Mining Properties Examined and Reported on. 25 Years' Experience.

### A. T. Anderson & Co.

PATENT AND MINING BROKERS.

And Mining Machinery Agents.

62 ADELAIDE ST., EAST.

TORONTO.

### E. S. TOPPING, TRAIL, B.C.

Has for Sale . . . .

Mines and Prospects on Lookout Mountain, Rossland, Salmon River and all other parts of the Columbian Basin. Lots in Trail. Lots and 20 acre garden plots in Deer Park. Will buy Stock for outside investors and try to protect them from wild-cats. Will examine

#### DIVIDEND PAYING

Mining Stocks and

Other Investments.

ALL REPRESENTATIONS GUARANTEED.

J. M. HARRIS, SANDON.

MANUFACTURERS OF

### OAK TANNED LEATHER BELTING..

MONTREAL and TORONTO.



### KING BROS.

### Miners of Crude Asbestos ALL GRADES.

Head Office: BELL'S LANE, Quebec.

MINES AT THETFORD STATION, QUEBEC CENTRAL RY, QUEBEC.

#### MICHIGAN COLLEGE OF MINES.

A State technical school. Practical work. Special facilities for men of age and experience. Elective system. Forty-five weeks a year. Non-resident tuition \$150 a year. For Catalogues address

Dr. M. E. WADSWORTH, Pres., Houghton, Mich.

# W. J. WATERMAN, Mining Engineer. 610 CRANVILLE ST...

Box 123. VANCOUVER, B.C.

Telegraph Address, WATERMAN, Vancouver.

MONTREAL TESTING LABORATORY.

# MILTON L. HERSEY, B.A. Sc.,

CONSULTING CHEMIST OF THE
CANADIAN PACIFIC RAILWAY COMPANY.
Formerly Demonstrator in Chemistry, Faculty of Applied
Science, McGill University

ASSAYER AND MINERALOGIST

# ASSAYS "ORES

Minerals, Bullion, etc., Analyses of Lubricants, Paints, Cements, Fuels, Iron, Steel, etc. Largest and best equipped Private Testing Laboratories in Canada.

MINERAL PROPERTIES EXAMINED

ANALYSES of all materials made with greatest accuracy, struction in Assaying, etc., to Prospectors and others. Alumini Assay Balance, sensibility 1-24,000 grain. Special Rates to Mining Companies.

SAMPLES BY MAIL—I cent per 4 ozs.; limit 24 ozs.
OFFICE AND LABORATORY:

#### 16 ST. SACRAMENT ST., MONTREAL.

[Few Doors East of Board of Trade Building 1

## ORFORD COPPER CO. Copper Smelters

WORKS AT CONSTABLE'S HOOK, N. J. Opp. New Brighton, Staten Island.

Copper Ore, Mattes, or Builion Purchased. made on Consignments for Refining and Sale.

Specialty made of Silver-bearing Ores and Mattes. SELL

#### INGOT AND CAKE COPPER.

Robert M. Thompson,

G. A. Land,

Office, 37 to 39 Wall Street, New York.

#### PROCURED ON MINING INVENTIONS

BY RIDOUT & MAYBEE, 103 BAY STREET, TORONTO Telephone 2582.

Foreign Members of Chartered Institute of Patent Agents. England.
Send for Free Pamphlet on Patents, Etc.

## ARTHUR W. B. WHITELEY, E.M.

Consulting Mining Engineer and Metallurgist

MANAGEMENT AND REPORTS.

MINE CENTRE, ONT., CAN.

P.O. Address: Harding Crane Lake Mine. Moreing and Wells' Code.

#### **ALEXANDER DICK** Civil and Mining Engineer

QUEEN BUILDING, HOLLIS ST.

HALIFAX, N.S.

May be consulted on the opening and development of mining properties. Reports and estimates made on installation of plants and costs of mining, &c. Thoroughly equipped for all kinds of surface and underground surveys. The location of old boundary lines a specialty.

P.O. BOX 112.

### LEDOUX & COMPANY

9 CLIFF STREET. NEW YORK.

### ENGINEERS, METALLURGISTS and ASSAYERS.

Public Ore Sampling and Storage Works.

All the principal buyers of furnace materials in the world purchase and pay cash against our certificates of assay, through New York banks.

By special permission of the Secretary of the Treasury of the United States, cars of Ore or Copper Matte passing through in bond can be opened and sampled at

Consignments received and sold to highest bidder. Send for circular giving full particulars

Mines Examined and Sampled. Assays and Analyses of all kinds.

#### F. H. MASON,

Late Chemist and Assayer to the Newbery Vautin (Patents) Gold Extraction Co., Ltd. (Chlorination Process.)

### Consulting Metallurgist, Analytical Chemist and Assayer

Refractory Gold Ores, Concentrates and Tailings a Specialty.

Ores in 100 lb. lots tested by Chlorination and other

Chlorination Plants Designed.

Laboratory: QUEEN BUILDING, HOLLIS ST. HALIFAX. NOVA SCOTIA.

#### J.H.CHEWETT, B.A.Sc.

(Honor Graduate in Applied Science, Toronto University)

Assoc. Mem. Can. Soc. C.E.

### Mining Engineer

Consultation. Reports. Development.

87 YORK ST., ROSSIN BLOCK, TORONTO.

# BALBACH Smelting and Refining COMPANY

EDWARD BALBACH, Jr. - -J. LANGELOTH. - - Vice-President

**NEWARK, NEW JERSEY.** 

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

**Bullion and Argentiferous Copper Matte** received on Consignment or Purchase.

Smelting and Rening Works: Electrolytic Copper Works:

NEWARK, N.J.

Buena Fe Sampling Works:

Agency, SABINAS COAHULLA,