

NAME OF PROPERTY INDEPENDENCE, FRM

LOCATION-Center of Lot 1696.

Uncertainty in metres - 150. Lat. 49°38'20" Long. 120°57'55"

Mining Division Similkameen District Yale

County Township or Parish

Lot S 1694, 1695, 1696, Concession or Range 1697

Sec. Tp. R.

OWNER OR OPERATOR AND ADDRESS

Fort Reliance Minerals Limited.

#### DESCRIPTION OF DEPOSIT

The Independence property is situated on the margin of the Eagle Granodiorite which intrudes members of the Nicola Group. These rocks are separated by a body of granite porphyry which is about three miles long and has a maximum width of one thousand feet. The porphyry is cut by dykes of Otter Granite which is believed to be a late phase of the Eagle Granodiorite. The principal mineral deposits occur in fissures along fracture zones in the porphyry and are replacement deposits of the Butte-type. The mineralization has progressed along the fissures and extends outwards into the country rock. Chalcopyrite, pyrrhotite, pyrite, sphalerite, chalcocite, tetrahedrite, molybdenite and cuprite are found in a gangue of altered granite porphyry, quartz, calcite and sericite. Assays run as high as 32.85% copper but the average grade is close to 3%.

Associated minerals or products of value - Molybdenum.

#### HISTORY OF EXPLORATION AND DEVELOPMENT

The Independence Group of four Crown-granted claims is located eleven miles northwest of Tulameen on Mount Henning at an elevation of 5,400 feet above sea level. It was located in 1901 and bonded to a New York syndicate who drove an adit. In 1906 the property was optioned to the Granby Consolidated Mining and Smelting Company, Limited, who completed 1,000 feet of adit and drifts, 265 feet of shaft sinking and a number of open cuts and test pits. The property remained idle from 1908 until 1926 when it was acquired by J. Holmes and associates. In 1927 the property was bonded to The Consolidated Mining and Smelting Company of Canada Limited who did some surface work and examine the underground workings. They relinquished their option the following year and the property again remained idle until the late forties when Frobisher Ltd. acquired the property. In 1956 it was owned by Panameric Ventures Limited. They optioned two adjoining claims and started a drilling programme. In 1958 St. Eugene Mining Corporation, Limited, did geological work on the property.

In 1964, Fort Reliance Minerals Limited acquired the Independence Group and 99 recorded claims comprising the FRM, Low and Panoka Groups which extend as far as the headwaters of Olivine Creek, six miles southwest of Tulameen. This company conducted trenching operations and magnetometer and geochemical surveys. The following year they optioned the property to Bethlehem Copper Corporation Ltd. who in turn assigned the contract to Bethex Explorations Ltd. Work included an induced potential survey, six bulldozer trenches and 1,804 feet of diamond drilling in four holes. The option was terminated the following year. In 1970 Fort Reliance Minerals Limited carried out a magnetometer survey and did geological work on the FRM claims.

# HISTORY OF PRODUCTION

# REFERENCES

Reports of Minister of Mines, British Columbia: 1906, p. 180; 1907, p. 144; 1908, p. 132; 1913, p. 237; 1924, p. 139; 1925, p. 180; 1926, pp. 196-197; 1927, p. 208; 1928, p. 227; 1958, p. 65; 1964, p. 100; 1965, p. 160; 1966, p. 245.

Geology, Exploration and Mining; British Columbia Dept. of Mines: 1970, p. 382.

Mineral Development Sector; Corporation Files: "Bethex Explorations Ltd."; "Bethlehem Copper Corporation Ltd."; "Cominco Ltd."; "Fort Reliance Minerals Limited"; "Westfield Minerals Limited".

Cairnes, C.E.; Coquihalla Area, British Columbia; Memoir 139, pp. 160-163, Geol. Surv. of Canada, 1924.

Camsell, C.; Geology and Mineral Deposits of the Tulameen District; Memoir 26, pp. 166-168; Geol. Surv. of Canada, 1913.

Rice, H.M.A.; Geology and Mineral Deposits of the Princeton Map-Area; Memoir 243, pp. 111-112, Geol. Surv. of Canada, 1947.

Stevenson, J.; Molybdenum Deposits of British Columbia; Bulletin 9, p. 92; British Columbia Dept. of Mines, 1940.

Morton, R.L.; The Geology and Hydrothermal Alteration of the Independence Porphyry Deposit, British Columbia; M.Sc. Thesis, McGill University, April 1970.

JULY 1973  
JUNE 1974

## MAP REFERENCES

Maps 888 A and 889 A, Princeton, (Geol. & Topo.), Sc. 1": 4 miles; Accomp. Memoir 243.

Map 92 H/NE (MI), Tulameen, Sc. 1":2 miles; B.C. Dept. of Mines and Petroleum Resources, 1969.

\*Map 92 H/7, Tulameen, (Topo.), Sc. 1:50,000.

## REMARKS

BCI 92 H/NE-6.