



41P12SW0023 2.445 BENNEWEISS

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Report on  
Induced Polarization Survey  
Benneweiss Township, Ontario  
for  
Safari Explorations Limited

SUMMARY

A group of nine unpatented claims are located in the northwest corner of Benneweiss Township, Sudbury Mining Division, Ontario. An Induced Polarisation survey was started in December and after a break was completed a few weeks ago. The purpose of the survey was to explore for disseminated and shear zone deposits of copper related to intrusive granites. One anomalous zone was located in Benneweiss Lake.

It is recommended that the Lake Anomaly be diamond drilled while the ice is still on the lake. Mapping would not aid in evaluating such a zone.

*Tom Gledhill*



Report on  
Induced Polarization Survey  
Benneweiss Township, Ontario  
for  
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I. INTRODUCTION

A group of nine claims are located in the northwest corner of Benneweiss Township, Sudbury Mining Division, Ontario. The discovery of several copper zones in granitic rocks has led to the re-examination of these intrusives as a source of base metal. An Induced Polarization survey was carried out on the group in order to locate possible disseminated or shear-zone deposits of copper.

II. PROPERTY, LOCATION AND ACCESS

The property is located in the northwest corner of Benneweiss Township, Sudbury Mining Division, Ontario. It lies on the northeastern end of Benneweiss Lake. This lake is less than 1/2 mile from the new Highway 560 to Gowgama. Access is also good by bush aircraft to Benneweiss Lake.

The property comprises 9 contiguous unpatented mining claims:

S 285151 to -59 (9 claims)

### III. GENERAL GEOLOGY

The rocks are generally large areas mapped as Algonian granites and associated intrusives with narrow bands of Keewatin volcanics and sediments and Timiskaming sediments. The whole area has been intruded by late Matachewan diabase dykes.

### IV. HISTORY

The area was explored over the last sixty years for gold and minor occurrences were found. The granites recently have been re-examined and areas of copper mineralization were found. These are usually in shear zones and dissemination in the granites and nearby volcanics and sediments.

### V. INDUCED POLARIZATION SURVEY

A north-south grid with lines spaced at 400 foot intervals, east-west, was surveyed using 300 foot separations and taking three dipole readings from each transmitter dipole.

The three anomalous zones that are marked over the lake on lines 12W, 16W and 20W appear shallow. These form the Lake Anomaly.

VI. CONCLUSIONS AND RECOMMENDATIONS

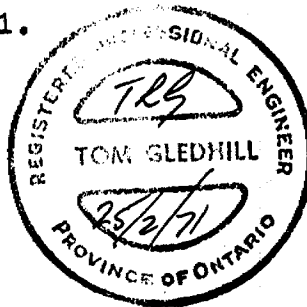
Although the property was to be mapped this coming summer, the Lake Anomaly cannot be further assessed from mapping. The anomaly appears from a shallow source.

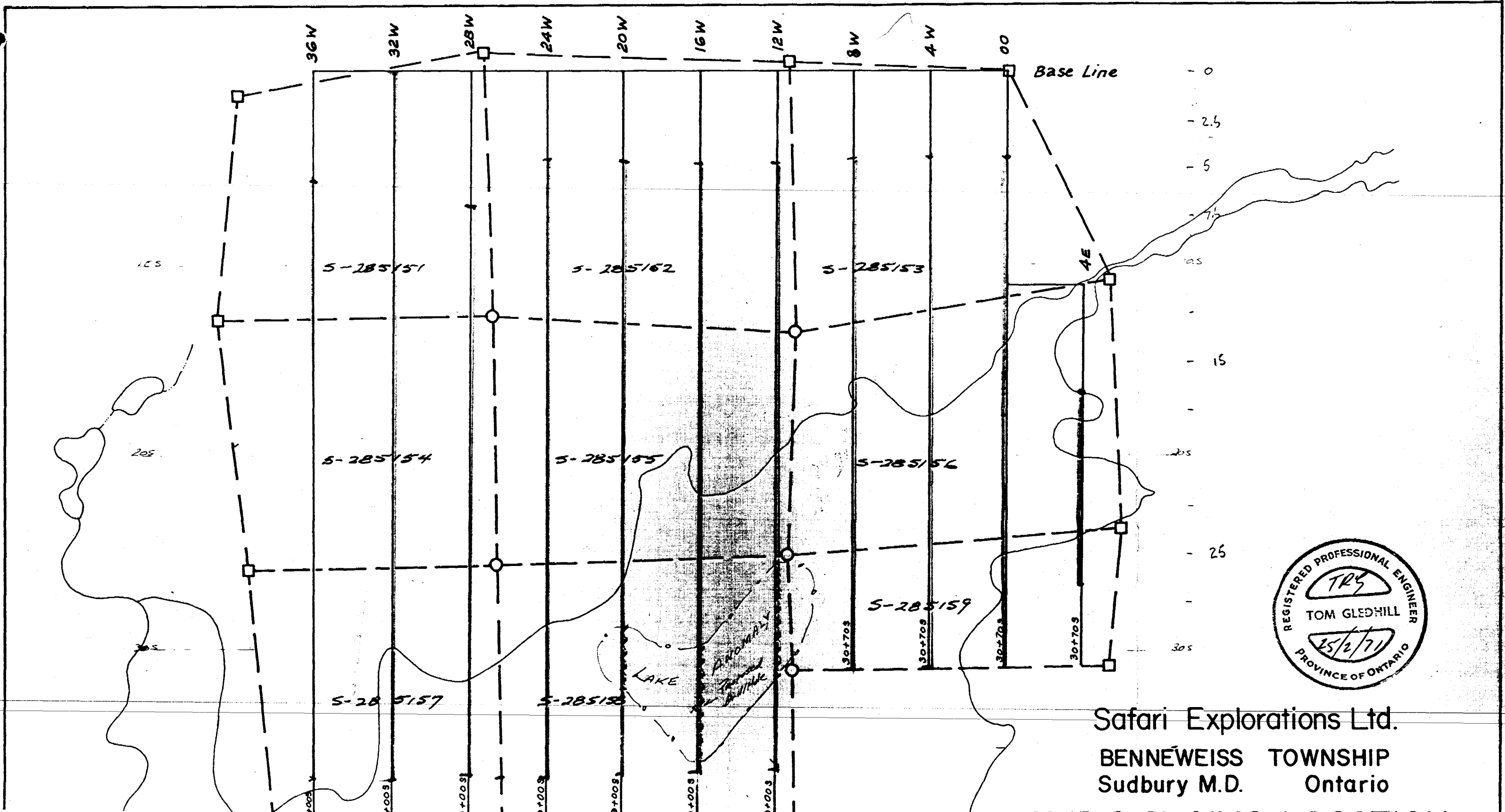
It is recommended that a single hole on line 16W be drilled to test the Lake Anomaly.

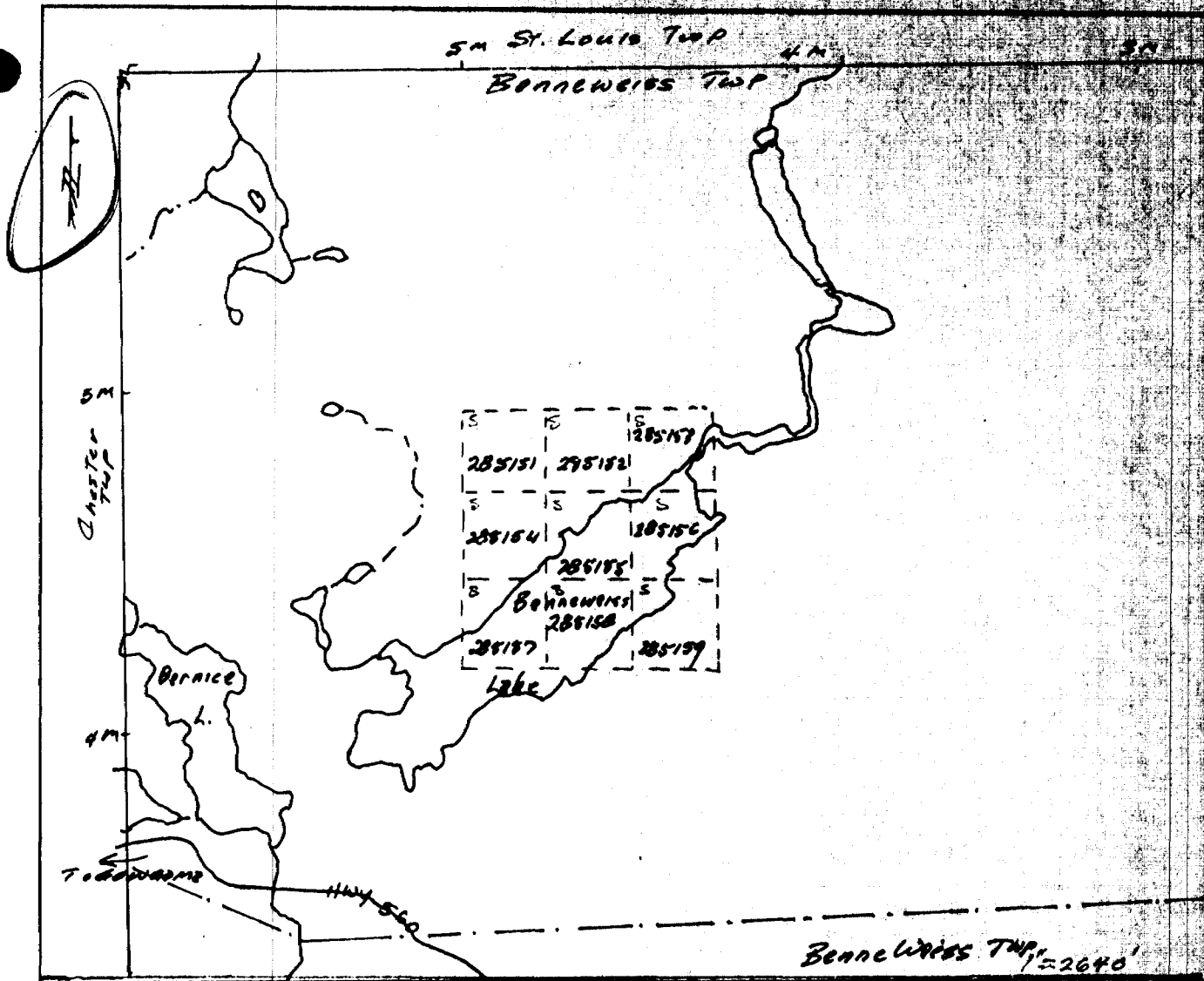
Respectfully submitted,

*Tom Gledhill*  
Tom Gledhill, B.A., P.Eng.

February 25, 1971.

