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|--------------------|--------|--------------------------|---------------------------|------------------|---|-------------------|
| PRODUCT PRODUIT | COPPER | PROVINCE OR TERRITORY | PROVINCE OU TERRITOIRE | British Columbia | N.T.S. AREA 103 I/9 RÉGION DU S.N.R.C. | REF. CU 1 RÉF. |
|--------------------|--------|--------------------------|---------------------------|------------------|---|-------------------|

NAME OF PROPERTY
NOM DE LA PROPRIÉTÉ

DIADEM

OBJECT LOCATED - from descriptive data.
OBJET LOCALISÉ

| | | |
|---|---|------------------|
| UNCERTAINTY 500 m FACTEUR D'INCERTITUDE | Lat. 54°40' | Long. 128°23'20" |
| Mining Division Omineca Division minière | District District | Range 5 Coast |
| 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 underlying rocks are metamorphosed Triassic (?) sediments and volcanics at the east margin of the Coast Range batholith. These rocks are sheared and silicified and narrow quartz veins and sparsely mineralized lenses have formed along fracture zones. Mineralization locally consists of chalcopyrite, pyrite and a little bornite in quartz and altered wall rock in narrow fractures.

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

The property is located at 1,000' elevation on the west side of the Skeena River, just south of Shannon Creek and some 13 miles northeast of Terrace.

The showings were held as the Diadem group by A. Baxendale in 1923. Work to that date included open cuts and a 12 foot shaft. The property was acquired by B. Shannon, of Usk, in 1925 and some work was reported the following year. In 1927 Shannon optioned the property to Seattle interests who incorporated Canadian-American Consolidated Mining Company, Limited in 1928. Work included trenching and a drift adit at about 1,000' elevation was driven to intersect the bottom of the shaft. Two trial shipments of about ½ ton each of ore were made to smelters at Anyox and Trail.

Mr. Shannon optioned the property in 1929 to the R.E. Doan interests, of St. Gabriel California, who incorporated American Copper Mines, Limited in April 1930. A crosscut adit begun at the 620' elevation on the Orion claim some 400' below the drift adit was driven to 930' in 1930. The company charter was surrendered in 1931.

Nicholson Creek Mining Corporation, of Seattle, in 1934 acquired 69 claims including the Diadem property and the nearby Phoenix property (103 I/9, Mo 2). The initial was on the Phoenix but in 1938 two bulk samples were shipped from the Diadem to the Provincial Government Sampling Plant at Prince Rupert. Underground exploration in the lower adit was carried out in 1940 and in the period 1951-55 inclusive; work to 1955 totalled about 1,200' of crosscut, drifts and raises, and over 2,200' of diamond drilling. The company also held the Mac Shannon property (see 103 I/9, Cu 11).

HISTORY OF PRODUCTION/HISTORIQUE DE LA PRODUCTION

Bulk samples of sorted ore shipped in 1928 and 1938 assayed as follows:

| | <u>Tons</u> | <u>Gold (oz/t)</u> | <u>Silver (oz/t)</u> | <u>Copper (%)</u> |
|---------|-------------|--------------------|----------------------|-------------------|
| approx. | 0.5 | .015 | 0.8 | 6.08 |
| approx. | 0.5 | .002 | 2.4 | 5.55 |
| | .374 | 1.26 | 44.0 | 16.3 |
| | .327 | 0.01 | 1.4 | 4.7 |

From a one ton bulk sample shipped in 1952, 2 ozs silver and 129 lbs copper were recovered. (Reports of Minister of Mines, B.C.: 1928, p. 144; 1938, p. B 39; 1953, p. 42).

REFERENCES/BIBLIOGRAPHIE

Reports of Minister of Mines, British Columbia: 1923, p. 102; 1925, p. 126; 1926, p. 125; 1927, p. 126; 1928, p. 144+; 1929, p. 152; 1930, p. 133⁺⁺; 1931, p. 70; 1934, p. C 5; 1935, p. C 7; 1938, p. B 39; 1948, p. 76; 1951, p. 108; 1952, p. 85; 1953, p. 92; 1954, p. 85; 1955, p. 21.

Kindle, E.D.; Mineral Resources of the Terrace Area, Coast District, British Columbia; Memoir 205, p. 56, Geol. Surv. of Canada, 1937.

Duffell, S. and Souther, J.G.; Geology of Terrace Map Area, British Columbia; Memoir 329, p. 86, Geol. Surv. of Canada, 1964.

MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

Map 1136 A, Terrace, (Geol.), Sc. 1":4 miles, accomp. Memoir 329.

Geological Sketch Map, Terrace Area, Sc. 1":4 miles, accomp. Paper 36-17, Geol. Surv. of Canada.

Map 103 I/9, Usk, (Topo.), Sc. 1:50,000.

REMARKS/REMARQUES

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| Comp./Rev. By Comp./rév. par | DMacR | | | | | | |
| Date Date | 02-84 | | | | | | |