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GEOPHYSICAL REPORT FOR NAHANNI MINES LIMITED ON THE NORTH PIPESTONE PROPERTY STOCK TOWNSHIP PORCUPINE MINING DIVISION TIMMINS, ONTARIO

# RECEIVED

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MINING LANDS SECTION



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# TABLE OF CONTENTS

Page	þ
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INTRODUCTION 1	•
PERSONNEL	2
LOCATION AND ACCESS 2	)
CLAIM GROUP	3
GENERAL GEOLOGY	\$
PREVIOUS EXPLORATION ACTIVITIES 4	ł
GEOPHYSICAL PROGRAM 4	ł
SURVEY RESULTS	5
RECOMMENDATIONS AND CONCLUSIONS	5
CERTIFICATION	

# LIST OF FIGURES

Figure 1 - Location Map Figure 2 - Property Location and Claim Map

# LIST OF MAPS

Map	No.	3	-	Magnetic Survey Contour Map
Map	No.	4	-	VLF-EM Survey - Profile Map
			-	Cutler, Maine
Map	No.	5	-	VLF-EM Survey - Fraser Filter
				Cutler, Maine
Map	No.	6	-	VLF-EM Survey - Profile Map
			-	Annapolis, Maryland
Map	No.	7	-	VLF-EM Survey - Fraser Filter
			-	Annapolis, Maryland

## APPENDICES

Appendix	Α	-	EDA Omni IV System	
Appendix	В	-	EDA Omni Plus System	
Appendix	С	-	Technical Data Stateme	ent

#### INTRODUCTION

During December 1990 a total of 5.2 miles of grid was established on the 4 claims property. A total field magnetic and two VLF surveys were completed on the unpatented contiguous claim group known as the North Pipestone Property in Stock Township in the Porcupine Mining Division, Province of Ontario.

A total of 448 magnetic and 464 EM readings were recorded during the survey period from January 2, 1990 to January 3, 1991. The linecutting, magnetic survey and electromagnetic survey were completed by personnel of Exsics Exploration Limited. The interpretation and report were completed by the author from January 3, 1991 to January 29, 1991.

The project area is located in the northeast corner of Stock Township approximately 35 miles northeast of the City of Timmins.

The purpose of the survey was to identify the lithological units structural features and geophysical anomalies favourable for gold deposition.

- 1 -

#### PERSONNEL

The people directly involved with the field work and the collection of all data are as follows:

Robin Mathieu	.Timmins,	Ontario
Paul Edwards	.Timmins,	Ontario
Ed Brunet	.Timmins,	Ontario

The work was carried out under the supervision of J. C . Grant.

#### LOCATION AND ACCESS

The 4 contiguous unpatented mining claims are located in the northeast corner of Stock Township, Porcupine Mining Division, Province of Ontario as shown in Figure 1.

The project area is 3/4 of a mile southwest of the Montclerg Gold deposit and is approximately 5 miles due east of the Clavos Gold deposit.

Access to the property is via provincial Highway 101 East from Timmins, north on Highway 577 and then west along a concession road.

The property is covered by a thick, 100 to 150 foot sequence of glacial gravel, sand and clay.



FIGURE 1 | LOCATION MAP 0 40

400 800 1200m

#### CLAIM GROUP

The North Pipestone Property consists of 4 contiguous unpatented mining claims as shown in Figure 2 and includes the following claim numbers:

P-1129497, P-1129498, P-1129499, P-1129471 N1/2 Lot 5, Con VI Stock Township

The mineral rights are owned 100% by Nahanni Mines Limited, Toronto, Ontario. The surface rights are owned by Remi Desrochers, Lot 5, Con VI, Stock Township.

#### GENERAL GEOLOGY

The project area is located in the Precambrian Shield. The rocks are a sequence of meta-sedimentary units consisting of argillites and greywackes intruded by a series of felsic sills. These units lie south of a sequence of ultramafic flows. All units are in turn cross cut by a series of north-northwest trending diabase dikes. Structurally the property is situated on the major east trending Pipestone Fault which is host to several gold deposits in the area. The fault is located between the sediments and the volcanics.



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FIGURE 2: CLAIM MAP

## PREVIOUS EXPLORATION ACTIVITIES

Research has revealed that the property has been subject of limited exploration efforts in the past. This activity consisted of numerous magnetic and electromagnetic surveys which were completed for assessment requirements.

### GEOPHYSICAL PROGRAM

During the period from December 17th to December 19th, 1990, a total of 5.2 miles of grid were established. A total field magnetic and gradient survey and two VLF-EM surveys were performed.