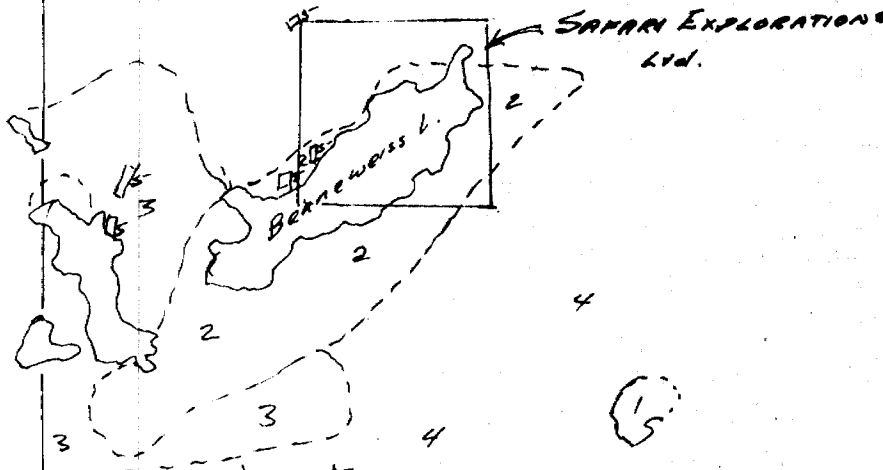






**SARAFY EXPLORATIONS LIMITED**  
 TYPE OF SURVEY: CLAIM & LOCATION  
 AREA: GOWANA AREA  
 LOCATION: BONNEWICK TWP

DRAWN BY: TRG	SCALE: _____	DATE: 16/10/70
TRACED BY:	MAP No. _____ NTS REF. _____	REVISED
TO ACCOMPANY: <u>Comm. Report</u>		DATE: <u>16/10/70</u>
BY: <u>TRG</u>		



- 115
 Precambrian  
 Matachewan  
 diabase dykes
- 4
 ALGOMAN  
 Granite
- 3
 Pro. ALGOMAN  
 Porphyry, Quartz + Diorite
- 2
 TIMISKAMING  
 SEDIMENTS
- 1
 KEEWATIN  
 Volcanics

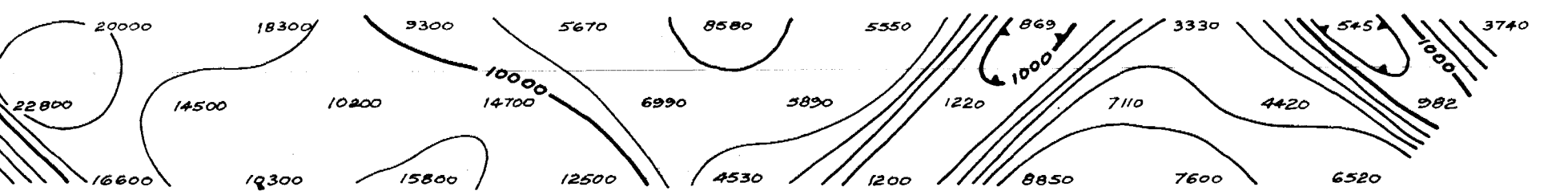
after ODM Map 41d 1" = 3/4 mile



<b>SAFARI EXPLORATIONS Ltd</b>		
TYPE OF SURVEY: <i>Geology</i>		
AREA: <i>Barronville Twp. Sudbury</i>		
LOCATION: <i>GOVERNMENT AREA</i>		
DRAWN BY:	SCALE: <i>1" = 3960'</i>	DATE: <i>16/10/70</i>
TRACED BY: <i>ERG</i>	MAP No. _____ NTS REF. _____	REVISED
TO ACCOMPANY	<i>Cum gratia Report</i>	
BY: <i>TRG</i>	DATE: <i>16/10/70</i>	



309      245      185      125      65      00



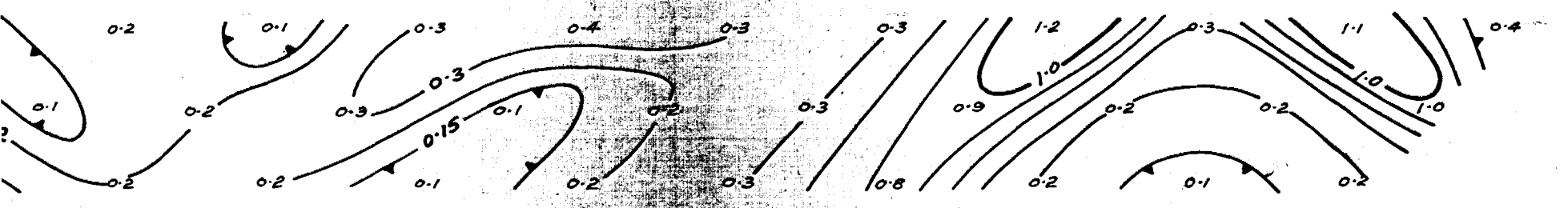
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- ← n = 2
- ← n = 3
- ← n = 4

Apparent Resistivity  
(ohm feet)

**INDUCED POLARIZATION  
AND  
RESISTIVITY SURVEY  
for  
SAFARI EXPLORATIONS LTD.**

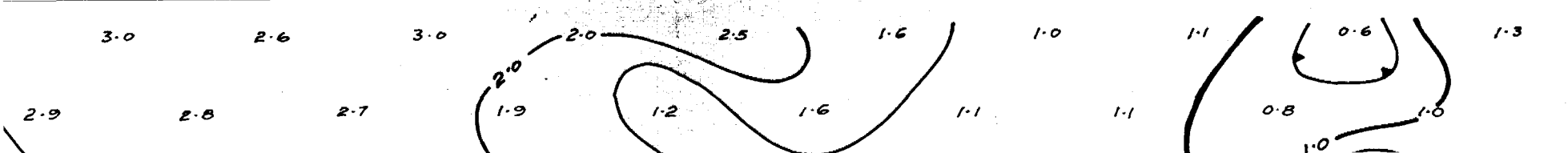
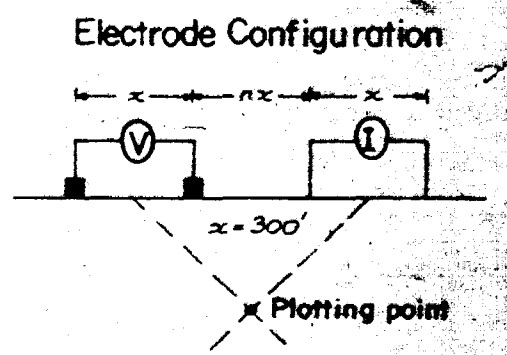
**BENNEWEISS TOWNSHIP  
Sudbury M.D. Ontario**

LINE NO. 32W



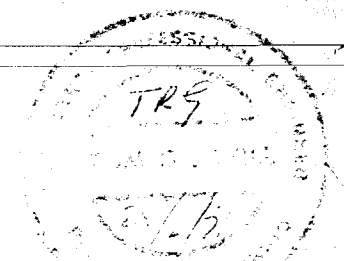
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- ← n = 3
- ← n = 4

Metal Factor



- ← n = 1
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Polarization Effect (%)



LINE NO. 32W



245

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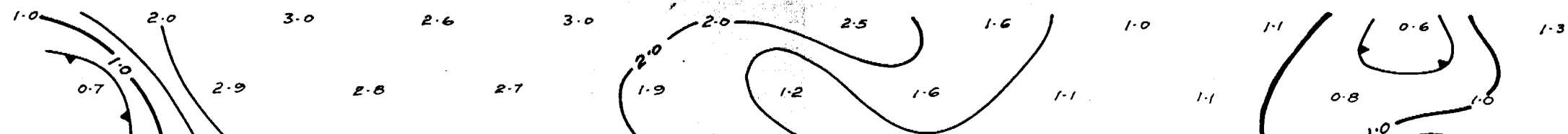
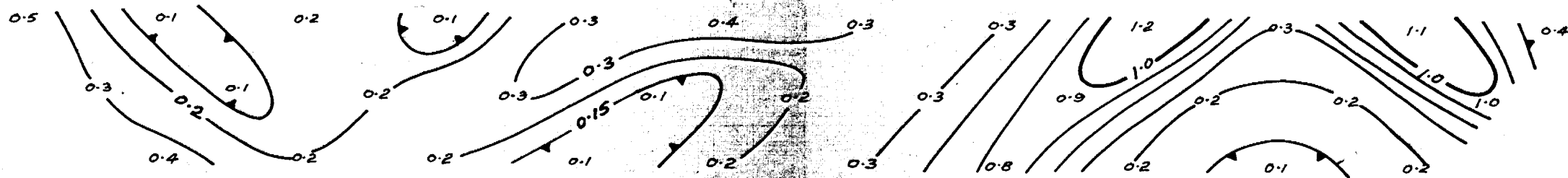
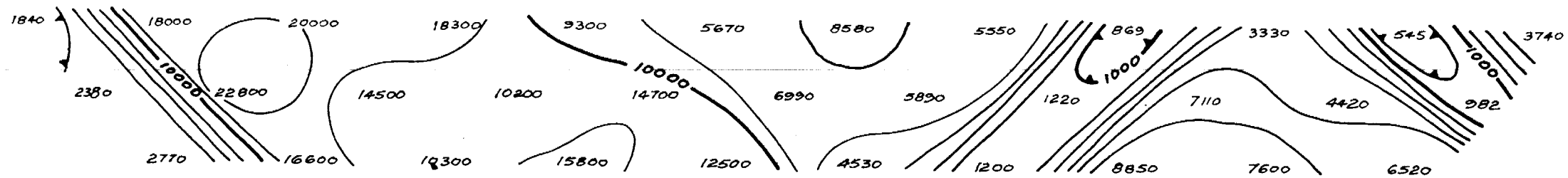
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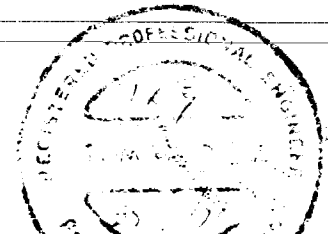
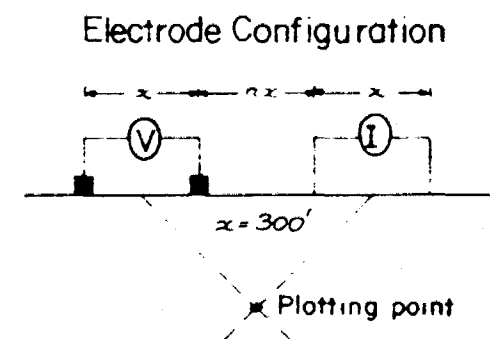
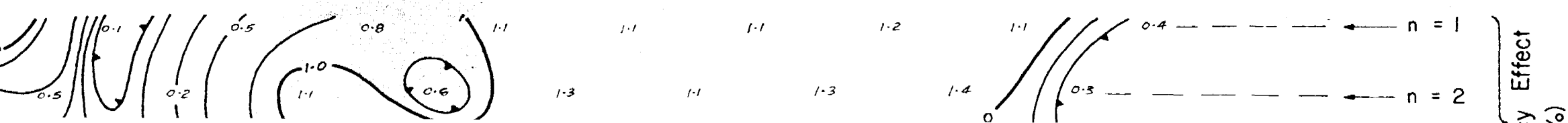
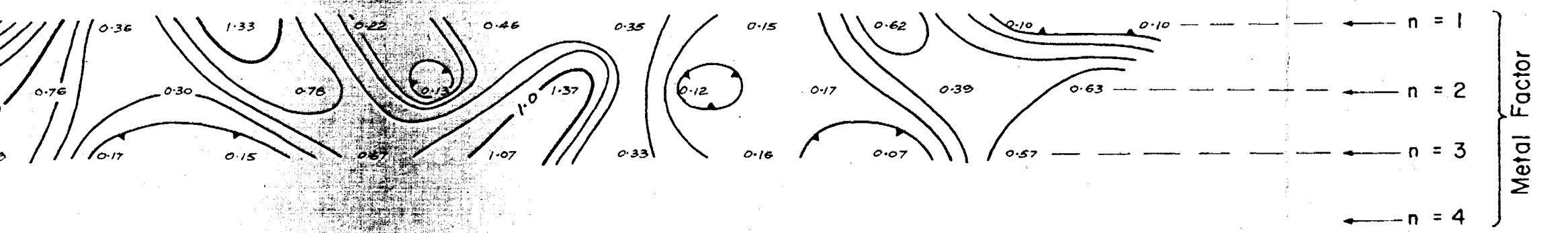
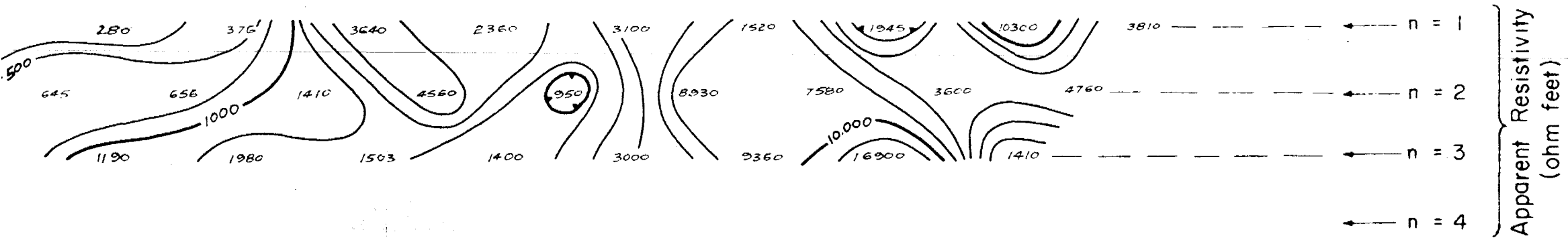
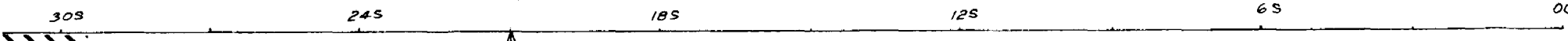
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INDUCED POLARIZATION AND RESISTIVITY SURVEY for SAFARI EXPLORATIONS LTD.

