation of the ore for the stamp batteries.*

The capacity of the department just described, being 12 tons per hour, or double that of the stamp batteries for the same time, it prepares while running during the day shift all the ore required by the stamps during the 24 hours.

From the rock house storage bin the prepared ore is then transferred to the storage bins behind the stamp batteries, in the following manner:—An employee, called the skipman, allows it to spout through a gate which he controls, into a self-dumping skip, which when full, he hoists by means of a friction winding drum up an incline track to a point over the battery storage bins, where it dumps and spouts to the bin behind either battery desired.

From the storage bins behind the batteries the ore gravitates through gates into improved challenge feeders, six in number, which in turn feed it automatically to the batteries as required.

In the batteries the ore is stamped to a degree of fineness determined by experiment to be sufficient to liberate the fine particles of gold from the enclosing quartz matrix. While undergoing this stamping process, a sufficient amount of water is admitted to the batteries to make the pulverized ore into

MONTREAL-LONDON CO.—Continued.

a thin easy flowing pulp. In this condition the ore issues from the batteries flowing through a steel wire cloth screen, having 900 meshes to the square inch.

Amalgamation of the now liberated gold particles is effected in the usual way, on copper plates placed inside and outside the mortars. The quicksilver being fed inside the mortars. Here a few words may be said on the process of amalgamation. The fullness of the opportunity given the now liberated gold particles to amalgamate with the quicksilver fed into the mortar will be understood, when it is considered that in each mortar measuring 54 x 11 inches in plan at the point of discharge and filled to the depth of 7 inches with thin flowing pulp, there is continually falling five 1,000 pound stamps, six inches each, 100 times per minute.

In the agitation thus produced in the pulp the quicksilver fed into the mortar becomes atomized into infinitessimal globules. Each of these being endowed with a natural affinity to attach itself to every particle of gold it comes in contact with and by its high sp. gr. to drag it down and anchor it to the amalgamating plates such gold as escapes through the battery screens without being thus caught; falls on and becomes attached to the apron plates. While the pulp now robbed of all its free gold flows on out of the mill. This briefly is the story of the mechanics of amalgamation. To return to point of operation where the digression was made, the pulp on issuing from the mortars through the wire cloth screen, having 900 meshes to the square inch, falls on the lip plates, thence flowing over these, falls on the apron plates. These for each mortar are divided into three steps with a 1½ inche of fall between each. The apron plates were thus designed, because it is believed by the writer, that these steps over which the flowing pulp is continually falling, aid to complete the amalgamation of the gold, as by the slight fall (1½ inhce) the pulp impinges against the plates and the light particles of gold brought into direct contact with them, thereby offering the fullest opportunity for amalgamation. Passing the apron plates the pulp is discharged into a dead box, which serves as a quicksilver trap. This completes the second stage of the milling process, viz., *the reduction of the ore to pulp and the amalgamation of the liberated free gold.*

The milling would now be complete, but the ores of the Dufferin carry from 2½ to 3 per cent. of arsenical pyrites which is rich in gold, and these pyrites when reduced to a pulp do not liberate their gold contents in a form favorable for amalgamation. Such gold would therefore be lost if the milling stopped here. To recover these auriferous pyrites, concentration is necessary, and for this purpose the mill is equipped with three sets of hydrometric sizers and fifteen 6-foot frue vanners, the latter divided into three sets of five each to correspond with the sets of sizers. With these the concentration of the pyrites from the pulp is effected as follows:—The pulp flowing from the dead box enters the set of sizers and is made into five classifications therein—

MONTREAL-LONDON CO.—Continued.

the coarser sands going into the first classification, and the finest slimes going into the fifth classification, while the three intermediate classifications are graded between the two extremes mentioned. Each classification then flows through a 2-inch iron pipe to a vanner especially ajdusted for its concentration. The efficiency of the vanner is greatly increased when it has to deal with only one classification of pulp. After the concentration of the auriferous pyrites from the pulp, it then being worthless, is allowed to flow to waste outside the building. This ends the third and last stage of the milling process, *the concentration* of the auriferous pyrites from the pulp. The concentrates are now stored, pending the determination of the best way of realizing their values.

Power.—The mill is operated by steam power. For this purpose a plant consisting of two 14 ft. x 54 in. horizontal tubular boilers, a feed water heater and a 16 x 42 in. Corliss engine has been installed.

Heating.—The mill and a portion of the mine building is heated by a Sturtevant fan heater. This is a most economical and satisfactory system of heating buildings of large area, it being effected by the exhaust steam from the feed water heater in the following manner:—The steam on being exhausted from the heater is conducted into a series of coils of one-inch pipe, radiating from a hollow cast iron base plate having an internal diaphram, which serves as a trap to carry off condensed water. The pipe constituting these coils is set about ½ inch apart and in sufficient number, so that their aggregate area will be so large that little or no back pressure will result against the steam exhausting from the feed water heater. These coils are enclosed in a sheet steel casing, inside of which and through and around the pipe the fan draws air, which it afterwards forces throughout the building. The fan is 6 feet in diameter, with 18 inch blades, and makes 350 revolutions per minute. The steam pipe coils yield their heat very rapidly to this immense volume of air flowing around and between them to the fan box, so much so that the steam is practically condensed, leaving the coils as a small stream of hot water. The adjustments of this system place it under perfect control for a wide range of capacity.

Lighting.—The mill, hoist and all the surface buildings, including the assay office and melting room, store offices, residences and cottages above mentioned, are lit by electricity. For this purpose a 240 16-candle power dynamo run from counter shafting from the Corliss engine is used. As supplementary in case of accident, another 120 16-candle power dynamo is ready to be started up in the hoist building, where it is connected to the high speed engine used to operate the machinery in the machine shop.

Probable Cost of Milling.—It is estimated after careful thought, that the entire cost of milling will not exceed 35 cents per ton, with the plant at present in operation, and this cost will be considerably reduced when the mill is completed and its capacity doubled.

MONTREAL-LONDON CO.—Continued.

DEVELOPMENT OF THE MINE.

In former operations the veins were worked to a length of 2,000 feet along their apex, or more properly speaking, along the strike of the anticlinal, and to depths ranging from 25 to 300 feet below the surface, this latter depth was only attained in one shaft and the stoping did not extend to this depth. The stoped out portion having only an average depth of 120 feet on the veins.

The new workings consist of two 3-compartment shafts, one vertical sunk in the neighborhood of the anticlinal axis to a depth of 325 feet. Stations are cut from this shaft at the depths of 200 and 300 feet from these stations, and cross-cuts run from these stations through the vein system. Where these cross-cuts intersect the veins, drifts run along underneath them at the depths of 100 to 200 feet below the bottom of the old workings. In these deeper workings the veins maintain their commercial value, showing in many instances increased widths and quite frequently carrying a liberal sprinkling of visible gold in streaks of the vein matter.

The vertical shaft above mentioned is to be the main working shaft of the mine. To it all the workings will be tributary, and at the various levels from it, working and pump stations for handling the mine traffic and draining the workings will be cut. The incline shaft is used for prospecting, ventilation and an additional way of entry or exit from the mine, in case of accident at the vertical shaft. It is the company's intention to vigorously prosecute the development of the vein system by the most modern methods, and comprehending this purpose, the plant and working plans are designed.

THE MINING PLANT.

The machinery of this plant was furnished by the James Cooper Manufacturing Company, of Montreal, and consists of the following:—Two Lidgerwood hoisting engines, each with double drums and reversible link motions, one having a lifting capacity of 5,000 pounds 400 feet per minute, the other of 3,000 pounds, 350 feet per minute. The larger one is set at the vertical shaft and lifts the loaded mine cars from the various levels on platform safety cages to the landing deck at the surface, from whence they go to the rock breaker. The smaller hoist is set at the incline or skip shaft, through which it hoists the skip loads of ore and waste over double tracks of steel rails, dumping them automatically into separate bins at the surface as desired. Furnishing air for the machine drills in the mine is a cross-compound condensing Ingersoll air compressor of the piston inlet type, with capacity to deliver 1,000 cubic feet of free air per minute. The machine drill equipment consists of eight Ingersoll-Sergeant and five Rand drills. In connection with the storage and distribution system of the compressed air to the various mine workings, three receivers are used. One at the surface and two at the mine

MONTREAL-LONDON CO.—Continued.

workings. These are connected by piping having a larger sectional area than the discharge from the compressing cylinders—to favor the condensation in the receivers of the moisture contained in the compressed air.

Adjoining the engine room, containing the machinery described (except the smaller hoist) is the machinery room, in which are installed a lathe, drill press, emery wheels, drill testing block and the various special tools required to take care of the repair work necessary in the operation of such a plant. These machines are run by a 20 h.p. high speed Leonard Ball engine, which is also used for running the dynamo used as an auxiliary in case of accident to large dynamo at the mill.

The steam power for this machinery and for the pumps in the mine is generated by a battery of three 14 feet x 54 inch horizontal tubular boilers, built to carry a working pressure of 120 pounds per square inch. The mine offices, engine and machine rooms are heated by steam.

MORNING AND EVENING GOLD AND SILVER MINING CO., Limited.

Registered in British Columbia, 20th March, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

A. D. Coplen, Spokane, President.
Grant Wolverton, Vice-President. R. J. Dawson, Secretary.
Milton T. Bentley, Treasurer.

Owns and is developing the Morning and Evening mineral claims, situated on Morning Mountain, six miles from the town of Nelson, British Columbia.

MORNING STAR GOLD MINING CO., Limited.

Incorporated under the Laws of British Columbia, 15th April, 1896. Authorized Capital, $1,000,000 in shares of $1.00.

Officers:

Geo. Haldorn, Butte, Mont., President.
Geo. E. Pfunder, Rossland, Vice-President.
P. A. Largey, Butte, Mont., Treas. C. M. Cowper Coles, Rossland, Secy.

Head Office: Rossland, B.C.

Owns the Morning Star mineral claim, on Red Mountain, 1¾ miles north of Rossland, British Columbia.

MORRISON GOLD MINING CO., Limited.

Registered in British Columbia, 1896. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

George T. Crane, President and Treasurer.
A. F. Oliver, Secretary. F. H. Oliver, Manager.

Directors:

George T. Crane. F. C. Loring. A. F. Oliver. F. R. Fisk.
F. H. Oliver.

Head Office: George T. Crane, President, 23 Columbia Avenue, Spokane, Wash.

Mine Office: F. H. Oliver, Greenwood, B.C.

Owns and is developing the Morrison mineral claim, in Deadwood Camp, Kettle River Mining Division, British Columbia. Opened by three shafts, 102 feet, 30 feet, and 18 feet, and by one tunnel driven, at date of report, 360 feet. Equipped with Rand drills, 130 h.p. boiler, a Cameron pump, &c.

MOUNTAIN GOAT MINING CO., Limited.

Incorporated in British Columbia, March, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

J. Fred. Ritchie, President.
Claud Cregan, Vice-President. W. J. Nelson, Secretary-Treasurer.

Directors:

J. Fred. Ritchie. W. J. Nelson. Claud Cregan. Edward Donohoe.
Garrett Keefe.

Head Office: J. Fred. Ritchie, President, 23 Columbia Avenue, Rossland, B.C.

Mine Office: Ymir, B.C.

Formed to acquire and work the Jubilee Mine, situated 1½ miles from the town of Ymir, Nelson Mining Division, British Columbia. Considerable development has been done since the property was acquired by the present company.

MOUNTAIN MINING CO. OF ONTARIO, Limited.

Incorporated in Ontario, 1898. Authorized Capital, $499,000, in shares of a par value of $1.00.

Officers:

James Dougherty, Stouffville, Ont., President.
D. Stouffer, Vice-President. H. Robinson, Secretary.
T. E. Perkins, Treasurer.

Directors:

James Dougherty.	T. E. Perkins.	W. Mallory.
H. Robinson.	D. Stouffer.	D. W. Heise.
D. A. Jones.	W. A. Silvester.	George Collard.

Head Office: Stouffville, Ont.

Mine Office: John Macdonald, Mine Superintendent, Sudbury, Ont.

Owns and is developing Mining Location W. D. 135, (containing 35 acres) and W. D. 134 (containing 76 acres), and situated on Wolf Lake, north of the Township of Kelly, Nipissing District, Ontario.

MOUNT SICKER AND BRITISH COLUMBIA DEVELOPMENT CO, Limited.

Registered in British Columbia, 1898, with an Authorized Capital of £125,000, in shares of £1.

CANADIAN OFFICE:

Henry Croft, Agent, Victoria, B.C.

Head Office: 196 St. Vincent Street, Glasgow, Scotland.

Formed to enter into and carry into effect, with such (if any) modifications or alterations as may be agreed upon, an agreement, dated 23rd and 25th August, 1898, and made between Frederick John Smith, stock-broker in Glasgow, for himself and as attorney for the parties therein mentioned, of the first part, and John Dickson Steel, of 196, St. Vincent Street, Glasgow, chartered accountant, as Trustee for and on behalf of this company, of the second part, having for its object the purchase of mineral concessions, claims, and options in claims or shares of claims in the Province of British Columbia, and relative supplementary minute of agreement between the same parties, dated 5th September, 1898.

MOSER RIVER GOLD MINING CO., Limited.

Incorporated 16th September, 1898. Authorized Capital, $50,000, in shares of $10 each.

Directors:

Ethelred H. Oland, Halifax. | Francis Vaughan, Montague.
John W. Bennett, Halifax. | Henry M. McCallum, Halifax.
William J. DeBlois, Halifax.

Head Office: E. H. Oland, Halifax, N.S.

Formed to acquire, hold, lease, sell and convey any mines or natural deposits of gold or gold-bearing rock, or other mineral or mineral-bearing rock, ore or earth at Moser River, in the County of Halifax, or elsewhere in the Province of Nova Scotia, and any gold or mining rights, leases or licenses, prospecting or otherwise, in, upon or over any portion of said Province.

MOYIE PLACER MINING COMPANY, Limited.

Incorporated 30th September, 1897. Authorized Capital, $100,000, in shares of $1.00.

Directors:

R. L. T. Galbraith. | Thos. T. McVittie. | J. E. Humphreys.
W. VanArsdalen. | Wm. Thompson. | Hugh Watt.
A. W. McVittie.

Head Office: C. F. Venosta, Secretary, Fort Steele, B.C.
A. W. McVittie, Manager.

This company controls and is developing two placer mining leases, comprising 320 acres on the Moyie River, between Nigger and Boulder Creeks, about 26 miles from Fort Steele, South East Kootenay, Province of British Columbia.

MUSKOKA GOLD MINING AND DEVELOPING CO. Limited.

Incorporated 1898. Authorized Capital, $99,000, in shares of $1.00 each.

Directors:

G. S. Burt, S. A. Cunningham, J. H. Jackson, and Wm. Ormsby, all of Severn Bridge, Muskoka District, Ont.

Formed to carry on in all its branches the operations of a mining, milling, reduction and development company.

MUTUAL GOLD DEVELOPMENT CO. OF ONTARIO, Limited.

Incorporated under the laws of Ontario. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers :

Charles L. Lewis, President. | Henry M. Bradley, Vice-President.
Wm. D. Underhill, Secretary. | H. E. Smith, Treasurer.

Directors :

Henry M. Bradley, Charles L. Lewis, W. D. Underhill, Wm. O. Pealer, and John G. Howard, all of Duluth, Minnesota.

Head Office : Mine Centre, Ontario.

American Office : Duluth, Minn.

The company owns and is developing the following mining locations, situate near Bad Vermillion Lake in the Lower Seine River District, Ontario. A L 170, A L 171, A L 172, A L 173, J O 48, J O 49, J O 52, J O 55, J O 56, J O 58, J O 66, J O 67, HP45, H P 46, H P 47, H P 54, H P 155, H P 156.

MUTUAL NATURAL GAS COMPANY OF PORT COLBORNE, Limited.

Incorporated 1891. Authorized Capital, $20,000, in 200 shares of $100 each, of which $14,000 has been subscribed and paid.

Directors :

John Reeb, President.
Menna A. Reeb, Vice-President. Eugene Reeb, Manager. William Reeb.

Head Office : Frank D. Noble, Secretary, Port Colborne, Ont.

Formed to drill wells for natural gas, oil and other mineral products, to construct pipe lines, etc. The company owns 25 acres, situated on the west side of the Welland Canal, in the County of Welland, Province of Ontario, and to date has drilled five wells, each of a depth of 830 ft., yielding a daily flow of about 1,500,000 cubic feet of gas. It supplies the Village of Port Colborne, the number of consumers being about 285. Among other industrial consumers are the Ontario Silver Company's works at Humberstone, where the gas is used for annealing, and the estimated daily consumption is 50,000 cubic feet in winter and 25,000 to 30,000 cubic feet in summer; Neff Bros. foundry and machine shop, Morningstar's grist mills, and Grand Trunk Railway water pumping station. The value of machinery plant and buildings owned by this company is estimated at $27,000. The company also owns the property of the Producers Oil, Gas and Mining Co., Limited.

NAHMINT MINING CO., Limited.

Registered in British Columbia 31st October, 1898. Authorized Capital, $100,000, in shares of a par value of $1.00.

Officers:

A. L. Mohler, President. | G. H. Hayes, Managing Director.
S. M. Mears, Vice-President. | John W. Goss, Sec.-Treas.

Directors:

A. L. Mohler. C. E. Ladd. S. M. Mears. J. W. Goss.
G. H. Hayes.

Head Office: John W. Goss, Secretary, 20 North Front Street, Portland, Oregon.

Canadian Office: G. H. Hayes, Managing Director, Alberni, B.C.

Owns and is developing the Hayes Group, comprising four full-sized claims and three fractions, situated on the west side of the Alberni Canal, half a mile south of of Nahmint Bay, and about 15 miles from the Town of Alberni, Alberni Mining Division, B.C. Development consists of 600 feet of tunnel, and a shaft down, at date of report, 150 feet. The lower tunnel cuts the vein at a depth of 265 feet, at a point where the vein is 28 feet wide, carrying values in copper, gold, and silver. Shipments in 1898 amounted to 500 tons. 30 persons employed.

NANKI-POO GOLD MINING CO OF OTTAWA, Limited.

Incorporated February 17th, 1897. Authorized Capital, $1,000,000, in shares of $1.00 each.

Directors:

A. H. Edmeson, Rat Portage, Ont. | W. A. Clark, Ottawa, Ont.
J. M. Clark, Toronto, Ont. | A. W. Fraser, Ottawa, Ont.
J. Todhunter, Toronto, Ont. | J. Burley Smith, Winnipeg, Man.

Head Office: A. W. Fraser, Secretary, Ottawa, Ont.

Formed to carry on in all its branches the business of a mining, milling, reduction and development company.

NATIONAL MINING AND DEVELOPMENT CO., Limited.

Authorized Capital, $1,000,000, in shares of a par value of $1.00 each.

Directors:

Alex. A. Allan.	John Flett.	Alfred D. Benjamin.
Andrew Darling.	R. Millichamp.	Hugh Scott.
Frederick Wild.	Alex. A. McMichael.	James Pearson.

Chas. A. Godson.

Head Office: Rothesay, N.B.

Formed to acquire the North Star mineral claim, situated in Camp Fairview, in the Osoyoos Division of Yale District; the Victoria mineral claim, situate in the Kettle River Mining Division; the Mary Ann mineral claim, situate in the Kettle River Mining Division; the Scott mineral claim, situate in Rock Creek, in the Kettle River Mining Division; the Gold Drop mineral claim, situate in the Trail Creek Mining Division of West Kootenay; the Charlotte L., the Margarethe S., and Irma mineral claims, situate on the East Fork of the North Fork of the Salmon River, in the Nelson Mining Division; and especially to enter into a certain agreement in that behalf, between Charles Arthur Godson, and the said company so as to be incorporated, and to operate the said mineral claims.

NATURAL GAS AND OIL CO. OF ONTARIO, Limited.

Incorporated 1894. Authorized Capital, $500,000, in shares of $50.00 each.

Directors:

Hiram Walker, Detroit.

S. A. King, Kingsville, Ont.	C. M. Walker, Walkerville, Ont.
Thos. Reid, Walkerville, Ont.	Hiram A. Walker, " "

Head Office: S. T. Copus, Secretary, Windsor, Ont.

Formed to acquire in the County of Essex lands or interest in which to sink wells for natural gas, oil and other minerals. The company has about twenty producing wells, from which the Town of Walkerville, City of Windsor, Ont., and the City of Detroit, Mich., are supplied: the plants being fed by two lines, one an 8-in. extending 33 miles, and another, a telescope of 8 and 10 inches.

NELSON COPPER FIELDS, Limited.

Offices: 57 Moorgate Street, London, E.C.

Registered in London, 28th January, 1898, to adopt an agreement dated 25th January, 1898, between the Kootenay British Columbia Mining Syndicate, Limited, of the one part, and C. S. Good, as trustee for and on behalf of this company for the other part, for the acquisition of certain mining properties in British Columbia. The Authorized Capital is £100,000, in 100,000 shares of £1.

NELSON POORMAN GOLD MINING CO., Limited.

Incorporated in British Columbia, 25th May, 1897. Authorized Capital, $250,000, in shares of a par value of 25 cents.

Officers:

A. L. Davenport, President.
Hon. J. Fred. Hume, Vice-President. Robert Ewart, Secretary-Treasurer.

Head Office: Nelson, B.C.

Owns and is developing the Poorman Group, comprising five mineral claims, situated on the northern flanks of Toad Mountain, about 2½ miles west of the town of Nelson, British Columbia.

NELSON, SLOCAN AND LARDEAU GOLD MINING AND DEVELOPMENT CO., Limited.

Incorporated 6th March, 1897. Authorized Capital, $500,000, in shares of a par value of $1.00.

Head Office: W. A. Jowett, Nelson, B.C.

Owns and is developing the President Group of mineral claims, situate 1 mile west of Hooser Lake, Lardeau District, British Columbia.

NEST EGG AND FIRE FLY GOLD MINING CO., Limited.

Incorporated 2nd December, 1897. Authorized Capital, $1,000,000, in shares par value of $1.00.

Directors :

Charles Hayward. A. J. W. Bridgeman. C. A. Holland. G. A. Kirk.

Head Office: A. K. Munroe, Secretary-Treasurer, Victoria, B.C.

Owns the Nest Egg and Fire Fly claims, 1¼ miles south-west of Rossland, British Columbia.

NEW BRITISH COLUMBIA DEVELOPMENT CORPORATION, Limited.

The Authorized Capital is £10,000, in 10,000 shares of £1 ; 6,755 shares have been issued, and are fully paid.

Directors :

B. Leather. N. R. Hepworth. J. Cook.

Head Office : H. Whitfield, C.A., Secretary, 17 East Parade, Leeds, England.

Canadian Office : C. E. Hope, [illegible]6 Hastings Street, Vancouver, B.C.

This company was registered on the 23rd April, 1897, to secure openings for the employment of capital, and to acquire and deal with mining properties.

The company owns and is developing various groups of claims in the Slocan, Kettle River, Rossland and Lillooet Districts, Province of British Columbia. At the annual meeting of the company, held on 9th December, the chairman explained the position of the company as follows :—

In presenting the accounts to you at this meeting, we have adopted the simple form of receipts and expenditure, as we have neither sales nor profits yet to record, having simply to account for the capital and expenditure thereof. I hope that at our next meeting, however, we shall have some profit to record. The only item that requires explanation is the sum of £622 for formation expenses. This includes 300 shares allotted to Mr. Hope and £200 in cash for his travelling expenses to and from the colony,

NEW B.C. DEVELOPMENT CORPORATION—Continued.

as per his agreement with the company, leaving a sum of £122 for the usual legal and sundry expenses. When the company was formed in April, 1897, we had under consideration some claims introduced by Mr. Hope in the neighbourhood of Rossland, which, after inspection and partial development, for the time being we abandoned, the cost to the company being very small. Our manager, Mr. Hope, during the summer of 1897 examined many properties in Cariboo, Kootenay, and the Boundary country. In August he had introduced to him the Emily Edith property, on which we are now engaged. Private interests were bought in this and several other adjoining claims, and the other interests were quietly acquired during the following two months. The result is that we have now a compact property, consisting of ten claims and fractions, comprising in all 170 acres situated on Four-Mile Creek, one mile and a-half from Silverton Wharf, with ample timber and good roads, so that it is possible for us to ship ore all the year round. We also acquired very valuable water rights, with a greater supply than is necessary for our own requirements, which in the near future is expected will be a profitable source of income. We commenced work on the Emily Edith claim in January of this year, and in the short time at our disposal I think we have created a record for development and tunnel work in the Slocan. We have in the upper tunnel 870 ft. of tunnelling and cross-cuts, and in the lower tunnel 358 ft.; a total of 1228 ft., and I may say the works, including superintendence, trails, roads, carriage, and all work on the mine, with mine supplies and plant, has been done at the moderate cost of $8.36 per foot, which is considerably under the average prices in that district. The mine is fully equipped with assay office, ore house, men's quarters, and all necessary accommodation. The work has been energetically proceeded with, and we are now working on a chute of ore in the upper tunnel in which we have driven 62 ft. across the vein and have not yet found the foot-wall. Of this 62 ft. not less than fifty-four are in ore of high grade, and we are informed that this is the largest body of ore yet found in the Slocan. A trial shipment of 15 tons was sent to the smelter in August last, the returns for which show a net profit of over £10 per ton, the ore averaging 100 oz. of silver per ton and 46½ per cent. of lead. The returns of this shipment have not been brought into the accounts as presented, the cash not having been received from the smelting company. Had this ore been put through the concentrator instead of being hand sorted, the yield would have been considerably higher. The result of this shipment clearly shows the high grade of the ore, and the cross-cuts have shown the extent of it, so that we may confidently feel that we have the makings of a big mine. I have received an estimate of the amount of ore in sight, assuming the present ore chute is found in the lower tunnel (of which we are assured there is very little doubt), and the net value of this at

NEW B.C. DEVELOPMENT CORPORATION—Continued.

a very low estimate is £20,000 sterling. This does not include the extension of the chute into lower ground, below the lower tunnel, nor the amount of ore which we know continues above the upper tunnel, which is 150 ft. below the surface. In addition to this there is now over 3000 tons of good concentrating ore on the dump, so that you can put it that we have at a low estimate £24,000 to £25,000 of ore in sight. We hope in the space of two months to be ready either for re-flotation or the erection of a concentrator, and in view of the development necessary your directors suggest that the capital of the company be increased to £20,000. Should a 50-ton concentrator be erected, on its completion 50 tons of concentrating ore can be treated per day, which should produce at least 6 tons per day of concentrates, or 36 tons per week. This at the rate of profit on the average of the trial shipment would give the shareholders a very handsome return for their investment. We received yesterday a further report from a mining engineer of high standing, which is exceedingly favourable, and in it he states: "The conditions are decidedly encouraging, and the present ore chute is most likely to continue with depth." The cablegram referred to in my opening remarks received from our manager this morning, who, as I have already stated, is at present at the mine, is as follows: "We have struck 1 ft. clean ore lower tunnel. Chute of ore upper tunnel 150 ft. long. Full face concentrating ore 6 in. clean. Raise upper tunnel full face concentrating ore 1 ft., very nearly clean. Taking out 1 ton per day very nearly clean ore; 14 tons packed in bags now ready for shipment. The development of the mine fully justify the expectations which have been formed. Looking first-rate. Crown grant has been completed." I think the shareholders have every reason to congratulate themselves on the successful development of this property, and that the information given them should remove any difficulty in the way of finding further capital for such a splendid property. If the shareholders refer to the lists furnished to them of original subscribers to the company and the increased holdings of the directors, and those immediately interested, they will at once see that they have shown their faith in the property by a greatly increased investment. The company is also owner and part owner of some twenty-two claims in various parts of British Columbia in various stages of development, and it is your directors intention early in the spring to commence work on the most likely of these with a view to bringing them forward for flotation. The shareholders will at once see that this result has not been achieved without a great amount of hard work by their board of directors, involving an extraordinary amount of correspondence, a great number of properties and investments having to be examined and investigated which were declined, or for some reason or other found not suitable; all of which makes no appearance in our accounts or report; and I wish here to state that success would have been almost impossible, or in any case

NEW B.C. DEVELOPMENT CORPORATION—Continued.

the result would have been exceedingly doubtful, had we not been so ably represented in the colony by Mr. Hope. He considers no detail too small for his consideration, and has put such energy and intelligence into the work that we may feel assured of a great future for the company. In connection with the "Emily Edith" property he has been splendidly supported by Mr. E. Rammelmeyer, our resident engineer, who has heartily devoted himself to the work, pushing developments with all speed, and economising in every way possible, and to these two able gentlemen our present successful position is largely due, and they deserve our best thanks. This information we cannot but think will be as satisfactory to the shareholders as it is encouraging to the directors.

NEW BRUNSWICK CONSOLIDATED GOLD MINING CO., Limited.

Incorporated in British Columbia, 1st March, 1897. Authorized Capital, $1,000,000, in shares of $1.00.

Directors:

W. H. Goodeve, President.

George K. Morton, Vice-President. | M. H. Dobie, Secretary-Treasurer.
Dr. Frank O. Lawrence. | John Henderson.

Head Office: M. H. Dobie, Secretary, Rossland, B.C.

Owns and is developing the New Brunswick, Florence and Deadwood mineral claims, situate 1½ miles from the Town of Ymir, British Columbia.

NEW EGERTON MINING CO., Limited.

Organized 1890; incorporated 1896. Authorized Capital, $200,000.

Directors:

James D. McGregor, M.P.P. | Peter A. McGregor.
John H. Sinclair, M.P.P. | George Mitchell, M.P.P.
John Yorston.

Head Office: R. M. McGregor, Secretary, New Glasgow, Nova Scotia.

Mines Office: 15 Mile Stream, N.S.

Owns and operates some 300 gold areas in the 15 Mile Stream District, Province of Nova Scotia. Writing of the occurrence of gold here, Mr. E. R.

NEW EGERTON MINING CO.—Continued.

Faribault (Summary Report Geol. Sur., 1897), says:—"The north anticline of the Moose River mine passes through this district, and is here composed of three minor anticlinal folds. The two most northerly folds are only 130 feet apart at the east end of the district, on the New Egerton property, and have a pitch to the east at an angle of 30 degrees. Mining operations have, so far, been confined to the quartz veins lying along the two northern anticlines. The New Egerton Company has lately taken possession of the principal properties which had been worked from time to time by different companies, and they are now operating on a large scale the important belts of low grade ore known as the Mother Seigel, and the Nonpareil, on the synclinal fold, immediately south of the middle anticline, at the eastern end of the district."

The property is now being operated by open cast workings, 30 persons being employed.

The mining plant comprises:—Two return tubular boilers, 80 and 35 h.p.; Rand compressor, Rand and Ingersoll drills, Bacon hoisting engine, two steam pumps, Dodge crusher and a horizontal cable-way (Harris-Millar) 800 feet span. The milling plant comprises:—A battery of 30 stamps (steam driven), and a water driven battery having 20 stamps; weight stamps, 750 pounds; drop, 92 p.m. During 1897 nine months milling with the 30 stamp battery gave 2,546 ounces from 8,222 tons rock crushed. Operations were suspended in October to change system of working, and were resumed with both mills running, 15th May, 1898.

The returns of the gold won by the former and present operators have been furnished by the Department of Mines:—

1887.....	299	ounces,	15	dwts.	from	569	tons rock crushed.
1888.....	946	"	8	"	"	2,151	"
1889.....	786	"	9	"	"	1,417	"
1890.....	2,184	"	9	"	"	2,476	"
1891.....	2,446	"	5	"	"	4,263	"
1892.....	1,285	"	..	"	"	2,460	"
1893.....	497	"	17	"	"	1,401	"
1894.....	552	"	..	"	"	1,173	"
1895.....	2,956	"	2	"	"	5,239	"
1896.....	2,624	"	..	"	"	5,200	"
1897*.....	2,850	"	6	"	"	9,429	"
1898†.....	588	"	12	"	"	2,470	"

*Ten months' milling only.

†Little crushing done owing to improvements in method of working.

NEW EUREKA SILVER MINING CO., Limited

Authorized Capital, $150,000, in shares of a par value of $1.00.

Directors:

R. P. Rithet, President.
C. E. Pooley. J. Davies. F. S. Barnard. C. T. Dupont.

Head Office: G. A. Sargison, Secretary, 48 Langley St., Victoria, B.C.

This company owns and is developing Lots 24 (18 acres) and 25 (1½ acres), situated at Hope Mountain, B.C.

NEWFOUNDLAND & CANADIAN EXPLORATION TRUST, Limited.

Registered 19th March, 1891.

Head Office: W. Gedge, Secretary, Trafalgar Building, Charing Cross, London, E.C.

Formed to acquire through the Patents, Mining and Financial Trust, Limited, the mining rights of the Newfoundland Colonization and Mining Company, Limited, over 100 square miles of land in Newfoundland, upon which a lead mine, known as Lamanche, is situated, and to carry on the business of financial agents. The purchase consideration was £100,000, payable £50,000 in cash, (or cash shares, and 6 per cent. debentures), and £50,000 in 25,000 fully paid ordinary shares, and 25,000 fully paid preference shares, in addition to a royalty of 12½ per cent. on the net profits. The Authorized Capital is £150,000, in 75,000 7 per cent. non-cumulative preference shares of £1 each, and 75,000 ordinary shares of £1: 32,800 preference shares and 32,800 ordinary shares have been issued and are fully paid, 30,100 preference and 29,753 ordinary being issued credited as fully paid. There are 6 per cent. debentures amounting to £25,000.

NEWFOUNDLAND COPPER CO., Limited.

Registered in England, 8th March, 1898. Authorized Capital, £250,000, in 250,000 shares of £1: in March, 1898, 125,000 shares were offered for public subscription.

Directors:

J. Peters. C. Royal-Dawson. Charles J. Crickmer. Edwin Bowley.

Head Office: John Pye, 8 Eastcheap, London, E.C.

NEWFOUNDLAND COPPER CO.—Continued.

Formed to acquire contracts for the purchase of certain leases, claims, licenses and mining properties containing copper deposits in Newfoundland.

1st.—The Lady Pond, on which twelve pits have been sunk to various depths, all in ore, the yield of which averages about 15 per cent. copper. This property is about one mile square, and a large quantity of ore has been exposed by the trial workings referred to.

Samples of first-class ore selected from the dump (of about 200 tons) have been submitted to Messrs. Johnson & Sons, Assayers to the Bank of England, H.M. Mint, etc., and the following is their report, dated 11th February, 1898:

	Copper.	Sulphur.	Fine Gold.	Fine Silver.
Lady Pond A,	31.80 p.c.	31.25 p.c.	2 dwts. 12 grs.	17 dwts. 12 grs.
			per ton of 20 cwt.	
" B,	32.70 p.c.	32.50 p.c.	No gold or silver of value.	
" C,	20.95 p.c.	36.14 p.c.	No gold or silver of value.	

2nd —The Delaney Cove, upon which a shaft is now being sunk in ore of about 10 per cent. The property is about one mile square.

3rd.—Cann Island. This island is more than a mile in length. Several large veins of copper ore have been discovered, containing ore of 10 per cent. and upwards. Some assays have shown notable quantities of gold and silver.

A sample of rough ore from the island was submitted to Messrs. Johnson & Sons, Assayers to the Bank of England, H.M. Mint, etc., and the following is their report, dated 11th February, 1898:

	Copper.	Sulphur.	Fine Gold.	Fine Silver.
Cann Island..	6.07 p.c.	7.00 p.c.	2 dwts. 12 grs.	1 oz. 17 dwts. 12grs.

4th.—Burton's Pond. About one square mile. Copper deposits have been found in many parts of the property. Some of these have been tested by shallow pits and drifts, and a shipment of ore from these trial workings assayed over 10 per cent. for copper. There is good water power during the greater part of the year.

A sample of first-class ore assayed by Messrs. Johnson & Sons gave results as follows:

Copper.	Sulphur.	Fine Gold.	Fine Silver.
20.85p.c.	34.13 p.c.	1 oz. 17 dwts. 12 grs. per ton.	9 ozs. 12 dwts. 12grs. per ton

Another sample assayed by Mr. F. Claudet, Assayer to the Bank of England, gave results as follows:

Copper.	Sulphur.	Fine Gold.	Fine Silver.
18.30 p.c.	33.50 p.c.	18 dwts. per ton.	7 ozs. 10 dwts. per ton.

In addition to the above, there are properties at Long Island and Seal Bay showing good ore.

The following are the contracts, the first six of which have been entered into by J. H. Collins, acting for and on behalf of the Trump Island Mineral Syndicate, Limited:—Lady Pond, 17th November, 1897; J. W. Foran with

NEWFOUNDLAND COPPER CO—Continued.

J. H. Collins. Delaney's Cove, 26th October, 1897; John Delaney and John Buzan with the Trump Island Mineral Syndicate, Limited, through Joseph Henry Collins. Cann Island, 12th November, 1897; J. O. Fraser, for self and co-partners, with J. H. Collins. Burton's Pond, 12th November, 1897; Notre Dame Mining Company with Joseph Henry Collins. Long Island, 16th November, 1897; Charles R. Thompson with Joseph Henry Collins. Seal Bay, 16th November, 1897; William F. Horwood and Joseph Henry Collins. 17th February, 1898, the Trump Island Mineral Syndicate, Limited, with the Terra Nova Mineral Syndicate, Limited. 2nd March, 1898, the Trump Island Mineral Syndicate, Limited, with Joseph Henry Collins. 8th March, 1898, the Terra Nova Mineral Syndicate, Limited, with the Company.

The purchase price as fixed by the vendor Company was £75,000, payable in fully paid shares or in cash, or partly in cash and partly in shares, at the option of the Directors, thus leaving £50,000 available for the purposes of the Company, independent of the £125,000 in reserve.

In order to obtain complete titles to all the above properties mentioned in the prospectus from the vendors and the Government, further sums of cash not exceeding £11,500 and fully paid shares not exceeding £10,000 will have to be provided by the Company.

NEWFOUNDLAND EXPLORATION CO., Limited.

Head Office: 8 Finch Lane, London, E.C., England.

Registered 19th June, 1897, to acquire mines, etc., in Newfoundland. The company is contemplating the unwatering and working of certain antimony mines on the north-west coast of the Island. The Authorized Capital is £20,000, in 20,000 shares of £1 each: 2,650 shares have been issued.

NEWFOUNDLAND IRON ORE CO., Limited.

Authorized Capital, £150,000, in shares of £1.

Directors:

M. M. Frank Schneider, Chairman.
James Duffield. Joseph Ellis. J. S. Randles. Col. W. Sidebottom, M.P.

Head Office: T. Anyon, Secretary, 6 St. James Square, Manchester, England.

Mine Office: S. Herbert Williams, Manager, Worthington, Newfoundland.

Owns and is developing 14 claims, covering an area of 14 square miles, at Conception Bay, Newfoundland. Opened at date of report by two shafts, down, respectively, 100 feet and 30 feet. There are also a number of test pits, prospecting shafts and a short tunnel. 60 persons employed. Output in 1898, 250 tons.

NEWFOUNDLAND PETROLEUM CO., Limited.

Head Office: 9 St. Mildred's Court, Poultry, London, E.C.

Registered May 1st, by Burn and Berridge, 11 Old Broad Street, London, E.C., with a Capital of £35,000, in £1 shares. Object, to acquire, develop and turn to account certain oil wells and properties in Parson's Pond, Newfoundland, and to enter into an agreement with H. C. Parkes. Registered without articles of association.

NEW FRASER RIVER GOLD MINES, Limited.

Registered 1897. Authorized Capital, £75,000 in shares of £1. In May, 1897, 50,000 shares were offered for public subscription by the New Goldfields of British Columbia.

Directors:

John Lowles, M. P., Chairman.
C. Ashworth. Hon. F. S. A. Hanbury-Tracy, Jr.

Head Office: W. A. Sterns, Secretary, 23 Leadenhall St, London, E.C.

CANADIAN OFFICE:
Hon. F. Peters, Attorney, Board of Trade Building, Victoria, B.C.

This company has been formed to acquire and develop: (1) Two licenses or mining leases, dated 28th September, 1894, for twenty years, granted by the Government of British Columbia, to work ten miles of the bed and bars of the Fraser river, giving the right to dredge or otherwise reclaim the precious metals contained in the sand and gravel thereof; (2) The gold placer mining claims known as the "Lyall Bar" and "Saw Mill Flat," situated on the same river. The purchase price was £60,000, payable as to £25,000 in fully paid shares, and the balance of £35,000 in cash or shares, at the option of the Directors. Reporting on the dredging operations of the company, the Mines Report, 1898, says: "In this class of mining at Big Bar, this company is the only one that has been in active operation, and it has been seriously handicapped. Caught in a rapid falling river in November of last year, its dredge was frozen in for months, and did not commence operations until about the end of April, and was forced to stop work again, owing to high water and heavy drift, from about the end of May until the middle of August, when it continued, with successful and satisfactory results, until the 22nd of December, when severe weather again stopped it."

NEW GLASGOW GOLD MINING CO., Limited.

Incorporated by an Act of the Legislature of Nova Scotia, 1895.
Authorized Capital, $20,000.

Directors:

John McIntosh, Stellarton. Angus Chisholm, New Glasgow.
J. A. Fraser, New Glasgow.

Office: G. A. Hirschfield, Goldenville, N.S.

Property at Goldenville, Guysborough County, Nova Scotia. Equipped with 10-stamp mill and other plant. The gold yield since 1895, officially reported, has been:—

1895 (4 months only).	1,073	tons milled	gave	432 oz.	8 dwt.
1896.....	3,791	"	"	1,734 "	5 "
1897.....	4,492	"	"	1,595 "	9 "
1898 (4 months only)	1,190	"	"	255 "	"

NEW GOLDEN BRITISH COLUMBIA, Limited.

Registered in British Columbia, 8th August, 1898. Authorized Capital, £12,000, in shares of £1 each.

Directors:

Lord Ribblesdale,
A. C. Mitchell Innes. John Taylor.

Head Office: F. H. Williams, Secretary, 6 Queen St. Place, London, E.C.

CANADIAN OFFICE:
Golden, British Columbia.

This company was registered in England, 27th May, 1898, to acquire the properties of Golden, British Columbia, Limited, (see notice elsewhere) consisting of 21 mineral claims in East Kootenay, British Columbia.

NEW GOLD FIELDS OF BRITISH COLUMBIA, Limited.

Registered 1897. Authorized Capital, £250,000, in shares of £1 each; 50,000 shares have been issued and 17s. 6d. called up.

Directors:

Sir Charles Tupper, Bart., Chairman.
John Lowles, M.P. | F. E. Harman.
Sir Charles M. Kennedy. | C. Ashworth.

NEW GOLD FIELDS OF BRITISH COLUMBIA—Continued.

Canadian Board:

Rufus A. Pope, M.P. George P. Brophy, C.E. E. Bristol.

Head Office: W. C. Stearns, Secretary, 23 Leadenhall St., London, E.C.
Mr. James Morrish, M.E., Consulting Mining Engineer.

Formed to acquire in British Calumbia and elsewhere by purchase, lease, concession, exchange or otherwise, mining property, claims, water rights, and also including lands, mines, mining rights and claims, minerals, ores, mills, stamps, smelting and other works for treating ores and minerals and rendering them marketable, etc.

The company has since floated the Klondyke Trading and Transport Corporation, Limited, and the Velvet Mines, Limited.

DIRECTORS' REPORT.

(19TH JULY, 1898.)

The following is excerpted from the Directors' Report, submitted to the shareholders on 19th July, 1898:—

In presenting the accounts the Directors have pleasure in stating that they have made a cash profit which is sufficient to pay a dividend of 7 per cent., to the shareholders on the register at this date.

In view however of the necessity for having ample working capital, to carry on the development of the Velvet mine and other valuable properties in which the company is interested, the Directors do not deem it expedient to recommend the immediate payment of a dividend, but they will consider the question of declaring an interim dividend as soon as warranted by the circumstances.

Meanwhile it has been arranged to make a further issue of 25,000 shares which are now offered, in the first instance, to the shareholders at par.

As will be seen from the Balance Sheet, the company has considerable holdings in several undertakings from which your Directors anticipate substantial results in the near future.

Some of the properties in which the company is interested were described in detail by the Chairman in his speech at the Extraordinary General Meeting held in December last. Their development has since been steadily and satisfactorily progressing, and information relating thereto has been from time to time forwarded to the shareholders. A brief *resumé* of their present position is submitted herewith.

Your Directors have participated in other propositions which have yielded, and which promise, profitable results, and they have satisfaction in stating that important business has come to them from one of the strongest groups of capitalists in Canada, with whom they have established reciprocal business relations.

NEW GOLD FIELDS OF BRITISH COLUMBIA—Continued.

Velvet Mines, Rossland, B.C.—This property has fully justified the favourable anticipations which were formed respecting it. The company's Chief Engineer, Mr. James Morrish, M.I.M.M. is on the spot, and reports that the developments which have been in operation during the winter, have proved beyond question the strength and value of the lode met with from the surface.

The total amount of sinking, drifting and raising done is 1,166 feet. The main shaft is 165 feet deep and passes through rich ore for practically the entire distance.

Mr. Morrish, in a recent communication, states that, after a very careful consideration, he has come to the conclusion that, placing a very conservative estimate on the ore reserves, we have at least 12,000 tons in sight above the 100 feet level, ready to be stoped away at any time, the value of which is £20,000 net.

In addition to this there are about 3,000 tons of ore on the surface valued at £2 per ton net or £6,000.

At the 160 feet level a cross cut 32 feet east has been driven, and the vein drifted on 44 feet assays $35 or £7 per ton.

The exceedingly promising developments on the Velvet Mine led your Directors to watch for opportunities to acquire such of the adjoining properties as would enhance the value of the Velvet, and which could be worked in conjunction with it. They have been fortunate enough to secure first the Portland and later the Bluebell, and the company has now a compact property of about 150 acres in one block. Owing to the satisfactory shewing at the lower levels of the Velvet Mine the Directors have been enabled to sell a fifth interest in these properties for a larger sum in cash.

Meantime, for the purpose of apportioning the interests under the sale already alluded to, a private syndicate company has been registered called "The Velvet Mines, Limited," in which the management is practically continued.

New Fraser River Gold Mines, Limited.—The operations of the dredge have been interfered with by the exceptionally severe winter. The river is now resuming its normal condition and active operations will be shortly recommenced. During the time the dredge was at work prior to stoppage by the frost, the results were very promising, and Mr. Gore, the Engineer in charge, speaks with absolute confidence of the future.

Klondyke Mining, Trading and Transport Corporation, Limited.—In which the company has a large interest is actively at work. The corporation owns the fast ocean steamer "Amur" of 1,100 tons deadweight, running between Victoria, Vancouver and Wrangel, Skagway, and Dyea. It also owns the "Louise" and "Nahleen" Stern Wheel River Steamers trading on the Stickeen River. It further owns several quartz and placer gold claims which are highly spoken of, and has interests in other promising ventures.

NEW GOLD FIELDS OF BRITISH COLUMBIA—Continued.

Bennett Lake and Klondyke Navigation Company, Limited.—The company was fortunate enough to secure a considerable interest in this concern, formed privately and personally managed by some of the most capable men in Victoria, B. C. The company owns three steamers now running on Bennett Lake and its connecting waterways, and also a Saw Mill and valuable timber areas in close proximity, and has already secured some profitable transport contracts.

Klondyke Gold Fields, Limited.—Your Directors, after a most careful sifting of a large number of Klondyke properties offered to them, decided to join in operating a group owned by Messrs. Daughtry and Stevens.

As the detailed particulars contained in the prospectus of the company were so recently before you it is unnecessary to repeat them here. Your Directors have every reason to believe that the estimates formed will be realized, and have taken every care to safeguard on the spot the interests of the company.

BALANCE SHEET, 30TH JUNE, 1898.

Dr.

To Capital Authorized £250,000.			
Subscribed and Issued—			
55,737 of £1 each	£55,737 0 0		
Less—Calls unpaid	584 10 0		
		55,152 10 0	
To Sundry creditors		1,134 10 0	
Contingent Liabilities—			
In respect of uncalled Capital on shares in companies	£1,158 10 0		
In connection with Guarantee to provide working capital for subsidiary company	7,500 0 0		
	£8,658 10 0		
To Profit and Loss—			
Balance as per account		4,334 8 1	
		£60,621 8 1	

Cr.

By Expenditure on properties in hand		£5,071 1 7	
By Balance of outlay in connection with companies formed in respect of which this company receives cash and fully-paid shares as noted below*		23,615 10 7	
By Bills receivable		324 1 11	
By Sundry debtors		121 3 4	
By Loan secured on property		2,000 0 0	
By Shares in various companies taken at cost		19,378 10 4	
By Preliminary expenses	1,588 11 5		
Less—Proportion written off	529 10 5		
		1,059 1 0	
By Cash at Bank and in hand		9,051 19 4	
		£60,621 8 1	

NEW GOLD FIELDS OF BRITISH COLUMBIA—Continued.

PROFIT AND LOSS ACCOUNT, FROM 6TH JANUARY, 1897, TO 30TH JUNE, 1898.

Dr.

To Expenditure in London—			
Directors' fees	£1,625 0 0		
Office rent and Secretary's salary	450 0 0		
General expenses	292 0 7		
Printing and stationery	273 18 11		
Cables and postages	178 14 4		
Travelling expenses	125 16 0		
Legal expenses	123 3 0		
		£3,068 12 10	
By Expenditure in Canada—			
Advisory Board fees	£375 0 0		
General expenses	184 15 8		
Prospecting expenditure	632 3 5		
		1,191 19 1	
To Preliminary Expenses—			
Proportion written off		529 10 5	
		£4,790 2 4	
To Net Profit—			
Cash		4,334 8 1	
		£9,124 10 5	

Cr.

By Cash profit on re-sale of properties		£9,011 2 8	
By Interest on deposit		74 15 3	
By Transfer fees		38 12 6	
NOTE.—The company holds fully-paid shares in various companies, which will be brought into account as and when realized or otherwise dealt with, of the nominal value of	75,050 0 0		
And it is further entitled to receive on completion of transfers, in cash and fully-paid shares, from companies already formed (including fully-paid shares in the Velvet Mines) which will be brought into account as and when received	141,780 0 0		
Total (subject to outlay as above*)	£216,830 0 0		
		£9,124 10 5	

NEW KLONDYKE GOLD FINDERS, Limited.

Head Office: John Morley, Stores and Export Packing Warehouse, Priory Park, St. Albans, Herts, England.

This company was registered on the 10th August, 1897, to carry on prospecting, trading, and financial operations in the gold fields of the Yukon, Canada. Authorized Capital, £18,000, in 18,000 shares of £1; 311 shares have been issued. In August, 1897, all the shares were offered for public subscription.

NEWPORT PLASTER MINING AND MANUFACTURING CO., Limited.

Incorporated 1892. Authorized Capital, $40,000, in 400 shares of $100.

Directors:

C. H. Dimock, President.
E. N. Dimock, Secretary. J. B. King.

Head Office: Windsor, N.S.

The company's property contains 156 acres, upon which are operated gypsum quarries at Newport, Hants County, Nova Scotia, within half a mile from Newport station, on the Windsor & Annapolis Railway, and six miles from shipping wharf at Windsor. In addition to the white plaster mines at Newport, the company controls the output of quarries at Miller's Creek and Walton, and a land plaster quarry known as Grant's at Summerville.

NEW ROCKLAND SLATE CO., Limited.

Authorized Capital, $150,000, fully subscribed and paid up.

