

PRODUCT SILVER  
PRODUIT

PROVINCE OR PROVINCE OU  
TERRITORY TERRITOIRE

British Columbia

N.T.S. AREA 104 0/16  
RÉGION DU S.N.R.C.

REF. AG 1  
RÉF.

NAME OF PROPERTY GEM (AMY) (RANCHERIA) (LEO) (FLO)  
NOM DE LA PROPRIÉTÉ

OBJECT LOCATED - Centre of property.  
OBJET LOCALISÉ

UNCERTAINTY 500 m  
FACTEUR D'INCERTITUDE

Lat. 59°55'30"

Long. 130°29'30"

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

The host rocks, possibly of Cambrian age, comprise phyllite, argillite, quartzite, and limestone locally altered to hornfels, micaceous quartzite, schist, and crystalline limestone. These rocks strike northwest, dip 50 to 60°SW, and are cut by granite of the Cassiar Intrusions. The valley occupied by the claims lies in an embayment in the regionally north-trending contact so that locally the contact trends in a north-westerly direction across the claims. The mineralization occurs in a shear zone striking N55 to 65°W and dipping about 60° south. The vein, at least locally, is along a limestone argillite contact and is roughly parallel and about 400 feet northeast of the surface trace of the granite contact. Much of the mineralization occurs as a replacement of limestone by galena, sphalerite, pyrrhotite, ankerite, and silver-bearing tetrahedrite. From a 66 foot length in the east drift, on a vein averaging 5.9 feet wide, face samples assayed: silver, 27.4 ounces a ton; lead, 3.5%; zinc, 7.4%. Vein mineralization has been exposed by trenching on a geochemical anomaly about 2,000 feet southeast of the workings, and also at 700 and 1,800 feet northwest of the workings.

Associated minerals or products - Lead, zinc.  
Minéraux ou produits associés

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

The showings are located at the 4,750' elevation on the south side of the Tootsee River about 2½ miles northwest of the east end of Tootsee Lake, some 60 miles west-southwest of Watson Lake.

The showings were discovered in 1948 by J. St. Godard, of Flin Flon, while prospecting for the Hudson Bay Exploration & Development Company Limited; the Gem group of 38 claims was staked in September of that year. During 1949 the company made a geological examination of the property and explored the vein by trenching and 8 diamond drill holes totalling 2,935 feet. The claims were subsequently abandoned by the company but retained by Mr. St. Godard until 1962. The ground was restaked in October 1962 as the Amy group of 8 claims by W.S. Kennedy on behalf of First Itsi Mountain Grubstake, of Toronto.

Rancheria Mining Company Limited was incorporated as a private company in June 1963 to acquire the property; an additional 24 claims were staked at that time. Exploration work during 1964-65 included magnetometer and geochemical surveys over an area 14,000 foot long in a northwest direction by 3,600 feet wide, bulldozer trenching and 7,500 feet of diamond drilling in 24 holes; a crosscut adit at 4,450' elevation was driven 185 feet to the vein and drifting was done to the southeast and northwest. Underground sampling was carried out in 1967. In the fall of 1968 a percussion drilling program was attempted (11 holes) but no worthwhile data was obtained. The Amy claims were subsequently allowed to lapse and the ground was restaked as the Leo 1-2 and Flo 1-4 claims by J. Foster Irwin; an option on an additional 40 claims which surround the central six was also acquired by Mr. Irwin.

Fosco Mining Ltd. optioned the property from Mr. Irwin in December 1971. A feasibility study was carried out in 1972. Work during 1973 included surface and underground geological mapping, a geochemical survey (89 samples), and 1,630 feet of crosscutting and drifting in a new adit at the 4,200 foot elevation. Measured and indicated reserves were calculated by the firm of Chapman, Wood and Griswold Ltd. in 1973 at 79,849 tons averaging 10.70 oz/ton silver, 2.84% lead, and 6.03% zinc (Marbaco Resources Ltd., Statement of Material Facts 88-81, Report by Veerman, June 1980).

see Card 2 ....  
Mineral Policy Sector, Department of Energy, Mines and Resources, Ottawa  
Secteur de la politique minière, ministère de l'Énergie, des Mines et des Ressources, Ottawa

510258

Reports of Minister of Mines, British Columbia:  
 1949, p. 70; 1964, p. 9; 1965, pp. 10-12<sup>+</sup>.

Geology, Exploration and Mining; British Columbia Dept. of Mines: 1972, p. 560; 1973, p. 516; 1974, p. 352; 1978, p. E 276; 1979, p. 314; 1980, p. 508.

Gabrielse, H.; Geology of Jennings River Map-Area, British Columbia; Paper 68-55, p. 34, Geol. Surv. of Canada, 1969.

Mulligan, R.; Metallogeny of the Region Adjacent to the Northern Part of the Cassiar Batholith, Yukon Territory and British Columbia; Paper 68-70, Table 1, and p. 8; Geol. Surv. of Canada, 1969.

Mineral Policy Sector; Corporation Files: "Rancheria Mining Company Limited"; "Marbaco Resources Limited"; "Anglo-Bomarc Mines Ltd."; Barytex Resources Corp".

Chapman, Wood & Griswold Ltd.; Report of Examination, Flo and Leo Claim Group, Dec. 1971 - in Fosco Mining Ltd. Statement of Material Facts, Jan. 1973.

Veerman, H.; Report on the Property of Marbaco Resources Limited, June 1980 - in Marbaco Resources Statement of Material Facts 88-81.

George Cross News Letters: 1985, No. 148, 191, 232.

Exploration in British Columbia; BCDM: 1984, p. 408.

MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES  
 Map 18-1968, Jennings River, (Geol.), Sc. 1:250,000 - accomp. Paper 68-55.

#Claim map, Report by Veerman, 1980.

\*Map 104 0, Jennings River, (Topo.), Sc. 1:250,000.

REMARKS/REMARQUES

Comp./Rev. By Comp./rév. par	DMacR	DM <sub>a</sub> cR					
Date Date	07-81	09-86					

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NAME OF PROPERTY NOM DE LA PROPRIÉTÉ	GEM (AMY) (RANCHERIA) (LEO) (FLO)
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HISTORY OF EXPLORATION AND DEVELOPMENT (continued)  
HISTORIQUE DE L'EXPLORATION ET DE LA MISE EN VALEUR

Part of the ground formerly held as the Amy group was restaked in 1972 by Anglo-Bomarc Mines Ltd. as the PCP group. Trenching was reported in 1974 on PCP 2, 6, 18, and 37 claims. Ground adjacent to the Leo and Flo claims was acquired by D.G. Schellenberg in about 1978. Du Pont of Canada Exploration Limited held an option on this ground in 1979. Work included a geochemical soil and silt survey (1,346 samples).

The company name (Fosco Mining) was changed in March 1979 to Marbaco Resources Ltd. In May 1980 the company optioned from Schellenberg the Cub, Col, Bear, Blue and others totalling 14 claims (89 units) adjoining the Leo and Flo claims on the east, northwest and west. A geochemical soil survey (265 samples) was carried out in 1980.

Sovereign Metals Corp in May 1983 optioned the Cub group of 9 claims (33 units) surrounding the Leo-Clo claims on three sides. Work in 1984 included 439 m of diamond drilling in 8 holes. The company in August 1985 optioned a 90% interest in the Leo and Flo claims (9 units) from H. Veerman and W. Botel. In August 1985 Sovereign sub-optioned a 50% interest in all claims to Teryl Resources Corp. Work in 1985 included trenching and diamond drilling. Reg Resources Corp in late 1985 optioned a 50% interest in the option held by Teryl.