

NAME OF PROPERTY  
NOM DE LA PROPRIÉTÉ

BLACK DOME No. 2

OBJECT LOCATED  
OBJET LOCALISÉ

UNCERTAINTY 200 m No. 1 vein 51°19'40" 122°29'05"  
FACTEUR D'INCERTITUDE Ridge Zone Lat. 51°19' Long. 122°29'45"

Mining Division <i>Division minière</i>	Clinton	District <i>District</i>	Lillooet
County <i>Comté</i>		Township or Parish <i>Canton ou paroisse</i>	
Lot <i>Lot</i>		Concession or Range <i>Concession ou rang</i>	
Sec <i>Sect.</i>	Tp. <i>Ct.</i>	R. <i>R.</i>	

OWNER OR OPERATOR/PROPRIÉTAIRE OU EXPLOITANT

Blackdome Mining Corporation

DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT

The rocks underlying Black Dome Mountain are almost entirely volcanic in origin and range in age from Eocene to Pliocene according to Tipper (1978). Host rocks for the mineralization are mainly hornblende andesite in the central and northern sections of the property and flow-banded rhyolite and breccias in the south Ridge zone (Fig. 14). Aphyric andesite and dacite lavas are peripheral to the map-area and form a thick base to the local Tertiary volcanic pile. Dacitic andesite lavas and dykes postdate the principal mineralized units in the southern part of the property. The youngest rocks are olivine basalt dykes, lavas, and agglomerate forming the summit of Black Dome Mountain.

The so-called No. 1 vein, located on Black Dome No. 2 claim, is actually an assemblage of splayed quartz stringers, lenses, and silicified breccia within hornblende andesite; the vein has been traced for 540 feet. No. 2 vein, on Black Dome No. 1 claim, has been traced for a length of 960 feet, with a maximum width of 2 feet.

The Ridge zone follows the southwest spur of Black Dome Mountain and is aligned more or less with No. 1 vein but

Associated minerals or products - Silver. see Card 2 ...  
*Minéraux ou produits associés*

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

The property is located at elevations of 6,500 to 7,000' on the south end of Black Dome (Porcupine) Mountain, some 48 miles north-northwest of Lillooet.

Numerous claims were staked on Black Dome mountain in 1948 following the discovery of gold-bearing veins by Lawrence Frenier. Eight claims adjoining to the south of Frenier's ground (92 0/8, Au 1) were staked by Norman Hillborn; trenching was reported. By 1954 this ground has in part been acquired by W. Schrader as the Black Dome No. 1 and No. 2 claims.

Wilson Mining Corporation, Limited optioned the claims in 1954 and carried out stripping and sampling of the No. 1 and No. 2 veins, on Black Dome No. 2 and No. 1 claims respectively. Diamond drilling was done in 6 holes totalling 783 feet on No. 1 vein. This work indicated a vein segment containing 37,000 tons averaging 0.284 ounce gold and 1.8 ounces silver per ton over an average width of 8.2 feet (Silver Standard Mines Limited, Annual Report, March 31, 1958).

Silver Standard Mines acquired a 65% interest in 16 claims in 1957. Assessment work was reported in subsequent years. By 1960 the property had been reduced to 4 claims owned by Silver Standard (65%) and Wilson Mining (35%).

Blackdome Exploration Ltd. was incorporated in June 1978 under the sponsorship of Barrier Reef Resources Ltd. for the purpose of unifying and exploring all the claims on Black Dome mountain. Silver Standard and Wilson Mining by an August 1978 agreement, and subject to prior option agreements with Messrs. Schrader and Hillborn, transferred the Black Dome 1-4 claims to Blackdome Exploration in exchange for a one-third vendor interest in the new company. Diamond drilling began in 1979 and to the end of 1980 totalled 28,500' in 106 holes. This work indicated 122,000 tons at 0.46 oz/t Au, 4.67 oz/t Ag in No. 1 vein, and a high-grade section of 75,000 tons at 0.55 oz/t Au, 5.66 oz/t Ag in the Ridge zone of No. 1 vein (Northern Miner 23/10/80). A crosscut adit begun in 1981 intersected the Ridge zone of No. 1 vein at 470' and by the end of the year 1,110' of drifting and 2 raises had been completed.

Heath Steel Mines Limited, a wholly owned Noranda subsidiary, in February 1982 optioned a 55% interest in the property. Drilling by Heath in 1982 totalled 15,000' in 37 holes, 34 of see Card 2 ....

