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PALCONBRIDGE NICKEL MINES LIMITED REPORT OF GEOPHYSICAL ASSESSMENT WORK NEW BRUNSWICK URANIUM METALS AND MINING LIMITED GLAINS PATRICIA MINING DISTRICT DECEN

INTRODUCTION

This report describes surveys and interprets results over fiftythree (53) claims in the Patricia Mining Division, names and numbers of which appear on the accomanying map.

Claims may be located on Ontario Claim Map M-1888, Bell Lake. Ground Magnetometer and AFMAG - Longwire Surveys were carried out over these claims by Central Geophysics of Winnipeg. Dates of Surveys are shown on individual survey sheets.

Claim corners have been located with respect to the geophysical grid, position name and number of all claim posts are itemized on each survey sheet.

GEOPHYSICAL SURVEYS

A Barringer Nuclear Precession Magnetometer was used for determining magnetic intensity, and all readings have been converted to gammas and plotted on the right hand side of grid lines on the accompanying maps.

AFMAG - Longwire is a specialty of Central Geophysics Limited, using an AFMAG detector with grounded longwires as a signal source. This particular method is known as the AFMAG - AFLEC Survey. AFMAG results have been plotted to the left of grid lines on the accompanying maps.

Magnetometer and AFMAG readings were carried out at 100-foot intervals on picket lines spaced 200 feet along a cut base line. Contours have been drawn at suitable intervals and AFMAG profiles have been included on maps to aid interpretation.

INTERPRETATION

For purposes of interpretation, AFMAG Longwire anomalies can be divided into these three (3) principle types:

- 1. Bedrock Anomalies
- 2. Overburden Anomalies
- 3. Fault or Slip Anomalies

Bedrock Anomalies are those which are caused by conductive material such as sulphide and/or graphite. These show varying degrees of strength depending upon amount of concentration of conductive material. Correlation with respect to magnetic anomalies can be read directly from geophysical maps by using contours of magnetic intensity. Direct correlation of magnetic and electromagnetic anomalies indicate the presence of magnetic sulphide such as pyrrhotite or mixtures of magnetite and graphite. These types of anomalies have been marked on the accompanying maps as follows:

- 1. A 1 Strong Conductivity
- 2. A 2 Moderate Conductivity
- 3. A 3 Low Conductivity

Overburden Anomalies are caused by lenses of conductive gravel, sand and/or clay. Usually intensity of response is a function of shape of overburden lens. Strength of anomaly increases as the ratio thickness; breadth of the overburden lens increases. Overburden Anomalies have been classified and marked B - 1, B - 2 and B - 3 respecting strong, medium and weak conductive responses.

Conductivity is often detected along narrow, wet shears or faults in bedrock. These usually respond in a characteristic manner and are identified as C - 1, C - 2, and C - 3 respecting strong, medium and weak conductivity.

Each anomaly on the accompanying survey sheets has been marked with the appropriate classification described above. This classification in conjunction with configuration of magnetic contours should be reviewed and reinterpreted in light of the individual readers geological background in the area.

CONCLUSIONS

Two distinct magnetic bands traverse the northern part of the property.

CONCLUSIONS:

These may represent more basic volcanic bands in an intermediate or acid valcanic environment.

There are a large number of electromagnetic anomalies which have been classified according to the scheme presented above. All of the anomalies are weak. The significance of these anomalies will have to be interpreted when geological maps are completed and data on overburden depths is known.

AUGUST 18, 1970

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PERFORMANCE & COVERAGE CREDITS

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Performance and coverage credits do not apply to airborne surveys

PERFORMANCE & COVERAGE CREDITS

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ASSESSMENT WORK DETAILS	MINING_CLAIMS_TRAVERSED	
Township or Arca Claim Map H. 1888, Bell Lake	List numerically	
Type of Survey <u>Magnetometer</u>	.225694	
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Chief Line Cutter Contral Coophysics Idmited	.225697	ł
or Contractor 736 Onborne St. Winning 13 Nanitoba	225793	L
Address	225714 225794	l
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c/o Central Coophysics	225731 225700	
Address	225722	l
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	225802	l
Address	225730 225803	l
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COVERING DATES	225805	
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Line Cutting	225759 225807	8
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Field February 15 - February 23, 1970	225761 225809	3
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Number of Stations Within Claim Group	225785	
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Performance and coverage credits do not apply to airborne surveys

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AREA CODE -- 416 TELEPHONE -- 365-6918

WHITNEY BLOCK QUEEN'S PARK TORONTO 182, ONT

DEPARTMENT OF MINES AND NORTHERN AFFAIRS MINING LANDS BRANCH

March 11th, 1971.

Mr. W.A. Buchan, Mining Recorder, Court House, Sioux Lookout, Ontario.

> Re: Mining Claims PA. 225694 et al, South of Sturgeon Lake Area, File No. 2.121

Dear Sir:

The Geophysical (Magnetometer and Electromagnetic) assessment work credits as listed with my Notice of Intent dated February 23rd, 1971, have been approved as of the date above. Please inform the recorded holder and so indicate on your records.

Yours very truly,

Falminaking

Fred W. Matthews, Supervisor, Projects Section.

- c.c. Falconbridge Nickel Mines Ltd., 21st floor, 7 King Street E., Toronto 210, Ontario.
- c.c. Mr. H.L. King, Resident Geologist, 808 Robertson St., Kenora, Ontario.



SEQUENCE (x)



