

PROSPECTUS

OF



42A05NE0119 2.992 TURNBULL

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JAMESTOWN EXPLORATION INC.
(Formerly Ameranium Mines Limited)

W. D. LATIMER CO. LIMITED
Registered Broker-Dealer acting on behalf of
RICHFIELD SECURITIES LIMITED
Underwriter

NEW ISSUE:

200,000 shares are firmly underwritten as follows:

<u>No. of Shares Firmly Underwritten</u>	<u>Price per Share</u>	<u>Net Proceeds to Corporation</u>	<u>Maximum Offering Price</u>
200,000	25 cents	\$50,000.00	49 cents per share

The Underwriter may be said to realize a gross profit in an amount equal to the difference between the price paid for such shares and the price at which the said shares are sold to the public.

The Underwriter will offer shares purchased for sale as principal and through such registered security dealers who may be appointed as agents from time to time and who will be paid commissions not exceeding 25% of the selling price of such shares.

The purpose of this issue is to provide the Corporation with sufficient funds to defray its ordinary operating expenses and the costs of carrying out the exploration and development programs recommended by its consulting engineer. See within under the captions "History and Business" and "Use of Proceeds".

During the period April 1, 1972 to June 30, 1972 shares of the Corporation prior to reorganization traded on the Canadian Stock Exchange at prices ranging from a low of 6 cents per share to a high of 6 cents per share. During this period there was no substantial volume of trading in the shares of the Corporation. Since that date the share capital of the Corporation has been reorganized. See within under the heading "Capitalization" for particulars.

THESE SECURITIES ARE SPECULATIVE

NO SECURITIES COMMISSION OR SIMILAR AUTHORITY IN CANADA HAS IN ANY WAY PASSED UPON THE MERITS OF THE SECURITIES OFFERED HEREUNDER, AND ANY REPRESENTATION TO THE CONTRARY IS AN OFFENCE.

The date of this Prospectus is July 7th, 1972.

THE CORPORATION

Jamestown Explorations Inc. (hereinafter for convenience referred to as "the Corporation") was incorporated as a public mining Corporation under The Companies Act (Ontario) by Letters Patent dated July 6, 1949 under the name Ameranium Mines Limited. By Supplementary Letters Patent dated May 4, 1956 the authorized capital of the Corporation was increased from 3,500,000 shares of the par value of \$1.00 each to 5,000,000 shares of the par value of \$1.00 each. By Supplementary Letters Patent dated July 27, 1970, the authorized capital of the Corporation was further increased to 7,000,000 shares of the par value of \$1.00 each.

By Articles of Amendment effective February 19, 1971, the Articles (Letters Patent) of the Corporation were amended by changing all of the shares of the Corporation of the par value of \$1.00 each to shares without par value.

By Articles of Amendment effective June 29, 1972, the Articles of the Corporation were further amended as follows:

1. The share capital of the Corporation was reorganized on the following basis:
 - (a) 4,598,112 out of 5,020,912 previously issued shares were consolidated into 574,764 issued shares;
 - (b) 422,800 issued shares previously held by Ramsar Securities Limited were donated to the Corporation and were not affected by the consolidation;
 - (c) In the result the authorized capital of the Corporation is 3,000,000 shares without par value of which 997,564 shares are issued and outstanding.
2. The name of the Corporation was changed to Jamestown Explorations Inc. and the objects of the Corporation were broadened generally.

The head office of the Corporation is located at the 7th Floor, 366 Bay Street, Toronto, Ontario.

HISTORY AND BUSINESS

Since incorporation the Corporation has carried on business of a mining exploration Corporation generally examining and acquiring mining claims and properties for the purpose of exploring and developing same.

A brief history of some of the past activities of the Corporation is set forth below. The Corporation is currently interested in three separate groups of mining claims particulars of which are set forth below under the headings "Muskego Township Property", "Turnbull Township Property" and "Horwood Township Property".

By an agreement dated October 28, 1949 the Corporation acquired from Walter Mintern, then of Room 301, 330 Bay Street, Toronto, Ontario, the following three groups of mining claims:

- Group #1 - 9 claims, Athabasca Mining Division, Saskatchewan, known as IKE 10 to 18 inclusive, and being claim numbers S 5947 to S 5955 inclusive;
- Group #2 - 9 claims, Sault Ste Marie Mining Division, known as SSM 16499 to 16507 inclusive;
- Group #3 - 9 claims, Street Township, Sudbury Mining Division, Ontario, known as S 52638 to 52646 inclusive.

The consideration paid to Mintern for these claims was 1,166,666 fully paid and non-assessable shares in the capital of the Corporation, of which 1,050,000 when issued were originally deposited with the Corporation's Registrar and Transfer Agent and held by it in escrow, 1,025,000 in the name of Mintern and 5,000 to each of Bussin, Robins, Tugg, Martin and Wilson, directors of the Corporation at that time. A total of 254,000 shares were released pro rata from the escrow in 1951 and 1953 and in 1955 Mintern transferred to Emanuel Constam, then of Toronto, Ontario, his balance namely, 777,045 escrowed shares. A further 205,534 shares were subsequently released on a pro rata basis from the escrow and in 1963 Constam transferred his balance namely, 576,406 escrowed shares to Consolidated Mogul Mines Limited (now International Mogul Mines Limited, Toronto, Ontario). A further 157,350 shares were released pro rata from the escrow and in 1964 Mogul transferred its balance namely, 422,801 escrowed shares to Cerpan Financial Corporation Limited. See below for the further disposition of these escrowed shares by Cerpan and see the caption "Escrowed Shares" for particulars of the shares remaining in escrow.

The Corporation expended in exploration and development on said Group #1, \$107,297.80, and upon Groups #2 and #3, \$3,654.00. Groups #2 and #3 were dropped in 1951 and Group #1 in 1959.

Pursuant to an Agreement dated as of the 13th day of April, 1970, as amended June 3, 1970, between Ramsar Securities Limited, Suite 805, 100 Adelaide Street West, Toronto, Ontario, (hereinafter Ramsar), Raymore Developments Limited, Suite 805, 100 Adelaide Street West, Toronto, Ontario (hereinafter Raymore), the Corporation, and Cerpan Financial Corporation Limited, Penthouse Suite, 121 Richmond Street West, Toronto, Ontario (hereinafter Cerpan), the Corporation acquired the following properties:

ANTLER LAKE PROPERTY

- (a) All 100% interest in a group of 18 unpatented mining claims located in the Antler Lake Area in the Thunder Bay Mining Division of Ontario, which claims are duly recorded in the Office of the Mining Recorder for said Mining Division at Thunder Bay (P) Ontario as numbers TB238047 to TB238049 inclusively; TB238051 to TB238053 inclusively; TB238058 to TB238060 inclusively; TB230898 to TB230900 inclusively; TB230907 to TB230909 inclusively; and TB230914 to TB230916 inclusively (hereinafter collectively called the Antler Lake Property).

MONT LAURIER PROPERTY

- (b) All 100% interest in a group of 60 unpatented mining claims located in Joliette 50 and 51 Townships in the Province of Quebec, which claims were duly recorded with the Department of Natural Resources for said Province as claims 1 to 5 on each of Prospector's Licence No. 286366 to 286377 inclusively (hereinafter collectively called the Mont Laurier Property).

The Corporation paid \$2,700.00 to Ramsar for the Antler Lake Property and \$6,000.00 to Raymore for the Mont Laurier Property.

Pursuant to the said agreement Cerpan sold to each of Ramsar and Raymore 221,650 fully paid and non-assessable shares in the capital of the Corporation, of which 10,250 were free shares and 211,400 are subject to escrow on the terms set forth in the section headed ESCROWED SHARES. The consideration paid by each of Ramsar and Raymore for said shares is \$2,500.00. Raymore subsequently sold and transferred to Ramsar 211,400 escrowed shares so that in the result Ramsar owned 422,800 escrowed shares of the Corporation.

Ramsar subsequently donated these shares to the Corporation by transferring same to Robert Brown the Secretary of the Corporation who holds same as Trustee for the benefit of the Corporation. These shares will ultimately be used for treasury purposes.

The Corporation was advised that the Antler Lake Property was acquired by Ramsar at a cost of \$2,700.00 and that Raymore paid \$3,000.00 to acquire the Mont Laurier Property. Raymore subsequently caused a gamma ray spectrometer survey to be carried out over the Mont Laurier Property. To the knowledge of the signatories hereto Ramsar and Raymore were the only parties entitled to a greater than 5% interest in the vendor consideration. Albert Allison, 50 Sandringham Drive, Toronto, Ontario, is the only person having a greater than 5% interest in Ramsar. The only persons having a greater than 5% interest in Raymore are Albert Fisher, Apt. #1, 9 Warwick Avenue, Toronto, Ontario, and Samuel Young, 29 High Point Road, Don Mills, Ontario. The signatories hereto have been advised that the only parties having a greater than 5% interest in Cerpan are the Estate of Louis Pancer, Jack Gilbert, 265 Upper Highland Crescent, Willowdale, Ontario, and Harry Cravit, 14 Danville Drive, Willowdale, Ontario.

On the Antler Lake Property the Corporation has carried out airborne and ground magnetic and electromagnetic surveys at a cost of approximately \$5,480.00. No conductive zones were encountered and no further work is recommended. These claims will be reappraised before their lapsing date in December 1972.

On the Mont Laurier property, geochemical soil sampling and a scintillometer survey was carried out over 9 of the 60 claims at a cost of approximately \$2,500.00. 51 of the claims were dropped in 1971 and the remaining 9 claims were dropped in January 1972.

MONTCALM COUNTY, QUEBEC PROPERTY

By agreement dated September 30, 1970, the Corporation acquired from Lyle F. Smith, 505 Wellesley Avenue, Ottawa, Ontario, an option to acquire a 50% interest in twelve (12) unpatented mining claims located in Township 130, Montcalm County, Quebec. The initial option instalment of \$1,000 paid by the Corporation kept the option in good standing until March 3, 1971. The property was considered primarily a location bet and, since the results of work carried out on adjoining properties was not encouraging, the option was permitted to lapse on March 3, 1971. Other than the initial option instalment payment of \$1,000, the Corporation spent no other funds on this property.

During the past year the Corporation participated in two ventures in the drilling for oil and gas.

In the first participation the Corporation entered into a joint venture with Palomino Explorations Limited, Toronto, Ontario and Scott J. Putman, Box 67, Kingsville, Ontario, whereby the Corporation acquired a 40% participation in a well drilled in Colchester Township, County of Essex, Ontario; at a cost of \$4,250.00. A well was drilled to a depth of 1,041 feet and was abandoned as a dry hole.

In the second participation the Corporation acquired from Rawlings Drilling Company Ltd., Box 172, Chatham, Ontario, a 6 1/4% interest in a well which was drilled in McGillivray Township, County of Middlesex, Ontario, at a cost to the Corporation of \$1,500.00. The well was drilled to a depth of 1,909 feet and was abandoned as a dry hole.

The Corporation will not expend any further funds in connection with these participations and its interest will lapse by non-payment of delay rentals.

Muskego Township Property

By an agreement dated June 23, 1971, the Corporation acquired from Damien Rochon, Box 757, Timmins, Ontario, for the sum of \$500.00, 14 unpatented mining claims located in Muskego Township, Ontario, being mining claims Nos. P292723 to P292736 inclusive. During the summer and fall of 1971 the Corporation carried out an exploration program on this property consisting of linecutting, magnetic and electromagnetic surveys at a total cost of \$3,375.00.

The following is a summary of a report of Tom Gledhill, P.Eng., covering the Muskego Township claims. The full report of Mr. Gledhill dated November 10, 1971 has been filed and is available for inspection at the offices of the Ontario Securities Commission, 555 Yonge Street, Toronto, Ontario and W. D. Latimer Co. Limited, Suite 924, 800 Place Victoria, Montreal, Quebec.

The property is located in the south-central portion of Muskego Township, 50 miles west of Timmins along Highway 101 which cuts the northeast corner of the property. In 1971 a magnetic survey was carried out over the property and three anomalous areas developed. An electromagnetic survey was then carried out and ten (10) conductive zones were outlined. One of the conductive zones lies on the north flank of an extensive magnetic feature and warrants checking by either trenching or drilling at a cost which would probably not exceed \$2,500.00.

The Corporation intends to carry out the recommendations of Mr. Gledhill as set forth above.

By an agreement dated May 24, 1972, Albert Allison, 50 Sandringham Drive, Toronto, Ontario, has agreed to transfer to the Corporation two groups of unpatented mining claims as follows:

- (a) 20 claims - Turnbull Township, Porcupine Mining Division, Ontario, being claims Nos. P320137 to P320149 inclusive and P320246 to P320252 inclusive;
- (b) 16 claims - Horwood Township, Sudbury Mining Division, Ontario, being claims Nos. S326680 to 326691 inclusive and S352978 to S352981 inclusive;

at Mr. Allison's cost therefor, namely, \$2,100.00 in connection with the Turnbull Township Claims and \$2,000.00 in connection with the Horwood Township claims.

There is no plant or equipment on these properties and to-date the Corporation has not carried out any work thereon.

Turnbull Township Property

The following is a summary of the report of Tom Gledhill, P.Eng. covering the Turnbull Township claims. The full report of Mr. Gledhill dated May 24, 1972, has been filed and is available for inspection at the offices of the Ontario Securities Commission, 555 Yonge Street, Toronto, Ontario, and W. D. Latimer Co. Limited, Suite 924, 800 Place Victoria, Montreal, Quebec.

This property is located on the western boundary of Turnbull Township approximately 18 miles west of Timmins and is accessible by bush road southwest from Kamiskotia Lake. In this general area gabbro rocks have been intruded by granites and in the immediate area disseminated chalcopyrite and sphalerite have been reported in quartz veins in the gabbro rocks. It is recommended that the property be surveyed with induced polarization to locate disseminated or massive sulphides within the gabbro. A budget for this work would be \$5,000.00.

The Corporation intends to carry out the recommendations of Mr. Gledhill as set forth above.

Horwood Township Property

The following is a summary of the report of Tom Gledhill, P.Eng. covering the Horwood Township claims. The full report of Mr. Gledhill dated May 24, 1972, has been filed and is available for inspection at the offices of the Ontario Securities Commission, 555 Yonge Street, Toronto, Ontario, and W. D. Latimer Co. Limited, Suite 924, 800 Place Victoria, Montreal, Quebec.

The property is located in the central portion of Horwood Township on the east shore of Horwood Lake and is accessible by air from Timmins or Foleyet to Horwood Lake or by bush road to the west shore of Horwood Lake then by water two miles southeast to the property. The general area was explored for gold in the 1930's. A copper showing is located in Keewatin Volcanics in the central portion of the 16-claim group. It is recommended that an electromagnetic survey be carried out followed by limited prospecting for copper and gold. A budget for this program would be approximately \$3,500.00.

The Corporation intends to carry out the recommendations of Mr. Gledhill as set forth above.