BENNEWEISS TOWNSHIP  
Sudbury M.D. Ontario

LINE NO. 16W



LINE NO. 16W

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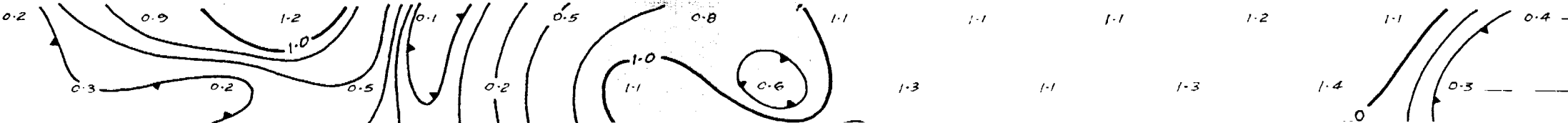
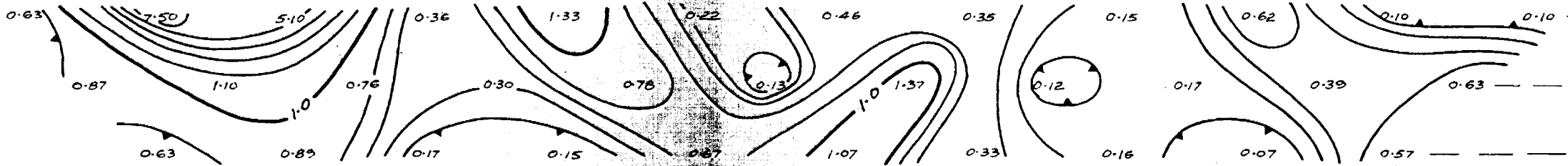
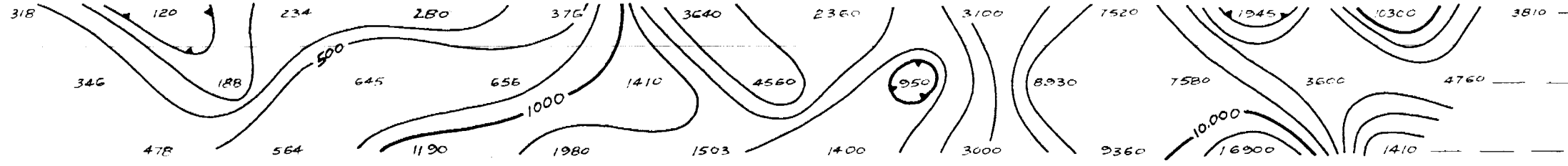
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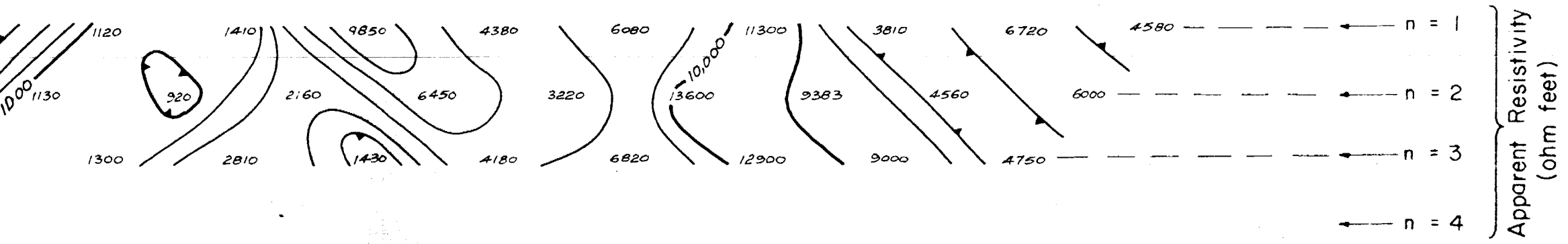
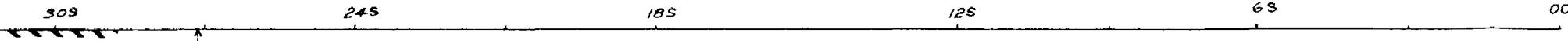
185

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Lake

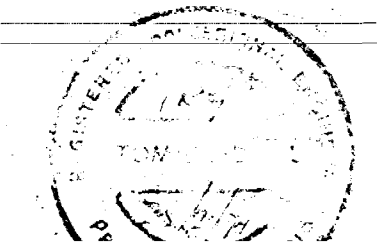
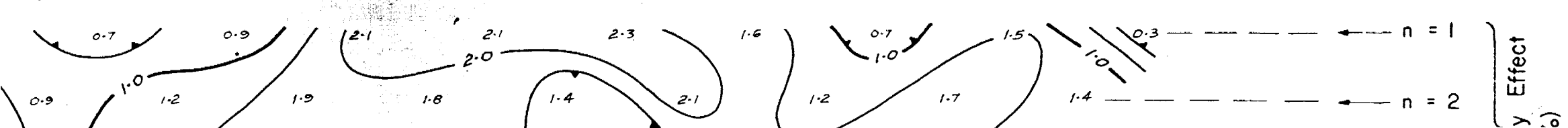
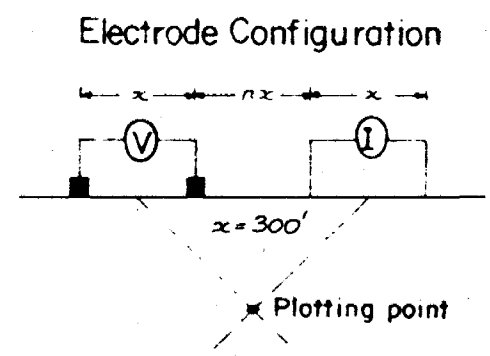
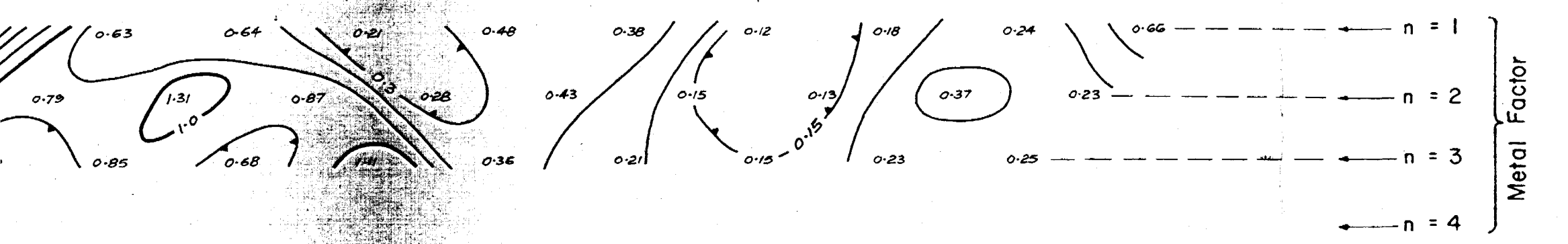




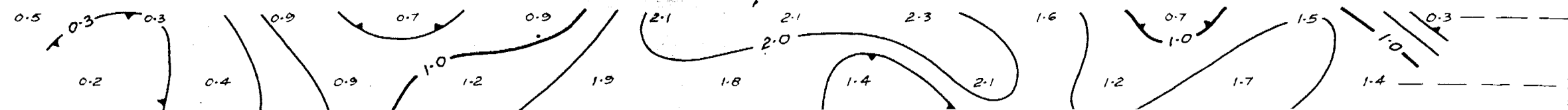
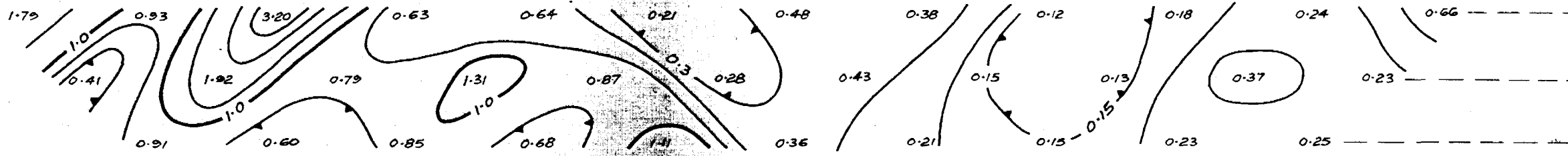
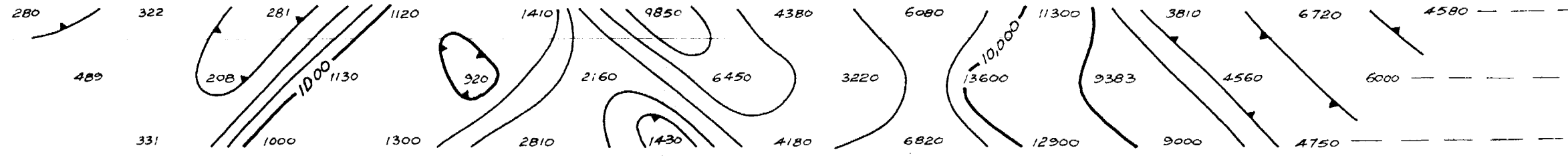
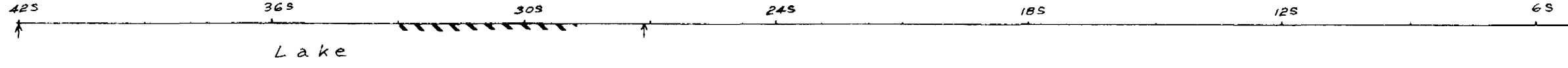
INDUCED POLARIZATION  
AND  
RESISTIVITY SURVEY  
for  
SAFARI EXPLORATIONS LTD.

