GM 18173

GEOLOGICAL REPORT

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Énergie et Ressources naturelles
Québec

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Ministère des Richesses Naturelles, Québec

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SERVICE DES GITES MINÉRAUX

No GM- 18173

REPORT ON LAMOTTE TOWNSHIP PROPERTY, ABITIBI, QUEBEC

INTRODUCTION

Dumont Nickel Corporation holds under option the mining rights to 11 claims totalling 800 acres located in east central Lamotte township, Abitibi, Quebec.

This report describes the property with respect to location, accessibility, general and economic geology and proximity to operating mines. Numerous companies are actively exploring the Preissac-Lamotte district, the emphasis directed toward locating nickel, copper and molybdenum sulphide deposits.

A strong and persistent sulphide zone containing minor patchy chalcopyrite mineralization exists in the northern portion of the claim group. In view of the property's favorable geological location it is recommended that an exploration program be undertaken to investigate the sulphide occurrence as well as the balance of the property which is covered by overburden.

Recommendations include a geophysical program consisting of magnetometer and electromagnetic surveying followed by diamond drilling.

PROPERTY

Dumont Nickel Corporation holds under option the mineral rights to 11 contiguous claims, registered under 5 licenses and comprising 800 acres. The property is located in Range VI, east-central Lamotte township and extends westward into the waters draining from Malartic Lake to Lake LaMotte. The claims form a near rectangular shaped block having an east west extent of 1½ miles and a depth of 1 mile. Tormont Mines holds ground adjacent to the north.

The claims are in good standing and duly registered with the Quebec Department of Natural Resources as follows:

LICENSE NO.	CLAIM NO.	LOT NOS.	ACREAGE	EXPIRY DATE
148852	1, 2,	46, E½ 47,	186	December 9
196054	1, 2,	N½ 48, 43,	148	June 27
196055	1, 2,	44, 45,	196	June 27
203677	1, 2,	S½ 48, Bed of Lake	90	August 15
204188	1, 2, 3,	Bed of Lake, 42	180	July 10
5 Licenses	11 Claims		800 Acres	

LOCATION AND ACCESS

The property is located geographically due north of Malartic and midway between Malartic and Amos. Means of access is via paved provincial highway No. 60 between Val d'Or and Amos, then 3 miles by range road directly to the property.

Experienced labour, power, water and all services required of exploration are therefore readily available.

TOPOGRAPHY AND GENERAL GEOLOGY

With the exception of a few low outcrops in the north portion of the property, the claims are essentially drift or water covered. Some portion of the surveyed lots are devoted to agricultural purposes.

The claims are underlain by metamorphosed Keewatin volcanics, chiefly hornblende schist and hornblende syenite. Peridotite occupies the north western section of the property. A regional northeasterly trending diabase dike intrudes the southern corner of the group.

Near the north boundary, on license 148852, claim 2, there exists a strong and persistent zone of massive sulphides within a fine grained silicious and

tuffaceous rock. The sulphide zone is exposed intermittently for a length of some 3000 feet, with widths varying between 20 - 50 feet. The zone strikes approximately north 75° west and appears to dip 70°- 80° to the south. The main sulphide zone is composed chiefly of pyrite and pyrrhotite accompanied by minor amounts of patchy chalcopyrite.

ECONOMIC GEOLOGY

Three types of mineral deposits have been located in the region: Nickel bearing sulphide bodies of the replacement type, quartz veins and granitic rocks containing molybdenite-bismuthinite mineralization and spodumene-beryl pegmatites.

Three molybdenite mines are currently in production in the adjoining townships of Preissac and Lacorne. Marbridge Mines, located 5 miles southwest of the Dumont Nickel option in Lamotte township, is a nickel producer.

WORK HISTORY AND RESULTS

The sulphide zone has been known to exist for a number of years and although held by various individuals over that period, no serious exploration has been undertaken on the property nor are there any reports of work history on file with the Quebec Department of Natural Resources.

S. Cubric, prospector of Malartic, the current property owner and optioner of the claims to Dumont Nickel, has performed considerable surface stripping and rock trenching on the zone in the past two years. In the course of trenching the zone he has taken selected grab samples containing patchy chalcopyrite mineralization that has assayed as high as 1.3% copper.

CONCLUSIONS AND RECOMMENDATIONS

Although only limited surface exploration has been undertaken on the claims to date, they are well located with respect to favorable geology and proximity to proven economic sulphide deposits. Surface trenching on the exposed portion of the strong and persistent sulphide zone has yielded limited copper mineralization in the form of patchy chalcopyrite. The zone occurs near the north boundary of the claim group, however, it appears to assume a fairly steep southerly dip, thereby remaining within the property's limits.

In view of the favorable property location and the fact that copper mineralization has been established in the exposed sulphide zone it is recommended that an exploration program consisting of geophysical surveying and diamond drilling be undertaken to test the economic potential of the claims.

Initially, a magnetometer survey should be conducted over the entire property on a north south line grid of 200 foot interval. Anomalous zones should be surveyed with electromagnetic equipment to test for possible EM coincidence.

While diamond drilling of favorable geophysical targets must necessarily be based on the surveys and interpretation of their results, shallow drill holes are warranted to test the down dip potential of the sulphide zone containing copper mineralization.

On the basis of a 200 foot line geophysical grid and allowing for a minimum of electromagnetic check surveying, approximately 35 miles of line cutting and geophysical surveying would require an approximate expenditure of $5,000.00.

A minimum of 1500 feet of shallow drilling, estimated to cost $5,000.00, is recommended to test the sulphide zone along its strike length. Additional diamond drilling of potential geophysical targets would be based upon results encountered in the surveys.

Dated at Val d'Or, Quebec,
this 27th day of June, 1966.

"John A. Honsberger, P.Eng."

* * *

CERTIFICATE

I, John A. Honsberger, residing at 1200 Forest Boulevard, Val d'Or, Quebec, do hereby certify as follows:

That I attended the University of Missouri School of Mines and Metallurgy and graduated with a B.Sc. Degree in Mining Engineering.

That I am a member of the Association of Professional Engineers of the Province of Ontario.

That I have no direct or indirect interest, either present or expectant in the claims forming the Lamotte township property as described in my report, a property held under option by Dumont Nickel Corporation, nor in the shares or securities of that company.

That the report on the Lamotte township property held under option by Dumont Nickel Corporation, attached herewith and dated June 27, 1966, is based:

a) on detailed examination of all pertinent data describing the local, regional and economic geology and relative developments in the area, as to be found in government reports and geological maps.

b) on a familiarity with numerous properties in the immediate Preissac-Lamotte district, derived through personal examinations and reporting on the same.

c) on a visit to the property during the summer of 1963.

Dated at Val d'Or, Quebec,
this 27th day of June, 1966.

"John A. Honsberger, P.Eng."