CAPITAL STRUCTURE

The capital of the Corporation is comprised of shares of one class only, namely, common shares. All shares issued by the Corporation rank equally as to entitlement to dividends and voting power, each share carrying one vote. There are no indentures or agreements extant or proposed limiting the payment of dividends. At all meetings of the shareholders of the Corporation two shareholders personally present and entitled to vote thereat constitute a quorum and at such meetings resolutions may be voted upon by a show of hands unless a poll is demanded by a shareholder. On a show of hands every shareholder voting exercises one vote whereas on a poll every shareholder voting exercises one vote for each share held by him. In either case, the Chairman has a second or deciding vote in the event of a tie vote. There are no conversion, pre-emptive, liquidation or distribution rights or other special privileges or provisions whatsoever attaching to any of the shares in the capital of the Corporation. None of the presently issued and outstanding shares in the Capital of the Corporation, are subject to call having been issued as fully paid and non-assessable shares. None of the shares offered hereby will be subject to call or assessment of any kind.

CAPITALIZATION

<u>Designation of Security</u>	<u>Amount Authorized</u>	<u>Amount outstanding as at the date of the most recent balance sheet contained in the Prospectus</u>	<u>Amount outstanding as at date of Prospectus</u>	<u>Amount outstanding if all securities being issued are sold</u>
Common Shares without par value	3,000,000	5,020,911 * (\$648,158.00)	997,564 (\$648,158.00)	1,197,564 ** (\$698,158.00)

The only persons having a greater than 5% interest in Richfield Securities Limited are Beatrice Latimer, 29 Edgehill Road, Islington, Ontario; Jane Bracken, 148 Duplex Avenue, Toronto 7, Ontario; Anne Wardle, 5 Cheviot Place, Apartment 30, Toronto, Ontario; and Audrey MacGregor, 128 Glen Manor Drive, Toronto, Ontario.

The only persons owning a greater than 5% interest in W. D. L. Holdings Limited are Beatrice Latimer, 29 Edgehill Road, Islington, Ontario; Jane Bracken, 148 Duplex Avenue, Toronto, Ontario; and Anne Wardle, 5 Cheviot Place, Apartment 30, Toronto, Ontario.

The securities offered hereby will be offered by the aforesaid Underwriter through registered security dealers appointed from time to time as agent for the Underwriter.

There are no sub-underwriting agreements outstanding or proposed. In the event that any sub-underwriting is granted an amendment to this prospectus will be filed within 10 days thereof if the shares of the Corporation are then in the course of distribution to the public.

The maximum offering price of the shares offered hereby will be determined in accordance with the schedule set forth on the face page of this prospectus.

ESCROWED SHARES

As at the date hereof 424,089 shares in the capital of the Corporation are held by Premier Trust Company at Toronto, Ontario, subject to release only upon the prior written consents of the board of directors of the Corporation and the Quebec and Ontario Securities Commissions. Any dealings with such shares within the escrow require the prior written consents of the Quebec and Ontario Securities Commissions. 422,800 of these escrowed shares are held by a Trustee for the benefit of the Treasury of the Corporation.

<u>Designation of Class</u>	<u>No. of Shares held in Escrow</u>	<u>Percentage of Class</u>
Common Shares without par value	424,089	35.4%

* After giving effect to the issue of 200,000 underwritten shares.

USE OF PROCEEDS

The net proceeds to be received by the Corporation from the sale of the underwritten shares as hereinbefore referred to are estimated at approximately \$44,000.00 after deducting the expenses of this offering, estimated at approximately \$6,000.00. These funds together with funds presently in the Corporation's treasury will be used to defray the ordinary operating expenses of the Corporation; and the cost of the programs recommended for the Corporation's Muskego Township mining claims (\$2,500.00); Horwood Township mining claims (\$3,500.00) and the Turnbull Township mining claims (\$5,000.00).

Additionally, moneys in the Corporation's treasury as available may be used to defray programs of acquiring, staking, examining, exploring and developing mining and/or oil and gas properties, either alone or in concert with others and to generally carry out explorational programs as opportunity and finances permit, provided, however, that no sums will be expended on any new properties acquired without an amendment to the Corporation's prospectus being filed if the shares of the Corporation are still in the course of distribution to the public.

PURCHASERS' STATUTORY RIGHT OF WITHDRAWAL AND RESCISSION

A. Right of Withdrawal

An agreement of purchase and sale covering any of the shares hereby offered is not binding upon the purchaser if the Corporation from whom the purchaser buys same receives written or telegraphic notice evidencing the intention of the purchaser not to be bound by the agreement not later than midnight of the second day (exclusive of Saturdays, Sundays and holidays) after receipt of the prospectus of the Corporation or amended prospectus; provided the purchaser has not sold or transferred the said shares prior to the expiration of the said two-day period.

Receipt of the prospectus or amended prospectus by the agent of the purchaser and receipt of the said notice by the agent for the vendor of the said shares shall be receipt by the purchaser and vendor respectively.

B. Right of Rescission

A purchaser of any of the shares hereby offered has a right to rescind his contract to purchase while he is still the owner of the said shares if the prospectus of the Corporation and any amending prospectus received by such purchaser, as of the date of receipt, contains an untrue statement of a material fact or omits to state a material fact necessary in order to make any statement contained therein not misleading; provided, however, such right of rescission will not apply:

(a) if the untruth or fact of omission was unknown to the Corporation and to the underwriter and could not have been known in the exercise of reasonable diligence;

(b) if such statement or omission is disclosed in an amended prospectus and same has been received by the purchaser;

(c) if the purchaser knew the untruth of the statement or knew of the omission at the time of purchase.

Receipt of a prospectus or an amended prospectus by a party who is acting as agent or who thereafter commences to act as agent of the purchaser shall be receipt by the purchaser. No action shall be commenced after the expiration of ninety days from the last to occur of the receipt of the prospectus or the date of the contract.

The full text of the respective statutory provisions summarized above are contained in Section 64 and 65 of The Securities Act (Ontario).

PRINCIPAL HOLDERS OF SHARES

To the knowledge of the signatories hereto no person or Corporation owns in excess of 10% of the outstanding shares of the Corporation.

The directors and officers of the Corporation own less than 1% of the outstanding shares of the Corporation.

PROMOTER

Albert Allison, 50 Sandringham Drive, Toronto, Ontario, was instrumental in reorganizing the Corporation and may be considered to be the promoter of the Corporation.

MANAGEMENT

The names and addresses of the directors and officers of the Corporation and the position presently held are listed below:

President and Director Murray Cooper, Suite 207, 2500 Bathurst Street, Toronto, Ontario. Mining Executive. For more than the past five years he has been an officer and director of several mining companies including Silver-Miller Mines Limited and D'Eldona Gold Mines Limited.

Secretary-Treasurer (Not a Director) Robert Brown, 6 Zaharias Court, Willowdale, Ontario. Public Accountant and Corporate Secretary. For more than the past five years he has been the President of Robert Brown Corporate Services Limited. He is a director and officer of numerous mining companies, including D'Eldona Gold Mines Limited and Aldona Mines Limited.

Director William Washbourne Dennis, 16 Cranleigh Court, Islington, Ontario. For the past 40 years, self-employed prospecting in Canada from coast to coast. Mr. Dennis was President of the Prospectors and Developers Association during the years 1965 and 1966, and at the present time occupies an executive position with that organization. He is a Director of several mining companies, including Safari Explorations Limited and Summit Diversified Limited.

Director

Karl Imregh, 80 The Bridle Path, Don Mills, Ontario. Accountant. He was in the employ of Robert Brown Corporate Services Limited from April, 1968 to November, 1971 and employed by Green Coast Developments Limited from November, 1971 to April 30, 1972. Prior thereto was an inventory controller.

REMUNERATION OF MANAGEMENT

During the last financial year ended December 31, 1971, Directors and Senior Officers of the Corporation as a group were paid a total of \$1,175.00. Directors of the Corporation are entitled to be paid a fee of \$50.00 for each meeting of the Board of Directors and Shareholders attended. It is not proposed that the officers of the Corporation be paid as such. Mr. Dennis will be paid an honorarium in the amount of \$25.00 per month for providing the Corporation with the benefit of his field experience and Robert Brown, the Secretary-Treasurer of the Corporation will be paid \$50.00 for each meeting of Directors and Shareholders attended.

Robert Brown Corporate Services Limited, 7th Floor, 366 Bay Street, Toronto, Ontario, have agreed to provide the Corporation with routine secretarial administrative services and head office facilities for a fee of \$350.00 per month during the pleasure of the Board of Directors.

During the last financial year ended December 31, 1971, the Corporation paid to Robert Brown Corporate Services Limited the sum of \$4,800.00 on account of services as set forth above and an additional \$200.00 on account of special services rendered in connection with the annual and general meeting of Shareholders of the Corporation.

Robert Brown the Secretary-Treasurer of the Corporation is the principal shareholder of Robert Brown Corporate Services Limited.

MATERIAL CONTRACTS

The following are the only material contracts entered into by the Corporation within the past two years:

1. Underwriting agreement made between the Corporation and Rosmar Corporation Limited dated January 14, 1971, whereunder Rosmar underwrote 200,000 shares of the Corporation at the price of 15 cents per share;
2. Underwriting Agreement made between the Corporation and W. D. Latimer Co. Limited dated June 12, 1972. See "Offering";



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Report on
Turnbull Township Claim Group
Porcupine Mining Division, Ontario
for
Ameranium Mines Limited

SUMMARY

Ameranium holds a group of twenty claims on the western boundary of Turnbull Township. Here gabbro rocks have later been intruded by granites. In the immediate area, disseminated chalcopyrite and sphalerite have been reported in quartz veins in these gabbro rocks. A resistivity survey was run in order to outline rock units. A high resistivity core was outlined in the gabbro.

It is recommended that the property be drilled when the results of the induced polarization survey are available.



Report on
Turnbull Township Claim Group
Porcupine Mining Division, Ontario
for
Ameranium Mines Limited

I. INTRODUCTION

A group of twenty claims are located in the west-central portion of Turnbull Township. Disseminated copper mineralization has been reported within these gabbro rocks.

II. PROPERTY, LOCATION AND ACCESS

The property comprises twenty contiguous unpatented mining claims in the west-central portion of Turnbull Township, Porcupine Mining Division as follows:

P 320137 - 49 inclusive	13 claims
P 320246 - 52 inclusive	7 claims

Total 20 claims (800 acres approx.)

The property is located about 18 miles west of Timmins and is accessible by bush road southwest from Kamis Kostla Lake.

III. GENERAL GEOLOGY

The rocks in the area are generally Keewatin

greenstone, volcanics and sediments. Gabbros have been intruded into a large area of Turnbull, Robb and Massey Townships. Following this, granites cut these gabbros. The group is underlain by gabbros and later granites.

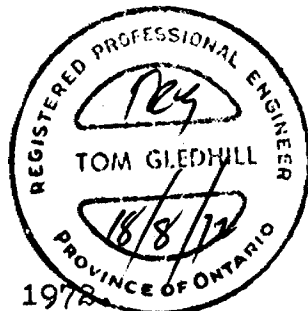
IV. ECONOMIC GEOLOGY

The records show the only reference to base metal mineralization in the area is disseminated chalcopyrite and sphalerite in a quartz vein with the gabbro. The location of this mineralization is reported to be in the general area of the claim group. The gabbro rocks in this area have a potential for massive or disseminated copper or nickel.

V. CONCLUSIONS AND RECOMMENDATIONS

The gabbro rocks in the area of the claim group are reported to contain disseminated chalcopyrite and sphalerite. The corners of the property are areas of low resistivity.

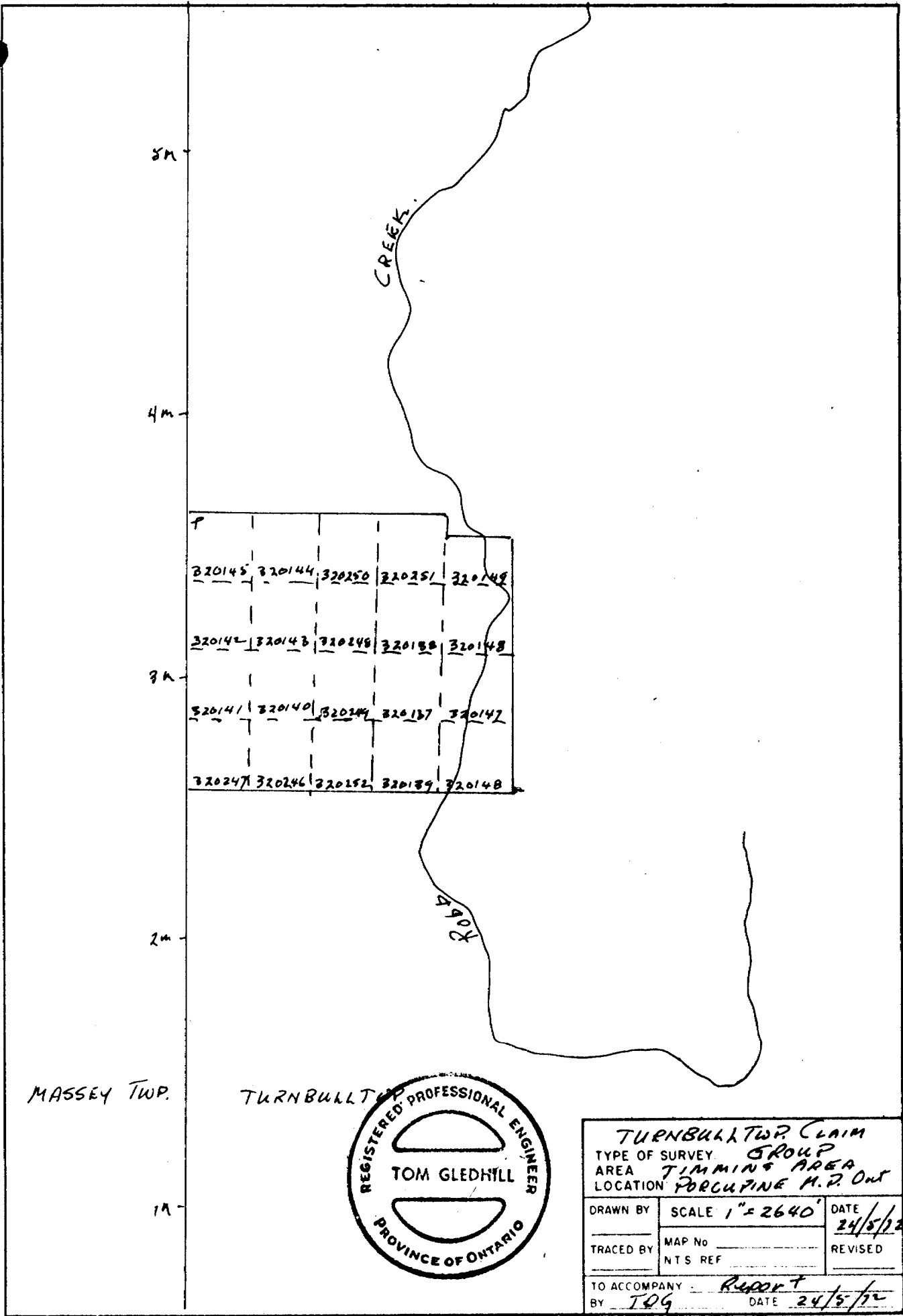
It is recommended that the property should be diamond drilled when the induced polarization results are available.



