PRODUCI	SILVER		TERRITORY					
NAME OF PROPER	TY	TORIC (TORBRIT)						
OBJECT LOCATED - Toric claim (Lot 935).								
UNCERTAINTY IN METRES 300. Lat. 55°41'15" Long. 129°30'20"								
Mining Division	Skeena	District						
County								
Lot								
Sec	Tp.	R.						

## OWNER OR OPERATOR

Dolly Varden Minerals Inc.

#### DESCRIPTION OF DEPOSIT

The mineralization, found mainly on the Toric claim, occurs in a massive, irregular-shaped quartz-barite body replacing a folded area in a series of Jurassic volcanic breccias, tuffs, and flow rocks of the Hazelton group.

A series of parallel, nearly vertical, fine-grained basic dykes cut across the formation at right angles to the strike of the mineralization over a horizontal distance of 140 feet.

Cutting the mineralized zones are several faults which, according to information so far available, have resulted in horizontal displacements in the order of 30 feet. There are also numerous smaller faults.

The quartz-barite apparently apexes before reaching surface except for two or three narrow tails which outcrop in Kitsault canyon and probably led to the original discovery.

The whole of the quartz-barite vein material, which ranges up to several hundred feet wide in places, carries silver values but commercial grade is confined to lenses and shoots where there have been more than usual concentrations of native silver

Associated minerals or products - Lead, zinc, barite.

see Card 2 ....

I I NOVINOL ON

British Columbia

N.T.S. AREA 103 P/12

REF. AG 11

#### HISTORY OF EXPLORATION AND DEVELOPMENT

The Toric property is located at the 1,000 foot elevation on the east side of the Kitsault River about  $14\frac{1}{4}$  miles north of the community of Alice Arm. The camp and concentrator used in the 1950's were located on the west side of the river about 3,000 feet south of the mine, the two being connected by a narrow-gauge railway. The Toric is adjoined on the north by the Tiger group and on the west by the North Star group.

Three claims, the Anglo, Toric and Moose were located by John and Gus Strombeck in about 1916; a fourth claim, the Lamb, was staked a year or so later. These claims (Lots 934-937 respectively) were Crown-granted to the Strombeck Bros. and Al Miner in 1925. Exploration and development work by the owners was done in open cuts and 3 adits.

The Consolidated Homestake Mining and Development Company, Limited bonded the property in August 1924 and crosscutting and drifting was begun on the 1,150 level. The company name was changed in 1926 to Toric Mines Company, Limited. A 50 ton per day mill was completed in 1927 but trial runs showed it was not suited to the ore; flotation units were installed early in 1928 and during the following year about 2,000 tons of ore were treated.

Britannia Mining and Smelting Co., Limited optioned the property from Toric Mines Company early in 1929. A new company Torbrit Mining Company, Limited was formed in November 1929 to hold and develop the property. Interest in the new company was held by Britannia (75%), and Toric Mines Company (25%). A program of underground development work and diamond drilling was begun in 1929 and continued until April 1930, when operations were suspended due to low prices of metals. The mine remained idle until 1946.

In the latter half of 1946 The Mining Corporation of Canada, Limited purchased the property from Torbrit Mining Company and a new company, Torbrit Silver Mines, Limited was formed to operate the mine; the vendors received 1/3 of the issued shares of the company. The company drove the 1,000 crosscut adit level and built a 300 ton per day mill; the mill rate was subsequently boosted to 400-450 tons per day. The mill operated from February 1949 until September 1959, when the mine was closed. The orebody has been developed by three adit levels at approximately 1,300, 1,150, and 1,000

see Card 2 ....

Mineral Policy Sector, Department of Energy, Mines and Resources, Ottawa

# HISTORY OF PRODUCTION

From 1928 to 1959 inclusive, 1,379,372 tons of ore were milled at this property. From this ore 111 ounces of gold, 18,646,304 ounces of silver, 10,732,873 pounds of lead, and 623,991 pounds of zinc were recovered.

# MAP REFERENCES

- Map 307 A, Portland Canal Area, (Geol.), Sc. 1":4 miles accomp. Memoir 175.
- Geology of Upper Kitsault Valley Area, Sc. 1":2,250 ft., Fig. 1, Report of Minister of Mines, British Columbia, 1951, p. 79.

