

BALBACH SMELTING & REFINING COMPANY,

EDWARD BALBACH, JR.. - PRES'T.
J. LANGELOTH, - - VICE-PRES'T.
Newark, New Jersey.

Smelters and Refiners of
Gold, Silver, Lead, and
Copper Ores.

Bullion and Argentiferous Copper
Matte Received on Consign-
ment or Purchase.

Smelting and Refining Works:
Electrolytic Copper Works:

NEWARK, N. J.

Buena Fe Sampling Works:
Agency, SABINAS COAHULLA,
Mexico.

CANADA ATLANTIC RAILWAY.

The shortest passenger route between
OTTAWA and MONTREAL
and all points east and south.

The only road in Canada running trains lighted with
electricity and heated by steam from the engine. Luxur-
ious Buffet Pullman Palace Cars on all trains between
Ottawa and Montreal. Only line running through Sleep-
ing Cars between

Ottawa, Boston and New York

And all New England and New York points.

Baggage checked to all points and passed by Customs
in transit.

For Tickets, Time Tables and information apply to
nearest agent or to S. EBBS, City Passenger Agent,
24 Sparks St., OTTAWA.

GEO. H. PHILLIPS Gen. Agent,
VALLEYFIELD.

J. W. DAWSEY,
136 St. James St., MONTREAL

Or at 260 Washington St., Boston, and
317 Broadway, New York.

E. J. CHAMBERLIN, C. J. SMITH,
General Manager, General Passenger Agent.
General Offices, Ottawa.

STAMPS!

PRITCHARD & ANDREWS,
173 & 175 SPARKS STREET.

GENERAL ENGRAVERS,
Rubber Stamp Manufacturers,
SCALE MAKERS AND BRASS WORKERS.

Brands, Steel Stamps, Time Checks
and Tags.

Stencils and Ink, Scales and
Weights.

RUBBER STAMPS FOR OFFICE WORK.

Geological Survey of Canada.

Annual Report, 1888-89,

VOL. IV.

With Accompanying Geological Maps,
Plans of Mine Workings, and other
Illustrations; also a Complete
Alphabetical Index.

NOW PUBLISHED AND ON SALE.

PRICE, COMPLETE, TWO DOLLARS.

Part A.—Summary Reports of Operations 1888 and
1889, by the Director. Price 10 cents,

Part B.—West Kootanie District, B.C., by Dr. G. M.
Dawson. Price 25 cents.

Part D.—The Yukon and Mackenzie Basins, with maps,
by R. G. McConnell. Price 25 cents.

Part E.—Lake Agassiz in Manitoba, by Warren Upham.
Price 25 cents.

Part F.—The Sudbury Mining District, by Robert Bell,
B.A., Sc., LL.D.

Part K.—Mineral Resources, Quebec, by Dr. R. W. Ellis.
Price 25 cents.

Part N.—Surface Geology, New Brunswick, by R.
Chalmers. Price 30 cents.

Part R.—Chemical Contributions, by G. Christian Hoff-
mann. Price 25 cents.

Part S (a).—Mining and Mineral Statistics, 1888, by
H. P. Brumell. Out of print.

Part S (b).—Mineral Statistics and Mines, 1889, by
E. D. Ingall and H. P. Brumell. Price 25 cents.

Part T.—Annotated List of Minerals occurring in Can-
ada, by G. Christian Hoffmann. Price 25 cents.

Note.—These and all other Publications of the
Survey, if not out of print, may be purchased from
or ordered through

W. FOSTER BROWN & Co., Montreal.

DURIE & SON, Ottawa, Ont.

WILLIAMSON & Co., Toronto, Ont.

MCGREGOR & KNIGHT, Halifax, N.S.

J. A. McMILLAN, St. John, N.B.

J. N. HIBBEN & Co., Victoria, B.C.

R. D. RICHARDSON, Winnipeg, Man.

MOIR & MILLS, Port Arthur, Ont.

THOMPSON BROS., Calgary, Alta.

THOMPSON BROS., Vancouver, B.C.

EDWARD STANFORD, 26 and 27 Cockspur Street,
Charing Cross, London.

SAMPSON, LOW & Co., 188 Fleet Street, London.

F. A. BROCKHAUS, Leipzig.

B. WESTERMANN & Co., 838 Broadway, N.Y.

or on application to

DR. JOHN THORBURN,

Librarian,

Geological Survey, Ottawa.

N.B.—Catalogue and Price List can be obtained from
any of the above.

CANADIAN GOLD MINES.

The undersigned invites corres-
pondence with proprietors of re-
bellious or refractory GOLD ORES
or TAILINGS in CANADA with a
view to enter into contract to treat
same.

J. LAINSON WILLS, F.C.S.,
206 Albert Street, OTTAWA.

Old Chum (CUT PLUG.) OLD CHUM (PLUG.)

No other brand of
Tobacco has ever en-
joyed such an immense
sale and popularity in
the same period as this
brand of Cut Plug and
Plug Tobacco.

Oldest Cut Tobacco manufac-
turers in Canada.

S. Ritchie & Co.

MONTREAL.

Cut Plug, 10c. ¼ lb Plug, 10c.
½ lb Plug, 20c.

BELL TELEPHONE CO. OF CANADA.

ANDREW ROBERTSON, . . . PRESIDENT.
C. F. SISE, . . . VICE-PRESIDENT.
C. P. SCLATER, . . . SECRETARY-TREASURER.
H. C. BAKER, . . . Manager Ontario Dept.
HAMILTON.

HEAD OFFICE, MONTREAL.

This Company will sell its instruments at prices ranging
from \$10 to \$25 per set. These instruments are under
the protection of the Company's patents, and purchasers
are therefore entirely free from risk of litigation.

This Company will arrange to connect places not hav-
ing telegraphic facilities with the nearest telegraph office.
or it will build private lines for firms or individuals, con-
necting their places of business or residence. It is also
prepared to manufacture all kinds of electrical apparatus.

Full particulars can be obtained at the Company's
offices as above, or at St. John, N.B., Halifax, N.S.,
Winnipeg, Man., Victoria, B.C.

JOHN STEWART,

MINING ENGINEER.

181 BAY STREET, OTTAWA, ONT.

Reports · on · Mines · and · Mineral · Lands.

The Sale or Purchase of Mines and
Mineral Lands Negotiated.