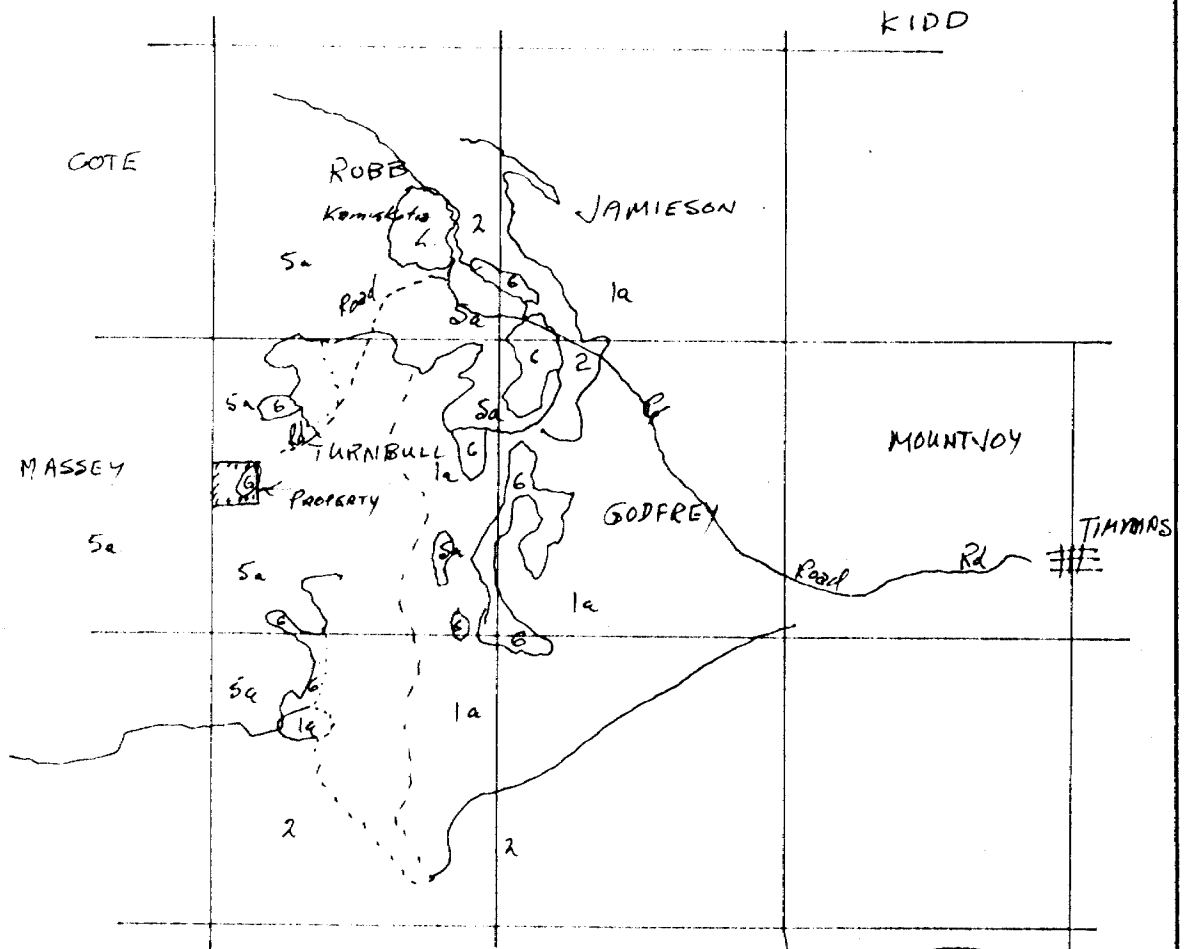
Respectfully submitted,

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

August 18, 1978



TURNBULL TWP. CLAIM		
TYPE OF SURVEY GROUP		
AREA TIMMIN'S AREA		
LOCATION PORCUPINE H.P. ONT		
DRAWN BY	SCALE 1" = 2640'	DATE 24/5/22
TRACED BY	MAP No	REVISED
	NTS REF	
TO ACCOMPANY	REPORT	
BY T.G.	DATE 24/5/22	



From ODM 2046

TURNBULL CLAIM GROUP		
TYPE OF SURVEY GEOLOGY		
AREA TIMMINS AREA		
LOCATION TORCUPINE N.P. ONTARIO		
DRAWN BY	SCALE 1" = 4 miles	DATE 24/5/12
TRACED BY	MAP No	REVISED
	NTS REF	
TO ACCOMPANY Report		
BY T.R.G.	DATE 24/5/12	



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Report on
 Turnbull Township Claim Group
 Porcupine Mining Division, Ontario
 for
 Ameranium Mines Limited

SUMMARY

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In the immediate area disseminated chalcopyrite and sphalerite have been reported in quartz veins in these

gabbro rocks. *A resistivity survey was run in order to outline rock units. A high resistivity core was outlined in the gabbro.*

It is recommended that the property be drilled when the results of the induced polarization survey are available
~~surveyed with induced polarization in order to locate disseminated or massive sulphides within the gabbro.~~

~~A budget for this work would be \$5,000. If anomalies are located, diamond drilling would follow.~~

AUG. 18/72

Report on
Turnbull Township Claim Group
Porcupine Mining Division, Ontario
for
Ameranium Mines Limited

I. INTRODUCTION

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Total 20 claims (800 acres approx.)

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III. GENERAL GEOLOGY

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The records show the only reference to base-metal mineralization in the area is disseminated chalcopyrite and sphalerite in a quartz vein with the gabbro. The location of this mineralization is reported to be in the general area of the claim group. The gabbro rocks in this area have a potential for massive or disseminated copper or nickel.

V. CONCLUSIONS AND RECOMMENDATIONS

The gabbro rocks in the area of the claim group are reported to contain disseminated chalcopyrite and sphalerite. *The corners of the property are areas of low resistivity*

It is recommended that the property should be ~~surveyed by induced polarization in search for disseminated or massive sulphides. A budget for this programme would~~ be *diamond drilled when the induced polarization results are available.*

~~(1) Line cutting 20 miles @ \$90/mile \$1,800.00
400 foot lines, 100 foot stations~~

~~(2) Induced polarization survey \$2,200.00~~

~~Total \$5,000.00~~

~~If there are anomalies resulting from this
work, diamond drilling will be required to test them.~~

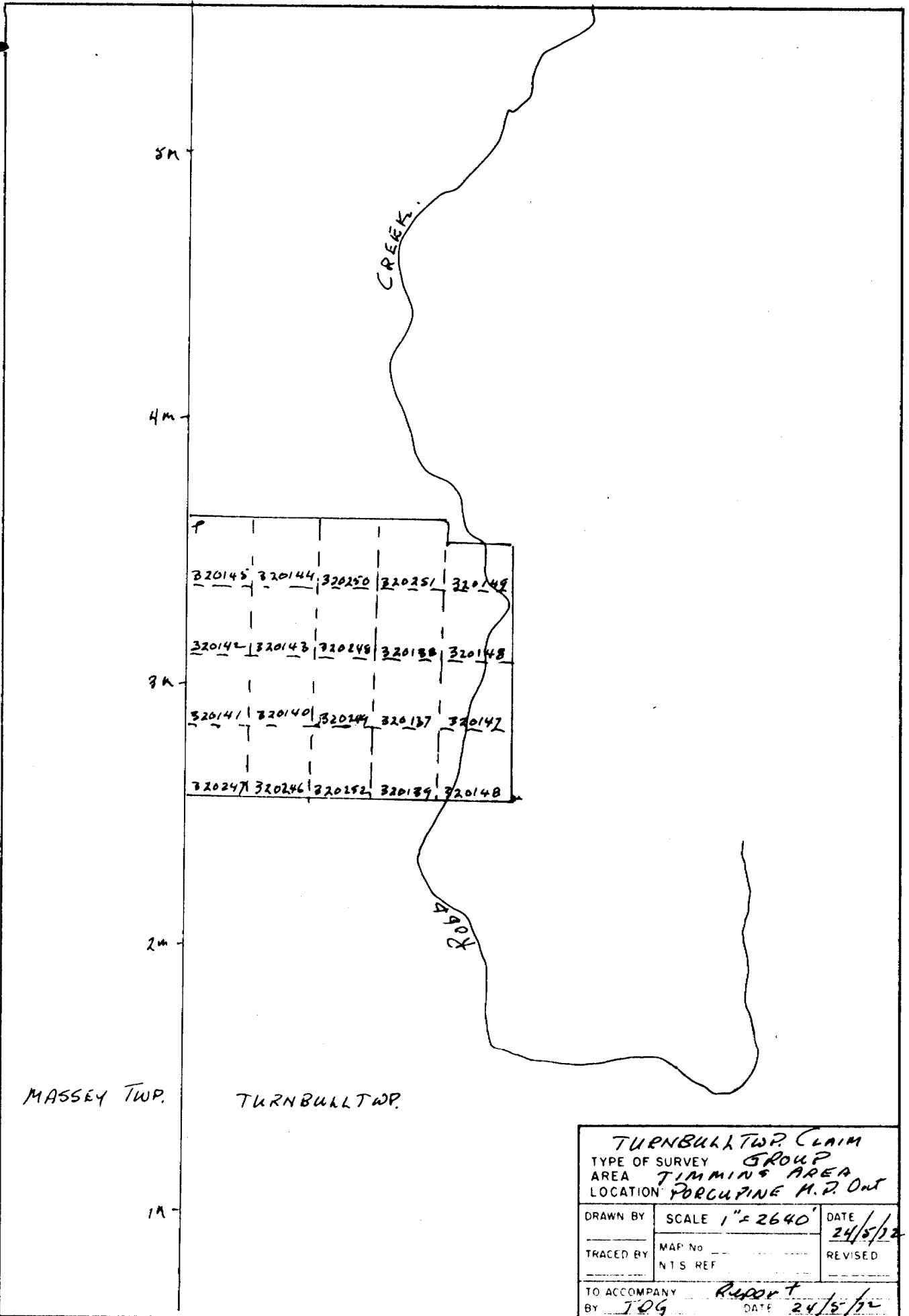
Respectfully submitted,

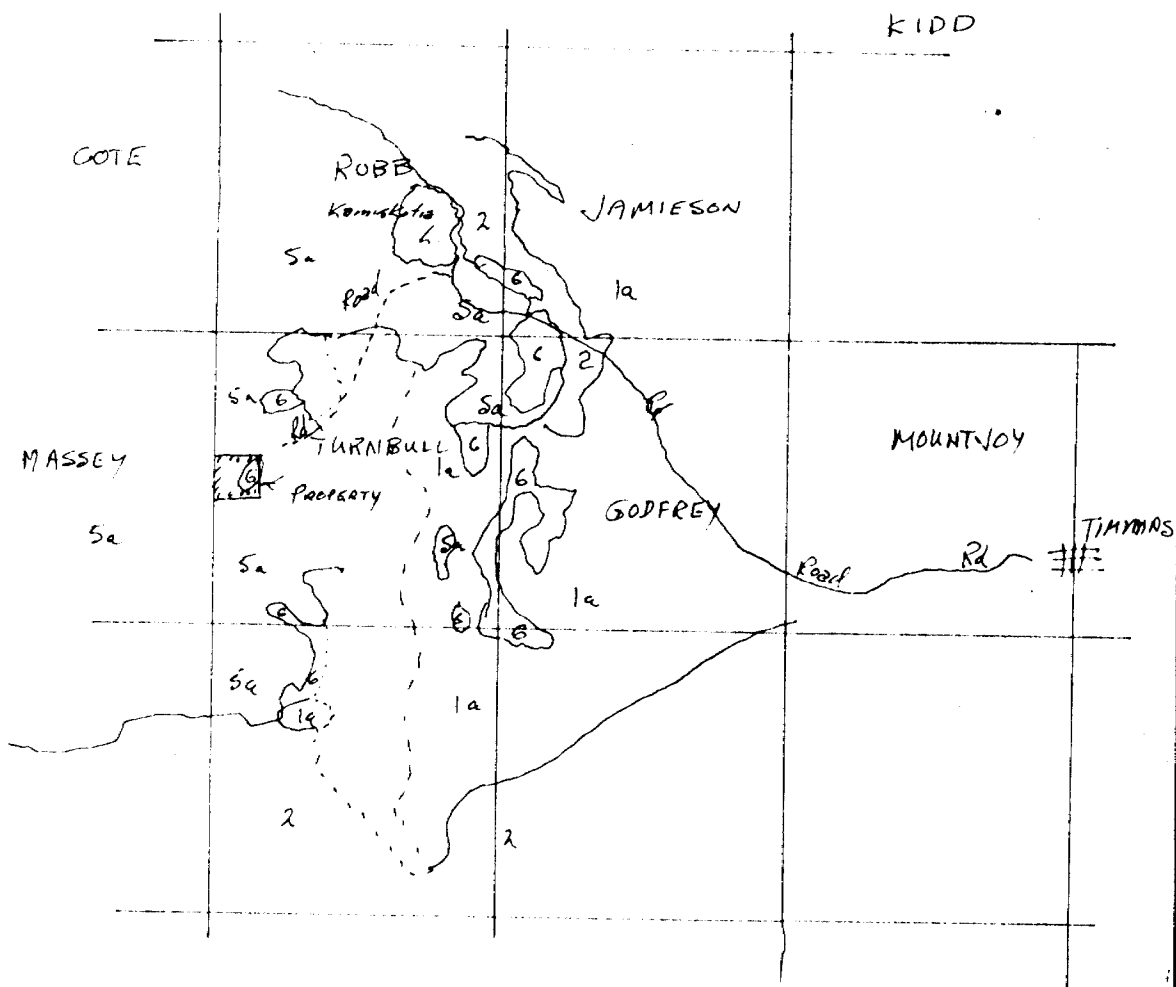
Tom Gledhill

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

Aug 18/1972

~~May 24, 1972.~~





FROM ODM 2046

TURNBULL CLAIM GROUP		
TYPE OF SURVEY GEOLOGY		
AREA TIMMINS AREA		
LOCATION TORQUINE N.P. ONTARIO		
DRAWN BY	SCALE 1" = 4 mile	DATE 24/5/72
TRACED BY	MAP No	REVISED
	NTS REF	
TO ACCOMPANY <u>REPORT</u>		
BY <u>LRG</u>	DATE	<u>24/5/72</u>



42A05NE0119 2.992 TURNBULL

040

Report on
Induced Polarization Survey
Turnbull Township Claim Group
Porcupine Mining Division, Ontario
for
Ameranium Mines Limited

SUMMARY

Ameranium holds a group of twenty claims on the western boundary of Turnbull Township. Here gabbro rocks have later been intruded by granites. In the immediate area, disseminated chalcopyrite and sphalerite have been reported in quartz veins in these gabbro rocks. An induced polarization survey was run in order to outline rock units. A high resistivity core was outlined in the gabbro along with two anomalous I.P. zones lying north of the sulphide showing.

It is recommended that the two anomalies be drilled. The cost of this drilling would be \$6,000. Additional funds would be required if the drill results are encouraging.

Tom Gledhill



SEPT. 20, 1972

Report on
Induced Polarization Survey
Turnbull Township Claim Group
Porcupine Mining Division, Ontario
for
Ameranium Mines Limited

I. INTRODUCTION

A group of twenty claims are located in the west-central portion of Turnbull Township. Disseminated copper mineralization has been reported within these gabbro rocks.

