

PRODUCT  
PRODUIT GOLD

PROVINCE OR  
TERRITORY PROVINCE OU  
TERRITOIRE British Columbia

N.T.S. AREA 82 K/4  
RÉGION DU S.N.R.C.

REF. Au 1  
RÉF.

NAME OF PROPERTY  
NOM DE LA PROPRIÉTÉ

MILLIE MACK

OBJECT LOCATED Millie Mack claim (Lot 1831)  
OBJET LOCALISÉ

UNCERTAINTY 300 m  
FACTEUR D'INCERTITUDE Lat. 50°02'30" Long. 117°43'40"

Mining Division  
Division minière Slocan

District  
District

County  
Comté Township or Parish  
Canton ou paroisse

Lot  
Lot Concession or Range  
Concession ou rang

Sec  
Sect. Tp. R.  
Ct. R.

OWNER OR OPERATOR/PROPRIÉTAIRE OU EXPLOITANT

DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT

Argillites overlie volcanics and contain a zone of shearing and mineralization at the contact. Two interpretations: 1. A low angle thrust fault has placed lower Slocan Group sediments over younger Slocan and Rossland Group volcanics (GSC Bull. 161, 1962). 2. Overlying argillites are younger than the underlying volcanics with no evidence of low angle thrust faulting (GSC Open File Map 432, 1977).

The zone of mineralization in the contact zone consists of highly sheared argillite containing irregularly distributed blocks of quartz veining. The quartz is more or less mineralized with sulphides of arsenic, lead, zinc and minor copper, which contain important values in gold and silver.

Associated minerals or products  
Minéraux ou produits associés

Silver, lead, zinc

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

The property is located at 6,000 feet elevation on Blue Grouse Mountain, between Slocan Lake and Lower Arrow Lake, some 22 km south-southeast of Nakusp. The mineralized structure outcrops around an oval perimeter near the top of the mountain. The main areas of initial exploration were on the Millie Mack, on the east side of the mountain, on the Black Bear on the opposite side of the summit, and on the Great Western claim (Lot 2200) at the south end of the mountain.

The showings were reportedly first worked in 1897. The Kamloops Mining and Development Company, Limited acquired Crown-grants for the Gold Ring, Wolf and Millie Mack (Lots 1828, 1830, 1831 respectively in 1899 and for the Rainbow Quartz, Impregnable and Triumph (Lots 4193-4195) in 1900. Small shipments of sorted ore began in 1899.

The property was acquired in about 1903 by H.E. Forster, a local MP, who carried out exploration annually from 1904 until 1924. Work to 1917 on the Millie Mack included numerous open cuts, extensive ground sluicing and about 1,285 feet of drift in 3 adits. Work on the Black Bear in 1923 included open cuts and several short adits. The Black Bear and H.E.F. fraction claims (Lots 14850 and 14849 respectively) were Crown-granted to the Forster Estate in 1942.

In 1960, W. Isaacs, of Burton, optioned the property from Mrs. M. Forster; stripping and a small ore shipment was reported.

Richwood Silver Mines Ltd. (Richwood Industries Ltd. from 1969) optioned the property in 1967 and staked some 96 adjacent claims. Work in 1967-69 included geological mapping, hand and bulldozer trenching, stripping of some 100,000 cubic yards of material, rock trenching and one adit extended 100 feet; Clarke (1980) reports approximately 800 m of underground workings. Additional work in 1972-73 included magnetometer and geochemical surveys and trenching.

In April 1979 W. Smith and S. Craik, of Kelowna, optioned the property from Medora Forster, of Penticton, and C. Marshall, of Vernon. They staked adjacent claim groups (105 units) and carried out surface mining; a 80.6 ton shipment of siliceous fluxing ore to Trail graded 0.22 oz/t Au, 8.4 oz/t Ag, 1.24% Pb, 0.86% Zn, 61.1% silica. The property was con't card 2

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HISTORY OF PRODUCTION/HISTORIQUE DE LA PRODUCTION

From 1899 to 1969, 340 tons of ore were shipped. From this ore, 299 ozs gold, 20,921 ozs silver, 43,450 lbs lead and 1,013 lbs zinc were recovered (no zinc recovered prior to 1960; early shipments were of sorted ore).

1979 - 73 tonnes ore - 529 g Au, 21,088 g Ag, 32 kg Cu, 905 kg Pb, 626 kg Zn.

REFERENCES/BIBLIOGRAPHIE

Reports of Minister of Mines, British Columbia: 1899, p. 845; 1900, p. 985; 1902, p. 164; 1903, p. 150; 1904, p. 146; 1905, p. 170; 1910, p. 114; 1911, p. 170; 1912, p. 160; 1915, p. 175; 1916, p. 207; 1917, p. 174+; 1918, p. 158; 1919, p. 138; 1920, p. 134; 1921, p. 163; 1922, p. 218; 1923, p. 234++; 1924, p. 204; 1960, p. 77; 1967, p. 249; 1968, p. 248; 1969, p. 323; 1971, p. 423; 1972, p. 72; 1973, p. 90.

Exploration in British Columbia; EMPR: 1979, p. 85; 1980, p. 111.

Hyndman, D.W.; Petrology and Structure of Nakusp Map-Area, British Columbia; Bulletin 161, pp. 85, 86, Geol. Surv. of Canada, (1968).

Clarke, W.E.; Report on the Millie Mack Property, 21/01/80, in Semper Resources Inc. Statement of Material Facts, 09/09/80.

Mineral Policy Sector; Corporation Files: "Greenstone Resources Ltd."

MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

Open File 432, (Geol.), Lardeau West Half, Geol. Surv. of Canada, 1977.

Map 1234 A, Nakusp, (Geol.), Sc. 1: 63,360, accomp. Bull. 161, Geol. Surv. of Canada, 1968.

#Map 82 K/4, Nakusp, (Topo.), Sc. 1:50 000.

REMARKS/REMARQUES

Comp./Rev. By Comp./rév. par	DMacR						
Date Date	01-89						

PRODUCT GOLD  
PRODUIT

PROVINCE OR PROVINCE OU British Columbia  
TERRITORY TERRITOIRE

CARD-2 82 K/4  
N.T.S. AREA  
RÉGION DU S.N.R.C.

REF. Au 1  
RÉF.

NAME OF PROPERTY  
NOM DE LA PROPRIÉTÉ

MILLIE MACK

**HISTORY OF EXPLORATION AND DEVELOPMENT (con't)**  
**HISTORIQUE DE L'EXPLORATION ET DE LA MISE EN VALEUR**

sub-optioned in October 1979 to Semper Resources Inc. Work in 1980 included 925 m of rotary drilling in 36 holes on Millie Mack.

Greenstone Resources Ltd. in August 1988 optioned a 100% interest in the property in order to carry out a feasibility study based on large scale open pit mining. The potential tonnage in the main zone is estimated at 20,000,000 tons at a grade in excess of .05 oz/t Au, 2.5 oz/t Ag. (Greenstone Resources Ltd., 1988 Annual Report).