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CRAIGMONT MINES LIMITED
INFORMATION BROCHURE

882064

HISTORY

Craigmont Mines Limited was incorporated in 1946. The major shareholders at present are Noranda Mines Limited, Peerless Oil and Gas Company and Canadian Exploration Limited. The mineral claims on the present mine site ten miles northwest of Merritt, B.C. were acquired in 1954. The copper orebody was discovered by diamond drilling in 1957. The Open Pit Mine started production in 1961 and Underground Production by sub-level caving commenced in 1967. The Open Pit was completed that year after removing 87,000,000 tons of rock which contained 13,800,000 tons of ore. Present production of approximately 5,000 tons per day is from Open Pit Stockpiles and Underground.

In 1968, the Mine produced 1,763,123 tons of ore containing an average of 0.97% copper. The gross revenue for sale of concentrate was \$16,105,661.00.

GEOLOGY

The orebody lies in Promontory Hill and stretches 3,000 feet east-west and about 2,000 feet deep. Thickness varies from 10' to 350 feet. The ore mineral is chalcopyrite which contains 34.5% copper. Iron oxides, magnetite and hematite, also occur but no iron is recovered.

OPERATIONS

Production from Underground is by the Sub-level Caving Method of Mining. The method takes advantage of mechanization and standardized procedures. Large tonnages can be mined by a relatively small crew.

The ore is blasted in seven foot thick vertical slices, sixty feet high and thirty feet wide. The blasted ore is loaded and hauled in rubber-tired, diesel-powered scooptrams to the gravity flow orepass system. The orepasses connect the levels to bins and chutes on the bottom level at 2,400 feet. Ore is transported the 8,000 feet to surface by 12 side-dump cars pulled by a trolley locomotive.

The mine is connected to surface at 2400, 3060 and 3500 foot elevation. One large fan draws air through the mine from 2400 and 3060 elevations. Two internal shafts connect the levels. There is also a fully equipped shop underground. Ground is supported by spraying a two inch layer of concrete on all rock surfaces.

Mine equipment includes the following:

- 7 - Scooptrams
- 4 - Concrete Units
- 4 - Development Machines
- 4 - Production Machines
- 7 - Service Trucks
- 1 - Caterpillar Tractor
- 2 - Trolley Locomotives
- 32 - Ore Cars

PRODUCTION

Since commencement of operations in 1961 to 30 April, 1969, the Craignont concentrator has processed 12,979,178 tons of ore grading 1.54% copper. A total of 677,129 tons of copper concentrate containing 379,986,480 lbs. of copper has been shipped.

MILLING

Capacity 5,000 T.P. day.

Primary crushed ore is delivery from the surface stockpile to the Secondary Crusher building where it receives secondary and tertiary crushing in 14 x 84 inch and 5 x 84 inch Hydrocone Crushers. Conveyors deliver the +15% $\frac{1}{2}$ inch material to the fine ore bins. This material is ground in rod and ball mills and passed through cyclones which control the size to 50-55% minus 200 mesh, and then to flotation cells where the copper concentrate is floated off. This is dewatered by settling and filtering and shipped by truck to C.P.R. siding four miles from the mine.

PLANT SERVICES

Approximately 800 g.p.m. of fresh water is pumped from Nicola River in two stages, against 800 foot head.

Electric power - 6400 K.W. at 66,000 volts from B.C. Hydro Standby generator at Plant.

Natural Gas from Inland Natural Gas Co.

Compressed Air - capacity 8,400 c.f.m.

Buildings - Main Office; Dry change house and First Aid Station; Warehouse; Carpenter Shop; Machine Shop and Electric Shop; Open Pit Shop; Power House; Assay and Research Lab.

Telephone and Teletype.

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