

PRODUCT GOLD
PRODUIT

PROVINCE OR TERRITORY PROVINCE OU TERRITOIRE

British Columbia

N.T.S. AREA 82 F/4
RÉGION DU S.N.R.C.

REF. AU 3
RÉF.

NAME OF PROPERTY
NOM DE LA PROPRIÉTÉ

MIDNIGHT

OBJECT LOCATED - Midnight claim (Lot 1186).
OBJET LOCALISÉ

UNCERTAINTY 150 m
FACTEUR D'INCERTITUDE

Lat. 49°04'20"

Long. 117°50'20"

Mining Division
Division minière

Trail Creek

District
District

Kootenay

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 claim is underlain by fine-grained, massive andesite of the Mount Roberts formation. These rocks are intruded by many lamprophyre dykes, up to 10 feet wide, that strike roughly N15°W and dip 45° to 75°E. At least some of these dykes are earlier than the Midnight veins. Two veins have been explored: the east end of the A vein of the I.X.L. claim, and a northerly striking vein in what has been called the lower Midnight adit. This northerly striking vein dips 45° to 55°W and varies in width from 2" to 6 feet. This vein has been explored for a distance of 300 feet and two branch veins from it have been traced near its northern end. The vein matter is quartz and some ankerite, with pyrite, a little galena, and free gold. Chalcopyrite, though present in the veins, is not sufficiently abundant to be recoverable. Much of the gold occurs in small high-grade pockets. The individual veins are not a continuous body of quartz, rather they are tight fractures which every 50 feet or so contain quartz disks or lenses from 8 inches to 2 feet thick, 50 to 100 feet long, that pinch and swell in both horizontal and vertical sections.

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Associated minerals or products - Silver, lead, zinc, nickel
Minéraux ou produits associés

HISTORY OF EXPLORATION AND DEVELOPMENT

HISTORIQUE DE L'EXPLORATION ET DE LA MISE EN VALEUR

The Midnight claim, located on the west side of Little Sheep creek a mile west of Rossland, was Crown-granted in 1897. No work was reported done on the property until leasers began operations in 1925. The claim was owned by T.S. Gilmour in 1930. A small mill (8 tons/24 hours) was installed on the property in 1932. Leasers continued to work the property until it was purchased by B.A. Lins in 1940. Intermittent operations were carried on by Lins until Kootenay Central Mines Ltd. purchased the property in 1948. Small scale operations were continued by the company or by leasers until 1952. Midnight Consolidated Mines Ltd. acquired the property in 1956.

A private company, headed by Messrs. Thompson and Sheward, began rehabilitation of the workings in 1964. Cinola Mines Ltd. acquired an interest in the Midnight Crown-grant (Lot 1186) and 12 adjacent recorded claims in 1965. The old workings were rehabilitated, short drifts and raises were driven, and diamond drilling totalling 2,000 feet on surface and 3,000 feet from underground was carried out. In 1966 a new adit (3,100 foot level) was begun 150 feet below the old workings and during 1967 about 1,000 feet of drifting and raising was done, including a raise to the old workings. Further drifting, raising, and stoping was carried on in 1968 and a small amount of ore shipped. Tull Mines Ltd., incorporated May 1968, agreed to participate in bringing the property to production. Construction of a 100 ton per day mill was begun late in 1968 but was not completed under the agreement. Federated Mining Corporation Ltd. optioned a 50% interest in the property from Cinola Mines in 1970 and mill construction was completed during the year. Some stope preparation and stoping was done to supply the mill with sufficient ore for recovery tests. Mill tune up operations reportedly began in June 1970 but subsequent modifications were required due to metallurgical problems. The mill operated briefly early in 1971; no production data has been released. All work at the property ceased in September 1971.

