

PRODUCT GOLD  
PRODUIT

PROVINCE OR PROVINCE OU British Columbia  
TERRITORY TERRITOIRE

N.T.S. AREA 104 K/1  
RÉGION DU S.N.R.C.

REF. AU 1  
RÉF.

NAME OF PROPERTY BEAR-TOTEM (MUDDY LAKE) (GOLDEN BEAR)  
NOM DE LA PROPRIÉTÉ

OBJECT LOCATED - from Geological Fieldwork, 1985.  
OBJET LOCALISÉ

UNCERTAINTY FACTEUR D'INCERTITUDE	Lat. 58°13' Lat.	Long. 132°17' Long.
Mining Division Atlin 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

High-level epithermal type mineralization occurs in fault-bounded Permian silicified-dolomitized limestone and breccia, and carbonatized tuffs (listwanites) of pre Upper Triassic age. The Bear Main zone has an indicated strike length of about 110 m and average width of 10 m. The mineralization includes from 0.1 to 5% pyrite and up to 27.8 g/mt Au and 67 g/mt Ag. The native gold is micron to submicron size and very erratic in distribution. Mineralization in the Fleece Bowl zone, located about 1 700 m north of the Bear Main zone, is associated with quartz veining and a 'felsic' dyke.

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

The property is located at elevations of 1 300 to 1 900 metres on the north side of Bearskin (Muddy) Lake some 135 km west-southwest of Dease Lake.

The showings were discovered by Chevron Minerals Ltd in 1981. Chevron Canada Resources Limited was incorporated in 1982. Work in 1982-85 included geological mapping, geochemical soil and rock chip surveys (919 samples), magnetometer and electromagnetic surveys over 17.3 km, trenching, and 19 450 m of diamond drilling in 17 holes, in part on the Totem claim about 2 km north of the Bear Main zone. Drill indicated reserves in the Bear and Fleece Bowl zones were reported as 1,130,000 tons averaging 0.38 oz/t Au (Northern Miner 30/06/86, p. 6).

North American Metals Corporation in June 1986 acquired from Chevron an option to earn a 50% interest within three years.

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HISTORY OF PRODUCTION/HISTORIQUE DE LA PRODUCTION

REFERENCES/BIBLIOGRAPHIE

Exploration in British Columbia; BCDM: 1982, p. 392;  
1983, p. 539.

Geological Fieldwork, BCDM: 1983, p. 352; 1985, p. 175+.

Mineral Exploration Review; BCDM: 1984, p. 9; 1985,  
pp. 10, 17.

MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

Map 1262 A, Tulsequah & Juneau, (Geol.), Sc. 1":4 miles, accomp.  
Memoir 362, Geol. Surv. of Canada, 1970.

Geological plan of the Muddy Lake prospect, Sc. .188 cm:50 m,  
Fig. 25-2, Geological Fieldwork 1985, p. 177.

REMARKS/REMARQUES

Comp./Rev. By Comp./rév. par	DMacR						
Date Date	09-86						