

NAME OF PROPERTY

DEBENTURE

OBJECT LOCATED -Debenture claim (Lot 6310).

UNCERTAINTY IN METRES 100. Lat. 54°58'50" Long. 126°52'30"

Mining Division Omineca District Range, 5 Coast

County Township or Parish

Lot Concession or Range

Sec Tp. R.

OWNER OR OPERATOR AND ADDRESS

DESCRIPTION OF DEPOSIT

The formation consists mainly of Jurassic andesite of the Hazelton group. A quartz diorite sill-like intrusive at least 10 feet thick is exposed about 200 feet below the adit. The formation strikes northwesterly and dips 40-45° southwest in the vicinity of the showings. Considerable faulting is evident in the adit. The No. 2 vein occurs in a fracture which cuts across the bedding and dips N78°. On surface the rusty zones which contain the vein are in part sericitized and silicified schists. These are mineralized with seams, fairly massive bands, and disseminations of galena. Sphalerite is present in smaller amounts. Silver occurs with the galena. Where intersected by the adit the vein is mineralized with galena in the form of seams and stringers within brecciated vein quartz and wall-rock fragments. A channel sample cut across a 4 foot vein width in the west wall of the adit 325 feet from the portal assayed: Lead, 6.54%; zinc, 3.64%; silver, 9.35 ounces per ton; gold, nil.

The No. 1 vein is exposed on a steep inaccessible bluff. It reportedly dips 75°S and has been traced intermittently for 200 feet.

Associated minerals or products of value - Lead, zinc.

HISTORY OF EXPLORATION AND DEVELOPMENT

The property is located at the 4,700 foot elevation on the south side of Debenture Creek, 18 miles northeast of Smithers.

The Debenture showings were staked in 1913 by Henry Bretzins and Alfred H. Morten. In 1915 the property was optioned by Thos. Rea and associates, of Chicago, who incorporated Debenture Creek Mines, Limited, in January 1916. A crosscut adit at the 4,700 foot elevation was driven 381 feet during the year, cutting No. 2 vein at 325 feet; the No. 1 vein was not intersected. The Debenture, Galena, Mogul, and B and M claims, Lots 6310 R.5-6313 R. 5, respectively, were Crown-granted to Bretzins and Morten in 1916. The Right Rim, Bison, and Centre Fr. claims, Lots 6314 R.5-6316 R.5, respectively, were Crown-granted to the company in 1918. No further activity was reported.

Cronin Babine Mines Limited by an option agreement of August 31, 1950, acquired from B.F. and H.L. Messner the above 7 Crown-granted claims and the Red Wing, Red Basin, and Red Pass located claims. No development work was reported.

B.F. Messner and associates in January 1964 incorporated a private company, Native Mines Limited, to acquire the Debenture, and other properties in the area. Apparently a new adit was driven about 100 feet at that time.

Wanda Mines & Explorations Ltd. held the 7 Crown-grants and 12 recorded claims during 1966-67. Sampling was reported.

HISTORY OF PRODUCTION

REFERENCES

McCartney, G.C.; A Report on the Debenture Property,
 Smithers, B.C., November 1950; in Cronin Babine Mines
 Limited file.

Reports of Minister of Mines, British Columbia: 1913, p. 108;
 1915, p. 77; 1916, pp. 91, 130, 520; 1918, p. 472; 1964,
 p. 52.

Mineral Policy Sector; Corporation Files: "Debenture
 Creek Mines, Limited"; "Sproatt Silver Mines Ltd.";
 "Wanda Mines & Explorations Ltd."

Hanson, G.; Driftwood Creek Map-Area, Babine Mountains,
 British Columbia; Summary Report 1924, Pt. A., p. 32,
 Geol. Surv. of Canada.

MAP REFERENCES

Map 69-1, Smithers, Hazelton, and Terrace Areas, (Geological
 compilation), Sc. 1":4 miles, British Columbia Dept. of
 Mines.

Map 671 A, Houston, (Geol.), Sc. 1":4 miles (1942).

Map 2048, Driftwood Creek, (Geol.), Sc. 1":1 mile - accomp.
 Summary Report 1924, Pt. A.

Map 5318 G, Driftwood Creek, (Aeromag.), Sc. 1":1 mile.

#Map 93 L/15, Driftwood Creek, (Topo.), Sc. 1:50,000.

REMARKS

Comp./Rev. By	DMacR						
Date	12-75						