

PRODUCT COPPER  
PRODUIT

PROVINCE OR PROVINCE OU British Columbia  
TERRITORY TERRITOIRE

N.T.S. AREA 93 L/11  
RÉGION DU S.N.R.C.

REF. CU 11  
RÉF.

NAME OF PROPERTY CRATER, MARMOT (COPPER)  
NOM DE LA PROPRIÉTÉ

OBJECT LOCATED - Chimney zone.  
OBJET LOCALISÉ

UNCERTAINTY 300 m  
FACTEUR D'INCERTITUDE

Lat. 54°31'20" Long. 127°07'50"  
Lat. Long.

Mining Division Omineca  
Division minière

District Range 5, Coast  
District

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 property is underlain by Lower and Middle Jurassic Hazelton Group volcanic rocks which are broadly folded about an anticlinal axis striking northerly through Crater Lake. A granodiorite plug is exposed near the southwest corner of the property, while lesser dykes and sills cut the volcanics in diverse directions.

On the ridge between the lake and Webster Creek a flow of propylitized green andesite overlies red andesite and is mineralized in the basal 50 to 80 feet. Chalcocite, bornite, chalcopyrite, pyrite, tetrahedrite and hematite are disseminated through the rock.

In addition to the strata bound occurrences, mineralization occurs in shears, of which the "Chimney" showing is the best example. The shears are characterized by abundant epidote, calcite and quartz stringers, and mineralized with hematite and copper sulphides. A showing on a cirque wall assayed 0.13% Cu and 0.11 oz/t Ag over a 2 metre width for a length of 21 metres.

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

The property is located at elevations of about 5,500 feet on the ridge between Crater Lake and Webster Creek, 13 miles south-southwest of Smithers.

This ground was apparently included in the Lava 1-135 claims staked by Falconbridge Nickel Mines Limited in 1968. In 1969 their holdings included the Lava group (56 claims) and the Crater A1-H8, Marmot 1-16, and Webster 1-4 claims. Exploration work during the period 1968-1970 included geological mapping, magnetometer and self potential surveys, and soil and silt geochemical surveys.

Maharaja Minerals, Limited, in 1972 held the Crater and Marmot groups. The Crater A1-H8 group was expanded in 1973 to include the Crater 9-18 claims. Work during 1973 included geological mapping, chip sampling across 100 feet of section covering Crater 9-12 and Marmot 8, 10. In 1975 the property comprised the Crater 1-8, Hankin A1-A8, and Marmot 1-14 claims. Surface drilling in 2 holes totalling 47 metres on Crater 2 & 3 claims, near the Chimney zone, intersected very minor mineralization.

The company name (Maharaja) was changed in 1977 to Mecca Minerals Limited. In 1978 the property was restaked as the Copper 1-4 claims (32 units). Diamond drilling was done in 3 holes.

Report of Minister of Mines, British Columbia:  
1968, p. 129.

Geology, Exploration, and Mining; British Columbia Dept.  
of Mines: 1969, p. 86; 1973, p. 345+; 1976,  
p. E 151.

Taylor, B.; Report on the Copper 1-4 Mineral Claims,  
31/01/80 - in VSE Statement of Material Facts, Mecca  
Minerals Limited, 15/07/80.

## MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

Map 69-1, Smithers, Hazelton, and Terrace Areas, (Geological  
compilation), Sc. 1":4 miles, British Columbia Dept. of  
Mines.

#Copper 1-4 claims, (Geol.), Sc. 1:4800 - accomp. Rept. by  
Taylor, 1978.

Map 93 L/11 E, Mineral claim map, British Columbia Dept. of  
Mines.

Map 5310 G, Telkwa, (Aeromag.), Sc. 1":1 mile.

\*Map 93 L/11, Telkwa, (Topo.), Sc. 1:50,000.

## REMARKS/REMARQUES

Comp./Rev. By Comp./rév. par	DMacR						
Date Date	09-80						