BENNEWEISS TOWNSHIP  
Sudbury M.D. Ontario

LINE NO. 20W



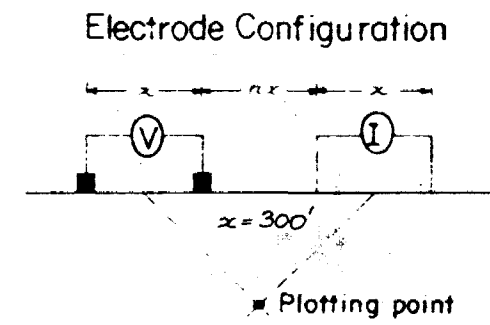
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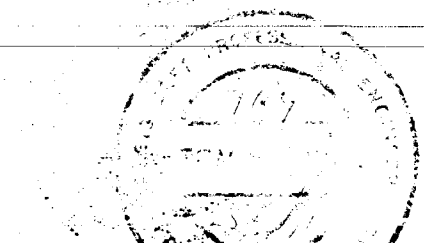
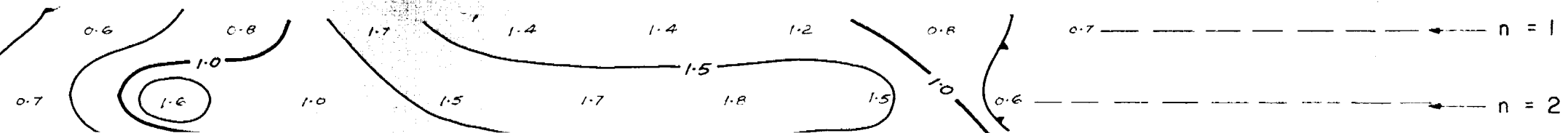
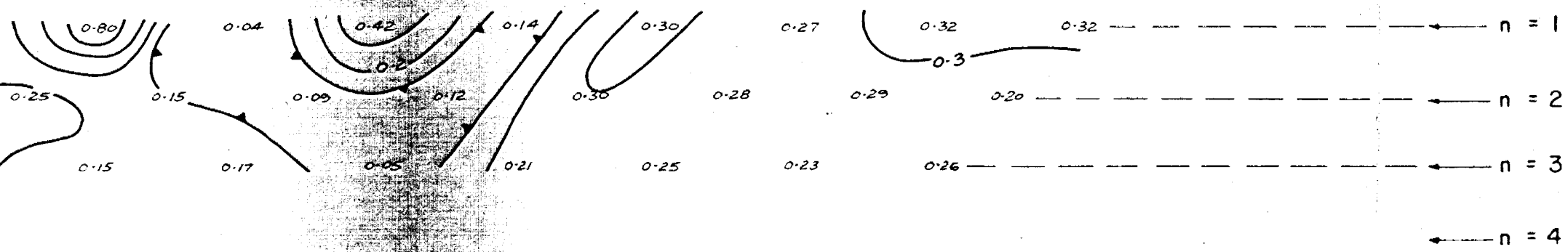
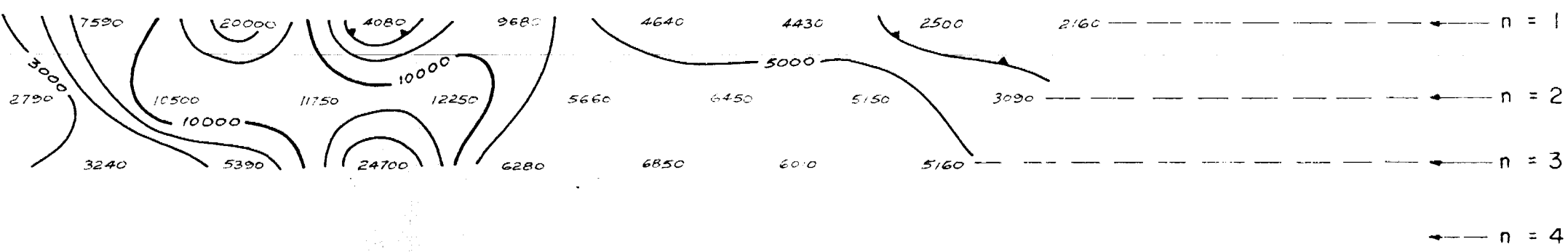
INDUCED POLARIZATION  
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RESISTIVITY SURVEY  
for  
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BENNEWEISS TOWNSHIP  
Sudbury M.D. Ontario

LINE NO. 28W



308                      245                      185                      125                      65                      00



LINE NO. 28W

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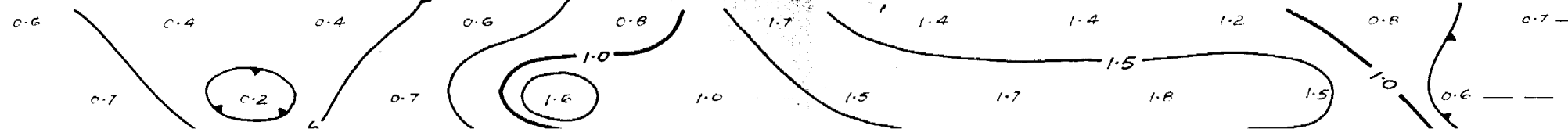
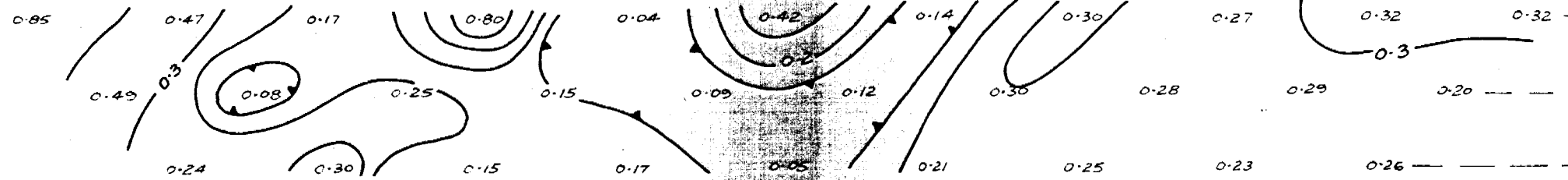
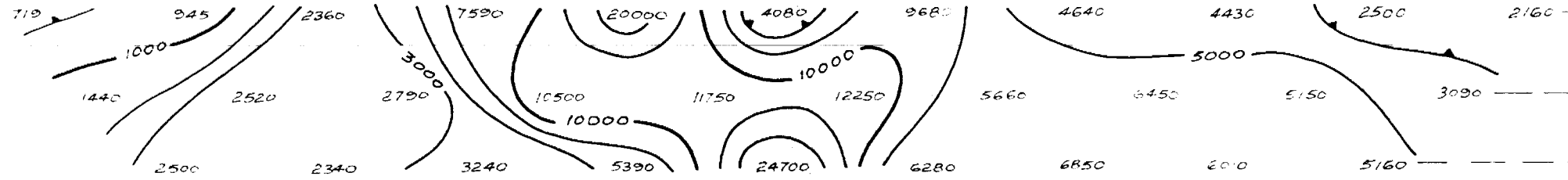
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Lake

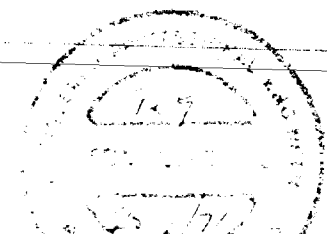
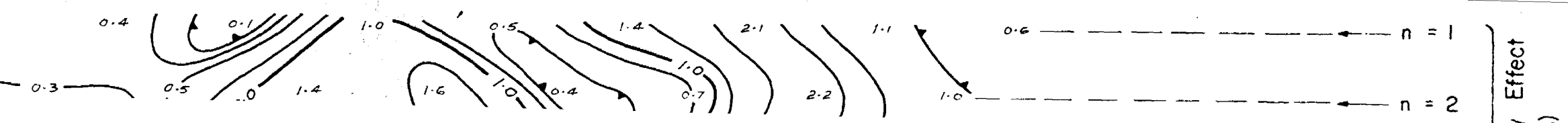
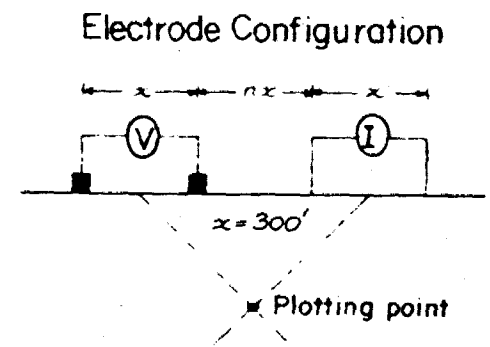
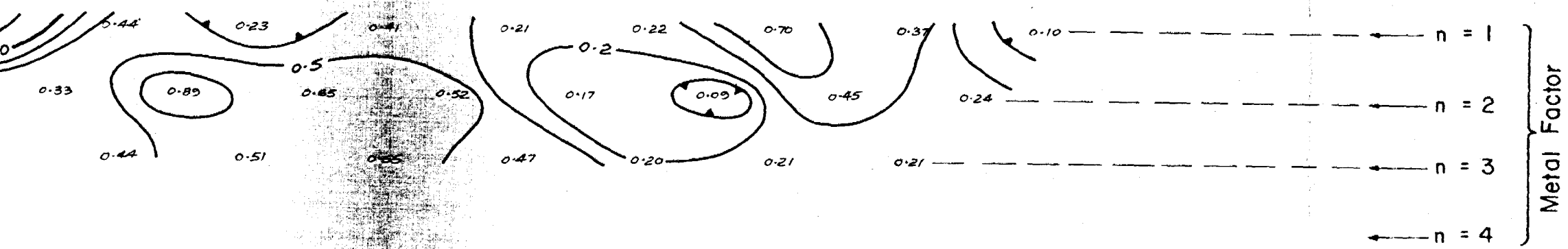
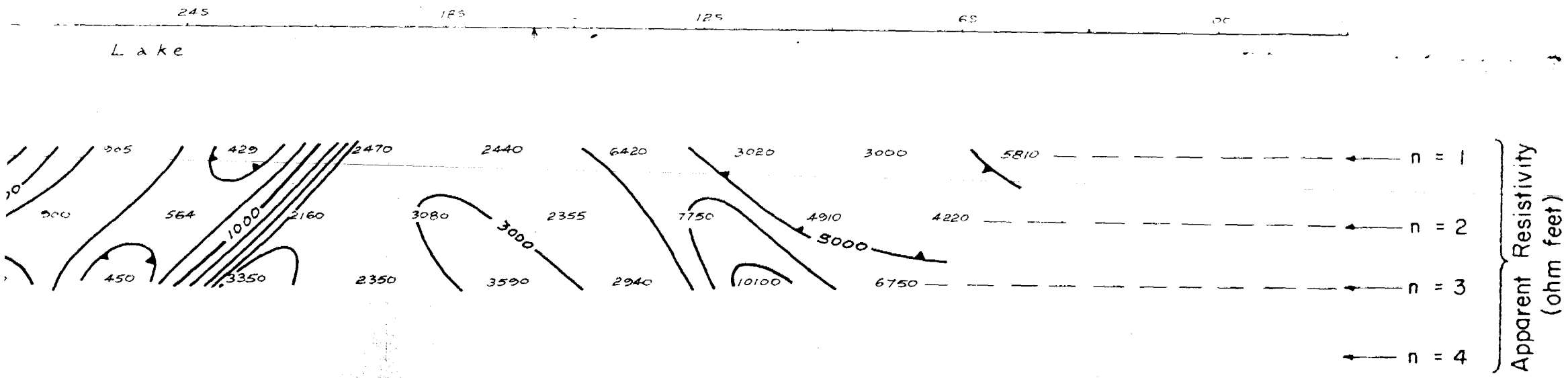