Directors:

Hon. G. A. Drummond, President.
Jas. Ferrier. Sutherland Stayner. F. R. Redpath.
A. Dunbar Taylor.

Head Office: T. P. Bacon, Secretary-Treasurer, 377 St. Paul Street, Montreal.

Quarries and Works: New Rockland, Que.

NEW ROCKLAND SLATE CO.—Continued.

This company owns lots 21, 22, 23 of the 4th Range of Melburne, and operates the large slate quarry situate (lot 23) at New Rockland, in the Province of Quebec. Two hundred men employed. Average yearly production about 6,500 tons. The manufactures include roofing slates, billiard table tops, mantles, wash tubs, hearth stones, tiles, etc. Quarries and works equipped with an excellent plant, with first-class water power from the Salmon River, transmitted to the works by cable, and an outfit of travelling derricks, etc. The quarry has at present a depth of over 200 feet, and is connected with the main line of the Grand Trunk Railway, four miles distant, by a narrow gauge railway, by which a great saving in the cost of transportation is effected.

NEW SABASKONG GOLD MINING CO. OF ONTARIO, Limited.

Incorporated 1898. Authorized Capital $125,000 in shares of $1.00 each.

Directors:

J. Whalen, Port Arthur, Ont.
J. Conmee, " " "
A. M. Wiley, " "
Dr. G. T. Gilmour, Toronto, Ont.
H. Dewart, " "
G. A. Kobold, Rat Portage, Ont.
G. Drewry, " " "
L. Hillard, " " "
H. Langford, " " "
N. W. Rowell, Toronto, Ont.

Head Office: Rat Portage, Ont.

Formed to carry on in all its branches the operations of a mining, milling, reduction and development company.

NEW ST. ELMO COPPER AND GOLD CO., Limited.

Authorized Capital, $1,500.000 in shares of a par value of $1.00.

Officers:

Wm. Duryea, President.
W. F. Newell, Secretary. J. K. VanSickle, Treasurer. All of New York.

Canadian Offices: Toronto and Rossland, B.C.
Henry Crumb, Mine Manager.

Owns and is developing the St. Elmo mineral claims, situated on Red Mountain, 1½ miles from the City of Rossland, British Columbia. Opened by tunnel, in at date of report, 600 ft. A 10-drill air compressor plant being installed.

NEW YORK-KOOTENAY CO., Limited.

Registered in British Columbia 21st April, 1897. Authorized Capital, $1,000,000 in shares of a par value of $1.00.

Directors:

G. W. McGlone, President.
J. W. Boyd, Vice-Pres. and Manager. E. E. Dedney, Secretary-Treasurer.
J. M. Hill and E. Herrick.

Head Office: E. E. Dedney, Secretary-Treas., 29 Broadway, New York.

Canadian Office: J. W. Boyd, Rossland, B.C.

Owns and is developing the Bryan, Jumbo No. III. and Jumbo No. II. fraction near Rossland, British Columbia.

NEW VANCOUVER COAL MINING AND LAND CO.

Organized 1862, and reconstructed 30th January, 1889. The authorized capital is £215,000 in 215,000 fully paid shares of £1 each. The capital was increased from £185,000 to its present amount in January, 1892, by the creation of 30,000 new shares. Shareholders in the old company receive 10 new £1 shares in exchange for each old share of £10. There are 6 per cent. debentures amounting to £40,000. The bonds are registered, and are secured on the whole of the properties as a floating security, the interest being payable half yearly on the 31st March and 30th September.

Dividends:

June, 1889	2½ per cent.	June, 1894	3 per cent.
Dec., 1889	2½ "	Dec., 1894	2 "
June, 1890	2 "	May, 1895	2 "
Dec., 1890	3 "	Dec., 1896	1 "
June, 1891	3 "	May, 1897	2 "
Dec., 1891	2½ "	Nov., 1897	2 "
June, 1892	1½ "	May, 1898	2 "
		Nov., 1898	2½ "

At the 31st December, 1890, a credit to profit and loss of £7,699 12s. 1d. was carried forward after payment of a dividend. The accounts to the 31st 1891, showed a profit on the half year of £7,890; after payment of a dividend a balance of £23,981 18s. 3d. was carried forward. For the half year ending 30th June, 1892, a loss of £4,691 7s. 4d. was shown, reducing the credit balance to £19,290 10s. 11d. At the 31st December, 1892, a profit on the

NEW VANCOUVER COAL MINING AND LAND CO—Continued.

half year of £3,097 5s. 10d. was shown, making a credit to profit and loss of £22,387 16s. 9d., which was carried forward. Reserve fund, £20,000. At the 31st Dec., 1896, a credit to profit and loss of £11,997 19s. 9d. was carried forward after payment of a dividend, and the reserve funds were increased to £41,234 2s. 10d. At the 31st December, 1897, after payment of a dividend the balance to credit of profit and loss amounted to £14,803 3s. 3d., and the reserve fund was £42,571 0s. 11d.

Directors:

John Galsworthy, Chairman.

Thos Blair Reynolds. | Frederick Tendron.
William Needham. | Edwin Andrew.

Head Office:

Joseph Ramsden, Secretary, 12 Old Jewry Chambers, Old Jewry, London, E.C.

CANADIAN OFFICE:

Samuel M. Robins, Superintendent, Nanaimo, B.C.

Agents at San Francisco:—Messrs. John Rosenfelds Sons.
Thomas Russell, Manager underground works. William H. Wall, Engineer and Surface Manager.

Formed to acquire the properties of the Vancouver Coal Mining and Land Company, Limited, registered in 1862. The company owns some 32,000 acres of freehold land, and operates the Nanaimo Colleries, Vancouver Island, in the Province of British Columbia.

Northfield Colliery.—Four miles from Departure Bay, Nanaimo. Work at this mine has been suspended.

Wellington seam, averages from 3 to 5 ft.; dip, 6 degs., or about 1 in 10; vertical depth of shaft, 440 ft.; length of slope at foot of shaft, 700 yds.

System of working—Longwall.

Ventilation—By double fan, 8 ft. dia., 220 revolutions, giving 65,000 c. ft. of air per minute.

Lamps—Naked lights.

Boilers—Four Lancaster double flue, 4½ ft. x 25 ft., aggregate 200 h.p.

Winding Engines—One high press. direct-acting, double horizontal at shaft, 16 in. diam., stroke 36 in., dia. of drum 6 ft.; at head of slope, one 8 in. cylinder, 12 in. stroke, drum. 2 ft. 10 in.; at ventilation shaft one 10 in. cyl., 12 in. stroke, 4 drum.

Pumps—Four Cameron.

Screens—Two stationary ⅝ in. x ¾ in. mesh, length, 16 ft.

NEW VANCOUVER COAL MINING AND LAND CO.—Continued.

Other Plant—An air compressor on surface supplying power for running small pumps below. Fire pumps with necessary hose. Patent tipplers for delivering coal to screens, etc.

No. 1 Esplanade—Situate half mile from wharves, Nanaimo harbor; 608 persons employed. Joseph Randle, Assistant Underground Manager.

Douglas seam, averages from 5 to 10 ft.; dip, 6 dgrs.; hoisting and ventilating shaft, 650 ft.

System of working—Pillar and stall.

Ventilation—Guibal fan, 36 ft. dia., 12 ft. wide, giving 119,000 ft. per minute.

Lamps—Naked lights.

Boilers—Six plain cylindrical, 5 x 30 ft., and four double flue Lancaster, 5 x 30 ft.

Winding engines—One high pressure, direct-acting, double horizontal, at head of shaft, 30 in. cylinder, 60 in. stroke, drum 14 ft.; one (at head of slope) 16 in. cylinder, 36 in. stroke, drum 5 ft.; one (at air shaft) 7 in. cylinder, 10 in. stroke, drum 3 ft.

Pumps—One Cameron, 16 x 6 x 36, and one Blake 12 x 6 x 12, for pumping water from dip workings to shaft bottom; water hauled from shaft in tanks under cage.

Screens—Two fixed, length 16 ft., ½ in. x ⅝ in. mesh, with tipplers for placing coal on screen; 3 chutes with tipplers for supplying town coal.

Electric haulage—In hauling the coal from the levels, which are in from foot of shaft a distance of two miles, the company utilises four 30-ton electric motors, made by the Edison General Electric Company. There is also a large power house on surface, having two double flue boilers, 4½ x 25 ft.; two ball engines of 150 h.p. each; two kilowatt dynamos and all necessary equipment for lighting and generating power required.

Other plant—Air compressing plant for running underground pumps. Fire pumps with necessary hose to protect buildings on surface.

South Field Colliery, No 5.—Situated five miles from Nanaimo. 173 persons employed. Richard Gibson, Assistant Underground Manager.

Douglas seam (South Field coal), averages from 6 ft. to 18 ft.; dip 6 deg.; vertical depth of shaft 508 ft.

System of working—Pillar and stall.

Ventilation—Double fan (Murphy) 8 ft. dia., circulating 50,000 ft. per minute.

Lamps—Naked lights.

Boilers—Four double flue Lancaster, 4½ ft. dia., 25 ft. long, 100 h.p., and one tubular boiler.

NEW VANCOUVER COAL MINING AND LAND CO.—Continued.

Winding engines—Pair of 16 x 36 engines, drum 6 ft. dia., and one underground at head of slope, 7 in. cyl., 10 in. stroke, 2 ft. 10 in. drum.

Pumps—Two Cameron, 3 in. col. discharging 80 gallons per minute.

Screens—One stationary, ⅝ in. mesh, 16 ft. long, with tippler for placing coal on screens.

Protection Island Shaft—(Nanaimo Harbor), situate 300 yards from shipping wharf, and half a mile from Town of Nanaimo. 448 persons employed. Thomas Mills, Assistant Underground Manager.

Seams worked—Douglas, upper and lower. Upper seam averages from 6 ft. to 10 ft. in thickness; dip 6°; vertical depth of shaft to seam 670 ft.; lower seam averages from 3½ to 4½ ft.; dip 6°; vertical depth of shaft to seam 740 ft. Upper seam, two slopes, main and diagonal; main slope 900 yards; diagonal 600 yards.

System of working—Pillar and stall, same as in No. 1 shaft Esplanade, across the harbor, with which it is connected.

Ventilation—By fan, as at No. 1 Esplanade shaft.

Lamps—Naked lights.

Boilers—Six double flue Lancaster, 4½ ft. x 25 ft., 300 h.p.

Winding engines—Two, one for shaft and the other for operating slopes by endless ropes; one pair 26 in. cyl., 42 in. stroke, drum 10 ft. and 10 ft. 11 in., so as to adjust ropes in hauling from both seams.

Pumps—One Cameron, 30 x 36, 2 in col. discharging 20 gallons per minute.

Screens—Not yet in place, but it is intended to put in shaking screens and travelling belts.

Bunkers to hold 1,200 tons have been erected, and hydraulic lifts for elevating coal into bunkers.

Wharf accommodation for loading vessels of largest size, and appliances for lowering coal into ship hold so as to avoid breakage.

Harewood Estate—Several bores and trial shafts have been put down and a prospect tunnel has been driven in near the croppings where there is 5 ft. of good hard coal.

In addition to railway and plant at mines there are six locomotives, 240 coal cars (6 tons), besides lumber and ballast cars; bunkers with a capacity of 10,000 tons; fitting shops with turning lathes, boring, drilling, planing, screw cutting machines, hydraulic pressure, steam hammer, etc., etc.; diamond boring machinery (bores to 4,000 ft.); wharves 2,000 ft. frontage, at which, ships of the largest size can load at all stages of the tide. Estimated value of the plant $350,000. Total number of hands employed 1,477.

NEW VANCOUVER COAL MINING AND LAND CO—Continued.

OUTPUT.			SHIPMENTS.		
Year.	Tons.		Year.	Tons.	
	T.	C.		T.	C.
1890	389,505	12	1890	391,149	5
1891	527,457	15	1891	524,647	
1892	433,386	7	1892	437,652	6
1893	469,311	15	1893	468,578	15
1894	393,772	17	1894	344,645	17
1895	339,704		1895	286,675	1
1896	320,575	13	1896	272,943	15
1897	319,343	14	1897	265,878	17
1898	520,274	10	1898	448,682	14

DIRECTORS' REPORT.

30th June, 1898.

The directors present herewith the balance-sheet and profit and loss account, duly audited, for the half-year ended 30th June, 1898; it will be observed that there is a net profit for the half-year of £10,294 18s. 4d.

The net output for the half-year was 216,838 tons, and the sales 212,479 tons.

Trade has been brisk during the half-year, but prices have not increased except in a few cases.

The steamer "Peter Jebson," referred to in the last report, has since been sold at a profit, but the proceeds were not received until July last. The steamer, therefore, appears as an asset on the 30th June last.

The Esquimalt and Nanaimo Railway Company, who claim to be entitled to certain lands, known as Newcastle Town Site, and of the foreshore rights in respect thereof, under a Crown grant, dated 21st April, 1887, have commenced an action against the company for an account of all coal and minerals raised by this company from under the sea opposite the said Newcastle Town Site, which action the company is defending.

The directors have declared an interim dividend of £2 10s. 0d. per cent. (being at the rate of £5 per cent. per annum), payable free of tax, on the 18th day of November, 1898, to the holders of shares in the company on the 1st day of November, 1898.

NEW VANCOUVER COAL MINING AND LAND CO.—Continued.

BALANCE SHEET, 30TH JUNE, 1898.

Dr.

	£ s. d.	£ s. d.
To 215,000 Shares of £1 each, fully paid		215,000 0 0
" Debenture Capital		53,650 0 0
" Insurance Fund Account	1,900 0 0	
" Land Sales Reserve Fund Account	20,546 8 4	
" Reserve Fund Account	20,459 18 6	
		42,906 6 10
" Sundry Creditors		55,231 12 0
" Profit and Loss Account		22,798 1 7
		£389,586 0 5

Cr.

	£ s. d.	£ s. d.
By Estates, Buildings, Collieries, Railway Plant, Rolling Stock, Steamer, and Wharves	318,831 19 11	
Less Estate Fund Account for half-year.	15,811 2 10	
		303,020 17 1
" Goods Depot and Reserve Stores		9,044 0 7
" Coal in Bin and in Transit		60,700 2 4
" Sundry Debtors for Land	4,754 1 11	
" " " Coal and General	9,621 6 0	
		14,375 7 11
" Nanaimo Gas Company's Shares, Rothsay Shipping Company's Shares, and Union Steamship Company of Nanaimo Debentures		1,020 16 8
" Cash in London and Colony		1,424 15 10
		£389,586 0 5

PROFIT AND LOSS ACCOUNT FOR THE SIX MONTHS ENDED 30TH JUNE, 1898.

Dr.

	£ s. d.	£ s. d.
To Amount carried to Insurance Fund A/c	100 0 0	
" " Land Sales Reserve Fund A/c	235 5 11	
" " Estate Fund A/c	15,811 2 10	
		16,146 8 9

NEW VANCOUVER COAL MINING AND LAND CO.—Continued.

To Directors' Fees	500 0 0	
" Auditor's Fee	15 15 0	
" Office Rent	35 0 0	
" Salaries	275 0 0	
" Commission	40 10 0	
" Printing, Stationery, Postage, Telegrams, and Incidental Expenses	89 14 6	
		955 19 6
" Debenture Interest		1,618 14 1
" Income Tax		265 4 8
" Balance, being Profit carried down		10,294 18 4
		£29,281 5 4

Cr.

	£ s. d.
By Nanaimo Profit, including £470 11s. 11d. realized from Land Sales, after making provision for depreciation and maintenance	29,279 17 10
" Registration Fees	1 7 6
	£29,281 5 4

Dr.

	£ s. d.
To Balance, as per Balance Sheet	22,798 1 7
	£22,798 1 7

Cr.

	£ s. d.	£ s. d.
By Balance from last Account	16,803 3 3	
Less Dividend paid 17th May last	4,300 0 0	
		12,503 3 3
" Profit brought down this half year		10,294 18 4
		£22,798 1 7

REPORT OF THE DIRECTORS.

9th May, 1899.

The accounts embracing the operations of the company for the six months ended 30th June, 1898, have already been submitted to the shareholders, and the Directors now submit those for the half year ended 31st December, 1898.

The net output for the past half year was 233,954 tons, making a total for the year 1898 of 450,792 tons, as against 267,552 tons for the year 1897.

NEW VANCOUVER COAL MINING AND LAND CO.—Continued.

The sales for the past half year were 236,203 tons, making a total for the year 1898 of 448,682 tons, against 265,878 tons for the year 1897.

The market has been fairly brisk and prices have continued about the same as during the previous half year.

East Field Mine.—The net output during the past half year from this mine was 126,957 tons, making the total for the year 267,721 tons.

Protection Island Shaft.—This mine was reopened in March, 1898. The net output from the upper seam for the past half year was 60,215 tons, making a total, since the reopening, of 94,606 tons.

South Field, No. 5 Shaft.—The net output from this mine for the past half year was 46,782 tons, making a total of 88,465 tons for the year.

In November last an explosion of gas occurred in the No. 1 level of the No. 1 shaft, which resulted in the death of two men and injury to six others. The Directors deeply regret the accident, especially, as one of the victims was the manager, Mr. William McGregor, who had been in the company's employ many years, and was a faithful and devoted servant to the company. Mr. Thomas Russell has been appointed mine manager in his stead.

The capital cost of the steamer Peter Jebsen, referred to in the last report as having been sold, has been deducted in the balance sheet, and the profit arising from the sale has been carried to the profit and loss account.

The action by the Esquimault & Nanaimo Railway Company against the company, claiming the coal under the sea, opposite Newcastle Townsite Reserve, is still pending.

It will be seen from the accounts that there is an available balance of £19,704 5s. 4d., out of which the Directors recommend the payment of a £3 per cent. dividend, free of income tax, making (with the interim dividend paid in November last) £5 10s. per cent. for the year 1898; this will absorb £6,450; the balance will be carried forward. The proposd dividend will be payable immediately after declaration.

BALANCE SHEET, 31ST DECEMBER, 1898.

Dr.

To 215,000 shares of £1 each, fully paid up.		£215,000 0 0
" Debenture capital		53,450 0 0
" Insurance fund account	£2,000 0 0	
" Land sales reserve fund account	21,230 5 3	
" Reserve fund account	35,459 18 6	
		58,690 3 9
" Sundry creditors		31,051 5 0
" Profit and Loss account		19,704 5 4
		£377,895 14 1

NEW VANCOUVER COAL MINING AND LAND CO.—Continued.

Cr.

By Estates, buildings, collieries, railway plant, rolling stock, and wharves	£264,546 10 11	
" Less estate fund account for the half-year	17,059 3 0	£247,487 7 11
" Goods Depot and reserve stores		9,804 13 3
" Coal in Bin and in transit		62,209 5 5
" Sundry debtors for land	£4,182 19 9	
" " " Coal and general	48,218 16 7	52,401 16 4
" Nanaimo Gas Company's shares, Rothsay Shipping Company's shares, and Union Steamship Company of Nanaimo debentures		1,020 16 8
" To Cash in London and Colony		4,971 14 6
		£377,895 14 1

PROFIT AND LOSS ACCOUNT FOR THE SIX MONTHS ENDED 31ST DECEMBER, 1898.

Dr.

To amount carried to insurance fund account	£ 100 0 0	
To Amount land sales reserve fund account.	683 17 0	
" " Estate fund account	17,059 3 0	
" Directors' fees	£500 0 0	17,843 0 0
" Auditor's fees	15 15 0	
" Office rent	35 0 0	
" Salaries	340 0 0	
" Printing, stationery, postages, telegrams, and incidental expenses	134 9 4	
" Debenture interest		1,025 4 4
" Income tax		1,606 10 0
" Balance, being profit carried down		265 4 8
		17,281 3 9
		£38,021 2 9

Cr.

By Nanaimo profit, including £1,367 13 11 realized from land sales, sand profit on sale of steamer "Peter Jebsen," after making provision for depreciation and maintenance	£38,019 0 3
" Registration fees	2 2 6
	£38,021 2 9

NEW VANCOUVER COAL MINING AND LAND CO.—Continued.

Dr.

To Balance, as per Balance Sheet			£19,704 5 4
			£ 19,704 5 4

Cr.

By Balance from last account.....		£22,798 1 7	
" Less amount carried to reserve fund.....	£15,000 0 0		
" Less dividend paid 18th November	5,375 0 0		
		20,375 0 0	
			£2,423 1 7
" Profit brought down this half-year.....			17,281 3 9
			£19,704 5 4

NICHOLS CHEMICAL CO. OF CANADA, Limited.

Officers:

W. H. Nichols, President. R. N. Hall, Vice-President.

E. R. Nichols, Secretary-Treasurer.

CANADIAN OFFICE:

S. L. Spafford, Manager, Capelton, Que.

Head Office: 32 Liberty Street, New York.

W. H. Nichols, jr., Mining Engineer.

A. W. Elkins, Superintendent Chemical Works.

This company's property contains about 5,000 acres, and is situate in the Township of Ascot, Sherbrooke County, and the Township of Bolton, Brome County, Province of Quebec. It operates at Capelton station on the line of the Boston & Maine Railroad, the Albert pyrites mine and the Capelton Chemical and Fertilizer Works, employing in all about four hundred persons. The annual output of ore from the mines ranges from 30,000 to 40,000 tons, a portion of which is utilized at the works and the remainder shipped to New York.

NICKEL STEEL CO. OF CANADA, Limited.

Incorporated by Act of Parliament 1898. Authorized Capital, $20,000,000, in shares of $100.

Head Office: John Patterson, Secretary, Hamilton, Ont.

The incorporators were: John Maclaren, Brockville, Ont.; George B. Douglas, New York; Alexander Fraser and David Maclaren, Ottawa; F. F. Vandevoort, Hon. G. A. Cox, Toronto; Nathaniel Dyment, Barrie; Alex. Maclaren, Buxckingham; A. T. Wood, John Moodie and John Patterson, Hamilton, Ont.

NIP AND TUCK GOLD HYDRAULIC MINING CO., Limited.

Incorporated in British Columbia, January, 1896. Authorized Capital, $35,000 in shares of a par value of $5.00. Dividend paid amounting to 15 cents per share.

Directors:

J. M. Buxton, President.
J. O. Benwell, Vice-President. | W. T. Stein.
F. W. Boultbee. | R. Casement.

Head Office: Arnold E. Kealy, Secretary-Treasurer, 619 Granville Street, Vancouver, B.C.

Mine Office: Fort Stelle, B.C.

Owns and is developing an hydraulic claim on Wild Horse Creek, East Kootenay, British Columbia. It is working a bank about 50 feet high, of which the upper 20 feet is loam, sand, etc., carrying very low values. The lower stratum is a blue boulder clay, laying on a bed-rock of chloritic slates, standing at an angle of 65 degrees. A 6-inch Giant is at work under a pressure of 200 feet head, together with a couple of ground sluices, the water for which was being taken from the creek, about five miles above, and brought down by a hill-side ditch. A portion of the ground has been sub-let to a company of Chinese, who were working in a small way with a canvas pipe and a 2-inch nozzle.

NIP AND TUCK SYNDICATE, Limited.

This syndicate was registered on the 30th March, 1898, by Cutler & Co., 15 Duke Street, St. James', London S.W., England, to acquire the Nip and Tuck mine, situate at Wild Horse Creek, Fort Steele, British Columbia. The authorized Capital is £2,000 in 2,000 shares of £1.

NOBLE FIVE CONSOLIDATED MINING AND MILLING CO., Limited.

Authorized Capital, $1,200,000, in shares of a par value of $1.00.
Dividends paid, $43,000.

Directors:

James Dunsmuir. J. D. Porter. B. J. Perry. C. E. Pooley. J. G. McGuigan.

Officers:

James Dunsmuir, President and Treasurer. F. J. Holman, Secretary. George B. McDonald, Assistant Secretary.

Head Office: F. J. Holman, Secretary, Spokane, Wash.

Canadian Office: B. J. Perry, Managing Director, Cody, B.C.

Owns and operates the Noble Five, Knoxville, Bonanza King, World's Fair, Maud E., Deadman, Wild Goose and Lucetta claims, located about 3½ miles from the town of Sandon, Slocan District, British Columbia. Mr. Carlyle, when Provincial Geologist, described the property as follows:—

Noble Five Vein.—On the surface in a rocky gulch scoured by snow-slides, are large croppings of iron rock, which on being broken into is found to consist of galena, blende, and spathic iron, while in the mine the ore is arranged along a smooth, slickensided wall that is sometimes on the hanging and then on the footwall side, in bands arranged in one drift with four bands, *i.e.*, spathic iron, blende, spathic iron, and then galena, with fragments of slate scattered through the ore-shute and spurs of ore running off into the country rock. In the early history of this mine, when the costs and difficulties of shipping were excessive and the changes of management often, small drifts were run in on the ledge and the ore extracted in an unsystematic manner, but under the new management the property is being developed in a thorough manner, and the mine placed in a proper condition for its best development and most economical working.

Development.—At 1st May, 1899, the workings of the mine comprised 14,384 feet of tunnelling, with the usual additional workings.

Mining Plant.—3 Ingersoll-Sergeant rock drills; 1 seven-drill Ingersoll-Sergeant compressor; 1 Finlayson aerial tramway, 6,000 feet long; 1 electric dynamo (125 volts).

Concentrating Plant.—A flume brings water from Cody Creek, and in the conveyance of ore from the mine automatical devices have been introduced throughout. At the main working tunnel of the mine, bins of 600 tons capacity automatically discharge into the buckets of the Finlayson double rope tramway, and at the lower terminal the ore drops into the bins of 250 tons capacity, and thence automatically to the 9 x 15 in. rock crusher, and thence to the 200 ton concentrator.

NORTH AMERICAN GRAPHITE CO., Limited.

Authorized Capital, $250,000, in shares of $100.00.

Officers:

N. C. Sparks, Ottawa, President. John J. MacCracken, Ottawa, Sec.-Treas.

Head Office: Elgin St., Ottawa.

Mines Office: Buckingham, Que.

Owns Lot 28, Range 6, Lot 22, Range 5, and part Lot 28, Range 5, in the Township of Buckingham, Ottawa County, Province of Quebec. Equipped with 10-stamp battery, 2 rotary driers, 14 bolting screens, 5 buddles, 2 patent water separators, Raymond mill, etc. The mining plant comprises Ingersoll drills and one Blake ore-breaker. The mill is equipped with 100-light electric plant.

NORTH AMERICAN MINING CO., Limited.

Authorized Capital, $2,500,000, in shares of $1.00.

Directors:

Hon. Richard Harcourt.
Herbert P. Bissell.
Horace Thorne.
Rev. J. H. Starr.
James J. Warren.
J. B. Ferguson.
Hon. Joseph McDougall.
Hon. D. H. McMillan.
W. A. Ferguson.
H. St. Clair Denny.
H. J. Pierce.
N. Stanley Williams.

Head Office: 66 Victoria Street, Toronto, Ont.

This company has been formed to carry on a promoting, prospecting, developing and brokerage business.

NORTHERN EXPLORING SYNDICATE, Limited.

Head Office: 19 St. Swithin's Lane, London, E.C.

This syndicate was registered on the 26th March, 1898, to adopt an agreement with F. R. Burnham, and to acquire mines, grants, concessions, leases, claims, etc., in British Columbia. The authorized capital is £10,030, in 10,000 ordinary shares of £1 each and 30 founders' shares of £1 each. The founders' shares are entitled to one-tenth of the profits.

NORTH FORK MINING CO., Limited.

Incorporated in British Columbia 4th January, 1897. Authorized Capital, $125,000 in shares of a par value of 25 cents.

Officers :

G. W. Hutchings, President.
D. G. Macdonell, Vice-President. W. E. Johnstone, Secretary.
G. F. Baldwin, Treasurer.

Head Office : W. E. Johnstone, Secretary, Vancouver, B.C.

Owns a controlling interest in the Maud S. and Ben Hassen mineral claims, situated on the north fork of the Salmon River, British Columbia.

NORTHERN LIGHT GOLD MINING CO., Limited.

Incorporated 1896. Authorized Capital, $250,000, in shares of $1.00.

Directors :

Jas. Freel. | John Jardine. | John McRobbie.
Dr. E. A. Hall. | J. L. Forrester. | Jas. Maynard.
A. F. McCrimmon.

Head Office: B. F. Atherton, Secretary, 86½ Government St., Victoria, B.C.

Formed to acquire and work the Northern Light mineral claim, situated on Goat Mountain, in the Goat River mining division of West Kootenay, British Columbia. The purchase consideration was $245,000 fully paid up shares in the company.

NORTH HASTINGS MINING AND DEVELOPMENT CO., Limited.

Authorized Capital, $300,000 in shares of 25 cents each.

Directors :

D. W. Livingstone. Hon. J. Enoch Thompson. George Mussen.
George H. Smith.

Head Office : J. Enoch Thompson, Toronto, Ont.

The company owns 800 acres of mineral lands in the Township of Elziver, Province of Ontario.

NORTH STAR MINING AND DEVELOPMENT CO. OF TORONTO, Limited.

Incorporated in Ontario, 21st April, 1897. Authorized Capital, $5,000,000, in shares of $1.00.

Officers:

Hon. Sir Adolphe P. Caron, President, Ottawa.
Hon. Lyman M. Jones, 1st Vice-President, Toronto.
Richard P. Lounsbery, 2nd Vice-President, New York.
R. H. Bowes, Secretary, Toronto. A. A. Taillon, Treasurer, Ottawa.

Head Office: Metropolitan Building, Metcalfe Street, Ottawa.

Directors:

William A. Allan, Ottawa.
A. M. Crosby, Toronto.
D. C. Corbin, Spokane, W.T.
E. B. Garneau, Quebec.
Harold Kennedy, Quebec.
J. W. McRae, Ottawa.
S. Nordheimer, Toronto.
A. W. Ross, Toronto.
A. A. Taillon, Ottawa.
Thomas Walmsley, Toronto.
Hon. Francis Clemow, Ottawa.
J. A. Carlaw, Toronto.
J. Dunsmuir, Victoria, B.C.
George J. Gould, New York.
Hon. James O'Brien, Montreal.
Thomas Marks, Port Arthur.
Charles Riordon, St. Catharines.
R. Wilson Smith, Montreal.
Hon. J. H. Turner, Victoria, B.C.
W. Seward Webb, M.D., New York.
Hon. Peter White, P.C., Pembroke.

NORTH STAR MINING CO., Limited.

Authorized Capital, $1,500,000, in shares of a par value of $1.00. Dividend of 10 per cent paid.

Directors:

D. D. Mann.
William Mackenzie.
Hon. J. H. Thibideau.
H. S. Holt.
J. E. Porteous.

Head Office: D. D. Mann, President, Board of Trade Building, Montreal.

Mine Office: Fort Steele, B.C.

The property owned by this company comprises the North Star, O.K., Dreadnaught, Buckhorn, Rowan Daffodill, Cromarty, Notre Dame, Dorval,

NORTH STAR MINING CO.—Continued.

Maverick, Good Luck, Canton, Full House, Brandon, Stemwinder and Ontario mineral locations, situated near Fort Steele, East Kootenay, British Columbia.

The ore.—(a) Is primarily very clean, solid, argentiferous galena, rather fine grained, with only a small amount of zinc blende, while underlying it along the foot-wall is the "iron ore," or iron and manganese oxides, assaying about 20 ounces in silver per ton. The assay value of the ore as per smelter return is :—

Silver 23.5 oz. to 45.3 oz. per ton ; lead 53 to 68 per cent.

(b) The upper part of the ore chute has been decomposed to a mass of reddish brown, black and yellow oxides and carbonates of iron and lead, with beautiful specimens of moss-like metallic silver and crystals of cerussite. There is a large amount of this ore, and unlike the "carbonate ore" in the Slocan, it carries a higher silver value than the crude or solid galena ore, the value from smelter returns being :—

Silver 52 to 60.8 ounces per ton ; lead 49 to 57 per cent.

In shipping ore a mixture is made of both kinds of ore and then sacked in jute sacks (made in Montreal) so that 16 sacks of the ore weigh one ton, and this is not low grade ore by any means, as is shown by the smelter returns on between two and three thousand tons sold during the past season, when the net or yield values averaged per ton :—

Silver 30 ounces ; lead 55 per cent.

The large size of the ore body is shown in the mine workings. Shaft No. 1 was sunk 67 feet, and at 30 feet a short cross-cut to the west entered the ore, and along this level for a distance of 290 feet north and south a solid body continues, with fine ore in both breasts of the drift, with a thickness of 8 to 20 feet of ore, consisting of solid galena overlaid by decomposed "carbonate" ore, which in one place was fully 15 feet thick. Along the dip this chute is known to be continuous for a width of 40 to 60 feet, and a large amount of ore now stands ready to be broken down. A cross-cut tunnel 400 feet long strikes this shaft at a depth of 60 feet, and continues west in barren ground 90 feet, the rock in the tunnel to the east, *i. e.*, in direction of the dip of the lode from a point 25 feet from the shaft changing from its very hard solid character to a soft decomposed material with no ore, but at 105 feet east of the shaft the tunnel passed through a body 1½ to 3½ feet wide, strike north and south, dip east 60°, of soft yellow colored material, assaying 20 to 25 ounces of silver per ton, with no assay made for lead. Shaft No. 2, sixty-five feet north of No. 1, is sunk to the main work level, and then follows down the foot-wall for 22 feet, along which the ore-body is 6 to 8 feet wide.

NORTH SYDNEY MINING & TRANSPORTATION CO., Limited.

Incorporated 1895. Authorized Capital, $200,000, in shares of $100.

Directors:

John Greener. M. Maury. W. Maury.

Head Office: John Greener, Manager, North Sydney, Cape Breton.

Operates the North Sydney Colliery, at North Sydney, Cape Breton. Opened by adit in at date of last report 950 feet. During the fiscal year ended 30th September, 1897, the output amounted to 4,809 tons, and the sales 5,059 tons; 1898, output 7,186 tons, sales 7,045 tons.

NORTH-WEST DEVELOPMENT CO., Limited.

Incorporated October, 1897, under the Laws of the State of Washington, and registered 20th September, 1898, in British Columbia. Authorized Capital, $600,000, in shares of a par value of $1.00.

Officers:

George Turner, President.
Frank H. Graves, Vice-President. George W. Wooster, Secretary-Treasurer.

Directors:

George Turner. | G. W. Wooster. | W. P. Graves.
Jay P. Graves. | Frank H. Graves. | S. H. C. Miner.
J. P. Whitney.

Head Office: Spokane, Wash.

CANADIAN OFFICE:
W. Yolen Williams, Rossland, B.C.

The objects of this company are to locate, buy, sell and develop mines and mineral claims, to locate water powers, town sites, tramways, electric light and power stations, and develop same, and to do everything right and proper under the law for the location and development of mines and the treatment of the product therefrom, the same as an individual might do, all of which the company has the power granted it to do in the Province of British Columbia, North-West Territories, Canada, Alaska, the States of Washington, Idaho, Montana and Oregon.

The company has acquired the following properties, located in several mining camps in different districts, as follows:—

NORTH-WEST DEVELOPMENT CO—Continued.

In the Fort Steele Mining Division of East Kootenay, B.C., a two-thirds interest in the Fourth of July, Bannock, P. C., Slataddy, Red Mountain, Wilcox, Whistler, Minnie B., Volga, Occident, Kingston, Cliff, Kenneth, Kenwood, Irene, Red Gulch, Alvah, Accident, Wooster.

In West Kootenay District, Ainsworth Mining Division of B.C., a two-thirds interest in the Vulcan, Blue Point, Silver King, Columbia, Sweet Grove, Sunrise, Homestake, Victoria, Silver Queen, Mammoth, Kootenay, Cliff, Silver Dollar, Evening Star, Black Diamond, Sundown, Indian Chief, Great Western, Kootenay, Two-Mile Creek, Primrose, Lubeck, Ibex, Sjurden, Copper Nugget, Emarel, Custer, Emme Rallion.

In the Trout Lake Mining Division of West Kootenay District, B.C., the Duncan Star, Angeles, Olympic, Violet, Odin, Edith No. 3, Dick.

In the south half of the Colville Indian Reservation, Stevens County, Washington, the Astrolath, Granite, Granite Extension, Monitor, Pacific, Wonder, Utah, Exchange, California, Buckeke, Whistler, Muck-a-Muck.

The titles to the above are vested in the company, and considerable work in developing some of these properties has been done; some are only mineral claims with good prospect of being developed into mines. Sufficient space cannot be taken here to give a description of the different properties. Some of them are gold properties only; a number carry gold and copper values; others are silver and silver-lead claims.

NORTH WESTERN ONTARIO EXPLORATION CO., Limited.

Head Office: J. J. Franco, Secretary, 16 Eldon St., London, E.C.

This company was registered on the 5th July, 1897, to search for and explore mines and ground in Ontario. The Authorized Capital is £15,000, in 15,000 shares of £1 each: 10,255 shares have been issued and are fully paid, 5,000 being issued credited as fully paid.

NORTH WESTERN PIONEERS, Limited.

Head Office: A. E. Layzell, Secretary, 45 Lombard St., London, E.C.

This company was registered on the 9th October, 1897, to acquire options over properties in the North Western District of British North America. The Authorized Capital is £27,000, in 25,000 ordinary shares of £1 each, and 2,000 pioneer shares of £1 each: in December, 1897, 20,000 ordinary shares were offered for subscription.

NORTH WEST MINING SYNDICATE, Limited.

Registered in England, 19th June, 1897. Authorized Capital, £20,000, in 20,000 shares of £1 each.

Directors:

E. L. Heatley. Louis Seelig. Harry Butler.

Head Office: George F. W. Pipe, 10 Fenchurch Avenue, London, E.C.

Canadian Office: W. H. Sandford, Manager, New Denver, B.C.

Formed to acquire and deal with mining properties in British Columbia. Owns and is developing the Bosun silver-lead mine, Slocan Mining District, British Columbia. Output in 1898, 420 tons. Opened by 2 cross-cut tunnels to cut vein, and a 75 foot shaft sunk in ore. The position of the company may be gathered from the review of the company's affairs given by the chairman, at the meeting of shareholders, on 21st December, 1898:—

"Our Nominal Capital is £20,000. At the date of the balance sheet, September 30th, 5,100 shares were fully paid and 5,335 shares were 10s. paid, making altogether a total issue capital of 10,435 shares. At that time the unpaid calls amounted to £695, but these arrears have since been removed. Of course, on the 5,335 shares, which formed our second issue of capital, there was still a liability of 10s., but this has since been called up. The bills payable on September 30th amounted to £1,315, and these have since been paid. The cost of properties, options and development work is put down at £6,324; and, in connection with this item, our auditors state—and they do so with the sanction of the Board—that the title to the Bosun Mine is apparently clear, and that the property is vested in the company. I can tell you now that the Bosun Mine is absolutely in our possession, and that the title is entirely clear. With regard to the other options, some of the titles were in the names of individuals at the time the accounts were made up, but they have all since been properly transferred. I may state that I have been out to British Columbia and have incurred considerable expenses in travelling about the country, but I have not charged these. The agent's salary we have paid in one hundred fully paid shares. It was arranged when the company was formed that there should be a certain number of shares at the disposal of the Directors to be given to people who represented us, in order that they should be remunerated in a manner that would give them an interest in the welfare of the concern. Beyond £153, nothing has been paid for the management of the business in London, which has been conducted by my firm, Messrs. Heatley & Co. This arrangement was made in order not to burden you with any heavy expenses until there was something to represent them in the results. The value of the ore shipped from the Bosun

NORTH WEST MINING SYNDICATE—Continued.

Mine up to September 30th was £1,642. This property was originally called the Harris mine, but it has been renamed the Bosun by our manager, Mr. Sandiford. In justice to him, I do not think it would be proper to consider that it was merely by chance that we secured it. While in British Columbia certain properties were placed before me, and on my return I discussed the apparent merits of them with my colleagues. One of these properties was known as the Fidelity, which, so far as it had been opened up, had a very good showing. I told my colleagues that I must confirm the statement which had been made to us that British Colnmbia was full of opportunities, but that the most important matter undoubtedly, was to have the right person to represent us in the Province. I told them that we wanted a person of large mining experience, and in whose integrity we could absolutely rely. They concurred with me in the opinion, and when we had the opportunity of obtaining Mr. W. H. Sandiford, I considered that we were fortunate in securing his services. In due course he inspected the Fidelity Mine, but he reported that he could not advise us to take the property up. He said it was a very promising mine, but he considered that the price asked for it was excessive. He stated that he always believed that the ore body found in the Fidelity Mine was tending downwards into an adjoining property. He had been quietly examining this property, with the view of discovering whether the same lode that was being worked in the Fidelity, existed in this ground as well, and considered the Harris property, now called the Bosun property, would be found to be the key to the two properties above it—the Fidelity and the Frisco. He also stated that the Bosun property was most admirably situated for mining operations, as it abutted absolutely on to the lake, and, therefore, the transport of the ore would cost a very small sum; while, in addition, shipments of ore could be made all the year round. Mr. Sandiford proceeded to continue the work of sinking upon the lode, and on August 1st he reported that he had 2 feet of strong ore in the shaft; while on September 1st he advised us that he was sinking in 4 feet of strong galena. He then commenced to run two tunnels from the surface, at right angles, of course, to the shaft. One of these is 76 feet below the top of the shaft, and the second is another 75 feet below that point. I have the satisfaction of informing you to-day that the first tunnel has been driven into the rich ore-chute which Mr. Sandiford found in sinking the shaft. It looks very likely that there are other ore-chutes to be found, as has been shown by the ore that he has discovered in driving the No. 2 tunnel. The ore is exceedingly valuable—probably the most valuable ore that is found in any part of the world. We have obtained from 300 tons of ore which have been shipped to the smelters, $20,577, or about a net return of £13 10s. per ton. The cost of transporting the ore to the lake is extremely moderate, about $1 per ton I think, and no doubt that amount will be further reduced. We are now

NORTH WEST MINING SYNDICATE—Continued.

spending about £600 per month, and we have been obtaining 100 to 120 tons of ore in the same period, worth from £1,300 to £1,600. Wages are, of course, high in the district. As to the prospect of earning dividends, I can inform you that Mr. Sandiford has financed his operations during October and November out of proceeds of ore from the Bosun, besides having remitted £2,000 to this side, and I believe that on the 120 tons of ore that we shipped in November we shall have a net profit of over £1,000, while there is every prospect that we are going to continue to obtain good ore. We have about £5,500 of our capital still unexpended, besides our properties. No remuneration has been received, so far, by the Directors."

NORTH-WEST ONTARIO MINING & DEVELOPMENT CO., Limited.

This Comppny was recently registered in London, with a Capital of £50,000, in shares of £1, to acquire a mining property, comprising 39 acres on Shoal Lake, Lake of the Woods, Ont.

Directors:

C. J. Ponsonby, London, England, Chairman.
George Deas, London.
T. Wentner Smith, London.
W. H. Moresby, London.
James Hills, Wellington, Surrey, England,

Advisory Board in Canada:

The Hon. J. N. Kirchoffer, Brandon, Man.
J. M. Savage, Rat Portage, Ont.
C. W. Chadwick, Rat Portage, Ont.
John F. Talbutt, Mining Engineer, Rat Portage, Ont.

NORWAY GOLD MINING CO., Limited.

Incorporated under the Laws of the State of Washington. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

D. J. Hughes, President.
W. F. Chase, Vice-President. C. F. Clough, Secretary-Treasurer.
L. F. Clough, Assistant Secretary.

Head Office: Spokane, Wash.

Canadian Office: Rossland, B.C.

Owns the Norway claim, situated on the south-east slope of O. K. Mountain, about two miles west of Rossland, B.C.

NOVA SCOTIA STEEL CO., Limited.

Reconstructed in 1895, being an amalgamation of the New Glasgow Iron, Coal and Railway Co., Limited, and the Nova Scotia Steel and Forge Co., Limited. Authorized Capital, $5,000,000, in shares of $100; issued, $2,030,000.

Directors:

John F. Stairs, Halifax, President.

Graham Fraser, Vice-President.	E. F. McKay, New Glasgow.
John McNab, Halifax.	Frank Ross, Quebec.
J. W. Allison, Halifax.	George Stairs, Halifax.
J. D. McGregor, New Glasgow.	Henry S. Poole, Stellarton.

Head Office and Works: T. Cantley, Secretary, New Glasgow, N.S.
Mine Manager: R. E. Chambers, M.E.

Formed to take over the business, franchise, undertaking, property rights, privileges, and assets of the Nova Scotia Steel and Forge Co., Limited, and the New Glasgow Iron, Coal and Railway Co., Limited.

Blast furnace at Ferrona, connected with the mines, limestone quarries and Intercolonial Railway by company's own railway, at present completed for a distance of 13 miles. It is of modern design and fitted up with the most approved appliances. The clear lines inside the brick work are: Height, 65 ft.; bosh diameter, 15 ft.; crucible diameter, 9 ft. 6 in. There are eight tuyers and two cinder notches. The casting house is 50 ft. by 153 ft., constructed of iron. The furnace has two down-comers (gas flues), one carrying gas to the hot blast stoves, the other leading to the boilers. There are three hot blast stoves, of the 3-pass Massick and Crook type, each stove being 16 ft. 6 in. in diameter, inside of the shell, and 60 ft. in height. There is also a chimney on each stove 35 ft. high. Each stove is lined with 160,000 fire brick. The blast is produced by two blowing engines, each weighing about 90 tons, having steam cylinders 36 in. in diameter, air cylinders 84 in. in diameter, and a 4 ft. stroke. The engines are placed in a brick building designed for strength, and 35 by 60 ft. Steam is generated in a battery of eight boilers, set in pairs, tubular, and designed to carry a pressure of 100 lbs. Each boiler is 6 ft. in diameter, 20 ft. long, and contains 52 tubes each 4½ in. in diameter. The fuel used is waste gas from the furnace, the draft being produced by an iron chimney 125ft. high and 7 ft. 6 in. in diameter, and lined with fire brick 4 in. in thickness. The water supply is pumped from the East River into a stand pipe 10 ft. in diameter and 80 ft. high. There is a large ore shed, hoist, scales, etc.

Coal washing plant was put in successful operation in May, 1892, and is the first of its kind erected in Canada. The coal is elevated, screened, and the large coal crushed. The resulting fine coal is separated into three sizes:

NOVA SCOTIA STEEL CO.—Continued.

Nothing to one-eighth inch, one-eighth to one-quarter, one-quarter to three-eighths. The coal is washed on two compartment feldspar jigs arranged with variable stroke. The washed coal is removed by elevation to a storage tower, and the refuse led to a convenient dumping place. The water used is raised by a centrifugal pump and after performing its round of work returns again to the pump. The entire plant works automatically, requiring the services of three men.

The coal washed contains from 17 to 35 per cent. of ash, besides 2½ per cent. of sulphur. The washed coal contains on the average 10 per cent. of ash, or 1 per cent. more than the fixed ash, 9 per cent of the coal. This is a remarkably good showing, and seldom surpassed. The fixed ash, of course, cannot be reduced. The sulphur is reduced by washing to 1.35 per cent., that being partially organic and partially fixed with lime or alumina. The total capacity of the plant is 300 tons of washed coal in ten hours. The average cost of washing, winter and summer, is put at 7½ cents.

Coking Plant.—This is situated near the coal washer, and contains 54 retort coke ovens of the Bernard system (improved Copee), of the following dimensions: Length, 33 ft.; height, 6 ft. 6 in. (under roof); medium width, 23½ inches. Each oven is charged with abont 7 tons of washed coal (all below ⅜ in. mesh), every 40 or 48 hours; the 54 ovens produce every 24 hours between 115 and 120 tons of first-class large coke, which is all used in the blast furnace of the company. The coal used yields 73 or 74 per cent. of large coke right along; the same coal only yields 60 per cent. max. in the bee-hive oven. Each oven can supply 130 to 150 square ft. of boiler surface for steam raising if desired. Each two ovens work together, and for this reason the ovens are charged alternately; one day the ovens 1, 3, 5, 7, 9, etc., uneven numbers are pushed; the next day the even numbers, 2, 4, etc., are discharged; this arrangement makes it possible to work a hot and cold oven together, to utilizing the surplus heat of the hot oven to heat the cold (freshly charged) oven. After the process of coking is finished the doors at both ends of the respective ovens are lifted by means of windlasses, and the ram now pushes the whole cake of coke out of the retort, landing it clear of the ovens on the discharge side, where it is water-cooled. As soon as the coke is pushed out by the ram of the coke-pushing machine, the oven doors are re-closed and sealed air-tight with ordinary clay; the coal to be charged is now dumped into the ovens through the charging holes 15, 15, 15, and levelled in the usual way.

The main advantages of these retort ovens, without saving of tar and ammonia, over the bee-hive oven, are as follows:

1st. A larger yield, 12 to 15 per cent. at least.

2nd. Considerable lower cost of coke making (labor—expenses.)

3rd. All coke produced is large and strong, there is less than 3 per cent. of fine coke (braise).

NOVA SCOTIA STEEL CO.—Continued.

4th. Larger production per oven.

5th. Fewer repairs.

6th. Owing to the high temperature carried and to the high and narrow column of coal (6 ft.) inferior coking coals can be successfully coked, also a mixture of coking and non-coking coal.

Ore Deposits.—The ore occurs at the junction of the carboniferous and silurian formations, in bodies of large size, which are opened at different points in the East River, extending over a distance of five miles. The ore is won by shafts or inclines according as the pitch of the ore is more or less inclined.

The amount of ore mined is about 4,000 tons per month, including both brown and red hematites.

During 1894 this company acquired, and now operates, a mine of iron on Bell Island, Conception Bay, Newfoundland.

Ore Washing Plant—The principal impurity in the ore is clay, which is easily and cheaply separated by washing. The washer used is a section of a conical revolving drum with inclined blades or fins on the inside, which work the ore from the large to the small end; while the water (from a Cameron pump) enters at the small end of the drum, washing the clay from the ore which it meets in its descent, and discharging it in spouts, which lead to the settling pond. The ore is discharged from the small end of the drum into a bin, and from thence into the cars.

Steel Works at New Glasgow.—The plant comprises three Siemens melting furnaces; two of these have a capacity of 20 tons each and the other a capacity of 35 tons. These three melting furnaces are served by one Chaplin's pat. 3-cylinder 50 ton steam cranes, having a clear span of 50 ft. with traverse, longitudinal, and hoisting motions, and will lift 50 gross tons; three gas heating furnaces; five reverberatory heating furnaces; 26 in. reversing cogging mill, with train of live rolls and hydraulic ingot manipulators; heavy vertical hot billet shears, with live rolls; one 20 in. plate mill; one 16 in. bar mill; one 12 in. bar mill; one 9 in. guide mill. 12 pair shears, 40 tons and smaller; one 5-ton steam hammer, with 15-ton hydraulic crane; four smaller steam hammers; machine shop, 175 ft. x 75 ft. with 30 ton travelling crane commanding whole shop, equipped with 30 in. slotter, 6 drills (one a 9 ft. radiaal, 5 in. spindle), 9 lathes, one of which will take in 50 in. over carriage, and 8 ft. x 10 ft. in the gap, will take 37 ft. between centres; also 6 large gap and other lathes, small shapers, etc. Power is supplied by some 50 steam and 10 hydraulic cylinders. Entire works are lighted by arc and incandescent light plant. Output 150 tons of steel ingots per day, all of which are worked up into bars, sheets, axles and other forg-

NOVA SCOTIA STEEL CO.—Continued.

ings. Over 100,000 axles of this company's make have been supplied to Canadian railways.

