

PRODUCT
PRODUIT

COPPER

PROVINCE OR
TERRITORY PROVINCE OU
TERRITOIRE

British Columbia

N.T.S. AREA 104 G/7
RÉGION DU S.N.R.C.

REF. CU 2
RÉF.

NAME OF PROPERTY
NOM DE LA PROPRIÉTÉ SCHAFT CREEK (LIARD COPPER) (BIRD) (NABS)

OBJECT LOCATED - Main zone.
OBJET LOCALISÉ

UNCERTAINTY 300 m FACTEUR D'INCERTITUDE	Lat. 57°21'55" Lat.	Long. 130°59'30" Long.
Mining Division Liard Division minière	District District	Cassiar
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

This porphyry copper-molybdenum deposit occurs mainly in Triassic highly altered andesitic pyroclastic and fragmental volcanics near the contact of the quartz diorite to granodiorite Hickman batholith. Primary mineralization is chalcopyrite with lesser bornite and molybdenite as fracture fillings in volcanics and partly as disseminations in intrusive rocks.

Associated minerals or products
Minéraux ou produits associés

- Molybdenum, gold, silver,

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

The property is located at 3,500' elevation on the east side of Schaft Creek some 60 km south of Telegraph Creek.

The showings were discovered and staked as the Bird 1-4 claims in August 1957 by prospector Nick Bird for the Bik Syndicate; the Syndicate was comprised of Silver Standard Mines Limited, McIntyre Porcupine Mines Limited, and Kerr Addison Mines Limited. In 1959 the claims were under option to Kennco Explorations (Western), Limited, and 42 additional claims (Bird 5-46) were located for the company. Kennco carried out detailed geological, geophysical, and geochemical surveys in 1959. The option was subsequently dropped.

Silver Standard expanded the property by staking the Sno, Bird, Nov, I.D. and Gav groups to a total of 124 claims, carried out geochemical and geophysical surveys, and in 1965, about 2,060' of diamond drilling in 3 holes. The Bik Syndicate in January 1966 incorporated Liard Copper Mines Ltd as a private company with Silver Standard holding a 65.6% interest.

American Smelting and Refining Company optioned the property in 1966. Work in 1966-67 included an induced potential survey over a two square mile area and 11,941' of diamond drilling in 24 holes; indicated grades were low and the option was abandoned in August 1967.

Ground adjoining to the northwest and held as the Nab group (34 claims) was acquired by Paramount Mining Ltd, a private company, in February 1966. Work on these claims in 1966-67 included induced potential, ground magnetometer and soil geochemical surveys, 1,500' of trenching and one AX-size hole to a depth of 501 ft.

The Hecla Mining Company optioned the Liard Copper property in 1968 and the Paramount property in 1969. Work in the period 1968-73 on the combined properties included magnetometer and induced potential surveys, and percussion and diamond drilling totalling 89,487' in 77 holes. Drill indicated reserves on Liard Copper ground were estimated at 294,000,000 tons averaging 0.40% Cu, 0.036% molybdenite (Silver Standard Mines Limited, 1972 Annual Report). Reserves on Paramount ground were estimated (Sept/73) by

p.t.o.

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

Dolmage, Campbell & Associates at 100,000,000 tons averaging 0.329% Cu, 0.048% molybdenite (Paramount Mining Limited Statement of Material Facts, 22/04/75). Hecla dropped the option on the Paramount ground in 1973. Work by Hecla on the Liard Copper ground in 1974 included 7,062' of diamond drilling in 6 holes.

Teck Corporation in December 1978 acquired from Hecla its option to earn a 70% interest in the Liard Copper property by bringing to production. The Paramount Mining property was apparently acquired earlier that same year; mapping and prospecting were reported in 1978. Work by Teck on the combined properties in 1980-81 included an induced potential survey and 25 774 m of diamond drilling in 126 holes. Reserves were reported as one billion tons at 0.30% Cu, 0.034% molybdenite, 0.004 oz/t Au, 0.035 oz/t Ag (Teck Corporation, 1981 Annual Report).

The Consolidated Silver Standard Mines Limited 65.5% interest in Liard Copper Mines Ltd was transferred in December 1985 to a new wholly owned subsidiary Western Copper Holdings Limited.

MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

- Schaft Creek Bedrock Geology, Sc. 1":2,000 feet, Fig. 3, Report of Minister of Mines, British Columbia, 1966.
 #Liard Copper, (Geol.), Sc. 1":800 feet, Fig. 2, Geology, Exploration and Mining, British Columbia Dept. of Mines, 1970.
 Map 9-1957, Stikine River Area, (Geol.), Sc. 1":4 miles.
 Map 11-1971, Telegraph Creek, (Geol.), Sc. 1:250,000 - accomp. Paper 71-44, Geol. Surv. of Canada, 1972.
 *Map 104 G/7, Mess Lake, (Topo.), Sc. 1:50,000.
 Map 104 G/6, Scud Glacier, (Topo.), Sc. 1:50,000.

REMARKS/REMARQUES

Comp./Rev. By Comp./rév. par	DMacR						
Date Date	09-86						

REFERENCES/BIBLIOGRAPHIE

- Reports of Minister of Mines, British Columbia: 1959, p. 7; 1964, p. 13; 1965, p. 40; 1966, pp. 26-29; 1967, pp. 29-30; 1968, pp. 39-41.
- Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1969, p. 46; 1970, pp. 49-57+; 1971, p. 39; 1972, p. 527; 1973, p. 505; 1974, p. 337; 1975, p. E184; 1976, p. E184; 1977, p. E224.
- ++Linder, Harold; Geology of the Schaft Creek Porphyry Copper-Molybdenum Deposit, Northwestern B.C.; Canadian Institute of Mining & Metallurgy Bulletin, Vol. 68, No. 758, pp. 49-63, June 1975.
- +++Fox, P.E., Grove, E.W., Seraphim, R.H., Brown, A. Sutherland; Schaft Creek; Porphyry Deposits of the Canadian Cordillera; Special Vol. 15, pp. 219-226, The Canadian Institute of Mining and Metallurgy, 1976.
- Mineral Policy Sector; Corporation Files: "Consolidated Silver Standard Mines Limited"; "Liard Copper Mines Ltd."; "Hecla Mining Company"; "Teck Corporation"; "Paramount Mining Limited".
- Exploration in British Columbia; BCDM: 1978, p. 258; 1980, p. 472; 1981, p. xi.