II. PROPERTY, LOCATION AND ACCESS

The property comprises twenty contiguous unpatented mining claims in the west-central portion of Turnbull Township, Porcupine Mining Division as follows:

P 320137 - 49 inclusive 13 claims
P 320246 - 52 inclusive 7 claims

Total 20 claims (800 acres approx.)

The property is located about 18 miles west of Timmins and is accessible by bush road southwest from Kamiskotia Lake.

III. GENERAL GEOLOGY

The rocks in the area are generally Keewatin

greenstone, volcanics and sediments. Gabbros have been intruded into a large area of Turnbull, Robb and Massey Townships. Following this, granites cut these gabbros. The group is underlain by gabbros and later granites.

IV. ECONOMIC GEOLOGY

The records show the only reference to base metal mineralization in the area is disseminated chalcopyrite and sphalerite in a quartz vein with the gabbro. The location of this mineralization is reported to be in the general area of the claim group. The gabbro rocks in this area have a potential for massive or disseminated copper or nickel.

V. INDUCED POLARIZATION SURVEY

The dipole-dipole survey was run along north-south grid lines spaced at 400 foot intervals. The entire property was covered and is shown on the accompanying plan. The electrode separation was 300 feet and three dipole receiver readings were taken from each transmitter dipole.

The psuedo profiles are fold-outs in the back of the report and the anomalous zones are marked as three grades: definite (solid), probable (vertical bars) and possible (diagonal bars). These are also shown on

the plan map (scale 1" = 400'). The frequencies employed were ^{0.3}0.03 and 5.0 c.p.s. A brief explanation of the operation and understanding of I.P. is included in the appendix. The equipment used was a McPhar Model 654 multi frequency I.P. unit.

Two zones were outlined. The strongest response was on line 20E. The area of the anomalies is overburdened. Zone B lies just north of some trenches and old drill holes but has not been tested.

VI. CONCLUSIONS AND RECOMMENDATIONS

Two anomalous zones A and B were outlined in the area assumed to be gabbro.

It is recommended that a drill hole be employed to test each of the zones.

A budget for this initial test would be 500 feet of drilling (2 holes) at an all inclusive price of \$12/foot

	<u>\$6,000.00</u>
Total	\$6,000.00

Respectfully submitted,

September 20



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

Induced Polarization

Theory and Method of Survey

Induced Polarization (I.P.) surveys refer to a measurement of the blocking or back voltage - polarization of metallic conductors in a medium of ionic solution conduction.

This electro-chemical relationship occurs whenever metallic-type minerals such as base metal sulphides have an electrical current pass through them. In ordinary resistivity surveys, the current travels by conduction through the ions present in the water content of the ground. This is possible because almost all of the minerals have a much higher resistivity than the aqueous portion of the ground. A group of "metallic" type minerals have specific resistivities much lower than the ground water.

The I.P. effect occurs at the interfaces, where the mode of conduction from ionic in solutions to electronic in the metallic minerals is present in the rock.

This blocking action or induced polarization which depends on the energies necessary to allow ions to give up or receive electrons from the metallic surface, increases with the time that a direct current is allowed to pass through the rock. Thus as ions accumulate against the

metallic interface the resistance to current flow increases. In time these excess ions reduce the amount of current flow through the metallic particle. This phenomena is repeated at each of the infinite number of solution-metal interfaces present in the metallic rich rock.

When the direct current voltage that is used to cause a direct current is cut off, then the charged ions forming the polarization return to their normal position. This movement of charge creates a small, but measurable current flow on the surface of the ground.

Using an alternating current source, the effective resistivity of the system will change with the frequency of the switching.

The recorded values of the per cent frequency effect or F.E. are a measurement of the polarization in the rock mass. An often more useful quantity is the metal factor (M.F.) which is obtained by normalizing the F.E. for varying resistivities.

I.P. is used in the search for disseminated metallic sulphides of less than 20% by volume.

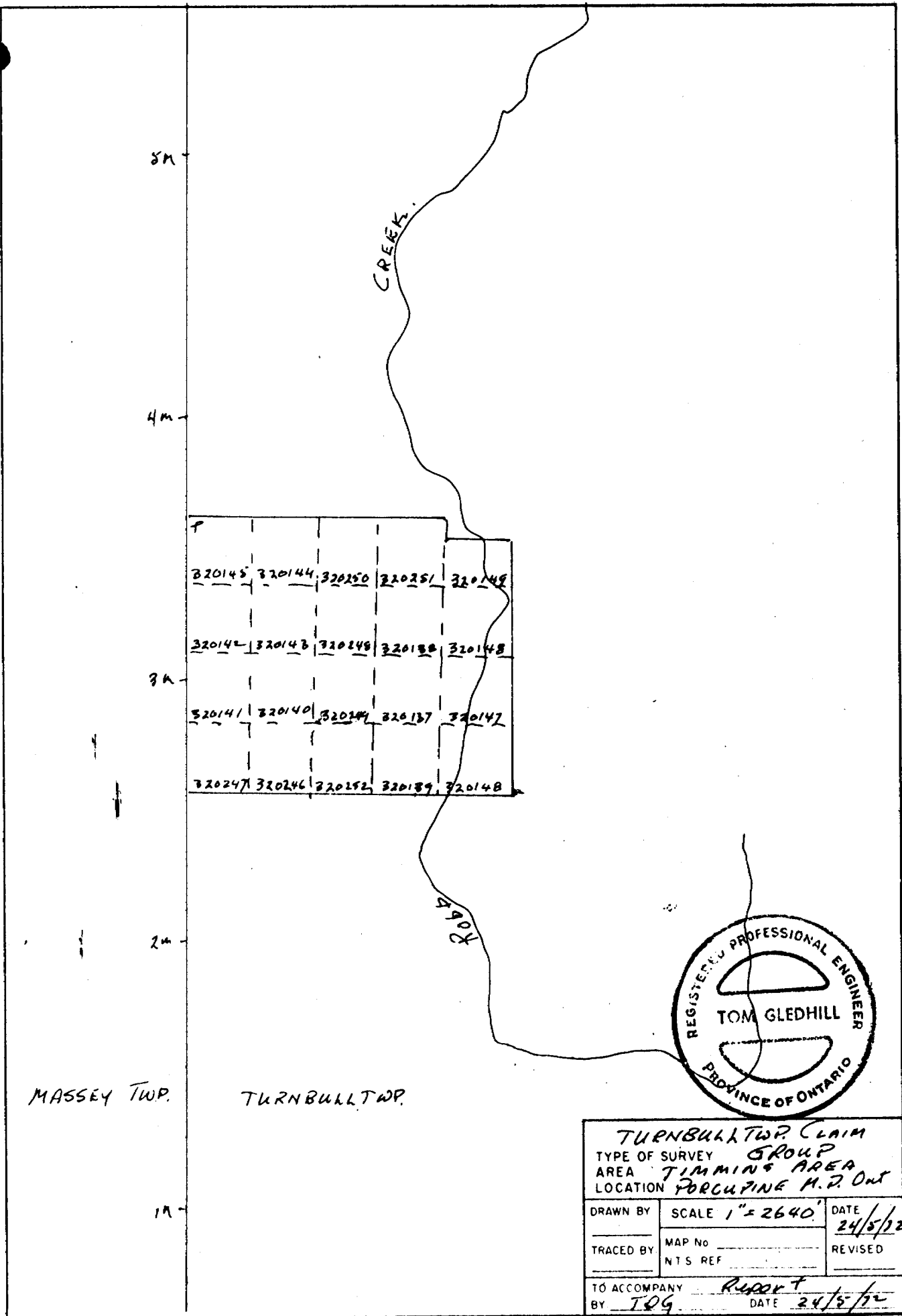
Field procedure in most I.P. surveys is as follows.

Current is applied to the ground at two points x feet apart. The potentials are measured at two other

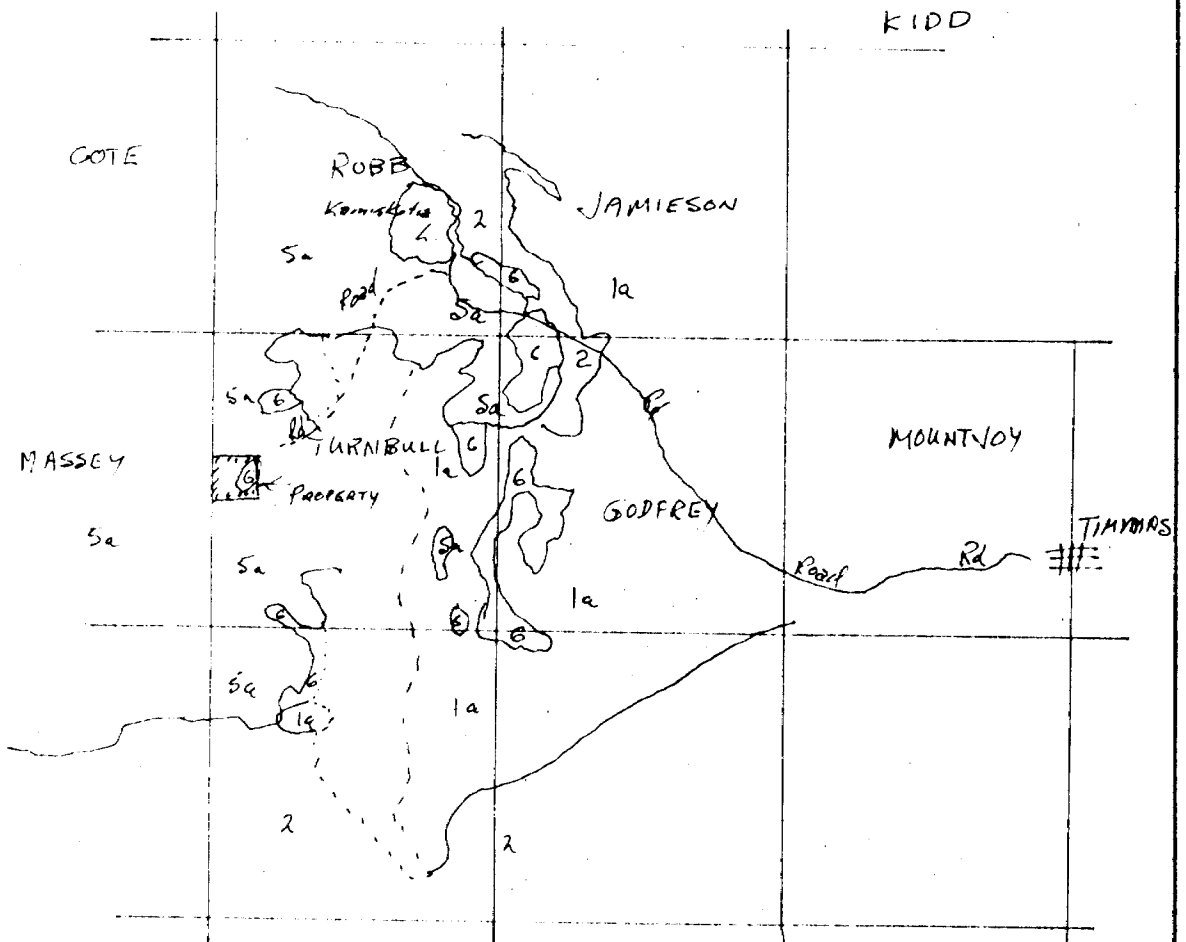
points x feet apart in line with the current electrodes and the separation of the near current and potential electrodes is nx where $n=1,2,3$, etc.

The measurements are made along a picket line with constant distance nx feet employed between the nearest current and potential electrodes and several values of n may be employed ($n=1,2,3$, etc.)

In plotting the results, the values of the apparent resistivity, metal factor, the percentage frequency effect measured for each set of electrodes are plotted at the intersection of two imaginary lines drawn from the centre of the current and potential electrodes at 45° to the surface to meet at a mid point below the electrode array. Each of the three quantities are plotted in upright pseudo-sections.



320145	320144	320250	320251	320149
320142	320143	320249	320150	320148
320141	320140	320248	320137	320147
320247	320246	320252	320139	320148



From ODM 2046

TURNBULL CLAIM GROUP
 TYPE OF SURVEY GEOLOGY
 AREA TIMMINS AREA
 LOCATION TORQUINE N.P. ONTARIO

DRAWN BY	SCALE 1" = 4 mile	DATE 24/5/12
TRACED BY	MAP No _____ NTS REF _____	REVISED _____

TO ACCOMPANY Report
 BY T.G. DATE 24/5/12

Induced Polarization

Theory and Method of Survey

Induced Polarization (I.P.) surveys refer to a measurement of the blocking or back voltage - polarization of metallic conductors in a medium of ionic solution conduction.

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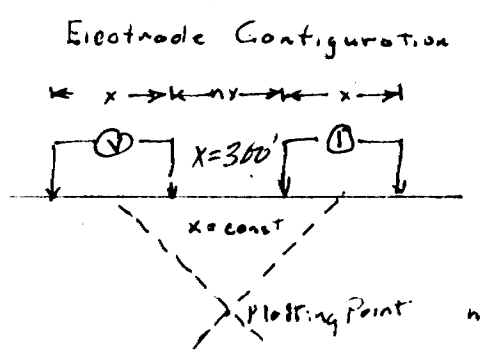
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Frequency: 5 c.p.s and 0.3 c.p.s.

Province: Ont.