OUTPUT, 1897.

	Gross tons.
Steel ingots made	17,000
Pig iron made	20,090
Ore charged	39,290
Fuel charged	31,965
Flux charged	16,965

MINES OUTPUT, 1897.

	Gross tons.
Iron ore mined by company in Newfoundland	*10,690

*Imported for own use.

Iron ore output mined by company in Canada	13,600
" " purchased in Canada	11,970
" " " Europe	3,416
" " " Cuba	14,950
Limestone mined	16,850

OUTPUT, 1898.

	Net tons.
Pig iron made	21,627
Steel made	23,541
Forgings made	2,276
The material used being as follows :—	
Coal	170,000
Canadian ore	19,000
Newfoundland ore	15,000
Spanish or Cuban ore	6,000
Coke	32,000
Limestone	18,000
Average number of men employed	750
Wages paid about	$280,000

DIRECTORS' REPORT.

16th February, 1899.

Your Directors submit herewith the fifth report, general statement of assets and liabilities, and abstracts of profit and loss and reserve accounts, for the period of six months ended December 31st, 1898, in accordance with the by-law adopted by the shareholders at their last Annual General Meeting.

NOVA SCOTIA STEEL CO.—Continued.

The volume of business done during the past six months was proportionately larger than during the previous year, but the prices realized were somewhat lower. Since the 1st of January there has been an improvement in the price of iron and steel in the United States, the effect of which has been partially felt here, and it is expected that during the year 1899 higher prices may be obtained.

The contracts for the sale of the Wabana iron ore in Europe, which were referred to in the last Annual Report, have been completed, and show a small profit, notwithstanding the high rates of freight paid, owing to the Spanish-American war. About 180,000 tons have been sold for 1899. The required increased mining facilities and storage capacity, referred to in the last report, are about completed, so that the company is in an excellent position to handle the shipments for this year. A number of steamers have been chartered for 1899, at more favorable rates, and with the experience gained, shipments this year should show a better result.

As shown by the statement of assets and liabilities, $73,011.01 have been expended on capital accounts for increased mining facilities and storage capacity at Wabana, and the plants at the Steel Works and Ferrona.

The gross profits for the half year ended December 31st, 1898, amount to		$81,105 98
Less interest on bonds, floating debt, etc		19,561 31
		$61,544 68
To which is added the balance brought down at credit of profit and loss, July 1st, 1898		14,456 80
Leaving balance at credit of December 31st, 1898		76,001 47
Which your Directors recommend to be distributed as follows:—		
Reserve for bad debts	$ 1,250 00	
Depreciation	10,000 00	
Sinking fund	6,000 00	
		17,250 00
To be carried forward at credit of Profit and Loss acct.		$58,751 47

GENERAL STATEMENT OF ACCOUNTS FOR THE HALF YEAR ENDED DECEMBER 31ST, 1898.

Assets.

Mining properties	$1,173,497 93	
Blast furnace plant	325,792 89	
Railway and rolling stock	207,269 83	
Real estate, plant, etc	659,236 24	
Mining machinery	169,811 25	
		$2,535,608 14

NOVA SCOTIA STEEL CO.—Continued.

Pig iron, ore, coke, etc., at Ferrona	$167,884 71	
Supplies:—Furnace sand, fire brick, oils, etc.	20,817 16	
Pig iron and steel at Trenton	139,893 87	
Coal	3,212 01	
Ledger accounts	$126,786 32	331,807 75
Eastern Trust Company	44,788 98	
		171,575 30
		$3,038,991 19

Liabilities.

Capital stock—Preference	$1,030,000 00	
" Ordinary	1,030,000 00	
" Mortgage bonds	99,500 00	$2,159,500 00
Cash advances, unpaid accounts and bills payable		577,056 23
Depreciation	177,436 93	
Furnace renewals	3,336 72	180,773 65
Sinking fund		44,788 98
Reserve for bad debts		18,120 86
Profit and loss		58,751 47
		$3,038,991 19

ABSTRACT OF PROFIT AND LOSS ACCOUNT.

To reserve for bad debts	$ 1,250 00
" depreciation	10,000 00
Sinking fund	6,000 00
Interest on mortgage bonds, floating debt, etc	19,561 31
Balance carried forward	58,751 47
	$95,562 78
By balance	$14,456 80
Gross profits for the half year	81,105 98
	$95,562 78

ABSTRACT OF RESERVE ACCOUNT.

To balance carried forward	$18,120 86
By balance at June 30th, 1898	$16,870 86
Profit and loss	1,250 00
	$18,120 86

NOVELTY, MINING AND SMELTING CO., Limited.

Incorporated in British Columbia, 29th July, 1898. Authorized Capital, $150,000, in 1,500,000 shares of a par value of ten cents.

CANADIAN OFFICE:

Rossland, B. C.

Formed to ratify, enter and carry into effect, with or without modification, alteration or amendment, an agreement which has been already entered into between the owners of the Novelty mineral claim, situate in the Trail Creek Mining Division of West Kootenay District, in the Province of British Columbia, and which agreement has for its object the conveyance to this company of said mineral claim and mining property on the terms and conditions in said agreement mentioned, &c.

NUGGET GOLD MINING CO., OF RAT PORTAGE, ONT., Limited

Incorporated February 12th, 1897. Authorized Capital, $50,000, in shares of $1.00 each.

Directors:

D. E. Adams, Winnipeg, Man
A. Hartstone, " "
J. Dick, " "
H. Kobold, Winnipeg, Man
J. C. Simpson, " "
R. A. Harvie, " "
R. Hall, Rat Portage, Ont.

Formed to carry on in all its branches the business of a mining, milling, reduction and development company.

OKANAGAN AND KOOTENAY DEVELOPMENT SYNDICATE, Limited.

Registered 12th February, 1898. Authorized Capital, £10,000, in 10,000 shares of £1 each; in January, 1898, 9,000 shares were offered for public subscription.

Directors:

W. Adams — Charles Hedley Allen — A. Hollingshed

Advisory Board in Canada:

W. Hanson Boorne — P. R. Ritchie

OKANAGAN AND KOOTENAY SYNDICATE CO.—Continued.

CANADIAN OFFICE:
Granville Street, Vancouver, B.C.

Head Office: W. H. Darvell, Secretary, 3 Pancras Lane, Queen Street, London, E.C.

Formed to carry on exploration, trading, finance and agency business in the Province of British Columbia. By contract dated 21st December, 1897, between John Henry Coley and Wm. Henry Darvell, as trustee for the Syndicate, the said John Henry Coley undertook to bear all the expenses incidental to the incorporation and promotion of the Syndicate (except brokerage) in consideration of the allotment to him of 1,000 shares of the Syndicate credited as fully paid.

OLD FLAG GOLD MINING CO., Limited.

Capital, $1,500,000. Shares, $1.00 each.

Directors:

Chas. M. Carpenter — Robert Dixon — John E. Crane — John B. Henderson

Head Office: Rossland, B.C.

Formed to acquire the mineral claims known as the Eureka, Esmeralda, and Old Flag, situate in the Trail Creek Mining Division of West Kootenay District, British Columbia.

OLD GOLD QUARTZ AND PLACER MINING CO., Limited.

Incorporated in British Columbia, 9th January, 1897. Authorized Capital, $1,500,000, in shares of a par value of $1.00.

Officers:

J. M. Miller, President and Treasurer.
Geo. N. Taylor, Vice-President. M. F. Chesnut, Secretary.

Head Office: Rossland, B.C.

Owns and is developing the Grace C. group of claims on the North Fork of Salmon River, about ¾ of a mile north of the North Fork Station on the Nelson and Fort Sheppard Railway and the Lillian Bay Group, in the same district, the whole comprising six full claims, or about 300 acres.

OLGA GOLD MINING AND MILLING CO., Limited.

Re-registered in British Columbia, 27th December, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Head Office: J. W. Rolt, Rossland, B.C.

Owns and is developing the X Ray and Olga mineral claims, situated on the lower end of Sophia Mountoin, British Columbia.

OLD IRONSIDES MINING CO., Limited.

Incorporated 1895. Authorized Capital, $1,000,000.

Directors:

S. H. C. Miner, S. E. Rigg, J. P. Graves, C. E. Gault, W. A. Ritchie

Head Office: J. W. Penfield, Secretary, Spokane, Wash.
Jay P. Graves, Manager.

Mines Office: W. Yolen Williams, Mine Superintendent, Greenwood, B.C.

Owns the Old Ironsides mineral claim, Greenwood Camp, Yale District, Province of British Columbia, on which development work is proceeding. Equipped at date of report with 10-drill Rand compressor, Bacon hoisting engine, Cameron pumps and other working plant. During the year 1898 the shaft has been deepened to 200 ft., at which level a 273-ft. cross-cut has been run, passing through 240 ft. of ledge matter, of which about 83 ft. is stated to be pay ore. The work now in hand is an upraise of nearly 160 ft., to connect with a prospect shaft about 50 ft. in depth, to ensure better ventilation. It is claimed that much of the Old Ironsides ore averages $25 in all values. The ore dump contains about 2,000 tons.

OLIVE GOLD MINING CO., OF SEINE RIVER, Limited.

Incorporated February, 1897. Authorized Capital, $1,000,000, in shares of $1.00.

Directors:

Hon. Geo. E. Foster, M.P., Ottawa.
Wm. Blackwood, Dr. R. M. Simpson
A. T. R. Blackwood, Dr. A. H. Simpson
All of Winnipeg.

OLIVE GOLD MINING CO.—Continued.

Head Office: Clifford B. Deacon, Secretary, Winnipeg, Man.

Mines Office: Mine Centre, Ont.

This company owns and is developing mining location G 60, G 61, G 69 and H P 439, comprising 290 acres on Turtle Lake, Seine River, Province of Ontario, upon which is the "Olive" gold mine. Equipped with 10-stamp battery and other plant.

OMENICA CONSOLIDATED HYDRAULIC MINING CO.

Incorporated 1896. Authorized Capital, $100,000, in shares of $1.00.

Directors:

Wm. Munsie, Victoria, President.

Thos. B. Hall	Dr. G. L. Milne
J. W. Ladd	R. T. Williams
J. W. Moore	Capt. C. E. Clark

Head Office: J. T. Bethune, Sec.-Treas., Victoria, B.C.

Mines Office: Capt. C. N. Black, C. and M. E., Omenica, B.C

Formed to acquire and work seven placer claims and leaseholds, situate on Manson, Black Jack Gulch, and Lost Creeks, in the Omenica district Province of British Columbia.

ONAPING GOLD MINING CO. OF ONTARIO, Limited.

Incorporated 1898. Authorized Capital, $499,000, in shares of $1.00 each.

Directors:

F. N. Lloyd, East Toronto, Ont	E. Beeton, Toronto, Ont
J. J. Thompson, Toronto, Ont	T. Armstrong, Toronto, Ont

A. J. Kappelle, Toronto, Ont

Formed to carry on in all its branches the operations of a mining, milling, reduction and development company.

ONTARIO AND RAINY RIVER CONTRACTING & SUPPLY CO., Limited.

Incorporated April 13th, 1899. Authorized Capital, $80,000, in shares of $1.00 each.

Directors:

Jas. Conmee, Port Arthur, Ont A. W. Thompson, Port Arthur, Ont
A. J. McComber, Port Arthur, Ont.

Head Office: Port Arthur, Ont.

Formed to carry on in all their branches the operations of a mining, milling, reduction and development company.

ONTARIO AND KOOTENAY PROSPECTING AND DEVELOPMENT CO, Limited.

Incorporated under Dominion Statutes, 4th May, 1897. Authorized Capital, $6,000, in 60 shares of a par value of $100.

Directors:

William Bell George Byron Ryan John Flett
Archibald Henry Macdonald Alexander Stewart

Head Office: Guelph, Ont.

Formed for the purposes of prospecting, developing, acquiring, purchasing and disposing of mineral (including coal petroleum) properties, claims and shares and interests therein and in mining companies in the Provinces of Ontario, British Columbia, and elsewhere, within the Dominion of Canada.

ONTARIO AND SLOCAN MINES DEVELOPMENT CO., Limited.

Incorporated in British Columbia, 10th March, 1897. Authorized Capital, $450,000, in 1,500,000 shares of a par value of 30 cents each.

Officers:

Geo. Sleeman, Guelph, President.
G. B. Ryan, Guelph, Vice-President.
W. E. Buckingham, Guelph, Secretary-Treasurer.
W. H. Brandon, Manager, Slocan City.

Directors:

C. Klopefer, M.P.
F. C. Keleher
T. T. Coffee
J. A. McHardy
Prof. Jas. Mills
George Newton
George H. Cowan
T. W. Holland
D. H. Wilson
J. R. Seymour
D. I. Brandon
W. H. Brandon

ONTARIO AND SLOCAN MINES—Continued.

Head Office: Silverton, B.C.

Ontario Office: Guelph, Ont.

Owns and is developing the Canadian Group of silver lead claims, comprising: Adams, 50.78 acres; Brandon, 35.3 acres; Katie D., 24.1 acres; Sarah B., 51.1 acres, and the Hill Top Fraction, situated on the Divide between Carpenter and Four Mile Creeks, two and one-half miles from the town of Sandon and six miles from Silverton, B.C.

Reporting to the shareholders under date of 25th October, 1898, W. H. Brandon, the company's manager, writes:—

Early in June, 1897, I commenced active work on No. 1 vein on the Adams claim, as shown on the plan of the workings which accompanies this report, where a tunnel was run in on the vein a distance of 265 feet, giving a depth of 200 ft. At a distance of 50 ft. from the mouth of the tunnel we encountered a body of concentrating ore from 8 to 10 ft. in width, which continued for a distance of 110 ft.; from the end of this ore chute for a distance of about 30 ft no ore was met, but after that distance had been covered we struck a chute of very high-grade ore 18 in. in width, giving assay values at this point of 140 oz. silver, and 62 per cent. lead. In the course of development work in this tunnel we shipped two cars of ore to the Omaha & Grant Smelting Co., of Omaha, Neb., one of which contained 34,510 lbs. of ore and yielded $1,127, after payment of duty, freight and treatment, or an average value per ton of 119 oz. silver and 58 per cent. lead, and the second containing 39,164 lbs. of ore, yielding $1,194.99 also net, or an average value per ton of 107.6 oz. silver and 56.4 per cent. lead, and leaving on the dump between 175 and 200 tons of ore, which will concentrate four to one, giving an average yield of 140 oz. silver and 65 per cent. lead. No stoping was done to procure this ore. The ground left from this development available for stoping will yield from 5,000 to 6,000 tons of concentrating ore of equal value to that shipped, which should yield on the same basis from $100,000 to $125,000 net value.

Having thoroughly satisfied myself as to the permanency of the vein, and that the ore chute continued downward, I at once commenced running a tunnel 500 ft. below tunnel No. 1 in order to reach the same ore body as exists there, and from which such valuable returns have been obtained; it will be necessary in order to get under the ore body referred to, to run this tunnel a distance of about 800 ft., (which when completed will give a vertical depth of 500 ft.), and of this 400 are already completed, rendering necessary an additional 400 ft. to reach the desired point—a contract for a further 200 ft. has been let and upon which active work is being carried on. In the course of this 400 ft. two very encouraging chutes of concentrating ore were encountered; no attempt, however, was made to cross-cut to ascertain the

ONTARIO AND SLOCAN MINES—Continued.

extent of these chutes as I am anxious to carry my workings through to tap the ore body referred to in No. 1 tunnel.

Some explanation is necessary here to show why I constructed my lower tunnel so great a distance from No. 1 as 500 ft.; and in order to do so it is necessary to state that, on this particular portion of the property, great danger exists in the winter from snow slides, and in order to ensure absolute safety of approach to the workings, it was necessary to construct a snowshed, which has been done by the running of a tunnel some 260 ft. in length.

During the summer season tunnels can be run at the various distances it is thought desirable, to complete the laying out of our development work, with a view of reaching at great depth the ore body which is shown to exist in tunnel No. 1, and to facilitate the economical handling of our output, the tunnel comprising the snowshed being practically a continuation of tunnel No. 2, and can be used in all seasons in conjunction with that.

No. 3 tunnel is run in on No. 3 vein, which outcrops also on the Adams ground, is 40 ft. in length, showing 10 inches in carbonates, which averages 20 oz. silver and 10 per cent. lead. I am satisfied that further work at this point will lead to satisfactory results.

In addition to the tunnels referred to I have made open cuts of about 10 ft. in depth along the course of the outcrop on the surface about 150 ft. apart for a distance of 750 ft.; in all these open cuts I found excellent showings, in some carbonates, some concentrating and some clean ore, proving conclusively the continuity of the vein, and from which most satisfactory results may be expected through thorough and systematic development."

ONTARIO BOULDER MINING CO., Limited.

Authorized Capital, $2,000,000, in shares of a par value of $1.00.

Directors:

E. T. LeClair. C. M. Clark. C. G. Nielsen. Col. F. C. Burrows. W. D. Graham.

Head Office: John R. Gifford, Mine Manager, Rat Portage, Ont.

Owns and is developing Mining Locations S. 141, F.M. 45, E. 281, E. 282, comprising 371 acres, and situated in the Camp Bay District, Lake of the Woods, Ontario. Opened at date of report by two shafts down 200 feet and 70 feet respectively. The mining plant comprises:—

Compressor, one Rand 6-drill compressor; drills, three Rand; boilers, two 50 h.p.; hoisting engine, one single drum, 3 ft. dia., cyls, 8 in. x 12 in., pumps, one Duplex 7½ x 4½ x 10

ONTARIO EXPLORATION AND DEVELOPMENT CO., Limited.

Registered 19th January, 1897, and is a reconstruction of the Ontario Exploration Company, Limited. The Authorized Capital is £150,000, in 150,000 shares of £1 each: 75,000 shares have been issued credited as fully paid.

Directors:

W. S. Ferguson. Harold Thomas. A. G. Ross. W. G. Holman. Captain Inman.

Head Office: 61-62 Broad St. Avenue, London, E.C.

The Ontario Exploration Company was registered on the 10th May, 1895, as the Yellow Girl Gold Mine, Limited, to acquire certain mines in the Province of Ontario. The present syndicate, at date of report, contemplated an amalgamation with the Seine River (Ontario) Gold Mine, Limited.

ONTARIO GOLD FIELDS MINING AND DEVELOPMENT CO., Limited.

Incorporated in Ontario, 6th January, 1897. Authorized Capital, $2,500,000, in shares of a par value of $1.00.

Officers:

Edward Morgan, Toronto, President.
Miles Vokes, Toronto, Thomas Elliott, Brantford, Ont., Thomas Beattie, M.P., London, Ont., Vice-Presidents.
W. J. Wallace, Toronto, Treasurer. William Johnston, Toronto, Secretary.
E. Wallace, Toronto, General Manager.

Directors:

Edward Morgan	Miles Vokes	James S. Fullerton
W. B. Newsome	E. Wallace	E. R. Cameron
Alfred Robinson	Thomas Beattie, M.P	W. J. Wallace
Dr. R. J. Wilson	Thomas Elliott	Dr. Nelson H. Beemer

Head Office: Canada Life Building, Toronto.

Formed to deal in, purchase, develop, lease and sell mining properties, and do all things pertaining to the mining of gold, silver, copper and other minerals, also to send out its own prospectors and locate mining claims, develop and sell the same, and to work mines for the dividends they will pay, also to do a general brokerage business in mining stocks. To form stock companies to purchase from this company any one or more of its mining

ONTARIO GOLD FIELDS—Continued.

claims after they have been developed and their value proven. To sell a portion of such company's stock, to procure money for the further development and improvements on the property turned over to the said new company, and to retain a large portion of said new company's stock in the Development Company's treasury, which may be sold after the new company's properties have been improved and the price of its stock has advanced, thus adding valuable assets to the Development Company's treasury.

ONTARIO GOLD REEFS, Limited.

Offices: 22 Great Winchester Street, London, E.C.

This company was registered on the 16th October, 1897, to acquire mining properties, covering about 850 acres in the Lake of the Woods, Seine River and Manitou Districts of Ontario. The purchase consideration was £75,000. It is intended to develope the properties and form subsidiary companies. The Authorized Capital is £100,000, in 100,000 shares of £1 each.

ONTARIO GOVERNMENT GOLD CONCESSIONS, Limited.

Registered 29th May, 1897. Authorized Capital is £80,000, in shares of £1—£70,000 ordinary and £10,000 deferred. The ordinary shares rank first for 10 per cent. dividend, and if any surplus one-half is to go to the ordinary and one-half to the deferred. Of the ordinary capital £45,000 has been subscribed and £22,500 called up, 30,000 shares having 5s. called and the remainder being fully paid.

Directors:

Hon. C. M. Knatchbull-Hugesson, Chairman.
E. M. Bovill J. Reid

Head Office: H. St. J. Hodges, Secretary, Finsbury House, London, E.C.

CANADIAN AGENT:

T. R. Deacon, C.E., Rat Portage, Ont.

To acquire a concession granted by the Ontario Government; to explore for minerals and develop mines in the Rainy River and Lake of the Woods District, over an area of about 100 square miles.

ONTARIO GRAPHITE COMPANY, Limited.

Incorporated 1896. Authorized Capital, $200,000, in shares of $100.

Directors :

G. P. Brophy J. B. Brophy. S. H. Fleming J. W. McRae
Hector McRae

Head Office: Victoria Chambers, Ottawa.

Owns and operates a property comprising lots 16, 17, 18 and 19, at White Fish Lake, Township of Brougham, Province of Ontario. Worked by open cuts. Output shipped *via* Calabogie station on the Kingston and Pembroke Railway, to Ottawa, where a small milling plant has been erected.

ONTARIO LANDS AND OIL COMPANY, Limited.

Directors:

J. W. Maclure, M.P., Chairman.
Maj. A. E. Baldwin J. W. Brigstock J. F. H. Read
G. Rogers, Secretary

Office: 1 Pinner's Hall, Great Winchester Street, London, E.C.

The company was registered June 28th, 1892, to acquire the properties of the Western of Canada Oil Lands and Works Company, Limited, registered December 23rd, 1871, and reconstructed in 1877. In the 1892 reconstruction of the old company, the share capital was reduced largely, the old debentures being converted into shares. The Authorized Capital is £135,000, £60,000 being in 6 per cent. preference shares of £10, £60,000 in ordinary shares of £10, and £15,000 in deferred shares of £2 10s. After payment of the preference dividend the ordinary shares take 6 per cent per annum, and any surplus is to be divided, half amongst the ordinary, and half amongst the deferred shares. Of the preference capital, £55,440, and a similar amount of ordinary, together with £10,330 of the deferred, have been subscribed and paid up. There is also a loan of £1,900. The accounts are made up annually to June 30th, and submitted in November. Debit balance for 1892-93, £1,003, increased in 1893-4 to £4,762, in 1894-5 to £5,757, and reduced in 1895-6 to £4,398, and converted in 1896-7 into a credit balance of £69.

ONTARIO, Limited.

Registered 31st January, 1895, as the Murchison Gold Fields, Limited. Authorized Capital, £100,000, in shares of 5s., of which £40,109 have been subscribed and 34,865 called up, 20,600 shares being fully paid, and the remainder having 4s. 3d. called up.

Directors:

Col. W. J. Engledue, Chairman.
A. G. Shaw A. Q. Twiss.

Head Office: A. Hebden, Secretary, Blomfield House, London, E.C.

CANADIAN OFFICE:
— Engledue, Manager, Rat Portage, Ont.

To deal with mining properties in Western Australia, and reconstructed under the above title early in 1897 and registered 28th January, 1897. The company now owns 110 acres on Shoal Lake, Lake of the Woods, Ont.

ONTARIO-VICTORIA MINING CO., Limited.

Incorporated February 28, 1899. Authorized Capital, $950,000, in shares of $1.00 each.

Directors:

C. S. Botsford R. L. Patterson H. Lowndes H. Barber
F. Donovan—All of Toronto, Ont

Head Office: H. O. W. Higgins, Secretary, 62 Victoria St., Toronto.

Formed for the purpose of purchasing the properties and interests of two organizations known as the Victoria Mining Company, Limited, and the Botsford Reef Syndicate, and further, to carry on the work begun by those companies on a more extensive scale. The basis on which this purchase was made was as follows: Out of the capitalization of 950,000 shares, 275,000 have been allotted to the members of the two above mentioned organizations, they transferring their entire interests to this company in consideration of the above mentioned shares. These "vendors' shares" will be pooled until such a time as either 500,000 shares of the treasury stock of the company is sold or the company should pay a dividend, and under no circumstances can the stock be sold or transferred until the above conditions are complied with.

The properties comprise: Botsford Reef, R. J. 18, R. J. 20 and R. J. 21, Rainy River District, N.E.; D. 272, D. 273, Islands, Lake of the Woods District; A. L. 221, A. L. 222, 110 acres, Jackfish Bay District.

ONTARIO PEAT FUEL CO., Limited.

Incorporated 1892. Authorized Capital, $300,000, in shares of $100.

Directors:

A. A. Dickson, President.

A. Jardine
W. A. Allan
W. B. Bayly
George H. Perley
Hon. R. M. Wells
J. R. Silliman

Head Office: J. R. Silliman, Secretary-Treasurer, Room 29, Bank of Commerce Building, Toronto.

This company has purchased the right to take and remove all the peat, clay, earth and other material from 5,000 acres of peat land in the county of Welland, paying therefor the sum of $1,580 per annum for fifteen years and thereafter a rental of 25 cents per ton. Peat moss covers the whole area to a depth of about 2 ft., and the company has already cut, from an area of about 3 acres, something like 2,000 tons. This moss litter is of a very superior quality for stable bedding, and we understand a contract has been made with an American firm to purchase not less than 1,000 tons for the first year, and to increase the purchase thereafter by not less than 5,000 tons.

ORIOLE SYNDICATE, Limited.

Registered 1896. Capital, £5,000, in £1 shares. All issued.

J. B. Bryson A. W. Taylor A. H. Gower G. W. Duff Dr. Moody

Offices: 4 Sun Court, Cornhill, London, E.C.

Formed in 1896 to carry on mining operations in Canada in general, and British Columbia particularly. The syndicate has already acquired a group of claims near Barkerville (B.C.), of which the Goldfinch is the chief unit. Satisfactory progress has been made with the development of these claims.

ORION GOLD MINING CO., Limited., OF RAT PORTAGE, ONTARIO.

Authorized Capital, $999,000, in shares of a par value of $1.00.

Officers:

Geo. W. Fullerton, Rat Portage, Ont., President.
Fred. J. Bowman, Rat Portage, Ont., 1st Vice-President.
Newton Higbee, Koochiching, Minn., 2nd Vice-President.
Otto Taubert, St. Paul, Minn., Treasurer.
Henry C. Peterson, St. Paul, Minn., Secretary.

ORION GOLD MINING CO.—Continued.

Head Office: Otto Taubert, St. Paul, Minn.

Canadian Office: Newton Higbee, Mine Manager, Wabigoon, Ont.

The company owns and is developing mining locations G 157 (80 acres), H W 88 (80 acres), H P 357 (70 acres), H P 51 (40 acres), G 460 (30 acres), H W 49 (40 acres), H W 50 (56 acres), situated at Carleton Lake, Great Manitou mining district, Ontario.

ORO FINO MINES, Limited.

Incorporated in British Columbia. Authorized Capital, $100,000.

Head Office: Vancouver, B.C.

Owns and is developing the Oro Fino and Independence Mineral Claims, on McCuaig Mountain, Fairview Mining District, British Columbia. Reporting on these claims, the Mines Report for B.C., 1898, says:—

"At the discovery post on the *Oro Fino* there is a big cropping of quartz from 8 to 9 feet wide, which was cut through to the foot-wall and a shaft sunk 22 feet. A tunnel was then run along the ledge and a good clean wall was found, and the tunnel continued along it for 75 feet. The ledge is from 1½ to 7 feet in width. Seventy feet north-west is another ledge of similar quartz, showing free gold and a little galena. An open cut was run for 30 feet, and the ledge, as exposed, varied in width from 1 to 2 feet. A tunnel was then started on the ledge as it entered the mountain, where it had now increased in thickness to 3 feet, and continued to widen as the tunnel proceeded. When in 22 feet a smooth clean wall was encountered, where the ledge was fully 5 feet thick. Twenty feet below the open cut, and about 75 feet south-east from the cropping, a shaft was started and the ledge was found about 8 feet from the surface. The shaft was sunk 48 feet, and a tunnel was then started from the bottom of the shaft to strike the ledge to the north-west, and was extended a distance of 78 feet. At the upper end of the *Independence* claim a tunnel has been run for 65 feet, where the ledge varies from 2 to 6 feet in thickness. The ledge was stripped at about 70 feet from the summit and found to be 9 feet wide, of solid quartz, and a tunnel was run in on the ledge for 50 feet, when a clear smooth wall was met with, having the same dip as the *Oro Fino*, and directly in line with it. The wall was followed for 25 feet and a shaft started and sunk 9 feet. Further down the mountain some 80 feet, a second cut was made and a tunnel run in 30 feet,

ORION GOLD MINING CO.—Continued.

where quartz was found, but water coming in, work was stopped. To the west of the discovery post, a third ledge was found, on which a shaft was sunk to a depth of 54 feet. The ledge is well defined between walls, and varies from 1 to 4 feet, the vein-matter being a bluish quartz, carrying iron. The company has great confidence in its properties, and is going to at once erect a small test mill of three stamps. There are now about 5,000 tons of ore on the different dumps, which has been estimated by Mr. Pellew-Harvey to be of an average value of $10 per ton. The millsite is about one and a-half miles distant, having an easy grade from the mines, and a road has been made from the mill to connect with the Penticton waggon road.

ORO MINING AND MILLING CO., Limited.

A subsidiary company promoted by the B.C. Gold Fields Exploration, Development and Investment Company, Limited.

Mines Office : Chas. A. Wing, Superintendent, Nelson, B.C.

Owns and is developing the Golden Wedge group of claims, situated on Lemon Creek, 18 miles from Nelson, British Columbia. (See notice of parent company).

ORO PLATA MINING CO., Limited.

Incorporated in British Columbia, 30th November, 1897. Authorized Capital, $1,500,000, in shares of $1.00.

Officers :

W. H. Fife, President.
John R. Reavis, Vice-President. John W. Cover, Managing Director.
T. G. Elligie, Secretary-Treasurer.

Head Office : Rossland, B.C.

Owns and is developing the Timberline, Bob Ingersoll, Capital Prize and Come-By-Chance claims, situated on Granite Creek, White Grouse Mountain District, B.C.

OTTAWA AND IVANHOE SILVER MINES, Limited

Incorporated in British Columbia, 16th December, 1896. Authorized Capital, $1,000,000, in shares of a par value of $1.00 each.

Officers:

Sandford H. Fleming, President.
J. Fred. Ritchie, Vice-President. P. G. Nash, Secretary-Treasurer.

Trustees:

Sandford H. Fleming, C.E.
Geo. P. Brophy, C.E. J. F. Ritchie. J. K. Clark. P. G. Nash.

Canadian Office: Victoria Chambers, Ottawa.

Owns and is developing the Ottawa and Ivanhoe mineral claims, on Wellington Mountain, Slocan District, British Columbia.

OTTAWA GOLD MILLING AND MINING CO., Limited.

Incorporated 1897. Authorized Capital, $1,000,000, in shares of $1.00.

Directors:

Hon. G. E. Foster, M.P.

John Mather	Denis Murphy
A. W. Fraser	R. A. Mather
George Hay	E. Seybold
John R. Coates	F. P. Bronson

Head Office: A. W. Fraser, Secretary, Ottawa, Ont.

Works: W. J. Craig, Manager, Keewatin, Ont.

Owns and operates a well equipped modern milling and reduction plant at Keewatin, Lake of the Woods Mining District, Province of Ontario. The ore brought in by the barges of the company from the difierent points on the Lake of the Woods, on arriving at the company's dock, is lifted direct from the barges into a skip holding about a ton, and hoisted to the top of the tower, and conveyed along a cableway (Locke-Miller, the span being 450 feet) into the sampler, where it is dumped into a 60 ton ore bin. From this bin the ore drops into a crusher with a capacity of ten tons an hour, is there crushed, and is hoisted up the elevator and allowed to slide down over a screen. The rock that is too large to go through the screen goes to a set of rolls, where it is reduced to the necessary size, goes up the elevator and is again sent over the screen. After going through the screen, the ore drops into an automatic machine sampler, which can be regulated to take any required percentage—the usual being about 5 per cent. From the sampler the ore drops directly into a weighing bin, where it is weighed. In this con-

OTTAWA GOLD MILLING AND MINING CO.—Continued.

nection, it is worthy of particular note by the owner of ore, that all estimates of weight will be based on the dry weight of the ore, which will be determined from the actual percentage of moisture in the ore as ascertained from the samples. After being weighed the ore goes into one of the storage bins. The sampler contains ten 200 ton bins, and thus has an available storage capacity of two thousand tons of ore. The whole building is very massively constructed, all the material used being the product of the district. The mill stands directly by the side of the sampler and within a short distance of it. In the space separating the two buildings is the water power, with a fall of nearly 20 feet, and the whole Lake of the Woods to draw from. The stamp mill contains the first twenty of what will ultimately be a sixty stamp mill, much the largest mill that has been erected or is in contemplation anywhere in western Ontario. The building is of a much more substantial and permanent nature than any similar building as yet in the district, the foundation, being very massively constructed of stone. All the machinery for the mill has been made from special plans and designed after a careful study of the characteristics of the ores of the district, and with a view of treating them to best advantage. With this object in view, the machinery is all heavier than the standard patterns, and there are besides, other variations which will make this mill peculiarly adapted to the treatment of the local ores. All the mill machinery has been made at the Gates Iron Works, of Chicago, while the shafting and gearing, which is constructed to drive the whole sixty stamps, was procured from the Hamilton Manufacturing Company, of Peterboro, Ontario. The weight of the stamps is 950 pounds, and the drop eight inches, each stamp dropping 100 times per minute. During the winter (1899) the concentrating equipment has been improved by introduction of 3-compartment Hartz jigs between the plates and the vanners. An additional water wheel has also been added to enable the sampler building to be run independently of the mill as regards starting and stopping. Additional equipment has also been added for working tests on a small scale by different ore treatment processes.

OTTAWA GOLD MINING CO., Limited.

Incorporated in British Columbia 30th November, 1896. Authorized Capital, $250,000 in shares of a par value of $1.00.

Officers:

Geo. A. Pounder, President and General Manager.
Geo. E. Toms, Vice-President.
John A. Pounder, Secretary and Treasurer.
John A. Pounder, Superintendent.

Head Office: Rossland, B.C.

Owns the Ottawa Fraction mineral claim situated on the west slope of Deer Park Mountain, about two miles from Rossland, British Columbia.

OTTAWA HYDRAULIC MINING AND MILLING CO., Limited.

Incorporated 1895. Authorized Capital, $250,000 in shares of $5.00 each.

Directors:

Lt.-Col. Joshua Wright. W. A. Jamieson. W. C. McGillivray.

Local Board:

Wm. Scott | R. T. Shillington
W. G. Bronson | Thomas Kenny
Wm. McGillivray | T. C. Bate
Henry Watters. All of Ottawa.

Mines Office: Wm. Regan, North Bend, B.C.

Formed to acquire and work certain auriferous bench claims in the Province of British Columbia, particularly a location on the east bank of the Fraser river, between Anderson river and Four Mile Creek, and about the centre of the Boston Bar flat, in the District of Yale. From careful tests made it is estimated that the average value of the ground to be worked will be at least 25 cents per yard. In 1895 and 1896 work was mainly centered in the construction of a flume three miles in length, connecting the claims with Four Mile Creek, from which the company has secured ample water for hydraulicing. The yield in 1898 is officially reported to have been $4,358; 1899, to 10th June, $4,000.

OXFORD GOLD MINING CO.

Incorporated 1895. Authorized Capital, $125,000.

Directors:

G. J. Partington. C. E. Willis. C. H. Covert.

Head Office: G. J. Partington, Manager, Musquodoboit Harbor, N.S.

This company owns 63 gold areas situated at Lake Catcha District, near Musquodoboit Harbor, and 25 miles east of Halifax, Nova Scotia. The working plant comprises:—A steam 10-steam mill complete, with Blake breaker: ore bins; automatic feeders, etc.; one 5-drill duplex air compressor; three engines, one 12 x 24, one 10 x 16, and one 9 x 12; two 40 and two 20 h.p. boilers; hoists, pumps, and everything necessary to a well equipped mine, the machinery and buildings being of a value of over $14,000. Twenty-five men employed.

PACIFIC SYNDICATE, Limited.

Offices: 41 Bishopsgate Street Within, London, E.C.

Registered 11th November, 1896. To adopt an agreement with W. B. Lawler, and to acquire, develop and turn to account certain bonds or options on mining property on the Pacific coast of British America. The purchase consideration was £5,000, payable in fully paid shares. The authorized capital is £10,000 in 10,000 shares of £1 each; 5,000 shares have been issued credited as fully paid.

PALO ALTO GOLD MINING CO., Limited.

Registered in British Columbia 13th May, 1896. Authorized Capital, $1,000,000 in shares of $1.00.

Head Office: C. Dubois Mason, Secretary, 18 Broad St., Victoria, B.C.

Owns and is developing the Palo Alto mineral claim, one mile from Rossland, British Columbia.

PARRY SOUND COPPER MINING CO., Limited.

Incorporated March 23rd, 1899. Authorized Capital, $5,000,000, in shares of $1.00 each.

Directors:

F. Johnson, St. Paul, Minn | O. Monson, St. Paul, Minn
S. F. Pierce, " " | W. Foulke, " "
R. Forbes, Duluth, Minn.

Mines Office: Parry Sound, Ont.

Formed to carry on in all its branches the operations of a mining, milling, reduction and development company.

PATHFINDER MINING, REDUCTION & INVESTMENT CO., Limited.

Registered in British Columbia, 4th March, 1897. Authorized Capital, $1,000,000, in shares of $1.00.

CANADIAN OFFICE:
Grand Forks, B.C., A. C. Sudon, Secretary.

PAYNE CONSOLIDATED MINING CO., Limited.

Authorized Capital, $5,000,000, in $1.00 shares.

Directors:

Col. F. C, Henshaw, President.

W. L. Hoge, Vice-President.

James Ross | W. G. Ross
Hon. L. J. Forget | A. W. McCune
William Hanson | F. E. Sargeant

Clarence J. McCuaig

Head Office: C. H. Low, Secretary, Montreal Street Railway Chambers, Montreal, Que.

Mines Office: Three Forks, B.C.

The mining property of the company consists of the Payne, Maid of Erin, Mountain Chief, Two Jacks, Telephone and Thursday Fraction, which cover an area of seventy-nine acres, situated on Payne Mountain, four miles from Sandon, Slocan Mining division of West Kootenay, British Columbia.

The following statement of the shipments and ore reserves was officially reported to the shareholders on 5th May, 1899:—

ORE SHIPMENTS.

December, 1896, to May 1st, 1899	3,036,107 oz. of silver. 29,825,209 lbs. lead.
Net Smelter proceeds	$1,630,170 33
Ore shipments for May, about 1,170 tons.	
Net Smelter proceeds, about	$55,949 00

ORE RESERVES.

Blocks One to Four inclusive, and Old Stopes	12,835 tons.
Blocks A, B, C, " "	13,667 tons.
	26,502 tons.
26,502 tons—Net Smelter value	$1,267,325 64
Net value over and above all expenses	906,297 64

DIVIDENDS PAID.

In a report to the shareholders of the former owners of the property, the Payne Mining Company of B.C., Limited, dated 1st July, 1898, the following statement of the dividend earnings of the property is given:—

PAYNE CONSOLIDATED MINING CO.—Continued.

Dividends paid to April 30th, 1898		$550,000
Dividends since April 30th, 1898 :—		
April, 1898	$ 50,000	
May, 1898	25,000	
June, 1898	25,000	
July, 1898	25,000	
August, 1898	25,000	
September, 1898	50,000	
October, 1898	50,000	
November, 1898	100,000	
December, 1898	50,000	
January, 1899	25,000	
February, 1899	25,000	
March, 1899	25,000	
		475,000
Total dividends paid		$1,025,000

N B.—Up to April 30, 1898, the company paid $230,786 duty on lead contents of ore, all of which was shipped to the smelters in the United States. The freight and smelter charges for the same period amounted to $362,986. The company also paid out of earnings $56,743.43 for permanent improvements.

Between April 30th and December 31st, the company paid $128,786 for duty, and $191,562 for freight and smelter charges.

METHOD OF WORKING.

The mine is worked by means of five tunnels, the three upper being driven on the ledge, well timbered, and so connected as to give ample ventilation. The size of the ledge is such that it is necessary in stoping, to remove a good portion of the wall matter, which is immediately filled in to replace the vacancy caused by the removal of the ore. The cost of mining is very low, and for transporting ore to both K. & S. and the C.P. Rys., probably the longest 3-rail gravity tramway in the world has been installed. This tramway is 6,000 feet long, with a vertical drop of 2,500 feet; steel cable ⅝ in.; load per car, 5 tons.

PAY ORE (B.C.) MINES, Limited.

Incorporated under the Statutes of British Columbia, 18th January, 1898.
Authorized Capital, $250,000, in shares of a par value of 10 cents.

Head Office: Smith Curtis, Secretary, Rossland, B.C.

Owns the Pay Ore mineral claim, situated ½ mile east of the North Fork of Kettle River, at a point about 12 miles north of Grand Forks, British Columbia.

PEACE RIVER GOLD DREDGING CO., Limited.

Incorporated by an Act of the Legislative Assembly of the North-West Territories, 29th April, 1899. Authorized Capital, $3,000,000, in shares of $1.00, with power to increase the amount to $10,000,000.

Directors:

Dr. W. H. Roughsedge, Edmonton, N.W.T.
J. A MacLaren, Ottawa. J. Tait MacLaren, S. Edmonton, N.W.T.
W. Hume Blake, Toronto.

Head Office: Dr. W. H. Roughsedge, Edmonton, N.W.T.

Formed to acquire and work from the original lessees the following leases of the bed of the Peace River and its tributaries, and to dredge the same for gold and other precious metals that are known to occur in this river in paying quantities:—

42	Leases on	Peace River.
10	"	Big Smokey River.
2	"	Little Smokey River.
4	"	Battle River.
3	"	Muddy Creek.
3	"	Mountain Creek.
3	"	Rat Creek.
3	"	Boundary Creek.
1	"	Clear Creek.
1	"	Boucher Creek.

Being a total of seventy-two leases of five miles each (excepting No. 17 Peace River) which is only four miles long. The leases are for twenty years, and are then renewable at a rental of $30 per annum. After the property is thoroughly tested in whole or in part, it is intended to promote subsidiary companies.

PELEE GAS AND OIL CO. OF ONTARIO.

Incorporated 1895. Authorized Capital, $30,000.

Officers:

Geo. Jasperson, President.

Henry A. Mosher, Vice-President. | S. L. McKay Secretary-Treasurer.
Bon. Jasperson, Managing Director. | E. S. Wigle.

Head Office: Bon. Jasperson, Managing Director; S. L. McKay, Sec-Treas., Kingsville, Ont.

Formed to acquire and work gas and oil wells in the Township of Pelee and at the Village of Kingsville, in the County of Essex, Province of Ontario.

PELLY-YUKON GOLD MINING CO., Limited.

Incorporated 1st February, 1898. Authorized Capital, $350,000, in shares of $1.00.

Officers:

Samuel Forteith, President.
Thomas Parker, Secretary. J. S. Clute, Jr., Treasurer.
F. W. Bauer, Manager.

Owns the Pearl and Proud Chief claims, on Sullivan Creek, Trail Creek Mining District, British Columbia.

PENINSULAR GOLD MINING AND DEVELOPMENT CO., Limited.

Incorporated 1897, under Laws of Ontario. Authorized Capital $900,000, in shares of $1.00.

Officers:

J. A. Auld, M.P.P., Amherstburg, Ont., President.
Dr. W. A. Piper, Leamington, 1st Vice-President.
Chas. D. Cox, Kingsville, 2nd Vice-President.
J. E. Johnston, Leamington, 3rd Vice-President.
Richard Traux, Toronto, Manager.
Hugh McSween, Leamington, Secretary-Treasurer.
E. Wallace, Toronto, Engineer.

Head Office: Leamington, Ont.

PEORIA MINING AND MILLING CO., Limited.

Incorporated 7th December, 1896. Authorized Capital, $1,000,000, in shares of $1.00.

Officers:

Dr. D. E. Kerr, President.
Archibald Cameron, Vice-President. Joseph Fyfe, Secretary-Treasurer.

Head Office: Rossland, B.C.

Owns and is developing the Peoria, Seattle, Snowflake, and Harriet mineral claims, 6 miles from Whitewater, British Columbia.

PERTH SYNDICATE, Limited.

Head Office: R. G. Rivers, Secretary, 48 Gresham Street, London, E.C.

CANADIAN OFFICE:
W. J. R. Young, Wild Horse Creek, East Kootenay, B.C.

Registered in England, 1st April, 1896, to acquire and deal with mining properties. The Syndicate has sold two claims in British Columbia to the Kootenay District Gold Exploration Syndicate, Limited. The Authorized Capital is £10,000, in 10,000 shares of £1 each; 3,000 shares have been issued and are fully paid. Owns and is developing the Elkhorn and Pearl mineral claims, on Perry Creek, East Kootenay, B.C.

PETROLEUM OIL TRUST, Limited.

Registered 20th August 1891. Authorized Capital, £430,000, £330,000 in ordinary shares of £1, and £100,000 in preference shares of £10, ranking first for dividends of 7 per cent. per annum, with the option to holders of converting into ordinary shares at any time within three years on six months notice. £368,310 has been allotted and paid up, £315,000 having been issued to the vendors. The shares were formerly of £10, but in 1897 each share was divided into ten. The preference dividend, guaranteed for three years by the Charing Cross Bank has been regularly paid in June and December. Balance sheet not obtainable, but it is officially reported that there was a profit for 1895-6 of £13,906.

Directors:

J. H. Atkins A. W. Carpenter J. Foley P. A. Hutchison

Head Office: E. S. Peach Secretary, 22 Henrietta Street, London, W.C.

CANADIAN OFFICE:
J. Foley, New York Life Building, Montreal.

Works and Wells: C. B. K. Carpenter, Supt., Gaspe, Que.

Formed to acquire properties in the Gaspé district and elsewhere in the Province of Quebec, covering an area of 40,137 acres freehold, with mining rights over 10,220 acres in addition. At 10th January, 1896, the company had 26 derricks, some of the wells being put down to a considerable depth. A number of the wells are reported to be pumping oil of a very superior quality. Ten new derricks have recently been constructed and are now

PETROLEUM OIL TRUST—Continued.

drilling. The oil is found at depths varying from 1,300 to 3,000 feet, and is of a light green color, perfectly odorless.

In 1896, 5,041 acres of land was sold to the Société Belge des Pétroles du Canada for 7,750,000 francs in fully paid shares of 500 francs each of that company.

DIRECTORS REPORT, 1897.

The following is excerpted from the Directors Report, issued April, 1897:—

The Directors have further to report that 21 drilling derricks have been erected in the neighborhood of the prospecting wells; 14 wells are sunk to the petroleum deposits in the overlying porous sandstone. Eight are pumping wells, with a daily average output of about 8,000 gallons. Six others contain oil which will flow without pumping when connected by short pipe lines to the main pipe line to receiving tanks. It is estimated that the daily output from these six wells will average 7,000 gallons. Seven other wells are in the course of being sunk, and are at the depths of from 900 to 3,090 feet. As these wells reach the oil deposits the output will be largely increased. Three more new derricks recently erected in the amber oil district are being fitted with the drilling plant necessary for reaching the oil.

The Directors, in view of the increased output from additional wells, consider it most important, and in the interests of the shareholders, to construct, at the company's wharf property, a refinery capable of treating up to 40,000 gallons of crude oil daily; and this the Directors have now under consideration.

PETROLIA CRUDE OIL AND TANKING CO.

Incorporated 1874. Capital stock, $50,000, divided into 1,000 shares of $50 each, fully paid up.

Directors:

Chas. Jenkins, President.

J. D. Noble	J. H. Fairbank
R. D. Noble	R. L. Bradley
C. O. Fairbank	John Fraser

Head Office: Chas. Jenkins, President, Petrolia, Ont.

The company owns and operates 70 wells, situate on lot 12-12 and 13-12 Con. Enniskillen, Lots 13-11, 12-11 and 14-11, Petrolia, and lot 16-2nd, Oil Springs; average depth, 465 ft.; average daily capacity about half a barrel. Near the close of 1896 the company bought the entire property of the Producers Tanking Co. The company has now storing capacity at Oakdale, Dam Township, of 350,000 barrels; receiving stations in Marthaville, Oil Springs, and three in Petrolia. Owns 44½ miles of pipe line.

PETROLIA CRUDE OIL AND TANKING CO.—Continued.

The following statistics have been kindly furnished by the secretary :—

	Bbls. Received.	Bbls. Shipped
1884	255,768	184,214
1885	299,407	312,554
1886	255,022	240,134
1887	244,979	360,309
1888	285,013	240,950
1889	298,806	341,346
1890	288,330	333,052
1891	294,222	311,215
1892	309,898	296,796
1893	273,966	274,352
1894	238,055	257,609
1895	240,939	247,702
1896	228,363	220,666
1897	304,401	279,094
1898	300,615	333,795

Estimated value of machinery and plant $100,000. 18 men employed.

PHŒNIX CONSOLIDATED MINING CO., Limited.

Incorporated 15th August, 1896. Authorized Capital, $750,000 in shares of $1.00.

Officers :

James E. Poupore, President.
C. D. Rand, Vice-President. Dr. M. W. Bruner, Sec.-Treas.

Head Office : Sandon, B.C.

Owns the Phœnix, Alhambra, and Libby R. mineral claims, situated on the North Fork of Carpenter Creek, 3½ miles from the town of Three Forks, British Columbia.

PHŒNIX GOLD MINING CO., Limited.

Re-registered in British Columbia 14th December, 1897. Authorized Capital, $500,000 in shares of a par value of $1.00.

Officers :

J. W. Witherop, President.
Smith Ely, Vice-President. D. Herman, Secretary.
J. K. Riorden, Treasurer.

Head Office : Spokane, Wash.

Canadian Office : Rossland, B.C.

Owns the Phœnix mineral claim, situated about 1½ miles from Rossland, B.C.

PICK UP MINING AND SMELTING CO., Limited.

Incorporated in British Columbia 22nd October, 1896. Authorized Capital, $1,000,000 in shares of a par value of $1.00.

Officers:

T. C. Gray, President. J. Coleman, Vice-President.
F. J. Walker, Secretary.

Head Office: Rossland, B.C.

Owns the Pick Up mineral claim on the north slope of Red Mountain, near Rossland. B.C.

PINE RIDGE GOLD MINING CO., Limited

Incorporated 23rd February, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

J. B. McArthur, President.
W. L. Parrish, Vice-President. T. H. Rae, Treasurer.
W. L. Orde, Secretary.

Head Office: Rossland, B.C.

Owns the Nako, Elpro, Kalamish, and M. P. Fraction claims on Cayuse Creek, Lower Arrow Lake, British Columbia.

PIONEER DEVELOPMENT AND EXPLORATION CO. OF BRITISH COLUMBIA, Limited.

Head Office: W. Cooper, Secretary, 9 & 10 King St., London, E.C.

