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SEP 2 8 1981

MINING LANDS SECTION

REPORT ON

GEOLOGICAL SURVEY

HEARST TOWNSHIP, ONTARIO

BY

R.A. MacGregor, P. Eng.

September 24, 1981

I. INTRODUCTION

A Geological survey was carried out on a group of claims in the south-east part of Hearst Township during the latter part of 1981. Results are plotted on the enclosed maps.

II. LOCATION, ACCESS AND OWNERSHIP

The property is located in the south-east part of Hearst Township. There are 15 claims numbered L522792 to 522793, L523348 to 523352, L545046 to 545051 all inclusive L545054 and L545954. The claims are recorded in the name of Superior Northwest Inc., Box 1110 Sault Ste. Marie, Ontario.

The claims may be reached by following cut lines east from secondary Highway 624 about 6 miles south of Larder Lake, Ontario aor by a trail which leads south along the east side of Sharp Creek from the bridge over Sharp Creek on the Martin-Bird road. The Martin-Bird road is a poor gravel road running east from Highway 624 about 5 miles south of Larder Lake.

III. PREVIOUS EXPLORATION

The claims have been explored by surface work in the past as evidenced by pits scattered over the claims and seen in the geological survey. A few old pipes and drill rods were seen in the bush, evidence that drilling may have been carried out in the past. There are no records available to the author on this past work.

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IV. TOPOGRAPHY

The major part of the property is covered by Pleistocene drift, gravel and swamp. Rocky hills with cliffs of 50 to 100 feet high occur along the creek margins particularly in areas of Cobalt sediments or ultramafic volcanics. The cliffs probably represent fault scarps. Rock exposure is good in areas of Cobalt sediments and some porphyry outcrop, over much of the remaining area it is very poor. 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 wich makes the location of small outcrops difficult. A number of beaver ponds, or now dry beaver meadows cover many of the stream courses.

V. MAPPING AND SURVEY PROCEDURE

A baseline was laid out across the property at an Azimuth of approximately 345°. Crosslines were cut at 400 foot intervals perpendicular to the baseline north-east and south-west. The picket lines were chained and picketed every 100 feet. The pickets were marked with flourescent 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. GENERAL GEOLOGY

The general geology of Hearst Township has been described by J.E. Thomson ⁽¹⁾. The area is underlain by early Precambrian volcanics, sedimentary rocks and intrusives. The early Precambrian rocks are overlain in places by later middle Precambrian sediments.

Thomson classified the volcanic rocks as Keewatin and sediments as overlying Temiskaming. Both these rocks were cut by later Algoman intrusives. A group of diorite, gabbros and serpentinized peridotites are classified as Post Keewatin intrusives. The geological succession of the area as proposed by Thomson is given in the "Table of Formations".

From the mapping, the sediments appear to be related to the volcanics and are probably the same relative age. If this is correct, they should not be correlated with the Temiskaming series.

VII. PROPERTY GEOLOGY

The main rock types occurring on the property are fine grained greywacke grading to conglomerate in places and with graphitic interbeds, mafic to ultramafic volcanics and on the east side a large porphyritic body. Through the central part the older rocks are overlain by younger cobalt series conglomerates, which rise often as bare outcrop or steep cliffs above the surrounding swampy area. From recent mapping it is now believed that the sediments are of the same age as the volcanics and are interbedded in places. Felsic to ultramafic intrusives

TABLE OF FORMATIONS

OUATERNARY

Recent and Pleistocene:

Clay, sand, gravel

Great unconformity

PRECAMBRIAN

Keweenawan or Matachewan:

Diabase

Intrusive contact

Huronian(Cobalt Series)

Conglomerate, greywacke, arkose

slate, quartzite.

Great unconformity

Algoman:

Syenite; syenite porphyry; granite;

granite porphyry; felsite; aplite;

lamprophyre; basic syenite; hornblende syenite; hornblende

diorite; amphibolite, hornblendite.

Intrusive contact

Temiskaming:

Fine-grained sediments; greywacke, arkose, slate, iron formation.

Conglomerate with interbedded

greywacke.

Great unconformity

Post-Keewatin:

Diorite, diabase, gabbro, serpen-

tinized peridotite.

Intrusive contact

Keewatin:

Early Intrusives: Quartz porphyry,

feldspar porphyry, dacite porphyry.

