1N15NW0050 0014A1 LENDRUM

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THE ALGOMA STEEL CORPORATION, LIMITED

EXPLORATION DEPARTMENT

RECTUTO

HH - 4 1981

MINING LAND _____

GEOPHYSICAL REPORT (VLF - EM-16)

ANOMALIES 6 & 6A (TREMBLEY AREA)
MICHIPICOTEN AREA
LENDRUM TOWNSHIP
SAULT STE. MARIE MINING DIVISION

J. E. GRAY
GEOLOGICAL TECHNICIAN
EXPLORATION

FEBRUARY 2, 1981

GEOPHYSICAL REPORT (VLF - EM-16)

ANOMALIES 6 & 6A (TREMBLEY AREA) MICHIPICOTEN AREA LENDRUM TOWNSHIP SAULT STE. MARIE MINING DIVISION

Location and Access

The claims are situated in the centre of Lendrum Township at the southeast corner of the Gros Cap Indian Reserve. The western boundary of the claim group coincides with the eastern limit of the surveyed Reserve line.

Access to the claim group is gained via the Trans-Canada Highway to a secondary gravel road about 3 km north of the entrance to the town of Wawa. The gravel road leads to Trembley Station on the A.C.R. railway, about 1 km from the highway. A blazed trail leads from here to the claim group, about 1 km distant.

Claim Status

The claims are held by The Algoma Steel Corporation, Limited. Staking was carried out in April, 1980. The group consists of 8 claims, SSM 542608 to SSM542615 inclusive.

Reason For Survey

The survey was carried out to investigate an airborne anomalous area outlined in February, 1980.

Previous Work Done

No evidence of previous trenching, diamond drilling or line cutting was recorded when the survey was carried out.

Topography

The claims are located in rough, hilly terrain. Streams and swamps are very much in evidence throughout this surveyed area. Steep rock faces, high falls and cliffs are predominate throughout the claim group.

Results of Survey

Several parallel anomalies having a strike length of approximately 4,000 feet are located south of the base line. Additional anomalous zones are located north of the base line.

Results of Survey (Contd.)

(i) Southern Anomalies

Zone 1

Located approximately 2+50S of the base line and having a strike length of 4000 feet.

Zone 2

Located approximately 300 feet south of the base line and having a strike length of 4,000 feet.

Zone 3

Located approximately 800 feet south of the base line and having a strike length of 2,800 feet.

Smaller anomalous areas are located approximately 1,800 feet south of the base line on cross sections 8+00E - 20+00E. Overall strike length of these zones is approximately 1,200 feet.

(ii) Northern Anomalies

One major occurrence is located approximately 1,500 feet north of the base line on cross sections 16+00E - 36+00E. Overall strike length is 2,000 feet.

A second anomalous zone is located approximately 21+50S on cross sections 12+00E - 32+00E. Overall strike length is 2,000 feet.

This zone is believed to be caused by hydro line interference as a high power line is located in this vicinity on all cross sections mentioned.

Method of Survey

A line grid was laid out (see accompanying plans). The grid totalled approximately 11.34 line miles of cross sectional tie lines and base lines. Cross sectional lines were turned off a base line at 90°. Line spacings were at 100 foot intervals. Chainage pickets were established at 100 foot intervals. VLF readings were taken at 100 foot intervals along the cross lines.

Type of Instrument Used

VLF EM16 electromagnetic unit.

Survey Dates

August 9, 10 17 and 31, 1980.

I certify the information contained in this report is true and correct.