Registered in England, 17th June, 1896, to acquire mining claims, etc., in British Columbia. Six properties have been acquired, including the Campbell and the N.P. The company was promoted by the Kootenay Promotion Syndicate, Limited, who undertook to pay all the preliminary expenses up to allotment in consideration of the sum of £5,000, payable in cash and fully paid shares, and the right to take at par on or before the 30th June, 1898, a further 50,000 shares in the company. The authorized capital is £150,000, in 150,000 shares of £1 each; 15,400 shares have been issued and are fully paid.

PITTSBURG AND CARIBOO GOLD DREDGING CO., Limited.

Registered in British Columbia 10th April, 1896. Authorized Capital, $500,000, in shares of a par value of $5.00.

Officers:

Benjamin W. Morgan, President.
Dr. J. A. Craighead, Secretary-Treas. John B. Heinrich, Manager.

Head Office: Pittsburg, Pa.

Canadian Office: Inns of Court Bdg., Vancouver, B.C.

The company owns and is developing certain dredging leases and concessions near Cottonwood Canyon, on the Fraser River, about twenty miles above Quesnelle, Cariboo District, British Columbia. Of the operations of the Company in 1898 the Mines Report for that year says:—"The company met with a serious misfortune this season in having their huge dredge cast high and dry on a bar in the river. Owing to the rapid fall of the water, they were unable to float the dredge without removing the machinery. This unfortunate accident entailed the loss of the season's work, and was the more disheartening as the company had just completed the installation of a dipper type in place of the suction form hitherto used."

PLEASANT VALLEY PLACER MINES, Limited.

Incorporated in British Columbia, 15th May, 1899. Authorized Capital, $100,000, in shares of $1.00.

Head Office: Rossland, B.C.

Formed to purchase twenty-six placer claims situate at Barkerville at the junction of Williams Creek and Pleasant Valley Creek in Cariboo.

PONTIAC MINING CO. OF OTTAWA, Limited.

Incorporated 1898. Authorized Capital, $490,000, in shares of $1.00 each.

Directors:

T. C. Bate, President, Ottawa, Ont. | F. Clark, Secretary, Ottawa, Ont.
Dennis Ryan, St. Paul, Minn. | W. J. Poupore, M.P., " "
Hon. T. A. Darby, Wilmington, North Carolina.

PONTIAC MINING CO.—Continued.

Head Office: Ontario Chambers, Ottawa.

Formed to carry on in all its branches the operations of a mining, milling, reduction and development company. Owns and is developing a gold mining location comprising 284 acres in Onslow Township, County of Pontiac, Ontario.

PREMIER GOLD MINING CO., Limited.

Incorporated in British Columbia, 8th February, 1897. Authorized Capital, $150,000, in shares of a par value of 10 cents.

Officers:

W. A. Blair, President.
Samuel Forteith, Vice-President. Thomas Parker, Secretary.
F. W. Bauer, Manager.

Head Office: Rossland, B.C.

Owns the Skilligallee and Golden King mineral claims on Sullivan Creek, Trail Mining District, British Columbia.

PRIMROSE GOLD MINING CO, Limited.

Incorporated in British Columbia, 9th January, 1897. Authorized Capital, $1,000,000, in shares of $1.00.

Head Office: Graham Kennedy, Sec.-Treas., Rossland, B.C.

The company owns, among other claims, the Eudora and Grace C claims, situate in the Trout Lake Mining Division of British Columbia.

PRINCESS GOLD MINING CO. OF ONTARIO, Limited.

Incorporated 1896. Authorized Capital, $500,000.

Directors:

Ewen MacKenzie, President.
John Flett Hy. O'Brien Hy. Lowndes A. R. Moore Thos. Shortiss

Head Office: Thos. Shortiss, Secretary, 18 Toronto Street, Toronto.

Owns and operates Location 118 D on Black Sturgeon Lake, 2½ miles north of Rossland station, on the C.P.R. and 7½ miles from the town of Rat Portage. Being opened.

PRINCE EDWARD PEAT FUEL CO., Limited.

Incorporated March 18, 1899. Authorized Capital, $20,000, in shares of $100.00 each.

Directors:

R. Hadden,	Picton, Ont.	W. Smeaton,	Picton, Ont.
J. C. North,	" "	R. H. McKenna,	" "
J. H. Allan,	" "	C. H. Widdifield,	" "
W. E. Vanlack,	" "	J. E. Clapp, Hallowell, Prince Edward Co., Ont.	

Head Office: Wm. Smeaton, Secretary, Picton, Ont.

Formed to manufacture, buy, sell and deal in fuels. Owns about 30 acres of peat lands in Hallowell Township, 3 miles from Picton, Ontario.

PROSPECTING SYNDICATE OF BRITISH COLUMBIA.

Incorporated 1895. Authorized Capital, £100,000, in shares of £1.

Directors:

Edward Mahon J. W. McFarland Gilbert Mahon

Canadian Office: G. G. Scott, Secretary, 519 Hastings St., Vancouver, B.C.
Gilbert Mahon, Managing Director, Rossland, B.C.

Formed for the purpose of acquiring gold and other mineral properties in that province. The functions of this company will be not only the acquiring of suitable properties, but the working up of connections with the London market for their disposition. The company holds options at date on the Crown Point group (150 acres), gold and silver; Oro Fino group (250 acres), gold, copper; Orphan group (50 acres), gold, copper; Jewel-Denero (100 acres), gold (telluerides) and silver; one-third interest in the Climax (50 acres), gold, copper; one-half interest in the Lulu (50 acres), gold, and 110,000 shares in the Silver King Mining Co. The above options are situated in the Boundary Creek District of British Columbia.

PROVIDENCE MINING AND DEVELOPMENT CO., Limited.

Incorporated under the laws of British Columbia 11th March, 1897. Authorized Capital, $300,000 in shares of a par value of 25 cents.

Head Office: Vancouver, B.C.

PROVIDENCE MINING AND DEVELOPMENT CO.—Continued.

This company has acquired the Providence mine, situated on Harrison Lake, New Westminster Mining Division of British Columbia. The purchase consideration is reported to have been 1,200,000 shares in stock of the company, or $300,000.

There are three veins on the claim, and considerable work has been done in developing it. In 1898 a tunnel was driven in No. 1 vein 31 feet, followed with a 92-foot shaft and a cross-cut of 37 feet. In No. 2 vein an adit of 45 feet has been made. The amount expended on development in 1898 is about $8,000, exclusive of an expenditure of $5,500 in new plant which is now on the ground. This includes a 4-drill Rand compressor. Three shipments of ore have been sent to the smelters at Tacoma and Everett, which gave returns of from $20 to $34 in gold and silver to the ton. There are about 165 tons of ore on the dump.

In a report on this mine, dated 14th October last, Mr. Fritz Cirkel, M.E., says of No. 1 vein: "It has all the characteristics of a fissure vein. It crosses the formation and presents two well-defined walls." Mr. Cirkel concludes as follows: "In conclusion I may say that, looking at the property just examined as a whole, the results so far obtained are of a very satisfactory nature, and should encourage further extensive development work."

PROVINCE OF BRITISH COLUMBIA MINERALS SYNDICATE, Limited.

Head Office: Broad St. House, London, E.C.

Registered in England 17th March, 1897, to acquire mines and lands in British Columbia or elsewhere. Authorized capital, £6,000 in shares of £1; 2,800 shares have been issued and are fully paid.

PROVINCIAL NATURAL GAS AND FUEL CO. OF ONTARIO, Limited.

Incorporated 1890, under letters patent from the Federal Government of Canada. Authorized Capital, $240,000, in shares of $40.

Directors:

Hon. Peter McLaren, Perth, Ont., President.

N. A. Coste, Amherstburg, Ont.	D. McGillivray, Port Colborne, Ont
Daniel O'Day, New York	Samuel Rogers, Toronto, Ont
C. N. Payne, Oil City, Pa	E. Strong, Oil City, Pa

Head Office: D. A. Coste, Supt.—Thos. Nicoll, Jr., Assist. Sec.-Treas., 56 Coal and Iron Exchange Bdg., Buffalo, N.Y.

PROVINCIAL NATURAL GAS AND FUEL CO.—Continued.

The company now holds under lease a property containing about 15,000 acres in the County of Welland. Total wells drilled 137, of which 71 are connected to the two 8-inch pipe lines to Buffalo, N.Y., Fort Erie and Bridgeburg, Ont. The company at 1st January, 1898, owned 125 miles of pipe lines of a size varying 8 to 1 inch. In Buffalo the gas is sold to the Buffalo Natural Gas Fuel Co., who in turn sell it to private consumers in the city at the rate of 27½ cents a thousand. The Buffalo Company has been selling natural gas in Buffalo since 1886, when they completed a line 90 miles long from several fields located in Pennsylvania. Both the Canadian and Pennsylvania lines are now furnishing gas simply with the natural rock pressure of the gas.

PUGET SOUND IRON CO., Limited.

Registered 18th March, 1898. Authorized Capital, $500,000 in $10 shares.

Head Office: 530 California St., San Francisco.

The company owns and is developing the Jack North claim, situated in the Nanaimo Mining Division, Province of British Columbia. During 1898 a shaft was sunk 200 feet and about 100 feet of tunnels from the shaft driven. The company has opened up a fine body of copper ore, and is preparing to to put up smelters on the ground. It has contracted to ship 5,000 tons of iron ore to the Everett smelters, to be used as a flux in smelting other ores.

PYRAMID COPPER SYNDICATE, Limited.

Head Office: Walter Smith Secretary, 6 Great Winchester Street, London, E.C.

Canadian Office: Nelson, B.C.

Registered 4th March, 1898, to acquire 16 mining claims in Pyramid Camp, East Kootenay, British Columbia. The purchase consideration was £11,500, payable £500 in cash, and £11,000 in fully paid shares. The authorized capital is £20,000 in 20,000 shares of £1.

The claims acquired are the Altnaveigh, Kirbekan, Shannon, Gladys, Whitewater, Londonderry, Carlingford, Rowan, Lubbock, Susan, Ruddygore, Valhalla, Ravensdale, Irishman, and Lucky Shot mining claims in Pyramid Camp, East Kootenay, situate in the eastern portion of the Selkirk Mountains, at the head of Pyramid (late Copper) Creek, one of the tributaries of the St. Mary's River, East Kootenay, distant about forty-five miles from Crawford Bay and thirty-five miles from Fort Steele, and about two miles north of Fort Steele Government trail, British Columbia.

PYRAMID KOOTENAY MINING CO., Limited.

Registered 14th April, 1897. Authorized Capital, £50,000, in 50,000 shares of £1 each; 3,382 shares have been issued and are fully paid.

Directors:

J. Harris Saunders J. Ross R. W. Western

Head Office: 36 Lime Street, London, E.C.

CANADIAN OFFICE:
Nelson, B.C.

Formed to carry into effect an agreement between the British Kootenay Exploration Sydnicate, Limited, of the first part, James H. Saunders of the second part, and this company of the third part, and to acquire and deal with fourteen mineral claims, in the Fort Steele Division, East Kootenay, British Columbia. The purchase consideration was £27,500 payable in fully paid shares.

PYRITES COMPANY, Limited.

Registered in England 30th April, 1891. The Authorized Capital is £300,000 in 60,000 shares of £5 each, of which 30,000 are 10 per cent. cumulative preference shares; 24,007 preference, and all the ordinary shares have been issued credited as fully paid (except seven preference shares subscribed.) There are 6 per cent. first mortgage debentures to the amount of £55,700, and also 5 per cent. second mortgage debentures to the amount of £25,000, the latter being issued as security for a loan of £20,000. At 31st December, 1895, the cumulative preference dividend was in arrears to the amount of £56,827 0s. 10d. The accounts are made up annually to the 31st December. The accounts to 31st December, 1895, submitted on 29th September, 1896, showed a profit of £49,000 3s. on the year; deducting this from the debit balance of £841 6s. outstanding at December, 1894, left a balance of £792 3s. to debit of profit and loss account. Cash balances £2,766 12s. 9d.

Directors:

Earnest H. Forwood, Chairman.
Frederick Levick James Parker O. Frank Waterfield.

Head Office: T. H. Carlton Levick, Secretary, 13 and 14 Abchurch Lane, London, E.C.

Mines Office: Pilley's Island, Newfoundland.

PYRITES CO.—Continued.

Formed to acquire and work the Standard Pyrites Company's mines on Pilley's Island, Newfoundland. The mine is situate at Pilley's Island in Notre Dame Bay, and it has been making regular shipments to the United States for the last eight years. During 1898 shipments were 32,479 tons (of 2,240 pounds) ; this quantity was made up of 25,958 tons lump ore and 6,521 tons fine ore.

The average sulphur contents of the lump ore shipped was 51.86 per cent. ; of the fine ore 50.70 per cent. On further analyzing the results we find that of the lump ore over 11,600 tons averaged over 52 per cent. sulphur ; over 10,200 tons between 51½ and 52 per cent.; about 1,000 tons between 51 and 51½ per cent., and 2,600 tons just under 51 per cent. sulphur.

The highest sulphur content of any one shipment was a cargo of 1,000 tons lump ore which yielded no less than 52.34 per cent. sulphur; the lowest in lump ore was 50.96 per cent. Of the fines ore one small cargo ran 51.38 per cent.; about 4,500 tons averaged between 50 and 51 per cent., and the balance was just below 50 per cent. The highest sulphur contents of fines was 51.38 per cent., and the lowest in fines 49.86 per cent.

These results are extraordinary, considering that the highest possible sulphur contents of iron pyrites is 53.3 per cent. In addition to this high percentage of sulphur there is absolutely no trace in this ore of arsenic or other deleterious matter. The ore is also remarkably free burning. All the contracts specify that the sulphur contents are to be burnt out to below 1 per cent., so that the residuum of iron is of considerable market value. The company has been shipping this class of ore for several years.

PYTHON MINING CO., Limited.

Incorporated under the Laws of British Columbia. Authorized Capital, $2,000,000 in shares of a par value of $1.00.

Head Office : Kamloops, B.C.

QUADRA MINING AND MILLING CO., Limited.

Incorporated in British Columbia, 15th April, 1896. Authorized Capital, $500,000, in shares of a par value of $1.00.

Directors :

John Bryden, President.

Thos. Shotbolt, J.P. G. A. Kirk. H. Saunders. W. H. Ellis.

Head Office : G. A. Sargison, Secretary, 48 Langley St., Victoria, B.C.

Owns the Ophir, Last Chance and Quadra mineral claims, situated in the Alberni District, British Columbia.

QUARTZ CREEK GOLD MINING CO. OF ONTARIO, Limited.

Incorporated 26th April, 1899. Authorized Capital, $950,000, in shares of $1.00.

Directors:

W. Kennedy, Toronto.

M. Moyer, Toronto. | D. Hibner, Berlin, Ont.
C. K. Hagadorn, Berlin, Ont. | J. M. Staebler, Berlin, Ont.

Head Office: Toronto, Ont.

Formed to carry on in all its branches the operations of a mining, milling, reduction and development company.

QUEBEC MINING SYNDICATE, Limited.

Authorized Capital, $300,000, in shares of a par value of 20 cents.

Directors:

W. A. Marsh. | A. Guilbault.
Hon. A. Tourget, M.P.P. | Hon. L. P. Pelletier, M.P.P.
John Ritchie.

Head Office: Frank Carrel, Secretary, Quebec.

Owns and is developing 45 mining locations, situated in the Lake of the Woods District, Ontario.

QUEEN BEE GOLD MINING CO. OF OTTAWA, Limited.

Incorporated February 15th, 1897. Authorized Capital, $1,000,000, in shares of $1.00 each.

Directors:

Levi Crannell, Ottawa. | W. G. Bronson, Ottawa.
W. A. Clark, " | A. W. Fraser, "
J. Burley Smith, Winnipeg, Man.

Head Office: A. W. Fraser, Secretary, Ottawa, Ont.

Formed to carry on in all its branches the business of a mining, milling, reduction and development company.

QUEEN BESS PROPRIETARY CO., Limited.

Incorporated 1897. Authorized Capital, £120,000, in shares of £1.

Directors :

Capt. R. B. Needham, R N.
Capt. E. Ironside Bax. | Edward Hart.
John V. Miller. | Chas. E. Shepheard.
Sir Francis Blackwood, Bart.

Head Office : Walter Smith, Secretary, Moorgate Station Chambers, London, E.C.

Canadian Office : Capt. T. J. Duncan, General Manager, Nelson, B.C.

Mines Office : G. Noel Brown, F.G.S., A.R.S.M., Mine Manager, Three Forks, B.C.

Formed to acquire and work six mineral claims, known as the Queen Bess group, comprising about 220 acres, Slocan District, Province of British Columbia. These properties consist of the Queen Bess, Young Dominion, First Extension, American Girl, Concord and First Extension Fraction, and are situated on Howson Creek, 3½ miles from New Denver, and 1½ miles from Three Forks. The vendor companies (The Dominion Mining, Development and Agency Company, Limited, and the Duncan Mines, Limited,) have fixed the purchase price at £85,000 stg., stipulating that £33,333 shall be paid by the issue to them of fully paid shares, and the balance, £51,667, in cash or shares, at the option of the directors. £15,000 is reserved for working capital. During 1898 65 persons were employed, and 1,700 tons of ore were shipped. 5,000 feet of tunnelling, raises, etc. At the second ordinary meeting of the shareholders, held in July, 1899, the chairman reviewed the position and affairs of the company, as follows :—

"The property at the time it was taken over by the company consisted of certain claims of about 200 acres, and they had since acquired another 68 acres, as the directors believed the lodes ran through that ground. It would be seen from the revenue account that the production showed a very satisfactory gross value. Of course, on the other side, there was a very heavy outlay for mining treatment, but already large reductions had been made in that item, and the directors hoped to still further reduce it. The ore sales had amounted to £47,474, and the gross profit was £15,226, which was carried to the credit of profit and loss. On the other side, certain amounts had been written off for depreciation by the local auditors, who stated in their report that they considered the depreciation had been fairly provided for. The net profit amounted to £9,547, which the directors proposed to deal with in the

QUEEN BESS PROPRIETARY CO.—Continued.

manner stated in the report. On turning to the balance sheet, it would be seen that the purchase price of the property amounted to £85,235. The company started with a working capital of £15,000, and considerable sums had been expended on capital account, part of it on work of a permanent character, and some of it on mining development. At the date of the balance sheet they had on hand £10,758; they had since received the net value of the ore in transit to the smelters, £3,147, making £13,900 of available cash for the payment of the dividend and also for further development. They had a reserve of 20,000 unissued shares to provide further working capital if required. Therefore, the financial position of the company was particularly strong. Turning to the report, the directors had already paid an interim dividend of 6d. per share, and they now recommended the payment of another 6d. per share. They also proposed to write off one-third of the total amount spent on development work at the mine—namely £2,727. Then there were payments to the directors under the Articles, and to the late managing director under the terms of his agreement, amounting to £300 in all, leaving a balance of £1,519, which they proposed to carry forward. This result has been chiefly attained towards the end of the financial year, because, during the early period of their tenure, they were almost entirely engaged on development work. The first shipment of ore amounted to 891 tons, and the last shipment amounted to 1,217. It would, therefore, be seen that until quite recently they were not shipping to anything like their full capacity, owing to a large number of the men being engaged on development work. This was a wise policy to pursue, because, although they had ore in sight which they could have taken out, they were bound to provide for the future of the mine, and they were satisfied that that had been done. The galena had realized £18 3s. 10d. per ton gross, and the carbonates £8 11s. 3d., giving an average of £14 7s. 5d. per ton. The cost of mining, sorting and hauling amounted to £3 6s. 8d. per ton, which was very high, while the cost of freight, treatment and duty amounted to £6 9s. 9d. per ton. Taking the figures for April the total cost, instead of being £9 16s. 5d., was £8 9s. 3d. per ton, so that they had already taken steps to considerably reduce the costs. The haulage at present was a heavy charge, because all the ore had to be carted some 3½ miles by road to the station, but the directors hoped that before next summer there would be a railway within half a mile of the mine, so that then they would be able to ship continuously by erecting a wire-rope tramway of some description to carry the ore from the mine mouth to the railway. With regard to the mining development, the accounts were so kept that all the outgoings were charged against the present product of the mine. This was done originally with the idea of giving the directors a return of the total outgoings each month, and the total amount received on the other side, and it appeared that the amounts for mining development were still left to the debit

QUEEN BESS PROPRIETARY CO—Continued.

of the working account at the mine. It was manifestly unfair that one period—especially the first period of the mine's history—should be debited with the whole cost of the development. It, therefore, became a question what they should do with that item. The development work had opened up certain well-defined bodies of ore in various tunnels and uprises, and the cost of that work was properly chargeable against the total amount of ore so developed when it was got out. They knew they had reserves of ore in the mine far larger than the two-thirds which they had carried forward in comparison with what they had taken out, and they, therefore, proposed to write off one-third of that item only, and they thought they had met the case very liberally by so doing.

QUEEN VICTORIA GOLD MINING CO., Limited.

Incorporated 13th November, 1896. Authorized Capital, $1,000,000 in shares of a par value of $1.00.

Officers:

George H. Suckling, President.
E. W. Lilligram, Vice President. F. W. Bauer, Treasurer.
Thomas Parker, Secretary.

Head Office: Rossland, B.C.

Owns the Beaver and Denmark mineral claims located on Sullivan Creek, Trail District of British Columbia.

QUESNELLE RIVER GOLD DREDGING CO., Limited.

Registered 1897. Authorized Capital, £55,000, in shares of £1.

Directors:

Henry Duncan. Geo. F. Farrer. Major General P. D. Henderson.
Frank Spencer.

CANADIAN OFFICE:
Hugh McLean, Resident Manager, Vancouver, B.C.

Head Office:
Francis W. Croft, Secretary, 4 Draper's Gardens, London, E.C.

QUESNELLE RIVER GOLD DREDGING CO.—Continued.

Formed to acquire the rights and powers granted under a lease from the government of British Columbia for a period of 20 years from 30th June, 1896, at a rental of £150 per annum, granting the exclusive right of dredging for gold on three miles of the Quesenelle river, Cariboo District, Province of British Columbia, as follows:—Commencing at a post marked Joseph Richenback on the south bank of the said river about 10 chains below the mouth of the Beaver river, adjacent to the Main Quesnelle Gold Dredging and Mining Company's claim, thence up the river a distance of three miles to Drummond's claim, the said claim of three miles covering the bed and bars of the said river from low water mark to low water mark according to plan.

The purchase consideration was £40,000 payable in fully paid shares of the company, or partly in cash and partly in shares, at the option of the directors.

RAINY LAKE MINING AND POWER CO., Limited.

Organized under the laws of the State of Wisconsin. Authorized Capital, $1,000,000 divided into 200,000 shares of a par value of $5.00.

Directors:

O. A. Watzke, President and General Manager.
A. H. Pennish, Vice-President and Treas. J. N. Snyder, Secretary.
E. F. Russell, Mining Engineer.

Head Office: West Superior, Wis.

Mine Office: E. F. Russell, M.E., Rainy Lake City, Minn.

The purpose of the company is to conduct and carry on all kinds of mining and milling operations, and to develop and utilize water, electric and steam power for that purpose.

The property of the company, commonly known as the "Sairey Gamp," is surveyed and described in the crown grant as "Mining Location G. 149." It is situated in the best portion of the Manitou section, Ontario, and contains an area of 145 acres. It is crossed midway by the river connecting Sairey Gamp Lake and Harris Lake, and has an abundant growth of timber for fuel and mining purposes. Three gold bearing quartz veins have been located on the property; the main vein is about 15 feet wide and is easily traceable by frequent out-croppings across the entire location.

RAINY RIVER AND ONTARIO EXPLORATION CO., Limited.

Registered in England, 19th November, 1897. Authorized Capital, £150,000, in 145,000 ordinary shares of £1 each, and 5,000 deferred shares of £1 each; all the deferred shares were issued credited as fully paid.

Directors:

J. Barker, J.P., Chairman.
Col. A. Burton Brown — Walton Lee — John W. Taylor — J. M. Cotton.

Canadian Board:

G. T. Marks — J. J. O'Connor — Judge Fitzgerald.

Head Office: C. A. Coffin, Secretary, 34 Victoria St., London, S.W.

Canadian Office: Port Arthur, Ont.

Formed to acquire and deal with town sites and lands, to obtain options on mines, etc., in Ontario. By a contract dated 19th November, 1897, Charles Frederick Flack was to have allotted to him the deferred shares credited as fully paid up in consideration for which he agreed to pay formation expenses of the company up to first allotment.

RAINY RIVER GOLD MINING CO., Limited.

Incorporated 1896, under the Laws of Ontario. Authorized Capital, $1,000,000 in shares of a par value of $1.00.

Directors:

Chas. E. Neads, Rat Portage, Ont | Llewellyn A. Morrison, Toronto, Ont
William J. Morrison, New York, U.S. | James E. Harrison, Bridgewater, Ont
John G. Murdoch, Lucknow, Ont | James Weidman, Rat Portage, Ont
M. Nicholson, Rat Portage, Ont

Officers:

Chas. E. Neads, President.
John G. Murdoch, Vice-President. — James Weidman, Secretary-Treasurer.
Llewellyn A. Morrison, Managing Director.
James E. Harrison, Field Superintendent.

Head Office: Rat Portage, Ont.

Formed to carry on the business of prospecting, purchasing, developing and selling mining and mineral lands, the mining, milling, shipping and sale of ores and minerals, the erection, equipment and sale of mechanical plants, and the transaction of any other line of business relating to mining. At date of report, owned and was developing the Wimor, Electro Gold, Leader, Lucknow, Murdoch, Picture Lake, 300 P, McCallums Point, and other properties in the Lake of the Woods, Ontario.

RAMBLER AND CARIBOO CONSOLIDATED GOLD AND SILVER MINING CO., Limited.

Registered in British Columbia, May, 1896. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Directors:

J. B. McArthur, Rossland, B.C. | John J. Humphrey, Pullman, Wash.
Alfred Coolidge, Colfax, Washington | A. F. McClaine, Tacoma, Wash.
Wm. Hastie Adams, Kaslo, B.C.

Officers:

J. B. McArthur, President.
John J. Humphrey, Vice-President. A. F. McClaine, Secretary-Treasurer.
Wm. Hastie Adams, General Manager.

Head Office: Spokane, Wash.

CANADIAN OFFICE:
Kaslo, B.C.

Owns and operates the Rambler, Cariboo, Antelope, Tiger and Best Fraction claims, near Kaslo, in the Slocan District, Province of British Columbia. Mr. Carlyle, in his report to the Minister of Mines, describes the property as follows:—

"Although the ground embraced within the limits of this property has hardly yet begun to be prospected, two different series of veins have been discovered and are being worked. The veins first found were two quartz veins in the same granite as the Best, with the same character of ore, but when building a trail a narrow streak, of a finger-width of red and brown iron oxides, betrayed the existence of a typical silver-galena vein, running through the Slocan slate series and porphyry, close to the contact with granite area, and since following this streak 3 feet of solid high grade ore have been found in one of these tunnels. Galena ore in good quantity has been found in other veins on which a little work had just been done, and every indication pointed to the high value of this property.

(A.) *Veins in the Granite.*—About half way up the slope of the ridge of the granite, two strong quartz veins 200 feet apart, traceable to the summit 400 to 500 feet above, had been entered by two tunnels, and the strike of each was about N. 20° E., by S. 20° W., nearly at right angles to Best veins, a short distance away. In one tunnel, 20 feet along the vein, dipping easterly 70°, consisted of a very white crystalline quartz, with druses, 3 to 20 inches wide, with parts of the vein strongly impregnated with grey copper and jamesonite, and in the other tunnel, 75 feet long, the vein, dipping easterly 40° to 50°, was continuous with a width of 2 to 20 inches of very fine looking tetrahedrite or grey copper ore from a small slope in which it was stated, 18 tons shipped to the Pilot Bay smelter had assayed 499 ounces of silver per

RAMBLER AND CARIBOO CO.—Continued.

ton, $7.50 in gold, and 2 per cent. copper. No work was being done on these veins at time of visit, but large and commodious cabins, ore-house, etc., were being erected, there being a good supply of large timber in the basin.

(B.) *Silver Lead Veins.*—The vein material mentioned above had been traced on the surface for over 400 feet by cuts, and tunnel No. 1, after being run as a cross-cut for 78 feet through porphyry and slate, had been drifted for 30 feet (Sept, 6th) along a vein of solid galena ore, in places a few inches wide, in others 12 to 24 in., and at one point in the drift there were two bands of galena along what made the walls of the drift, with crushed country rock between. Along the planes of bedding and fracture in the rock there were iron pyrites and galena, and the country rock was impregnated with pyrites. In tunnel No. 2, 170 feet long and 50 feet above and 115 feet beyond the face of No. 1 drift, the vein varies from 3 to 4 inches to 2 and 3 feet in width, but at the face the ore was scattered through the country rock. On the ridge a small tunnel exposed 2 feet of solid ore, of which 15 tons had been piled outside, and this vein appeared to be traceable for several hundred feet to some stopes made by some leasers in 1893 on the Antelope ground on the slope of the ridge overlooking the Dardenelles basin. Although these stopes were badly caved in, the vein was seen to be lying very flat, with 2 to 3 feet of mixed ore, and in one place 2 feet of solid galena ore, and during the present winter this vein will be properly prospected and put in shape for mining."

The galena ore shipped, as per smelter returns, has yielded from 79.6 to 273.3 ounces of silver per ton, and 31 to 64 per cent. lead, one lot of 27 tons netting $185.12 per ton, while the carbonate ores, running 22½ per cent. lead, assayed 166 to 178.5 ounces per ton of silver.

SHIPMENTS.

Ore shipments to date, amounting to $183,189.78 have resulted from the mining operations confined to part of the vein not exceeding 500 feet along the lead, and what makes it a still more satisfactory condition is that not one dollar has been extracted from even this small portion of the company's territory at a greater depth than 200 feet, at which depth ore chutes have been encountered carrying exceptionally high values in both silver and lead, namely, 300 to 1,000 ozs. in silver and from 60 to 70 per cent. lead to the ton of 2,000 pounds, an increase in value, in silver at least, of 100 per cent. in the last hundred feet of depth attained.

TOTALS.

Dry weight		3,361,181 pounds.
Freight	$16,977 23	
Duty	15,832 02	
Treatment	21,907 49	
Net returns	128,473 04	
Gross returns	$183,189 78	

SMELTER RETURNS TO BE RECEIVED ON SHIPMENTS.

125 tons, April—Estimated $10,000 00

RAMSDELL MINING AND MILLING CO., Limited.

Registered in British Columbia, 3rd February, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers :

J. H. Ramsdell, President.
R. S. Bingham, Vice-President. Hiram E. Garretson, Sec.-Treas.
C. Kearney Hammond, Manager.

Head Office : H. E. Garretson, 422 Fidelity Bdg., Tacoma, Wash.

Canadian Office: Sandon, B.C.

Owns and is developing the Sapphire and Jem mineral claims, located on Payne Mountain, three miles from the town of Sandon, British Columbia.

RAND GOLD MINING CO. OF WABIGOON, Limited.

Incorporated 5th May, 1897. Authorized Capital, $1,000,000, in shares of $1.00 each.

Directors :

Geo. Aske, Brandon, Man. | T. McNea, Wabigoon, Ont.
W. Cowan, " " | J. McDougall, " "
J. S. McKellar, Wabigoon, Ont.

Formed to carry on in all its branches the business of a mining, milling, reduction and development company.

RANDOLPH GOLD MINING CO., Limited.

Incorporated 28th March, 1899. Authorized Capital, $1,000,000, in shares of $1.00 each.

Directors :

R. N. McLean E. J. Kelly A. H. Coe E. L. Tate W. S. Smith
C. F. Bailey L. P. Hole

Officers :

R. N. McLean, President.
E. L. Tate, Vice-President and Treas. A. H. Coe, Secretary.

Owns a mineral claim located S. E. of the town of Rossland, British Columbia.

RATHMULLEN CONSOLIDATED MINING AND DEVELOPMENT CO., Limited.

Incorporated in British Columbia, February, 1897. Authorized Capital, $2,500,000, in shares of a par value of $1.00.

Officers:

J. M. O'Toole, President.
J. B. Henderson, Vice-President. L. H. Moffat, Secretary-Treasurer.

Directors:

J. M. O'Toole W. M. Wood Alex. Nicoll W. J. Whiteside
C. S. Wallis J. B. Henderson L. H. Moffat

Head Office: Rossland, B.C.

Mines Office: Grand Forks, B.C.

Owns and is developing a group of some sixteen mineral claims, comprising the Rathmullen, Glasgow, Trafalgar, Westward Ho, Lansing, Ben Hur, Malta, Rob Roy, Gibraltar, Helen Ray, Ione, Nannie E., Belle Marie, Maple Leaf and Chieftain, situated in the Kettle River Mining Division of Yale District, British Columbia. The greatest development so far has been done upon the Maple Leaf claim, where two shafts, 12 ft. and 66 ft., have been sunk, and a crosscut driven 81 ft. to test the vein. The ledge is reported to be about 30 ft. wide, yielding gold, copper and silver. A small force employed opening up the property.

RAT PORTAGE GOLD MINING CO., Limited.

Incorporated 1896. Authorized Capital, $1,000,000 in shares of $1.00.

Directors:

D. C. Cameron, President.

Angus Carmichael	J. H. Neeve	Henry Langford.
Hugh Armstrong	C. W. Chadwick	Geo. Barnes

Head Office: John H. Challoner, Secretary, Rat Portage.

C. H. Park, Mining Engineer.

Owns and is developing Location 640 P., known as the "Master Jack" gold mining claim, comprising 37 acres, Blind lake, Lake of the Woods District, Province of Ontario.

RAVEN COPPER AND GOLD CO., Limited.

Registered in British Columbia March, 1897. Authorized Capital, $1,000,000 in shares of a par value of $1.00.

Directors:

Edward Blewett
R. E. Blewett — H. W. Fraser
Otto Morstrand — A. B. Knowlton

Head Office: Seattle, Wash.

Mines Office: Van Auda, B.C.

Owns and is developing three mineral claims on Texada Island, British Columbia. Opened by shafts, at date 145 ft. and 200 ft.

RECO MINING AND MILLING CO., Limited.

Incorporated 10th November, 1896. Authorized Capital, $1,000,000. Dividends paid $275,000.

Directors:

J. M. Harris
F. T. Kelly — S. M. Wharton
G. C. Wharton — C. J. Smith

Head Office: J. M. Harris, Managing Director, Sandon, B.C.

F. T. Kelly, Secretary-Treasurer.

Owns and operates the "Reco," "New Denver," "Clifton," "Texas," and "Ephraim" mineral claims in the Slocan District, British Columbia.

Two distinct silver-lead veins are being worked, *i.e.*, (1) Big vein and (2) the Small or Goodenough vein, and in all probability veins lying in contiguous claims will be discovered, on prospecting, to extend into this territory. This mine affords another example of the opening up and development, and the purchase of other claims without any capital save that got in mining, from the beginning of work, of rich ore. On the Big vein have been run three tunnels, from which have been taken most of the ore extracted from this lead, save that from one small stope that yielded over $16,000; and in tunnels No. 1 and 3, the former 650 ft. long, and the other 900 ft.

RECO MINING AND MILLING CO.—Continued.

long, connected by a raise 125 ft. long in the vein ; the vein consists mostly of decomposed vein matter, in places a few inches wide, in others several feet. Work on this vein so far has been confined to purely development during the past year, and in 1895, four carloads of galena, the ore yielded on an average of 178.8 ozs. silver per ton, and 71 per cent. lead (smelter returns), while the carbonate ore, or nine carloads, yielded from 89.3 to 161.6 ozs. silver per ton, and 23.2 to 37.1 per cent. lead.

From the Small or Goodenough vein, lying several hundred feet to the east, has come the richest silver-bearing galena yet found in Kootenay, the silver evidently occurring as argentite, although much ruby silver is found in some of the solid galena. The mining operations are being carried on in co-operation with the Goodenough mine, and three tunnels, Nos. 2, 4 and 6 have been driven to and then extended both ways along the vein in each of these properties ; the vein being from 2 to 3 in. wide up to 20 inches of solid ore, with in places only a narrow streak of iron-stained matter. The ore so lies that generally the ground can be mined out along it, leaving the ore to be afterwards broken down clean. The ground is faulted in one place with a lateral throw of the vein for 10 ft., and where the vein passes through the porphyry dykes the ore shute is found, generally, to be about the most productive part of the vein. From these tunnels several hundred feet of drifting have been driven, the vein being not always productive, but in the miners' term "in and out," and these levels will be continued much further before reaching the limits of the claim.

This ore, while mined from a small vein, is very profitable, and in August several tons of rich ore was piled at each tunnel mouth, and the following data from smelter returns will give some idea of the value :—The galena ore has run from 225 to 730 ounces of silver per ton, and 67 per cent. lead ; one lot of 21 tons assaying 730 ounces of silver per ton and 67 per cent. lead ; and two shipments in 1896, or 45 tons, yielded net (or 95 per cent. of assay) 24,820 ounces of silver, and 27 tons of lead, or $340 per ton after deducting all charges.

The carbonate ore from this vein, for 20 carloads, has yielded from 230 to 337.8 ounces of silver per ton, and 19 to 28 per cent. lead.

At date of report a concentrator, of a capacity of 120 tons, and a wire rope cable-way had been contracted for.

Tunnels 2, 4, 6, on the No. 2 vein, have been extended to about 1,000 ft. each, and No. 8, now being run to tap the vein, is now in about 700 ft. Concentrator and tramway will be built as soon as the mine is sufficiently developed to keep them in continuous operation.

Output since 1894 to end of 1898 estimated to be of the value of $420,000.

RECORDIA (BRITISH COLUMBIA) EXPLORATION CO., Limited.

Registered 1897. Authorized Capital, £200,000, in shares of £1.

Directors:

Col. W. J. Engledue	Sir George S. M. Thomas, Bart.
W. A. Bromwich	Thomas Rickard

Head Office: M E. Penman, 49 Queen Victoria St., London, E.C., England.

Formed for the purpose of acquiring all the properties, options and assets of the Recordia Syndicate, Limited, including (*a*) The Anaconda group, comprising three mining properties known as the Anaconda, Kootenay and Columbia, in all about 150 acres, situated in the Deadwood Camp, Boundary District, British Columbia. (*b*) The right to acquire the Gold Coin mine, comprising 155 acres, and situated about a mile S.E. of the Mikado Gold mine, Lake of the Woods, Province of Ontario; and also the following options: (*c*) Three quarters interest in the following: (1) Over 2,000 acres of coal land situated near White Lake, Osoyoos Division, Yale District. (2) 460 acres at Grand Forks City, and in a one-half interest in 1,000 acres at Grand Forks City. (3) All unsold building lots in Grand Forks City, adjacent to the site of proposed smelting works. (*d*) The right to acquire two Gold Mining Locations, the total area of which is about 80 acres, and situated near Schreiber, Ontario, close to the Otisse mine, within 1½ miles of the main line of the Canadian Pacific Railway, for a consideration payable partly in cash and partly in shares of a company to be formed. The company will also acquire the benefit of all negotiations and options which the Dominion Explorers, Limited, have obtained over mining and other properties in Ontario and British Columbia, included in which are negotiations for the acquisition, on favorable terms, of 160 acres, situate near Schreiber, Ontario, immediately adjoining the property known as the Otisse mine, and the Waterworks and Electric Light Company of Rossland, British Columbia, which is already working at a good profit, with every prospect of increase, due to the rapid growth of the town. The waterworks will not only be a promising investment in itself, but the use of the surplus water for concentrating purposes should be of great value. The total purchase price of the properties, options and assets of the Recordia Syndicate, Limited, (who are the vendors), and the assets of the Dominion Explorers, Limited, hereinbefore mentioned, has been fixed at £140,000, payable as to £8,000 in cash, the balance in fully paid shares, thus making the profit of the vendors entirely dependent on the success of this company, and leaving 60,000 shares to provide working capital.

RECORDIA SYNDICATE, Limited.

Registered 31st March, 1897. Authorized Capital, £5,000, in 3,500 ordinary shares of £1 each, and 1,500 deferred shares of £1.

Directors:

W. A. Bromich, Chairman.
R. Emmett Large. Arthur F. Evans.

Head Office: A. Powles, Secretary, Swan House, Copthall Avenue, London, E.C.

Formed to acquire and deal with mining properties in British Columbia. The syndicate entered into an agreement with Alfred Woodhouse, M.I.M.M., and E. M. M. Munns, under which they have agreed to devote the whole of their energies for a period of 12 months in inspecting mining and other properties in British North America, the syndicate having the right to acquire from them all options over properties, on the same terms as they acquired them, in consideration of which 950 fully paid deferred shares were to be allotted to E. M. M. Munns (the promoter) and 400 fully paid deferred shares to Alfred Woodhouse. The whole of the property and assets have been sold to the Recordia (British Columbia) Exploration Company, Limited.

RED MOUNTAIN IDA MAY GOLD MINING CO., Limited.

Incorporated in British Columbia, 28th December, 1896. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

William N. Dunn, President.
A. S. Goodeve, Vice-President. C. O. Lalonde, Secretary-Treasurer.

Head Office: Rossland, B.C.

Owns and is developing the Ida May mineral claim, one mile north of Rossland, British Columbia.

RED MOUNTAIN VIEW MINES, Limited

Incorporated in British Columbia, 14th October, 1898. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Head Office: Rossland, B.C.

Formed to purchase or acquire all of the assets of the Red Mountain View Gold Mining Company, Limited Liability, and to purchase and acquire

RED MOUNTAIN VIEW MINES—Continued.

the interest or shares of any or all of the shareholders in the Red Mountain View Gold Mining Company, Limited Liability, and to issue paid up stock of the company, or stock of the company in part paid up or both therefor. And to adopt and carry into effect, with or without modification, certain agreements which have been already prepared and are expressed to be made between the Red Mountain View Gold Mining Company, Limited Liability, of the one part, and Arthur Foster Corbin, of the same place, on behalf of the company, of the other part, and which agreements are to be signed immediately after the incorporation of the company, copies whereof have, for the purpose of identification, been subscribed by Albert Howard MacNeill, Esquire, a solicitor of the Supreme Court. And also to adopt and carry into effect an agreement made between the said the Red Mountain View Gold Mining Company, Limited Liability, and its liquadator and the company which has the object of carrying out any arrangement under section 13 of the Companies Winding-up Act, 1898.

RED STAR MINING AND DEVELOPMENT CO., Limited.

Incorporated in British Columbia, 8th May, 1897. Authorized Capital, $250,000, in 1,000,000 shares of a par value of 25 cents.

Directors:

R. L. Reid H. J. A. Barnett Jas. L. Card Matthew Phillips
C. H. DeBeck

Head Office: New Westminster, B C.

At date of report was negotiating for the purchase of certain mining properties in British Columbia.

REVELSTOKE MINING CO., Limited

Registered in England 10th December, 1896. Authorized Capital, £10,000, in 1,356 preference shares of £7 each and 2,032 ordinary shares of 5s. each; the liquidator of the old company received for distribution among the old shareholders 1,352 fully paid new preference shares and 2,000 fully paid new ordinary shares.

Head Office: C. A. Whitfield, Secretary, St. Clement's House, St. Clement's Lane, London, E.C.

Formed to acquire certain properties and assets of a company of the same name (in liquidation).

REGINA (Canada) GOLD MINE, Limited.

Incorporated December, 1894; reconstructed January, 1896. Authorized Capital, £150,000, in shares of £1, of which £127,000 is issued.

Directors:

Lieut.-General Sir Henry Wilkinson, K.C.B., Chairman.
H. Chester Master — Col. Mallard — W. Rivett-Carnac

CANADIAN OFFICE:

J. Mieville, General Manager, Regina Mine, Lake of the Woods, Ont.

Head Office: J. L. Middleton, Secretary, 13 Walbrook, London, E.C.

Owns Mining Location 566 P (comprising 35 acres), and 567 P (comprising 42 acres), and a water location of about 200 acres, situated in Regina Bay, Lake of the Woods, 45 miles S.E. of Rat Portage. Communication with Rat Portage by company's steamer: 5 hours. The property contains six gold-bearing quartz veins; No. 3 only is as yet worked. Opened at date by one shaft down 475 ft. and one down 69 ft.; tunnels 214 ft.; 14 drifts aggregating 2,634 ft.; crosscuts, one 30 ft. and one 10 ft.; overhand stoping. 27 persons employed in 1898.

The mining and milling plant comprises:

Boilers—Three return tubular, 2 of 125 h.p. and 1 80 h.p.
Compressors—One 12 drill, Ingersoll-Sergeant.
Rock Drills—Twelve Ingersoll-Sergeant.
Hoisting Engine—One Bacon.
Rock Breaker—One No. 3 Gates.
Tremaine Mills—Eight in place, equal to 40 stamps.
Cyanide plant, electric lighting, etc.

During 1898 7½ months' milling gave a gold yield of a value of $28,633.23.

DIRECTORS' REPORT

(From 1st July, 1897, to 31st August, 1898.) Presented 30th December, 1898.

The Directors beg to submit to the shareholders their Report and Statement of Accounts for the period ending August 31st last.

The Accounts, as presented herewith, cover a period of fourteen months, viz., from July 1st, 1897, to August 31st, 1898. This extension of the Accounts to fourteen months was considered advisable as it enables the cost of the new plant and its erection to be dealt with, as by the 31st August delivery of the plant was completed and its erection was also practically completed.

The Chairman, Sir Henry Wilkinson, has been at the Mine since the beginning of May last and is there at the present time. It had been hoped he would have been here to take the chair at the general meeting, but he has decided that he could best serve the interests of the shareholders by remaining at the mine, and it is his intention to spend the winter there.

REGINA (Canada) GOLD MINE—Continued.

From July 1st last year, until about the 1st of May this year, the development of the mine was pushed ahead as rapidly as possible. At the latter date development was almost entirely suspended, as all hands were required for prepairing for the erection of the new and enlarged plant. The then existing machinery had to be dismantled and foundations, &c., prepared. This work necessarily took up much time, as large quantities of rock had to be blasted to provide the space required.

The erection of the new plant commenced as soon as the Lake was free from ice and available for navigation, thus enabling delivery at the mine of the machinery and the materials for new buildings, &c., &c. The work was successfully completed by the end of August, and the mill commenced making returns in September. In addition to this a suitable house for the manager was erected, also a new goods store and a new drying or changing room for the miners, and numerous much needed improvements made in the accommodation for the men and their families.

A reading-room has been established and is much appreciated, as, owing to the isolated position of the mine, no other form of amusement or recreation is available, each workman paying $1 per month towards the expenses of supplies of books and papers. During the daytime the reading-room is used as a school-room for the children.

New Plant.

The new plant comprises 1 Compound Double Cylinder Air Compressing Engine, to drive 10 Rock Drills, with a complete equipment of drills, tripods, &c.

A Battery of 8 Tremaine Steam Stamp Mills, equal to 40 head of gravity stamps. Seven of these mills are erected and have been at work since September, the eighth mill left Chicago on November 4th, and should be at work by this time. These mills have so far given every satisfaction.

Development of Mine.

The main shaft is sunk to a total depth of 434 feet (depth 30th June, 1897, 309 feet).

Tunnel			total	distance	driven	214 feet.
1st	level	South	"	"	"	133 "
2nd	"	"	"	"	"	400 "
2nd	"	North	"	"	"	63 "
3rd	"	South	"	"	"	229 "
3rd	"	North	"	"	"	181 "
4th	"	South	"	"	"	254 "
4th	"	North	"	"	"	75 "
5th	"	South	"	"	"	178½ "
5th	"	North	"	"	"	58 "
6th	"	South	"	"	"	216 "
6th	"	North	"	"	"	353½ "
7th	"	South	"	"	"	112 "
7th	"	North	"	"	"	46 "
Total driven.....						2,513 feet.

REGINA (Canada) GOLD MINE—Continued.

The sinking of the Main Shaft has been discontinued for the present, pending the erection of a more powerful hoisting engine, which is necessiated by the great depth now attained, but it is extremely satisfactory to know that the last assays taken from the bottom of the shaft give about 10 dwts. per ton. In the last letter received from the Chairman, he states, however, that he hopes to be able with the present engine to sink the shaft to the 500 feet level, and thus enable the eighth level to be started.

Since crushing commenced in September, up to the end of November, abont 750 ozs. of gold have been won. This result, although not perhaps equal to expectations, is so far satisfactory in that it makes the mine self-supporting.

The cost of mining and milling the ore are very low, owing to the many natural advantages of the situation of the mine, and the Directors have every reason to believe, judging from the results of the last three months' working, that the estimate of 3½ dwts. per ton will cover the whole of the expenses of extraction and milling.

BALANCE SHEET (INCLUDING RECEIPTS AND EXPENDITURE FOR FOURTEEN MONTHS) AT 31ST AUGUST, 1898.

Dr.

	£ s. d.	£ s. d.
To Share Capital, viz.:—		
Authorized—		
150,000 shares of £1 each.		
Issued—		
127,118 ordinary shares, fully called..	127,118 0 0	
18,419 priority shares, fully called....	18,419 0 0	
	145,537 0 0	
Less calls in arrear.....	19 10 0	
		145,517 10 0
" First mortgage debentures, viz.:—		
As per last account.....	16,000 0 0	
Less bonds purchased by the company.....	1,360 0 0	
	14,640 0 0	
Add interest accrued at 10 p.c. per annum.....	678 0 0	
		15,318 0 0
" Sundry creditors.....		5,292 13 3
" Sundry loans.....		2,228 2 3
		£168,416 5 6

REGINA (Canada) GOLD MINE—Continued.

Cr.

	£ s. d.	£ s. d.	£ s. d.
By expenditure on Capital Account, viz.:—			
For purchase of property, being balance of undertaking taken over from the old company			131,047 13 10
On Development, management, etc., viz.:—			
As per last account		13,031 9 11	
Sinking shafts, driving levels, materials, stores, milling, assaying, etc.	12,081 1 10		
Buildings, plant, machinery	8,852 2 8		
Management and general expenses in Canada	1,686 10 9		
Directors' fees	429 3 4		
Secretary's salary and rent of offices	232 15 6		
Cablegrams, printing, stationery, stamps, travelling and miscellaneous expenses in London	239 6 7		
Interest and bank charges	31 18 4		
Expenses of issue of priority shares	184 15 0		
Loss on exchange	30 12 0		
		23,768 6 0	
		36,799 15 11	
Less proceeds of bullion won for the year	4,779 12 9		
" Sundry profits	694 15 0		
		5,474 7 9	
			31,325 8 2
By interest on debentures, from 1st March, 1896, to 31st August, 1898, at 10 p.c. per annum			3,733 6 8
" Materials and stores on hand			1,058 11 2
" Cash at bank (London)			1,251 5 8
			£168,416 5 6

R. E. LEE GOLD MINES, Limited.

Incorporated in British Columbia, 14th Sept., 1898. Authorized Capital, $2,000,000, in shares of a par value of $1.00.

Head Office: Rossland, B.C.

