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REPORT ON THE ELECTROMAGNETIC SURVEY AT MICHIPICOTEN ISLAND LAKE SUPERIOR, ONTARIO

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RESIDENT GEOLOGIST:

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NUCOM LIMITED

THE OFFICE OF THE RESIDENT

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REPORT ON THE ELECTROMAGNETIC SURVEY. 40× AT MICHIPICOTEN ISLAND LAKE SUPERIOR, ONTARIO

I. Introduction

SEOLOGET. C. T. CEPT. OF WINNES A dual frequency EM survey was completed during August and Saptember 1955 on 13 miles of line within the Amoo optioned group of claims on the western end of Michipicoten Island.

The surveying was performed on three grids laid out to cover the vicinities of two conglomerate-agglomerate beds. The purpose of the survey was to trace the conglomerate-agglomerate beds either by virtue of contained native copper or by virtue of other conductive material within the beds. An earlier trial survey had indicated that conductors coincided with the conglomerate-agglomerate beds at two isolated locations.

2. Presentation of Results

The EM data are presented in profile form on a series of $1^{m} = 200^{1}$ scale maps. (DWGS E 4059 - 1, 2 and 3).

A sketch (DWG K 1098) showing the grid layout also is enclosed. The three grids employed for the survey have been labelled GRID 1, GRID 2, and GRID 3 on this sketch.

Discussion of Results

The northernmost conglomerate-agglomerate band appears to be represented by Zone A, which trends throughout Grids 1 and 2. This conductive some passes through or closely adjacent to several pits and shafts. The writer visited the

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property on September 1st and 2nd and while there, studied the surface in the vicinities of the conductors on Grid 1. No obvious cause of the conductors was found, but it is believed that they are due to ionized solutions in porcus phases of the conglomerateagglomerate. This relatively high porosity may be due to shearing or vesicularity. However, the possibility that native copper is at least part of the cause of the conductors cannot be ruled out. No evidence of graphitic or carbonaceous material was observed.

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Beyond line 32+00N to the north, the pattern of conductors becomes indefinite. The topography suggests that some faulting has occurred in this area and perhaps this has led to offsetting of the northernmost conglomerate-agglomerate band. The conductors are of generally poor conductivity throughout the length of the zone.

It appears that a second horizon is serving as a conductor on Grid 1, north of line 32+00N. This some has been labelled Zone B and is of very poor conductivity.

Zone C closely follows a steep escarpment for most of it's length. No evidence of mineralisation could be seen in any of the rocks exposed along the escarpment, and hence, the most likely cause of this conductor seems to be a fault or shear zone. This zone is of moderate conductivity throughout.

It seems possible that somes B and C are related and that they might represent the southernmost conglomerate-agglomerate band. High-weathering basic rocks are exposed at the escarpment and these rocks may be the basic eruptives mapped along the south-

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ern contact of the southernmost conglomerate-agglomerate band. Existing topographic maps are inadequate and hence correlation of the mapped geology with Zone C is made difficult.

No conductors were found on Grid 3, which covers the western end of the southern conglomerate-agglomerate band. This suggests that the porosity of this band is not sufficiently high here to permit sufficient ionised solution to enter and form a continuous conductor.

4. Conclusions and Recommendations

The major conglomerate-agglomerate horison has been traced across the property. Several drill holes are recommended to test this band as follows:

GRID	D.D.H	Location	Dip	Asimuth	Depth
# 1	# 1	2+758x36+00N	45°	300°	2501
	# 2	1+00Wx32+00N	45°	300 °	300 '
	# 3	5+50#x20+00N	45°	300°	2001
	# 4	5+75Wx12+00N	45°	300°	2001
# 2	# 5	1+00Nx12+00W	45°	320 ⁰	150'
	# 6	4+005x20+00W	45°	320 °	175'
	# 7	5+508x28+00W	45°	320°	2001
	# 8	10+00\$x36+00W	45°	320°	175'

In addition two holes have been spotted to determine the cause of the conductors adjacent to the escarpment; these are:

GRID	D.D.H.	Location	Dip	Asimuth	Depth
# 1	# 9	8+00Bx12+00N	45 ⁰	300 ⁰	2001
	# 10	8+50Ex 0+00	45°	300°	175 .

