GM 23388

GEOLOGICAL AND GEOCHEMICAL REPORT ON CASA BERARDI #13 GROUP

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Énergie et Ressources naturelles
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GEOLOGICAL AND GEOCHEMICAL REPORT

On

CASA BERARDI #13 GROUP

Casa Berardi Township, Abitibi West, Quebec

By

John I. Sharpe, Ph.D.

United States Smelting Refining and
Mining Company
Suite 827, 20 King Street West
TORONTO 1, Ontario

October 31, 1968

Ministère des Richesses Naturelles, Québec
13 JAN 1969
SERVICE DES GITES MINERAUX
No GM- 23388

PUBLIC

GEOLOGICAL AND GEOCHEMICAL REPORT
CASA BERARDI #13 GROUP
CASA BERARDI TOWNSHIP, QUEBEC

PROPERTY:

The property consists of 39 claims numbered 268449' to 268450' claims 1 to 5 each, 268451' claims 1 to 4, 268611' to 268613' claims 1 to 5 each, 272566' claims 1 to 5, 272650' claims 1 to 5, of 40 acres each, located in Casa Berardi Township. The property is accessible via float plane from the town of La Sarre, 50 miles to the south.

PREVIOUS WORK:

The northern edge of the property was previously held by Moneta Porcupine Mines who drilled one hole on the present claim 268451' - 3. No other evidence of previous work are apparent on the ground.

WORK DONE:

A geochemical sampling program and geological observations were carried out during the periods June 26 to July 5 and August 7 to August 8, 1968. The work was done by Andrew Little, Party Chief, assisted by John Zavitz and John Hakala and supervised by John I. Sharpe.

SURFICIAL GEOLOGY:

The claim block encompasses the north end of Casa Berardi Lake and, except along the northwestern boundary, the block is covered by muskeg swamp and stunted spruce

forest. The surficial deposits where they can be tested under the muskeg consist of glacial-lacustrine clay and fluvial silts. Occasional exposures of boulder till outcrop in the stream bed at the north end of the property.

GENERAL GEOLOGY:

No outcrops were found on the property. The only data on the geology comes from an old diamond drill hole with core in the northwestern corner of the group and sparse outcrops and drill holes located outside the claims.

The above mentioned drill hole on Claim 268451-3 intersected bedded tuffaceous rocks and graphitic argillite with associated pyrite. Similar rocks are found south of the property. Judging from the geophysical data (airborne and ground electromagnetic and magnetic surveys) and the sparse drill hole information, most of the property may presumed to be underlain by intermediate pyroclastic volcanic rocks. These rocks contain conductive strata which trend North 70° East in the northern part of the claim group and North 40° East in the south part of the claims. An interpretation of the regional geology suggests a large synclinal fold axis trends North 70° East across the centre of the property.

GEOCHEMICAL SURVEY:

All available stream beds and adjoining ground water seeps were geochemically sampled at intervals of 200 to 400 feet using a six-foot tube auger.

The samples consisted of brown, grey or bluish silty clay. The samples were sieved for the -80 mesh fraction. Determinations were made for hot HCl- extractable Cu on all samples and cold-extractable Zn on certain samples. The results in parts per million metals are indicated on the accompanying map.

The background range determined for this region for hot HCl Cu is 18 ppm and less; the threshold values are the range 18-22 ppm Cu. Samples from the northern part of the property are moderately above the Cu threshold.

The samples were analysed at Barringer Research Laboratories, Toronto.

October 31, 1968

John I. Sharpe, Ph.D.

Illustrations: Geology and Geochemistry
Casa Berardi #13 Group

A P P E N D I X

STATEMENT AS TO QUALIFICATIONS OF SUPERVISING GEOLOGIST

I hold the following University degrees:

B.Sc. (Honours Geology), University of New Brunswick, 1956.

M.Sc. (Geology), University of New Brunswick, 1958.

Ph.D. (Geology), McGill University, 1964.

Between the years 1955 to 1957 I worked as a geologist for mining companies engaged in exploration and property development.

During the period 1958 to 1966 I was employed by the Quebec Department of Natural Resources as a party chief and as Resident Geologist, Noranda District.

Since 1967 I have worked for United States Smelting Refining and Mining Company as Geologist, Canadian Mining Exploration, Eastern Canada.

I am a Fellow of the Geological Association of Canada and a Member of the C.I.M.M.

October 31, 1968

John I. Sharpe, Ph.D.