Formed to purchase or acquire, by amalgamation or otherwise, all of the assets, rights, powers, privileges and franchises of the "R. E. Lee Gold Mining Co., Limited Liability," and to purchase and acquire the interest or shares of any or all of the shareholders in the "R. E. Lee Gold Mining Co., Limited Liability," and to issue paid up stock of the company, or stock of the company in part paid up, or both therefor. And to adopt and carry into effect, with or without modification, certain agreements which have been already made and are expressed to be made between the "R. E. Lee Gold Mining Co., Limited Liability," of the one part, and Archibald B. Mackenzie, of the same place, on behalf of the company, of the other part, and which agreements are to be signed immediately after the incorporation of the company, copies whereof have, for the purpose of identification, been subscribed by Charles Robert Hamilton, Esq., a solicitor of the Supreme Court. And also to adopt and carry into effect any agreement made between the said the "R. E. Lee Gold Mining Co., Limited Liability," and its liquidator, and the company, which has the object of carrying out an arrangement under section 13 of the "Companies Winding-Up Act, 1898."

R. E. LEE MINES (OF SLOCAN).

Owned by Mr. G. Alexander *et al.*, of Kaslo, B.C. Incorporation pending.

Head Office: Box 122, Kaslo, B.C.

Mines Office: R. E. Lee Mine, Sandon, B.C.

This mine is located near the town of Sandon, Slocan Mining District of British Columbia. The ore mined averages 160 oz. silver and 60 per cent. lead. Opened by one shaft, down at date 200 ft., and four tunnels, from 1,200 ft to 100 ft. respectively. At date of report the work was confined to driving the lower tunnel (now in 1,200 ft.) to strike the ledge at a depth of 1,000 ft.

REPUBLIC GOLD MINING CO.

Registered 30th May, 1896. Authorized Capital, $750,000.

Head Office: Spokane, Wash.

Mines Office: W. T. Smith, Greenwood, B.C.

Owns and operates the Republic, None-Such, Last Chance and Hidden Treasure claims, situated about four miles from Greenwood, Boundary Creek District, Yale Division, Province of British Columbia. On the None-Such two tunnels have been driven to explore an irregular vein of white quartz, carrying a little iron and copper pyrites, on the trend of which 800 ft. to the north-west rises the eruptive mass of granite that runs up this valley. The upper tunnel, 100 ft. long, shows a vein of 1.5 to 4 ft. wide, but the lower, 240 ft. long, with a 60 ft. cross-cut, was along the vein at the beginning, but shows nothing but stringers of quartz in the schists for most of its distance. Last Chance, on the timberless slopes, is an irregular vein, from 1 to 30 ins. wide, of white, banded quartz, with galena, gold and native silver, and coarse crystalline iron pyrites. This vein is nearly conformable with the enclosing black slates, and is more or less contorted and irregular, as seen in the incline, 95 ft. deep being sunk on this vein, on a dip of 35 to 50 degrees. Several tons of fine-looking ore showing the native silver were on the dump, and the vein can be traced in several open cuts. Republic, on the face of the bluff, overlooking Boundary Creek, is a vein with the same strike as the Last Chance vein, but cutting across the slates, 12 ins. wide, an incline was down 50 ft. on what was said to be a very uniform vein, and on the dump were 2 or 3 tons of ore or quartz, with much galena, iron pyrites and some blende and copper pyrites, an average sample of which was stated to have assayed 3 oz. gold and 18 oz. silver. (See Mines Report, B.C., 1897.)

The same Report for 1898 says:—The most important of this work on the Non-Such was the extension of the upper tunnel from 140 to 300 ft., and the making from this of an upraise 67 ft. to the surface. The tunnel was run on the vein, which, though irregular, showed a width of about 3 ft. 6 ins. in the face of the tunnel. The ore is iron and copper pyrites in white quartz, and it is said to return average assay values of $18 to $20. The other claims in this group, Republic, Last Chance, and Hidden Treasure, are practically as they were at the close of 1897.

RICHARDSON GOLD MINING CO.

Paid up Capital, $100,000. Organized 1892.

Directors :

George A. Pyke, President.
A. N. Whitman — Thos. Spry
S. Sweet — S. R. Griffin

Head Office : A. B. Cox, Manager, Isaac's Harbor, N.S.

Owns 126 gold areas at Gold Brook, in the Stormont District, Nova Scotia.

The Richardson belt is composed of slate and quartz, between regular walls of whin. It is located in what is known as Stormont Gold District as the Gold Brook anticlinal (also called the Upper Seal Harbor anticlinal), the course of which is N. 62 degrees W. and S. 62 degrees E., and along which auriferous belts, lodes and drift have been discovered for a distance of three miles.

The Richardson belt was first discovered and worked on its south dip, where the average width was eleven and a half feet. In working west the belt narrowed down considerably. Eastward the belt turned in a northerly direction, increased in width to eighteen feet, and lay very flat, the dip changing from south to east ; continuing, it swung around and ran westwardly, assuming a north dip, and growing smaller again than on the turn.

The mill for crushing this ore is located about three hundred yards from the mine on the shore of the lake, from which the water supply is obtained. The ore is conveyed from the mine in cars running over steel rails, laid the greater part of the distance on trestle work. These cars are hauled by means of a steel cable, the power being taken from the mill. The total expense for haulage averages about three cents per ton, including renewals of cars, ropes, wheels, axles, etc.

When first started the mill was furnished with but fifteen stamps ; a few months later the number was increased to twenty, and later to forty. At date of report it is proposed to increase the mill to sixty stamps.

The following extract from a report to the directors in June, 1894, may be of interest, it being remembered that the mill then consisted of twenty stamps, with hand breaking and feeding :

"At the mine three shafts have been sunk. The west shaft is not more than 30 feet deep, and was put down mainly to test the length of the belt, which is here about seven feet wide.

"The middle shaft is down 100 feet ; width of belt here from eight to fourteen feet. Tunnels and stopes are driven west from here 72 feet, or to a point within 18 feet of the west shaft."

RICHARDSON GOLD MINING CO.—Continued.

The labor expenses here for drilling and blasting amounted to 26 cents per ton. The cost of dynamite per ton of ore sent to mill was 3½ cents.

"Tunnels and stopes are also driven east from here to connect with the east shaft, which is 108 feet deep. The southerly dip of the middle shaft is about 52 degrees from the horizontal; that of the east shaft about 42 degrees. East of the east shaft a tunnel has been driven on the belt 89 feet, the belt at this point having a width of 17½ feet. Here a bend of 70 to the northward takes place in the course of the belt. A tunnel has been driven here on the belt for a distance of 85 feet, the dip being 23 degrees in an easterly direction, the width 18 feet."

The total cost for mining, transporting to mill and milling at this time was $2.90 per ton, including an allowance for total depreciation in value of plant for five years, and for taxes, insurance and all charges.

"The belt for the most part is composed af one large lode on the back-wall side varying in width from one to four feet, and a varying number of smaller lodes intermixed with slate. At places nearly the entire belt is quartz, and gold is sometimes found in the soft slate between the lodes. Not enough black or waste rock can be obtained below to load the scaffolds; and the walls have to be supported by leaving in blocks or pillars of ore."

It may be stated here that the underhand method of stoping was employed. In an attempt to use the overhand method it was found that the slate between the veins of quartz was not firm and solid enough to hold the quartz in place overhead, and, consequently, large masses of rock were falling, making it dangerous to the miners beneath. At greater depth the slate becomes more firm and solid, and overhand stoping may be resorted to.

At this time hoisting was done from the east and middle shafts by a single cylinder engine, geared to a single friction-drum. The gear was so located that the rope could be shifted from one shaft to the other as occasion required. Wheelbarrows were used below ground as a means of transporting the ore to the shaft; and the ore was then hoisted in tubs to the surface, where it was washed, the waste rock thrown out, and the good ore shovelled into cars to be hauled to the mill.

Since then the belt has been followed farther west on the south dip; the east shaft, now the pump shaft, sunk to a depth of 200 ft., and the belt driven and stoped on around the turn and followed west on the north dip. At the time of writing the belt produces more waste slate than in 1894.

The present plant consists of a hoisting, pumping and breaking gear, located on the apex of the semi-cone formed by the turn of the belt. Two shafts are worked from here, one on the south dip and one on the north. The bottoms of these shafts are about 250 ft. apart, as measured on the belt around the turn; and as they are sunk this distance is of course increasing. At the surface they are 48 ft. apart, and converging towards each other. At

RICHARDSON GOLD MINING CO.—Continued.

a height of 26 ft. above the surface the skip-tracks from each meet above the same deck-head; and self-dumping skips empty their loads beside the same rock-breaker. The "sump" at the deck-head into which the skips dump their loads is lined on the bottom with open sand-cast iron plates, ⅞-inch thick, laid in ⅝-inch of cement. The ore is here thoroughly washed, the waste rock thrown into trolleys and run out on the dumps, and the good ore shovelled into a hopper, which drops it into the jaws of a 9 x 15 inch Blake breaker, from which it falls into a bin. Cars are run under the bins where the ore is allowed to fall into them. They are then run out on the main track and hauled by the wire cable to the mill, where they are dumped into a bin of 500 tons capacity. Thence the ore runs through shoots into the automatic feeders supplying the mortars. Copper plates are used inside these mortars. The surface dimensions of the outside plates are 12 ft. 6 in. by 4 ft. After passing over the outside plates and through mercury traps the sand is discarded, no attempt being made at concentration.

In the mine every attention has been paid to working the rock to the greatest advantage. On account of the dip to the seams in the belt, it has been found that two drills working toward the west accomplish as much as three drills working towards the east. The works below are now supplied with a regular system of tracks, over which the ore is conveyed in trolleys to the electric-lighted loading stations at the shafts. The south shaft, being the main shaft, is supplied with two skip tracks, one for the east and one for the west ore. The pump way is between the skip tracks and a little below them, or nearer the foot-wall, thus being out of the way when ore is being loaded into the skips or timber being unloaded from them. The ladder-way is a compartment by itself, cribbed up under the foot-wall cribbing, where it passes through the surface material, thus being out of the way of anything which could fall or injure a man. The slope of the shaft is so flat that no ladder is required to get at the pump. The north shaft has a skip-way in the east end and a ladder-way in the west end. The stopes were started from the east side of the south shaft and carried round to the north shaft—this rock being hoisted from the south shaft. The stopes are then continued west beyond the north shaft and the ore hoisted from the north shaft. Thus, while ore has been hoisted from both shafts, the sinking and expenses connected therewith have been confined to one shaft. The number of hand-drills employed here to produce 2,000 tons of crushing ore per month has never exceeded nine—two men to a drill. The surface plant at a mine consists of a 60 h.p. tubular boiler set in brick, and a 50 h.p. compound engine set on concrete foundation. Floors of engine and boiler rooms are of concrete. The hoisting machine is a double drum one, built especially by the Jenckes Machine Co., and laid on a concrete foundation. The drums are side by side, and of the usual cone-friction type; but instead of being driven

RICHARDSON GOLD MINING CO.—Continued.

by two small cylinders attached to it, its driving shaft is driven by belt and pulley from the compound engine, the same engine serving to drive the pumping gear and the rock-breaker. The experience here has been that it is far more economical to drive everything from one compound engine than from a number of smaller ones, particularly where all machines are working continually day and night. The engineer fires his own boiler, and no extra attendance is required for the hoisting machines. Thus the deckman, when not engaged in bringing up or lowering skips, can wash and assort ores.

The water from the mine pump is discharged into a tank under a hatch in the peak of the roof. A hose from this serves for washing quartz or for fire purposes. The building is heated by exhaust steam from the engine, and, like the mill, forge, workshops, stables, office, manager's house, etc., is lighted by electricity.

At the mill the plant consists of forty 850 lb. stamps, two return tubular boilers, one 16 x 42 Corliss engine, one Worthington duplex steam pump, 3½ in. suction and 3 in. discharge, one Northey pump of the same description, a dynamo for lighting purposes, and the hauling gear for bringing the ore from the mine. The forty stamps are arranged in a row, and the ore bin extends the full length of the batteries.

The ore cars enter the building at right angles to the ore bin, are turned on a table and run along the top of the bin to be dumped wherever the ore may be most required. One mortar is reserved for test purposes, the bin in front of it having a partition to keep the test ore separate from the regular ore.

The stamps drop ninety times per minute, and the mortars are arranged for very fine crushing. At times the gold is so fine as to be indiscernible to the naked eye. An instance of this was when 4,000 tons of ore were milled in which not a color of gold was seen, but which when cleaned up gave a fair profit.

With this plant the total cost for mining and milling, including all charges, was $1.65 per ton.

At the mill but one engineer was employed on each twelve hour shift, it being also his duty to attend to the dynamo and lights. It may be interesting to know that the electric light plant installed here paid for itself in one year in the saving of kerosene oil alone.

GOLD YIELD.

1893.....	2,237	ozs.	18	dwts.	10	grs.	from	6,048	tons	rock milled.
1894.....	1,674	"	10	"	10	"	"	7,016	"	"
1895.....	1,677	"	7	"	..	"	"	10,383	"	"
1896.....	2,550	"	(from 1st Jan. to 31st Dec.)							
1897.....	3,004	"		"		"	"	25,450	"	"
1898.....	2,478	"	5	"		—		24,121	"	"

RIO GRANDE GOLD AND SILVER MINING CO., Limited.

Incorporated in British Columbia, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

F. M. Davis, President. John W. Gillson, Secretary.

Head Office: 39 Columbia Avenue, Rossland, B.C.

Owns the Rio Grande, Champagne, Sandaulphin and Floral Float mineral claims, located on Porcupine Creek, near Ymir, British Columbia.

ROCHE-PERCEE COLLIERY CO., Limited.

Incorporated 1897. Authorized Capital, £16,000 stg., in 16,000 shares of £1.

Directors:

Thomas Gocher. Leonard Gocher. Gilbert Gocher.

Head Office: 83 Colmore Row, Birmingham, England.

Canadian Office: John Little, Coalfields, Assa., N.W.T.

Owns and operates an area of lignite coal land on Sec. 34, Township I, Range 6, west of the 2nd meridian, near Estevan, Province of Manitoba. Seam of 9 feet worked. About 9,000 tons were mined in 1897; in 1898 about 10,000 tons. The working force in the summer months was fifteen, and during the winter forty.

ROCK LAKE MINING CO., Limited.

Incorporated January 18th, 1899. Authorized Capital, $1,000,000, in shares of $10.00 each.

Directors:

A. S. Burrows, Sault Ste. Marie, Ont. | M. Wile, Buffalo, N.Y.
B. G. Coryell, Chesaning, Mich. | L. C. Holden, Sault Ste. Marie, Ont.
B. W. Goodsell, Chicago, Ill.

Head Office: Sault Saint Marie, Ont.

Formed to carry on in all their branches the operations of a mining, milling, reduction and development company.

ROSE MARIE MINES, Limited.

Incorporated in British Columbia, 16th December, 1898. Authorized Capital, £6,500, in shares of a par value of £1.

Head Office: Vancouver, B.C.

Formed to acquire and work mines and mining properties in British Columbia.

ROSSLAND AND BOUNDARY CREEK SYNDICATE, Limited.

Offices: 35 Walbrook, London, E.C.

Registered 8th January, 1898, to adopt an agreement with the Prospecting Syndicate of British Columbia, Limited, by G. Mahon, its attorney, and to carry on the business of explorers, prospectors, miners, smelters, etc. The Authorized Capital is £30,000, in 30,000 shares of £1.

ROSSLAND AND COLUMBIA GOLD MINING CO., Limited.

Incorporated 30th January, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Head Office: Rossland, B.C

Owns the Stemwinder group, comprising four claims, located on the north slope of Lookout Mountain, ¾ of a mile south-west of Trail, British Columbia.

ROSSLAND GOLDEN GATE DEVELOPMENT AND GOLD MINING CO., Limited.

Re-incorporated in British Columbia 8th December, 1898. Authorized Capital, $1,000,000, divided into shares of a par value of $1.00.

Head Office: Rossland, B.C.

Formed to acquire and work mines and mineral territory in British Columbia.

ROSSLAND GOLD MINING, DEVELOPMENT AND INVESTMENT CO., Limited.

Registered in British Columbia 21st April, 1897. Authorized Capital, $2,000,000, in shares of $1.00.

Head Office: Rochester, N.Y.

CANADIAN OFFICE:
Slocan City, B.C.

Owns and is developing the Batchelor Group, comprising 10 claims, on Twelve Mile Creek, 1 mile from Slocan Lake, British Columbia.

ROSSLAND GOOD FRIDAY GOLD MINING CO., Limited.

Incorporated in British Columbia 29th July, 1897 Authorized Capital, $1,500,000, in shares of a par value of $1.00.

Head Office: Rossland, B.C.

Owns and is actively developing the Good Friday mineral claim, situated on the north-west slope of Red Mountain, 1½ miles from Rossland, B.C.

During 1898, the following work was done:—Tunnel No. 1, 238 feet; tunnel No. 2, 245 feet; tunnel No. 3, 98 feet; tunnel No. 4, 160 feet; tunnel No. 5, 37 feet; tunnel No. 6, 28 feet; total, 806 feet. Shaft No. 1, 18 feet; shaft No. 2, 31 feet; shaft No. 3, 35 feet: total, 84 feet.

ROSSLAND HOMESTAKE GOLD MINING CO., Limited.

Incorporated in British Columbia, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

W. G. Johnson, President.
George H. Bayne, Vice-President. D. M. Linnard, Secretary-Treasurer.

Head Office: Rossland, B.C.

ROSSLAND HOMESTAKE GOLD MINING CO.—Continued.

Owns and is developing the Homestake claim, near Rossland, British Columbia.

This property is situated on the east side of Trail Creek, and is contiguous to the Sunset No. 2. Area, 21.3 acres. The main shaft is 10 x 6, 160 feet deep. The prospecting drift, 4 x 5, is 50 feet deep. The drift which connects the shaft is 75 feet long. A number of surface cuts have been made, and the ledge is exposed for 700 feet. Number of men employed, 13. The plant comprises a 5-drill compressor, 80 h.p. boiler and hoist.

ROSSLAND RED MOUNTAIN GOLD MINING CO., Limited.

Re-registered in British Columbia, 30th December, 1898. Authorized Capital, $1,000,000, in shares of a par value of $1.

Head Office: F. Lewis Clark, Secretary-Treasurer, Spokane, Wash.

CANADIAN OFFICE:
Rossland, B.C.

Owns and is developing the Red Mountain mineral claim, near Rossland, British Columbia.

ROSSLAND-SLOCAN MINES DEVELOPMENT CO. OF BRITISH COLUMBIA, Limited.

Incorporated 2nd March, 1897. Authorized Capital, $1,000,000 in shares of $1.00.

Directors:

Hon. T. Mayne Daly, President.

R. Scott, 1st Vice-President
George E. Toms, Treasurer
J. L. Parker, Mining Engineer
J. T. Sheridan

Jos. B. Dabney, 2nd Vice-President
R. C. MacDonald, Secretary
Chas. Dundee
W. R. Ross

Head Office: Rossland, B.C.

Owns the Lone Star and Sibley mineral claims on Sophia Mountain, Trail Mining District, B.C.

ROULETTE MINING AND MILLING CO., Limited.

Incorporated 1897. Authorized Capital, $1,000,000 in shares of a par value of $1.00.

CANADIAN OFFICE:
John Vallance, New Denver, B.C.

Owns and is developing six claims—Roulette Mountain, Lilly, Banshee, Lucky Move, Rebound and Stuart claims, situated on the North Fork of Carpenter Creek, Slocan District, British Columbia.

ROYAL FIVE GOLD MINING CO., Limited.

Incorporated under the laws of British Columbia 1896. Authorized Capital, $1,500,000 in shares of a par value of $1.00.

Directors:

Ross Thompson, President.
Hon. D. W. Higgins, M.P.P., Vice-President
John Y. Cole, Advisory Director
John McTeer Repass, Treasurer
S. Thornton Langley, Secretary
Hon. D. M. Eberts — David B. Bogle

Head Office: Record Block, Rossland, B.C.

Owns and is developing the Royal Oak, Whoop-up, Atlas, Circassian and Gloucester mineral claims, situated three miles south of Lower Arrow Lake, on the Columbia River, 10 miles north-west of Robson, British Columbia.

ROYAL OAK MINING CO., Limited.

Incorporated in Nova Scotia 1899 with an authorized capital of $240,000 divided into 24,000 shares of a par value of $10.00.

Directors:

Robert D. Kirk, Antigonish, N.S.
John D. Copeland, Antigonish, N.S. — Charles N. Wilkie, Antigonish, N.S.

Head Office: John D. Copeland, Antigonish, N.S.

Mines Office: W. J. McIntosh, Mine Manager, Goldenville, N.S.

Owns and is working certain gold areas at Goldenville, N.S. At date of report was being equipped with a first-class mining plant.

RUBY GOLD MINING AND DEVELOPMENT CO, Limited.

Incorporated in British Columbia 1897. Authorized Capital $400,000 in shares of $1.00.

Officers:

R. Sparling, President.
G. G. Henderson, Vice-President. John Bond, Sec.-Treas.
John Highman, General Manager.

Head Office: Vernon, B.C.

Owns and is developing a group of 13 mineral claims in the Vernon Mining Division, Yale District, British Columbia.

RUTH MINES, Limited.

Registered 1897. Authorizrd Capital, £120,000 stg., in shares of £1: 111,250 shares have been issued and are fully paid, 96,000 (vendors') being issued credited as fully paid. Dividend paid in 1898 22½ per cent.

Directors:

H. W. Forster, M.P., Chairman. | Geo. Alexander, Managing Director.
Oliver Wetherell. | S. F. Prest.
H. B. Alexander, Mine Superintendent.

Head Office: J. Stewart, 2 Suffolk Lane, London, E.C., England.

Canadian Office: G. B. Alexander, Kaslo, B.C.

Mines Office: H. B. Alexander, Sandon, B.C.

Owns and operates the Ruth, Despair, Hope, Ruth Fraction and Wyoming claims, in the Slocan District, West Kootenay, Province of British Columbia. Average size of vein worked, four feet; dip 60° to 70°; average value of mineral, silver 120 ozs., lead 70 p.c.; opened by four tunnels having, at date of report, a total length of 4 000 feet; one shaft 200 feet. 80 to 100 persons employed. Output of ore in 1897, 5,000 tons; in 1898, 3,250 tons.

The mining plant comprises:—Boilers, one Monarch, and Economic, 60 h.p.; air compressor, one Ingersoll-Sergeant, five-drill; rock drills, five Ingersoll-Sergeant; hoisting engine, one Weber-Gasoline, 24 in. drums;

RUTH MINES—Continued.

other plant, one saw mill having a capacity of 20 M. per day, made by Wm. Hamilton Manufacturing Company.

At date of report a concentrating and electric lighting plant was being installed.

DIRECTORS' REPORT, 1898.

The directors' report for the year ended 30th June last, states that in the circular to the shareholders, dated the 18th February, reference was made to the ore having been cut off in two of the levels by a "slip" in the formation. Subsequent working proved that the "slip" extended nearly to the surface, and thus cut off the ore in all three of the upper levels. It is probable that it also extends downwards, and that it will be again encountered in No. 4 when that tunnel has been driven sufficiently far. In the same circular it was announced that there had been discovered beyond this "slip" a strong vein carrying both clean galena and concentrating ore. This vein was, however, cut off in its turn by another "slip," and tunnel No. 2 was driven ahead in the direction of the main strike of the vein, so as to pass through the broken or faulted ground as quickly as possible. The tunnel has now got into settled formation, and cross-cuts are being run at right angles to its course. The latest news shows that the ground looks very favorable, and the directors hope that the vein will be recovered before very long. Development work is now being actively pushed in other parts of the mine, but it was, unfortunately, brought to a standstill for two months, through the eruptions of a large volume of water in tunnel No. 2. This water, with a flow of some 75 or 80 cubic feet per minute, poured down through all the workings, and all energy was concentrated upon the work of getting the water out of the mine. As there appeared to be a prospect of securing a supply of water which would furnish power, as well as the quantity required for concentrating purposes, it was decided to postpone the erection of a plant for a few months. A grant of this water has now been obtained, and the concentrator will be erected as soon as possible, to treat the large quantity of concentrating ore which is already mined, and which will yield a large profit. It has been decided to suspend the extraction of ore from the mine, pending the erection of the concentrating plant, as the profits per ton of ore taken from the mine will be increased thereby. In the event, however, of development work opening up large bodies of clean galena, which could be cheaply mined and sent to the smelters, prior to the erection of the concentrator, ore shipments will be resumed. A new ledge has been discovered on the Aurora claim, and ore taken therefrom assayed 288 ozs. of silver to the ton. Development work is being vigorously pushed on this claim, and the

RUTH MINES—Continued.

results will be awaited with interest. It will be remembered that the property owned by this company comprises no less than 210 acres, and only a fraction of the area has been explored. The chairman has recently returned from British Columbia, where he paid several visits to the company's property, and reports that everything is working smoothly and well, and at the meeting he will be glad to furnish information on any point. During the 12 months under review, 6,074 tons of ore, carrying both silver and lead, were shipped to the smelters, and the operations of the company have resulted in a net profit of £27,934. An interim dividend of 3s. per share was paid in February last, and the directors now recommend the payment of a final dividend of 1s. 6d., making a total dividend of 4s. 6d. per share for the year. This will absorb £23,120, and leave a balance of £4,814 to be carried forward.

SAILOR CONSOLIDATED MINING & MILLING CO. OF CAMP McKINNEY, Limited.

Incorporated in British Columbia, and licensed under Ontario charter. Authorized Capital, $1,250 000, divided into 1,250,000 shares of a par value of $1.00 each.

Directors:

Sir George A. Kirkpatrick.

T. Milburn | A. L. Davis | F. Diver
T. A. Crane | J. B. McArthur | Charles B. Watts
J. A. Stevenson, M.D.

Head Office: 19 and 21 Adelaide Street, East, Toronto.

Mine Office: Camp McKinney, B.C.

Formed to purchase, take on lease or otherwise acquire in any lawful manner, mining leases or mining claims, or mining rights, or mines held as real estate, or any other mining property in any part of the Province of British Columbia or elsewhere, or any interest therein, and particularly the mining locations, the Sailor, the Diamond, the Toledo, the Snowshoe and the Belleview, all situated in the Osoyoos Division of the District of Yale, in British Columbia, and to pay for the same either in cash or fully paid up stock of the company. It also owns the Rover and Alice Fraction claims in the same district.

SAINT GEORGE MINES DEVELOPMENT CO., Limited.

Incorporated February 22nd, 1899. Authorized Capital, $150,000, in shares of $1.00 each.

Directors:

S. R. Wickett, Toronto, Ont | J. Curry, Toronto, Ont
W. Maguire, " " | T. G. Elgie, Rossland, B.C.
F. J. Mann, Toronto, Ont

Head Office: Toronto, Ont.

Formed to carry on in all its branches the operations of a mining, milling, reduction and development company.

SALMO CONSOLIDATED GOLD MINING AND DEVELOPMENT CO., Limited.

Incorporated 23rd February, 1897. Authorized Capital, $1,500,000, in shares of $1.00.

Officers:

James Chambers, President.
H. B. Campbell, Vice President. Charles Dempster, Secretary-Treasurer.

Head Office: Rossland, B.C.

Owns and is developing the White Cloud, Blue Jack, Yellow Jack, and Sitting Bull claims, located 10 miles from Salmon Siding, Nelson Mining Division of British Columbia.

SALMON RIVER AND PORCUPINE GOLD MINING CO., Limited.

Authorized Capital, $1,500,000, in shares of $1.00.

Officers:

H. A. McClure, President and Manager.
R. S. Nicholls, Vice-President. O. W. Bedford, Secretary.
John Powers, Treasurer.

Head Office: 203 Mohawk Block, Spokane, Wash.

Owns and is developing the Flossie R., Bimetallic, and King Solomon claims, 2 miles south of Ymir, B.C.

SALMON RIVER GOLD MINING CO. OF BRITISH COLUMBIA.

Incorporated under the Laws of the State of Washington, and registered in British Columbia, 25th February, 1897. Authorized Capital, $1,500,000, in shares of $1.00.

Officers:

Charles Schmidt, President, Butte, Montana.
W. R. Newport, Vice-President, Spokane, Washington.
J. C. Miller, Treasurer, Spokane, Washington.
R. S. Coe, Secretary, Spokane, Washington.
P. H. Peterson, Manager, Waneta, British Columbia.

Trustees:

Gen. Chas. S. Warren J. C. Miller Chas. Schmidt John M. Murphy
R. S. Coe George C. Howe W. R. Newport.

CANADIAN OFFICE:
Waneta, B.C.

Owns the Horn Pipe, April Fool and other claims, containing 150 acres, and situated on the Salmon River, about 28 miles east of Rossland, British Columbia.

SALMON RIVER GOLD MINING CO., Limited.

Incorporated 4th January, 1897. Authorized Capital, $1,500,000 in shares of a par value of $1.00.

Officers:

A. E. Lyford, President J. H. Good, Vice-President
Edward Cronyn, Secretary-Treasurer

Head Office: Rossland, B.C.

Owns a property comprising seven claims—the Dinner Pail, Bulla, Genevieve, Jennings' Faction, Iron Duke, Long Green and Iron Overall, situated at Hall Creek, near Nelson, B.C.

SALMON RIVER VALLEY MINING CO., Limited.

Incorporated January, 1897. Authorized Capital, $1,000,000 in shares of $1.00.

Officers:

F. Kaizer, President
A. Modigh, General Manager J. B. Stover, Vice-President
Nelson A. Burritt, Secretary-Treasurer

Head Office: Rossland, B.C.

Owns the Guttenburg mineral claim, ¼ mile south of Porcupine Creek, a tributary of the Salmon River, British Columbia.

SANTA MARIE SILVER MINING CO., Limited.

Organized under the laws of the State of Washington and registered in British Columbia 6th March, 1897. Authorized Capital, $1,000,000 in shares of a par value of $1.00.

Officers:

John Howard, President L. J. McAtee, Vice-President
C. F. Clough, Sec.-Treas.

Head Office: Spokane, Wash.

Owns and is developing the Santa Marie silver claim located near Bear Lake station, on the Kaslo & Slocan Railway, Wellington Camp, Slocan District, B.C.

SASKATCHEWAN GOLD AND PLATINUM PROPRIETORY CO., Limited.

Canadian Office: A. E. Hogue, M.E., Edmonton, N.W.T.

This company owns an area of gold dredging leases extending some 140 miles of the bed of the Sasketchewan River, and in 1898 purchased a Bucyrus dredge of large capacity, which is now operating on the leases with results said to be satisfactory to the owners.

SAW-BILL LAKE GOLD MINING CO., Limited.

Incorporated 1896. Authorized Capital, $125,000, in shares of $1

Directors:

John S. Tildon, Hamilton, Ont., President
H. A. Wiley | F. S. Wiley | H. N. Kittson | Archie Hutchinson
Frank C. Bruce | Thos. W. Lester | H. C. Beckett | Thos. Walmsley
Arthur Harvey

Head Office: H. N. Kittson, Sec.-Treas., Hamilton, Ont.

Owns and operates mining location 313X and 314X, situated on Saw-Bill Lake, an arm of the Seine River, Rainy River District, Province of Ontario. The vein worked at the surface has a width of about four feet. It strikes N. 9° E. astronomical, and can be followed in a southerly direction for 300 feet, where it bends to a direction S. 24° W. for another 300 feet, gradually failing in width until it becomes very small. In a northerly direction it has been traced about 900 feet, beyond which point the surface falls away into a swamp. The hade of the vein is easterly at an angle of a little over 10 degrees from the vertical. Though running 'with the formation' there seems to be no doubt about the true fissure character of the vein. The walls are well defined, the hanging-wall particularly so, often showing slickensided surfaces and a parting of crushed chloritic material between the wall and the vein-matter. On the foot-wall, there is a certain amount of mingling of the vein-matter with the inclosing rock, and a number of stringers and small parallel veins, so that the vein contents do not come away so freely from this wall as from the hanging-wall. Equipped with 10-stamp mill and other plant.

SCOTTISH COLONIAL GOLD FIELDS, Limited.

Registered in Edinburgh, Scotland, 12th March, 1896. Authorized Capital, £100,000 stg., in £1 shares.

Directors:

James Galloway, Jr., Chairman.
R. S. L. Hardie W. W. Slater Frank M. H. Young

Head Office: Charles H. Turnbull, S.S.C., 13 Rutland Square, Edinburgh, Scotland.

Canadian Office: G. W. Hughes, Three Forks, B.C.

This company owns, with Mr. G. W. Hughes, the Idaho Silver-Lead Mines (see notice elsewhere), situate at Twin Lake Basin, Slocan District of British Columbia.

SCOTTISH COLONIAL GOLD FIELDS—Continued.

DIRECTORS' REPORT, 1898.
(Submitted 3rd March, 1899.)

The following is excerpted from the Directors' Report for the year ended 31st December, 1898:—

While the Directors regret that the estimates furnished to them in regard to the profits to be expected from the Idaho Mines during the past year have not been realized, they are glad to inform the shareholders that the latest returns received indicate that their confidence in the value of the property has not been misplaced. In the spring of 1898 it became evident that the estimated returns were not to be relied upon, and, in view of Mr. Macpherson's return to this country on personal business, the directors considered it expedient to appoint as their manager one who had a technical knowledge of silver-lead mining. Mr. J D. Kendall was offered the appointment, which he accepted, and he at once proceeded to the mines, which were then being managed by Mr. Hughes, the owner of an interest in the Idaho, St. John, High Ore and Continental claims, during the absence in England of Mr. Macpherson, Mr. Hughes declined to accept the company's nominee as manager of the whole of the properties, and a dual management was thus constituted Mr. Kendal advised the directors that Mr. Hughes was within his legal rights, and suggested one of the three following courses:—(1) That Mr. Hughes' interests should be acquired by the company; (2) That Mr. Hughes should acquire the company's interests in those properties in which he already owned a share; or (3) The amalgamation of the properties by an exchange of interests. Mr. Kendal further advised that in the event of the third proposal being agreed on, Mr. Hughes should be appointed manager of the combined properties, and in that event he intimated his willingness to resign.

A deputation of directors accordingly proceeded to British Columbia, and, after careful investigation of the whole circumstances which had conduced to the difficulties of the situation, negotiations were entered into with Mr. Hughes. The directors are pleased to state that, as a result of these negotiations, Mr. Hughes consented to a consolidation of the properties on terms which they consider most favorable to the company, and by this arrangement all questions as to the conflicting interests of parties were satisfactorily settled.

The Directors have pleasure in acknowledging the services of the members of the Board, who successfully carried through a transaction which required careful and delicate handling.

Since the consolidation, Mr. Hughes has acted as Manager, and has given evidence of his fitness for the post, both by the substantial and satisfactory returns he has made, and by the amount of development work he has carried out. Towards the end of December a snow-slide carried away a

SCOTTISH COLONIAL GOLD FIELDS—Continued.

section of the tramway, which temporarily suspended the shipment of ore, but later advices report that shipping has been resumed. By the erection of an aerial tramway, which is at present contemplated, all difficulties in this direction would be obviated, and the cost of handling the ore would be materially lessened. During last year the concentrator has been altered and improved, new ore-bins and additional camp buildings have been erected, and large sums have been expended on developments and permanent improvements, which have been paid out of revenue. The properties, which now extend to 554.25 acres, are highly mineralized, and the Idaho Mine at present holds the position of the second largest producer in the Slocan District.

The names and measurements of the claims are as follows :—

Idaho	50.24 acres.
St. John	51.29 "
Cumberland	32.74 "
Alamo	33.12 "
Ivy Leaf	7.33 "
Twin Lakes	36.23 "
Continental	12.13 "
Edinburgh (formerly the Morning)	35.00 "
Clarence	25.17 "
Victory	14.50 "
Daisy	32.74 "
Eastern	24.40 "
Hampton	19.46 "
Thistle	8.00 "
High Ore	8.00 "
Tramway, Cedar, Current, Detroit	150.00 "
Total acreage	540.35

NOTE.—In addition, the Mazeppa claim (13.90 acres), adjoining the Idaho, has been recently purchased, as, in the course of developments, Mr. Hughes discovered that one of the veins of ore was running in the direction of that claim, and would in all probability pass into it.

The recent satisfactory returns more than justify the expenditure on the properties, to the future success of which the Directors look forward with entire confidence.

ACCOUNTS.

The British Columbian books were closed on 30th September, when the consolidation of the properties took place, and the Company's auditors in Edinburgh have considered it incorrect to treat as profit the remittances received from British Columbia since Mr. Stein's audit. Accordingly, the sum of £4,272 5s. 6d., which has come to hand since that date, does not appear in the Profit and Loss Account, the balance at the credit of which is £201 18s. 2d.

As will be seen from the balance sheet, the contingent liability for calls on shares held in other companies has been lessened by £6,701 5s.

SCOTTISH CORPORATION OF BRITISH COLUMBIA, Limited.

Registered in Edinburgh, March, 1898. Authorized Capital, £100,000, in shares of £1.

Head Office: 25 Dublin Street, Edinburgh, Scotland.

Canadian Office: J. L. M. Fraser, C. & M.E., Rossland, B.C.

Formed to carry on a financial, mining and exploring business in British Columbia, the North-West Territory and elsewhere. The company acquired nine gold-bearing properties in British Columbia, known as the Queen Victoria group, comprising five claims of 250 acres, situated about ten miles from Rossland; the Piza and Forenza, comprising two fractional claims, about 60 acres, a mile east of Rossland: the Rabbitt's Nest, situated in the Trail Creek Mining District, and the Ram's Horn, about 50 acres, four miles north of Rossland. The purchase consideration was £40,000, payable in cash or fully paid shares, at the option of the directors.

SCRAMBLE GOLD MINING CO. OF ONTARIO, Limited.

Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

L. W. Partridge, President.

E. H. Bothwell, Vice-President. Thos. Milburn, Sec.-Treas.

Directors:

Angus Kirkland, Toronto	R. J. Thompson, Buffalo, N.Y.
Thomas Milburn, "	L. W. Partridge, Detroit, Mich.
Douglas Pouter, "	E. D. Williamson, " "

E. H. Bothwell, Montreal.

Head Office: Thomas Milburn, Sec.-Treas., Toronto.

Mines Office: Rat Portage, Ont.

Owns and is working the Scramble Mine, located five miles east of Rat Portage, Lake of the Woods Mining District, Ontario Opened by 3 shafts, down at date of report, 84 ft., 50 ft. and 18 ft.; drifts, 22 ft.; crosscuts, 76 ft. and 22 ft.

SEINE RIVER (Ontario) GOLD MINES, Limited.

Incorporated 22nd July, 1896. Authorized Capital, £100,000, in shares of £1; 80,343 shares have been issued, 60,000 (vendor's) being issued credited as fully paid, and 20,343 having 15s. per share called up.

Directors:

Lieut.-Col. Sydney F. Foster.

Jas Juman — Richard Pearce — A. Galt Ross — Lt.-Col. Swaine

CANADIAN OFFICE:
Ferguson Mine, via Mine Centre, Rainy River District, Ontario.

Head Office: W. M. Murdock Secretary, 62 Broad St. Ave, London, E.C.

Owns and operates Mining Location A. L. 110, 111, and K 223, comprising 40 acres each, in the Rainy River District, Province of Ontario. The purchase consideration was £60,000 paid in fully paid shares. The company was promoted by the Ontario Exploration Company, Limited.

SEINE RIVER SYNDICATE, Limited.

Office: 180 Hope St., Glasgow, Scotland.

Registered 24th February, 1898, with an authorized Capital of £10,000, in shares of £1. To acquire and deal with mines and mining rights in Ontario and elsewhere.

SELKIRK MINING AND MILLING CO., Limited.

Incorporated in British Columbia 25th January, 1897. Authorized Capital, $250,000, in shares of a par value of 25 cents.

Directors:

Thomas Brown — M. L. Grimmett — G. H. Wright — J. A. Smith
Alex. Crawford — W. W. Fallows.

Head Office: W. W. Fallows, Secretary, Sandon, B.C.

Owns the Gracie Group comprising four claims, located 1½ miles southwest of Sandon, and one claim situated at New Denver, British Columbia. Opened by shaft 50 feet and one tunnel, in at date of report, 476 feet.

SELKIRK MOTHER LODE COPPER MINES, Limited.

Registered in British Columbia, 9th July, 1898. Authorized Capital, £25,000, in 25,000 shares of £1.

Head Office: 20 Bucklersbury, London, England.

CANADIAN OFFICE:
Nelson, B.C.: H. Broughton Thompson, Attorney.

Formed to acquire and work mines and mineral claims in British Columbia. It is working on the J. K., Glenora, Hilda, Golden Chief and Ragland, all apparently on the same lead, running S. 65° E., a lead some 50 feet across where measurable, and seeming to be at the contact of a large igneous dyke with the quartzites, etc., of country rock. In places the quartz is heavily mineralized with arsenical iron and copper and iron pyrites. The work done to date is in the nature of assessment to cover all the claims. the purpose being to later develop the most promising.

The tunnel in the Golden Chief is on the outcrop of the lead and in some 20 feet. A shaft has been started on the Hilda and was down 10 feet, the intention being to continue it until it cut across the lead. Work on the Glenora (elevation 7,550 feet) consists of a 20-foot tunnel on the outcrop, and was similar to that in the Golden Chief, and the J.K., (elevation 7,830 feet), showed strong mineralization in an inclined shaft started on the quartz lead and down some ten feet.

SENECA GOLD, COPPER & NICKEL NINING CO., Limited.

Authorized Capital, $999,000, in shares of a par value of $1.00.

Directors:

G. L. Ackerman, President.
G. W. McCaslin. James Preston. J. P. Ackerman.
D. A. Holeman.

Head Office: J. P. Ackerman, Secretary, Titusville, Pa.

Mines Office: Wa Wa City, Michipicoten, Ont.

Owns and is developing three mining locations, comprising 52 acres, and situated about 2½ miles south-east of Wa Wa City, Michipicoten District, Province of Ontario.

SHEBA GOLD MINING AND DEVELOPMENT CO. OF ONTARIO, Limited.

Incorporated 1897. Authorized Capital, $495,000, in shares of $1.00 each.

Directors:

J. A. Gendron, Toronto, Ont	A. E. Blagdon, Toronto, Ont
L. V. Dusseau, " "	P. A. Bogue, London, Ont
C. R. de la Sabliere, Toronto, Ont	L. C. Bachaud, Coaticook, Que.
W. T. Lee, " "	S. Connolly, Spencer Cove, Que.
L. V. Bachaud, " "	J. I. Bogue, Montreal, Que.

Formed to carry on in all its branches the operations of a mining, milling, reduction and development company.

SILVER BELL CONSOLIDATED MINING CO., Limited.

Incorporated in British Columbia, 12th October, 1898. Authorized Capital, $500,000, divided into 2,000,000 shares of a par value of 25 cents.

Directors:

W. Thoburn R. G. Hector J. A. Currie. Hiram Kiteley

Head Office: Hiram Kiteley, Secretary, 52 Yonge Street, Toronto.

Mines Office: A. R. Macdonald, Box 865, Rossland, B.C.

SILVER HUSTLER MINING CO., Limited.

Incorporated March, 1897. Authorized Capital, $300,000 in shares of a par value of 25 cents.

Officers:

John Bryden, M.P.P., President
Moses McGregor, Vice-President Robert A. Swinerton, Sec.-Treas.
Duncan R. Irvine, M.E., Manager

Head Office: 106 Government Street, Victoria, B.C.

Owns and is developing the Silver Bell and Hustler claims on Idaho Basin, Slocan District, B.C.

SILVER QUEEN MINING CO., Limited.

Incorporated 24th March 1897. Authorized Capital, $1,250,000 in shares of $1.00.

Officers:

Hon. George E. Foster, M.P., President
C. C. Woodhouse, Jr., Vice-President Leo. H. Schmit, Sec.-Treas.
Edward C. Finch, Manager

Head Office: Edward C. Finch, Rossland, B.C.

Owns and is developing the Maxwell group, comprising eight claims near Burton City, British Columbia. Equipped with Rand five-drill compressor and other plant.

SILVER STAR MINING CO., Limited

Incorporated 27th November, 1896. Authorized Capital, $400,000 in shares of $1.00.

Officers:

Cornelius O'Keefe, President
A. J. McMullen, Vice-President A. G. Fuller, Sec.-Treas.

Head Office: A. G. Fuller, Sec.-Treas., Vernon, B.C.

Owns the Silver Queen Mine, located on B.H. Mountain, Yale District, British Columbia.

THE SIMCOE PEAT FUEL CO., Limited.

Incorporated March 16th, 1899. Authorized Capital, $20,000 in shares of $100 each.

Directors:

A. Hay, President, Barrie, Ont.
W. Reiner, Barrie, Ont. D. H. MacLaren, Barrie, Ont.

Head Office: W. A. Boys, Secretary, Barrie, Ont.

Formed to carry on in all their branches the operations of a mining, milling, reduction and development company. Owns 50 acres of peat land a mile west of the town of Barrie, and at date of report was installing machinery for the manufacture of peat fuel.

SIRDAR GOLD MINING CO., Limited.

Incorporated 3rd July, 1899. Authorized Capital, $1,000,000, in shares of $1.

Directors :

Wm. F. Cowan, Oshawa, Ont
F. Wyld, Toronto
J. K. Kerr, Toronto
T. Walmsley, Toronto
E. W. B. Snider, St. Jacob's, Ont.
John Flett, Toronto
Alexander A. Allan, Toronto
Jas. Carruthers, Toronto
J. T. Moore, Toronto
J. D. Moore, Galt, Ont

Head Office : Toronto, Ont.

Formed to carry on in all their branches the operations of a mining, milling, reduction and development company.

SKEENA RIVER MINING CO., Limited.

Incorporated 6th March, 1897. Authorized Capital, $1,000,000, in shares of $1.00.

Head Office : C. W. D. Clifford, M.P.P., Victoria, B.C.

Owns and is developing the Emma, I.X.L. and Bootjack claims, on the Skeena River, Skeena Mining Division, British Columbia. The company has driven a tunnel 165 feet and sunk a shaft 45 feet.

SLOCAN BELLE MINING AND MILLING CO., Limited.

Incorporated 20th March, 1897. Authorized Capital, $300,000, in shares of a par value of 25 cents.

Officers :

Thomas McCausland, President.
James Cunningham, Secretary. E. M. Murphy, Manager.

Mine Office : E. M. Murphy, Kaslo, B.C.

Owns and is developing the Slocan Belle mineral claim, 4 miles from McGuigan, Slocan District, B.C.

SLOCAN-CARIBOO MINING AND DEVELOPMENT CO., Limited.

Incorporated in British Columbia, 22nd March, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

James L. Hughes, Toronto, President.
Charles T. Lyon, Toronto, 1st Vice-President.
Ewen Morrison, M.E., Sandon, B.C., 2nd Vice-President.
Fred'k. S. Pope, Secretary and Eastern Manager.
Ewen Morrison, M.E., Sandon, B.C., Western Manager.

Head Office: Corner Toronto and Adelaide Streets, Toronto.

Mines Office: Sandon, B.C.

Owns and is developing the Evening Star, Keystone and Cariboo Fraction mineral claims, located on the North Fork of Carpenter Creek, Slocan District, British Columbia.

SLOCAN CITY MINING CO., Limited.

Authorized Capital, $250,000, in shares of a par value of $1.00.

Officers:

Hugh Sutherland, President.
James Cran, Vice-President. F. S. Andrews, Sec.-Treas.

Office: Slocan City, B.C.

Owns and is developing the Silver Nugget group, comprising 2 claims, on 8 Mile Creek, Slocan District, B.C.

SLOCAN GOLD AND SILVER MINING CO., Limited.

Authorized Capital, $1,000,000 in shares of $1.00.

Officers:

A. N. Shaw, President
Henry McKay, Vice-President Dr. R. J. Campeell, Treasurer
Fletcher S. Andrews, Secretary

Office: Slocan City, B.C.

SLOCAN GOLD AND SILVER MINING CO.—Continued.

Owns and is developing the following properties in British Columbia:—Group No. 1—Two-third interest in Evening Star No. 1, Denbeigh and Skylight, and one-third interest in Ruby May, situated on north fork of Lemon Creek, eight miles east of Slocan City.

Group No. 2—Two-third interest in Lucky Jack, Trilby and Dido, situated on south fork of Lemon Creek, four miles east of Slocan City.

Group No. 3—Quarter interest in North Exchange, Pay Roll and Quarter Fraction, situated on Dayton Creek, four miles east of Slocan City. A tunnel is being driven to tap the ledge at 90 feet depth.

Two-thirds interest in Rover, situated on Ten-Mile Creek, north of Enterprise mine.

Three-fourths interest in Madge, on a branch of Kaslo Creek.

Three-fourths interest in Smualda, on Dayton Creek, 3½ miles from Slocan City, adjoining the North Exchange; a tunnel is being driven on this property.

SLOCAN LIBERTY HILL MINING CO., Limited.

Re-registered in British Columbia 3rd January, 1898. Authorized Capital, $1,200,000, in shares of $1.00.

Office: Benjamin R. Briggs, Kaslo, B.C.

Owns and is developing the Mastedon and Liberty mineral claims, located on the south fork of Kaslo Creek, Slocan District, British Columbia.

SLOCAN MONITOR MINING CO., Limited.

Incorporated under the laws of the State of Washington and registered in British Columbia 9th March, 1897. Authorized Capital, $1,000,000 in shares of a par value of $1.00.

Officers:

C. B. Foote, President and General Manager, Sandon, B.C.
John B. Hess, Spokane, Wash., Vice-President.
J. Melvin Thomas, Secretary.
A. D. Campbell, Spokane, Wash., Treasurer.

Trustees:

C. B. Foote.
John B. Hess. J. A. Griffith.
J. Melvin Thomas. A. D. Campbell.

SLOCAN MONITOR MINING CO.—Continued.

Head Office: Rooms 301-302 Fernwell Building, Spokane, Wash.

Canadian Office: Sandon, B.C.

Owns and is developing the Monitor and Hustler Fraction claims, located on the south side of Payne Mountain, two miles from Sandon, Slocan District, British Columbia.

SLOCAN QUEEN MINING AND MILLING CO., Limited.

Registered in British Columbia, 3rd January, 1898. Authorized Capital, $1,000,000, in shares of $1.00.

Office: Brinsley M. Walton, Sandon, B.C.

Owns and is developing the Semaphore, Plucky Hornet and Snow Bird claims on Sandon Creek, 1¼ miles south of Sandon, Slocan District, British Columbia.

SLOCAN RECIPROCITY MINING CO., Limited.

Registered in British Columbia, 7th May, 1897. Authorized Capital, $1,000,000, in shares of $1.00.

Head Office: Spokane, Wash.

Canadian Office: J. A. Whittier, Kaslo, B.C.

Owns and is developing the Reciprocity and Lillian mineral claims, located on Payne Mountain, 3½ miles from Sandon, British Columbia.

SMUGGLER GOLD MINING AND MILLING CO., Limited.

Incorporated 1897. Authorized Capital, $1,000,000, in shares of $1.00: increased by the issue of an additional 200,000 shares of $1.00, in 1899.

Head Office: A. R. McInnes, Sec.-Treas., 9 Toronto St., Toronto.

SMUGGLER GOLD MINING AND MILLING CO.—Continued.

Mines Office: Fairview, B.C.

Owns and is developing the Smuggler group of mineral claims, at Fairview, British Columbia.

Development work on the property consists of a shaft down 200 feet that intersects a tunnel 369 feet long, at a point 290 feet on its course. A block of ground 25 x 20 x 6 has been stoped out from above the 50 foot level. From the 100 foot level a drift has been run 39 feet to the north-west, a drift has also been run 18 feet to the south-east. The main tunnel that the shaft intersects is driven from the east towards the west. At 252 feet there is a raise of 15 feet; at 285 feet a drift has been run from it 99 feet to the south-east, from this drift a cross-cut has been run 7 feet to the east, and 12 feet to the west. At 290 feet opposite the shaft a drift has been run 72½ feet to the north-west, and from this drift a cross-cut has been driven 12 feet to the west, and 10 feet to the east. Equipped with 20 stamp battery ond other machinery.