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**BENNEWEISS TOWNSHIP  
Sudbury M.D. Ontario**

LINE NO. 8W



LINE NO. 8W

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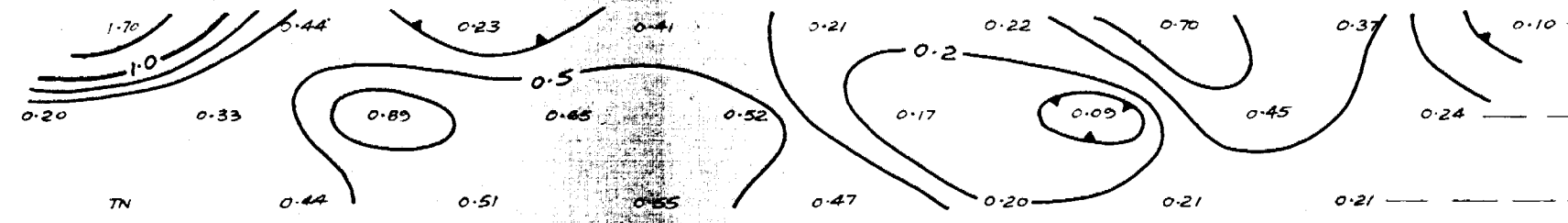
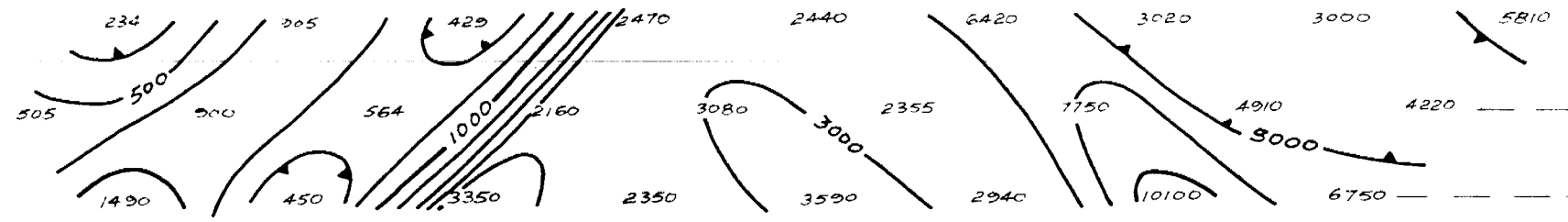
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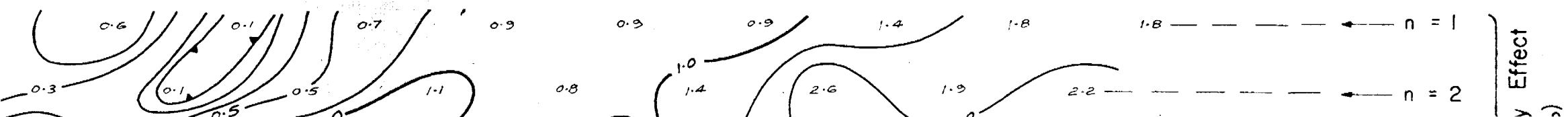
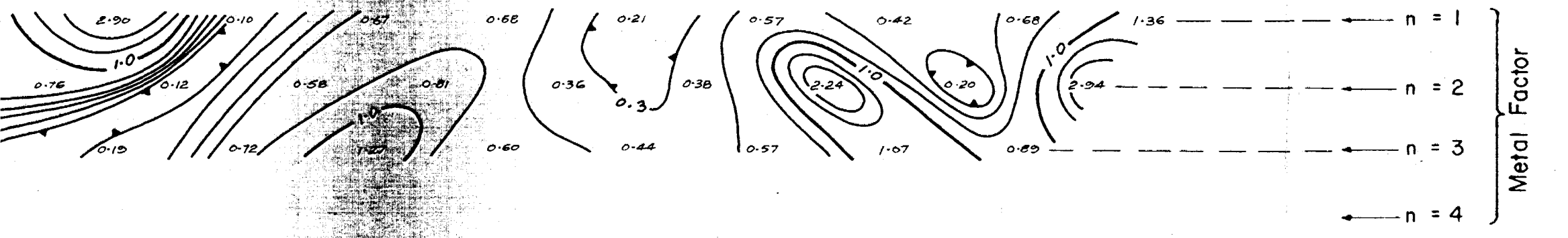
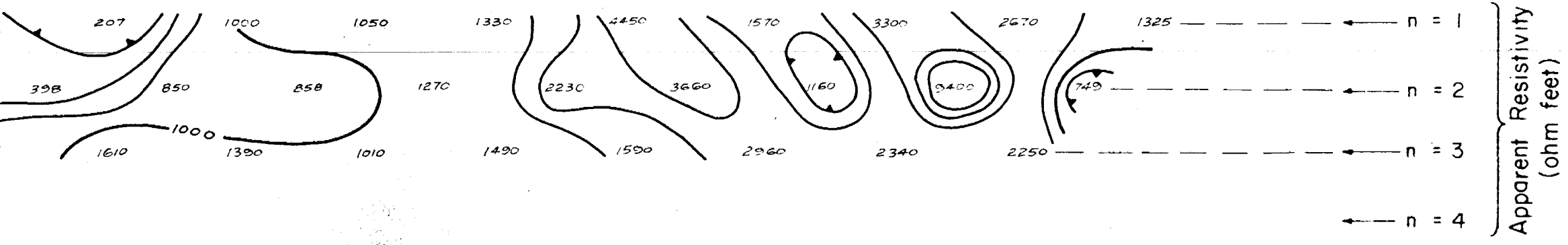
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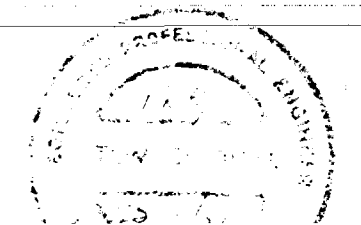
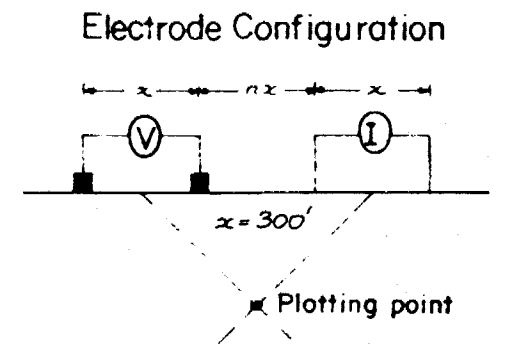




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for  
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**BENNEWEISS TOWNSHIP  
Sudbury M.D. Ontario**

LINE NO. 12 W



LINE NO. 12 W

425

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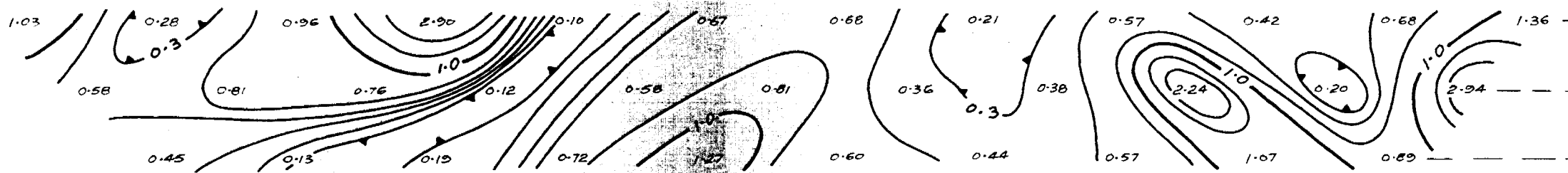
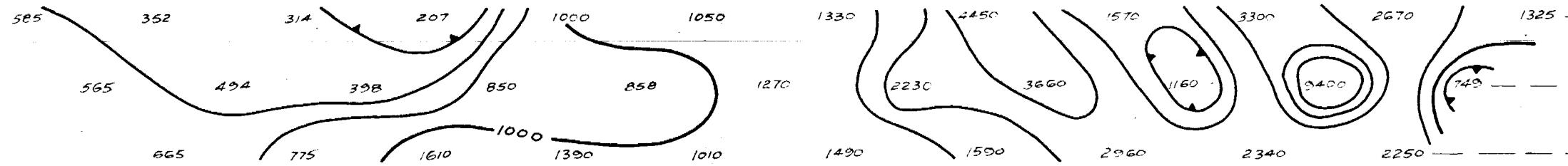
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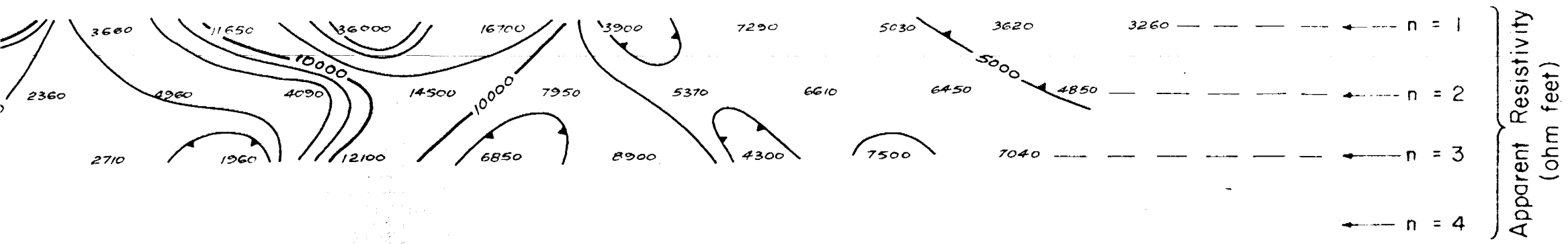
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Lake



309                      245                      185                      125                      65                      00

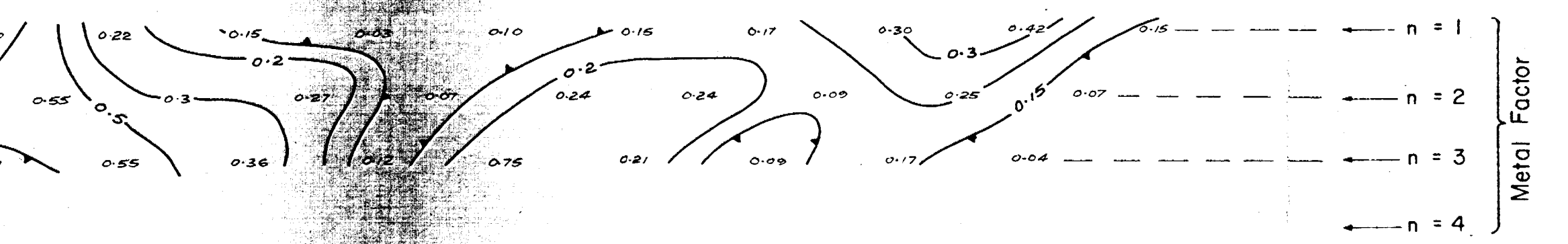


Apparent Resistivity  
(ohm feet)

