

PRODUCT

SILVER

PROVINCE OR
TERRITORY

British Columbia

N.T.S. AREA 104 P/5

- Card 2 -
REF. AG 2

NAME OF PROPERTY MAGNO, CROWN POINT, SILVER QUEEN, GRAHAM

DESCRIPTION OF DEPOSIT (continued)

1,500 feet, of which 600 feet has been explored by underground development to the west of the fault. The East vein, along the boundary between Magno 1 and 2, has been traced for about 1,300 feet. Grades tend to be higher along the footwall side of the veins and the grade distribution within the fine-grained magnetite is quite irregular. The most easterly drill holes, Nos. 19 and 42, show a change of mineralization to pyrite and pyrrhotite with silver, lead and zinc near the contact with the overlying argillites. A bedded pyrrhotite-lead-zinc deposit within Atan limestone lies about 1 mile north of the Magno claims on the Zone 1-4 claims.

HISTORY OF EXPLORATION AND DEVELOPMENT (continued)

in the West vein west of the Magno fault were estimated at 101,500 tons averaging 9.8 ounces silver per ton, 12.0% lead, and 4.3% zinc. Drill indicated reserves in the West vein east of the Magno fault and in the East vein were estimated at 264,000 tons averaging 4.2 ounces silver per ton, 4.2% lead, and 4.1% zinc (Ref. Sevensma, 1974).

The company name was changed in 1972 to Consolidated Coast Silver Mines Ltd. In May 1975 an option on a 80% interest in the Magno 1-4 and Jean 1 and 2 claims was given to Balfour Mining Ltd. Balfour in turn in June 1975 optioned a 15% interest in the above agreement to Gold Hawk Mines Ltd. Work by Balfour during 1975-76 included surface and underground geological mapping, an electromagnetic survey, underground diamond drilling in 3 holes totalling 141.3 m on Magno 4, surface diamond drilling in 18 holes totalling 1,390 m, and metallurgical testing; this work was sufficient to earn for Balfour an 80% interest as per the 1975 option agreement.

The company name (Consolidated Coast) was changed in January 1976 to Newcoast Silver Mines Ltd. The company name (Balfour) was changed in 1978 to International Balfour Resources Ltd., and in June 1980 to Quartet Energy Resources Ltd. Reserves were reported as about 375,000 tons proven at 7 ozs/t Ag, 10% Pb-Zn (Northern Miner, Nov. 1, 1979).

PRODUCT	SILVER	PROVINCE OR TERRITORY	British Columbia	N.T.S. AREA	104 P/5	REF. AG 2
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NAME OF PROPERTY	MAGNO, CROWN POINT, SILVER QUEEN, GRAHAM					
OBJECT LOCATED -	Magno, West Vein.					
UNCERTAINTY IN METRES	100.	Lat. 59°15'30"	Long. 129°50'			
Mining Division	Laird	District	Cassiar			
County	Township or Parish					
Lot	Concession or Range					
Sec	Tp.		R.			

OWNER OR OPERATOR AND ADDRESS

DESCRIPTION OF DEPOSIT

The claim area is underlain by Lower Cambrian Atan Group marbalized limestone and dolomite, which overlie conformably Atan quartzites. The east boundary of the claims lies near the contact with overlying Upper Cambrian Kechika Group argillites. About 2,000 feet west of the west boundary of the claims the Atan group is intruded by granodiorite of the Cassiar batholith. The Atan limestones are in places shaly or thin bedded but a massive blue-grey variety predominates in the Marble creek area, where substantial volumes have been irregularly dolomitized. The bedding in the Marble creek area strikes about north-south, and dips vary from about 20° to 70° to the east, but intermediate values of about 50° predominate. Silver-lead-zinc-magnetite veins strike east-west and dip about 75° north. They vary in width from about 6 inches to 15 feet and lie parallel, and often along, andesite dykes of about the same attitudes and widths.

