

NAME OF PROPERTY

NORTH STAR

OBJECT LOCATED - North Star Fr. (Lot 3634).

UNCERTAINTY IN METRES 300. Lat. 55°41'08" Long. 129°30'35"

Mining Division Skeena District

County Township or Parish

Lot Concession or Range

Sec Tp. R.

OWNER OR OPERATOR

DESCRIPTION OF DEPOSIT

The property is underlain by massive Jurassic volcanic agglomerate and tuff of the Hazelton group. A complex zone, which ranges in width from a few feet to more than 80 feet and is without well defined walls, strikes between northward and northeastward and dips to the northwest. It comprises numerous veins, dykes, and wallrock and is cut by several faults. The lamprophyre dykes cut in and out of the zone more or less parallel to its strike; some of the dykes are post-mineralization in age, and other dykes may be of the same age. The faults cut the dykes and the mineralization. The mineral deposit is a quartz-barite vein up to 20 feet wide that strikes northeast and dips northwest about 45 degrees. The strike of the vein is roughly parallel to that of the dykes, but the angle of dip is different and the dykes cut the vein in many places. The vein is locally well mineralized with pyrite, galena, sphalerite, tetrahedrite, and silver minerals.

Diamond drilling and underground work by Torbrit Silver Mines is reported to have located a strong vein north of the zone of dykes.

Associated minerals or products - Lead, zinc, barite.

HISTORY OF EXPLORATION AND DEVELOPMENT

The North Star fractional claim (Lot 3634) is located on the west side of the Kitsault River about 14 $\frac{1}{4}$ miles north of the community of Alice Arm. The North Star workings are between elevations of 1,025 and 1,600 feet. The Dolly Varden No. 1 claim lies south of and adjoining the North Star. The Toric property lies adjoining to the east, directly across the Kitsault River.

The first report on the North Star claim was in 1916, when owner Gus Pearson was exploring the showings by means of open cutting. In 1918 the claim was Crown-granted to Gustaf Pearson of Alice Arm; the upper (No. 1) adit was driven at this time. In 1919 No. 2 adit was begun and intermittent work was carried on into 1921. During the period 1918 to 1922 the North Star claim was variously reported to be owned by Mr. Pearson, Ole Evindsen and E. Carlson, or by the McAleenan Bros., of Alice Arm, or by the Alice Arm Silver Mining Company. No work was reported on the property from 1921 until 1927 when the owners, Gus Pearson & associates, resumed work in No. 2 adit. The North Star Ore and Smelting Company, Limited was formed in December 1928 to take over and develop the claim. Development work was carried on in a new adit (No. 3) until the early months of 1929 when the mine closed. The company charter was surrendered in 1932. No activity was reported on the property from 1929 until 1956. In 1951 the claim was still owned by G. Pearson, O. Evindsen & associates, of Alice Arm.

The old workings consist of 3 adits between elevations of about 1,400 and 1,600 feet. The Upper (No. 1) adit is short; No. 2 adit totals about 250 feet of workings including 200 feet of drift and a short winze and raise at about 150 feet from the portal; No. 3 adit was driven 320 feet.

Torbrit Silver Mines, Limited optioned the North Star claim in June 1956. During 1956-57 a total of 7,563 feet of diamond drilling was done from the surface. This work indicated a strong vein north of the zone of dykes and the option on the claim was exercised. In 1958, adit No. 4 was begun at 1,025 feet elevation to investigate the diamond drill intersections. By August 1959, when work terminated, a total of 1,527 feet of drifting and crosscutting, and 12,343 feet of diamond drilling had been done in this adit.

see Card 2

HISTORY OF PRODUCTION

From 1919 to 1921 inclusive, 112 tons of ore were shipped from this property. From this ore 2,838 ounces of silver were recovered.

REFERENCES

+Black, J.M.; North Star; Report of Minister of Mines, British Columbia, 1951, pp. 82, 103-105.

++Hanson, George; Portland Canal Area, British Columbia; Memoir 175, p. 74, Geol. Surv. of Canada, 1935.

Reports of Minister of Mines, British Columbia: 1916, p. 79; 1918, pp. 57, 472; 1919, p. 54; 1920, p. 50; 1921, pp. 50, 272; 1922, p. 59; 1928, p. 86; 1929, p. 431; 1930, p. 94; 1956, p. 20; 1957, p. 7; 1958, p. 7; 1959, p. 8; 1962, p. 10; 1963, p. 12; 1966, p. 42.

Mineral Policy Sector; Corporation Files: "Torbrit Silver Mines, Limited"; "Dolly Varden Resources Limited".

Canadian Mining Journal: March 8, 1929, p. 221.

Exploration in British Columbia; BCDM: 1978, p. 238; 1980, p. 409.

Dawson, G.L. and Alldrick, D.J.; Geology and Mineral Deposits of the Kitsault Valley; Geological Fieldwork 1985, p. 219, BCDM.

Devlin, B.D. and Godwin, C.I.; Geology of the Dolly Varden Camp Alice Arm Area; Geological Fieldwork 1985, p. 327, BCDM.

MAP REFERENCES

Geology of Upper Kitsault Valley Area, Sc. 1":2,250 feet, Fig. 1, Report of Minister of Mines, British Columbia, 1951, p. 79.

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

#Map 103 P/12, Hastings Arm, (Topo.), Sc. 1:50,000.

Geology of the Dolly Varden property, Fig. 50-1, Geological Fieldwork 1985, p. 328.

REMARKS

Comp./Rev. By	DMacR	JL	DMacR				
Date	3-79	09-82	08-86				

PRODUCT SILVER

PROVINCE OR
TERRITORY British Columbia

N.T.S. AREA 103 P/12

REF. AG 12

NAME OF PROPERTY

NORTH STAR

HISTORY OF EXPLORATION AND DEVELOPMENT (continued)

Dolly Varden Mines Ltd. optioned the North Star, Toric, and Dolly Varden properties in 1961. During 1962-63 a total of 113 feet of raising was done in the North Star workings. The Sunshine Mining Company, of Spokane, held an option on the Dolly Varden properties from January 1964 to September 1965; no development work was done on the North Star claim during that period.

Newmont Mining Corporation of Canada Limited optioned the Dolly Varden properties in February 1967. Work during the year included geological mapping, and airborne and ground magnetic surveys over the main claims; the option was dropped at the end of the year. Proven, probable, and possible reserves were reported in 1971 at 253,212 tons averaging 9.11 ozs silver per ton, 1.17% lead, and 3.40% zinc. (Dolly Varden Ms L, AR 1971 & 1973).

Dolly Varden Mines Ltd. underwent name changes in November 1975 to Silver Dolly Resources Ltd, in October 1976 to Dolly Resources Ltd, and in April 1977 to Dolly Varden Resources Limited, 95% owned by Yorkshire Resources Limited. A geochemical survey was carried out over the area in 1978.

In 1979, by a process of amalgamation the name of the company was changed to Dolly Varden Minerals Inc. Dolly Varden Resources in December 1979 amalgamated with Yorkshire Resources under the name Dolly Varden Minerals Inc. Work on the property in 1980 by Torbrit Silver Resources Ltd included the rehabilitation of 335 m of adit and 388 metres of diamond drilling.