

NAME OF PROPERTY NOM DE LA PROPRIÉTÉ	LAWYERS
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OBJECT LOCATED - AGB zone.
OBJET LOCALISÉ

UNCERTAINTY 300 m
FACTEUR D'INCERTITUDE

Lat.	57°20'20"	Long.	127°10'40"
Lat.		Long.	

Mining Division **Omineca** District
Division minière District

County Township or Parish
Comté Canton ou paroisse

Lot Concession or Range
Lot Concession ou rang

Sec. Tp. R.
Sect. Ct. R.

OWNER OR OPERATOR/PROPRIÉTAIRE OU EXPLOITANT

DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT

The property is underlain by Lower Jurassic Toodoggone volcanic rocks. Six gold-silver-bearing showings have been discovered, all of which are associated with steeply dipping northwest-trending faults which transect flow boundaries. The most important of these is the Amethyst Gold Breccia (AGB) zone, which is a northwest-trending quartz-filled breccia zone in trachyte porphyry. The zone is about 2,000' in length, 40' wide, and has been tested to a depth of several hundred feet. It consists of incipiently brecciated fragments cemented by quartz, amethyst quartz and calcite. The core of the breccia zone is almost entirely replaced by quartz and amethyst. Mineralization consists of native silver, electrum and lesser argentite occurring as microscopic grains (0.1 to 0.05 mm). The strongest mineralization is associated with the most intensely silicified portion of the breccia zone.

The Cliff Creek zone is about 2 km west of the AGB zone. The Duke's Ridge zone, discovered in 1982, is a cross structure between the other two zones; it has an indicated length of

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Associated minerals or products - Silver.
Minéraux ou produits associés

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

The property is located at about 1 800 metre elevation in the Toodoggone River area 15 km southwest of Toodoggone Lake and some 280 km north of Smithers. Other showings on the property are located about 2 km southwest of the AGB zone as follows:

Cliff Creek Zone Lat.57°19'55" Long.127°12'30"
Dukes Ridge Zone Lat.57°19'40" Long.127°11'40"

The Lawyers 1-54 claims were acquired by Kennco Explorations, (Western) Limited. During 1970 a geochemical soil survey comprising 900 samples was carried out over 10 claims. Regional geological mapping and soil, silt, and rock geochemical surveys were carried out in 1971 over the property and nearby Kodah and Saunders (94 E/6, PB 1) claim groups. In 1972 further geochemical survey work was carried out over the Lawyers group and a magnetometer survey on the Kodah group. During 1972 a geochemical survey of approximately 130 soil and 50 rock samples, and trenching was carried out on the Lawyers group. Work in 1974 included a geochemical survey (220 samples), and 2,004 feet of diamond drilling in 4 holes on Lawyers 181 and 183.

In 1975 the ground was restaked as the New Lawyers 1-4 claims (48 units). Work during the year by Kennco included a geochemical survey (65 samples) over 0.5 line-kilometres on a 15 metre grid spacing, 713 samples over 6 line-kilometres at variable spacing, and 521 metres of diamond drilling in 6 holes on New Lawyers 1 and 4. One hole drilled in the Cliff Creek zone gave insignificant values.

Late in 1978 the property was optioned to Semco Mining Corporation, who in May 1979 assigned the option to S.E.R.E.M. Ltd.; the company name was changed to Serem Ltd. in January 1980. Adjacent claims were staked in the Law 1, Law 3, and Breeze groups (38 units). Exploration work during 1979 included trenching and diamond drilling; one hole was drilled on the Cliff Creek zone with disappointing results. In 1980 Serem assigned 50% of its interest equally to Sudbury Contact Mines, Limited and Agnico-Eagle Mines Limited under a joint venture agreement (Serem joint venture). Work during the year included soil and silt geochemical surveys and trenching. Diamond drilling on the Amethyst Gold Breccia

see Card 2

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HISTORY OF PRODUCTION/HISTORIQUE DE LA PRODUCTION

Production started in December 1988 and first dore bar was poured in January 1989.

REFERENCES/BIBLIOGRAPHIE

Geology, Exploration and Mining; British Columbia Dept. of Mines: 1970, p. 187; 1971, p. 70; 1972, p. 482; 1973, p. 460++; 1974, p. 312; 1975, pp. E 165, G 79.

+Barr, D.A.; Chappelle Gold-Silver, British Columbia; Canadian Institute of Mining and Metallurgy, Bulletin, Vol. 71, No. 790, Feb. 1978, pp. 71, 78.

Mineral Policy Sector; Corporation Files: "Sudbury Contact Mines, Limited"; "Bureau De Recherches Géologiques et Minières"; "Cheni Gold Mines Inc."

