

PRODUCT SILVER
PRODUIT

PROVINCE OR PROVINCE OU
TERRITORY TERRITOIRE British Columbia

N.T.S. AREA 92 J/3
RÉGION DU S.N.R.C.

REF. AG 1
RÉF.

NAME OF PROPERTY
NOM DE LA PROPRIÉTÉ SUNNY CAVE (BLUE JACK)

OBJECT LOCATED - Adit at 2,200' elevation.
OBJET LOCALISÉ

UNCERTAINTY 300 m
FACTEUR D'INCERTITUDE

Lat. 50°03'55"
Lat.

Long. 123°08'45"
Long.

Mining Division Vancouver
Division minière

District
District

New Westminster

County
Comté

Township or Parish
Canton ou paroisse

Lot
Lot

Concession or Range
Concession ou rang

Sec
Sect.

Tp.
Ct.

R.
R.

OWNER OR OPERATOR/PROPRIÉTAIRE OU EXPLOITANT

DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT

The showings occur within northwest trending roof pendants of Upper Triassic Pioneer Formation volcanic and volcanic-sedimentary rocks within the Coast Plutonic Complex. The Silver Tunnel showing occurs in a wide northerly striking shear zone with a westerly dip of 60 to 70 degrees. The shear-zone contains scattered lenses, disseminations, and streaks of pyrite, sphalerite, and galena at widely separated points on the surface and underground.

Zone 4 (Lat: 50°04', Long: 123°07') is a skarn deposit containing sphalerite, galena, pyrite, and minor chalcopyrite. Three out of four holes drilled in 1977 cut the zone over widths of 10 to 15 feet. Hole #2 assayed 4.43% zinc, 0.41 oz/t silver, and 0.28% copper over 10 feet.

The mineralization on the property appears to occur in isolated pockets of high-grade values or in lower grade disseminated zones.

HISTORY OF EXPLORATION AND DEVELOPMENT
HISTORIQUE DE L'EXPLORATION ET DE LA MISE EN VALEUR

The showings are located between elevations of 2,100 and 2,675 feet on both sides of Snow (Swede) Creek, a small southerly flowing tributary of Brandywine Creek, about 2.25 miles northwest of Brandywine Falls and 55 miles north of Vancouver.

The Blue Jack group of 8 claims was staked in 1923 by A.L. Snow and associates and annual assessment work was done in open cuts and adits. Two companies were incorporated by A.L. and R.B. Snow under identical names, Blue Jack Mines, Limited, the first in September 1932 and the other in March 1936; the charters were surrendered in 1939 and 1940 respectively. The surface workings were distributed over a length of 1,030 feet through a vertical range of 575 feet. Three adits were driven; one at the 2,650 foot elevation comprised 147 feet of drifts and crosscuts; one at the 2,600 foot elevation totalled 132 feet of drifts and crosscuts; a low-level adit at the 2,200 foot elevation was begun in 1933 and during 1935 and 1936 was driven to a total length of 682 feet.

No further activity was reported until 1962 when M.H. Levasseur & associates began prospecting and staking the area. The Star Nos. 1 and 2, Sunny Cave, and Sunny Cave 1-3 claims were staked on Blue Jack showings. Mr. Levasseur and associates incorporated Van Silver Explorations Ltd. in September 1966. Rehabilitation of the existing adits was begun in 1966. Work during 1967 included geological mapping, magnetic and electromagnetic surveys on the Sunny Cave 1-4 and Vern No. 8 claims, and X-ray diamond drilling in 3 holes totalling 85 feet.

Sheep Creek Mines Limited optioned the property in 1968 and diamond drilling on the main Blue Jack showings was done in 3 holes totalling 602 feet; the option was subsequently dropped.

The holdings of Van Silver were gradually expanded over the years and in 1969 comprised 132 claims extending from about 1 mile south to 5 miles north of Brandywine Falls and surrounding the Callaghan (92 J/3, AG 2) and Brandywine (92 J/3, AU 2) properties. Work on the Blue Jack during 1969 was confined to rehabilitation of the lower adit.

see Card 2

Associated minerals or products - Gold, zinc, lead, copper.
Minéraux ou produits associés

Mineral Policy Sector, Department of Energy, Mines and Resources, Ottawa
Secteur de la politique minière, ministère de l'Énergie, des Mines et des Ressources, Ottawa

512179

HISTORY OF PRODUCTION/HISTORIQUE DE LA PRODUCTION

During 1977, 8,067 tonnes of ore were milled. From this ore 1 381 g gold, 157 468 g silver, 1 290 kg copper, 6 764 kg lead, and 9 857 kg zinc were recovered.