J. E. Gray, Geological Technician.

February 2, 1981

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Ministry of Natural Resources



TOTAL CLAIMS_____8

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

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

GEOPHYSICAL TECHNICAL DATA

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

	ımber of Stations	511	Number of Readings _	511
Sta	ation interval	100 feet	Line spacing	400 feet
Pr	ofile scale1" = :	20 ⁰		
	Instrument			
COE	Accuracy - Scale cons	tant		
	Diurnal correction met	hod		
	Base Station check-in is	nterval (hours)		
	Base Station location a	nd value		
Ŋ	InstrumentG	eonics E.M.16		
E	Coil configuration			
VS	Coil separation			
/WC	Accuracy			
TR		☐ Fixed transmitter		ne 🗀 Parallel line
ELECTROMAGNETIC	Frequency Cutle	er Maine 15 - 25 K 1	HZ pecify V.L.F. station)	
ii)	Parameters measured_	(1) The vertical in	phase component	
				polarization ellipsoid
	Instrument	(2) The vertical ou	t of phase (quadratu	re) component
	Scale constant			ellipsoid compared
7	Corrections made	to the long ax		
RAVITY				
3	Base station value and	location		
	Elevation accuracy			
	Instrument			
4	Method Time Do	omain	Frequency Do	omain
3	Parameters - On time		Frequency	
4 ×	- Off time		Range	
NUCCER PUBLICATION RESISTIVITY	– Delay tii	me		
	– Integrati	ion time		
	Power			
	Electrode array			
	•			
-	Type of electrode			

FIELD FORK			Number of
Type of Work	Name & Address	Dates Worked	8 hour days
			11

•			
****	,		
CONSULTANTS		•	Number of
Name & Address	Dates Worked (speci	fy in field or office)	8 hour days

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`. 		-	[]
DRAUGHTSHAN, TYP	ING, OTHERS (specify)		
			Number of
Name & Address	Type of Work	Dates Worked	8 hour days
			-[]
			-
*********			_
		TOTAL 8 HOUR TECHNICAL DAYS	
LINE-CUTTING	•		
Name	Address	Dates Worked	Number of
		12, 13, 15, 16, 19 & 21, 1980	8 hour com
	Little Current,		
	Ontario.		
S. Trudeau	St. Joseph's Island,	June 12, 13, 15,16,19 & 21, 1980	
	Ontario		-
M. Andre	Michipicoten Habour, Ontario.	June 9, 15, 16, 19 & 21, 1980	6
***************************************	Ontario.		
	•	TOTAL S HOUR LINE-CUTTING PAYS	2 1 8

ASSESSMENT WORK EREMNOORN

Type of Work	Name & Address	Dates Forked	Number of 8 hour days
		·	

••••••			
Name & Address	Dates Worked (speci	fy in field or office)	Number of 8 hour days
			[
1.	•		
. DRAUGHTSMAN, TYPING	G, OTHERS (specify)		
Name & Address	Type of Work	Dates Worked	Number of 8 hour days
		TOTAL 8 HOUR TECHNICA	AL DAYS
LINE-CUTTING	•		
Name	Address	Dates Worked	Number of 8 hour cay
A. E. Fournier		June_9,_10,_11,_12,_13	1.14
:			7
R. Oja	326_Albert_StW_, Sault Ste. Marie.	Juna 12, 13, 15, 19 &	.215
	-	TOTAL 8 HOUR LINE-COUTH	



Your file:

1982 07 26

Our file:

2.3710

Mining Recorder
Ministry of Natural Resources
75 Elgin Street
Box 669
Sault Ste. Marie, Ontario
P6A 5N2

Dear Sir:

RE: Geophysical (Electromagnetic) Survey on Mining Claims SSM 542608 et al in the Township of Lendrum

The Geophysical (Electromagnetic) Survey assessment work credits as listed with my Notice of Intent dated May 5, 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

