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REPORT ON

RECEIVED

GEOLOGICAL SURVEY

ULC - 6 1982

HEARST TOWNSHIP, ONTARIO

MINING LANDS SECTION

I. INTRODUCTION

A geological survey was carried out during June to September 1982 over lines cut in the fall of 1980. Results are shown on the enclosed plan.

II. LOCATION, ACCESS AND OWNERSHIP

The claims covered by the survey are located in the south-central part of Hearst Township, District of Temiskaming, Ontario. The claims are numbered L476794 to 476797; L522769 to 522782; L522787 to 522789; L532256 to 532257; L545062 to 545063; L565043 to 565044; and L578356 to 578357 all inclusive. They are recorded in the name of Superior Northwest Inc., P.O. Box 1110, Sault Ste. Marie, Ontario.

The claims are crossed by Highway 624 about 6 miles south of Larder Lake, Ontario. Logging roads and trails give access to the claims from the highway.

III. PREVIOUS EXPLORATION

There has been a considerable amount of surface prospecting in the past. A number of deep pits were noted during the survey but no information is available on when they were dug of what, if anything, was found.

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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 of the higher areas. The property is covered with a dense second growth of poplar, birch, alder and wild cherry with black spruce in the more swampy parts. With this is a thick growth of underbrush which makes the location of small outcrops difficult. A number of beaver ponds or now dry beaver meadows cover many of the stream courses.

The area has recently been logged over with destruction of picket lines in some places. In general the logging has been helpful in making outcrop more easily seen where moss has been scraped off or tree trunks overturned.

V. SURVEY PROCEDURE

A grid line was laid out across the property with a baseline running about S 60° E 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.

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VI. GEOLOGY

The general geology of Hearst Township has been described by J.E. Thomson (1).

The claims are underlain by a volcanic-sedimentary sequence of rocks cut by small intrusions of felsic to mafic composition. The approximate trend of the rocks is north, north-west and forms the north limb of a synclinal basin.

The volcanic rocks are basic, fine to medium grained and green to dark green in colour. In places they have been altered to chlorite schist with carbonatization.

The sediments consist largely of fine grained greywackes which grade to coarser material up to conglomerates. Due to extensive drift cover, even in areas of outcrop, it is difficult to trace any individual bed. Interbedded with the greywacke is a black graphitic argillite or tuff, particularly along the baseline on claim L476796. Float would indicate the band is probably more extensive than the limited outcrop seen in a few pits and trenches. Conglomerate occurs as one band about 300-400 feet wide and as many smaller bands scattered through the greywackes. It consists of a heterogenous mixture of boulders to pebbles with mafic volcanic clasts predominating. At one location just north of 7 NW on the baseline, sulphide clasts up to 1" were noted. The matrix is a coarse greywacke, or dark green chloritic material.

Intrusives consist of small bodies of diorite or quartz porphyry.

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⁽¹⁾ O.D.M. Report Vol. 56 part 8, 1947

VII. CONCLUSIONS

The geological survey shows a volcanic sedimentary sequence of rocks with interbedded graphitic material. A strong VLF-EM conductor which appears to follow the sediment-volcanic contact is everywhere, obsured by overburden. It may be caused by a graphitic material similar to that from 4 NW to 8 NW along the baseline. However, sulphide clasts in the same area indicate that sulphides are also present and may warrant further work.

A narrow quartz vein, with the surrounding rock highly carbonatized was found on claim L522769. The area warrants further prospecting for gold.

Respectfully submitted

October 15, 1982

Robert 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.

Oct. 15/82.

Date

R.A. MacGregor





July 15, 1983

2.5256

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

Attention: R.A. MacGregor

Dear Sirs:

RE: Geological Survey submitted on Mining Claims | 522769

et al in the Townships of Hearst and Skead

Enclosed are the plans, in duplicate, for the above-mentioned survey. Please show all claim numbers on the plans and return them to this office.

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

Yours Tery truly,

E.F. Anderson Director Land Management Branch

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

R. Pichette:mc

Enc1.

cc: Mining Recorder

Kirkland Lake, Ontario

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Ministry of Natural Resources	Geotechnical Report Approval		[a. 5256]
Mining Lands Com	ıments		
To: Geophysics			
Comments			
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Approved	Wish to see again with corrections	Date	Signature
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To: Geochemistry			
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Approved	Wish to see again with corrections		

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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 522769 et al in the Townships of Hearst and Skead.

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: R.A. MacGregor Sault Ste. Marie, Ontario

Ontario

OFFICE USE ONLY

837 (5/79)

Type of Survey(s) ____Geological

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.

Township or Area Hearst Claim Holder(s) Superior Northwest Inc.	MINING CLAIMS TRAV List numerically
Survey Company Colex Explorations Inc. Author of Report Robert A. MacGregor Address of Author 134 Palace Dr. S.S. Marie, Ont Covering Dates of Survey 10/80 to 10/82 (linecutting to office) Total Miles of Line Cut 23.36	_ L476.796L54506 _ L476.79.7
SPECIAL PROVISIONS CREDITS REQUESTED Geophysical Electromagnetic	L522779 L53504 L522772 L57835 L522772 L57835 L522774 RECEI L522775 Mining-Land L522777
Res. Geol. Qualifications On 102 Previous Surveys File No. Type Date Claim Holder	L522780 L522781 L522782 L522787 L522788 L522789

LA7679A. L532256. (prefix) (number)
L476795L532257
L476796L545062
L476797 L545063
L522769L545043
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GEOPHYSICAL TECHNICAL DATA

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

Number of Sta	itions	Numbe	er of Readings	
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Profile scale				
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Instrument.				
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	– Delay time			
-	- Integration time			
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INDUCED POLARIZATION