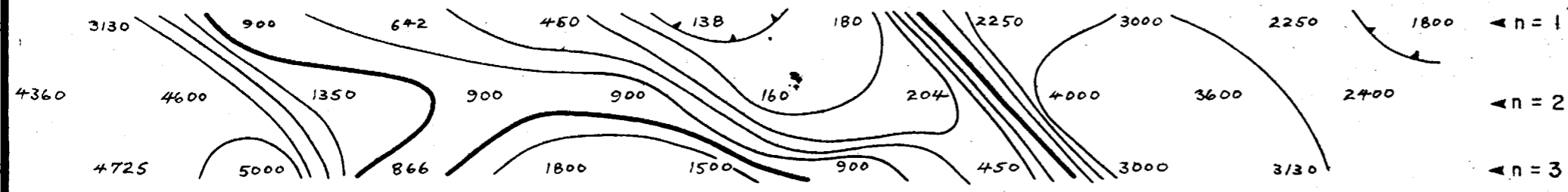
Township: Furnhill

Claims: P 320137-49 and P 320246-52



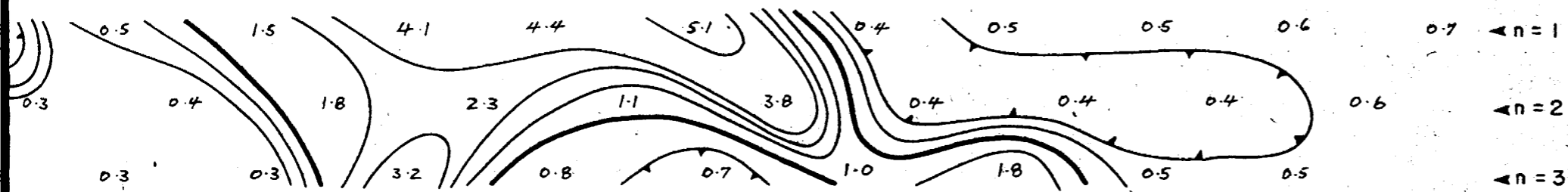
INDUCED POLARIZATION
AND
RESISTIVITY SURVEY
for
AMERANIUM MINES LIMITED
TURNBULL TOWNSHIP
PORCUPINE M.D. ONTARIO

00 6N 12N 18N 24N 30N



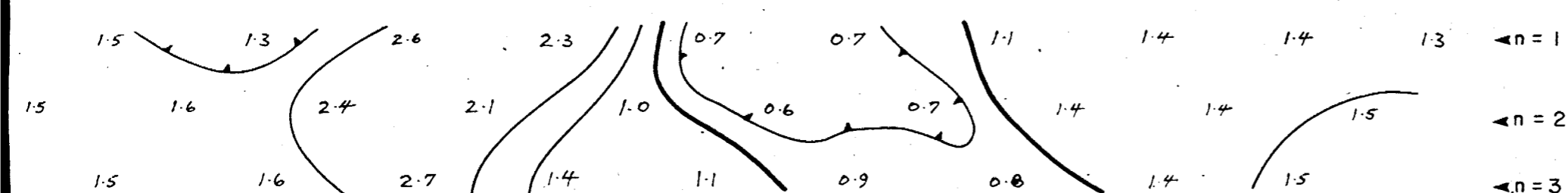
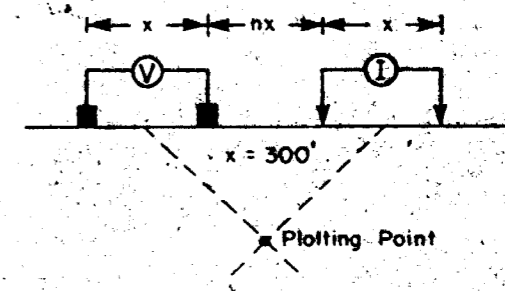
Apparent Resistivity
(ohm feet)

LINE NO. 0 E



Metal Factor

ELECTRODE CONFIGURATION



Frequency Effect
(%)

Tom Sedgwick

SCALE 1" = 300 feet, DATE June/July 1972
Contours at logarithmic multiples of
10, 15, 20, 30, 50, 75 & 100

LINE NO. 0 E

185

125

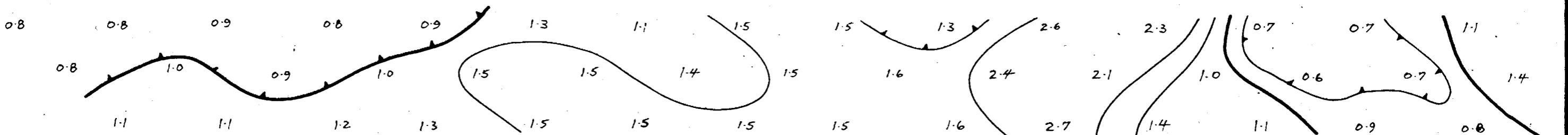
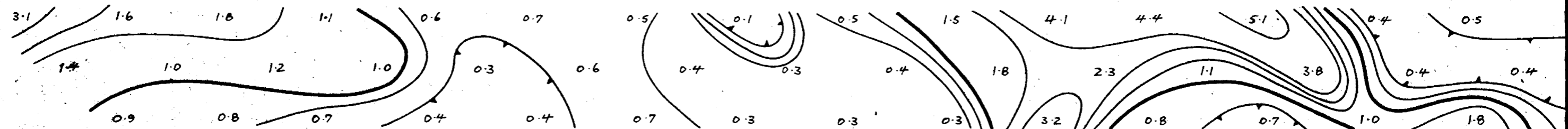
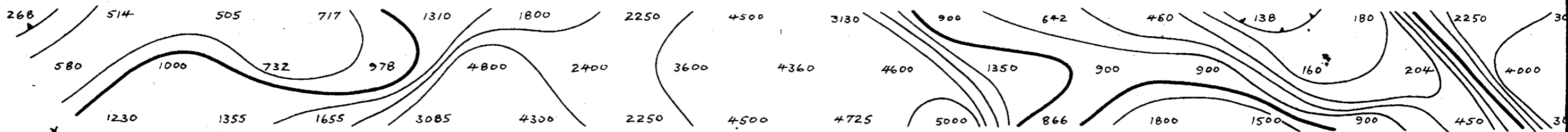
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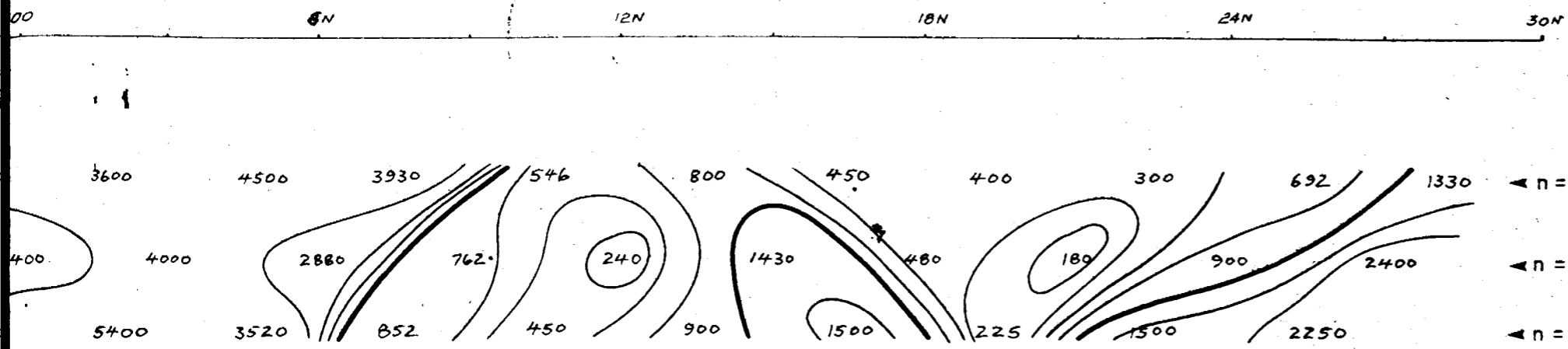
6N

12N

18N

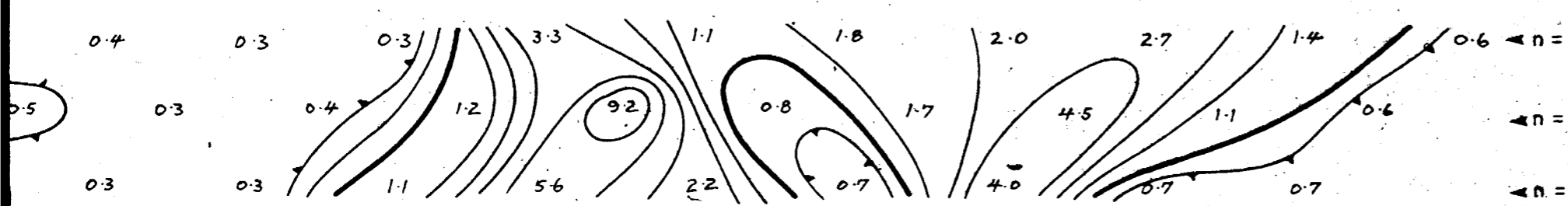


INDUCED POLARIZATION AND
RESISTIVITY SURVEY
for
AMERANIUM MINES LIMITED
TURNBULL TOWNSHIP
PORCUPINE M.D. ONTARIO



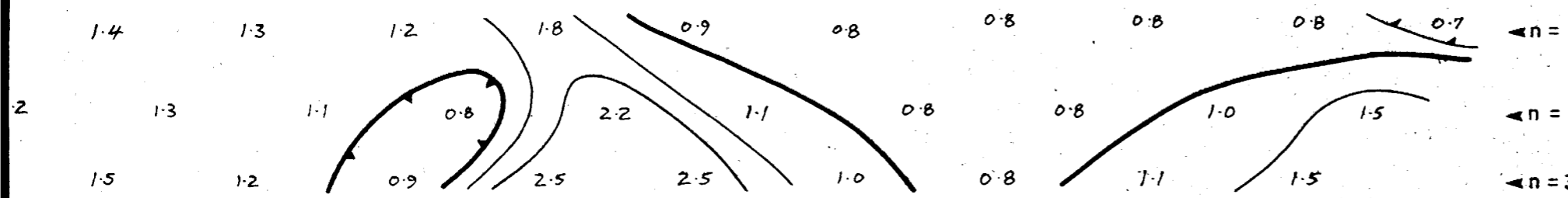
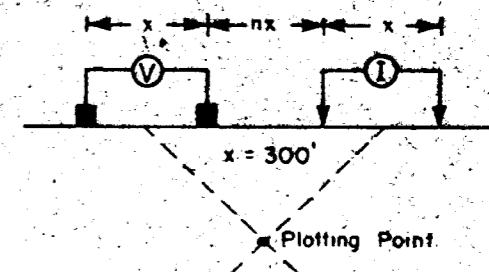
Apparent Resistivity
(ohm feet)

LINE NO. 4 E



Metal Factor

ELECTRODE CONFIGURATION

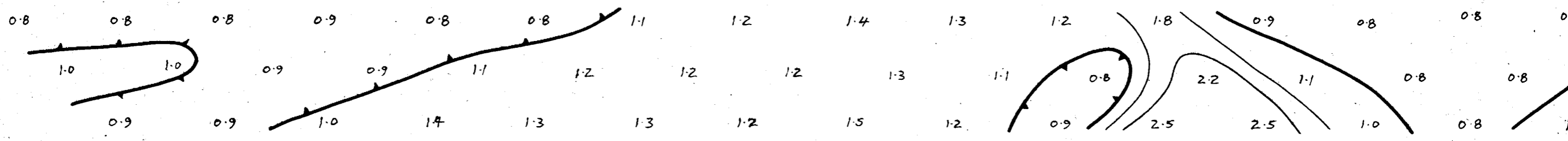
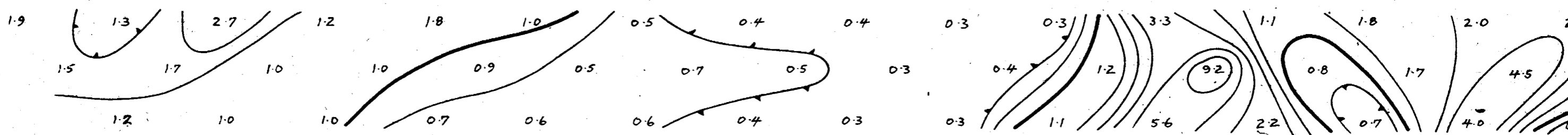
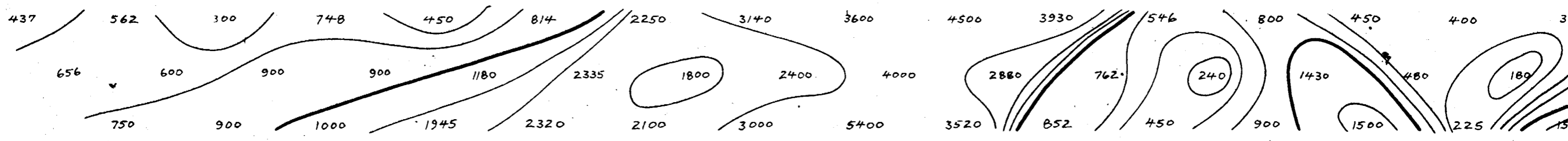


Frequency Effect
(%)

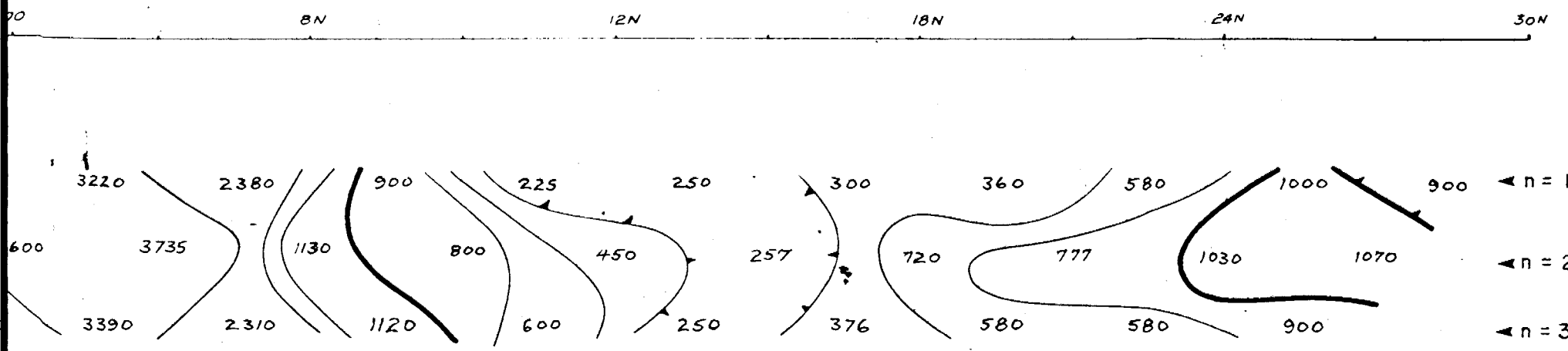
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Contours at logarithmic multiples of
10, 15, 20, 30, 50, 75 & 100

LINE NO. 4 E

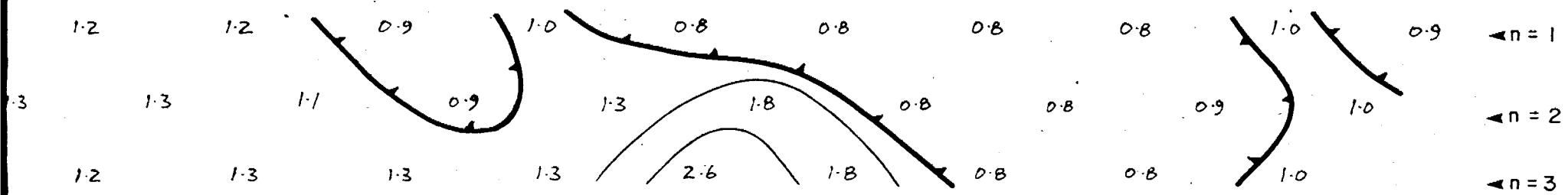
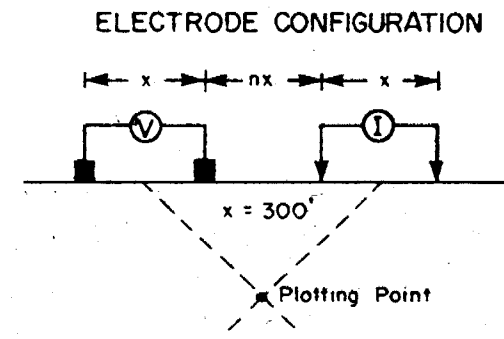
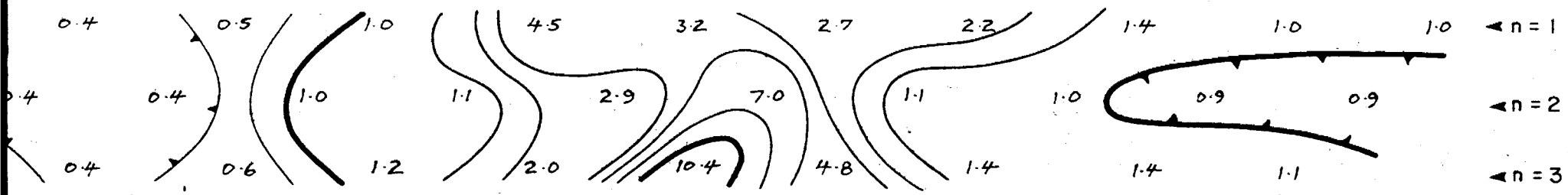
18S 12S 6S 00 6N 12N 18N