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The above proposed drilling program may need adjustment, particularly with respect to depth of hole, as may be evidenced by the results of the first few holes. An additional hole which might be drilled is:

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D.D.H. # 11, located at 2+50Wx52+00N, dipping 45° at an azimuth of 300° and extending to a depth of 200 feet.

NOT TO BE REMOVED FROM THE OFFICE OF THE RESIDENT GEOLOGILY: ONT. DEVY. OF MINES SAULT STEL MARKE, ONT.

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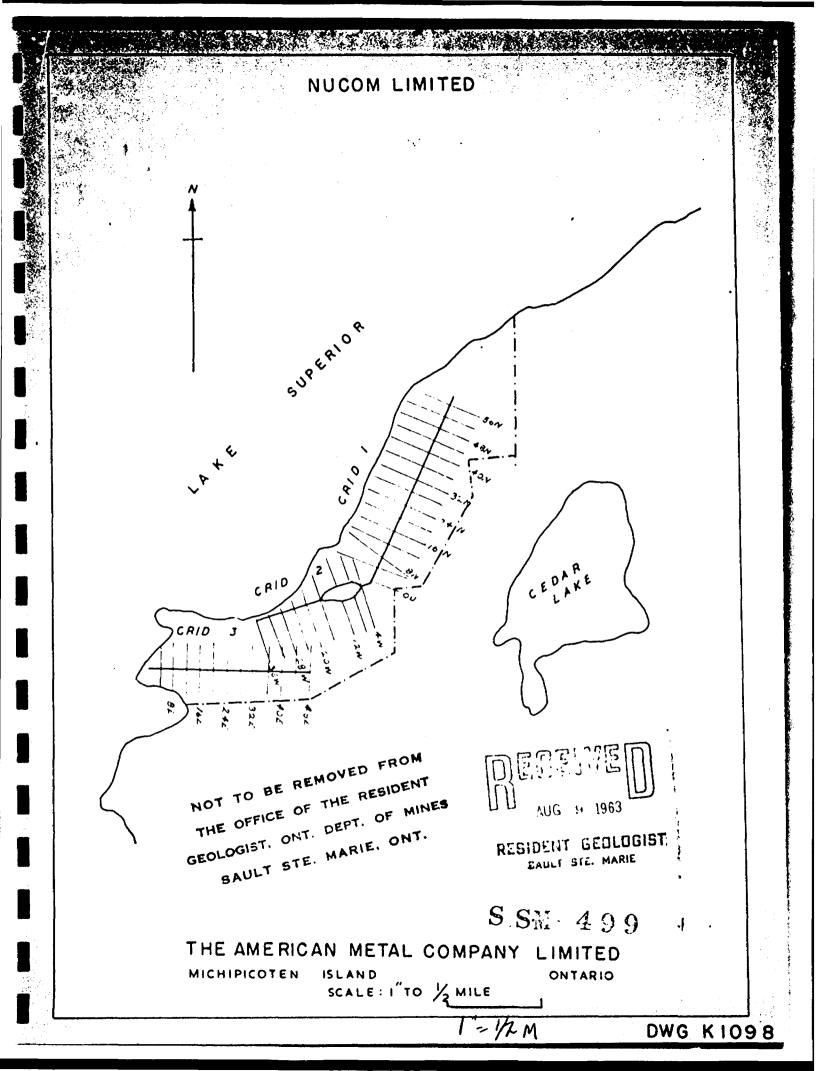
NUCON LIMITED

S H Ward

Dated: October 14, 1955

Copies to:

New York Toronto (2) File (2)



STATEMENT OF TIME AND PERSONNEL ENGAGED . RE EM SURVEY MICHIPICOTEN ISLAND CLAIMS

COVERING 22 MINING CLAINS NOS. SSN 42747-56, 43177-86, 43188-89

1. FIELD TECHNICIAN

Nayne Latta, Chief, Tweed, Ontario	Sept. 1=23/55 Aug. 10=31/55 July 12=19/55	23 days 22 # _8 #
Total	Man Days -	53 days
2. DRAUCHTING		
Ronald Watson, 153 Parkmount Rd., Toronto 6, Ont.	July 29/55 Oct. 7/55 Oct. 8/55 Oct. 11/55 Oct. 12/55 Oct. 13/55	1/2 day 1 " 1 hour 1/2 day 1 " 1 "
Total	Man Days -	4 1/8 days
John Gardner, 23 Elvina Gardens, Toronto, Ont. Total	Oct. 8-9/55 Man Days - Draughting -	1 3/8 " 5 1/2 days
3. CONSULTANTS		
Dr. S.H. Ward, 7 Staghill Drive, Toronto 16, Ont.	Sept. 1-3/55 Sept. 6/55 Oct. 29-31/55	3 days 1/2 day 2 1/2 days
Total	Man Days -	6 days
Herbert Harvey, 28 McCowans Rd., Toronto, Ont.	July 11-12/55	2 days
•	Man Days - Consulting -	8 days

