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Property File

REPORT

ON

BELCARRA MINES LIMITED (N.P.L.)

NELLIE GROUP

SIMILKAMEEN MINING DIVISION

BRITISH COLUMBIA

BY

D.C. MALCOLM, P. Eng.,
Consulting Geologist

June 9, 1971

Vancouver, B.C.

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BELCARRA MINES LIMITED (N.P.L.)

NELLIE GROUP

SIMILKAMEEN M.D., B.C.

SUMMARY

The Nellie Group covers the Shamrock deposit along Summers Creek at the south end of Missezula Lake 18 miles north of Princeton B.C. The deposit is a series of chalcocite and malachite fracture fillings and disseminations in an agglomerate bed exposed in trenches for a length of 2,000 feet. In 1929 a small tonnage of this material averaging 5.78% copper was mined and sold.

Geological mapping, trenching and diamond drilling are necessary to evaluate the property.

LOCATION

Latitude: 49°45' North

Longitude: 120°30' West

Elevation: 3,400 Feet

The claims are reached by a branch road off the Merritt-Princeton highway along Summers Creek to Missezula Lake.

The Amax Rum Group lies to the south and west and the Primer Group lies to the east.

The claims are staked on both sides of this Missezula Lake road for 2 miles south of Missezula Lake.

CLAIMS

Eighteen located claims, Nellie Numbers 1 to 18 inclusive, located February 15, 1971. An additional 13 located claims, Nellie Numbers 19 to 31, inclusive, will be transferred to BELCARRA MINES LIMITED (N.P.L.) when recording receipts are received from the British Columbia Department of Mines.

OWNERSHIP

Owned by BELCARRA MINES LIMITED (N.P.L.).

HISTORY

The Shamrock claims were worked in 1928 when some sulphides were shipped. In 1969 the property, then called the Esther Group, was trenched by Delkirk Mines Ltd., sampled geochemically and two diamond drill holes were drilled.

The property was acquired by BELCARRA MINES LIMITED (N.P.L.) in 1971.

TOPOGRAPHY

The Nellie claims are staked at the south end of Missezula Lake elevation 3,300 feet and southward on both sides of the Summers Creek valley.

The valley floor, a farm, is about 1,500 feet wide. The valley walls are steep with occasional bluffs. Logging and mining roads extend both east and west of Summers Creek.

The Shamrock deposits are at elevation 3,400 feet to the west of Summers Creek.

GENERAL GEOLOGY

The Princeton area is underlain by Triassic Nicola Group sediments, volcanic flows and fragmentals deposited in an explosive volcanic-marine sediment environment. The Okanagan or Pennask batholith of Jurassic Age lies to the east of Summers Creek and Missezula Lake. The Nicola volcanics are intruded by dikes, sills and plugs of Jurassic granitic rocks.

The district is extensively faulted with the north striking Allison Lake, Otter Creek and Summers Creek faults. Numerous north west and northeast trending faults, shears and breccia zones branch from these major breaks.

Copper mineralization is widespread and is generally found in Nicola Group rocks associated with intensive faulting and brecciation. Copper Mountain, Ingerbelle and the Amax Axe Group are bulk deposits of this type.

CLAIM GEOLOGY

The Nellie claims are underlain by hematitic limestone, hematitic tuffs, andesite flows, sandy agglomerates and flow breccias.

The formations strike north and dip 25 to 45 degrees to the west. Some fine grained, east striking, vertical, granitic dikes cut the formations.

Faulting is extensive. The main Summers Creek fault strikes north and crosses the western Nellie claims. A series of prominent northwest linears cross the claims and some east striking shear zones and northeast faults occur.

Chalcopyrite, chalcocite and pyrite occur disseminated in a feldspar porphyry andesite flow breccia, as fillings in N 20° E striking fractures dipping 45 degrees westerly and in numerous north east and northwest shears which dip steeply across the volcanics and sediments. The mineralization follows the

3,400 foot contour for a length of 2,000 feet west of Summers Creek and was seen at elevation 3,500 feet east of Summers Creek in a road cut. It is offset by at least one northwest fault.

The sulphides appear to favor a single bed and to be fracture controlled.