The company name was changed in January 1973 to Consolidated Cinola Mines Ltd. During the year about 219 tons of ore, mainly cleaned up from the idle mill on the property, was shipped to Trail. A November 1974 agreement between Consolidated Cinola and Sand Mines Ltd. called for the latter company to advance all necessary capital to put the property into production. Consolidated Cinola is to receive 20%, and Federated Mining 10%, of net smelter returns. Underground rehabilitation, development, and diamond drilling was begun.

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

HISTORY OF PRODUCTION/HISTORIQUE DE LA PRODUCTION

From 1927 to 1952, 4,085 tons of ore were shipped from this property. From this ore 6,501 ounces of gold, and 3,777 ounces of silver were recovered.

In 1968, 789 tons of ore were shipped. From this ore 340 ounces of gold, 247 ounces of silver, 2,414 pounds of lead, and 1,710 pounds of zinc were recovered.

From 219 tons of crude ore shipped in 1973, 131 ounces of gold, 77 ounces of silver, 879 pounds of lead, and 855 pounds of zinc were recovered.

From 327 tons of crude ore shipped in 1974, 99 ozs gold, 145 ozs silver, 137 lbs copper, 1 330 lbs lead, and 654 lbs zinc were recovered. From 822 tonnes shipped by Sand Mines L. in 1975-76, 17.356 kg gold, 20.186 kg silver, 425 kg copper, 1 305 kg lead, and 583 kg zinc were recovered. From 42 tonnes shipped by Carnelian Mines in 1979, 5.319 kg gold, 3.764 kg silver, 183 kg copper, 144 kg lead, and 42 kg zinc were recovered.

MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

Map 1090 A, Nelson, B.C., (Geol.), Sc. 1":4 miles - accomp, Mem. 308.

#Mineral Reference Map No. 5, Trail Creek & Nelson, B.C., (Claim Map), Sc. 1":1 mile, Dept. of Lands, B.C., 1930.

*Map 82 F/4 W, Rossland-Trail, B.C., (Topo.), Sc. 1:50,000.

Geological Map of the Rossland Area, Sc. 0.85 cm: 100 m, Fig. 2, accomp. Bulletin No. 74.

REMARKS/REMARQUES

REFERENCES/BIBLIOGRAPHIE

Little, H.W.; Nelson Map-Area, West Half, British Columbia; Memoir 308, p. 171, Geol. Surv. of Canada, 1960.

Annual Reports, Dept. of Mines, B.C.: 1935, pp. E 9-11; 1956, p. 77; 1966, p. 199; 1967, p. 235; 1968, p. 236.

Mineral Policy Sector; Corporation Files: "Midnight Mine"; "Kootenay Central Mines Ltd."; "Cinola Mines Ltd."; "Federated Mining Corporation Ltd."; "Tagus Resources Ltd."

Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1969, p. 315; 1970, p. 437; 1971, p. 403; 1973, p. 61.

Fyles, J.T.; Geological Setting of the Rossland Mining Camp; Bulletin No. 74, p. 23, British Columbia Dept. of Mines, 1984.

Pasiaka, C.T.; Report on the Midnight Group of Claims; 22/11/79, in Tagus Resources Ltd. Statement of Material Facts, 19/02/80.

George Cross News Letter: 1987, No. 192

Comp./Rev. By Comp./rév. par					DMacR		
Date Date	11-65	10-71	10-73	05-75	11-87		

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MIDNIGHT

HISTORY OF EXPLORATION AND DEVELOPMENT (con't)

DESCRIPTION OF DEPOSIT (con't)

Sampling of underground workings in 1969 near the northern contact of a mass of serpentinite along the side of Little Sheep creek, gave indications of several thousand tonnes of serpentinite averaging 0.25 % nickel.

Small shipments of crude ore were made in 1975 and 1976.

Carnelian Mines Ltd. held the property in 1979 and reported a small shipment of crude ore. Tagus Resources Ltd. sub-optioned the property from Carnelian in December 1979; the agreement was abandoned in 1980 following limited diamond drilling and sampling.

Drexore Developments Inc. optioned the property in 1987.