SOUTHERN CROSS AND WOLVERINE CONSOLIDATED GOLD MINING CO., Limited.

Authorized Capital, $500,000, in $1.00 shares.

Office: D. B. Boyce, Sec.-Treas., Rossland, B.C.

Owns the Southern Cross, Wolverine No. II and Iron Hill, situated on the north slope of Lake Mountain, 2½ miles south-east of Rossland, British Columbia.

SOVEREIGN GOLD MINING AND DEVELOPMENT CORPORATION OF ONTARIO, Limited.

Incorporated March 3rd, 1897. Authorized Capital, $2,500,000, in shares of $1.00 each.

Directors:

A. E. Jones, London, Eng.
F. Phillips, Toronto, Ont.
J. F. Latimer, "
J. S. Dignam, Toronto, Ont.
O. R. Sprague, "
Henry Jones, Niagara Falls, N Y.

Formed to carry on in all their branches the business of a mining, milling, reduction and development company.

SPRATT COPPER AND GOLD CO., Limited.

Registered in British Columbia, 7th April, 1897. Authorized Capital $1,000,000.

Head Office: Seattle, Wash.

The company owns and is developing the Raven mineral claim, on Texada Island, Nanaimo Mining Division of British Columbia. At date of report had sunk a shaft to a depth of 100 feet.

STANDARD GOLD MINES OF B.C., Limited.

Registered in British Columbia, 16th September, 1898. Authorized Capital, $1,500,000, in shares of a par value of $1.00.

Head Office: Rossland, B. C.

STANDARD GOLD MINING AND DEVELOPMENT CO. OF MINNEAPOLIS.

Incorporated 1897. Authorized Capital, $250,000.

Officers:

John Watson, President.

J. F. Whallon, Treasurer. James C. Beebe, Secretary.

Head Office: 26 Chamber of Commerce Bdg., Minneapolis.

Mines Office: Mine Centre, Ont.

Owns and is developing Mining Location P. 656, known as the Emperor Mine, Lower Seine River District, Ontario.

STANDARD MICA AND EXPLORATION CO., Limited.

Office: 35 Lombard St., London, E.C.

This company was registered on 4th December, 1897, to adopt an agreement with the General Securities Corporation, Limited, for the purchase of certain mining properties in the Province of Quebec. The authorized capital is £10,000 in shares of £1.

ST. ANTHONY'S EXPLORATION CO., Limited.

Incorporated in British Columbia, 1st October, 1898. Authorized Capital, $40,000, in shares of a par value of $1.00.

Head Office: Vancouver.

Formed to acquire and work mines or mineral claims in British Columbia.

STAR EXPLORING AND MINING CO., Limited.

Incorporated 1896. Authorized Capital, $50,000, in shares of $1.00.

Directors:

George W. Bement, Louis Duenweg, Carl Stahl, A. Schember, Lawrence Heinl, J. Meinecke

Head Office: Julius Meinecke, Secretary, Terre Haute, Ind.

Canadian Office: Victoria, B.C.

Owns and is developing the Star group of mineral claims, in the Yale Mining District, British Columbia, situate about 23 m. N. E. of the town of Hope. The property shows two veins, one averaging about 4 ft; assays of surface ore showing from 20 per cent. to 70 per cent. lead, 25 to 115 oz. silver, about 3 per cent. copper, and from 80c. to $2.00 in gold. Claim being opened by a small force, a tunnel having been driven in, at date of report, 65 ft.

STAR MINING CO., Limited.

Authorized Capital, $5,000, in shares of a par value of $1.00. Dividends paid in 1897, 15 per cent.; in 1898, 10 per cent.

Officers:

W. H. Sheppard, President.
J. T. MacLaren, Vice-President. A. C. Rutherford, Secretary-Treasurer.

Directors:

A. McLean, W. J. Jackson, W. H. Sheppard, H. Wilson, J. T. MacLaren, A. C. Rutherford.

Head Office: South Edmonton, N.W.T.

STAR MINING CO.—Continued.

Owns and is successfully working 10 dredging claims on the North Saskatchewan River, near South Edmonton, N.W.T. The dredge is equipped with a twelve horse-power engine and is capable of raising gravel from a depth of about ten feet. Three men and a boy were employed in 1898 and the returns were stated to amount to from $25 to $40 worth of gold per diem. The gravel is said to average about 40 cents worth of gold to the cubic yard, without the very fine gold, which is known to be lost because of the comparatively imperfect construction of this small dredge.

STELLARTON GOLD MINING CO., Limited.

Incorporated 1894. Authorized Capital, $20,000, in shares of $10.00.

Directors:

John McQuarrie, Stellarton, N.S.
James Keith, New Glasgow | W. Ormond, Thorburn, N.S.
Duncan McGregor, Westville, N.S. | John G. McQuarrie, Sherbrooke, N.S.

Head Office: Geo. E. Macdonald, Secretary, New Glasgow.
John McQuarrie, Stellarton, Man. Director.

Formed for the purpose of mining in the Sherbrooke District, Province of Nova Scotia. Property contains 36 gold areas. 15 stamp mill. Returns for seven months in 1895, gave 946 oz. 6 dwt. from 1,930 tons rock crushed: and 5 months' work in 1896, 105 oz. 5 dwt. 9 grs. from 343 tons rock milled; 1897, (9 months) 823 oz. 19 dwt. 19 grs. from 1,546 tons rock milled.

ST. EUGENE GROUP.

Owners:

John A. Finch Timothy E. Cronin
Of Spokane, Wash

CANADIAN OFFICE:
Moyie, East Kootenay, B.C.

This group comprising the St. Eugene and Peter claims, is situated on Moyie Lake, East Kootenay, B.C. The Mines Report, 1898, says:—

"On the surface, the lead had been traced by various openings for pretty well the entire length of the properties, proving its continuity. The underground development has, however, been so extensive and successful that the surface indications are not of such relative importance. I shall not notice them further than to say that at various points above the present upper

ST. EUGENE GROUP—Continued.

tunnel, for a distance of 600 feet, the lead has been exposed, and galena ore, almost solid, has been uncovered of a width at the surface of from 2 to 5 feet.

Development.—No. 1 shaft was sunk on the vein to a depth of 57 feet, in ore of the width of the shaft all the way, to the level of No. 1 tunnel. No. 1 tunnel, 5 by 7 feet was run in on the lead for a distance of from 175 to 200 feet, gaining a depth at the face of about 150 feet, and seems to have been in pretty nearly solid ore of the width of the tunnel for the whole distance, the walls being fairly well defined.

No. 2. Shaft was sunk about 30 feet to the west from the mouth of No. 1 tunnel, starting from that level and sunk on the lead, and is said to have been in solid ore for a depth of 50 feet, at which depth the solid ore ceased and the vein was only partially mineralized. This shaft has now been connected through to No. 2 tunnel, a vertical depth of 120 feet.

No 2 Tunnel.—A cross-cut was driven about 100 feet, and cut the vein at a vertical depth of 120 feet below the No. 1 tunnel. The lead was found to be only slightly mineralized here, and not such as was in the upper tunnel. From this point the tunnel was driven on or on the side of the vein, which continued to show only slight values till a point, some distance to the east of No. 2 shaft, and about 400 feet in, was reached, where the solid ore was again struck. After striking the ore the work had been continued some 250 feet, at the time I saw it in June, and had carried ore for the width of the tunnel all the way in to its face. In this tunnel a couple of small igneous dykes have cut across the lead, but do not appear to have been accompanied by faulting to any extent. At the time of my visit there was a dyke cutting across the face which had not yet been cut through, but from past experiences and surface indications was not creating any anxiety in the minds of the management.

From the development made it would appear that there is an ore chute outcropping on the surface from No. 2 shaft for a distance of 600 feet to the east, so far as yet known ; and that such ore chute has a dip of about 45° to the east—*i.e.*, into the hill. This ore chute has a width of from 3 to 6 feet, safely averaged at 4 feet, and while it contains a considerable percentage of absolutely solid galena, it is partly made up of ore that should be concentrated. The best class of ore is stated by the management to assay 70 per cent. lead and about 50 oz. of silver to the ton. The surface openings show up two other leads of similar character, with from 6 to 24 inches of galena, which may be parallel leads or only spurs from the main lead ; sufficient development not having been done on them to determine which.

Since my visit I am informed that a waggon road has been built from the mine to Moyie, and that shipments of first class ore will be made this year. Should the development continue satisfactorily, a concentrator will be erected on the lake shore and connected with the mine by tramway."

ST. KEVERNE MINING CO., Limited.

Registered in British Columbia, March, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

Jno. A. Finch, President. Sidney Norman, Secretary.

Directors:

Jno. A. Finch. H. K. Galusha. Sidney Norman
George H. Aylard. P. J. Hickey.

Head Office: Sydney Norman, Spokane, Wash.

CANADIAN OFFICE:
Sandon, B.C.

Owns and is developing Six Fractional claims, comprising about 100 acres, on Payne Mountain, Slocan Mining Division of British Columbia. About $6,000 expended on preliminary work upon the property, but at date of report, operations were to be resumed on a larger scale.

STRATHROY PETROLEUM CO., Limited.

Incorporated 1894. Authorized Capital, $90,000, in shares of $100.

Directors:

Dr. W. B. Lindsay, President.
W. A. Armstrong Chas. Grist.

Head Office: W. A. Armstrong, Secretary-Treasurer, Strathroy, Ont.

Owns and operates about 100 oil wells, averaging in depth about 500 feet, in the Petrolia District, Lambton County, Ontario. Small force employed.

SUDBURY COPPER AND NICKEL CO., Limited.

Incorporated 3rd May, 1899. Authorized Capital, $2,000,000, in shares of $1.00.

Directors:

F. B. Chapin, Sudbury, Ont | F. Cochrane, Sudbury, Ont.
Wm. McVittie, Sudbury, Ont. | R. W. Leonard, Montreal
R. C. LeVesconte, Toronto.

Head Office: Sudbury, Ont.

Formed to carry on in all its branches the operations of a mining, milling, reduction and development company.

SULLIVAN GROUP MINING CO., Limited.

Registered in British Columbia, 1st March, 1897. Authorized Capital, $2,500,000 in shares of a par value of $1.00.

Head Office: Spokane, Wash.

CANADIAN OFFICE:
Fort Steele, B.C.

Owns the Sullivan Group of mineral claims, located on the north east of Mark Creek, on what is known as Sullivan Hill, Forte Steele District, in East Kootenay, British Columbia.

SULTANA GOLD MINE.

(At date of going to press reported sold to an English Syndicate.)

Owner and Manager:
John F. Caldwell, Winnipeg.

Mines Office: Sultana Mine, via Rat Portage, Ont.

The Sultana Mine, known as location 42X, is situated on Sultana Island on the north shore of the Lake of the Woods. Prospecting was commenced by the present owner in 1890, but mining was not begun until March, 1892.

The ore bodies appear to be lenticular, the lower one of immense size, and are enclosed in the sheared and schistose edge of an area of coarse porphyritic granitoid gneiss, mapped by the Geological Survey as Laurentian, but adjoining green Huronian rocks. The ore is somewhat quartzitic looking, contains one or two per cent. of iron pyrites, and is free milling to the extent of 75 or 80 per cent. Of this deposit the Mines Report for Ontario, 1897, says:—

"The Sultana has the largest body of quartz in sight of any of the mines in Western Ontario. The main body lies on the south side of the shaft; on the north side it is rather narrow. At the widest known place, which is at the end of the south drift in the third level, it is 66 ft.; but a portion of this, about 20 ft. near the west wall, is low-grade and will probably not be treated. The vein is nearly solid quartz, only a little country rock showing in places. At the end of the south drift in the second level it measured 21 feet, and neither wall had been reached. At the end of the south drift in the fourth level it measured 32 feet, and only the hanging wall is exposed."

SULTANA GOLD MINE—Continued.

The mining plant at date comprises:—Three 100 h.p. boilers, Rand compressor, six Rand drills, Bacon hoisting engine, 5 ft. drums (double) four steam pumps (Blake, Snow, and Cameron), one Gates No. III. rock breaker, and electric lighting plant. The mill contains a battery of 30 stamps, weight 900 lbs., dropping from 85 to 90 per minute, and is equipped with six improved Frue vanners and a cyanide plant.

SULTANA GOLD MINING COMPANY OF BRITISH COLUMBIA, Limited.

Incorporated 5th December, 1896. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

Dr. Edward Bowes, President.
Henry Ward, Q.C., Vice-President. John S. Clute, Jr., Treasurer.
W. J. Nelson, Secretary.

Head Office: Ritchie Bdg., Rossland, B.C.

Mine Office: H. V. N. Stevenson, Trail, B.C.

Owns and is developing the Sultana mineral claim on Lookout Mountain, near Trail, British Columbia.

SUMMIT GOLD AND COPPER MINING CO., Limited.

Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Directors:

A. W. Ross Wm. C. Fox E. S. Beer S. L. Graham
W. C. McDougall

Head Office: W. C. McDougall, Columbia, B.C.

Owns and is developing a group of claims comprising:—Main, Toledo, Delta and Vanguard, in Summit Camp, Boundary District; Athol No. 1 and Murphy, in Wellington Camp, Boundary District; and the Canada and Swan on Sophia Mountain, Rossland District, British Columbia.

SUNSET GOLD AND SILVER MINING CO., Limited.

Registered in British Columbia, 8th June, 1897. Authorized Capital, $250,000, in shares of $1.00.

Head Office: J. M. Dunn, Sec.-Treas., 624 Guarantee Loan Building, Minneapolis, Minn.

Canadian Office: R. E. Lemon, Manager, Nelson, B.C.

Owns and is developing the Sunset claim, located 2 miles from Whitewater Station, K. & S. R'y., Slocan District, British Columbia.

SUNSHINE, Limited.

Registered 3rd May, 1897. Authorized Capital, £300,000, in 50,000 preference shares of £1 each, and 250,000 ordinary shares of £1 each: 25,000 preference and 215,000 ordinary shares have been issued and are fully paid; 17,927 preference and 214,993 ordinary shares being issued (vendors') credited as fully paid.

Directors:

J. Horne-Payne, Q.C., Chairman.

F. S. Barnard.	J. Dunn.	W. Farrell.
R. Horne-Payne.	R. Northall-Lawrie.	Forbes G. Vernon.

Head Office: Francis Williams, Secretary, 51 Billiter Buildings, Billiter Street, London, E.C.

Formed to carry into effect an agreement dated 29th April, 1897, between the Lillooet Fraser River and Cariboo Gold Fields, Limited, of the first part, W. Farrell and T. Dunn, of the second part, and E. A. Bennett, as trustee for this company, of the third part, and to acquire the mining claims known as Silver Cup, Sunshine and Towser, situate in the Kootenay District of British Columbia. The purchase consideration was £232,920, payable in 17,927 fully paid preference shares and 214,993 fully paid ordinary shares.

DIRECTORS' REPORT.

(*Presented 2nd December*, 1898).

The Directors of the Sunshine, Limited, herewith beg to submit their First Annual Report and Balance Sheet to 31st July, 1898, which covers a period of 15 months from the date of the incorporation of the Company.

It will be seen that the revenue accounts show a profit balance of £673 9s.

SUNSHINE—Continued.

This profit is over and above the whole cost of mining for 15 months, including all cost of the development of the mine, none of which has been charged to capital, and is substantially the result of 8 months' production, ending on April 28th, 1898. At this date the Board, for reasons mentioned below, determined temporarily to confine themselves to pure development, leaving all ore in place, pending the completion of the new tunnel. There would, otherwise, have been no difficulty in producing during the last three months, ore, the clear profit of which would have been ample to pay the 10 per cent. dividend on the preference shares issued.

Your Board has entered into a provisional agreement with the Lillooet Company (terminable on six months' notice), by which the Lillooet Company agreed, in consideration of a payment of £1,000 a year, to place at the disposal of your Company, the use of their offices, the services of their officials and clerical staff in such offices, and generally all such services and conveniences reasonably necessary or incidental to the administrative, as distinct from the mining business of the Company.

Mr. Horne-Payne, Q.C., as the representative of the Board, visited British Columbia, and having secured the assistance of Mr. W. F. Robertson, an efficient expert with the highest recommendations, visited the Sunshine group early in September, 1897.

At the date of their visit the works on the Silver Cup claim consisted of one straight cross-cut tunnel 350 feet long, interesected at right angles by two drifts, viz.:—

(a) The drift called Silver Cup drift east and west, made at a point in the tunnel close to its extreme end, *i.e.*, 340 to 350 feet from the entrance of the tunnel.

(b) The Big Vein Drift, parallel to the last, made at a point, say about 300 feet from the entrance of the tunnel.

And an inclined shaft rising to the surface 173 feet in vertical height from close to the point of intersection of the tunnel and Silver Cup drift.

The tunnel and the shaft were made by the company's predecessors, who had discovered the ore body in the Silver Cup drift, which they had driven 43 feet on the east side.

Mr. McNeil was appointed mine manager at the end of July, 1897. During the month of August he discovered signs of metalliferous ore in the tunnel between the entrance and the Silver Cup vein, and commenced the drift which has been named the "Big Vein Drift." This has so far turned out the richer vein.

On the 25th November, 1897, the Big Vein drift had been driven east 154 feet, and west 87 feet, and the Silver Cup vein 141 feet east and 66 feet west.

SUNSHINE—Continued.

At the time of Mr. Horne-Payne's visit the output of the mine was about 1½ tons of picked ore per day, averaging over ½ oz. gold and 200 ozs. of silver to the ton, with about 40 per cent. of lead. But on September 11th rich ore had been tapped in the Big Vein No. 5 drift east, 75 feet; and from that time the daily output became about two tons, increasing to three and even four tons of picked ore besides about an equal amount of concentrating ore, averinging about 46 ounces of silver to a ton.

The total amount of shipping ore produced before August, 1897, was about 63¼ tons, exclusive of some 19 or 20 tons shipped and realised by the previous owners.

The following table shows the monthly production of first-class shipping ore, the shipment, net smelter returns and rate of returns per ton :—

Ore First-class Shipping Produced and Sacked.			Ore Shipped		*Net Smelter Returns.	Rate per Ton.
1897.	Tons.	Lbs.	Tons.	Lbs.		
Before McNeils's time.	63	510				
August ..... }						
September..... }	54	1,197				
October.....	60	1,140				
November	75					
December.....	94					
1898.						
January.....	102	650	127	1,696	$13,583 62	$106 12
February.....	110	1,046				
March.....	135	50				
April, to 28th.....	117	1,000				
May.....	nil.					
June.....	nil.		345	1,560	$35,983 89	104 00
July.....	nil.		{ 82	580	8,472 03	102 00
			{ 39	650	3,849 92	97 09
August.....	nil.		55	899	6,245 11	111 07
	812	1,593	650	1,385	$68,134 57	

Net smelting returns, $68,134.57 = at 4.85, £14,048 7 1.

Balance to market, August 2nd, 162 tons 208 lbs. Fifth April, 1898, ore in sight 500 tons.

NOTE — Net smelter returns means net cash returns, after deducting freight from Thompson's Landing, U.S. duty on lead, treatment, etc.

This 812 tons referred to in the last paragraph is exclusive of about 700 tons of concentrating ore on the dump. Value of latter about $27 per ton at mine.

SUNSHINE—Continued.

149 tons, part of the 162 (balance to market), are sacked at the mine awaiting shipment as soon as the return of the snow allows it to be freighted at lower winter rates.

About the middle of November, 1897, a winze was driven at a point in the Big Vein drift about 50 feet from its intersection with the tunnel, and drifts made at a depth in the winze at about 50 feet, which were respectively numbered 7 and 8. A considerable amount of first-class ore was found and was being extracted continuously until about the end of April, by which time the accumulation of water through the thawing of the ice and snow made further work impractible. The roads at that time of the year were from the same cause also impracticable for heavy traffic.

Mr. McNeil was of opinion that it was very probable the ore body would increase in bulk with increased depth, and advised a tunnel to be driven at a level about 100 feet below the existing tunnel for the purpose not only of draining the Nos. 7 and 8 drifts and enabling them to be extended, but still more for the purpose of systematic exploration and ascertaining the bulk and depth of the ore body reached, and incidentally possibly striking new ore bodies. The tunnel would be 300 feet long and from its end an upraise of about 50 feet in length would reach the point at which the influx of water compelled the working to be suspended.

Your board adopted this advice and concluded, during this development, temporarily to discontinue stoping in the hope of being able to effect a great reduction in the cost of freighting to Thompson's Landing, if the new tunnel should disclose a sufficiently large body of ore to justify the erection of a wire tramway to Eight Mile Creek. Further, the prospect of cheaper smelting possibilities in the near future (to some extent already realized in the last shipments) induced them to believe that the temporary suspension in stoping would not be disadvantageous in any case. At the time the production was stopped, the board think it safe to say, there was not far short of 500 tons of the best class ore in sight, about half of which was on the lower levels and about half on the 173 foot level. Since that time the few men engaged in development work on the upper levels have struck two or three ore bodies, one of which showed, on being assayed, 1,694 ozs. of silver to the ton ; but this cannot be relied on as more than an indication of the presence of a rich ore body which would probably average about the same as others. It is expected the lower tunnel will be completed in some three or four months, when active production will be resumed with, it is anticipated, diminished proportionate expenditure.

It is not profitable to indulge in or express sanguine hopes. The board can only say that in their opinion the result of the past operations during the first year of the company's existence, and all present indications, justify it in anticipating a successful future.

SUNSHINE—Continued.

BALANCE SHEET, 31ST JULY, 1898.

Capital and Liabilities.

	£ s. d.	£ s. d.
To Authorized Capital—		
50,000 10 per cent. preference shares of £1 each		
250,000 ordinary shares of £1 each	300,000 0 0	
" Share Capital issued—		
25,300 10 per cent. preference shares of £1 each, fully paid	25,300 0 0	
215,000 ordinary shares of £1 each, fully paid	215,000 0 0	
		240,300 0 0
" Sundry creditors		1,275 2 0
" To Profit and Loss Account—		
Balance at date		673 9 0
		£242,248 11 0

Assets.

	£ s. d.	£ s. d.
By Cash—		
London	894 2 3	
British Columbia	2,950 16 1	
		3,844 18 4
" Properties—		
Sunshine, Silver Cup and Towser mineral claims paid for as follows:—		
17,927 10 per cent. preference shares of £1 each, issued as fully paid		
214,993 ordinary shares	232,920 0 0	
Less cash received from Lillooet Company, *re* Towser claim	2,185 14 3	
	230,734 5 9	
Excelsior mineral claim—*Cost*	82 6 1	
Mountain mineral claim		
Silver Cup Fractional claim		
Mountain Fractional claim		
	230,816 11 10	
" Road construction, and buildings—*Cost*	1,330 15 11	
		232,147 7 9
" Stock—Ore sacked at mine and in transit, estimated realizable value	4,713 6 11	
" Mining supplies, food, etc., estimated at	1,034 1 7	
		5,747 8 6
" Sundry debtors		70 16 6
" Preliminary expenses		437 19 11
		£242,248 11 0

SUNSHINE—Continued.

PROFIT AND LOSS ACCOUNT, FROM 3RD MAY, 1897, TO 31ST JULY, 1898.

Dr.

	£ s. d.	£ s. d.
To mining expenses—		
Mining, including developments, salaries, etc	10,206 15 10	
Freight on ore from mine to Thompson's Landing	1,645 18 2	
Licenses and records	183 6 0	
Surveying	134 1 9	
Government tax on shipments	104 4 0	
		12,274 5 9
" General expenses in British Columbia and London—		
Advertising	17 4 4	
Cables and telegrams	14 18 0	
Travelling	31 4 10	
Legal	267 0 1	
Audit Fee	26 5 0	
Interest, exchange and discount	93 16 5	
		450 8 8
" Management fee, including rent, secretary, salaries, stationery, etc., as per agreement		1,250 0 0
" Directors' fees		2,147 4 8
" Balance carried down		673 9 0
		£16,795 8 1

Cr.

	£ s. d.	£ s. d.
By smelter returns—		
Amount received for shipment of 556 tons of ore		15,239 6 0
Less		
Lead duty	1,007 5 9	
Smelter treatment charges	1,152 16 4	
Freight from Thompson's Landing to smelter	1,196 8 8	
		3,356 10 9
		11,882 15 3
" Stock—		
Ore sacked at mine and in transit—estimated realizable value		4,713 6 11
" Hospital account		73 16 4
" Boarding house account		125 9 7
		£16,795 8 1
By balance brought down } Profit to date }		£673 9 0

SUNSHINE MINING CO, Limited.

Incorporated 1895. Authorized Capital, $500,000, in shares of a par value of $10.00.

Office: P. J. Hickey, Manager, Sandon, B.C.

Owns the Oregon, Yakima, Sunshine, Monday and Mine claims, located in Sunshine Basin, Slocan District, B.C.

SWEDEN GOLD MINE CO. OF ONTARIO, Limited.

Incorporated January 6th, 1897. Authorized Capital, $500,000, in shares of $1.00 each.

Directors:

A. Buehler, President.
Thomas Black, Vice-President.
Thos. H. Fahey, James Brownlee, J. T. Robarts, John Russell, J. G. T. Cleghorn, all of Winnipeg.

Head Office: C. E. Carbert, Secretary, Winnipeg.

Mines Office: J. G. Herman, Rat Portage, Ont.

Owns and is developing mining Locations D. 58, and 447 P., known as the Sweden mine, in the Rainy River (Pine Portage) District of the Province of Ontario.

TACHE GOLD MINING CO. OF ONTARIO, Limited.

Authorized Capital, $500,000.

Directors:

J. S. Butler, Chatham, Ont	S. V. Halstead, Chatham, Ont
S. Barfoot, " "	G. C. Scott, " "
G. A. Witherspoon, Chatham, Ont	J. H. Verral, " "
N. H. Stevens, " "	C. Northwood, " "

Officers:

J. S. Butler, President.
A. Barfoot, Vice-President. A. F. Falls, Secretary-Treasurer.

Head Office: Chatham, Ont.

The property of the company consists of the Black Fox, Jumbo, Dolina claims, constituting an area of 240 acres, and located 175 miles west of Port Arthur, six miles from Tache Station on the C. P.R.

TANGIER GOLD MINING CO., Limited.

Officers:

J. B. Neiley, President and Managing Director.
J. F. French, Secretary-Treasurer. George Rowlings, Mine Manager.

Head Office: 63 Equitable Building, Boston, Mass.

Mine Office: Tangier, Halifax Co., N.S.

Owns and is working a gold mining property comprising 172 gold areas, at Tangier, Halifax County, Nova Scotia. Equipped with 20 stamp battery and suitable mining plant.

TANGIER MINE Limited.

Incorporated 1897. Authorized Capital, £120,000 shares of £1 each.

Directors:

Right Hon. the Earl of Essex.
Sir Robert Garnett Head, Bart. | Hon. George E. Hill-Trevor.
Col. Thos. H. Anstey. | E. Grant Govan.
Frederick Callow Hole. | Alexander Matheson.

Head Office: R. Stanley Williams, 16 Copthall Avenue, London, E.C., England.

Canadian Office: W. Perry Leake, Revelstoke, B.C.

Formed to acquire and work the Tangier mineral claim, comprising 52 acres. The property is one of the mineral claims known as the Albert Canyon and Downie Creek group, and is situated in the West Kootenay district of British Columbia.

The Tangier was purchased by the Gold Fields of British Columbia, Limited, after careful investigation, and since it was acquired a considerable amount of development work has been done, sufficient, in fact, to satisfy the directors of the value of the property.

TENNYCAPE MANGANESE CO., Limited.

Incorporated 1894. Authorized Capital, $300,000.

Directors:

D. C. Fraser, M.P.
W. A. French. J. T. Burgess.
Geo. E. Boak. W. F. Jennison,

TENNYCAPE MANGANESE CO.—Continued.

Head Office: Windsor, Nova Scotia.

Formed to acquire and work all the properties formerly owned by the Tennycape Manganese Co. and the Provincial Manganese Co. at Tennycape, Hants County, Province of Nova Scotia.

TESLIN LAKE AND YUKON SYNDICATE, Limited.

Office: A. Sturchcombei, Secretary, 11 Copthall Court, London, E.C.

Registered in England 9th December, 1897, to adopt an agreement with A. Jarvis, and to acquire mines in British Columbia. The Syndicate has acquired 26 claims in the district of Cassiar, B.C., the purchase consideration for which was £20,000 in fully paid shares. The authorized capital is £30,000 in 30,000 shares of £1.

TEXADA ISLAND MINING AND LAND CO., Limited.

Incorporated 1896. Capital, $80,000, divided into 8,000 shares of $10 each.

Directors:

J. W. Stirtan.	Thos. D. Jones.
Thos. Morgan.	Alfred Raper.
Elijah Priest.	Wm. E. Webb.
David Jones.	J. H. Pleace.

All of Nanaimo, B.C.

Head Office: Nanaimo, B.C.

Owns and is developing mineral property on Texada Island, British Columbia.

TEXADA KIRK LAKE GOLD MINES, Limited.

Incorporated 24th February, 1897. Authorized Capital, $600,000, in shares of a par value of $1.00.

Officers:

D. R. Dingwall, Winnipeg, President.
W. L. Challoner, Vice-President. R. A. Wyllie, Treasurer.
Ernest Brammer, Secretary.

Head Office: 29 Board of Trade Bdg., Victoria, B.C.

Owns and is developing certain mineral claims on Texada Island, British Columbia.

TEXADA PROPRIETARY GOLD MINES, Limited.

Incorporated 17th February, 1897. Authorized Capital, $250,000, in shares of a par value of 25 cents.

Officers:

J. M. MacKinnon, President.
Hon. Wm. Pugsley, Q.C., Vice-President. John McQuillan, Secretary.

Head Office: 609 Hastings Street, Vancouver, B.C.

Owns and is developing the Silver Tip mineral claims on Texada Island, British Columbia.

THESSALON GOLD MINING CO. Limited.

Incorporated March 3rd, 1897. Authorized Capital, $800,000, in shares of $1.00 each.

Directors:

J. B. Dobie A. E. Dyment D. Gordon John Knight

Officers:

A. E. Dyment, Thessalon, Ont., President.
J. Knight, Plumner, Ont., Treas. J. B. Dobie, Thessalon, Ont., Secretary.

Head Office: Thessalon, Ont.

The company owns 2,100 acres of mineral bearing lands in Coffin and Galbraith Townships, Algoma District, Province of Ontario.

TIDAL WAVE MINING CO., Limited.

Capital, $1,000,000. Shares $1.00 each.

Directors:

Chas. Wilson Chas. J. Loewen J. M. Buxton.

Head Office: Vancouver, B.C.

Formed to acquire four mineral claims, consisting of the Tidal Wave, the Ocean Wave, the Contact, and the Vernon, all situated in Skylark Camp, in the Kettle River Mining Division of Yale District, in the Province of British Columbia.

TILT COVE COPPER CO., Limited.

Registered 4th April, 1888. Authorized Capital, £200,000, in shares of £2, £160,000 being ordinary, and the balance 10 per cent. preference. All the ordinary and £13,878 preference have been issued and paid. There are also 5½ per cent. debentures for £80,000, redeemable only at the option of the company. In 1888-9 there was a deficit, after providing for debenture interest of £15,575, and in 1889-90 this debit was increased to £25,991; in 1890-91, £34,379 8s. 5d.; 1891-92, £34,909 12s. 8d.; 1892-93, £36,408 4s. 1d.; 1893-94, £37,276 3s. 9d. In June, 1890, the properties were leased for 99 years to the Cape Copper Co., Ltd., at a rental of $4,400 per annum—sufficient to cover the debenture charges—the Cape Copper Co. has power to determine the lease at any time on giving twelve months' notice. The Cape Copper Co. were to advance £15,000 by way of loan to the Tilt Cove Co. at 5 per cent interest, and the whole of this amount has been paid; the loan is to be repaid out of profits, surplus profits thereafter to be divided equally between the two companies.

Directors:

J. R. Francis — J. C. Leaver
John Reeves — John Taylor
Col. J. W. Young

Head Office: E. C. Leaver, Secretary, 9 Queen Street Place, London, E.C.

NEWFOUNDLAND OFFICE:
F. J. Williams, Tilt Cove, Newfoundland.

Owns and operates copper and other mineral properties at Tilt Cove, Twillingate District, Newfoundland.

DIRECTORS' REPORT.
(Submitted 17th November, 1898.)

The following is excerpted from the Report of the Committee of Management, and the accounts as submitted to the shareholders for the twelve months ended 31st August, 1897.

The Revenue and Expenditure Account shows a debit balance of £38,718 12s. 0d.

A copy of the report and accounts, presented by the Cape Copper Company, at their last General Meeting, embracing a description of the progress and result of their operations on this Company's property for the year under review, was sent to each registered shareholder of this Company. They showed that the mines made a gross profit of £32,835 5s. 8d., leaving, after charging the account with the interest and discount payable to the Cape Copper Company, and the rent representing the interest on this Company's

TILT COVE COPPER CO.—Continued.

debentures, a net profit of £23,262 13s. 3d. This sum has gone in reduction of the debt due to the Cape Copper Company.

Reference was made in the last report, to the notice which had been given to terminate the supplementary agreement with the Cape Copper Company, fixing a basis of price for the Tilt Cove ores and regulus taken over by that Company for its own smelting works. A fresh agreement has now been made between the two Companies which, owing to the increased price agreed to by the Cape Copper Company, is already adding considerably to the profits of the Tilt Cove Establishment.

The Directors congratulate the shareholders upon the success which attended the operations upon the Company's properties during the year under review, ending on the 31st August, 1897, by which the indebtedness of the Tilt Cove Company to its lessees, the Cape Copper Company, was reduced from £78,684 10s. 7d. to £53,985 4s. 0d. The result of the yield from the mines to 31st August of the present year will, doubtless, further greatly reduce the debt, and it is hoped that by the 31st August, 1899, the whole of that debt will have been liquidated, and that the Tilt Cove Copper Company will from that date be entitled to receive half profits. It now, however, becomes necessary that steps should be taken to relieve the Company of its other floating debts, amounting to about £6,000. For some time past the payment of these debts has only been held over by the reliance of the Company's creditors, on the promise of some members of the Committee, that at this opportunity means for their liquidation should be adopted.

For this purpose the Committee has decided to issue a further 3,061 preference shares of £2 each, making the total number issued 10,000 shares, out of the 20,000 shares authorized at the Extraordinary General Meeting of 20th November, 1889.

BALANCE SHEET—AUGUST 31ST, 1897.

Liabilities.

	£ s. d.	£ s. d.
Authorized Share Capital—		
80,000 ordinary shares of £2 each.....	160,000 0 0	
20,000 preference " "	40,000 0 0	
	£200,000 0 0	
Issued—80,000 ordinary shares, fully paid....	160,000 0 0	
" 6,939 preference " "	13,878 0 0	
		173,878 0 0
Debentures.....	80,000 0 0	
Second debentures.....	2,000 0 0	
		82,000 0 0
Sundry creditors—		
In England.....	2,838 11 11	
In Newfoundland.....	20 13 6	
		2,859 5 5
		£258,737 5 5

TILT COVE COPPER CO.—Continued.

Assets.

	£	s.	d.
Purchase of freehold land, buildings, plant and machinery..	220,000	0	0
Cash at bankers' and in hand.....	18	13	5
Revenue and Expenditure Account.....	38,718	12	0
	£258,737	5	5

REVENUE AND EXPENDITURE ACCOUNT.

From 1st September, 1896 to 31st August, 1897.

Dr.

	£	s.	d.	£	s.	d.
To balance from last account.....				38,172	12	7
" Debenture interest.....	4,400	0	0			
" *Less* from Cape Copper Company.....	4,400	0	0			
" Second debenture interest.....				103	16	3
" Interest and discount.....				29	6	6
" Rent, salaries and management, cable messages, printing and stamps.....				412	16	8
				£38,718	12	0

Cr.

	£	s.	d.
By balance carried to balance sheet.....	38,718	12	0
	£38,718	12	0

BALANCE SHEET.

From 1st September, 1896, to August 31st, 1897.

Dr.

To sundry creditors	£ 7,259	10	1	
Balance due to the Cape Copper Co., Ltd.	53,985	4	0	
				£ 61,244 14 1

Cr.

By Bodens level—for expenditure.....	£ 2,716	16	0	
Sundry debtors.....	7,245	10	7	
Buildings and machinery.....	35,131	13	1	
Stock of materials at mines and other establishments.....	13,338	12	4	
Cost and returns account—for bal. of acct.	2,812	2	1	
				£ 61,244 14 1

TILT COVE COPPER CO.—Continued.

EAST MINE COST AND RETURNS ACCOUNT.

Dr.

To mining costs	£ 16,194	13	10
Smelting costs	7,491	10	2
Freight, insurance and Swansea charges	31,306	3	5
Balance—profit	32,835	5	8
	£ 87,827	13	1

Cr.

By ores and regulus	£ 87,827	13	1
	£ 87,827	13	1

PROFIT AND LOSS ACCOUNT.

Dr.

To balance from last year	£ 26,074	15	4
Rent	4,400	0	0
Interest and discount—to Cape Copper Company, Limited	5,173	15	10
	£ 35,648	11	2

Cr.

By balance brought down	£ 32,835	5	8
Commission and exchange	1	3	5
Balance (to balance sheet)	2,812	2	1
	£ 35,648	11	2

TOBIQUE VALLEY GYPSUM MINING & MANUFACTURING CO., Limited.

Incorporated 18th August, 1893. Authorized Capital, $50,000, in 500 shares of $100 each.

Directors:

G. P. Brophy, President.

Hon. John Costigan Hon. H. A. Connell John Heney J. B. Lynch

Head Office: John P. Dunne, Secretary-Treasurer, Ottawa.

Formed to acquire and work the Arbuckle plaster mine. The property contains 150 acres, owned outright, together with a mining lease of an area extending one square mile in the Parish of Gordon, Victoria County, Province of New Brunswick. In 1893, 30 persons employed. Value of machinery, plant and building, $14,000.

TORONTO & WESTERN MINES DEVELOPMENT CO., Limited.

Incorporated January, 13th 1897. Authorized Capital, $99,000, in shares of $1.00 each.

Directors:

F. Wyld, Toronto, Ont. | A. A. Allan, Toronto, Ont.
J. Flett. " " | J. Carruthers, " "
J. K. Kerr, Toronto, Ont.

Head Office: Toronto, Ont.

Mine Office: Theo. Briedenbach, Superintendent, Sirdar Mine, via Rat Portage, Ont.

Formed to carry on in all its branches the business of a mining, milling, reduction and development company.

The company owns the Sirdar mine on location D 410, adjoining the Mikado mine on the east; also several other contiguous locations, D 211, D 412, etc., all situated on the granitic area and many other locations throughout the Ontario Western goldfields.

The Sirdar and D 411 properties are each one-half mile square. On the latter location several test pits were sunk on different veins to a depth of 5 to 8 feet each, a and 7 by 11-foot shaft was sunk to a depth of 57 ft. On the Sirdar several veins have been examined by sinking test-pits to a depth of 5 to 8 feet, and two shafts have been sunk, one on No. 1 vein to a depth of over 100 feet (now in progress of development with a steam hoist) and the other on No. 2 vein to a depth of 57 feet.

At date of report was being equipped with a suitable mining and milling plant.

TORONTO TUDOR MINING CO., Limited.

Incorporated January 20th, 1897. Authorized Capital, $1,000,000, in shares of $1.00 each.

Directors:

A. J. Pattison, Toronto, Ont. | F. Diver, Toronto, Ont.
J. W. Curry, " " | G. R. Warwick, Toronto, Ont.
A. F. Rutter.

Head Office: Toronto, Ont.

Formed to carry on in all their branches the business of a mining, milling, reduction and development company.

TRADERS OIL & GAS DEVELOPING CO., Limited.

Incorporated 15th June, 1899. Authorized Capital, $40,000, in shares of $1.00 each.

Directors:

E. A. Tesky, St. Thomas, Ont. | C. E. J. Smith, London, Ont.
Luke Tesky, Toronto, Ont. | J. A. Thomas, London, Ont.
L. E. Smith, Bothwell, Ont.

Head Office: London, Ont.

Formed to buy, sell and lease oil lands and to develop the same for the purpose of obtaining oil, gas or other minerals therefrom.

TRADING AND EXPLORING CO., Limited.

Offices: Winchester House, Old Broad Street, London, E.C.

Registered on the 24th March, 1898, to adopt an agreement with the Klondyke Contract Syndicate, Limited, and to carry on the business of explorers, miners, traders, concessionaries, &c. The Authorized Capital is £84,000, in 40,000 preference shares of £1 each, and 44,000 ordinary shares of £1.

TRAIL CREEK MINING CO., Limited.

Registered 22nd March, 1899. Authorized Capital, £120,000 in shares of a par value of £1.

Directors:

John B. Cree | James B. Gibson
C. Williamson Milne | J. Frame Thomson
John Smith and Herbert Mayo, joint Secretaries.

Head Office: 39 Lombard St., London, E.C.

Canadian Office: Rossland, B.C.

Formed to acquire and take over as a going concern, and work the undertaking and all or any of the assets, property, business and liabilities of the Victory and Triumph Mines, Mines Development Syndicate, Limited, incorporated in 1897, and of the Victory-Triumph Gold Mining Company, Limited liability, of Rossland, in the colony of British Columbia, a company incorporated according to the laws of the same colony. Owns the Victory, Triumph, and Triumph Fraction, comprising about 85 acres and located on Sophia Mountain, eight miles from Rossland, British Columbia. One shaft has been sunk to a depth of 105 feet and a tunnel driven 485 feet.

TRANQUILLE CREEK HYDRAULIC AND QUARTZ MINING CO., Limited.

Incorporated in British Columbia, 8th January, 1897. Authorized Capital, $250,000, in shares of a par value of $10.00.

Office: J. S. Bennett, Kamloops, B.C.

Owns certain placer mining ground on Tranquille Creek, British Columbia.

TREASURY MINES, Limited.

Authorized Capital, $250,000 in shares of a par value of 25 cents.

Officers:

F. H. Jell. President.

J. E. Miller, Vice-President. F. S. Taggart, Secretary.

Head Office: 419 Hastings St., Vancouver, B.C.

Owns and is developing four mineral claims comprising 200 acres, called respectively the Surprise, the Dude, the Dundee and the Comax, and located on Texada Island, British Columbia.

TRENT VALLEY PEAT FUEL CO., Limited

Incorporated February 22nd, 1899. Authorized Capital, $500,000 in shares of $100 each.

Officers:

A. L. Davis, President.

J. R. Stratton and A. Cox, Vice-Presidents.

W. G. Munro, Sec.-Treas. W. J. Simmins, Manager.

All of Peterborough, Ont.

Head Office: Peterborough, Ont.

Owns and is working two peat bogs each three miles wide by 10 miles long in Victoria County, on the Balsam Lake division of the Trent Valley canal, Ontario.

TRIGGS GOLD MINING CO. OF ONTARIO, Limited.

Authorized Capital, $500,000 in 100,000 shares of $5.00.

Directors:

F. D. Sargent. J. T. Thurman. J. W. Miller.
J. H. Triggs. C. W. Belyea.

Officers:

F. D. Sargent, Milwaukee, Wis., President.
J. W. Miller, Rat Portage, Vice-President.
J. H. Triggs, Rat Portage, Secretary-Treasurer.
Thos. H. Philbrook, Mine Manager.

Head Office: Rat Portage, Ont.

Owns and is developing mining locations McA. 56, 129, 148, 189 and 190, comprising 191 acres, on Gi-Bi Lake, Lake of the Woods, Ontario. Opened by one double compartment shaft, down at date of report 115 ft.; 1 tunnel, 40 ft.; 1 cross-cut, 15 ft. The first mill run on 6th June, 1899, gave $2,142 from 85½ tons. Seventeen persons employed.

TRIUMPH MINING CO.,

Organized 1897.

Directors:

Patrick Culligan | F. S. Richardson
Charles Cheney | A. B. Upton
W. H. Sanborn | F. A. Kimball

Head Office: F. A. Kimball, Secretary, Alpena, Mich.

Mines Office: James S. Rayburn, Mine Superintendent, Rat Portage, Ont.

Owns and operates a property comprising 500 acres, nine miles east of Rat Portage, Province of Ontario, on which is situated the Triumph gold mine. The plant comprises an Ingersoll hoisting engine, 2-stamp Tremaine mill, etc.

TRUMP ISLAND MINERAL SYNDICATE, Limited.

Office: George Mountier, Secretary, St. George's House, Eastcheap, London, E.C.

Registered on the 21st September, 1897, to acquire and develop the concessions granted on 26th January, 1897, to A. W. Taylor, assigning to him Trump Island, situated on Friday's Bay, Newfoundland. The syndicate was concerned in the flotation of the Newfoundland Copper Company, Limited. The Authorized Capital is £6,000, in 60 shares of £100.

TRUST MINING CO., Limited.

Registered in British Columbia, 30th January, 1898. Authorized Capital, $50,000, in shares of $1.00.

Head Office: A. M. Phillips, Secretary, Spokane, Wash.

Canadian Office: Benjamin R. Briggs, Kaslo, B.C.

Owns and is developing a group of eight claims known as Stars and Stripes, Liberty Hill, Contact, Lime Cliff, Success, 16 to 1, Three Bros. and South Fork, situated on the South Fork of Kaslo River, 2½ miles distant from the K. & S. R'y., in the Slocan Mining District, British Columbia.

TUDOR GOLD MINING CO., Limited.

Incorporated 1894. Authorized Capital, $150,000, divided into 15,000 shares of a value of $10 each.

Directors:

Charles F. Ayer, President, Lowell, Mass.

James C. Ayer, New York.	S. W. Thurlow, Lowell, Mass.
Fred'k. Taylor, Lowell, Mass.	J. E. Hardman, Halifax, N.S.

Head Office: S. W. Thurlow, Treasurer, Lowell, Mass.

Mines Office: Waverley, N.S.

The Company controls, under lease from the Local Government, a property containing over 100 gold areas, situate in the Waverley District, Halifax County, Province of Nova Scotia. Mine ten miles from the City of Halifax. 75 men employed. 20 stamp mill, driven by compound condensing steam engine; one compound condensing duplex 10-drill Rand compressor; one double cylinder, double drum winding engine, built by the Jenckes Machine Co. (cyl. 8 in. x 12 in., drum 42 in. x 36 in.); one 12 in. x 24 in. Foster ore breaker, with a capacity of 120 tons in 10 hours; two 50 h.p. horizontal tubular boilers and one upright 25 h.p. boiler; stamp mill equipped with Golden Gate and Perfection concentrators.

In 1895, from January to September, the yield reported for royalty was 989 ozs., 7 dwts., from 4,457 tons of rock crushed; no returns received for 1896; yield in 1897, 457 ozs. 2 dwts. 9 grs., from 695 tons of rock milled; 1898, 357 ozs. 2 dwts. 23 grs., from 902 tons crushed.

TULAMEEN HYDRAULIC AND IMPROVEMENT CO., Limited.

Incorporated 1891. Authorized Capital, $60,000.

Directors:

R. G. Tatlow, Vancouver, B.C.
Alexander Ewen, New Westminster, B.C.
J. C. Armstrong, New Westminster, B.C.
Hon. D. McInnes, Victoria, B.C.
Benjamin Douglas, New Westminster, B.C.

Head Office: Walter J. Walker, Secretary, New Westminster, B.C.

Formed for the purpose of acquiring and consolidating certain leases known as the Tulameen, the Hines Creek, and the Eagle Creek claims, situate on the Tulameen River, in the Yale Division of British Columbia. The workings are distant from Kamloops station, on the line of the C.P.R., about 125 miles by waggon road and trail. The claims owned by the company extend from Eagle Creek, a distance of two and a half miles down the Tulameen River, and contain large benches or alluvial deposits of platinum and gold-bearing gravel.

TWIN SILVER MINING CO., Limited.

Registered in British Columbia, March, 1897. Authorized Capital, $1,000,000, in shares of $1.00.

Head Office: L. J. McAtee, Kaslo, B.C.

Owns and is developing the Twin mineral claim, near Ainsworth, British Columbia.

TWO FRIENDS MINE, Limited.

Incorporated 1896. Authorized Capital, $240,000, in shares of a par value of 30 cents.

Head Office: 538 Hastings Street, Vancouver, B.C.

Is developing the Two Friends claim on Springer Creek, seven miles from Slocan City, Slocan Mining District, British Columbia.

TWO FRIENDS MINING CO., Limited.

Incorporated in British Columbia, August, 1896. Authorized Capital, $750,000, in shares of $1.00.

Head Office: 538 Hastings Street, Vancouver, B.C.

Owns and is developing the Great Western mineral claim, situated near the head of McGuigan Creek, 4 miles from McGuigan Station on the K. & S. Railway, Slocan District, British Columbia Opened by tunnel in 300 ft.

TYCOON MINING AND DEVELOPMENT CO. OF ONTARIO, Limited.

Incorporated 1898. Authorized Capital, $150,000, in shares of $1.00 each.

Directors:

J. Emmons, Rat Portage, Ont.
G. A. Kobald, Rat Portage, Ont.
M. Kyle, Rat Portage, Ont.
J. Conmee, Port Arthur, Ont.

Head Office: Rat Portage, Ont.

Formed to carry on in all their branches the operations of a mining, milling, reduction and development company.

The company owns and is developing a water mining location, comprising 60 acres, enclosing three islands, in Bag Bay, immediately in front of the Mikado and Sirdar mines, Lake of the Woods, Ontario.

UNION COLLIERY CO. OF BRITISH COLUMBIA, Limited.

Incorporated 25th July, 1888. Authorized Capital, $1,000,000, divided into 10,000 shares of $100 each.

Directors:

James Dunsmuir, President.
Alexander Dunsmuir. John Bryden.

Head Office: Francis D. Little, General Manager, Comox, B.C.

This Company owns property containing 3,000 acres of coal lands, and operates the Union colliery, near Comox, on Vancouver Island, British Columbia.

UNION COLLIERY CO. OF B.C.—Continued.

Union colliery—Eleven miles from shipping wharf, connected by standard guage railway. Rolling stock includes four locomotives (Baldwin) of 45, 30, 25 and 15 tons respectively; 150 25-ton coal cars, etc.

Two seams worked, averaging 3 ft. and 5 ft. respectively; dip 1 ft. in 6 ft. (north); opened by two slopes 2,200 yards and 700 yards respectively, and by one shaft 600 ft. deep, with levels 900 yards apart.

System of working—Longwall in upper seam; pillar and stall in lower.

Ventilation—No. 2 slope by Murphy fan, 8 ft., dia, 200 revolutions per minute; No. 4 slope by Guibal fan, 14 ft. dia., adit level by furnace. Ventilation on the separate split system, the intake being the slope; the air afterwards is split in four divisions, two for main slope and the others for diagonal slope; after going around the working places it unites in one volume and goes along the air way and out at the upcast shaft.

Lamps—Naked lights.

Boilers—No. 1 slope, two 24 ft. x 48 in. each, return flues, 80 lbs. pressure; at No. 4 slope there are six boilers same style and size as No. 1. There are also three upright tubular boilers 7 ft. x 42 in., for prospecting engines. No. 2 slope, two locomotive boilers; No. 5 shaft, four boilers same as No. 4.