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STATEMENT OF TIME AND PERSONNEL ENGAGED - RE EN SURVEY - MICHIPICOTEN ISLAND CLAINS

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E. G. Dean, Supervisor, 56 Chaplin Cr., Toronto, Ont.	August 19 - Sept. 22/55	35 d ays
Emile Leveille, Lac Aux Sables, Quebec	August 19 * Sept. 22/55	35 days
Harvey Hampel, Port Loring, Ont.	August 19 -Sept. 22/55	35 days
Vernon Hampel, Port Loring, Ont.	August 19 - Sept. 22/55	35 days
Willis Hutchins, Loring, Ont.	August 19 - Sept. 22/55	35 days
John Quesnell, Sault Ste.Marie, Ont.	August 19 - Sept. 22/55	35 days
Total Man	Days - Line Cutters -	210 days

BREAKDOWN OF WORK CREDITS

	TOTAL ALLOWABLE WORK CREDITS -	376	days
4. MINE COLLEND,	- Maximum Time Allowable - 5 x 22 claims	110	Ħ
4. LINE CUTTERS,	• •	32	Ħ
3. CONSULTANTS	- 8 Man Days x 4	22	
2. DRAUCHTING	- 5 1/2 Man Days x 4		days
1. FIELD TECHNICIAN	- 53 Man Days x 4	21.2	d

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DEPARTMENT OF MINES

PARLIAMENT BUILDINGS TORONTO 2. ONTARIO

Ker P

December 12th, 1956.

Dear Sir:

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Herewith for your records is a geophysical survey filed by the American Metal Company Limited covering 22 mining claims on Michipicoten Island.

Yours_very-truly,

k. V. Scott, Chief, Mining Lands Branch.

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RESIDENT CLULUGIST	RUSIDENT CEDEDBIST

Mr. E. G. Pye, Resident Geologist, Court House, PORT ARTHUR, Ont. c.c. Dr. M. E. Hurst, Provincial Geologist, Department of Mines, BUILDINGS.