WORK DONE

Lines, cut at 200 foot spacing, run in a west direction, cover claims 4, 6, 8 and 10. Geochemical samples were taken at 100 foot spacing on these lines. Lines, at 400 foot spacing with samples at 200 foot intervals, cover 8 additional western claims and 3 lines, 1,000 feet apart and samples at 100 foot intervals, were made across 6 eastern claims.

The work showed anomalous values on all three eastern lines which cross Summers Creek valley and extend up its east slope to the claim boundary. It includes the Shamrock showings. It shows highs of 545, 225 and 1,600 parts per million copper.

In addition six other, smaller, anomalous areas were outlined.

Bulldozer trenching on the Shamrock outlined sulphides over a length of 750 feet. The older hand trenches, 1,400 feet to the north, were not bulldozed.

Five diamond drill holes have been drilled about the Shamrock deposit but cores or results are not now available.

Sampling of the trenches, by Delkirk, over a length of 100 feet, showed an average width of 17 feet averaging 1.42% copper. A shipment, made in 1929, averaged 5.78% copper.

CONCLUSIONS

The Nellie group contains good grade copper mineralization as disseminations and fracture fillings in Nicola rocks over an appreciable area and a large geochemical anomaly lies adjacent to the deposit.

RECOMMENDATIONS

The claims should be geologically mapped, some additional trenching and additional geochemical surveys should be made.

The anomalous areas should be diamond drilled if the Stage I work is positive.

ESTIMATED COSTS

Stage I

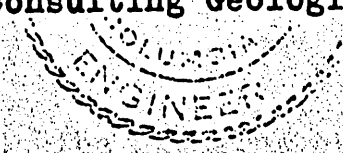
Geochemical Surveys	\$ 2,500.00
Camp & Travel	1,500.00
Trenching	4,000.00
Geological Mapping	5,000.00
Contingencies	1,000.00
Consulting	<u>1,000.00</u>
ESTIMATED TOTAL	<u><u>\$15,000.00</u></u>

Stage II

Diamond Drilling 1,500' @ \$10/Ft.	\$15,000.00
Travel & Camp	2,000.00
Assaying & Sampling	2,000.00
Geology & Supervision	2,000.00
Consulting	1,000.00
Contingencies	<u>3,000.00</u>
ESTIMATED TOTAL	<u><u>\$25,000.00</u></u>

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R E F E R E N C E S

Minister of Mines Report 1929, Page c 278.

Report for Delkirk Mining Limited by D.W. Burns,
B. Sc., P. Eng., November 24, 1969.

Report on Esther Claim Group for Delkirk Mining
Limited; R.W. Phendler, P. Eng., August 6, 1969.

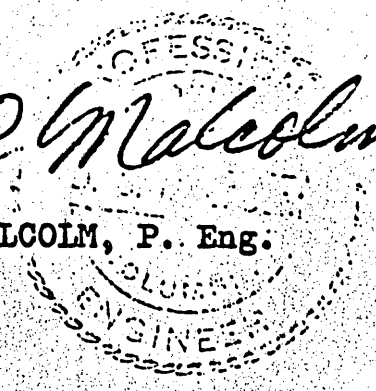
Geology and Mineral Deposits of the Princeton Area,
Memoir 243, Geological Survey of Canada by
H.M.A. Rice.

C E R T I F I C A T E

This is to certify that:

- (1) I, DOUGLAS COLE MALCOLM am a resident of Vancouver, B.C., and live at 2290 West 23rd Avenue.
- (2) I am a graduate of the University of British Columbia, with the degree of Bachelor of Applied Science in Geological Engineering (1935).
- (3) I am a member of the Association of Professional Engineers of British Columbia and Ontario and have practised my profession continuously since graduation.
- (4) I have not directly or indirectly received or expect to receive any interest direct or indirect in the property of BELCARRA MINES LIMITED (N.P.L.), or of any affiliate; or beneficially own, directly or indirectly, any securities of the company or of any affiliate.
- (5) This report is based on personal examination made on June 1, 1971. The claim posts of the principal claims, staked along Summers Creek, were examined.

D.C. Malcolm
D.C. MALCOLM, P. Eng.

A circular professional seal for a Professional Engineer in British Columbia. The seal contains the text "PROFESSIONAL ENGINEER" around the top and "BRITISH COLUMBIA" around the bottom. The name "D.C. MALCOLM" is written across the center of the seal in a stylized script.