On Magno 4 claim the West vein, which is displaced by the north trending Magno fault, has been traced for a length of see Card 2

HISTORY OF EXPLORATION AND DEVELOPMENT

This property is located between elevations of 4,000 and 5,500 feet on Marble Creek, one to two miles south of Cassiar. The showings were first staked in 1941. Cassiar Yukon Gold Mines Ltd. acquired 3 claims on the lower end of the creek in 1950. Bulldozer stripping was reported in 1954 and some ore was shipped. The Silver Queen group of 16 claims was held under option by Telmac Mines Limited in 1955. Bulldozer stripping was reported during the year. The Graham group of 6 claims, adjoining at higher elevations, was held under option in 1955 by Silver Standard Mines Limited. Work during the year included 1,728 feet of diamond drilling in 9 holes.

The Bas, Silver Queen, Crown Point, and other groups, totalling 82 claims, were held by Crown Point Exploration Ltd. in 1967. Work during the year included geological mapping, magnetometer survey, and 2,149 feet of diamond drilling in 11 holes.

Coast Silver Mines Ltd. optioned the Magno 1-4 claims from W.J. Storie in July 1968. The Crest 1-2 claims were optioned from A. Babi in July 1969; these claims were apparently a restaking of the Graham group. The Jean 1-2 claims were staked by the company. In September 1968 the company optioned 170 claims, partially surrounding the Magno Group and extending southeast from Marble Creek towards Vines Lake. These claims were optioned from Crown Point Exploration Ltd. Work during 1969 included aeromagnetic, ground magnetometer, and geochemical soil surveys, trenching, and 15,040 feet of diamond drilling in 50 holes. Part of this drilling was apparently done on the Zone 1-4 claims at about the 4,000 foot elevation 1 mile north of the Magno group. Based on drill results this pyrrhotite-lead-zinc zone is estimated to contain about 100,000 tons averaging 3.3 ounces per ton silver, 3.3% lead, and 6.3% zinc, besides zones of massive barren pyrrhotite. (Ref. Sevensma, 1975).

Underground exploration of the West vein was begun in 1970 in crosscut adits at elevations of 4,800 and 5,200 feet. During 1970-1971 a total of 1,714 feet of cross-cutting and drifting, and 2,773 feet of underground diamond drilling in 25 holes was carried out. Work was suspended in 1971. Based on this work probable and possible reserves see Card 2

Associated minerals or products of value - Lead, zinc, gold.

Mineral Development Sector, Department of Energy, Mines and Resources, Ottawa.
510261 *

HISTORY OF PRODUCTION

A 22.5 ton shipment of ore to Kellogg, Idaho, in 1954 assayed: gold, 0.065 ounce per ton; silver, 53.6 ounces per ton; lead, 69.1%; zinc, 1.5%.

In 1971, 13 tons of ore were shipped. From this ore 51 ounces of silver, 996 pounds of lead, and 1,238 pounds of zinc were recovered.

REFERENCES

Sevensma, P.H.; Balfour Mining Ltd., Magno Group; June 1975 - in Balfour Mining Ltd., Statement of Material Facts, Sept. 1975. +

Gabrielse, H.; McDame Map-Area, Cassiar District, British Columbia; Memoir 319, pp. 120, 122, Geol. Surv. of Canada, 1963. ++

Reports of Minister of Mines, British Columbia: 1955, p. 10; 1967, p. 26.

Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1969, p. 41; 1970, p. 36; 1971, p. 57; 1975, p. E 194; 1976, p. E 198.

Minerals Sector; Corporation Files: "Cassiar Yukon Gold Mines Ltd."; "New Coast Silver Mines Ltd."; "Balfour Mining Ltd."

MAP REFERENCES

Map 1110 A, McDame, (Geol.), Sc. 1":4 miles - accomp. Memoir 319.

#Magno Group, (Geol. and claim map), Sc. 1":1,000 ft., Fig. 1 - accomp. Report by Sevensma.

*Map 104 P/5, Cassiar, (Topo.), Sc. 1:50,000.

REMARKS

Comp./Rev. By	DMacR	DMacR					
Date	07-76	12-80					