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HISTORY OF PRODUCTION/HISTORIQUE DE LA PRODUCTION

Year	Tons Milled	Grade Au oz/ton	Grade Ag oz/ton	Au oz	Ag oz
1986	38,267	0.86	3.17	29,807	28,860
1987	81,571	0.62	2.18	46,698	126,520
1988	87,519	0.63	2.96	51,629	182,106

REFERENCES/BIBLIOGRAPHIE

Reports of Minister of Mines, British Columbia: 1948, p. 92; 1954, p. 98.

Mineral Policy Sector; Corporation Files: "Silver Standard Mines Limited"; "Blackdome Exploration Ltd."; "Heath Steel Mines Limited"; "Consolidated Barrier Reef Resources Ltd."; "MinVen Gold Corporation".

+Geological Fieldwork, British Columbia Dept. of Mines: 1979, pp. 52-54 (Paper 1980-1); 1981, p. 106.

Tipper, H.W.; Taseko Lakes Map-Area, Open File 534, Geol. Surv. of Canada, 1978.

George Cross News Letters: 19/03/83; 13/09/83; 10/11/83; 27/02/84; 23/05/84; 21/06/84; 28/06/84; 9/08/84; 16/09/84; 21/09/84; 28/02/85; 12/04/85; 17/05/85; 28/05/85; 10/06/85; 1985, Nos. 42, 71, 165, 196; 1986, Nos. 30, 69, 96.

Exploration in British Columbia; British Columbia Dept. of Mines: 1980, p. 292.

MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

#Geology of Black Dome Mountain, Sc. 1":2,300', Fig. 14, Geological Fieldwork, 1979, p. 53, British Columbia Dept. of Mines.

Claims and principal veins, Porcupine Mountain, Sc. 1":800 ft., Report of Minister of Mines, British Columbia, 1954, p. 99.

Geology in the vicinity of the Ridge Zone of No. 1 vein, Sc. 3.1 cm:100 metres, Geological Fieldwork, 1981, p. 108.

\*Map 92 0/8, Empire Valley, (Topo.), Sc. 1:50,000.

Geological Map, Sc. 1:20,000 and South Mine Workings, Sc. 3.15 cm:100 metres, in George Croww Newsletter 9/08/84.

REMARKS/REMARQUES

See also: Black Dome 92 0/8, Au 1.

Comp./Rev. By Comp./rév. par	DMacR	JL	DMacR	DMacR	DMacR	JL	
Date Date	10-80	09-82	06-83	05-85	05-86	02-90	

PRODUCT GOLD  
PRODUIT

PROVINCE OR PROVINCE OU  
TERRITORY TERRITOIRE

British Columbia

N.T.S. AREA 92 0/8  
RÉGION DU S.N.R.C.

REF. AU 2  
RÉF.

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DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT (continued)

separated from it by several hundred metres of rather barren andesite and crosscutting dacite dykes. The section of the Ridge zone of apparent economic potential lies within a pod of silicified breccia in rhyolite measuring 400 metres in strike length and from 1 to 30 metres wide.

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

them on the No. 1 vein structure. This work increased the overall drill-indicated reserves to 455,000 tons at 0.32 oz/t Au, 2.7 oz/T Ag (Northern Miner 24/03/83).

In 1983 Heath Steel explored the high-grade zone on No. 1 vein by a new crosscut adit at 1 960 metre elevation (North Mine), located about 4,000' north of the Ridge Zone (South Mine). Approximately 2,000' of drifting in this adit failed to expand the known reserves. Noranda Mines Limited dropped the option late in 1983. At that time Noranda held a 19.2% interest in Blackdome Exploration.

In 1984 exploration work was resumed by Blackdome under the management of Barrier Reef; the company name was changed in September 1984 to Consolidated Barrier Reef Resources Ltd. Some 2,300' of drifting and 530' of raising was done in extending the 1 960 metre elevation adit on the Ridge zone, including a crosscut 90' west to No. 2 vein and 270' of drifting on that vein. Late in the year a new 1 930 metre elevation crosscut was driven 900' to cut the No. 1 and No. 2 veins. High-grade reserves in all classes were estimated at 203,000 tons averaging 0.79 oz/t Au and 3.76 oz/t Ag (George Cross News Letter, 28/02/85, p. 1). A feasibility study was completed and construction of a 200 ton per day mill began in 1985. New financing agreements increased Consolidated Barriers interest in Blackdome from 19.2 to 45.4% to 51.4% by early 1986; the company name was changed to Blackdome Mining Corporation. The mill was put into operation in April 1986. MFC Mining Finance Corporation acquired control of Blackdome and in 1988, became MinVen Gold Corporation.