REFERENCES/BIBLIOGRAPHIE

Reports of Minister of Mines, British Columbia:
 1924, p. 243; 1925, p. 300; 1926, p. 332;
 1927, p. 364; 1929, p. 398; 1930, p. 310;
 1932, p. 210; 1934, p. F 14; 1936, pp. F56-
 F58; 1967, p. 61; 1968, p. 74.

Geology, Exploration, and Mining; British Columbia Dept.
 of Mines: 1969, p. 191; 1970, p. 231; 1971, p. 306;
 1973, p. 243; 1974, p. 198; 1976, p. E 121; 1978,
 p. E 174.

Geological Fieldwork; British Columbia Dept. of Mines:
 1977, pp. 96-102⁺.

Mineral Policy Sector; Corporation Files: "Blue Jack
 Mines, Limited"; "Silver Tusk Mines Ltd."; "Brandy
 Resources Inc."

Exploration in British Columbia; British Columbia Dept. of
 Mines: 1979, p. 182; 1980, p. 246; 1983, p. 300.

MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

Callaghan Creek, (Geol.), Sc. 1":1 mile, Fig. 19, Geological
 Fieldwork, 1977, p. 98.

#Brandywine Creek Claim Group, Sc. 1": $\frac{3}{4}$ mile - in Van Silver
 Explorations Ltd. Statement of Material Facts, Oct. 20,
 1975.

*Map 93 J/3, Brandywine Falls, (Topo.), Sc. 1:50,000.

REMARKS/REMARQUES

Comp./Rev. By Comp./rév. par	DMacR	DMacR					
Date Date	08-81	05-86					

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HISTORY OF EXPLORATION AND DEVELOPMENT (continued)
HISTORIQUE DE L'EXPLORATION ET DE LA MISE EN VALEUR

Noranda Exploration Company, Limited optioned the property in 1970. Work during 1970 and 1971 included 59.8 line-miles of electromagnetic survey, 4.7 line-miles of induced potential survey, a soil geochemical survey, percussion drilling totalling 2,000 feet in 7 holes on Sunny Cave and Sunny Cave 1-4 claims, and surface diamond drilling totalling 2,733 feet in 9 holes on Sunny Cave 1-12 and other claims. The option was subsequently dropped.

Van Silver during 1973-74 carried out geological mapping, sampling, and 2,461' of diamond drilling in 15 holes. An agreement of October 1974 as to Van Silver Explorations Ltd (70%) and Tedi Resources Ltd (30%) provided for the joint venture development of the Sunny Cave and the nearby Tedi property (92 J/3, AG 2). Van Silver Mines Ltd was formed in November 1976 by the amalgamation of the two above companies.

Reserves for the Silver Tunnel zone were reported as follows:

Block A, probable 111,800 tons averaging .008 ounce gold and 12.10 ounces silver per ton, 0.19% lead, and 0.43% zinc.

Block B, possible 161,200 tons of similar grade.

Block C, possible 60,700 tons averaging 0.02 ounce gold and 11.6 ounces silver per ton, 0.27% lead, and 0.45% zinc. (Northern Miner, July 8, 1976, p. 16).

A 150 ton per day mill was installed and operated between September 7 and December 22, 1977 on ore from the Silver Tunnel, Main showing pit, and Tedi pit; ore grades proved to be erratic. The company was placed in Receivership on Dec. 23, 1977. Cominco Ltd. examined the property under a 4 month option agreement in 1978; work included 214 m of dd in 2 holes.

Van Silver Mines in April 1979 changed its name to Silver Tusk Mines Ltd. Two private companies, Brett Holdings Ltd and Georgia West Enterprises Ltd, in September 1979 optioned an 80% interest in the property and mill. The option was assigned to Brandy Resources Inc, a newly formed company controlled by Northair Mines Ltd. Work by Crack Resources Ltd in 1980 under

continued above

an option agreement included airborne electromagnetic and magnetometer surveys, a geochemical soil survey, and 4 345 metres of surface diamond drilling in 39 holes on the Silver Tunnel, Main, and Tedi zones. A new adit about 27 metres below the old Silver Tunnel was driven to a length of 176 metres with a 31 metre connecting raise to the old workings. This work failed to locate sufficient ore reserves to warrant a resumption of production. Sufficient expenditures were made to exercise the option, giving Brandy Resources an 80% interest, with Silver Tusk retaining a 20% carried interest. The property was restaked during 1980 as the Van 23, 29-37, Van V and Brandy 1-12 (178 units). In 1983 Brandy Resources carried out a geochemical soil survey (1,259 samples).

Brandy Resources Inc in August 1984 merged with Vital Resources Ltd under the name Vital Pacific Resources Ltd.