**INDUCED POLARIZATION
AND
RESISTIVITY SURVEY
for
AMERANIUM MINES LIMITED
TURNBULL TOWNSHIP
PORCUPINE M.D. ONTARIO**



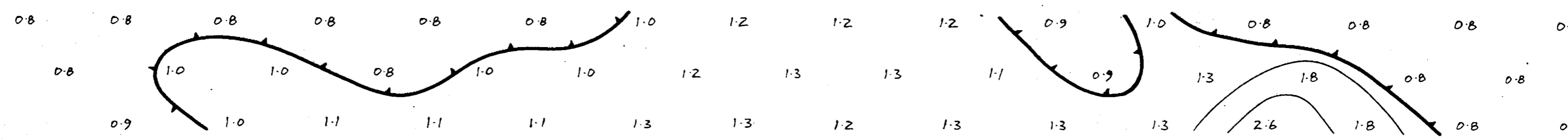
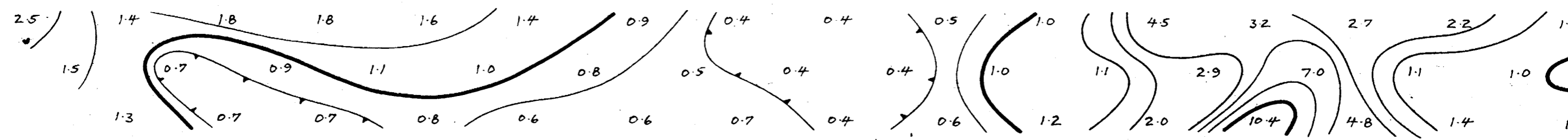
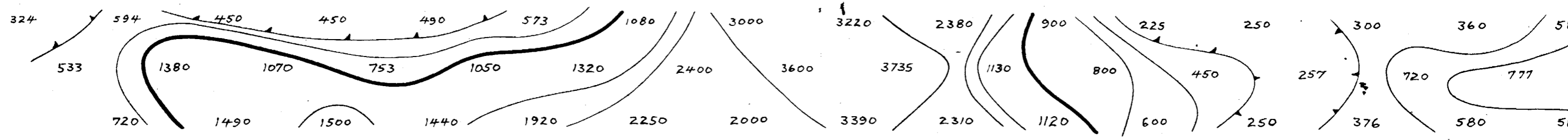
LINE NO. 8 E



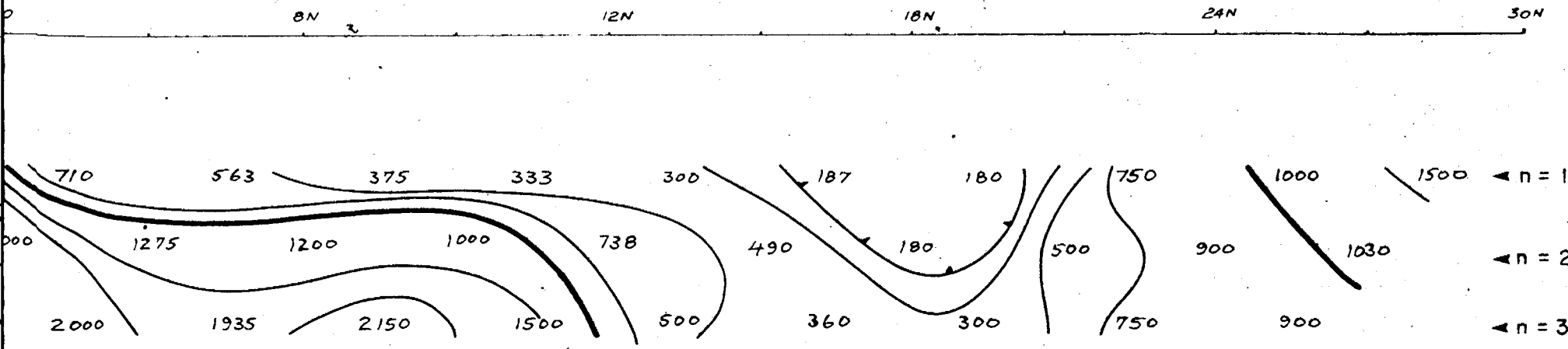
SCALE 1" = 300 feet, DATE June/July 1972
Contours at logarithmic multiples of
10, 15, 20, 30, 50, 75 & 100

LINE NO. 8 E

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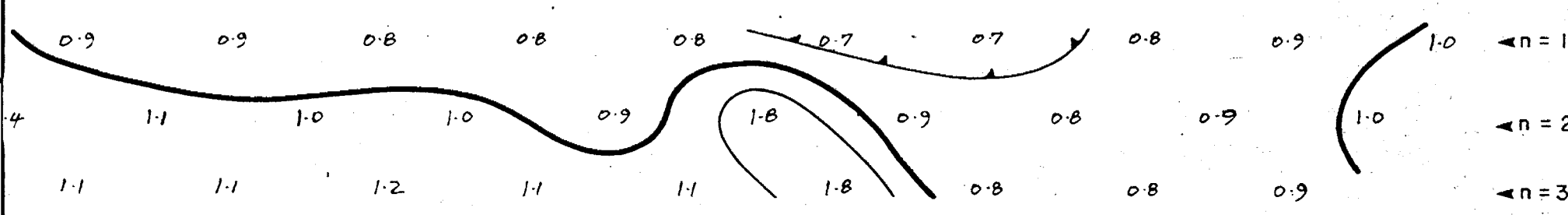
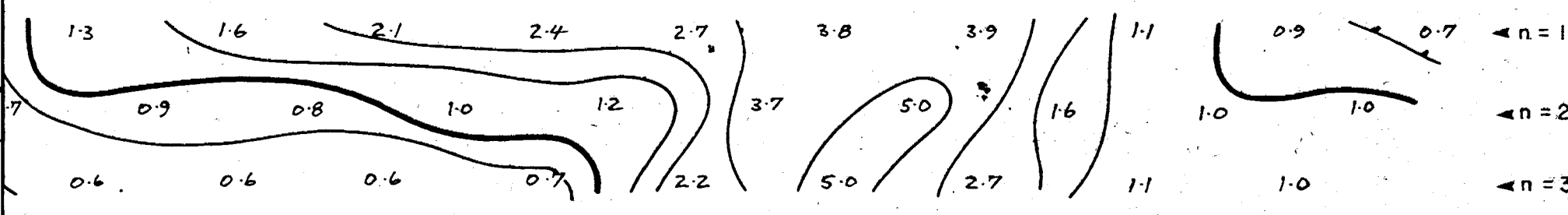
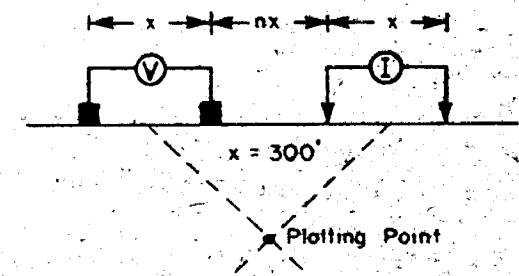


INDUCED POLARIZATION
AND
RESISTIVITY SURVEY
for
AMERANIUM MINES LIMITED
TURNBULL TOWNSHIP
PORCUPINE M.D. ONTARIO



LINE NO. 12 E

ELECTRODE CONFIGURATION



SCALE 1" = 300 feet, DATE June/July 1972
Contours at logarithmic multiples of
10, 15, 20, 30, 50, 75 & 100

LINE NO. 12 E

18S

12S

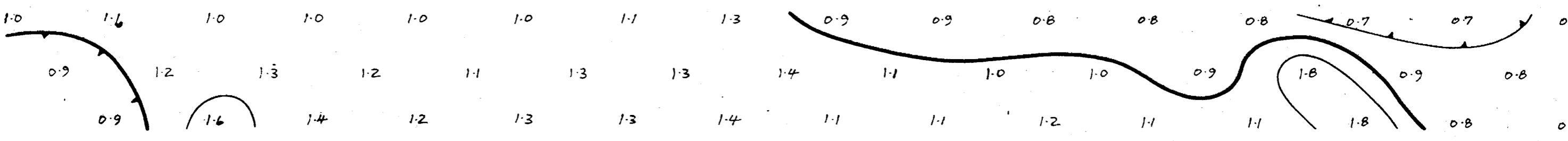
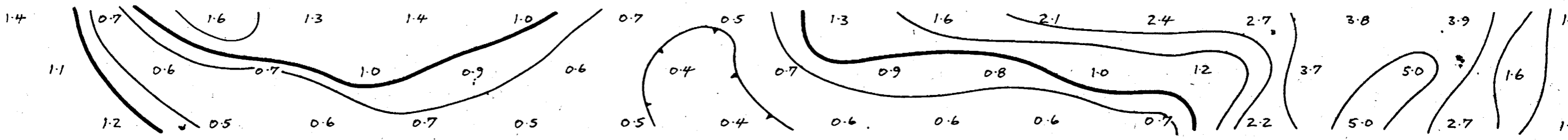
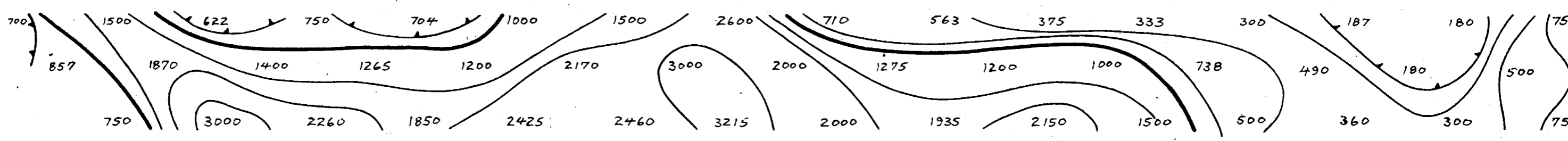
6S

00

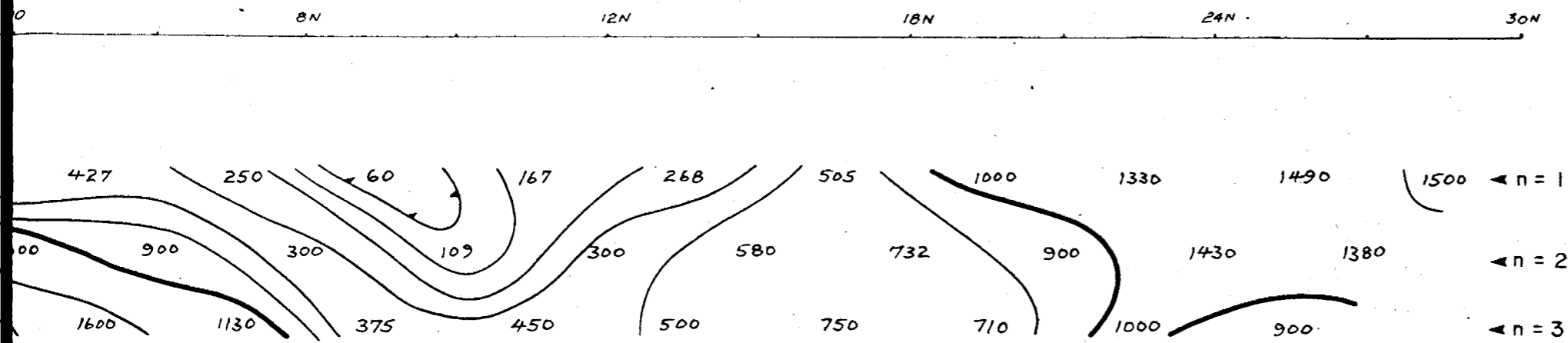
8N

12N

18N



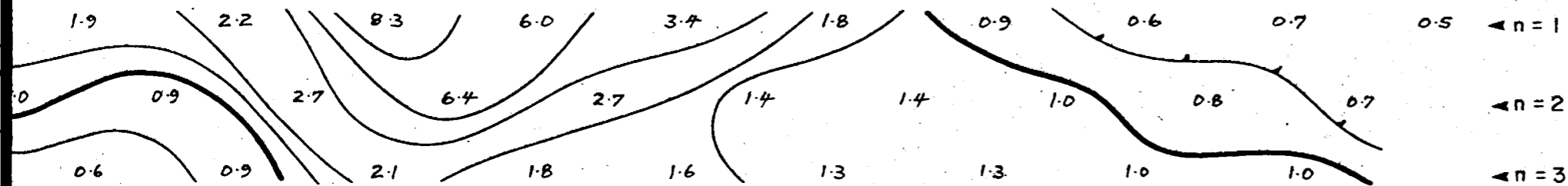
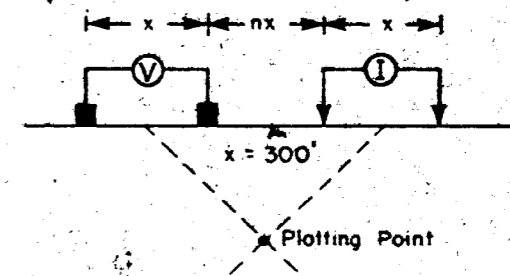
INDUCED POLARIZATION
AND
RESISTIVITY SURVEY
for
AMERANIUM MINES LIMITED
TURNBULL TOWNSHIP
PORCUPINE M.D. ONTARIO



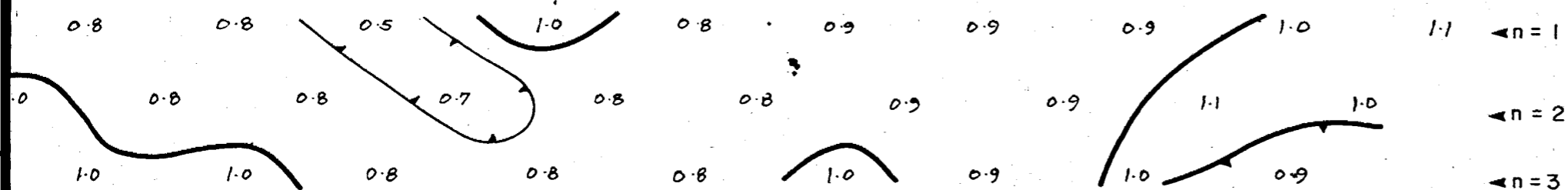
Apparent Resistivity
(ohm feet)

LINE NO. 16 E

ELECTRODE CONFIGURATION



Metal Factor



Frequency Effect
(%)

SCALE 1" = 300 feet, DATE June/July 1972
Contours at logarithmic multiples of
10, 15, 20, 30, 50, 75 & 100