#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

### REFERENCES

Reports of Minister of Mines, British Columbia: 1916, p. 78; 1918, p. 58; 1919, p. 54; 1920, p. 47; 1921, p. 53; 1922, p. 59; 1923, p. 60; 1924, p. 55; 1925, pp. 76, 359; 1926, p. 84; 1927, p. 75; 1928, p. 87; 1929, p. 86; 1930, p. 94; 1947, p. 94; 1948, pp. 71-75 +; 1949, p. 75; 1950, p. 79; 1951, p. 102 ++; 1952, p. 77; 1953, p. 90; 1954, p. 83; 1955, pp. 19, 20; 1956, p. 19; 1957, p. 7; 1958, p. 6; 1959, p. 8; 1962, p. 9; 1966, p. 42; 1967, p. 41. Hanson, George; Portland Canal Area, British Columbia; Memoir 175, p. 83, Geol. Surv. of Canada, 1935. Eardley-Wilmot, V.L.; Silver Producing Mines in British Columbia; Mineral Policy Sector, File MR-AG-301.00, British Columbia. +++Cormie, A.M.; Mining Methods at Torbrit Silver Mine; The Canadian Institute of Mining and Metallurgy, Bulletin, Vol. 44, No. 470, p. 399, 1951. Mines Branch, Ottawa; Investigations in Ore Dressing and Metallurgy; 1927, Rept. 695, pp. 119-122 (No. 278); July-December 1935, Rept. 771, pp. 155-161 (No. 656). Mineral Policy Sector; Corporation Files: "Toric Mines Company, Limited"; "Torbrit Mining Company, Limited"; "The Mining Corporation of Canada, Limited"; "Torbrit Silver Mines, Limited"; "Dolly Varden Resources Limited". Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1969, p. 60; 1978, p. E 238. Exploration in British Columbia; BCDM: 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. BCI 103 0 - P - 191

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P	RODUCT	SILVER		TERRITORY	British Golumbia	N.T.S. AREA 103 P/12	REF. AG 11
N/ D. ar ar N. e. d. l. i. t. s. m i. c. e. t.	AME OF PRO ESCRIPTIO nd silver t approxi 65°W. Th xcept at egrees. ength, ra n horizon The re arite, qu ncomplete ion of py ilver, sp inerals. nches to ontacts a xtends do he west a	DPERTY N OF DEPOSIT -bearing min mately 25 de e dip varies the apex of The commercinging from 1 tal length. placement de artz, jasper ly replaced rite and gal halerite, ch The mineral several feet nd to the sc wn dip for m nd east.	TORIC (TORERIT) (continued) erals. The ore-bearing grees along an axis si from 35 to 40 degrees the body, where it stal grade shoots vary 0 to 80 feet wide and posit is composed print, and carbonates, and country rock. It inci- ena, and a smaller pr alcopyrite, and possi ization is arranged in in width that are su histosity in the wall- ore than 500 feet and	ng structure plun triking roughly s to the northeas eepens to nearly greatly in width from 200 to 400 ncipally of hemat a small amount o ludes a small pro oportion of nativ bly of other meta n bands from a fe bparallel to the s. The mineraliz fingers out towa	HISTORY OF EXPL foot elevations shaft was sunk winze from the inclusive a tot on the "upper s the Moose and L project was aba Dolly Varde and equipment i Sunshine Mining Dolly Varden pr 1965, however n carried out som Newmont Min the Dolly Varde included geolog surveys over th end of the year the Dolly Varde confined to the 1970. Dolly Varde confined to the 1970. Dolly Varde confined to the 1970. Dolly Var probable, and p 9.10 ozs silver Varden Mns L, 1 The company Dolly Resources Ltd., and in Ap 95% owned by Yo survey was carr In 1979, by company was cha amalgamating co Dolly Varden Re Limited, Kitsau Ltd. Work duri	ORATION AND DEVELOPMENT (cont , the latter being the main h from the surface to the 800 1 800 to the 700 level. During al of 9,680 feet of diamond o howings" which are silver-bea amb claims; results were unfa ndoned. n Mines Ltd. acquired the Ton n 1961 under an option agreen ; Company, of Spokane, held an operties from January 1964 to o work was reported. Dolly V e underground work in 1966. ing Corporation of Canada Lin n Mines holdings in February ical mapping, and airborne an e main claims; the option was . Bralorne Can-Fer Resources n properties in October 1969: Wolf property and the option rden Mines Ltd. in 1971 repon ossible reserves at 866,812 f per ton, 0.42% lead, and 0.5 971 AR). name was changed in November Ltd., in October 1976 to Dol ril 1977 to Dolly Varden Reso rkshire Resources Limited. A ied out over the property in a process of amalgamation th nged to Dolly Varden Minerals mpanies were: Yorkshire Reso sources Limited, Yorkshire Co It Silver Mines Ltd. and Copp ng 1980-81 included rehabilit m of shaft.	inued) aulageway. A evel and a ; 1955-57 willing was done wourable and the brit mine, mill ent. The option on the September Varden Mines wited optioned 1967. Work d ground magnetic dropped at the Limited optioned work was expired in April ted the proven, ons averaging 50% zinc (Dolly 1975 to Silver ly Resources surces Limited, geochemical 1978. e name of the s Inc. The purces Limited, opper Mines per Cliff Mines ation of 684 m