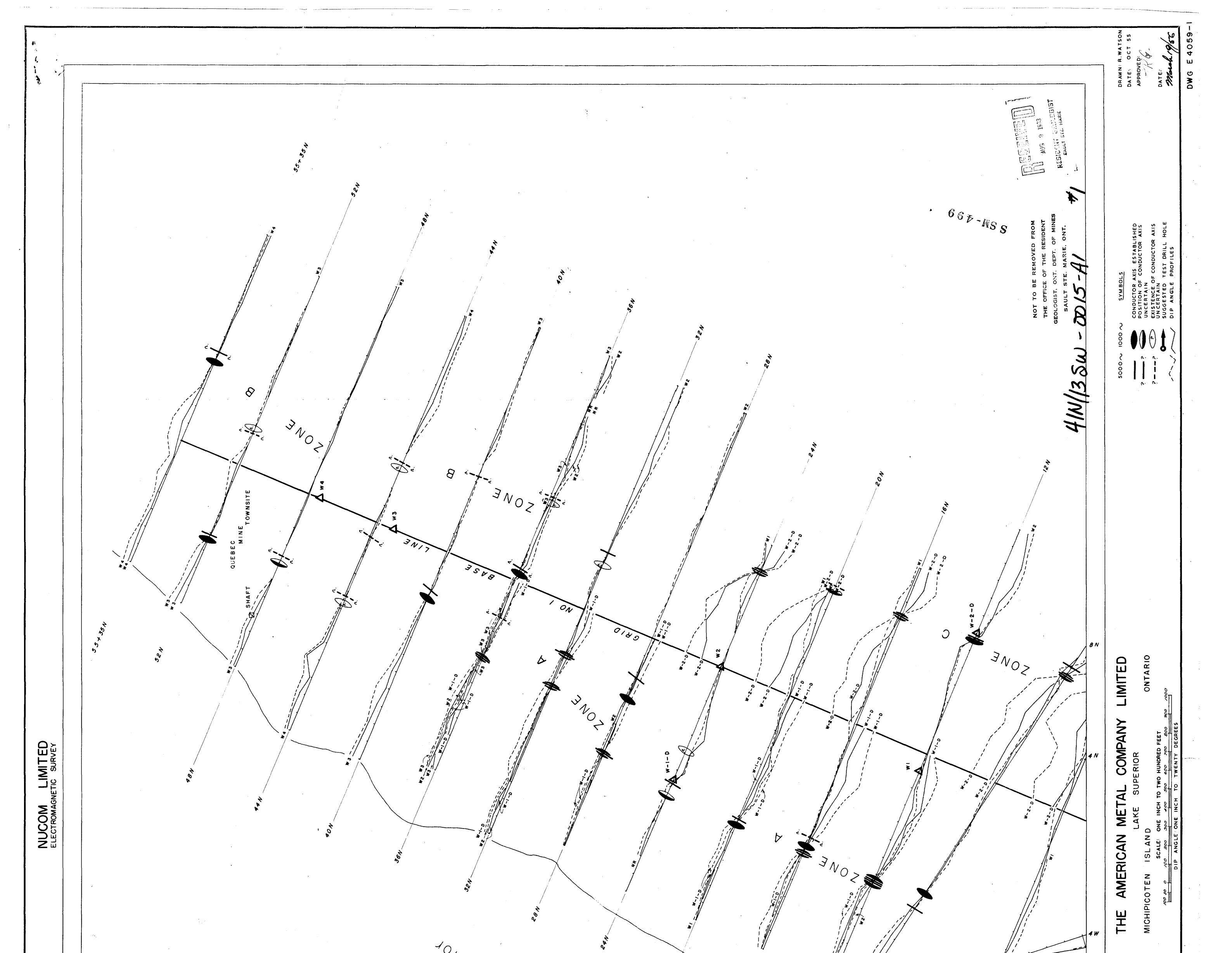
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FOR ADDITIONAL INFORMATION SEE MAPS: 4/N/13 SW-0015-A1 # 1 2 34