LINE NO. 16 E

185

125

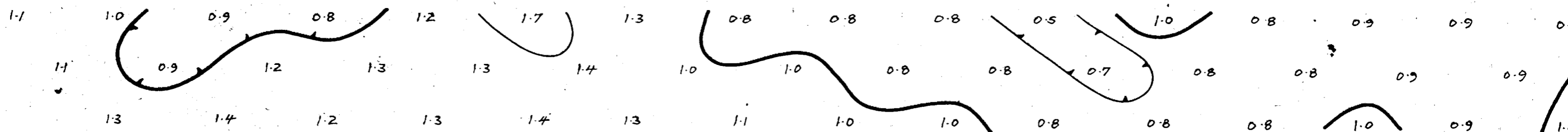
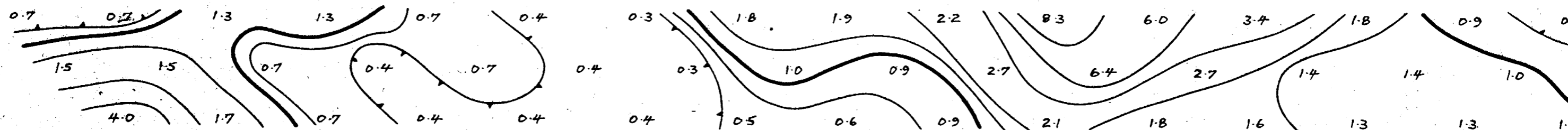
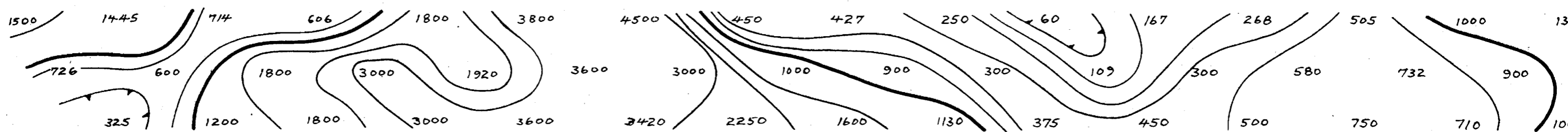
65

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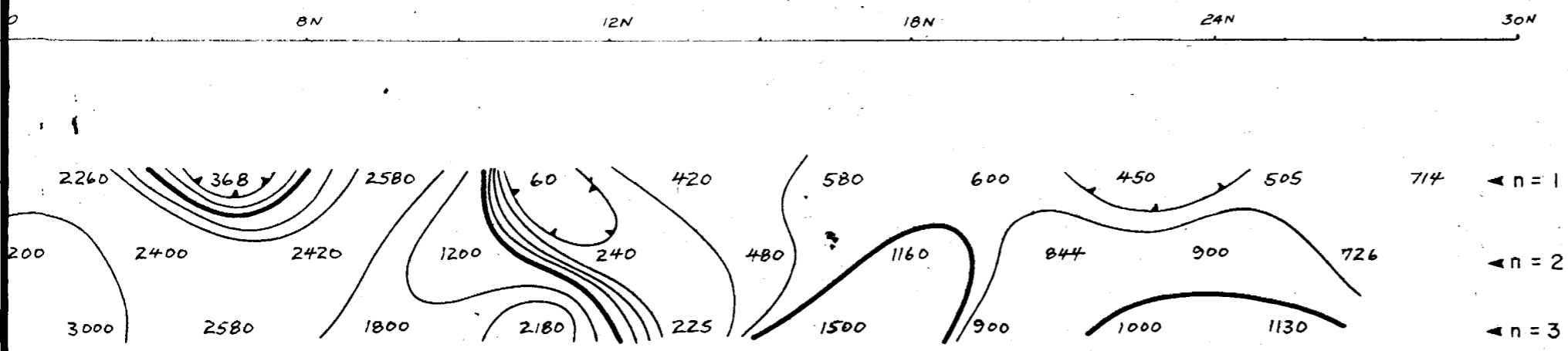
8N

12N

18N

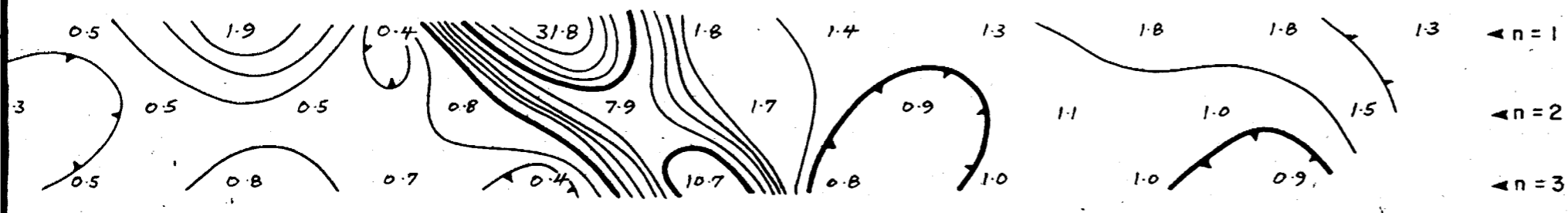


INDUCED POLARIZATION
AND
RESISTIVITY SURVEY
for
AMERANIUM MINES LIMITED
TURNBULL TOWNSHIP
PORCUPINE M.D. ONTARIO

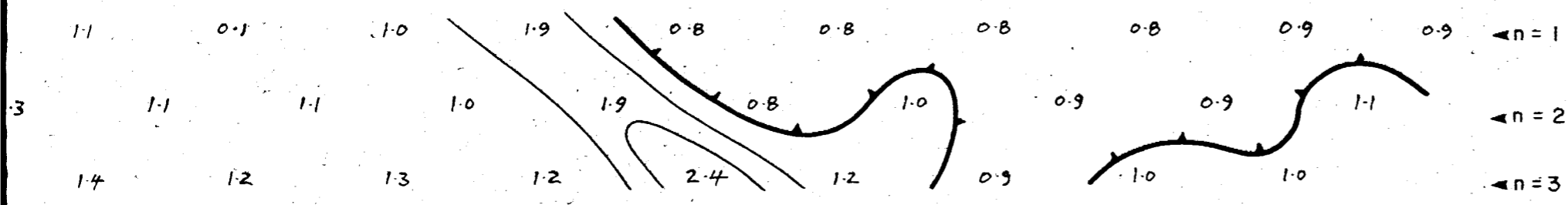
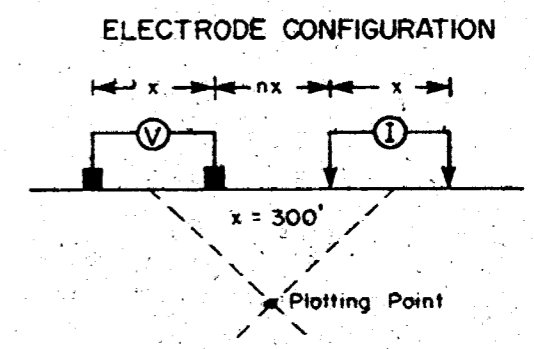


Apparent Resistivity
(ohm feet)

LINE NO. 20E



Metal Factor



Frequency Effect
(%)

SCALE 1" = 300 feet, DATE June/July 1972
 Contours at logarithmic multiples of
 10, 15, 20, 30, 50, 75 & 100

LINE NO. 20E

18S

12S

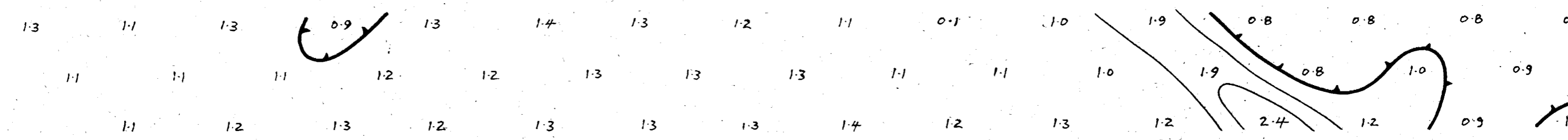
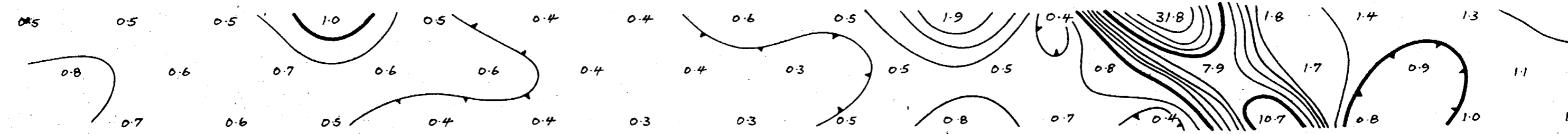
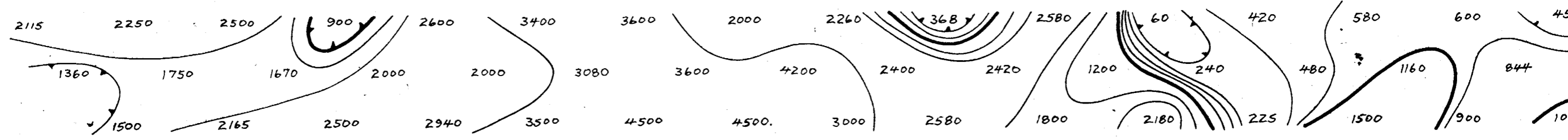
6S

00

8N

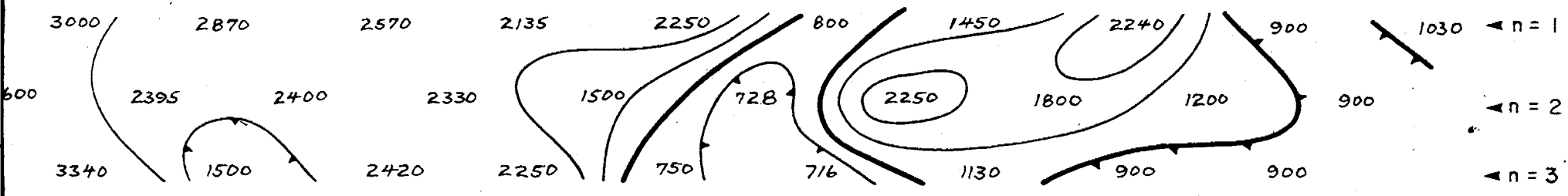
12N

18N



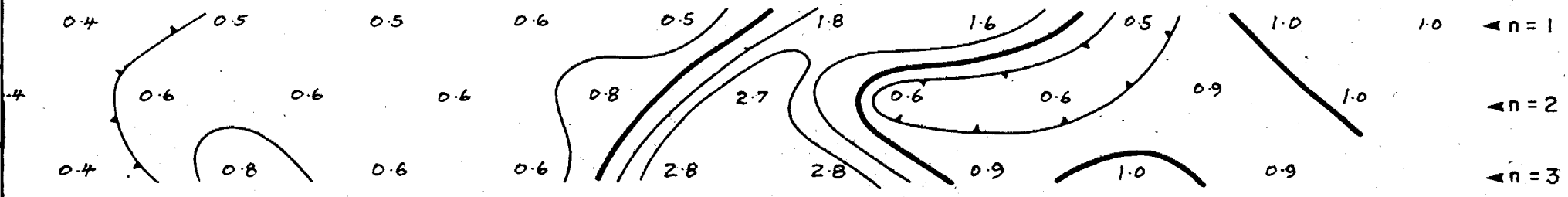
INDUCED POLARIZATION AND RESISTIVITY SURVEY for AMERANIUM MINES LIMITED TURNBULL TOWNSHIP PORCUPINE M.D. ONTARIO

0 8N 12N 18N 24N 30N

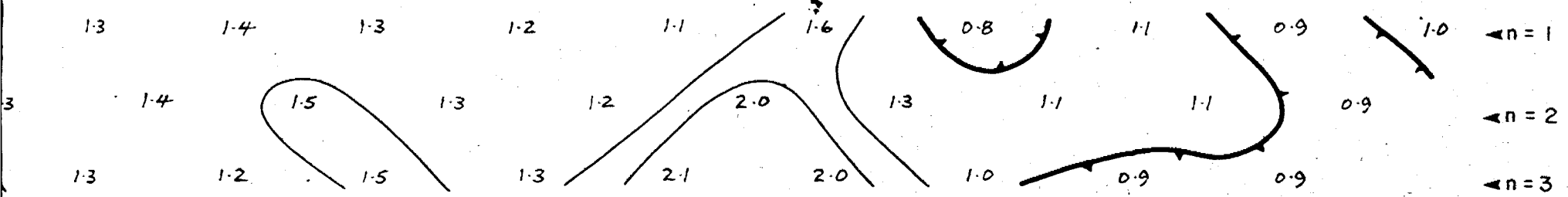
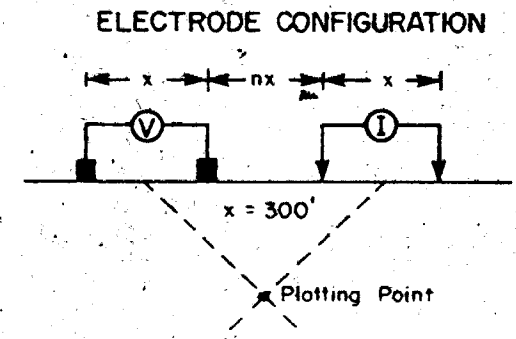


Apparent Resistivity (ohm feet)

LINE NO. 24E



Metal Factor



Frequency Effect (%)

SCALE 1" = 300 feet, DATE June/July 1972
 Contours at logarithmic multiples of 10, 15, 20, 30, 50, 75 & 100