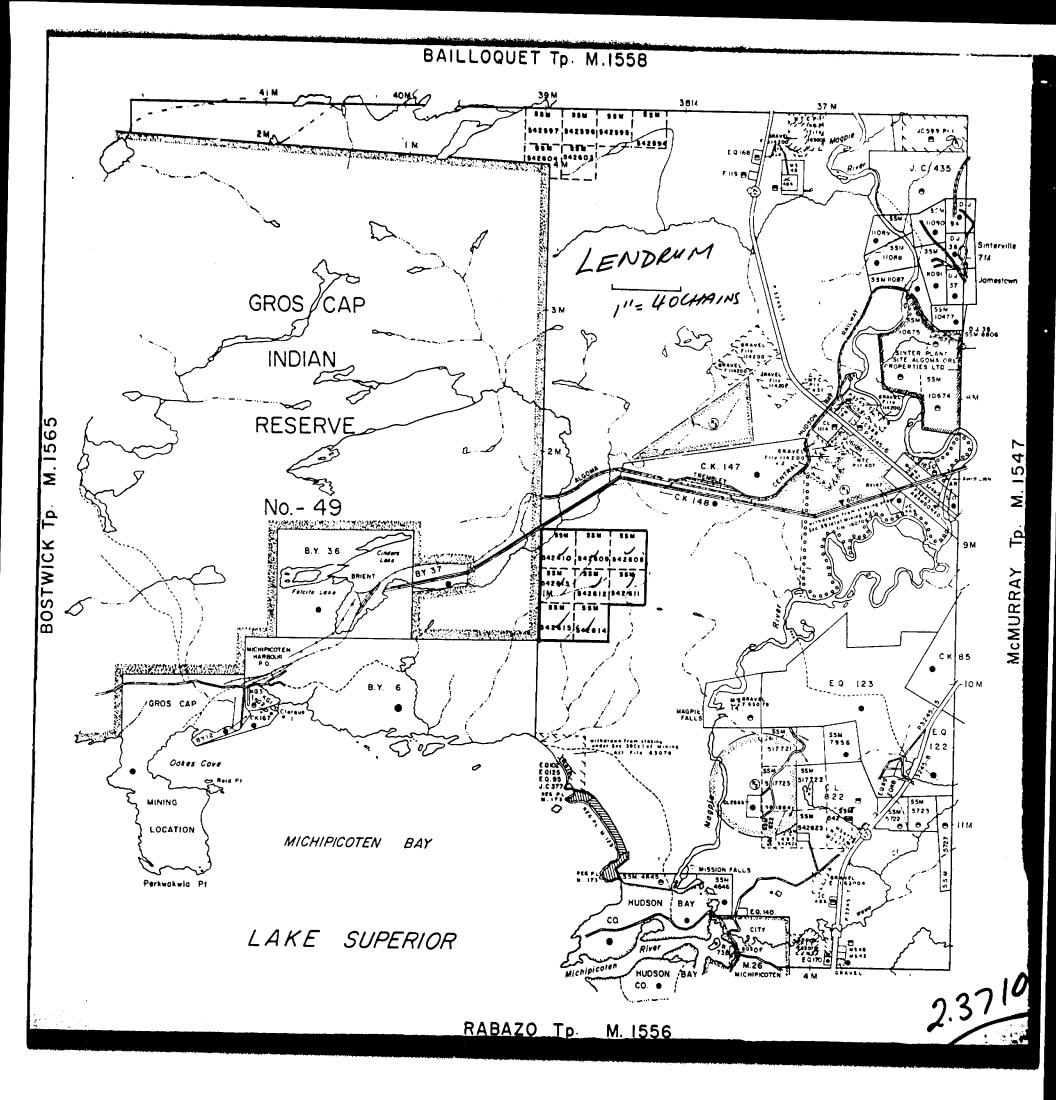
Land Management Branch

Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 Phone: 416/965-1316

A. Barr/sc

cc: Algoma Steel Corporation Sault Ste. Marie, Ontario Attn: Mr. John E. Gray

cc:√Resident Geologist
Sault Ste. Marie, Ontario



SEE	ACCOMPANYIN	G
MAP (5)	IDENTIFIED	AS
	ENDRUM- 0014-A)	/,#/

LOCATED IN THE MAP CHANNEL IN THE FOLLOWING SEQUENCE (X)