FOR DUPLICATE OF MAP 4IN/135W-0015-AI #4

SEE MAP

4/N/12NW-DD10-A1 #1

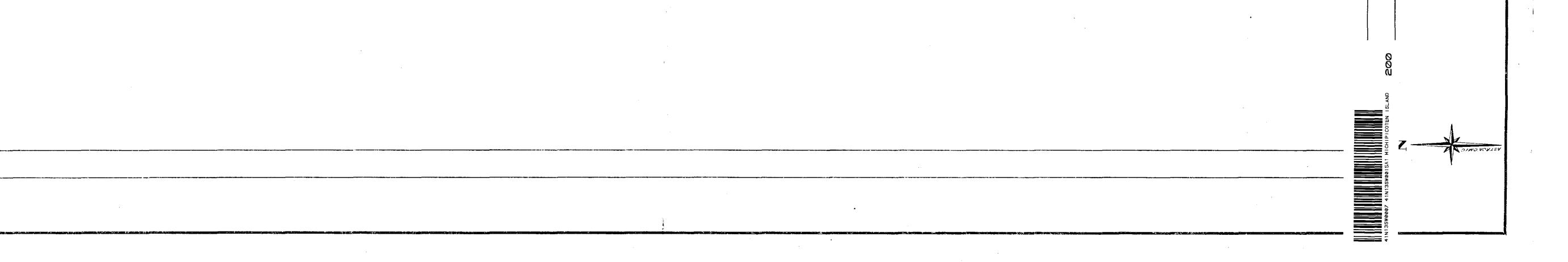


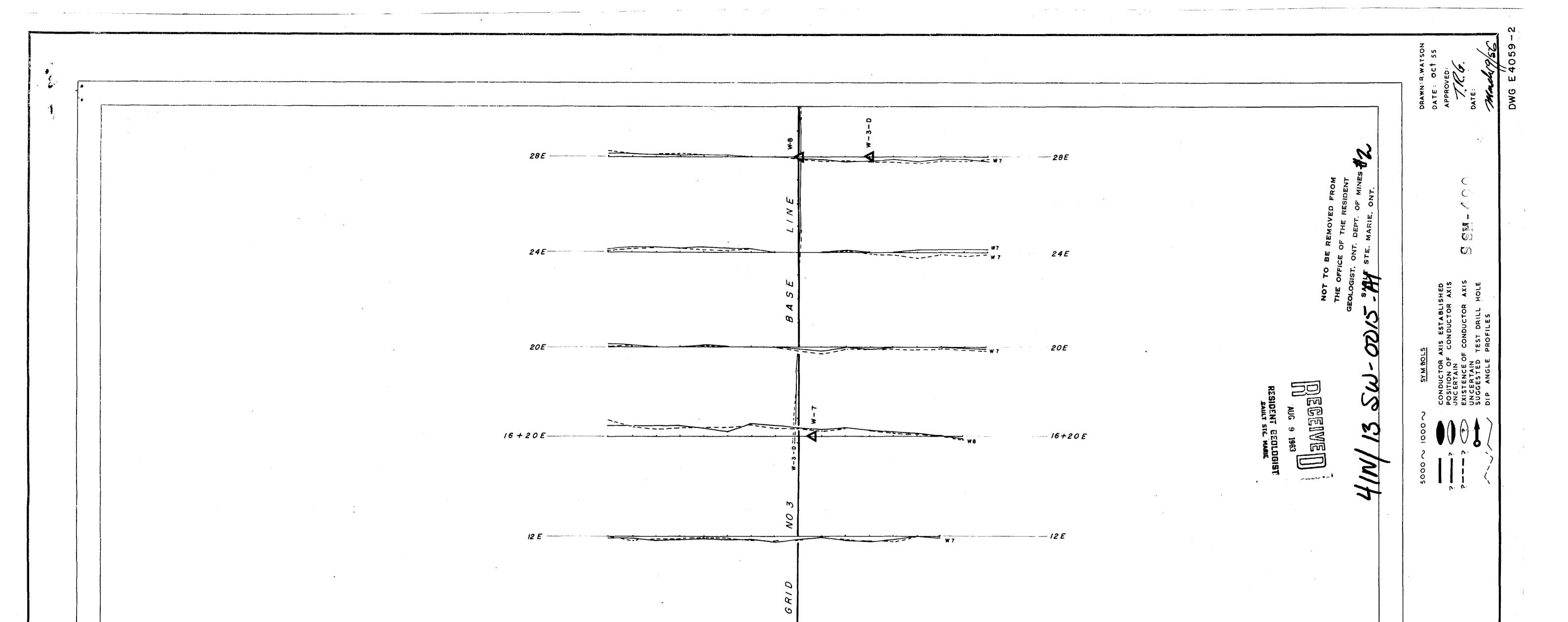
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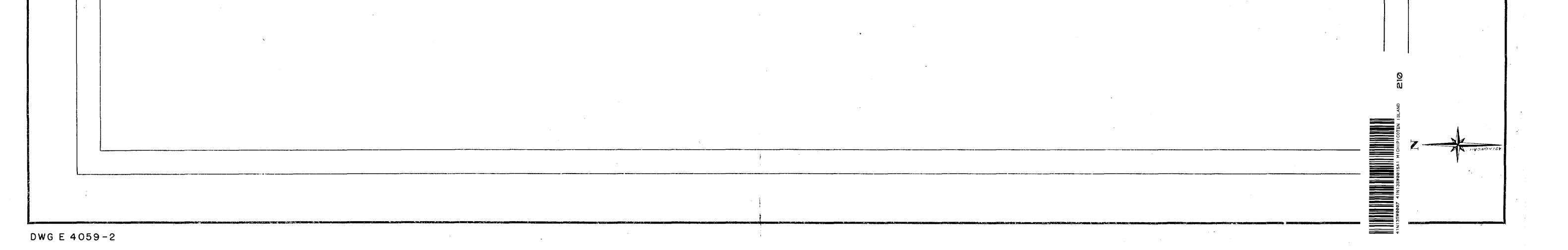
LIMITED

METAL COMPANY LAKE SUPERIOR

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LEGEND TRANSMITTER LOCATION RECEIVER TRAVERSE AND PROFILES NOTE LOCATION OF CORRESPONDING TRANSMITTER IS INDICATED AT THE END OF EACH PROFILE



	DATE: OCT 55 APPROVED: APPROVED: DATE: DAT
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