Basic and Intermediate Volcanics:
Greenstone, pillow lava; diabasic,
dioritic, and gabbroic lava, fragmental lava, agglomerate, pyroclastics, dacite, talc-chlorite schists,
andesite, tuff, sheared basic lava.

Acid Volcanics: Ryolite, cherty tuff, rhyolite tuff, tuff agglomerate, fragmental lavas, trachyte.

Carbonatized rocks were found in a number of places along Sharp Creek. They may be related to the faulting along the creek valley or the ultramafic volcanics which outcrop to the east of the creek.

VIII. CONCLUSIONS

The geological survey shows a sedimentary-volcanic sequence of rocks intruded by syenite and porphyry. Strongly carbonatized rocks were noted in a number of places, as well as porphyries carrying several percent of pyrite. Analysis of these rocks should be carried out in the search for gold.

Respectfully submitted

September 24, 1981

R.A. MacGregor, P. Eng.

MIDDLE PRECAMBRIAN

6	Cobalt Sediments
	(a) Conglomerate(b) Greywacke, Argillite
	Unconformity
	EARLY PRECAMBRIAN
5	Felsic Intrusives
	(a) Syenitic(b) Porphyry
	Intrusive Contact
4	Intermediate to Ultramafic Intrusives Basic syenite, lamprophyre, diorite gabbro
	Intrusive contact
3	Metasediments feldspathic wacke, argillite minor graphitic slate conglomerate
2	Mafic and ultramafic metavolcanics dark green to black, grey, basalt, pillow breccia, flows
1	Felsic metavolcanics, buff to light green rhyolite-dacite, tuff
	Carbonatized Rock

CERTIFICATE

- I, Robert A. MacGregor, certify:
- 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

Date

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I hereby certify that I have a or witnessed same during and					of Work anne	xed hereto, l	naving performed the	work
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.A. MacGregor,	134 Palace	Dr. Sa	ult Ste.					
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Ministryof Natural Resources

Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.

Hit d522783 Instructions: - Please type or print.

- If number of mining claims traversed exceeds space on this form, attach a list.

Note: - Only days credits calculated in the (Geophysical, Geological, Geochemical and Expenditures)

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Type of Survey(s)				·	Township			
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R.A. MacGregor,	• •	Driva	CAIII.T	STE. MAR	TR. Ont			
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Report Completed			Recorded	Sept 24	1981	1 //	4	
Date of Report Sept. 21/81	orded Holder or Agent (Signature)	480	Date Approved		Regional	Branch Director	
Certification Verifying Repo	rt of Work		L			.1		
I hereby certify that I have a		nowledge of t	the facts set f	orth in the Report	of Work anne	xed hereto	having performed	the work
, contra that I have a	,							

1362 (81/2)

Name and Postal Address of Person Certifying

or witnessed same during and/or after its completion and the annexed report is true.

R.A. MacGregor, 134 Palace Dr. Sault Ste. Marie, Ont.

Sept. 21/81

OFFICE USE ONLY



Ministry of Natural Resources

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

ECEIVED SEP281981 G LANDS SECTION

File.

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)GGological		E S	אר אל 18
Township or Area Hearst			
Claim Holder(s) Superior Nort	hwest Inc.	MINING CLAIMS TRA	
Survey Company Colex Explor Author of Report R R.A. MacG Address of Author 134 Palace Dx Covering Dates of Survey Nov./80 (line Total Miles of Line Cut 17 miles)	culting to ortice)	L523348 L5233 L523350 L5233 L523352 L5450	(number) 49
ENTER 40 days (includes line cutting) for first survey. ENTER 20 days for each additional survey using same grid. G AIRBORNE CREDITS (Special provision cre Magnetometer Electromagnetic	Radiometric	L545049 L5456 L545051 L54566	54. Jurah
Res. Geol. Qualification Previous Surveys File No. Type Date	E: Machy Author of Report of Agent		
		TOTAL CLAIMS18	

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations	Number of Readings	
Station interval	Line spacing	
Profile scale		
Contour interval		
Instrument	To be a transfer of the second	4
Accuracy — Scale constant		
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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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Type of electrode		

INDUCED POLARIZATION

2:4/3

1983 01 20

2.4156

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

Dear Sir:

RE:

Geological Survey on Mining Claims L.522792 et al in the Township of Hearst

The Geological Survey assessment work credits as listed with my Notice of Intent dated October 29, 1982 have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours very truly.