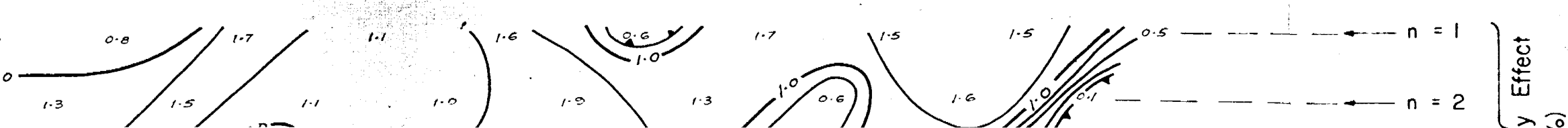
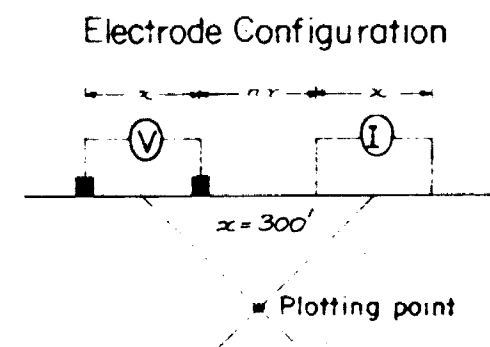
**INDUCED POLARIZATION  
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SAFARI EXPLORATIONS LTD.**

**BENNEWEISS TOWNSHIP  
Sudbury M.D. Ontario**

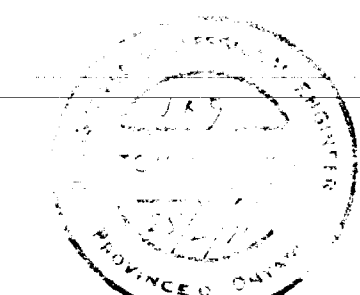
LINE NO. 24W



Metal Factor



Effect



LINE NO. 24W

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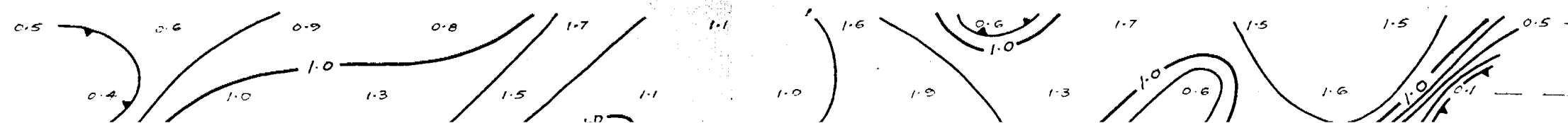
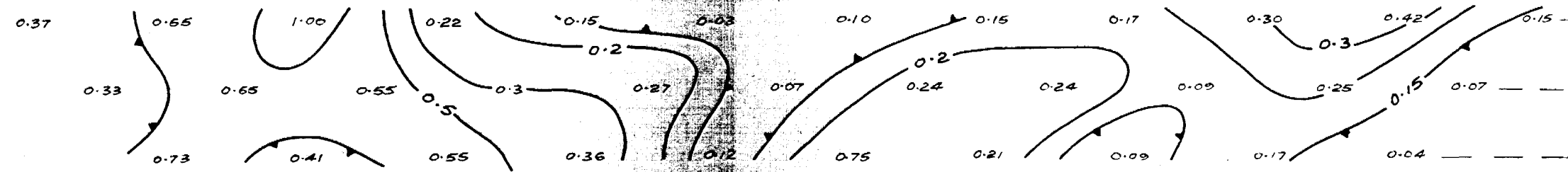
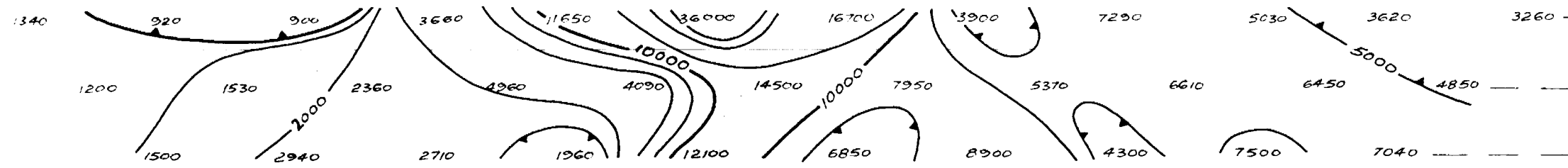
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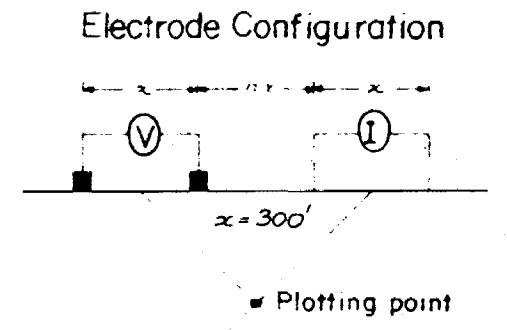
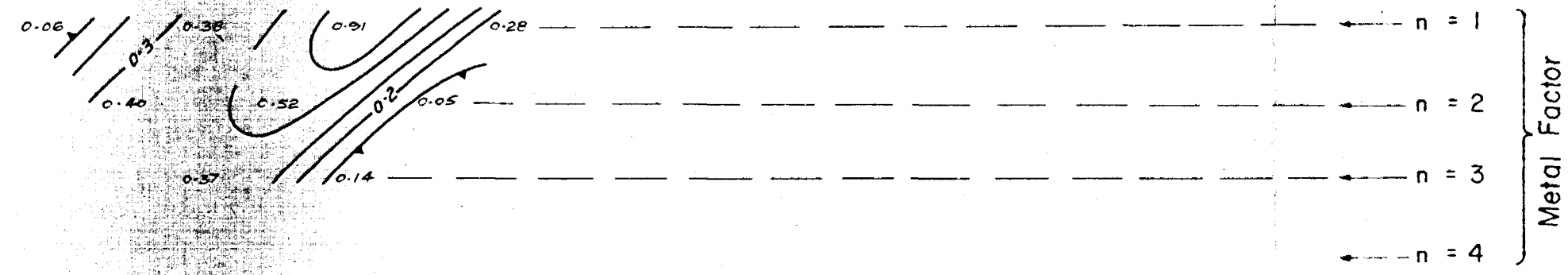
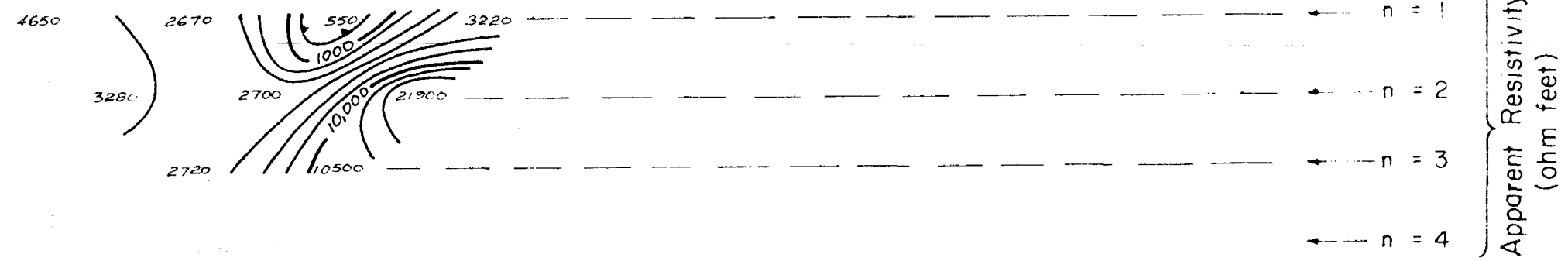


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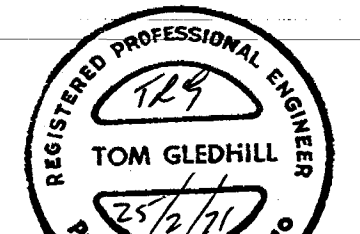
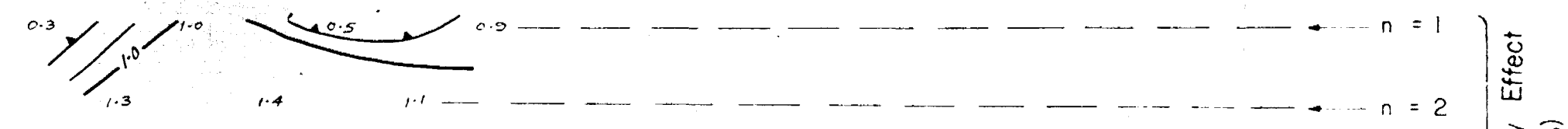
Lake

**INDUCED POLARIZATION  
AND  
RESISTIVITY SURVEY  
for  
SAFARI EXPLORATIONS LTD.**

**BENNEWEISS TOWNSHIP  
Sudbury M.D. Ontario**



LINE NO. 4E



LINE NO. 4E



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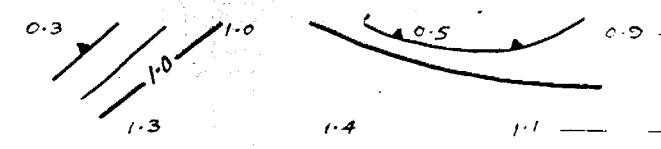
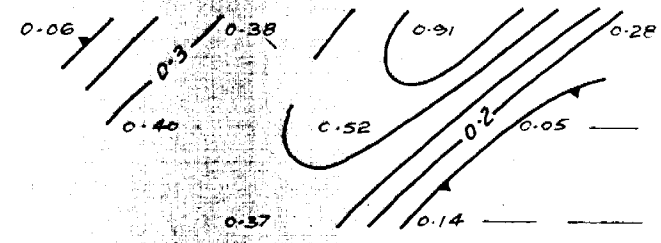
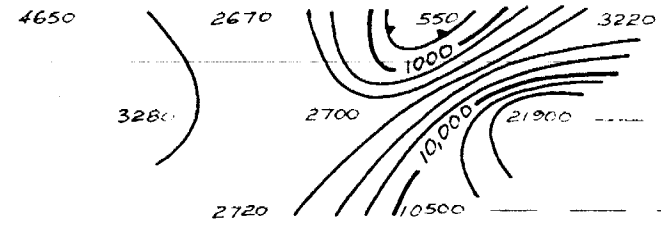
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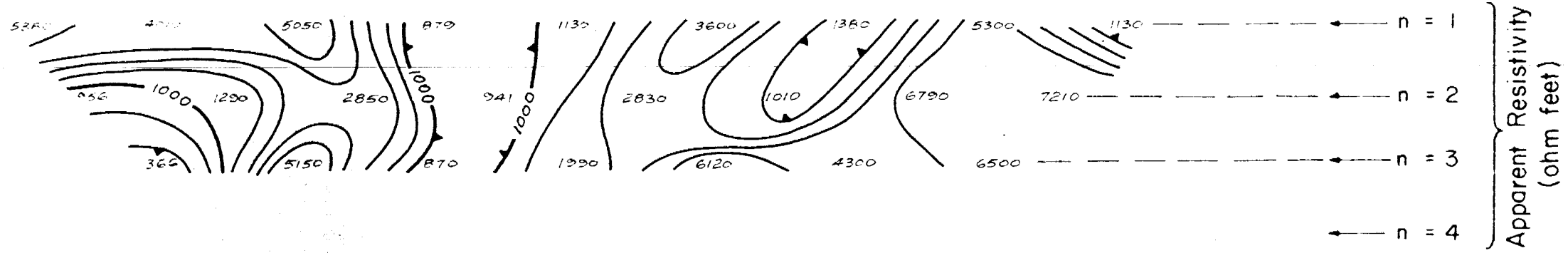
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Lake



