

PRODUCT GOLD  
PRODUIT

PROVINCE OR PROVINCE OU  
TERRITORY TERRITOIRE

British Columbia

N.T.S. AREA 104 P/5  
RÉGION DU S.N.R.C.

REF. AU 1  
RÉF.

NAME OF PROPERTY COPCO (CORNUCOPIA) (HANNA)  
NOM DE LA PROPRIÉTÉ

OBJECT LOCATED - center of claim group.  
OBJET LOCALISÉ

UNCERTAINTY 1,000 m Lat. 59°16'30" Long. 129°41'  
FACTEUR D'INCERTITUDE Lat. Long.

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. Tp.  
Sect. Ct.

R.  
R.

OWNER OR OPERATOR/PROPRIÉTAIRE OU EXPLOITANT

United Hearne Resources Ltd. (60%)

Taurus Resources Ltd. (40%)

DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT

The property is underlain by massive andesites of the Sylvester Group, lying near the axis of a large synclinal fold which trends northwest. A number of quartz veins occur in the andesite and strike about N80°E and dip 60 to 80 degrees south. The veins, consisting of milky quartz with dolomite and minor sulphides, vary in width from small veinlets to 20 feet. Post-ore faulting has truncated some veins, and brecciated the veins locally. Pyrite is the most common sulphide with tetrahedrite, sphalerite and arsenopyrite in minor amounts. Gold occurs in flakes within the quartz and in contact with the sulphides; sphalerite is usually an indicator of strong gold values. The vein contact is usually well defined with some sulphide bands along the contact and disseminated pyrite in the wallrock.

Associated minerals or products - Zinc, silver.  
Minéraux ou produits associés

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

The property is located on Quartz-rock Creek, 5 miles east of Cassiar, between elevations of 3,500 and 4,000 feet.

The 7 claim Cornucopia group was staked in 1935 by J.C. Simpson. Exploration work to 1944 included stripping, trenching, and sampling. Benroy Gold Mines, Limited optioned the property in 1945 and carried out several thousand feet of trenching and about 5,000 feet of diamond drilling. Exploration work ceased in 1946 to await better transportation facilities. However, the payment in lieu of assessment work was filed one day late in 1959 and the property was restaked by Mr. J. Couture and Mr. J. Copeland in 1959. They started a small high-grade mining operation in a short drift adit from which 25 tons of ore were shipped in 1960.

Cornucopia Explorations Ltd. was incorporated in May 1960 to acquire the property; the company name was changed in 1961 to Hanna Gold Mines Ltd. The property had at that time been expanded to 75 claims. Exploration work was carried out in 2 adits, one at 3,600 feet and the other at 4,100 feet elevation, and included 3,866 feet of drifting and crosscutting and 3,283 feet of underground diamond drilling. Exploration to the end of 1963 is reported to have indicated 500,000 tons of gold-bearing material of which 80,000 tons will average 0.66 ounce gold per ton (Canadian Mines Handbook 1968-69, p. 157).

Newconex Canadian Exploration Ltd. optioned the property in 1964 and completed an additional 600 feet of crosscutting and drifting and 700 feet of underground diamond drilling.

During the following years 68 of the claims were allowed to lapse and only 7 key claims, the Copco 1-6 and Roy Fraction were retained. The company name (Hanna Gold) was changed in 1972 to Dorchester Resources Ltd. Additional claims including the Roy and Atlas groups were purchased in 1972. Rehabilitation of the main adit, sampling and diamond drilling was done in 1973-75. The company name (Dorchester) was changed in 1976 to Taurus Resources Ltd.

Ashlu Gold Mines Limited optioned the property in 1978 and carried out electromagnetic and magnetometer surveys over 7.2 kilometres; the option was terminated in Feb./79.

United Hearne Resources Ltd. optioned a 60% interest in 27 claims and fractions from Taurus Resources in July 1979. Reserves in the old workings above the 3,600 level were esti-

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.  
504502 \*

ISTORY OF PRODUCTION/HISTORIQUE DE LA PRODUCTION

In 1960, 25 tons of ore were shipped from this property. From this ore 34 ounces of gold and 3 ounces of silver were recovered.

REFERENCES/BIBLIOGRAPHIE

Hanson, G., and McNaughton; Eagle-McDame Area, Cassiar District, British Columbia; Mem. 194, pp. 15, 16, Geol. Surv. of Canada, 1936.

Mineral Policy Sector; Corporation Files: "Dorchester Resources Ltd."; "Newconex Canadian Exploration Ltd."; "United Hearne Resources Ltd."

Reports of Minister of Mines, British Columbia: 1935, p. B-21; 1946, p. 61; 1947, p. 70; 1962, p. 6; 1963, p. 6; 1964, p. 10.

Gabrielse, H.; McDame Map-Area, Cassiar District, British Columbia; Mem. 319, p. 117, Geol. Surv. of Canada, 1963.

Canadian Mines Handbook 1968-1969, p. 157.

Investigation Report 62-65, Amalgamation, Concentration and Cyanidation Tests on a Gold Ore from Hanna Gold Mines Ltd. (N.P.L.), Cassiar, B.C.; Mines Branch, Ottawa, 1962.

Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1974, p. 354; 1975, p. E 194; 1978, p. E 278.

Trenaman, R.T.; An assessment of mine potential for the Taurus Property; 4/01/80 - in Vancouver Stock Exchange, Statement of Material Facts, 22/02/80, United Hearne Resources Ltd.

MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

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

Map 381 A, Eagle-McDame Area, (Geol.), Sc. 1":4 miles - accomp. Memoir 194.

#Sketch Map of claim group, Sc. 1": $\frac{3}{4}$  mile - accomp. Rept. by Trenaman.

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

REMARKS/REMARQUES

Comp./Rev. By Comp./rév. par	DMacR	DMacR	DMacR	DMacR			
Date Date	08-73	04-76	03-80	09-81			

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NAME OF PROPERTY NOM DE LA PROPRIÉTÉ	COPCO (CORNUCOPIA) (HANNA)
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HISTORY OF EXPLORATION AND DEVELOPMENT (continued)  
HISTORIQUE DE L'EXPLORATION ET DE LA MISE EN VALEUR

mated as probable 16,000 tons at 0.55 oz/t Au with minor silver. Total probable and possible reserves are estimated at 50,000 tons at 0.5 oz/t Au (R.T.Trenaman 4/01/80 - in VSE-SMF 22/02/80, United Hearne Resources Ltd.).

Exploration work on the 3600 level during 1979-80 included further drifting, raising, sampling and diamond drilling. This work confirmed a proven reserve of 66,000 tons at 0.47 oz/t Au (United Hearne, 1980 Annual Report). Construction of a 100 ton per day mill began in November 1980 and the mill was put into operation in September 1981. During 1981 a decline was driven some 400' to establish the 3500 level.