Winding engines—Three in place at No. 1 slope, one direct acting, 16 in. cyl. dbl., 36 in. stroke, drums 6 ft.; No. 4 slope, tail rope, 4 drums, geared, 16 in. cyl., 2. in. stroke, drums 6 ft.; at No. 2 (prospecting) one geared, 12 in. cyl., 16 in. stroke, dia. of drum 4 ft; No. 5 shaft, direct acting winding engine, two 20 in. cyl., 5 ft. stroke, 14 ft. drum.

Pumps—Ten in place; three Worthington, one fly wheel pump and six Gould electric pumps with Jeffrey motors.

Screens—One inch main screen 12 ft. long. At date of report the Company was completing a Sheppard washer having a capacity of 300 tons per day.

Washing plant—Sheppard, 300 tons; Luhrig, 600 tons per day.

Coke ovens—100 Bee-hive. Coke made 1895-6, 1,565 tons; 1897, 17,813 tons, of which 17,101 tons were sold; 1898 returns not given.

Other plant—This includes a diamond drill; one steam pile driver; two saw mills, having a capacity of 10,000 feet per day each, and surface incandescent electric light plant.

Value of plant estimated at $125,000.

UNION COLLIERY CO. OF B.C.—Continued.

OFFICIAL RETURNS OF OUTPUT.

	Output at 31st Dec.	Exported.	Home Consumption.
	Tons.	Tons.	Tons.
1889	31,204	23,790	100
1890	69,537	74,048	1,481
1891	114,792	103,960	294
1892	68,928	66,556	.....
1893	143,927	114,356	29,478
1894	241,372	233,660	7,222
1895	264,550	227,134	36,116
1896	233,610	165,885	66,648
1897	265,642	176,212	96,687
1898*	236,395	129,684	.....

*Figures for 1898 were refused to the Department of Mines and are, therefore, only estimated.

UNITED ASBESTOS CO., Limited.

Registered 1st November, 1880. The Capital is £9,970, in fully paid 10 per cent. non-cumulative preference shares of £10, £30,000 in 6 per cent. cumulative preference shares, £49,875 in fully paid ordinary (A) shares of £5, and £50,000 in fully paid deferred (B) shares of £5. The "B" shares were issued as fully paid up to the subscribers of "A" shares. All the shares were originally of $10, but at the end of 1883 it was decided to write off £5 per share from the ordinary and deferred capital (the preference not having then been issued).

Directors:

E. Gellatly, Chairman.

H. A. Allport F. Elias. J. P. Hurst. J. R. T. Upton.

Head Office: J. A. Fisher, General Manager, J. Hawkridge, Assistant Manager, Dock House, Billiter St., London, E.C.

Canadian Office: John J. Penhale, Superintendent, Black Lake, Que.

Formed in 1880 to take over the business of the Italo-English Pure Asbestos Co., Limited, the asbestos mines and business of Messrs. Furze Bros. & Co. of Rome, the Patent Asbestos Manufacturing Co., and to acquire

UNITED ASBESTOS CO.—Continued.

and work asbestos estates in Italy, Canada and elsewhere. In 1889 it purchased the property formerly worked by the Frechette Mining Co., containing some 75 acres of asbestos lands situate in Block A, Township of Coleraine, Province of Quebec. Mine located about one quarter of a mile from Black Lake station on the line of the Quebec Central Railway. Engine and machinery equipment comprises : two seventy horse-power, one fifty horse-power and one twenty-five horse-power boilers ; one 16 x 24 straight line Rand compressor with the necessary equipment ; one 7 x 10 in. duplex double drum Bacon hoisting engine ; 7 x 12 x 15 inch duplex double drum Beatty hoisting engine, and one 12 x 15 x 60 in. duplex winding engine with drums, flanged for winding 4,000 ft. ⅞ in. rope. Dressing mill 40 x 75 ft., 3 stories equipped with 50 h.p. engine, rock breakers, small crusher, roll and fiberizing apparatus. The Bacon winding engine operates tramway 3,800 ft. on the main and tail rope system ; tram line was built in 1892 to carry off the dumps to rear of property ; Ingersoll and Rand drills ; Blake and Cameron pumps, four boom and two cable derricks. The company also operated in 1897–98 the Broughton asbestos mine, under lease from the Glasgow and Montreal Asbestos Co. The work has been more in the nature of opening and developing new ground.

UNION INVESTMENT CO., Limited.

Authorized Capital, $50,000 in shares of a par value of $100.

Directors :

J. A. Kirk. J. S. Gilmour. A. F. Corbin.

Head Office : S. P. Thompson, Secretary, Rossland, B.C.

Owns a mineral property comprising three claims and covering 90 acres, near Fort Steele, East Kootenay District, British Columbia.

VALLENTYNE MICA MINING CO., Limited.

Head Office : Jno. B. Vallentyne, Secretary-Treasurer, Sunderland, Ont.

Owns and is developing mica, and other mineral bearing territory at Parry Sound, Ontario.

VAN ANDA COPPER AND GOLD CO., Limited.

Incorporated under the Laws of the State of Washington, and registered in British Columbia, 6th May, 1896. Authorized Capital, $5,000,000, in shares of a par value of $1.00.

Officers:

Edward Blewett, President.
R. D. Hall, Secretary. Harry W. Treat, Treasurer.
Secretary's Office; 68 Wall Street, New York.

Directors:

E. Blewett, Seattle, Wash.
Hon. C. E. Pooley, Victoria, B.C.
Henry Saunders, Victoria, B.C.
C. S. Neeros, Chicago, Ill.
R. F. Wilds, Chicago, Ill.
R. W. Treat.

Head Offices: 108 La Salle Street, Chicago, Ill.; and 603 Bailey Building, Seattle, Wash.

Registered Office in Canada: Victoria, B.C.

Mine Office: Van Anda, Texada Island, B.C.

This company owns and is developing the Van Anda, Raven and other claims, comprising in all an area of 786 acres, and situate on Van Anda Bay, Texada Island, British Columbia. Mr. Robertson, Provincial Minerologist to the British Columbia Government, in his Report for 1898, describes the property and the operations at the date of his visit as follows:—

Townsite—The Van Anda Company has platted a townsite at Van Anda Bay, on which some clearing has been done. A manager's house has been erected on the shore, while further back, and on the way to the mine, there are three or four buildings—consisting of a boarding-house for the men, store, laboratory, etc. Preparations were being made for the erection on the town site of a 50-ton water jacket smelter, the plant for which was awaiting transhipment in Vancouver, ready for erection. This, I understand, is now in progress, under the superintendency of Mr. Kiddie, late assistant superintendent of the Orford Copper Company, of New York. A concentrator was also in contemplation, but, as far as I have heard, no actual move has been made in that direction.

Van Anda Mine.—From what examination I was able to make of this immediate locality, I was of the opinion that the ore found occurred either in, or intimately associated with, a series of dykes, apparently of felsite,

VAN ANDA COPPER AND GOLD CO.—Continued.

which cut through the very highly altered and crystalline limestones which form the conntry rock in this locality.

The old Van Anda shaft, a somewhat irregular incline, down 92 feet, following the dyke and having a level at 60 feet down, driven some 94 feet; while at 92 feet down levels have been set off on either side 50 and 134 feet respectively, from which levels drifts have been run amounting in all to some 100 feet. Between these two levels a considerable amount of stoping has been done and a large amount of the ore-bearing matter taken to the surface, from which some 500 tons of shipping ore has been sorted out, and sold for shipment to Swansea. This sorted ore is reported to me as carrying from 10 to 15 per cent. copper, seven ounces of silver, and $7.00 in gold. The new Van Anda shaft is vertical, sunk from the surface to a depth of 230 feet, and cutting one of the levels from the old shaft at a depth of 92 feet, while at a depth of 175 feet and also from the bottom of the shaft, levels were being started off, but at the time of my visit had only progressed a few feet. I am since informed by the surveyor that the 175 foot levels have now reached a distance from the shaft of 25 and 30 feet, while the levels from the bottom of the shaft are now off about 75 feet. The new shaft seems to have been in or near the ore-bearing body all the way down, and at the lower levels the body seems to be increasing in size. The ore-body carries, scattered through it in irregular masses, bornite and chalcopyrite, carrying certain values in silver and gold. The ore is of such character that the No. 1 or shipping ore, can be easily hand-sorted, but the percentage of such shipping ore is rather uncertain. Above the 92 foot level, that is in the workings from the old shaft, little or no work has been done this past year. The ore chute above this level would not appear to have exceeded 100 feet in length, and would seem to have been practically stoped out so far as it is known to exist, and no new ore-bodies have been here shown up by development.

The work in the new levels, the 175 foot and the 230 foot, had not progressed far enough at the time of my visit, for me to form an accurate opinion of the ore chute at that depth. The ore-bearing body in these lower levels appeared to be wider, but the quantity of ore therein did not seem to have increased.

The property must still be classed as a prospect, even though so much development work has been done, as there is no "ore in sight," as the term is understood by mining men, nor has the size of the ore chute been determined.

Plant—The hoisting plant consists of a small boiler and hoist, in a temporary bnilding, A small pump is also in use, and it is apparently sufficent for the reqnirements.

VAN ANDA COPPER AND GOLD CO.—Continued.

An ore shed had been constructed near the mine, in which was stored a certain amount of ore already sold, but which had not been removed.

Preparations were being made for the erection of a substantial shaft-house and sorting-shed, with bins, etc. It was also expected that a new and suitable hoisting plant and an air compressor would be erected this winter to facilitate the development.

Cornell Claim—A location held by the same company and situated some half-mile from the Van Anda shaft. On the hill side an outcropping of apparently a felsite dyke in contact with a whitish crystalline limestone, had been stripped for a few feet on the surface, the line of contact running nearly east and west, the dip being about 80.°

In the felsite near the contact there appeared a deposit of bornite and yellow copper, which looked very promising, but the size of which was still to be determined, as on October 27th, nothing more than a few feet at the surface was in sight.

An open cut through soft wash, was being run in some 20 feet below, but had not at that time reached solid formation.

Mr. Going, P.L.S., who made survey of the claim on December 15th, reports to me that at that date the open cut had reached solid rock, and that a 28 foot tunnel had been run in, cutting at the face the white lime at a depth of 30 feet from the surface, while the felsite in the last eight feet of tunnel was strongly mineralized with copper sulphides.

Little Billie Claims—A location, also held by the same company, is situated about half a mile from the Van Anda shaft and some hundred yards from the beach on the east shore of the island. At the time of my visit no work had been done on this claim since it was reported upon last year, but preparations were being made to further prospect the property.

The rock formation would appear to be a crystalline limestone underlayed by an intrusive granite of probably later origin, the whole being cut by more recent igneous dykes, probably diorite and felsite. The felsitic dykes, at and near the contact with the granite, are more or less heavily mineralized in places with chalcopyrite and iron pyrites, carrying some gold and silver.

The work done consists of a 60 foot tunnel, from which some short drifts have been run, and on which an irregular chamber has been stoped out, said to have contained a body of good ore. Near the mouth of the tunnel a shaft or winze has been sunk, said to be 40 feet deep with a 40 foot drift from the bottom to the contact, but these were full of water and I could not personally inspect them.

Some 50 tons of ore had been sacked and lay in an ore shed on the property, having been sold to Mr. Pellew-Harvey, as agent for a Swansea concern.

VANCOUVER AND BRITISH COLUMBIA GENERAL EXPLORATION CO., Limited.

Registered 25th April, 1896. Authorized Capital, £25,000, in shares of £1 each; all the shares having been issued 10s. per share paid up.

Directors:

Patrick Comiskey. Andrew Haes. Fred. Burdette.

Head Office: Philip J. Dietz, Secretary, 8 Finch Lane, London, E.C.

Canadian Office: E. B. Fraser, Silverton, B.C.

Formed to acquire certain properties in the Slocan District, British Columbia. (See notice of Galena Mines, Limited.)

DIRECTORS' REPORT, 1898.

(*Submitted 14th December*, 1898).

The Directors herewith beg to submit their Second Report and Balance Sheet made up to the 30th September, 1898.

At the last meeting, held December 22nd, 1897, the position of the Company was clearly set before the shareholders, and the disappointing results arrived at by the developments at the Galena Mines, Limited, (our first promotion), were fully reported on. During the last twelve months work has been carried on at the mines, but without satisfactory results.

The want of success of the Galena Mines, has to some extent prevented the Directors from pushing forward the business of the Company as rapidly as they would have wished. When they dispensed with the services of Mr. C. W. Callahan, their first object was to secure a suitable and reliable successor. This they succeeded in doing, and appointed Mr. E. B. Fraser, who has had a very large and varied experience, to be the engineer of the Company. He has inspected the several claims selected by Mr. C. W. Callahan, and has pronounced unfavorably in regard to most of them. This Company owns a group of claims known as the Read and Tenderfoot, and on those claims since last December further development work has been done, but as yet the value of the claims cannot be regarded as having been proved; a good deal of work is still required to thoroughly open up this property, but for the time being work has been suspended, owing to the severity of the winter season.

Matters have not gone smoothly during the year; there have been several difficulties to overcome, but your Directors hope that with an improvement in mining matters some good business may be secured, the acquisition of which will materially strengthen the position of the Company.

VANCOUVER AND B.C. GENERAL EXPLORATION CO.—Continued.

Mr. Fraser, the engineer of the Company, will probably arrive in London prior to the date of the meeting now called, and will put the Directors in the possession of the latest information regarding the Company's properties. Expenses have been cut down to the lowest possible point, and the strictest economy is being exercised.

BALANCE SHEET, 30TH SEPTEMBER, 1898.

Dr.

Share Capital Authorized £25,000 0 0		
in 25,000 shares of £1 each.		
To Share Capital Issued—		
25,000 shares on which has been called up 10s. per share.....		£12,500 0 0
Sundry Credit Balances		517 9 10
		£13,017 9 10

Cr.

By Registration and Preliminary expenses			£36 5 0
By Expenditure in British Columbia—			
As per last accounts.....	£5,441 5 6		
Further Expenditure during the year to date—			
Deposits	£207 5 1		
Wages and salaries.	94 13 2		
Tools and stores ...	22 2 5		
Plans and assays...	4 15 4		
Travelling expenses	3 4 10		
Law charges.....	45 11 11		
Cables & telegrams.	1 11 10		
Office and general expenses	41 11 9		
		420 16 4	
			£5,862 1 10
By Expenditure in England—			
As per last accounts.....	£2,902 19 3		
Further expenditure during the year to date—			
Special remuneration.....	£328 15 4		
Rent and office salaries	247 14 1		

VANCOUVER AND B.C. GENERAL EXPLORATION CO.—Continued.

Law charges	£114 19 5			
Auditor's fees	18 18 0			
Printing, stationery and advertising	35 6 1			
Cables, postage and telegrams	11 7 6			
Office and general expenses	16 8 6			
	£774 8 11			
Less transfer fees, &c.	16 9 0			
		757 19 11		
			3,660 19 2	
			£9,523 1 0	
Less securities realized			2,664 10 0	
				6,858 11 0
By Investments, at cost				2,625 0 0
(There is a liability of £375 for calls on shares not yet fully paid).				
By Payments to C. W. Callahan not as yet accounted for				3,279 0 5
By Cash at Bankers and in hand—				
London			142 2 0	
British Columbia			76 11 5	
				218 13 5
				£13,017 9 10

VANCOUVER GOLD FIELDS, Limited.

Incorporated 29th December, 1896. Authorized Capital, $500,000, in shares of a par value of $1.00.

Directors:

Dr. G. L. Milne, President.
J. I. Johnston. R. W. Harris. J. A. McGillivray. R. Y. Milne.

Head Office: R. B. Ellis, Secretary, 226 Cambie St., Vancouver, B.C.

Owns a property comprising mineral claims as follows:—Aberdeen, Mexican, and Niagara group of four claims, on Loughborough Inlet; Triangle, on Texada Island: Twilight, near Jervis Inlet; Tiger, on Harowick Island; Montreal, Ottawa and Toronto, on Thurlow Island, and the Moonlight group of six claims, on Nelson Island, British Columbia.

VAVASOUR MINING ASSOCIATION.

Head Office: T. F. Nellis, Metcalfe Street, Ottawa.

The property is situated on Lot 10 in the 21st Range of Hull, near the Village of Cantley, Que. Opened since May, '891, and has produced over 300 tons of merchantable mica. Several hundred tons of phosphate of high grade are on the dump, waiting an improvement in market. There are four veins of calcite, pyroxene and apatite running in a north-north-easterly direction, with a dip of 45 degrees east, one of which has been followed for a distance of 1,646 feet, the size varying from 3 feet to 15 feet. Considerable work has been done, consisting at date chiefly of an opening 200 feet and shafts of 90 and 70 feet respectively, into a gallery of 80 feet. The principal vein has been opened for a length of over 400 feet. There is a cutting shop at the mine.

VELVET MINES, Limited.

Incorporated in England and Registered in British Columbia, 2nd August, 1898. Authorized Capital, £100,000, divided into 100,000 shares of £1 each.

Head Office: 23 Leadenhall St., London, Eng.

Registered Office in Canada: Board of Trade Bdg., Victoria, B.C., Hon. F. Peters, Attorney.

Mine Office: Captain Morrish, Rossland, B.C.

The Company was formed to adopt and carry into effect an agreement made with the London and British Columbia Gold Fields, Limited, of which it is a subsidiary company. It is developing the Velvet mine, near Rossland, the operations of the Company during 1898 being indicated in the following excerpt from the Mines Report, B.C., for that period :—

Development work comprises 4 drives, 4 winzes, shaft and tunnel. The north drive, at the 100-foot level, is driven 222 feet; the south drive, at the same level, 145 feet. The north drive, at the 160-foot level, is driven 151 feet; the south is driven 160 feet at the 70-foot level. No. 1 winze, at the south of the shaft, is sunk from the surface 100 feet; No. 2 winze, north of shaft, is down from the surface 100 feet; No. 3 winze, north of shaft, is down 60 feet from the 100-foot level; No. 4 winze, north of the shaft, is sunk from the 100-foot level 60 feet. Depth of shaft 210 feet. The distance driven in tunnel is 54 feet. The shaft was sunk through ore from the surface to the 160-foot level. Ore was also encountered in the drives and winzes. Number of men employed 28. No market shipments of ore have yet been made.

VERMILION FORKS MINING AND DEVELOPMENT CO., Limited.

Registered in British Columbia, 11th July, 1898. Authorized Capital, £60,000, in 60,000 shares of £1.

Head Office: 9 Fenchurch Avenue, London, Eng.

Canadian Office: W. J. Waterman, M.E., Princeton, B.C.

Owns and is developing certain placer leaseholds in the Similkameen Mining Division of British Columbia. During 1898 a flume over a mile in length was constructed and preparations made to work the property on an extensive scale in 1899.

VICTORIA-ALBERTA GOLD DREDGING SYNDICATE.

Authorized Capital, $150,000, in shares of a par value of $1.00.

Head Office: Isaac Cowie, Edmonton, Alberta, N.W.T.

Formed to dredge for gold, platinum and other metals, over an area of some 30 miles of the North Saskatchewan River.

VICTORIA CONSOLIDATED HYDRAULIC MINING CO., Limited.

Incorporated by an Act of the Legislature of the Province of British Columbia, 1895. Authorized Capital, $300,000.

Directors:

Frederic Nicholls, Toronto.	Thos. G. Holt, Montreal.
Donald D. Mann, Montreal.	Wm. Wilson, Victoria.
D. E. Campbell, Victoria.	I. H. Hoare, Vancouver.

Head Office: A. E. McPhillips, Secretary-Treasurer, Victoria, B.C.

Mines Office: Quesnelle Forks, Cariboo, B.C.

The property comprises hydraulic ground on the south side of the South Fork of the Quesnelle River and adjoining the Hop E. Tong Company on

VICTORIA CON. HYDRAULIC MINING CO.—Continued.

Dancing Bill Gulch, held under a lease from the Crown, dated 6th November, 1890, for a term of 20 years at the yearly rental of fifty dollars, save and except thereout that mining ground known as the "Loo Quong Ching Ton" line claims, containing twelve acres, more or less, on Dancing Bill Gulch, and which said ground was demised by the Lieutenant-Governor in Council to the Cariboo Hydraulic Mining Co., Limited.

In his report on the Cariboo district, Mr. Carlyle (Mines Report, B.C., 1897) describes the operations of the company as follows:—At the time of visit a considerable clearing had been made, and a face was being washed off with a 2-inch nozzle, and already both rims of this channel had been found at a point half a mile up the gulch from the main river. The channel appeared to be about 150 feet wide, and was at a considerable elevation above the bed-rock in the Cariboo mine, the gravel prospected well enough to be very profitable, if further development proves up a large body. Rose's gulch has apparently cut across a bend in this channel, as along the south side test pits again disclose gravel, while the new waggon-road to the dam at Quesnelle Lake is said to have laid bare an excellent cross section along the right bank of the South Fork. A large amount of gold is said to have been taken from this gulch by both whites and Chinese, and higher up on the north bank of the gulch a small bed of gravel has been washed in a small way, coarse gold being found lying next to a peculiar deposit of "cement" or boulder clay. This discovery is of great interest, and during the coming season will be further opened up and explored, as a large amount of water can be brought from Spanish Lake in a ditch 12 to 13 miles in length, while the dumping facilities are excellent. The company at this point has acquired, two or three miles from Quesnelle Forks, four leases and bonded the adjoining or Bain leases, by means of which a fair water supply can be secured for further prospecting.

On the left bank of the South Fork the company owns several leases immediately north-west of the Cariboo mine, on which in the past considerable, but unsuccessful, work has been done, the Cariboo channel having been thought to pass here. Work has also been done, but with poor results, on the lease on the north bank of the North Fork, below the mouth of the Spanish Creek, to which water was brought from Spanish Lake in about six miles of ditching and a considerable length of pipe-line. Prospecting has also been done, but with no results as yet, on leases on Paquette Creek, near where it flows into Quesnelle Lake. During the coming year it is expected that all work will be concentrated at this discovery in Rose's gulch, where another clue will be afforded to the, as yet, little understood buried river system.

VICTORIA GYPSUM MINING AND MANUFACTURING CO., Limited.

Incorporated by an Act of Nova Scotia Legislature, assented to 15th April, 1890, and amended by an Act dated 19th May, 1891. Authorized Capital, $100,000, divided into 2,000 shares of a value of $50.00 each.

Directors:

Wm. Gibson, Williamsport, Pa, President.

J. C. Fender, Chester, Pa., Treasurer.

Hon. Gardener G. Hubbard, Washington, D.C.

W. F. McCurdy, Baddeck, B.C.

Head Office: W. F. McCurdy, Resident Manager, Baddeck, C.B.

Formed to mine and quarry gypsum on the Island of Cape Breton and elsewhere in the Province of Nova Scotia. The properties, a portion of which is held under lease, all are situate in Victoria County, N.S., and comprise the following parcels of land:—

730 acres at North Gut, St. Ann's; 725 acres at South Gut and Monroe's Point; 1,300 acres at Goose Cove; 1,400 acres at Port Bevis; 400 acres at Red Head; 400 acres at Gillies Point; 800 acres at Grand Narrows; 808 acres at Janesville: 419 acres at Little Narrows; 400 acres at McAskill's Rear; 200 acres at Washaback River.

In the fall of 1891 the company opened an extensive deposit of gypsum on its Port Bevis property, at a point about eight miles east of the town of Baddeck, and operations have been carried on vigorously since. There has been built a line of railway two miles from the quarries to wharf, equipped with locomotives, cars, etc., the whole estimated to have cost in the vicinity of $30,000. The wharf at Port Bevis can accommodate vessels drawing 23 feet of water.

The company has also at North Gut, St. Ann's Harbor, two fine quarries almost at the water's edge: two good wharves, at one of which there is a depth of 15 feet of water at low tide, and at the other 21 feet. The quarries are situate about eight miles from the quarries at Port Bevis. Both the harbors of St. Ann's and Port Bevis are very easy of access and may be called perfect harbors for large or small vessels. Capacity for shipping at Port Bevis wharf, 400 tons per day.

VICTORIA MINING AND DEVELOPMENT CO., Limited.

Incorporated 18th June, 1896. Authorized Capital, $100,000, in shares of a par value of $10.00.

Officers:

John Bryden, M.P.P., President.
Moses McGregor, Vice-President. Robt. H. Swinerton, Secretary-Treasurer.

Head Office: 106 Government Street, Victoria, B.C.

Owns and is developing the Moonshine and Right Bower mineral claims, situated on Kootneay Lake, ¾ miles south of Lardeau, B.C.

VICTORIA TEXADA GOLD MINING CO., Limited.

Authorized Capital, $150,000, in 600,000 shares of a par value of 25 cents.

Directors:

R. Hall, Chairman, Victoria, B.C.
Dr. D. B. Holden, Victoria, B.C. | Geo. L. Courtney, Victoria, B.C.
W. H. Bone, Victoria, B.C. | A. Henderson, Victoria, B.C.
W. Christie, Victoria, B.C. | John R. Collister, Victoria, B.C.

Head Office: J. Kingham, Secretary, 28 Broad Street, Victoria, B.C.

Formed to acquire and work the Potosa mineral claim, situate on the west coast of Texada Island, British Columbia, and containing an area of 52 acres.

VIRGINIA MINING CO., Limited.

Incorporated 1898 with an authorized Capital of $500,000 in shares of a par value of $1.00.

Head Office: Rossland, B.C.

Formed to purchase or acquire, by amalgamation or otherwise, all of the assets, rights, powers, privileges and franchises of the Virginia Gold Mining Company (foreign), and to purchase and acquire the interest or shares of any or all of the shareholders in the Virginia Gold Mining Company (foreign), and to issue paid up stock of the company, or stock of the company in part paid up, or both therefor. And to adopt and carry into effect,

VIRGINIA MINING CO.—Continued.

with or without modification, certain agreements which have been already prepared and are expressed to be made between George E. Pfunder, of the City of Rossland, of the one part, and Harold Kingsmill, of the same place, on behalf of the company, of the other part, and which agreements are to be signed immediately after the incorporation of the company, copies whereof have, for the purpose of identification, been subscribed by William Stearne Deacon, Esq., a solicitor of the supreme court.

At the end of the year 1898 the shaft on the Virginia mine had been sunk 400 ft.; drifts 816 ft.

VIRGINIA MINING CO. OF ONTARIO, Limited.

Incorporated 1898. Authorized Capital, $250,000 in shares of $1.00 each.

Directors:

E. W. Stifle, Wheeling, Virginia, President.
S. H. Brockunier, Rat Portage, Ont., Sec.-Treas.
L. H. Stifle. M. G. Brockunier.

Head Office: S. H. Brockunier, Sec.-Treas. and Manager, Rat Portage, Ont.

Mines Office: Lizzie Mine, Rat Portage, Ont.

This company is developing a mineral property consisting of ten claims covering 146 acres, and located at Elizabeth Lake, Lake of the Woods District, Ontario. Opened at date by shaft down 107 ft.; adit 40 ft.; open cut 35 ft.; drifts 16 ft. Equipped with one 15 h.p. locomotive boiler; one 6 x 8 in. double drum friction hoisting engine; Cameron pump and other plant.

WABIGOON FREE MILLING GOLD MINING CO., Limited.

Incorporated February, 1897. Authorized Capital, $1,000,000 in shares of $1.00 each.

Directors:

R. T. Johnson, Toronto, Ont.
C. C. Robinson, Toronto, Ont.
A. Mills, Toronto, Ont.
Dr. W. T. Stuart, Toronto, Ont.
W. Halloway WallBridge.
B. Laurence, Toronto, Ont.

Formed to carry on in all their branches the business of a mining, milling, reduction and development company.

WAHNAPITAE GOLD FIELDS CO., Limited.

Incorporated 1898. Authorized Capital, $1,250,000 in shares of $10 each.

Directors :

B. A. C. Craig, Toronto, Ont.
A. C. Craig, Toronto, Ont. | J. S. Fullerton, Toronto, Ont.
H. L. Dunn, Toronto, Ont. | W. K. George, Toronto, Ont.

Formed to carry on in all their branches the operations of a mining, milling, reduction and development company.

WAKEFIELD MINES, Limited.

Registered in Edinburgh 26th February, 1898. Authorized Capital, £100,000, in 100,000 shares of £1 each.

Directors :

Sir R. Moncrieffe, Bart. John S. McArthur T. Macnair
W. B. Rankin F. J. Smith

Head Office: 157 Buchanan Street, Glasgow.

Canadian Office: David Bremner, Silverton, B.C.

Formed to acquire the assets and undertaking of the West Kootenay (B.C.) Exploring and Mining Company, Limited, and to carry on the business of a mining and exploration company. The purchase consideration was £75,000, payable in fully paid shares.

The company owns and is developing the Wakefield group, comprising 16 mineral claims, and covering an area of about 380 acres, on the north side of Four Mile Creek, about four miles from the town of Silverton, Slocan District, British Columbia. The ore mined is galena and carbonates. During 1898 2,000 ft. of tunnelling driven, 45 persons being employed.

WALKER GAS AND OIL CO. OF BOTHWELL, Limited.

Incorporated 1896. Authorized Capital, $250,000, in shares of a par value of $50.00; paid in, $70,100.

Directors :

J. H. Walker H. A. Walker Nathan Wade
Isaac DeGraff W. T. DeGraff

Head Office: Wm. Kennedy, Secretary, Walkerville, Ont.

WALKER GAS AND OIL CO.—Continued.

This company owns and operates 800 acres of oil-bearing lands at Bothwell, in the township of Zone, Province of Ontario. 35 wells put down, having an average depth of 390 ft., and a daily yield of from one to five barrels. Fifteen persons employed.

WALLINGFORD GOLD MINING CO., Limited.

Incorporated 1898. Authorized Capital, $750,000, in shares of a par value of 25 cents.

Officers:

S. F. McKinnon, President, Toronto.
John R. Barber, Vice-President, Georgetown, Ont.
Provincial Trust Company, Treasurer, Toronto.
T. G. Williamson, Secretary, Toronto.

Directors:

J. M. Staebler, Berlin, Ont. | Charles S. Botsford, Toronto.
Fergus Donovan, M.E., Toronto. | Henry Lowndes, Toronto.
Walter C. Archer, Rossland, B.C.

Head Office: MacKinnon Building, Toronto Ont.

Mines Office: P.O. Box 634, Toronto, Ont.

Owns and is developing the Wallingford group, comprising four claims, embracing about 180 acres, and situate about 4½ miles N.W. from Rossland, British Columbia. The development work so far done is on the Wallingford claim and consists of a tunnel driven in at date of report 305 ft. and a shaft down 48 ft.

WALLINGFORD MICA COMPANY.

Organized 1st September, 1893. Invested Capital, $30,000.

Owners:

Edward Wallingford N. A. Belcourt, Q.C., M.P. T. G. Coursolles

Head Office: T. G. Coursolles, Managing Owner, Ottawa.

Edward Wallingford, Perkins' Mills, P.Q., Mine Manager.

Owns and operates a property containing 200 acres of mineral land, situate W½ of lot 16A, and lot 17B, in the 8th Range of the Township of Templeton, County of Ottawa, Province of Quebec. Thirty persons employed.

WANETA AND TRAIL CREEK GOLD MINING CO, Limited.

Incorporated 16th October, 1896. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Directors :

C. O. Lalonde, President.
A. S. Goodeve, Vice-President. D. D. Birks, Secretary.
W. C. Archer. Chas. Bates. A. H. McNeill.

Head Office : Rossland, B.C.

Owns and is developing three claims, Copper Bell, Copper and Copper Glance, situated on the south slope of Lookout Mountain, Trail Creek Mining District, British Columbia. At the end of 1898, development consisted of one tunnel 25 feet, one winze 20 feet, one shaft 28 feet.

WAR EAGLE CONSOLIDATED MINING AND DEVELOPMENT CO., Limited.

Incorporated 1896. Authorized Capital, $2,000,000

Directors :

George Gooderham, President.
T. G. Blackstock. G. A. Cox. W. H. Beatty.
W. G. Gooderham. A. E. Gooderham.

Head Office : E. J. Kingstone, Secretary, Toronto.

Mines Office : J. B. Hastings, M.E., Rossland, B.C.

Formed to acquire from the War Eagle Gold Mining Company, the War Eagle mine in the Trail Mining Camp, British Columbia. It also owns the Crown Point mine in the same district, and the Richmond group, near Sandon, in the Slocan dissrict.

War Eagle.—Shipments in 1898, 42,779 tons, of a net value of $496,395.71; 270 persons employed at date of report. Workings comprise one shaft down 750 feet; three tuunels, aggregating 4,000 feet; drifts, cross-cuts, raises, &c., about 6,000 feet.

The machinery equipment is up to date, and first class in every respect, comprising :—

Boilers :—Two, each 100 h.p.

WAR EAGLE CO—Continued.

Air Compressors:—One Ingersoll-Sergeant, 40-drill capacity; one Rand, 20-drill, and one Rand, 7-drill.

Rock Drills:—20 Ingersoll-Sergeant.

Hoisting Plant:—The electrically driven hoisting plant is designed for a double compartment shaft, 3,000 feet in depth, to lift a load of 8 tons on a single line at an average speed of 750 feet per minute. The drums are 72 in. dia. by 5 feet face, and are of the Cooper patent friction drum type. The motor, furnished by the Canadian General Electric Company, is designed for alternating currents of 2,082 volts. Both drums are loose on the drum shaft and are entirely independent of each other in operation, they may be thrown in and out of gear while the hoist is in motion, either separately or together, or one drum may be lowering while the other is hoisting, or both drums may be thrown into gear and the hoist used as a regular reversible engine, one load being hoisted while the empty cage is being lowered. The whole machine is of very massive design and calculated to stand the heaviest duty. Its weight, including the electric apparatus, is about 60 tons.

Directors' Report.

(*Submitted 15th November*, 1898.

The Directors have much pleasure in again meeting the shareholders of the War Eagle Consolidated Mining and Development Company, Limited, at this, the Second Annual General Meeting of the Company.

Submitted herewith is a statement of the accounts and a report on the mine, the former being brought down to the 30th of September, and the latter to the 31st October.

We trust that both will be found so complete as to call for little by way of comment or explanation.

Freight and Treatment of Ores.

At the last Annual Meeting the Directors were compelled to announce that they

"Having found it impossible under existing conditions to obtain any reduction in the cost of freight and treatment of the Company's ores, and feeling that the present rate could not be long maintained in the face of improving railway facilities and the competition likely to ensue thereon, determined in July last to stop shipping altogether, and to devote their energies to putting the mine in shape to ship freely when rates were satisfactory."

It is gratifying to be able to state that this policy of delay has been amply justified by a subsequent reduction in the rate of freight and treatment from a maximum charge of $11.00 to $7.50, with a further rebate of 50 cents per ton, provided the Company ship an average of 175 tons per day for

WAR EAGLE CO.—Continued.

six months continuously, which it has so far been able to do without difficulty, notwithstanding the limited capacity of its machinery.

In reference to the steel gallows frame and the air compressing and hoisting plants, with their accompanying electric motors (to which the general manager, Mr. J. B. Hastings, has referred more particularly in his report), the Directors have to say, that while it may have appeared to the shareholders that some unnecessary delay has taken place in the installation of these plants, the Directors consider that the fact that this is the first time Canadian workshops have been called upon to turn out so large a mining plant, ought in a measure to be accepted as a satisfactory explanation. In addition to this it has been found that the transportation facilities in a comparatively new camp like Rossland, were inadequate to the rapid handling of such massive pieces of machinery over a mountain road which had to be constructed for the purpose between the terminus of the railway and the top of the War Eagle hill.

The West Kootenay Power and Light Company have installed a plant capable of delivering in Rossland from five to fifteen thousand horse power, and being prepared not only to sell the same at a price below the cost of steam power, but to agree to make a further reduction as the price of coal came down, the Directors felt justified in adopting electricity as a motive power, especially in view of the fact that this form of power has been found to give good satisfaction in many mining camps throughout the United States. It is only fair, however, to say that so far as the Directors are advised, in no place have motors of such capacity been installed, and therefore, as regards the size and capacity of the motors, the undertaking is experimental. Every effort has been made by the Canadian General Electric Company and by the West Kootenay Power and Light Company, as well as by our own engineers, to make this experiment a success.

Should it prove such, it will not only effect a material reduction in the cost of operating the mine, but will afford a stimulus to the development of other mines in the vicinity, which are now awaiting the result of the experience of this Company before installing suitable mining plants.

EXPLORATION AND DEVELOPMENT.

As might be expected, the exploration and development work which had proceeded with great rapidity, and with the most gratifying results, from January, 1897, down to May of the present year, could not be kept up at the same rate after the Company commenced shipping on a scale that taxed the capacity of its machinery. This however, is unimportant, in view of the fact that the mine had already been developed in excess of its requirements, and that the amplitude of the new plant will enable the Company at all times

WAR EAGLE CO.—Continued.

hereafter to keep its exploration and development work well ahead of its requirements.

The Directors are fully alive to the necessity of making every effort to lower the cost of mining and reduction of ores in view of the fact that the production of the mine increases in inverse ratio to the cost. Whether the policy of the Canadian Pacific Railway in operating its own smelters for the purpose of securing the reduction of ores at cost, will procure ultimately for the miner as low a rate as would be secured by open competition, remains to be seen. In the meantime it is gratifying to know that it continues to be the policy of that Company to smelt at cost, and the Directors feel that it is in the interest of the War Eagle Company to give this experiment a full trial before considering the propriety of investing a large amount of capital in the construction and operation of a smelter.

It will be observed from the statement of accounts that the capital stock has been increased since the last meeting from $1,650,000 to $1,750,000, being an increase of $100,000. This stock realized the handsome sum of $270,000, which has enabled the Directors to wipe off the obligations of the Company, including most of the cost of the new plant, leaving, with the surplus earnings, $135,334.99 on hand.

In conclusion, the Directors can only again express their high appreciation of the judgment and untiring energy their manager, Mr. John B. Hastings, M.E., F.G.S.A., has continued to bring to the administration of the Company's affairs, in which he has been ably assisted at the mine, as will be seen from his report, by Mr. John Fitzwilliams and Mr. Chas. V. Jenkins.

At the head office Mr. E. J. Kingstone has discharged his duties in a faithful and efficient manner.

GEORGE GOODERHAM,
President.

FINANCIAL STATEMENT FOR TWELVE MONTHS ENDING 30TH SEPT., 1898.

Assets.

Mines and mineral claims		$1,650,000 00
Cash, on hand and in banks—		
Bank of Montreal, Rossland	$30,784 51	
Bank of Toronto, Toronto	104,462 37	
On hand	88 11	
		135,334 99
Mines supplies and stores on hand as per inventories		14,556 90
Permanent improvements		6,536 25
Hoist, compressor and other plant		40,049 04
Furniture of offices		669 20
Invested in "War Eagle" Hotel		14,400 00
Debts receivable		450 85
		$1,861,997 23

WAR EAGLE CO.—Continued.

Liabilities.

Capital Stock paid up	$1,750,000 00
Dividend No. 5, payable 15th October, 1898	26,250 00
Profit and Loss	85,747 23
	$1,861,997 23

PROFIT AND LOSS.

Dr.

To balance September 30th, 1897		$40,779 61
" Cost of mining and developing—		
War Eagle Mine	$210,813 63	
Crown Point Mine	12,036 31	
Richmond Group	503 91	
" Pender damage suit	1,301 48	
" Other legal expenses	3,798 56	
" Toronto office expenses	1,528 12	
" Travelling expenses	737 50	
" General expenses	2,894 55	
" Interest and exchange	8,439 93	
" Directors' Compensation	10,000 00	
		252,053 99
" Indebtedness of The Crown Point Gold Mining Co. assumed		20,013 14
" Dividends Nos. 1 to 5	$127,250 00	
" Unappropriated profits	83,747 23	
		210,997 23
		$523,843 97

Cr.

By net proceeds of ore sales (five months only)	$353,269 52
" transfer fees	574 45
" Premium from sale of 100,000 shares of capital stock	170,000 00
	$523,843 97

MR. HASTING'S REPORT.

"The following is my report for the past year upon the company's mining properties, the accounts and cost sheets till September 30th, and the condition of the mines till October 31st.

WAR EAGLE

Development for the Year.—Since October 1st, 1897, date of my last annual report, up till October 1st, 1898, the following work has been done at the costs specified, exclusive of assaying and ore sorting, properly chargeable to ore production of headings:

3,480	feet of	tunnelling,	average cost per foot,	$21.15.
451	"	raising,	" "	29.78.
185	"	sinking,	" "	96.25.
4,116	feet,	Total.		

WAR EAGLE CO.—Continued.

From driving these headings, 2,316 tons of ore were produced and shipped.

Total Headings on the Mine.—The work done during the past year added to former headings, makes a total of :—

Tunnelling	8,304 feet.
Raising	851 "
Sinking	665 "
Total	9,820 feet.

This does not show 250 feet of the Main working shaft timbered through the stopes, from the 250 feet level to the surface.

Ore Extraction for the Year.—As you know the smelting conditions were such that regular stoping in the mine and ore shipment was not begun during the year until May. Besides the ore just mentioned, there was produced and shipped from stopes 26,559 dry tons at an average cost per ton of $3.24, the total shipments for the year aggregate 28,875 tons Average gross value, $20.01. Total smelters' gross value, $570,744.23.

The "Gross Market Value" per ton of the ore in metals was: gold, $18.90; silver, $1.15½; copper, $3.46½; total, $23.52.

Total Product of the Mine.—The following table gives the total production of the mine, the gross market value is the actual value of the gold, silver and copper contained in the ore. The gold at $20.60 per oz., silver at New York quotations, and copper at New York price for casting. The difference between this column and "Smelters' Gross Value" is really a smelting and marketing charge, and the amount is shown under the heading of "Indirect Smelting Charge."

PRODUCT OF THE WAR EAGLE MINE.

Charges and Values per Ton.

Year.	Net Value.	Direct Smelting Charge.	Smelters Gross Value.	Smelting Charge Indirect.	Actual Total Smelting Charge.	Gross Market Value.
1894	24 41	12 50	36 91	6 63	19 13	43 54
1895	29 05	10 87	39 92	7 41	18 26	47 33
1896	21 29	9 89	31 18	5 79	15 68	36 97
1897	13 35	9 96	23 31	4 33	14 29	27 64
1898	12 51	7 50	20 01	3 51	11 01	23 52

WAR EAGLE CO.—Continued.

CHARGES AND VALUES PER ANNUM.

Year.	Net Tonnage.	Net Value.	Direct Smelting charges	Smelters' Gross Value.
1894	46 93	$1,145 55	$586 62	$1,732 17
1895	9,980 93	289,951 36	108,486 32	398,437 68
1896	8,920 29	189,944 38	88,222 41	278,166 79
1897	7,406 30	98,896 19	73,752 42	172,648 61
1898	28,523 00	356,843 98	213,900 25	570,744 23
	54,877 45	$936,791 46	$484,948 02	$1,421,729 48

Year.	Indirect Smelting Charges.	Total Smelting Charges.	Smelters' Gross Value.
1894	$ 321 39	$ 908 01	$ 2,053 56
1895	73,925 83	182,412 15	472,363 51
1896	51,611 07	139,833 48	329,777 86
1897	32,034 22	105,786 64	204,682 83
1898	99,991 05	313,891 30	670,735 28
	257,883 56	$742,831 58	$1,679,613 04

No. 1 Raise Stopes. – This stope fully justified my expectations, from the map it will be seen that it is not entirely gone, but the remaining areas are lower grade, the total net product of the stope during the year was 9,030 tons at $21.34, smelters gross value, 192,700.00, deducting transportation and treatment, net value $124,975.00. As the area extracted including No. 1 Raise, from which 170 tons were shipped, is 8,424 square feet, and the ore averages 9 cubic feet to the ton, the average width of the ore was 10 feet.

West Stope—The shipment for the year was 3,813 dry tons at $20.45, $77,974.85 gross value, deducting smelting and transportation charges, $49,-378.35 net value. The area extracted was 4,140 square feet, after deducting

WAR EAGLE CO.—Continued.

530 tons from the year's product, as this amount was broken in the stope at the beginning of the year, at 9 cubic feet to the ton an average width of 7 feet is found. The value and width fairly represent the present condition of the stope.

West Raise Stopes.—We only drew on the West Raise Stopes for 224 tons during the year, and the work done was to break down about 1,000 tons of ore and leave it in the stope. The 224 tons averaged $23.40, $5,241.60 gross value, deducting transportation and treatment, $3,561.60 net value. My last year's report said they contained, as far as worked, 6 ft, of continuous ore. We are now shipping heavily from here, the October output being 1,100 tons, gross value $24,200.00.

375 *East Stopes.*—This ground has materially improved during the year. The best showing before that period was 5 ft. of $20.00 ore. The stopes, inclusive of the level, cover an area of 4,176 square feet, from which 4,513 tons have been shipped this year and 90 tons last year, indicating 9¾ ft. as the width of ore. This 4,513 tons averaged $19.80, $89,357.40 gross value, deducting transportation and smelting charges, $55,509.90 net value.

Winze Stopes.—The Winze Stopes are really a part of the 375 East. The area stoped is 2,844 square feet, the production 3,418 tons, which at 9 feet to the ton gives 11 feet width of ore. The value per ton averaged $24.35, $83,228.30 gross value, deducting transportation and smelting charges, $57,593.30 net value.

375 *West Stopes.*—This ground has yielded lower in value than the rest of the mine, but there is such a large area left, and especiallly the rich ore along the bottom of No. 2 level, that I hope during the ensuing year the average value will greatly increase. The area stoped is 3,420 square feet, yielding 2,926 tons of shipping ore, at 9 feet per ton, giving width of 8 feet. The average value was $13.80, $40,378.80 gross value, deducting transportation and smelting charges, $18,433.80 net value.

500 *Foot Level.*—This tunnel has been continued 450 feet to the shaft and 250 feet further, making it at present writing ½ mile long from mouth to face. The tunnel was run on hanging wall without finding ore of value, so 200 feet east of the shaft a cross-cut was put to foot wall, proving the vein was 42 feet wide, with 32 feet of mixed ore. A careful sample of the west side of this cross-cut in 5 foot sections gave 20 feet of $10.00 ore 12 feet of $25.00 ore, total values. A Raise has been made from this cross-cut to the 375 East level. The whole raise is in ore of varying value, it started in good ore, the first 140 tons shipped assayed $19.88 gross value; the last 259 tons $6.74. By special arrangement with smelter we were allowed $1.74 per ton on this lot. As the head of the Raise comes out north of the good ore on the 375 East level, it is probable the main body of rich ore is south of the Raise.

WAR EAGLE CO.—Continued.

The tunnel west of the shaft has been in low grade ore; 158½ tons shipped as broken, assayed $13.18; giving, by special smelting terms, $8.18, and 451½ tons shipped as broken from other portions, assayed $16.40.

East Raise.—This working did not discover any bodies of ore.

South Drift.—Nothing has been done here for the year and the ore body 50 ft. long, 30 in. wide, assaying $20 gold per ton, with the same width and values in the face, remains intact. This drift was run 500 ft. south and an ore body 40 ft long, 2 to 10 ft. wide, encountered, which produced, when driving through it, 192 tons, assaying $18.47, $3,546.24 gross value, and from stope above tunnel 326 tons assaying $14.85, $4,841.10 gross values. A total of 518 tons, averaging $16.18, $8,387.34 gross value, deducting cost of transportation and smelting, $4,502.34 net value. There are yet 50 tons of the best ore piled in the tunnel. The ore body gave out going up, but is in bottom of tunnel.

625 East.—In running this drift 90 ft. easterly on the vein from the south cross-cut from the main shaft on the 625 ft. level, 347 tons of rock broken in driving, shipped without sorting, assayed $14.10, $4,892.70 gross value. No drifting has been done west on the vein at point of intersection by the cross-cut; it averaged 6 ft. wide and $25.00 in value.

Ore Reserves.—There are large bodies of ore ready for extraction, of which the aggregate will run lower in value than the past product of the mine. I place it at 100,000 tons, smelter's gross value $1,700,000; with the usual amount of development and shipping what could be conveniently stoped, I would again place the cost of extraction at $3.25 per ton. The ore estimated as available is between the 250 ft. level and the bottom of the mine.

Surface Improvements.—The present plant of compressor and hoist proved quite insufficient for our needs during the past year and the development has been slower than with a more complete plant. The new plant, consisting of an electrically driven double drum hoist with cayacity for lifting 16,000 lbs. at 750 ft. per minute, a 24¼ x 48 so-called 40-drill compressor and a 20 horse power blower, will be in operation by the first of the year.

The new steel gallows frame, 100 ft. high from collar of shaft to centre of sheave, and iron shaft house 185 ft. long, 40 ft. wide, 120 ft. high, with large ore-bin capacity, crusher and sorting belts, is practically completed.

A water and drainage system, containing 6,000 ft. of pipe, has been put in and wooden tanks built to hold a domestic and fire supply of 75,000 gallons, 45,000 with 140 to 250 ft. pressure above the buildings.

Commodious and substantial general offices, assay offices and stables have been built; the War Eagle Hotel Company has erected handsome board and bunk houses for our employees. Easy waggon roads have been built from the railroad and the timber to the main shaft.

WAR EAGLE CO.—Continued.

Development for the Year.—The following are the most important features: The making of a main incline shaft of the No. 2 winze by carrying the latter to the surface at an incline of 58° from the 250 ft. level upwards and downwards in triple compartment, at 64°. The 375 east and west drifts have been extended and stulled for stoping, and raises made from them to the 250 ft. level. A raise No. 6 has also been made from the 500 ft. level to the 375 ft., and a raise No. 5 in the east end of the mine from the 500 ft. level to the 250 ft. Large pockets have been put in on the 500 ft. and 625 ft. levels to load the skips from.

Crown Point.—A fair amount of exploiting was done on the mine above the main tunnel. The large surface ore body was found to gradually pinch out, and in view of the expenditures on the War Eagle, with your permission, I discontinued prospecting on the claim.

Richmond Group.—The necessary assessment work has been done on the claims, and they have been surveyed and advertised for Crown Grant, which I believe will be immediately issued. Acting on your instructions, the company's holdings have been increased by purchase of ¼ of the "Summit," a contiguous claim, of which it now owns ½; and the purchase of the whole of the "Mineral Hill" and "Eureka," also contiguous claims, these last having the Slocan Star vein for about 800 ft.

Costs of Mining.—I believe these will be found to be minutely and comprehensively explained, as far as may be, in suitable compass by the tables forming part of this report.

JOHN B. HASTINGS.

COMPARATIVE STATEMENT OF COSTS.

Showing average cost per foot of work, and extraction per ton of ore for period from October 1st, 1897, to September 30th, 1898, as compared with costs for period from January 20th to September 30th, 1897.

Nature of Work.	Period.	Work Accomplished.	Cost per Foot.
1. Tunnelling, Drifting, etc.	Oct. 1 to Sep. 30, '98.....	3,840 ft.	$21 15
	Jan. 20 to Sep. 30, '97.....	2,303½ ft.	20 11¾
2. Raising	Oct. 1, '97, to Sep. 30, '98..	451 ft.	29 78
	Jan. 20 to Sep. 30, '97.....	421 ft.	30 33
3. Sinking.....	Oct. 1, '97, to Sep. 30, '98..	185 ft.	96 25
	Jan. 20 to Sep. 30, '97.....	175 ft.	92 28¾
4. Ore extraction	Oct. 1, '97, to Sep. 30, '98.	26,559 tons.	3 24
	Jan. 20 to Sep. 30, 97.....	4,810¾ tons.	3 24¾

WAR EAGLE CO.—Continued.

