

PRODUCT  
PRODUIT GOLD

PROVINCE OR  
TERRITORY PROVINCE OU  
TERRITOIRE

British Columbia

N.T.S. AREA 92 J/15  
RÉGION DU S.N.R.C.

REF. Au 21  
RÉF.

NAME OF PROPERTY  
NOM DE LA PROPRIÉTÉ

RELIANCE, SENATOR (NEMO)

OBJECT LOCATED - Imperial (Senator) zone, Nemo 2 claim (Lot 7562)  
OBJET LOCALISÉ

UNCERTAINTY 300 m  
FACTEUR D'INCERTITUDE

Lat. 50°52'35" Long. 122°47'10"  
Lat. Long.

Mining Division Lillooet  
Division minière

District  
District

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

Map 13-1973 indicates the area is underlain by Mid Triassic and (?) older Bridge River Group chert, argillite, phyllite and greenstone. At the Reliance workings, on the eastern part of the property, massive greenstone with some chert is host rock to three northeasterly striking shear zones, each carrying one or more stibnite veins in a quartz and calcite gangue. Stibnite occurs in streaks, disseminations, and irregular lens-shaped masses, generally associated with pyrite and occasional arsenopyrite. Channel samples generally assayed less than 0.1 oz/t Au over widths up to 5 feet. The largest stibnite exposure is 81 feet long and varies in width from a seam to 6", a selected sample assaying: Gold, trace; silver, trace; antimony 58.8 percent (Report of Minister of Mines, 1936, p. F 8).

At the Senator workings, on the western part of the property, a northerly striking zone of alterations at a sedimentary-volcanic contact on surface consists of quartz veining and ankerite alteration and large quartz-carbonate exposures with variable pyrite and stibnite mineralization.

Associated minerals or products  
Minéraux ou produits associés

Antimony, silver

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

The property is located at approximately 3 000 feet elevation on the south side of Bridge River, just east of McDonald Creek and some 11.5 km north of Bralorne. The Reliance antimony showings, (lat. 50°52'50" long. 122°46'20") were first staked as the Reliance group of 4 claims in 1910 by F.A. Brewer and restaked by him in 1915. The workings from that period include an open cut 60 feet long and 10 feet deep from which four tons of antimony ore was reported shipped in 1917.

Reliance Gold Mines, a Washington company, in 1933 acquired 21 claims including the ground formerly held by Brewer. Intermittent development work to 1937 included open cuts and over 500 feet of crosscuts and drifts in 4 or 5 adits over a vertical range of 1 500 feet. The lower (River) crosscut adit at 2 150 feet elevation, designed to explore the depth extension of the shear zones, was driven to 250 feet by June 1937.

Hillside Mining Company, Limited was incorporated in September 1945 to acquire 23 claims and fractions that covered the Reliance showings on the eastern side of the property (Nemo 5, 7, 8 and Omen 1 claims) and the Senator showings (Nemo 1, 2 claims) about 1 km to the west on the western side of the property. Crown-grants were issued to the company in the period 1948-1951 for the Omen FR. (Lot 7502), Nemo FR. (Lot 7503), Nova FR. (Lot 7504), Nemo 1-8 (Lots 7651-7658), Omen 1-8 (Lots 7659-7666), Eros 1, 2, 4, 5 and Eros FR. (Lots 7497-7501). Work reported to 1949 consisted of prospecting, 50 feet of crosscut, and 15 feet of drift.

T.V.I. Mining Ltd. acquired Mineral Lease M-65 covering the reverted Crown-grants from G.B. Allen in about 1971. Work in 1971 and 1973 included geological mapping, an electromagnetic survey over 4 line-miles, and a geochemical survey which indicated an antimony-arsenic anomaly 300 feet wide and 1 500 feet long.

Lode Resources Corporation in 1983 optioned the Omen 4-6 and Eros 1, 4, 5 claims from Tarbo Resources Ltd. The Nemo claims were acquired in about 1984 by Menika Mining Ltd. and an option on the Omen and Eros groups was subsequently

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p.t.o.

HISTORY OF PRODUCTION/HISTORIQUE DE LA PRODUCTION

Four tons of antimony ore were reported shipped in 1917.

HISTORY OF EXPLORATION AND DEVELOPMENT (con't)

acquired for a total of 19 reverted Crown-grants. Work in 1984 included an electromagnetic survey over 1.3 km and a geo-chemical soil survey (81 samples).

The only reported early activity on the Senator showings was by Senator Gold Mines, Limited which was incorporated in March 1935; surface work was reported. Cairnes (1943) shows 2 adits on Map 43-15 A and Menika Mining in 1987 reported an old adit and trenches at their "Diplomat" zone, some 250 feet northerly from their "Senator" zone. Menika in 1985 carried out a geochemical rock chip survey (70 samples); road bulldozing exposed the "Senator" and "Diplomat" and 4 other "zones". Diamond drilling began in late 1986 on the "Imperial zone" some 250 feet southerly from the Senator zone. Drilling in 36 holes to October 1987 indicated 250 000 tons at 0.2 oz/t Au in the "Imperial zone" portion of the structure (George Cross News Letter, 1987, No. 227).

REFERENCES/BIBLIOGRAPHIE

Reports of Minister of Mines, British Columbia: 1933, p. 270; 1935, p. F 56; 1936, pp. F 8-10†; 1949, p. 106; 1971, p. 312; 1973, p. 251.

Exploration in British Columbia; BCDM: 1984, p. 234; 1985, p. 224.

†† Cairnes, C.E.; Geology and Mineral Deposits of the Tyaughton Lake Map-Area; Paper 43-15, pp. 32-33, Geol. Surv. of Canada, 1943.

Drysdale, C.W.; Bridge River Map-Area; Summary Report, 1915, p. 84, Geol. Surv. of Canada.

McCann, W.S.; Geology and Mineral Deposits of the Bridge River Map-Area; Memoir 130, pp. 73-74, Geol. Surv. of Canada, 1922.

Mineral Policy Sector; Corporation Files: "Reliance Gold Mines"; "Lode Resources Corporation".

George Cross News Letters: 1985, No. 30, 97, 236; 1986, No. 230; 1987, No. 4, 72, 88, 98, 109, 137, 147, 165, 189, 199, 227.

MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

#Map 43-15 A, Tyaughton Lake, (Geol.), Sc. 1": ½ mile, accomp. Paper 43-15.

Map 13-1973, Pemberton (East Half), (Geol.), Sc. 1: 250 000, accomp. Paper 73-17, Geol. Surv. of Canada.

\*Map 82 J/15, Bralorne, (Topo.), Sc. 1: 50 000.

REMARKS/REMARQUES

Comp./Rev. By Comp./rév. par	DMacR						
Date Date	12-87						