305      245      185      125      65      00

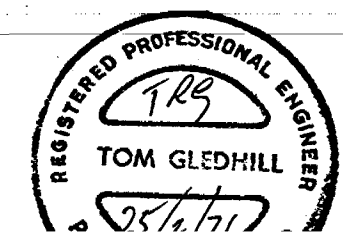
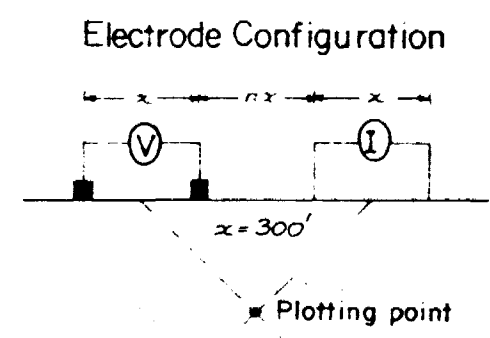
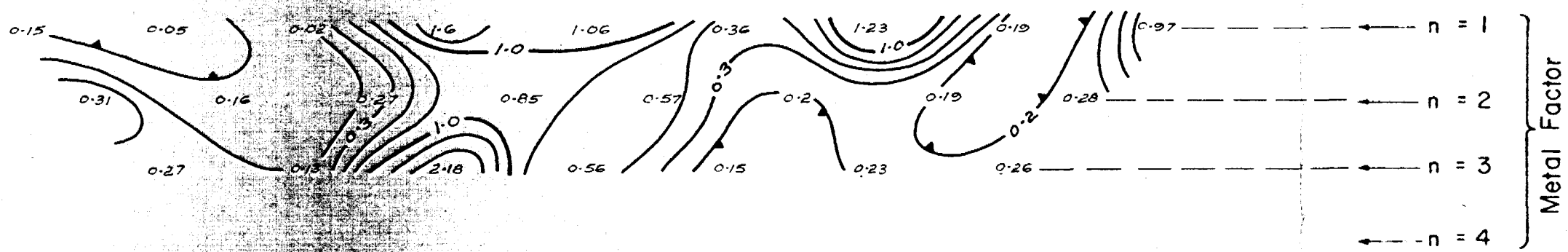
L a k e



**INDUCED POLARIZATION  
AND  
RESISTIVITY SURVEY  
for  
SAFARI EXPLORATIONS LTD.**

**BENNEWEISS TOWNSHIP  
Sudbury M.D. Ontario**

LINE NO. 00



LINE NO. 00

425

365

305

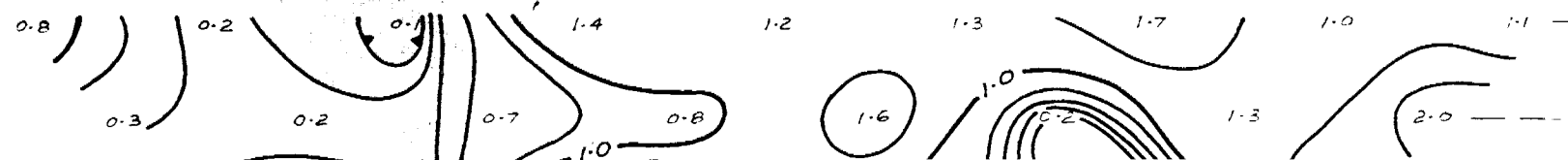
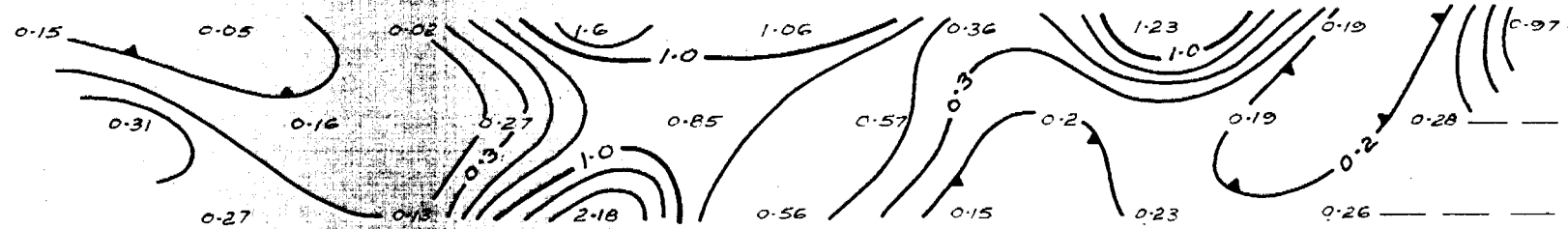
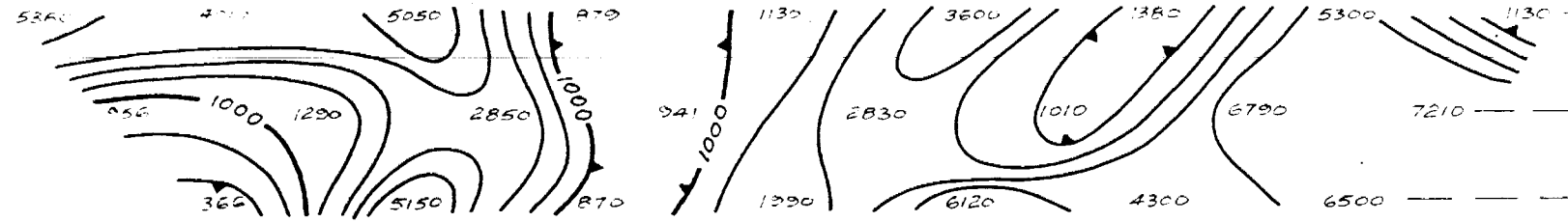
245

185

125

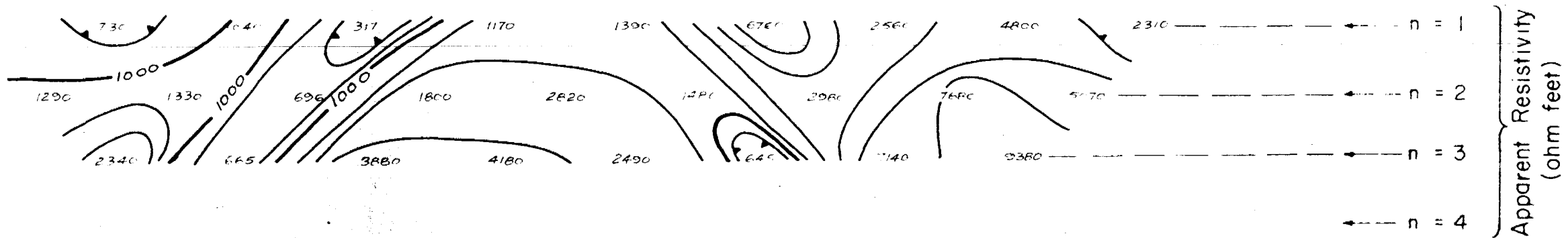
65

L a k e



308      245      185      125      65      00

Lake

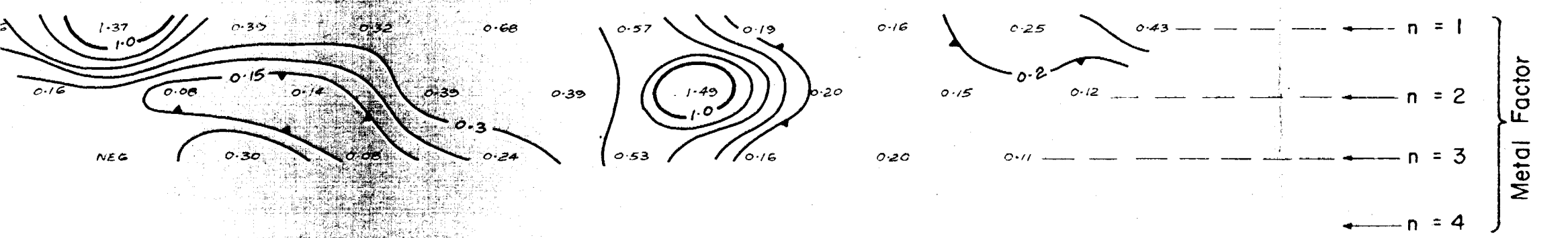


Apparent Resistivity  
(ohm feet)

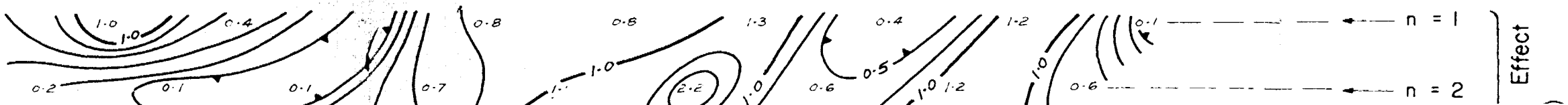
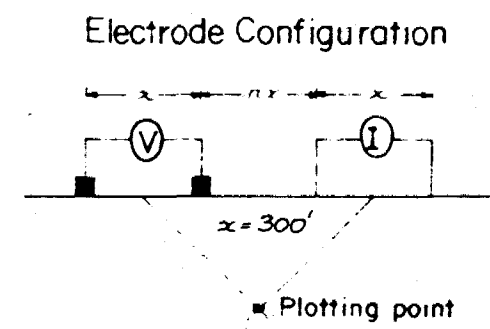
**INDUCED POLARIZATION  
AND  
RESISTIVITY SURVEY  
for  
SAFARI EXPLORATIONS LTD.**