Geological Fieldwork, British Columbia Dept. of Mines: 1980, pp. 124-130; 1981, pp. 122-130; 1982, pp. 125, 131, 143; 1983, p. 134; 1984, p. 291; 1986, pp. 111, 112.

Exploration in British Columbia; British Columbia Dept. of Mines: 1980, p. 429; 1982, p. 333; 1983, pp. 481, 482; 1985, pp. A12, A51; 1986, pp. A20, A49; 1987, p. A14.

George Cross News Letter: 1985, No. 117; 1987, No. 114, 166, 221.

MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

Geology between Toodoggone and Sturdee Rivers, Sc. 0.8 cm: 1 km, Fig. 45, Geological Fieldwork, 1982, p. 142, B.C. Dept. of Mines.

Map 14-1973, Sustut Basin, (Geol.), Sc. 1:250,000 - accomp. Paper 73-31, Geol. Surv. of Canada.

Regional Geology, Chappelle Area, Sc. 1":4.5 miles, Fig. 3 - accomp. Report by Barr, p. 67.

#Plan of Lawyers project, Sudbury Contact Mines, 1983 Annual Report.

*Map 94 E/6, Moosehorn Creek, (Topo.), Sc. 1:50,000.

REMARKS/REMARQUES

Comp./Rev. By Comp./rév. par	DMacR						
Date Date	07-85						

PRODUCT GOLD
PRODUIT

PROVINCE OR PROVINCE OU
TERRITORY TERRITOIRE

British Columbia

N.T.S. AREA 94 E/6
RÉGION DU S.N.R.C.

REF. AU 3
RÉF.

NAME OF PROPERTY
NOM DE LA PROPRIÉTÉ

LAWYERS

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

continued

The company name (Serem Inc.) was changed in March to Cheni Gold Mines Inc. With financial assistance from the Province the Omineca Resource Road was extended 64 miles to the Sturdee Valley airstrip, 14 miles by road from the mine. Work on the property in 1987 included 10 432 m of diamond drilling in 49 holes on the Cliff zone and underground development for mining of the AGB zone. Reserves in all categories were estimated as 1 938 000 tons at 0.196 oz/t Au, 7.09 oz/t Ag (George Cross News Letter, 18/11/87). Construction of a 550 ton per day mill began early in 1988.

zone during 1978-81 totalled 25,745' in 44 holes. In 1981 a crosscut adit at the 1 750 m elevation was driven to the breccia zone, and including a footwall drift and 4 crosscuts totalled 2,508 feet. Expenditures on the property to date increased the Serem joint venture interest to 80%, and reduced the Kennco interest to 20%. At the end of 1981 Sudbury and Agnico-Eagle declined to participate in further work and their interest became subject to dilution to a minimum combined 20% of net profits. The Kennco interest was diluted to 5%. Work in 1982-83 included trenching on the Cliff Creek zone and approximately 3 597 metres of underground and surface diamond drilling on the AGB zone. Diamond drilling in 1983 totalled 3 054 metres in 17 holes (eight on Cliff Creek, seven on Dukes Ridge, and two on AGB). Mineable reserves were calculated at 561,773 tons grading 0.211 oz/t Au and 7.11 oz/t Ag on the AGB zone, and probable drill-indicated reserves of 143,500 tons grading 0.217 oz/t Au and 8.6 oz/t Ag on the other two zones (Northern Miner, May 3, 1984).

DESCRIPTION OF DEPOSIT (con't)

1.2 km and width of 5 m. All three zones contain shoots of high-grade gold-silver in a complex system of chalcedony breccia and quartz vein stockworks.

Serem Ltd, wholly owned by the French government, changed its name in September 1983 to Serem Inc. Work in 1984, including trenching and diamond drilling, resulted in expanding the reserve estimate to approximately 1,400,000 tons at about 0.18 oz/t Au, 6.7 oz/t Ag (Sudbury Contact M L, 1984 Annual Report). The 1984 drilling (23 000 feet in 45 holes) included 19 holes in the Cliff Creek and 13 in the Duke Ridge zones and surface and underground drilling in the AGB zone. Work in 1985-86 was related mainly to feasibility and access studies. Work to the end of 1986 included 73 160 feet of surface and underground diamond drilling, 22 965 feet of surface trenching, 4 274 feet of crosscuts and drifts and 587 feet of raising. Wright Engineers Limited in a March 1987 report estimated mineable reserves as follows:

ZONE	Classification	Estimated Tons	Grade	
			Silver oz/t	Gold oz/t
AGB.....	proven	498 900	7.69	0.243
Cliff Creek...	probable	463 300	7.61	0.170
Duke's Ridge..	probable	75 400	6.59	0.230
TOTAL/Weighted average.....		1 037 600	7.57	0.209

con't on left side of card...