The baseline and tie-line were established with an east-west strike and the grid lines with a spacing of 125 meters were established at right angles. All lines were picketed at a 25 meter interval. Station 0+00 on the baseline is located at the northeast corner of claim P=1129497 on the Stock-Clergue Township line.

A total of 448 magnetic readings and 464 VLF-EM readings were recorded during the survey period from January 2, 1991 to January 3, 1991.

### Magnetic and Gradient Survey:

The magnetic gradient survey was completed using the EDA Omni IV system with readings taken at 12.5m intervals. Specifications for this unit can be found as Appendix A of this report.

#### SURVEY RESULTS

Generally the surveys were successful in returning several areas of interest on the grid.

Certainly the major feature noted by the magnetic survey is the massive ultramafic intrusive over the northern portion of the grid. This intrusive appears to have been crosscut by a fault or dike like structure striking north-northwest across lines 100MW to 200MW from 230MS to BL respectfully. There also appears to be a second cross structure coming into the intrusive in the area between lines 500 and 600MW, north end.

The magnetics also show the existence of a diabase dike in the area of line 600MW from 800MS to 500MS, with the possibility of a second dike like structure in the area of 200MW, south end.

One target area for future follow-up may be on line 100MW at 225MS represented by a mag low.

The major VLF-EM feature on the grid represents the pipeline striking northeast to southwest across the entire grid from LO/300MS to L700MW/600MS.

Two further areas of interest would be the weak VLF-EM zones represented by deflections. These two zones parallel each other with the northern zone striking roughly east-west across lines 0+00 to 200MW at 450 to 475MS and the southern zone striking at about 250 degrees across lines 100MW to 300MW.

Both of these features have subtle magnetic association represented by bulging in the magnetic contours.

### CONCLUSIONS AND RECOMMENDATIONS

The surveys did prove the existence of some minor cross structure which may be fault controlled diabase dikes.

The weak EM responses on the southeast section of the grid may relate to weak sulphide horizons which could be masked by conductive overburden, or they may relate to clay ridges or troughs within the overburden.

Should drilling be planned, two areas worthy of testing may be the weak magnetic low on LlOOMW at 2+12.5MS and the EM target on LlOOMW at 500MS. However, caution would be advisable in the area of the EM response until further geophysical follow-up, ie, IP or Deep EM, has been done to prove the existence of sulphides and not overburden noise as the source of the zones.

Respectfully Submitt John C. Grant, GET, JOHN GRANT FGAC Qualification. FELLOW 2.5347

#### CERTIFICATE OF QUALIFICATIONS

- I, John Charles Grant do hereby certify:
  - that I am a geophysicist and reside at Lot 2 Martineau Avenue, Kamiskotia Lake, Timmins, Ontario.
  - 2. that I am a Fellow of the Geological Association of Canada.
  - 3. that I am a member of the Certified Engineering Technologist Association.
  - 4. that I graduated from Cambrian College of Applied Arts and Technology, Sudbury Campus in 1975 with an Honour's diploma in Geology Technology.
  - 5. that I have practised my profession continuously for 13 years.
  - 6. that my report on the NORTH PIPESTONE PROPERTY, for NAHANNI MINES LIMITED, is based on work carried out under my supervision.
  - 4. I hold no specific or special interest in the described property. I have been retained as a Consulting Geophysicist for "the property".

Dated this 20th day of February, 1991 at Timmins, Ontario



John C. Grant, C.E.T., F.G.A.C.

Mining Act       (Geophysical, Geological and Geochemical         Type of Survey(a)       Mining Division       Township or Area         Mining Division       Township or Area       Stock         Recorded Holder(a)       Mining Division       Township or Area         Address       Mining Division       Stock         Address       Mining Division       Stock         Address       Mining Division       Stock         Address       Mining Division       Stock         ZZZO - 7 King SHE       Unearle       Mission         Survey Company       Exsist S       Stock A Trock       Mission         Survey Company       Exsist S       Stock A Trock       LTTX         Name and Address of Author (of Geo-Technical Report)       Date of       Date of         J. C. GRANT       Box I SFC       Internet Stock       Date of         Geophysical       Claim       Mining Claims Traversed (List in numerical sequen)         Brecial Provisions       Geophysical       Days per         For first survey:       Other       Mining Claim       Mining Claim         For each additional survey:       Other       Magnetometer       Ho         INZA 4 & S       Stock       Stock       Stock <td< th=""><th>tor's Licence No.       1       1       1       2       1        1</th></td<>	tor's Licence No.       1       1       1       2       1        1
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TAYLOR

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