

NAME OF PROPERTY **SKEENA (MOONLIGHT) (NORTHWESTERN)**

OBJECT LOCATED

UNCERTAINTY IN METERS      Lat. **56°17'**      Long. **129°52'40"**

    Mining Division    **Skeena**                      District      **Cassiar**

    County                      Township or Parish

    Lot                      Concession or Range

    Sec                      Tp.                      R.

OWNER OR OPERATOR AND ADDRESS

DESCRIPTION OF DEPOSIT

The claims are underlain by argillite, quartzite, tuff, breccia, and greenstone of the Jurassic Hazelton group. A sill-like mass of quartz diorite and a number of light and dark coloured dykes intrude the sediments and volcanics. A wide fracture zone strikes northerly along the contact of volcanics on the west and argillite on the east. The mineral showings are of 4 different types: One type is represented by quartz, or quartz-calcite stringers 1 to 4 inches wide with variable strike and dips mainly northwesterly. A selected sample from one of these veins assayed: gold, 1.1 ozs. a ton; silver, 16 ozs. a ton; copper, 9.8%; lead, 0.7%; zinc, 3.6%. One quartz-calcite stringer  $\frac{1}{2}$  to  $1\frac{1}{2}$  ins. in width was mineralized with galena, sphalerite, chalcopyrite, and an occasional small branch of arborescent gold. A second type of mineralization consists of siliceous replacements that strike northwesterly and dip south-

see Card 2 ....

Associated minerals or products of value - Silver, lead, zinc, copper.

HISTORY OF EXPLORATION AND DEVELOPMENT

This property is located on the west side of American Creek, 24 miles north of Stewart. The claims extend from the creek, at about the 3,400 foot elevation, westward up the steep slope to the glacier, at about the 5,000 foot elevation.

A number of claim groups, staked on the showings prior to 1930, were held by the Northwestern Prospectors Syndicate, of Stewart. The Edith group, adjoining on the west, was owned and prospected by K. McLeod, of Stewart, in 1932.

Northwestern Aerial Prospectors, Limited, was formed in December 1929 to take over 15 claims, the Moonlight, Moonlight No. 1, Camp, Northern Nos. 1-8, and Pass Nos. 1-4. Intermittent work by the company was carried on until 1938 and included open cutting and stripping.

Napco Gold Mines, Limited, acquired the property in 1938 and located in addition the Northern No. 10, Protector, Precious, and Precious Nos. 1-3 claims. Work by the company included open cutting, and about 42 feet of cross-cut and 8 feet of drift in one adit. No further work was reported until 1955 when the Great North Mining Company, Ltd., acquired 29 claims and 3 fractions in the Skeena, American Belle, Ricadonna, A.B., and R.J. groups. Exploration work by the company included 150 feet of open cutting, and 700 feet of X-ray diamond drilling, some on the Moonlight vein, and some on the main shear zone.

Frontier Exploration Limited held the property under agreement during 1966. Work consisted of prospecting, trenching, and sampling.

## HISTORY OF PRODUCTION

In 1937 a shipment of 61.3 dry pounds of selected vein material returned an assay of 387.7 ounces of gold per ton and 164.4 ounces silver per ton.

## REFERENCES

- Mandy, J.T.; North-Western Mineral Survey District (No. 1); Report of Minister of Mines, British Columbia, 1937, pp. B20-B24.
- Annual Reports, Department of Mines, B.C.; 1930, p. 110; 1931, p. 45; 1932, p. 60; 1935, p. B29; 1938, p. B25; 1939, p. 66; 1955, p. 17; 1966, p. 41.
- Mineral Development Sector; Corporation Files: "North-western Aerial Prospectors, Limited"; "Napco Gold Mines, Limited"; "Frontier Exploration Limited".
- Hanson, George; Portland Canal Area, British Columbia; Memoir 175, p. 134, Geol. Surv. of Canada.
- Grove, Edward W.; Geology and Mineral Deposits of the Stewart Area; Bulletin No. 58, p. 139, British Columbia Dept. of Mines, 1971.

## MAP REFERENCES

Map 307 A, Portland Canal Area, (Geol.), Sc. 1":4 miles - accomp. Memoir 175.

Map 104 A, Bowser Lake, (Topo.), Sc. 1:250,000.

Claim Map, Sc. 1":1,950 ft., Report of Minister of Mines, British Columbia, 1937, p. B21.

## REMARKS

Comp./Rev. By		DMacR					
Date	5-67	10-74					

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## DESCRIPTION OF DEPOSIT (continued)

westerly in tuffs and argillites. The best mineralization is exposed over a width of 11.4 ft. for a strike length of 80 ft. In this section mineralized streaks 1 to 10 ins. wide occur on both the hanging and foot-walls with some cross-veinlets and blebs of mineralization extending into the central portion of the zone. The mineralization consists of galena, tetrahedrite, sphalerite, pyrite, and some chalcopyrite. A third type of mineralization consists of quartz replacements in a fracture zone 50 to 75 feet wide striking N21°E along the margin of the sediments and volcanics and adjacent to porphyritic rock. This zone consists of a network of quartz veins with intervening partly replaced areas which are mineralized with disseminated pyrite. The quartz is generally barren but a sparse mineralization with pyrite and sphalerite was seen in two small sections. A 4th type of mineralization is represented by a siliceous zone that strikes N40°W and dips steeply westward in sheared greenstone. Mineralized streaks and blebs of sphalerite, galena, and pyrite occur over an aggregate width of 9 feet within the replacement zone. An assay over the aggregate width of 9 feet gave: gold, trace; silver, 14.0 ounces a ton; copper, trace; lead, 1.0%; zinc, 4.2%.