E.F. Anderson
Director
Land Management Branch

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

A. Barr:sc

cc: Superior Northwest Inc Sault Ste. Maile, Ontario

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

cc: Resident Geologist, Kirkland Lake, Ontario



NOV DOW 21, 1982

Your file:

1982 10 29

Our file:

2.4156

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

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

Yours very truly,

E.F. Anderson
Director
Lands Administration Branch
Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

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

A. Barrisc

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

cc: Superior Northwest Inc Sault Ste Marie, Ontario

cc: Mr. G.H. Ferguson Mining & Lands Commissioner Toronto, Ontario 845 (6/79)



Notice of Intent for Technical Reports

1982 10 29

2.4156

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Lands Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.



Recorded Holder

Technical Assessment Work Credits

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2.4146

Township or Area	
HEARST	
Type of survey and number of	Mining Claims Assessed
Assessment days credit per claim	Willing Claims Assessed
Geophysical Electromagneticdays	L 522792
Magnetometer days	523348 to 51 Inclusive
Radiometric days	v
Induced polarization days	
Section 86 (18) days	
Geologicaldodays	
Geochemicaldays	
Man days ☐ Airborne ☐	
Special provision	
Credits have been reduced because of partial coverage of claims.	
Credits have been reduced because of corrections to work dates and figures of applicant.	
Special credits under section 86 (15a) for the following	mining claims
20 days L 522793 545051 545954	
No credits have been allowed for the following mining c	aims
not sufficiently covered by the survey	Insufficient technical data filed
The Mining Recorder may reduce the above credits if nece	essary in Order that the total number of approved assessment days recorded on

each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 86(18)-60:

1982 10 29

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

Dear Sir:

RE: Geological Survey submitted on Mining Claims
L 522792 et al in the Township of Hearst vin

The assessment work credits for Claims 522792-93 with respect to your notification dated July 28, 1981 have been dealt with. Those same claims appear on a motification dated September 24, 1981 and seem to be a duplication. Please delete the 40 days Geological credits from your record sheets and inform Mr. 2.4. MacGregor of this change.

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

A. Barrisc

Encls:

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



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AUG - 6 1981

Ministry of Natural Resources Notification of recording MINING LANDS SECTION

of assessment work credits

Recording Office 4 Gov't Road East KIRKLAND LAKE, Ontario P2N 1A2

Lands Administration Branch Mining Lands Section Ministry of Natural Resources Room 1617, Whitney Block Queen's Park, Toronto M7A 1W3

Date of recording of work: <u>JULY 28, 1981</u>	
Recorded holder: SUPERIOR NORTHWEST	INC
Address:P.O. Box 1110, SAU	LT STE. MARIE, Ontario P6A 5N7
Township or Area: HEARST TOWNSHIP	
Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical	
Electromagneticdays	L 522792 and L 522793
Magnetometerdays	·
Radiometricdays	
Induced polarizationdays	
Section 86 (18)days	evered on first not freating
Geological 40 days	covered on first not freating
Geochemicaldays	on the file
- Man days 🗌 💮 Airborne 🗀	¥
Special provision 🖳 Ground 🥋	
Notice to recorded holder:	- 0
Survey reports and maps in duplicate be submitted to the Lands Administration Branch, Toronto with in 60 days from the date of recording of this work	c.c. Superior Northwest Inc.
	c.c. R. A. MacGregor

Reports and maps are being forwarded to the Lands

Administration Branch with this letter.

134 Palace Drive

P6B 5H5

SAULT STE. MARIE, Ontario

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FILE:	L.	4156	

MINING LANDS COMMENTS:		
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GEOPHYSICS		
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GEOLOGY - EXPENDITURES 77 DATE: Oct 13/82	20 K	WISH TO SEE AGAIN WITH CORRECTION
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1981 09 29 2.4156

Mining Recorder's Office Ministry of Natural Resources P.O. Box 984 4 Government Road East Kirkland Lake, Ontarioo 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 522792 et al in the Township of Hearst.

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

Yours very truly

E.F. Anderenn Director Land Management Branch

Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 Phone 416/965-3380

Joan Skura

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

