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REPORT ON

RECEIVED

GEOLOGICAL SURVEY

OCT 7 1982

RATTRAY TOWNSHIP, ONTARIO

MINING LANDS SECTION

#### I. INTRODUCTION

A geological survey was carried out during July, 1982 over lines cut in February of 1980. Results are shown on the enclosed plan.

#### II. LOCATION, ACCESS AND OWNERSHIP

The claims covered by the survey are located in the north-west corner of Rattray Township, District of Temiskaming, Ontario. They are numbered L476710 and L531358. They are recorded in the name of Superior Northwest Inc., P.O. Box 1110 Sault Ste. Marie, Ontario.

Access to the claims is by trails and geophysical lines from Highway 624 about 3 miles west of the claims from a point approximately 7 miles south of Larder Lake, Ontario.

## III. PREVIOUS EXPLORATION

No previous work was noted on the two claims during the survey, and none is recorded in the office of the Provincial Geologist.

#### IV. TOPOGRAPHY

The major part of the property is covered by Pleistocene drift, gravel and swamp. Rocky hills up to 20 feet above the surrounding area with fair to good rock exposure occur in a few areas. A large part of the claims are covered with drift, swamp or beaver ponds with scattered very small outcrops in some

# Topography (Continued)

of the higher areas. The two claims are covered with a mixture of mature birch, spruce, poplar and occassional maple with a fairly dense second growth in open spaces, and black spruce in the more swampy parts. A number of beaver ponds or now dry beaver meadows cover many of the stream courses.

#### V. SURVEY PROCEDURE

A grid line was laid out across the property with a baseline running at an azimuth of about 345° across the property. Crosslines were cut perpendicular to the baseline at 400-foot intervals. The picket lines were marked with fluorescent red paint for easier observation. Trial lines were run east and west from the picket lines by pace and compass in search of poorly exposed outcrop. All outcrops were noted in a field book as to rock type and distance from picket lines. This information was then plotted on a 1" = 400' scale plan.

#### VI. GEOLOGY

The general geology of Hearst and part of McFadden
Townships has been described by J.E. Thomson (1). McFadden and
Rattray Townships were mapped by Z.L. Mandziuk (2) in 1978.

The claims are underlain by a volcanic sequence of rocks intruded by ultramafic to felsic intrusive rocks.

Sediments, probably of the same relative age occur to the north and younger Huronian sediments overly the volcanic and intrusive

<sup>(1)</sup> O.D.M. Report Vol. 56 Part 8, 1947

<sup>(2)</sup> O.G.S. Report 204, 1980

### Geology (Continued)

rocks to the east.

The volcanic rocks consist of tholeiltic to komatiltic basaltic rocks ranging in colour from grey to dark green to black. They are generally fine grained massive to pillowed flows. Light coloured felsic calcalkaline flows and tuffs are interbedded.

The intrusive rocks consist of a wide range of rock types. Lamprophyre and hornblendite occur as fairly large outcrop to small dykes. They are coarse grained and often occur in proximity to granitic or syenite bodies. Hornblendite is coarse to medium grained, dark green in colour consisting of about 60% hornblende and 40% plagioclase feldspar. The lamprophyre is predominately biotite with 10-20% hornblende and plagioclase feldspar. The granitic and syenitic rocks are light in colour fine to coarse grained consisting of plagioclase and microcline feldspar, quartz and 5-10% mafic minerals.

The sediments are greywacke often schistose and chloritized with interbedded argillite, and conglomerate bands.

The Huronian rocks largely lie off the property to the east.

# VII. CONCLUSIONS

The geological survey shows a volcanic sequence of rocks intruded by felsic to ultramafic intrusives. No economic mineralization was noted but the geology is similar to other locations in the Larder Lake area where gold mineralization has been found.

Respectfully submitted

October 1, 1982

R.A. MacGregor, P. Eng.

#### CERTIFICATE

- I, Robert A. MacGregor, certify:
- 1. I am a Mining Engineer residing at 134 Palace Drive, Sault Ste. Marie, Ontario. I have worked as a mining engineer and geologist for the past 17 years.
- 2. I am a member of the Association of Professional Engineers of the Province of Ontario and a member of the Canadian Institute of Mining and Metallurgy.
- 3. I attended Queen's University for two years in the Mining-Geology course.
- 4. I personally carried out or supervised the field work on the subject claims.