Exclusive of cost of assaying and ore sorting in tunnelling, drifting and sinking, which is properly chargeable to the ore produced from these headings.

NUMBER AND WAGES OF EMPLOYEES ON WAR EAGLE AND CROWN POINT MINES.

These have averaged, at 358 days to the year, 144, exclusive of office force and boarding house employees, with daily wages of $3.21½. The list comprises the following :—

Miners	74⅓
Car men and shovellers	22½
Timber men	7
General labor (foreman, engineers, machinists, blacksmiths and helpers)	31⅔
Surface laborers	8½

TABLE OF MINE COSTS FOR TWELVE MONTHS ENDING SEPT. 30TH, 1898.

	Work Accomplished.			Ore Extraction
	Sinking.	Raising.	Drifting.	
Total No. of feet	185	451	3,480	.....
Tons of ore stoped	.....	.....	.....	26,559
AVERAGE COST FOR				
Drilling	$43 42	$11 91	$8 05	$1 23
Tramming and shovelling	3 22	3 10	2 83	46
Timbering	8 03	2 73	02	24
Hoisting	4 35	17	38	04½
Smithing	5 41	1 43	1 11	13¼
Ore sorting	.....	40	14	02¾
General labor	6 84	2 16	1 78	19
Air	6 52	1 89	1 48	17
Candles	97	37	28	03½
Oil and waste	27	09	06	01
Explosives	4 03	2 26	2 25	23½
Drills and machine fittings	1 61	49	35	04¾
Mine supplies	1 53	41	31	05
Stable expense and teaming	06	02	01	00¼
Assaying	01	25	25	06¼
Surveying	98	04	01	00¾
Salaries	3 73	1 22	97	13¾
Office expense	42	12	11	01
Legal expense	27	03	08	00¼
Lumber expense	26	20	17	00½
General expense	95	30	25	04
Depreciation of plant and machinery	3 38	84	65	10
Total cost per unit	$96 26	$30 43	$21 54	$3 24

WASHINGTON MINING CO., Limited.

Re-registered in British Columbia, 22nd February, 1898. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Officers:

J. Lynch Montgomery, President.
A. E. Jefferson, Vice-President. Ralph L. Clarke, Secretary.
James L. Montgomery, Treasurer.

Head Office: Ralph L. Clarke, Secretary, Marine Bank Building, Spokane, Wash.

Canadian Office: Kaslo, B.C.

The property is situated near the Town of Kaslo, Slocan Mining District, Province of British Columbia. Vein from 3 to 12 feet worked. Mr. Carlyle, in his report, says:—"In the upper tunnel, No. 1, 77 feet long, there was considerable mill ore, but most of the ore came from tunnel No. 2, 200 feet below and 275 feet long, over which was a large stope 150 feet long and 30 feet high, with a good quantity of concentrating ore in sight, which on being broken was sent down to tunnel No. 3, 300 feet long, in which the ore-chute is much smaller and completely cut off at the face by a fault not yet explored. From the mouth of this tunnel-level the ore passes down through a chute 180 feet long, to a 3-rail gravity tramway, 1,450 feet long, which leads to the chute down to the strong log ore-bins of the concentrator, where an excellent waggon road—one of the best seen in West Kootenay—three miles long, runs to McGuigan's Siding on the K. & S.R.R.

WATERLOO MINING AND MILLING CO., Limited.

Registered 29th October, 1898. Authorized Capital, $100,000, in 1,000,000 shares of a par value of 10 cents each.

Directors:

J. Monaghan. Ed. O'Shea. G. M. Casey. J. D. Farrell. W. J. Estep.

Head Office: W. G. Estep, Secretary, Spokane, Wash.

Canadian Office: Thomas Graham, Manager, Camp McKinney, B.C.

The Company owns and is developing the Waterloo mineral claim, at Camp McKinney, Osoyoos Mining Division, British Columbia. The vein is reported to be well defined and averages in width about 6 feet. Two shafts have been sunk on the vein, 390 feet apart, the west or No. I 50 feet, and No. II 70 feet.

WAVERLEY HYDRAULIC MINING CO., Limited.

Incorporated 14th July, 1879. Authorized Capital, $100,000, divided into 1,000 shares of a value of $100 each.

Directors:

J. B. Nason.

Wm. Forrest. | W. A. Jones.
Jno. Bibby. | Andrew Kelly.

Head Office: James Stone, Secretary, Barkerville, B.C.

This Company owns 110 acres in fee simple, and operates an alluvial claim at Grouse Creek, in the Barkerville Division of the Cariboo Mining District, in the Province of British Columbia. During 1898 good progress was made in steadily improving ground. Just before the yearly washup, a large slide occurred, permitting a clean-up of only a portion of the season's piping.

WAVERLEY MINE, Limited.

Registered 1897. Authorized Capital, £100,000 in shares of £1 each.

Directors:

Col. T. A. Anstey. J. S. Bridges. F. Callow Hole. John King.
John H. Robertson. E. C. de Segundo. Col. H. Fludyer. E. Grant Goven.

Advisory Board in Canada:

John Grant. J. M. Kellie, M.L.A.

Head Office: R. Stanley Williams, 16 Copthall Avenue, London, E.C.
Canadian Office: Revelstoke, B.C.

Formed to acquire the Waverley mineral claim, being on a group of mineral claims known as the Albert Canyon and Downie Creek group, situated at the head of the north fork of the Illecillewaet River and Downie Creek in the West Kooteney District, British Columbia.

At the ordinary general meeting held in July, 1899, the chairman reviewed the operations as follows:

Up to the time of my visit to the mine last year it was believed that the quantity of ore available was very much larger than has hitherto been proved, and the chief question under consideration was the best way to bring this ore to market. With a view to investigating the routes proposed from time to time for a railway between our mines and Revelstoke—(1) by

WAVERLEY MINE—Continued.

the Albert Canyon route and (2) by way of Downie Creek and along the Columbia River—I obtained the services of Mr. Walkem, of the Canadian Pacific Railway, and that gentleman accompanied me on my journey by both routes. From the mines to the Columbia River, at the point where the Downie Creek enters that river, the estimated distance is 30 miles, and from the mouth of Downie Creek to the Canadian Pacific Railway at Revelstoke about 40 miles, making a total distance of 70 miles. This route is therefore considerably more than double the length of that on which we have built our wagon road from the mines to the Canadian Pacific Railway at Albert Canyon, namely, by way of the north fork of the Illecillewaet. Before taking any steps towards recommending the construction of a permanent line I considered it imperative to obtain as good a local technical opinion as possible on the mine after the work done in driving the tunnel to cut the lode at the depth of 500 ft. from the outcrop on the mountain side. As stated in the report, that opinion, based on the aspect of the mine at the time, was held by me to be unfavorable, and upon my cabling this to your directors they then decided to obtain the best expert opinion available on its prospects. Mr. Cox (of Messrs. Bainbridge, Seymour & Co., the company's consulting engineers) was selected and proceeded to British Columbia to make the necessary examination. We visited the mines together. It was found that the appearance of the mine had in the meantime—that is, since the report of the local expert—considerably improved, and certain work which Mr. Cox recommended for its development has since been vigorously prosecuted. A recent report from the manager shows that this work has revealed a more favorable aspect of affairs than is mentioned in our printed report just issued. The ore body exposed in No. 2 vein at the 250 ft. level is 90 ft. long and 3 ft. wide, of a value of about $22.50, or equal to about £4 10s. per ton. The mine superintendent, who is exceedingly cautious in his views, gives the very conservative estimate of 3,951 tons of the above value as being actually proved from this vein, giving a total gross value of $88,000, or over £18,000. It is fair to assume that more ore exists between the outcrop on the mountain side at No. 1 level, where the ore was first struck, and the 250 ft. level, 250 ft. below that point. I may here mention that the body of ore first opened up, and which led to the mine being taken over by the company, was a very large and rich one, and that there was then no reason to doubt its permanency. From our subsequent experience we have concluded that the vein deposits are in and out deposits—that is, the veins vary from a few inches to several feet. If the vein first cut had remained of the same width and value we should have had a mine of fabulous richness, and we can only trust that we shall from time to time cut pockets of a like richness, if not veins of a similar size and richness. The quantity of ore so far actually proved to exist, however, is not sufficient to warrant the expendi-

WAVERLEY MINE—Continued.

ture necessary for the construction of a line of tramway to Albert Canyon, nor can the unconcentrated ore be at present sent to market with any expectation of remunerative returns. In the circumstances it may be found desirable to suspend operations temporarily until the Tangier mine is further developed, when it is hoped that sufficient ore will have been exposed to warrant the amalgamation of the two companies and the expenditure required to erect the concentrator, and perhaps to improve the present wagon route. It is believed that in any case the concentrated ore could be brought down at a profit to Albert Canyon by pack train. The developments on the Nos. 1 and 3 veins have hitherto shown that the rich ore seems to occur mainly in pockets on the veins, and at any time we may come, in any of the veins, on other deposits of rich ore similar to those already intersected and those found on the outcrop. Mr. Varden's report may be expected in a few weeks time and the result will be communicated to you. There are probably various points on which you wish for information, and I shall be happy to answer any questions to the best of my ability. As regards the development of the mine, and the results which have been obtained, I will ask our consulting engineer to reply to any questions you may ask, and I may add that we regret that there has been a delay in issuing the report, but it has been quite impossible to do so before we were able to extricate our accounts from those of the other companies, and get them over from the other side. I now beg to move the adoption of the report and accounts.

Mr. S. H. Cox said at the present time very little work had been done on the property. There was a drive entered which ran out of the ore, and a small winze sunk ; but the work that was started in the first instance was a cross-cut tunnel some 86 ft. lower down the hill, and this cross-cut intersected a body of ore, and by a very curious coincidence the point at which this ore was intersected was one at which a spur of ore ran off from the wall of the lode, and was continued for some 45 ft. along the cross-cut. Then there was a blank space of some 9 ft. or 10 ft., and there ore was again found, which was poor. Altogether some 72 ft. had been driven through, which carried ore, and the assumption at that time was that the lode was some 70 ft. in width. Work was continued along the wall, driving in each direction. In one direction the ore pinched out entirely, and in the other a series of veins was discovered that ran from 6 in. up to 2 ft. or 3 ft. in width, and the rest of the ground, as far as was known up to the present time, was barren. At the same time it did not at all follow that subsequent work might not develop ore in this block of ground. It was decided to put in a tunnel lower down the hill, and it was started 366 ft. below. This cross-cut was carried right in, and again intersected the lode. There was some good ore found there, but very, very little, and it proved practically a barren lode. Drives were started at what were known as the 150 ft., the 250 ft., and the

WAVERLEY MINE—Continued.

300 ft. levels. At the 150 ft. there was a very good-looking lode indeed in the face, some 4 ft. 6 in. in width, averaging about $40 to $50 to the ton in the face. Since then the 250 ft. level had been opened up, and some 90 ft. length of ore had been reported by the manager, which was about 3 ft. wide on the average. It had gone as high as 5 ft., and the manager stated that the average assay value all through was $22.50 per ton. The next level below this—the 350—had also cut the vein; but it was reported as very poor at the present time. According to the statement of the manager there was some $88,000 worth of ore exposed, so that the work done was certainly justified.

WELLINGTON COLLIERY CO.

Owners:

Robert Dunsmuir & Sons, Wellington, B.C.

General Manager—John Bryden. General Overman—Alexander Sharp.

Head Office: Wellington Colliery, Wellington, B.C.

The principal mines of this old esiablished company are situated about 6 miles to the north-west of Nanaimo, and 3 miles from Departure Bay, which Bay is connected with Nanaimo Harbour by Exit Passage, both being under the same Customs and Harbour authorities.

No. 1 Shaft:—William Bailey, Overman.—This pit, distant about a mile from the Bay, was first sunk, in a small way, about 25 years ago, by the late Hon. Robt. Dunsmuir. After reaching the coal, no further work was done until 1891, when it was again started, the shaft being enlarged to 8 x 18 feet and substantially timbered. The coal was found at a depth of 300 feet from the surface, the seam being about 3 feet thick.

The mine is worked by a slope from the bottom of the shaft, with levels therefrom to the westward. The roof of the seam is tender. The ventilation is good, there being 8,000 cubic feet of air per minute for 30 men and 2 mules. The shaft is the "intake," the "return" being the fan shaft at No. 5 shaft.

No. 3 Shaft:—James Sharp, Overman.—This shaft reached the coal at a depth of 210 feet, at which point a slope was driven, from which levels were run off. At the present time, only pillars are being worked, and these are nearly finished.

The main shaft is divided by a partition, one compartment serving as an "intake," and the other as an "upcast." A home-made Guibal fan, 39 x 10 feet, is used, driven by a 14 x 60-inch engine. The total volnme of air in

WELLINGTON COLLIERY CO—Continued.

circulation is 33,000 cubic feet, distributed as follows: To No. 2 Level, 6,050 cubic feet, supplying 19 men and 4 mules; to No. 3 Level, 9,720 cubic feet, supplying 20 men and 3 mules, leaving 17,230 cubic feet to be accounted for by leakage, which passes by doors and curtains through the old workings.

No. 5 Shaft:—David Wilson, Overman.—This is an important mine, well laid out and kept in good order, and is under excellent management. The shaft is 265 feet deep from the bottom of which is a slope, with levels and inclines. The seam is from 7 to 10 feet thick, and its mode of occurrence is such that a very large percentage of the coal left in the pillars and as roof in the stalls can eventually be recovered. Considerable of the mining here has been "long wall" work, which has been done in a creditable and miner-like manner.

Ventilation is effected by means of a 14 x 5 Guibal fan, drawing up through the No. 5 fan shaft, which serves as an "upcast," not only for these workings but also for No. 1 shaft workings, as already described. The total volume of air travelling in the fan shaft is 124,000 cubic feet per minute, which includes 8,000 cubic feet taken from No. 1 shaft workings, leaving 116,000 cubic feet of air for these workings, which is split up as follows:—North-west level, 47,500 cubic feet for 75 men and 12 mules; east side, 18,000 cubic feet for 14 men and 1 mule; west side, 19,500 cubic feet for 20 men and 2 mules; side slope, 30,000 cubic feet for 30 men and 2 mules; leakage, 1,000 cubic feet.

The shaft head arrangements, hoisting engine, boilers, air compressor, and fan are good, and are kept in excellent order. There being a siding from the E. & N. Ry. right up to the bunkers coal can be loaded directly into the railway cars.

No. 6 Shaft.—This mine is about a mile to the south of No. 5 shaft. The pillars near the shaft bottom were taken out, and only about a month's work remained to finish.

Machine Shops, Etc.—The machine and general workshops are well fitted up with first-class lathes and modern mechanical appliances, and are equal to all demands of an extensive colliery.

Shipping Facilities.—From the north shore of Departure Bay, three shipping wharves with T heads project into deep water, over 27 ft. at lowest tide, and from these wharves the Wellington coal has been shipped for many years.

The main wharf is equipped with a "Link Belt Conveyor," about 3 ft. wide, which receives the coal from a hopper into which the cars are dumped, and conveys it on an incline to a chute, down which it slides into the hold of the vessel. The lower end of the conveyor and chute can be adjusted by blocks and falls to suit the state of the tide and height of the vessel's deck.

WELLINGTON COLLIERY CO.—Continued.

The usual rate of loading is about 150 tons per hour, but it can be worked up to 200 tons.

Vessels waiting find a well-sheltered anchorage in the lee of Newcastle Island, and can discharge their ballast into deep water.

The colliery railway is 36 inches gauge. The cars, having a capacity of about 3¼ tons, are brought from the mine down a steep grade by suitable locomotives. Bunkers are provided at the rear end of the wharf for storage. There is also a coal washer, well supplied with fresh water.

OFFICIAL RETURNS OF OUTPUT.

	Output. Tons.	Exported. Tons.	Home Sales. Tons.
1889	273,383	197,510	67,524
1890	174,496	106,281	68,769
1891	345,182	282,452	54,724
1892	200,370	238,400	.....
1893	337,334	295,212	41,121
1894	376,956	304,852	50,165
1895	336,906	294,878	51,084
1896	339,896	235,916	103,129
1897	297,611	211,662	91,246
1898*	315,738	232,642	.....

* Estimated only; no official figures given for the period.

Output of fire-clay, 1893, 642 tons; 1894, 145$\frac{5}{20}$ tons; 1895, 664 tons; 1896, 286 tons; 1897, 405$\frac{14}{20}$ tons.

WENTWORTH GYPSUM CO., Limited.

Incorporated by an Act of the Legislature of Nova Scotia, 19th May, 1891.
Authorized Capital, $200,000, in 200 shares of $1.00 each.

Directors:

Clarence H. Dimock, Manager and Treasurer.
E. Norman Dimock, Secretary.

Head Office: Windsor, Nova Scotia.

Formed to search and prospect for, to quarry, mine, work, win, manufacture and prepare for use and sale by any process, and carry, move, sell, ship and deal in gypsum. plaster of paris, lime, limestone, building stone, etc., in the Province of Nova Scotia and Island of Cape Breton. Owns a property containing about 1,000 acres at Wentworth, in the Township of Windsor, Hants County, Province of Nova Scotia. Two hundred persons employed. Owns and operates a line of railway, locomotives and rolling stock, connecting with shipping wharves about two miles distant from quarries. The equipment comprises two cable derricks, each having a span of 1,025 feet and a capacity of 500 tons per day, electric rock drills and other plant. The annual output is about 100,000 tons.

WESTERN CANADIAN MINING AND DEVELOPMENT CO, Limited.

Incorporated 12th February, 1897. Authorized Capital, $1,200,000, in shares of a par value of $1.00.

Office: Hugh A. Brown, Sec.-Treas., Revelstoke, B C.

Owns and is developing certain mineral properties at Trout Lake, West Kootenay, British Columbia, and on the Lake of the Woods, Ontario.

WESTERN ONTARIO GOLD FIELDS, Limited.

Offices: A. G. Freeman, Sec., Finsbury Circus Buildings, London, E.C.

Registered on the 12th January, 1898, to acquire certain mining properties in Western Ontario. Authorized Capital, £50,000, in shares of £1

WEST KOOTENAY MINING CO., Limited.

Incorporated 12th February, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Head Office: Charles F. Caldwell, Kaslo, B.C.

Owns and is developing a group of four claims on Lookout Creek, four miles from Kootenay Lake, near Davie, British Columbia.

WEST LE ROI MINING CO., Limited.

Registered 1898. Authorized Capital, £500,000, in shares of £1.

Head Office: 15 Austin Friars, London, E.C.

Canadian Office: W. A. Carlyle, M.E., Rossland, B.C.

This is a subsidiary company of the British America Corporation, Limited, formed to acquire and work a portion of its properties in the Trail Mining District of British Columbia.

WEST MINE SYNDICATE.

Mine Office: Herbert Shear, Silver Mountain, via Port Arthur, Ont.

Owns and is working a group of silver properties, comprising about 300 acres, on Silver Mountain, Thunder Bay District, Ontario. Well equipped with machinery, including a battery of 10 stamps.

WESTMINSTER MINING CO. OF TORONTO, Limited.

Incorporated 1898. Authorized Capital, $195,000, in shares of $1.00 each.

Directors:

S. R. Wickett, Toronto, Ont. | W. M. Wickett, Toronto, Ont.
John Wickett, Toronto, Ont. | C. R. Reed, Toronto, Ont.
S. M. Wickett, Toronto, Ont.

Formed to carry on in all their branches the operations of a mining, milling, reduction and development company.

WEST ONTARIO VENTURE SYNDICATE, Limited.

Offices: Frederick Freeman, Secretary, 15 George St., Mansion House, London, E.C.

Registered 25th May, 1897, to acquire and turn to account mines, options, &c., in Western Ontario. The Authorized Capital is £5,000, in 5,000 shares of £1 each; 597 shares have been issued.

WEST WELLINGTON COAL CO., Limited.

Incorporated 1896. Authorized Capital, $500,000.

Directors:

Edward H. Heaps. William Sulley David E. Marshall.

Head Office: 506 Cordova Street, Vancouver, B.C.

Formed to purchase the coal property known as the West Wellington Coal Mine lately owned and operated by Mr. D. Gordon, and also to buy, sell or lease other coal lands in British Columbia; prospect for coal with diamond drills or otherwise; open up and operate coal mines, etc.

Name of seam, West Wellington; 5 to 6 feet worked; opened by slope; 2 levels.

Wooden tramway 6½ miles to Nanoose Bay.

Value of plant, $2,000.

WHITE BEAR GOLD MINING AND MILLING CO., Limited.

Organized in the State of Washington, and registered in British Columbia, 27th November, 1896. Authorized Capital, $2,000,000, in shares of $1.00; in 1898 the capital was reduced to 3,000,000 shares of a par value of ten cents.

Directors:

Charles P. Oudin, President.

John Y. Cole, Vice-President. Fred. J. Stewart, Secretary-Treasurer.

Hon. J. E. McDougall, Toronto.
Chas. Liftchild, Spokaue, Wash.
D. Morice, Toronto.
Rev. J. H. Starr, London, Ont.
Jno. Hibbert Wilmot, Spokane, Wash.

James Cairns, Spokane, Wash.
J. J. Warren, Toronto.
F. J. Kilner, Spokane.
W. T. Stuart, M. D., C. L., Toronto.

Head Office: Rossland, B.C.

Owns and is developing the White Bear mineral claim, adjacent to the Le Roi mine, Rossland, British Columbia. At the end of 1898 the development consisted of a shaft down 250 feet and 400 feet of drifting. Cross-cuts at the 100-foot and 200-foot levels were reported to show from 7 to 10 feet of ore.

WHITE GROUSE COPPER MINING CO., Limited.

Registered 22nd March, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Head Office: W. L. Lewis, Secretary, Spokane, Wash.

CANADIAN OFFICE:
Nelson, B.C.

Owns the Anaconda, Butte, and Bright Star Fraction, situated on White Grouse Mountain, Ainsworth Mining Division of British Colvmbia.

WHITEWATER DEEP MINING CORPORATION, Limited.

Incorporated in British Columbia, 1898. Authorized Capital, $100,000, in shares of a par value of $1.00.

Head Office: R. E. L. Brown, Managing Director; Franklin Rifle, Mining Engineer, Victoria, B.C.

WHITEWATER DEEP MINING CORPORATION—Continued.

Owns and is developing the Whitewater Deep group, comprising seven claims, at Whitewater, Slocan Mining District, British Columbia.

The claims have been developed and opened out during 1898 by a force of 80 men. A flume from Lyle Creek, 5,000 feet long, supplies power to the air compressor, which will supply compressed air to the drills in future. Operations have just commenced on the lowest level to drive a new tunnel 1,800 feet long, to tap, at a depth of about 1,000 feet, the ledges of the claims which have been exposed in the upper tunnels. A waggon road has also been constructed, about 600 feet long, to meet the Whitewater waggon road.

Bunk houses and boarding houses have been erected for the men at the mines, also extensive ore houses. An electric plant is about to be installed to light the mines and town.

The ore here is believed to be a continuation of the celebrated Whitewater vein, and a sample carload shipped has, we are informed, confirmed this theory, the values realized being the same as from the Whitewater ores, and highly satisfactory to the management. The property is under the superintendence of good business men, who are carrying on the work with tact and energy, and no justifiable expense is being spared to convert the claims into well developed mines.

WHITEWATER MINES, Limited.

Registered 1897. Authorized Capital, £125,000 stg., in shares of £1: all the shares have been issued, 110,000 being fully paid, including 38,000 (vendor's) issued credited as fully paid, and 15,000 having 20s. per share called up.

Directors:

Henry W. Forster, M.P.
Oliver Wetherell.
Richard Popkiss.
A Johnstone Douglas.
A. C. Mitchell Innes.

Head Office: E. R. Tasman, Secretary, 3 Lawrence, Pountney Hill, London, E.C.

Mines Office: Whitewater (K. & Slocan R'y.) B.C.

Formed for the purpose of acquiring from the London and British Columbia Goldfields, Limited, (See notice elsewhere in this vol.), the Whitewater mines, situated in the Slocan District, B.C., comprising the Whitewater, Irene, Myrtle R. and Tennie C. claims, covering an area of 109.5 acres. The purchase consideration was £110,000, payable in cash and shares. The mine is worked through tunnels, five in number, the lowest tapping the ore at about 480 feet from the surface. (For detailed description of the property, see Canadian Mining Manual, 1898).

WHITEWATER WEST MINING CO., Limited.

Incorporated in British Columbia, 28th July, 1898. Authorized Capital, $1,000,000, divided into shares of a par value of $1.00.

Head Office: R. E. L. Brown, Managing Director, Victoria, B.C.

WILD HORSE GOLD MINING CO., Limited.

Incorporated in British Columbia, 5th March, 1897. Authorized Capital, $2,000,000, in shares of a par value of $1.00. In December, 1897, the fully paid shares were offered for public sale in London, England, by the Goldareas Proprietary, Limited, at 9d. each.

Directors:

R. A. Dickson, President.

J. S. Clute. W. A. Galliher. J. A. Crane. M. R. Straight. Geo. Parker.

Head Office: Joseph B. Dabney, Sec.-Treas., Rossland, B.C.

Formed to acquire and work the following nine gold and silver bearing properties:—Molly F., Big 2, Nebraska Girl, M.E.F., Iron King, Vermont, Red Lion, Whale and Commonwealth, comprising a total area of about 450 acres, and situated on Wild Horse, Porcupine, Hidden Canyon and Quartz Creeks, British Columbia.

WILLOW CREEK GOLD MINING AND DEVELOPMENT CO. OF BRANTFORD, ONT., Limited.

Incorporated 6th May, 1897. Authorized Capital, $99,000 in shares of $1.00 each.

Directors:

E. Todd, Brantford, Ont. | O. Clark, Brantford, Ont.
F. McCallum, " " | F. C. Harp, " "
D. A. McCallum, Brantford, Ont.

Head Office: Brantford, Ont.

Formed to carry on in all its branches the business of a mining, milling, reduction and development company.

WINNIPEG AND EUREKA MINING CO., Limited.

Incorporated in British Columbia, 2nd November, 1896. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Directors:

Hon. T. Mayne Daly, President.

W. A. Swan	J. Hillyard Leech	D. D. Birks
D. C. W. Clark	James Haddock	F. W. Wright

Head Office: Rossland, B.C.

Owns and is developing the Eureka group, comprising four claims, the Eureka, Shamrock and Tenderfoot, on Cariboo Creek, Slocan Mining District, and the Summit, on Forty-nine Creek, Nelson Mining Division of British Columbia.

WINNIPEG MINING AND SMELTING CO., Limited.

Incorporated in British Columbia, 14th July, 1897. Authorized Capital, $1,000,000, in shares of a par value of $1.00.

Directors:

Duncan McIntosh, President.

J. Mack, Vice-President. D. H. Beecher, Treas. W. F. Heney, Sec.

E. J. Dyer.

Head Office: Greenwood City, British Columbia.

Owns and is developing the Winnipeg mineral claim, comprising an area of 33½ acres, and situate in the Grand Forks Mining Division, Yale District, British Columbia. Opened by five shafts, No. 1, 35 feet; No. 2, 59 feet; No. 3, 14 feet; No. 4, 320 feet; (double compartment, the working shaft) No. 5, 45 feet; underground works, comprising raises, cross cuts, etc., aggregate 1,955 feet. Machinery equipment comprises:—

Boilers:—Two, 35 h.p. and 60 h.p.

Air Compressor:—One Rand, six drill capacity.

Drills:—Rand.

Hoisting Engine:—One single drum cylinder 6¼ x 8 in.; dia. of drum 24 x 30 in.

Pumps:—Cameron sinking, and one Duplex Snow.

DIRECTORS' REPORT.

(*Dated 1st July*, 1898.)

The Financial Statement shows receipts from the sale of treasury stock to be $18,100.00; expenditures, $12,227.52; on hand, $5,872.48; also that

WINNIPEG MINING AND SMELTING CO.—Continued.

there is 156,500 shares of treasury stock on hand. The disposition of your Directors is to sell this from time to time as money may be required to develop the property; and when a block of treasury stock is disposed of, to fill all orders from present members for additional stock before the orders from those who are not members are filled. Any stock that may not be needed for the development of the property will be owned pro-rata by the stockholders of the company.

The Detailed Report of work done and cost shows that a double compartment working shaft, known as shaft No. 4 has been sunk to a depth of 100 feet, costing $19.10 per foot; an incline shaft, No. 5, sunk on "new strike" on the west side of the property 45 feet deep, costing $10.50 per foot; and 579 feet of drifting and cross-cutting done at the 100 foot level at shaft No. 4, costing 6.72 per foot. The cost reported for the different work includes cost of superintendence, all labour of every kind and description employed on the various works, also timber, powder, candles, fuel, etc.

In addition to the above work a frame shaft-house, 24 x 50 feet, has been erected and a complete and substantial steam hoisting and pumping plant installed therein, which includes a full complement of accessories, including tools of various kinds; the whole being very complete and suitable for the thorough development of the property to the depth of five hundred feet.

There has also been a comfortable office built, and good roads graded to and from the various buildings, and $275.12 expended in surface cross-cutting, which has added materially to the prospective value of the property by exposing chutes or veins of ore that were not known of before. While referring to the work done by the Winnipeg Company it may not be out of place for me to state, for the information of those who have not visited the property, that considerable work was done before the present company bought the property. This consisted in part of the sinking of shaft No. 1, 35 feet deep; shaft No. 2, 59 feet deep; and shaft No. 3, 15 feet deep; also several open cross cross-cuts, and about 50 feet of drifting, that was done at the bottom of shafts 1 and 2. Mess room, kitchen, bunk rooms, etc., to accommodate 35 men had been built, and a considerable amount spent in road building.

The Auditing was very carefully and thoroughly done by Mr. Isaac Syms, one of your stockholders. All the reports referred to have gone very thoroughly into detail, and I regret that space will not permit me giving them to you in full; however, they are all on file and you are invited to inspect them at any time.

At the general meeting the retiring Directors were all re-elected for the ensuing year, and the same conservative and economical policy practised during the past year, may be relied on during the coming year.

WINNIPEG MINING AND SMELTING CO—Continued.

The active Railroad construction now going on at Robson and Penticton leads me to confidently anticipate that in less than a year trains will be running into Greenwood; in fact, the contracts and charters call for the completion sooner. In the meantime it will be the policy of your Directors to proceed with the development of the property in a careful, and conservative way and strictly within the means at their command, and with the ore at present in sight, there is no reason why the Winnipeg should not be a regular shipper as soon as the railroad reaches Greenwood, and then the hopes of your Directors will be realized. I might add that in February last a Trial Shipment of 8,584 pounds of ore from shaft No. 1 and 2 was made to the Le Roi Smelter at Northport, which netted, after paying smelting and railroad charges, $269.99. As the waggon charge for transportation of ore from the Winnipeg mine to the nearest railroad point at present is $15 per ton, it would be a waste of the company's property to ship ore at present, as the waggon charge can be saved as soon as transportation can be had from Greenwood.

In conclusion I wish to say that your management desires that the stockholders be kept fully advised at all times, as to the business of the company, and any information asked for at any time will be cheerfully given; and if any of the members can make it convenient to visit the mine they will be entertained and their visit appreciated.

TRIAL BALANCE.

GREENWOOD CITY, B.C., June 30th, 1898.

Folio.	Name.	Remarks.	Dr.	Cr.
3.	Timber account.....	Stock on hand	$ 158 37	
4.	D. H. Beecher, Tr. ...	Balance in Treasury	4,200 00	
5.	Treasury Stock	Pro. Stock sold		$18,100 00
26.	Fuel account	Stock on hand	163 55	
35.	Win. M. & S. Co. Ltd..	See Tran. of Ac't...	12,227 52	
45.	Powder account	Stock on hand	15 75	
46.	Candle account.....	Stock on hand	3 20	
47.	Cash on hand		5 co	
54.	Exchange Nat. Bank ..	Balance	269 45	
193.	Jenckes Mach. Co.....	Balance	63 66	
198.	Bills receivable.....		850 00	
244.	Ebberts & Taylor.....	Balance	143 50	
			$18,100 00	$18,100 00

WINNIPEG MINING AND SMELTING CO.—Continued.

FINANCIAL STATEMENT.

Also condensed Statement of Receipts and Disbursements from October 22nd, 1897 to June 30th, 1898.

		Dr.	Cr.
Received from sales of Treasury stock		$18,100 00	
Expenditure as per tran. of Wm. M. & S. account			$12,227 52
Stock on hand (Mining timber, fuel, powder, etc.) See Trial Balance			340 87
In Treas. hands, (D. H. Beecher)	$4,200 00		
In Exchange Nat. Bank, Spokane	269 45		
Cash on hand	5 00		
Accounts and bills receivable	1,057 16		
			5,531 61
		$18,100 00	$18,100 00

There is (156,500) one hundred and fifty-six thousand five hundred of Treasury stock in the Treasury. This will be sold from time to time as money may be required for the development of the property. Any Treasury stock that may not be needed for developing the property will be owned pro rata by the stockholders of the company.

TRANSCRIPT

Accounts that have been charged to the company.

Folio.			
23.	Organization expense		$ 157 11
10.	Shaft House		448 67
14.	Machinery and Installation		2,297 83
20.	Tools		281 29
203.	Office Building		103 56
30.	Cabin and Cook House, Furnitnre		74 25
22.	Betterments (making roads and repairing)		169 34
195.	Taxes and Recording		659 75
6.	Shaft 4		1,824 22
44.	Surface work		275 12
43.	Shaft 5		472 60
42.	Drifts and Cross-cuts		3,893 21
17.	Shaft 2		18 50
28.	Cabin expense		7 90
24.	Office expense and management		1,124 35
50.	General expense		607 06
200.	Ore, Net proceeds from trial shipment	$187 24	
	Balance	12,227 52	
		$12,414 76	$12,414 76

WISCONSIN CONSOLIDATED MINES, Limited.

Incorporated 2nd April, 1897. Authorized Capital, $1,000,000 in shares of a par value of $1.00.

Head Office: F. M. O'Brien, Secretary, Kaslo, B.C.

Owns and is developing three mineral claims—Wisconsin, Nellie B. and Kootenaian Fraction, situated on Noble Five Mountain, Slocan Mining District, British Columbia.

WOLF LAKE GOLD MINING CO. OF ONTARIO, Limited.

Incorporated 1898. Authorized Capital, $180,000 in shares of $1.00 each.

Directors:

Sir Melville Parker, Cooksville, Ont.
F. Rogers, Sault Ste. Marie, Ont. — W. B. Townley, Toronto, Ont.
T. H. Murray, Sault Ste Marie, Ont. — G. J. Ashworth, Toronto, Ont.
W. A. Lamport, Toronto, Ont. — W. B. Taylor, Toronto, Ont.

Formed to carry on in all its branches the operations of a mining, milling, reduction and development company.

WONDERFUL GROUP MINING CO., Limited.

Incorporated 1896. Authorized Capital, $1,000,000.

Head Office: H. C. Bell, Secretary, Spokane, Wash.
W. W. D. Turner, President.

Mines Office: E. J. Field, Manager, Sandon, B.C.

Owns and operates the "Wonderful," "Lookout" and "Columbia," situate near the town of Sandon, in the Slocan Mining District, Province of British Columbia. Mr. Carlyle, in his report to the Minister of Mines, thus describes the operations on the property: "The property had been under bond to Jno. A. Finch, who had done over 2,000 feet of underground work, mostly along the supposed course of a vein, but with not very successful results, only two carloads of ore being shipped from these workings in 1895. Ore was found scattered through the wash and the much shattered slates near the surface, so the company decided to prospect the claim by bringing

WONDERFUL GROUP MINING CO.—Continued.

water from one of the small streams in a small flume, and then letting it cut its way down through the wash to bed-rock as it rushed down the mountain side to Miller Creek. Water was turned on June 18th, and it was found that pieces of galena ore were being left in the bottom of the cut, and this prospecting then developed into hydraulic mining, the water being allowed to run for several hours, when there would be a "clean up" of tons of high grade ore, with the result that over $25,000 were thus won. As the work proceeded it was seen that the mineral-bearing wash or debris was not more than 100 or 120 feet wide, while the real "pay dirt" had a much less width than this, and as the channel cut down it left on either side country rock apparenrly in place. In the pay dirt there was not only the solid ore but decomposed mineral, all of which of course was swept away, only the boulders of galena, with all the snrface decomposed, remaining; one of solid galena weighing over 13 cwt. While some believed that the ore had been brought down from a vein higher up on the mountain side, the fact that this ore was found only in a narrow channel, and that immediately above the slope of the mountain ran back with a gentle rise, led to the belief that the washing was being done very close to the vein, if not immediately above it, and this conclusion then arrived at has apparently been confirmed in that this washing is now reported by the manager to have disclosed the solid vein in place, with a strike S.W. and N.E., and regular underground mining has been begun."

A good wide track or trail, 7,500 feet long, was built from the mine to Sandon, and the ore is packed out to the railroad, the ore assaying from 113 to 133 ounces of silver per ton, and 70-76 per cent. lead, and Mr. Field has succeeded not only, as he claims, in uncovering the vein by this method of prospecting, but has recovered 400 tons of first-class ore from the debris.

XOCHIMILCO PEAT FUEL CO., Limited.

Incorporated 19th July, 1899. Authorized Capital, $100,000, in shares of $100.00.

Directors:

Dr. A. A. Dickson, Toronto. | Dr. A. McPherson, Toronto.
Dr. E. W. Spragge, " | S. Loudon, "
J. A. G. Ardagh, C.E., Barrie, Ont.

Head Office: Toronto, Ont.

Formed to carry on the operations of a mining, milling, reduction and development company.

YANKEE DOODLE MINING CO. OF TORONTO, Limited.

Incorporated 1897. Authorized Capital, $45,000, in shares of $1.00 each.

Directors:

R. Kilgour, Toronto, Ont.	C. B. Nicolson, Toronto, Ont.
L. Harris, " "	F. C. Kane, " "
J. Pugsley, " "	J. B. Coulthard, " "
J. Wolfe, " "	J. R. Barber, Georgetown, "

Formed to carry on in all its branches the business of a mining, milling, reduction and development company.

YELLOW JACKET GOLD MINING CO. OF SEINE RIVER, Limited.

Incorporated 1897. Authorized Capital, $90,000, in shares of $1.00 each.

Directors:

W. Croft, Toronto, Ont.	S. R. Clarke, Toronto, Ont.
J. Goodall, " "	S. J. Sharp, " "
A. J. H. Eckardt, " "	W. S. Milne, " "
J. W. Lester, " "	J. H. Housser, " "
S. W. McKeown, " "	R. Palen, Buffalo, N.Y.

Formed to carry on in all its branches the business of a mining, milling, reduction and development company.

YMIR GOLD MINES, Limited.

Incorporated in England, 29th August, 1898, and registered in British Columbia 5th October, 1898 Authorized Capital, £200,000, in 200,000 shares of a par value of £1.00; issued, 125,000 shares fully paid.

Head Office: 3 Lawrence, Pounteney Hill, London, E C.

Canadian Office: J. Roderick Robertson, Nelson, B.C.

Formed to enter into and carry into effect, with such modifications (if any) as may be agreed upon, an agreement to be made with The London and British Columbia Goldfields, Limited, of the one part, and the Company of the other part, for the purchase of the Ymir Gold Mines, situated at Wild Horse Creek, West Kootenay, comprising four claims, known as the Ymir, Rockland, Mugwump, Golden Horn, and sundry fractions and rights appertaining thereto constituting the Ymir group.

Equipped with 40-stamp battery (water-driven) and other plant.

YMIR GOLD MINES—Continued.

The Ymir mine is worked by three tunnels, Nos. I, II and III, of which at 31st December, 1898, No. I was in 500 ft., No. II 800 ft., and No. III 375 ft. (See notice London and B. C. Goldfields, Limited.)

The ore, which is pyritic, may be divided into three classes—first, milling ores, averaging about $12 per ton; second and third, shipping ores, ranging in value from $40 to $100 per ton.

YUKON AND BRITISH COLUMBIA SYNDICATE, Limited.

Office: 91 Queen St., Cheapside, London, E.C.

Registered 9th March, 1898, to acquire and deal with properties in British Columbia. Authorized Capital, £2,000, in 2,000 shares of £1.

YUKON AND MACKENZIE VALLEYS EXPLORATION SYNDICATE, Limited.

Registered 11th March, 1898. Authorized Capital, £15,000, in shares of £1 each. In March, 1898, 9,000 shares were offered for public subscription.

Offices: 35 and 37 Broad St. House, New Broad St., London, E.C.

Formed to acquire mining properties in the Yukon Gold Fields, N.W.T., Canada.

YUKON AND STIKINE RIVER TRADING AND TRANSPORTATION CO., Limited.

Registered 8th February, 1898. Authorized Capital, £50,000, in 40,000 preference shares of £1 each and 10,000 ordinary shares of £1 each; in February, 1898, 20,000 preference shares were offered for public subscription.

T. P. Penny, Secretary, 33 Finsbury Circus, London, E.C., England.

This Company was formed to establish through transportation service from Fort Wrangel, an ocean port, 750 miles north of Victoria and Vancouver, B.C., via the Stikine River to Teslin Lake at the head waters of the Yukon River and intermediate points, and to engage in transport, trading and general supply business throughout the Cassiar and Upper Yukon Districts, as well as to acquire options and interests in mining properties in Northern British Columbia and in the Yukon and Klondyke Districts.

YUKON CORPORATION, Limited.

Offices: Winchester House, Old Broad St., London, E.C.

This Company was registered on the 18th February, 1898, to acquire and deal with mining properties. The Authorized Capital is £1,000, in 1,000 shares of £1 each.

YUKON EXPLORATION SYNDICATE, Limited.

Office: A. F. Wood, Secretary, 33 Havelock Road, Hastings, England.

Registered 12th April, 1897, to acquire and deal with mines and other properties. Authorized Capital, £10,000, in shares of £1 each. 2,182 shares have been issued and are fully paid. The capital was increased from £2,500 to its present amount, by resolution passed on 23rd December, 1897.

YUKON GOLDFIELDS, Limited.

Registered 27th July, 1897. Authorized Capital, £100,000, in 97,500 ordinary shares of £1 each and 2,500 deferred shares of £1 each; 25,685 ordinary and 2,266 deferred shares have been issued, the ordinary having 5s. per share called up, and the deferred being fully paid. Of the deferred shares 2,000 were issued credited as fully paid, as above, in July, 1897, 50,000 ordinary shares and the remaining 500 deferred shares were offered for public subscription by the London and British Columbia Goldfields, Limited.

E. R. Tasman, Secretary, 3 Lawrence Pountney Hill, London, E.C.

YUKON GOLD PIONEERS, Limited.

Offices: 11 and 12 Blomfield St., London, E.C, England.

Registered 11th August, 1897, to adopt an agreement between Robert Jewell on the one part, and A. Manning as trustee for and on behalf of this company of the other part, and to carry on the business of miners, smelters, explorers, prospectors, bankers, financiers, promoters, etc. Authorized capital, £100,000, in 100,000 shares of £1 each.

YUKON PLACERS MINES, Limited.

Registered 29th July, 1897, by Kimber & Co., 79 Lombard St., London, E.C., to acquire lands and mines in British Columbia and elsewhere. Authorized capital, £2,000 in £1 shares.

YUKON RIVER GOLD MINES, Limited.

R. H. Coltman, Secretary, 232 Dashwood House, New Broad Street, London, E.C., England.

Registered 30th July, 1897, to acquire and deal with mining properties. Authorized capital, £100, in shares of £1 each.

YUKON TRADING, MINING AND EXPLORATION CO., Limited.

Hon. Charles A. Keeler, Sec.-Treas., 51 Wall St., New York, N.Y.

London Office: 7 Great Winchester Street, London, E.C.

Registered in United States, in August, 1897, to establish trading posts and to lease, prospect and develop mining properties, etc., in Alaska. Authorized Capital, $1,000,000, in shares of $1.00 fully paid.

YUKON VALLEY GOLDFIELDS, Limited.

Offices: 11 Queen Victoria St., London, E.C., England.

Registered 8th November, 1897, to adopt an agreement dated November 6th, 1897, made with C. E. Convis and W. B. Foster, and to carry on exploring and mining operations. Authorized Capital, £30,000, in 27,000 ordinary shares of £1 each and 3,000 founders' shares of £1 each. The founders' shares are entitled to half the surplus profits in any year, after 15 per cent. has been paid on the ordinary shares for such year, and to half the surplus assets on winding up.

ZENITH GOLD MINING CO., OF ONTARIO, Limited.

Incorporated 1898. Authorized Capital, $998,000, in shares of $1.00 each.

Directors:

Thomas P. Brown, President.
Chas. L. Lewis, Vice-President. Clyde W. Stilson, Sec. and Treas.

Head Office: Duluth.

Canadian Office: Mine Centre, Ont.

Owns and is developing Mining Location K 257, located on the south side of the Seine River, Rainy River District, Ontario.

THE SNOW STEAM PUMP WORKS

MANUFACTURERS OF

Steam Pumps, Pumping Engines & Hydraulic Machinery

General Agents for Canada: DRUMMOND, McCALL & CO., Montreal.
Local Agent: F. R. MENDENHALL, Rossland, B.C.

☞ *Pumps kept in stock at Montreal and Rossland.*

Canada Iron Furnace Company, Limited

MANUFACTURERS OF

CHARCOAL PIG IRON (From the Famous Ores of the Three Rivers District)

OFFICE: Canada Life Building, MONTREAL, Que.

GEORGE E. DRUMMOND, *Managing Director.*

Plants at Radnor Forges, Que., Grand Piles, Que., Lac-a-la-Tortue, Que., Three Rivers, Que., La Peche, Que.

MONTREAL CAR WHEEL COMPANY

— MANUFACTURERS OF —

RAILROAD CAR WHEELS

Street Car and Lumber Truck Wheels a Specialty.

Offices: CANADA LIFE BUILDING, MONTREAL.

Works: LACHINE, QUE. THOMAS J. DRUMMOND, General Manager

DRUMMOND McCALL PIPE FOUNDRY CO. LIMITED.

—MANUFACTURERS OF—

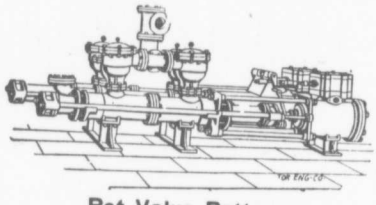
Cast Iron Pipes, Special Castings, Etc.

Works: LACHINE, Que. *Offices: CANADA LIFE BUILDING, MONTREAL.*

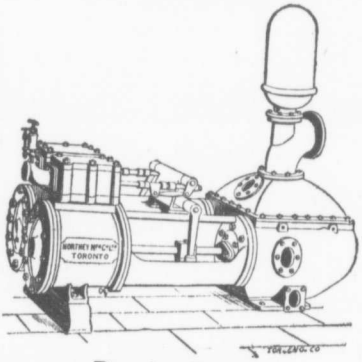
Ludlow Hydrants, Valves, &c., always on hand.

MINING PUMPS..

FOR . . .
ALL . . .
DUTIES



Pot Valve Pattern



Regular Duplex

WRITE FOR QUOTATIONS

Northey Manufacturing Co.

(LIMITED)

TORONTO, ONTARIO.

The Royal Electric Company

MONTREAL, QUE.

Western Office: TORONTO, ONT.

Sole Manufacturers for the Dominion of Canada of the

"S K C" Two Phase Alternating Current System for Light and Power.

Particularly well adapted for Long Distance Transmission, as well as for Central Station Lighting.

With this system Water Powers can be delivered economically long distances and made available for local uses, particularly suitable for **Mining Purposes.** The system comprises GENERATORS, MOTORS and TRANSFORMERS.

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Arc Dynamos, Railway Generators, Arc Lamps, Railway Motors, Direct Current Generators and Motors, Lighting and Power Supplies, Wire, Switchboards and General Electrical Apparatus.

☞Correspondence solicited on Electric Lighting, Mining, Manufacturing and Railway work.

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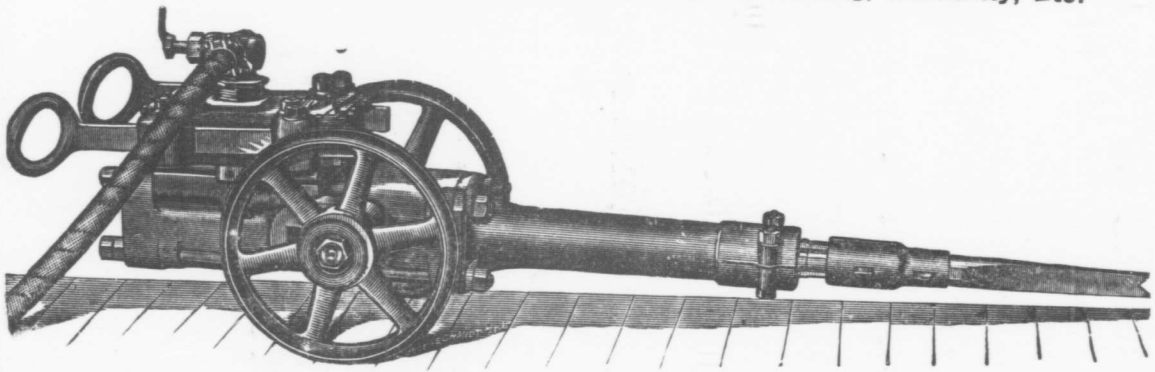

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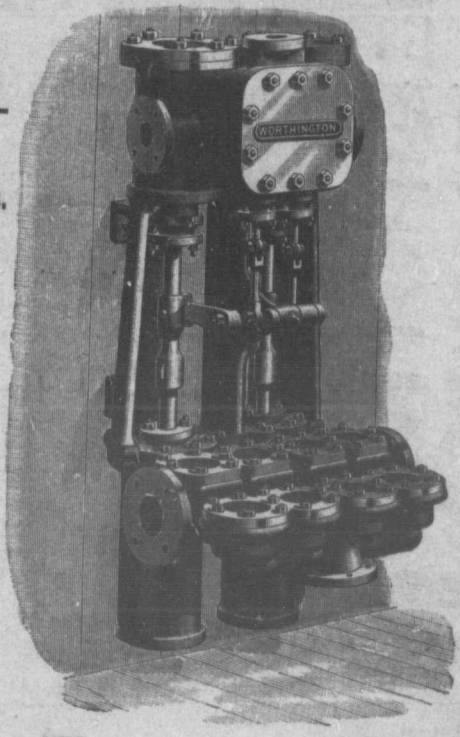

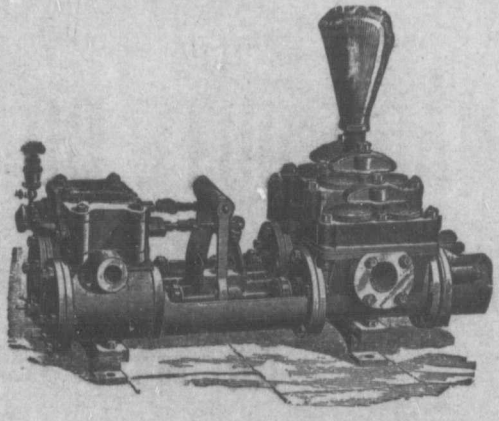

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