**BENNEWEISS TOWNSHIP  
Sudbury M.D. Ontario**

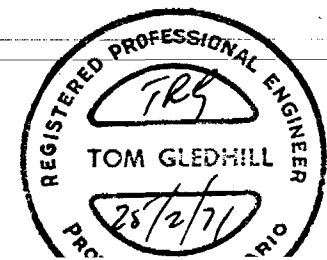
LINE NO. 4W



Metal Factor



Effect



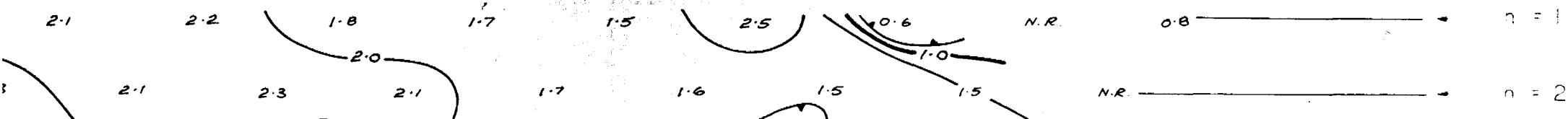
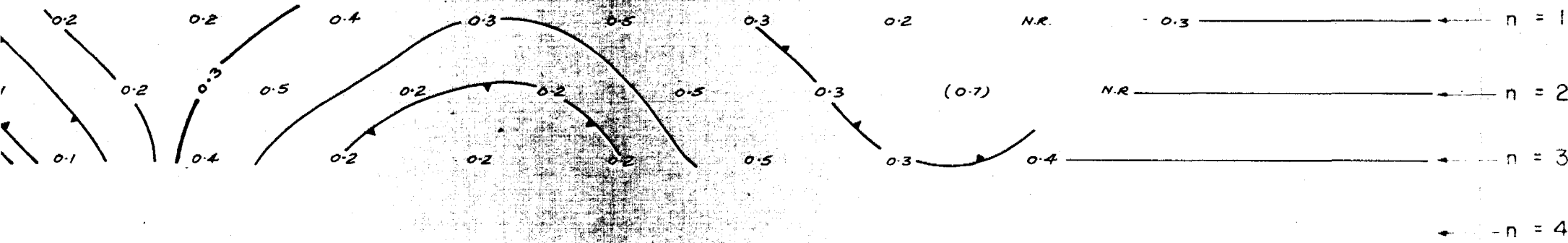
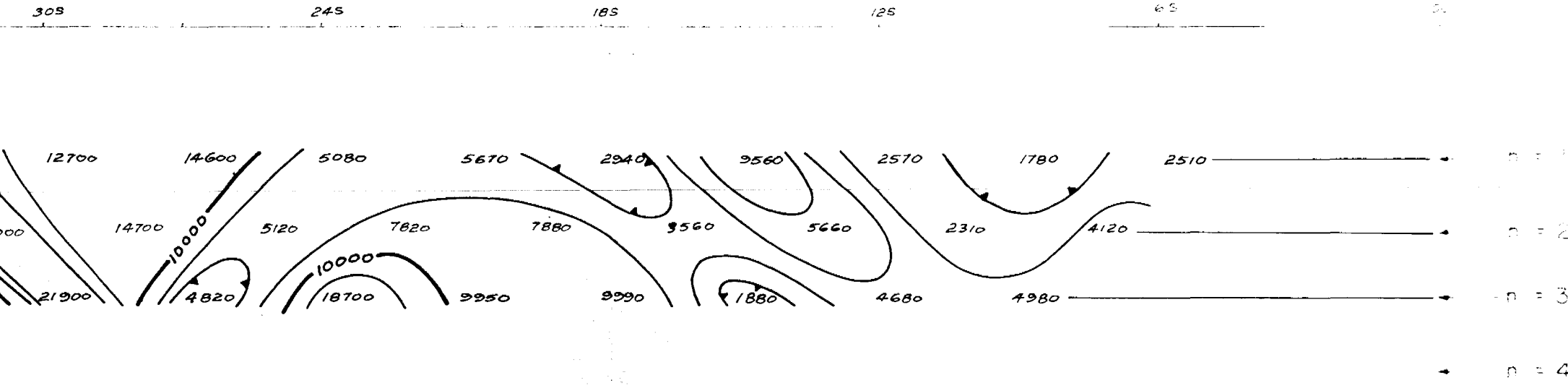
LINE NO. 4W



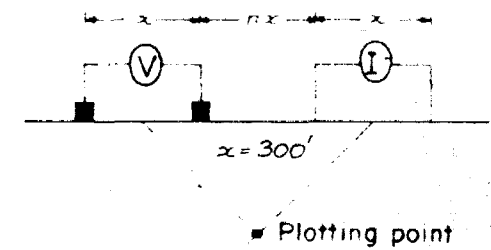
INDUCED POLARIZATION  
AND  
RESISTIVITY SURVEY  
for  
SAFARI EXPLORATIONS LTD.

BENNEWEISS TOWNSHIP  
Sudbury M.D. Ontario

LINE NO. 36W



Electrode Configuration



LINE NO. 36W







**SUBMISSION OF GEOLOGICAL, GEOPHYSICAL AND GEOCHEMICAL SURVEYS  
AS ASSESSMENT WORK**

In order to simplify the filing of geological, geochemical and ground geophysical surveys for assessment work, the Minister has approved the following procedure under Section 84 (8a) of the Ontario Mining Act. This special provision does not apply to airborne geophysical surveys.

If, in the opinion of the Minister, a ground geophysical survey meets the requirements prescribed for such a survey, including:

- (a) substantial and systematic coverage of each claim
- (b) line spacing not exceeding 400 foot intervals
- (c) stations not exceeding 100 foot intervals or
- (d) the average number of readings per claim not less than 40 readings

it will qualify for a credit of 40 assessment work days for each claim so covered. It will not be necessary for the applicant to furnish any data or breakdown concerning the persons employed in the survey except for the names and addresses of those in charge of the various phases (linecutting contractor, etc.). It will be assumed that the required number of man days were spent in producing the survey to qualify for the specified credit.

Each additional ground geophysical survey using the same grid system and otherwise meeting these requirements will qualify for an assessment work credit of 20 days.

A geological survey using the same grid system, and meeting the requirements for submission of geological surveys for maximum credits will qualify for an assessment work credit of 20 days. If line cutting has not previously been reported with any other survey and is reported in conjunction with the geological survey a credit of 40 days per claim will be allowed for the survey.

Similarly, a geochemical survey using the same grid system with the average number of collected samples per claim being not less than 40 samples, and meeting the requirements for the submission of geochemical surveys for maximum credits, will qualify for an assessment work credit of 20 days. If line cutting has not previously been reported with any other survey and is reported in conjunction with the geochemical survey a credit of 40 days per claim will be allowed for the survey.

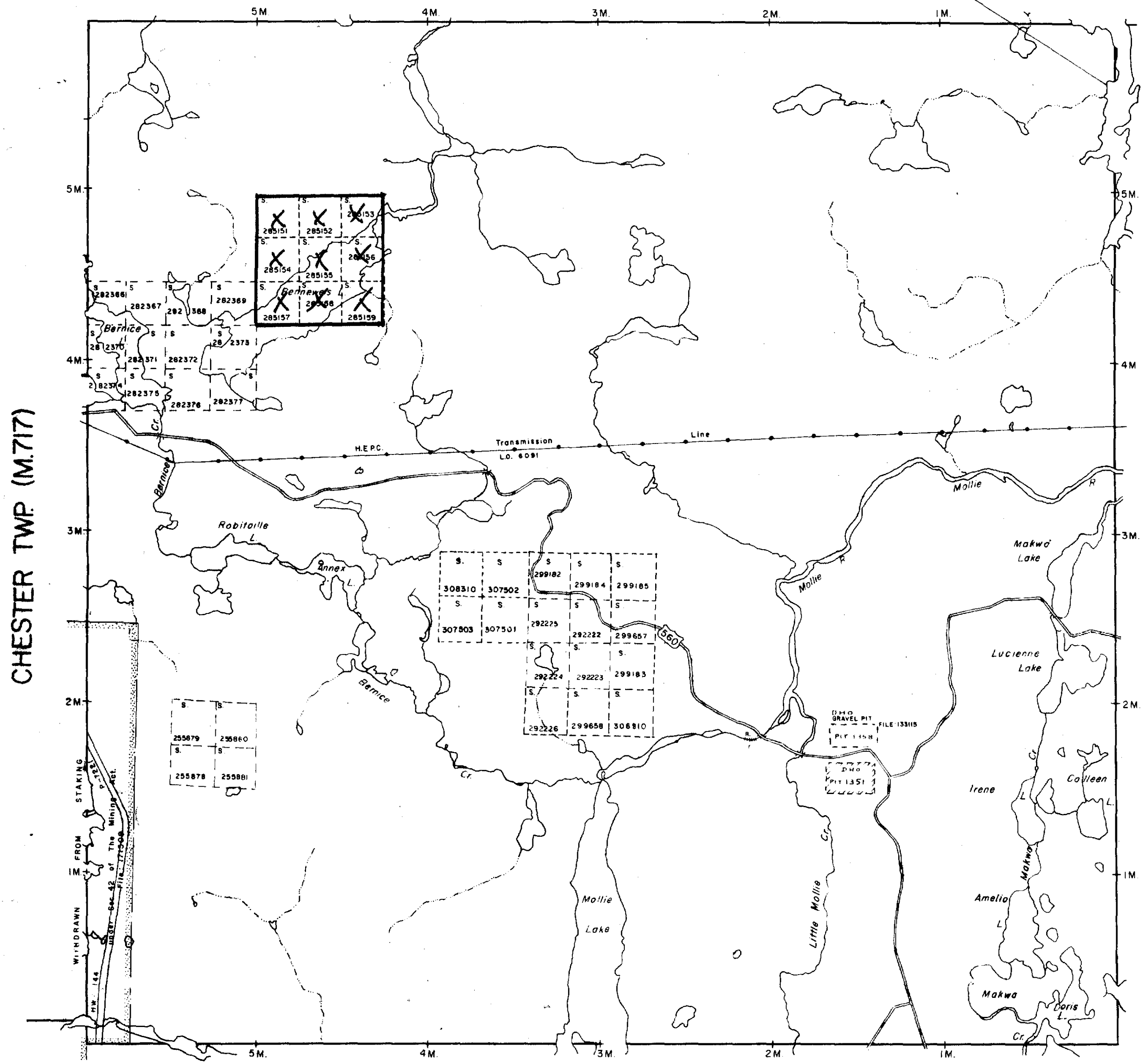
Credits for partial coverage or for surveys not meeting requirements for full credit will be granted on a pro-rata basis.

If the credits are reduced for any reason, a fifteen day Notice of Intent will be issued. During this period, the applicant may apply to the Mining Commissioner for relief if his claims are jeopardized for lack of work or, if he wishes, may file with the Department, normal assessment work breakdowns listing the names of the employees and the dates of work. The survey would then be re-assessed to determine if higher credits may be allowed under the provisions of subsections 8 and 9 of section 84 of the Mining Act.

If new breakdowns are not submitted, the Performance and Coverage credits are confirmed to the Mining Recorder at the end of the fifteen days.

ST. LOUIS TWP (M.1127)

400' Surface Rights Reservation  
Around Minisinkwa Lake To The  
Dept. Of Lands & Forests  
File-160708



CHESTER TWP (M.717)

CHAMPAGNE TWP (M.712)

VROOMAN TWP (M.1173)

THE TOWNSHIP  
OF

**BENNEWEIS**

*Claim map*

DISTRICT OF  
**SUDBURY**

SUDBURY  
MINING DIVISION

SCALE: 1-INCH 40 CHAINS

LEGEND

- PATENTED LAND Ⓟ
- CROWN LAND SALE C.S.
- LEASES Ⓛ
- LOCATED LAND Loc.
- LICENSE OF OCCUPATION L.O.
- MINING RIGHTS ONLY M.R.O.
- SURFACE RIGHTS ONLY S.R.O.
- ROADS —
- IMPROVED ROADS —
- KING'S HIGHWAYS —
- RAILWAYS —
- POWER LINES —
- MARSH OR MUSKEG —
- MINES Ⓧ
- CANCELLED Ⓞ

NOTES

400' Surface rights Reservation around all Lakes and Rivers.

DATE OF ISSUE

JUN 9 1971

ONT. DEPT. OF MINES  
AND NORTHERN AFFAIRS

PLAN NO. **M.658**

**ONTARIO  
DEPARTMENT OF MINES  
AND NORTHERN AFFAIRS**



41P12SW0023 2,445 BENNEWEIS