R.A. MacGregor

McFadder Twp 32 N Geological Survey Rattray/ Twp Rattray Twp. Ontario 28N Scale 1": 400' i poplar 476710 alders Legend 24 N. some birch Huronian Grey wacke scatter ed Intrusives spruce Ca Granite Poplar 23 Syenite 116 N and Volcanics alders Rhyolite 24 Andesite 11121 531358 Strike and dip poplar of schistosity pond alders possible contact outcrop area

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Mining Recorder
Ministry of Natural Resources
4 Government Road East
P.O. Box 984
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

We have received reports and maps for a Geological Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims L 476710 et al in the Township of Rattray.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 Phone: 416/965-1380

DW: sc

cc: Superior Northwest Inc Sault Ste. Marie, Ontario

cc: Robert A. MacGregor Sault Ste. Marie, Ontario

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Geotechnical Report Approval 2.5095

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	To: Mining Lands	Section, Room 6462, Whitney Block.	(Tel: 5-1380)	
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#### REGISTERED

July 14, 1983

2,5095

Superior Northwest Inc. P.O. Box 1110 Sault Ste. Marie, Ontario P6A 5N7

Attention: Robert MacGregor

Dear Sir:

RE: Geological Survey submitted on Mining Claims L476710

et al in the Township of Rattray

Enclosed is a copy of our letter dated April 19, 1983, requesting additional information for the above-mentioned survey.

Unless you can provide the required data by July 28, 1983, the mining recorder will be directed to cancel the work credits recorded on August 5, 1982.

For further information, please contact Mr. F.W. Matthews at (416) 965-1380.

Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416)965-1380

S. Hurst:mc

Encl.

cc: Mining Recorder

Kirkland Lake, Ontario

1983 04 19 2.5095

Superior Northwest Incorporated P.O. Box 1110 Sault Ste Marie, Ontario Attention: Robert MacGregor.

Dear Sirs:

RE: Geological Survey submitted on Hining Claims 1 476710 et al in the Township of Rattray.

In order to complete your submission we require a geological plan showing:

- a) key map for the location of the property with respect to township boundaries or topographic features.
- b) claim lines and numbers, lot and concession lines, traverse lines, base lines and picket lines, topographic features.
- outcrop designated by colour and by a letter or number corresponding to the rock type as listed in the legend or table of formations,
- d) signature of geologist responsible for the work (author of report),
- e) scale and north direction, the scale not to exceed five hundred feet and not less than one hundred feet to the inch.

For further information, please contact Mr. F.W. Matthews at 416/965-1380.

Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6450 Queen's Park Towonto, Ontario M7A 1W3 Phone: 416/965-1380

R. Pichette:sc

cc: Mining Recorder

Kirkland Lake, Ontario



Geotechnical Report Approval

To: Mining Lands Section, Room 6462, Whitney Block.

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# Ontario

# **Ministry of Natural Resources**

# GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s)GEOLOG	GICAL	
Township or Area Rattre	ay	MINING CLAIMS TRAVERSED
Claim Holder(s) Super:	List numerically	
Survey Company Colex  Author of Report R.A. I  Address of Author 134 Pa		
Covering Dates of Survey	2/80 - 10/82	L531358
Total Miles of Line Cut	· ·	
SPECIAL PROVISIONS CREDITS REQUESTED	DAYS Geophysical per claim	
ENTER 40 days (includes line cutting) for first survey.	Electromagnetic Magnetometer Radiometric	
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Previous Surveys		
File No. Type Date	Claim Holder	
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# GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

N	Jumber of Stations	Number	of Readings	:
S	tation interval	Line spa	cing	
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	Accuracy - Scale constant			
	Diurnal correction method		*** *** *** *** *** *** *** *** *** **	
	Base Station check-in interval (hours)			
	Base Station location and value			····
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O	Instrument			
ELI	Coil configuration			
S	Coil separation	**************************************		
MA	Accuracy			
ELECTROMAGNETIC	Method:		☐ In line	☐ Parallel line
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E	Parameters measured			
	Instrument			
	Scale constant			
IX	Corrections made			
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GR	Base station value and location			
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	Instrument			
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X	— Off time	F	Range	
VIT	– Delay time			
RESISTIVITY	- Integration time			
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R	Electrode array			
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i	Type of electrode			

INDUCED POLARIZATION