LINE NO. 24E

185

125

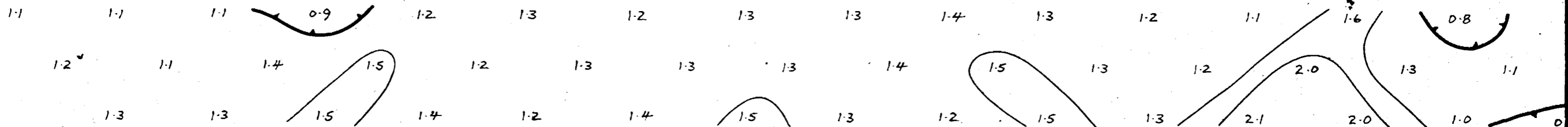
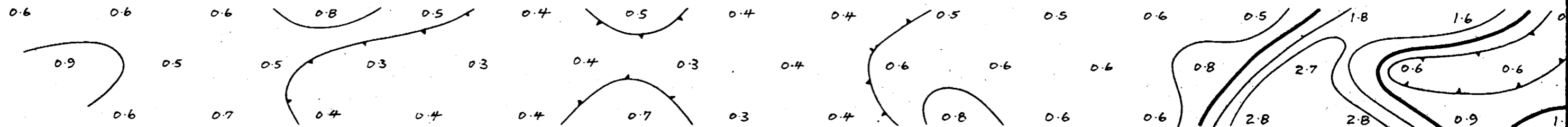
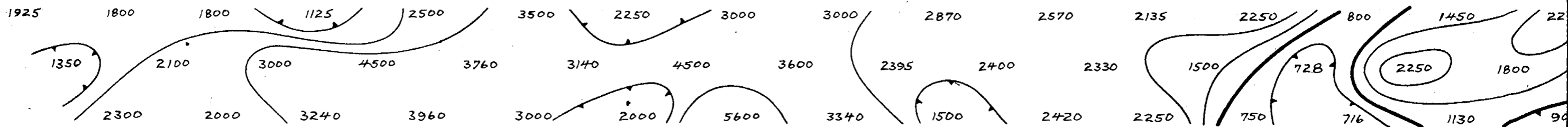
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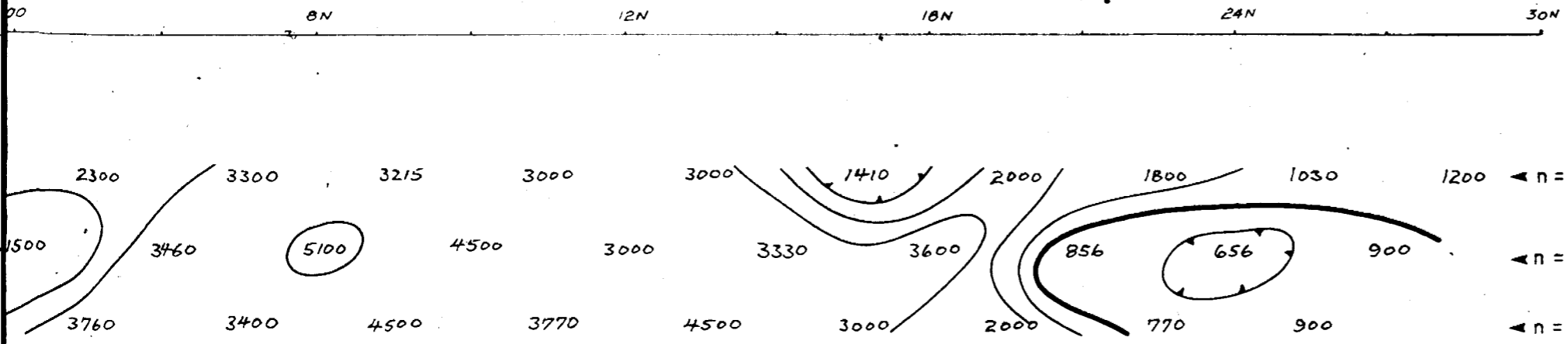
8N

12N

18N



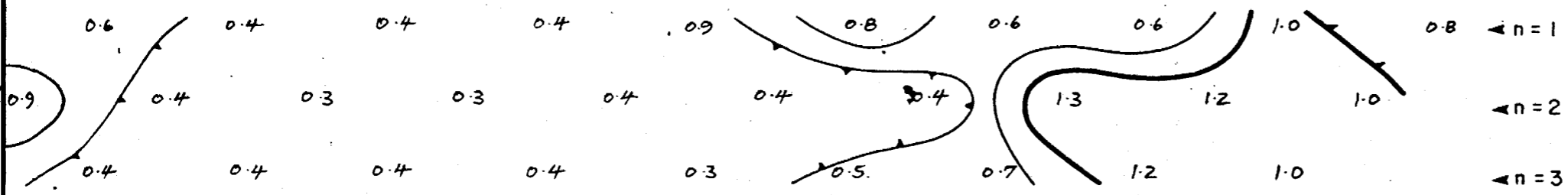
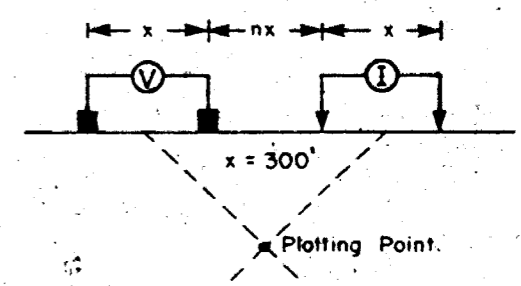
**INDUCED POLARIZATION
AND
RESISTIVITY SURVEY
for
AMERANIUM MINES LIMITED
TURNBULL TOWNSHIP
PORCUPINE M.D. ONTARIO**



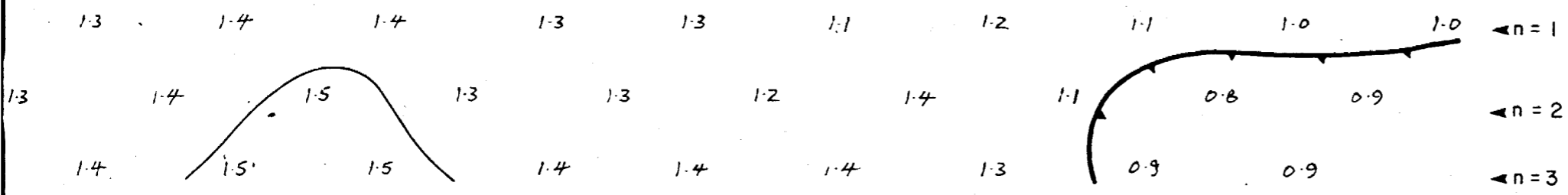
Apparent Resistivity
(ohm feet)

LINE NO. 28E

ELECTRODE CONFIGURATION



Metal Factor

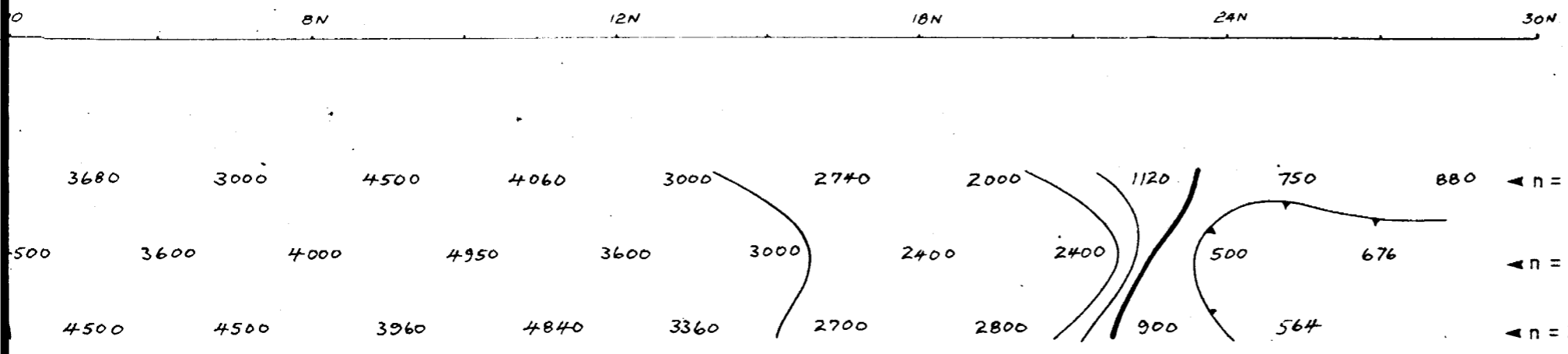


Frequency Effect
(%)

SCALE 1" = 300 feet, DATE June / July 1972
 Contours at logarithmic multiples of
 10, 15, 20, 30, 50, 75 & 100

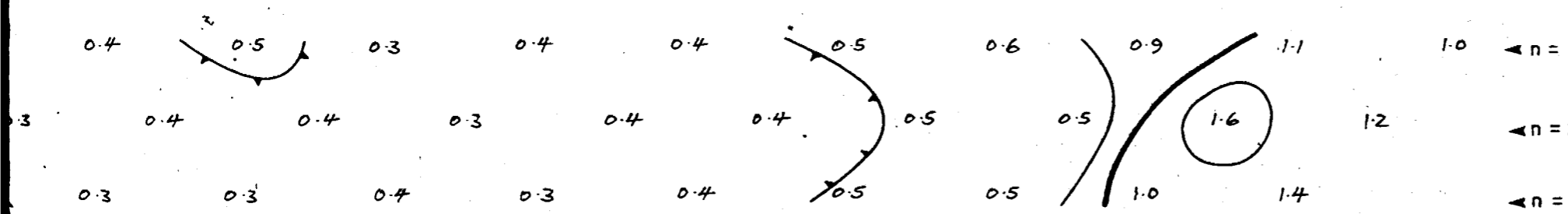
LINE NO. 28E

**INDUCED POLARIZATION
AND
RESISTIVITY SURVEY
for
AMERANIUM MINES LIMITED
TURNBULL TOWNSHIP
PORCUPINE M.D. ONTARIO**

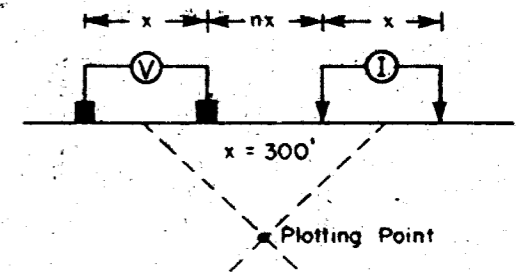


Apparent Resistivity
(ohm feet)

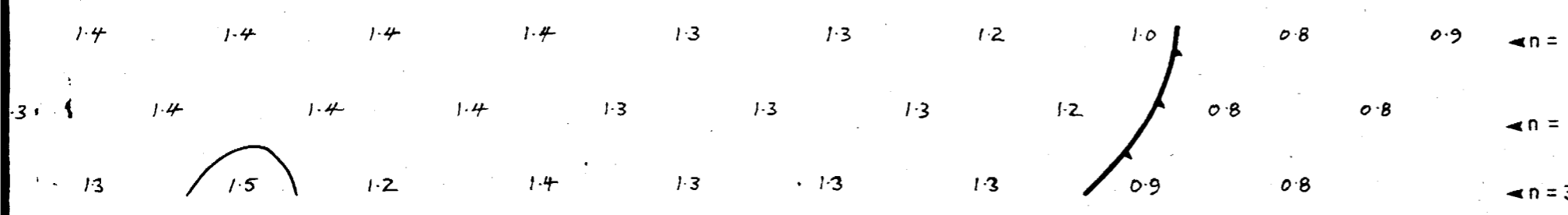
LINE NO. 32 E



ELECTRODE CONFIGURATION



Metal Factor

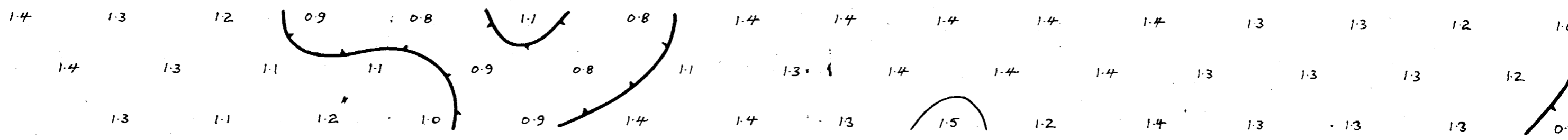
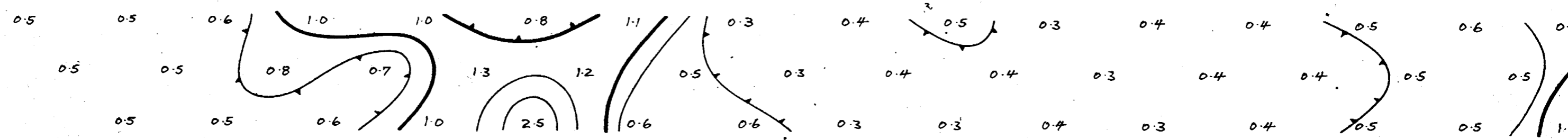
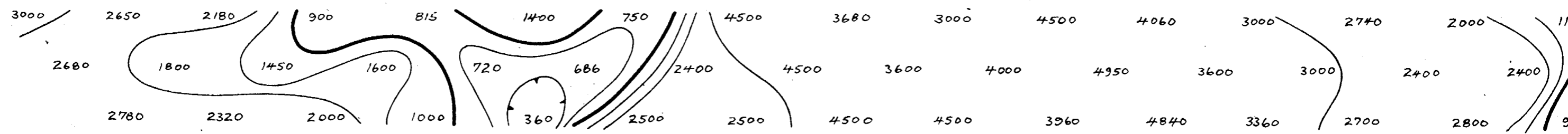


Frequency Effect
(%)

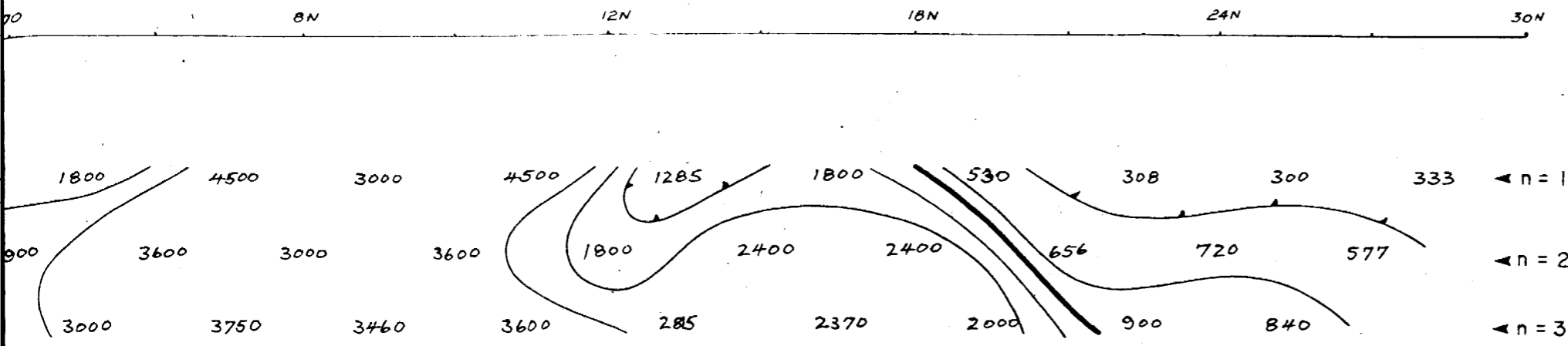
SCALE 1" = 300 feet, DATE June/July 1972
Contours at logarithmic multiples of
10, 15, 20, 30, 50, 75 & 100

LINE NO. 32 E

185 125 65 00 8N 12N 18N

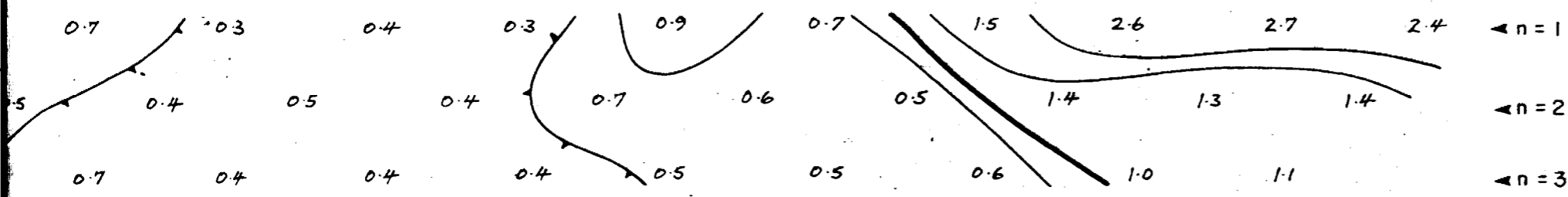


INDUCED POLARIZATION AND RESISTIVITY SURVEY for AMERANIUM MINES LIMITED TURNBULL TOWNSHIP PORCUPINE M.D. ONTARIO

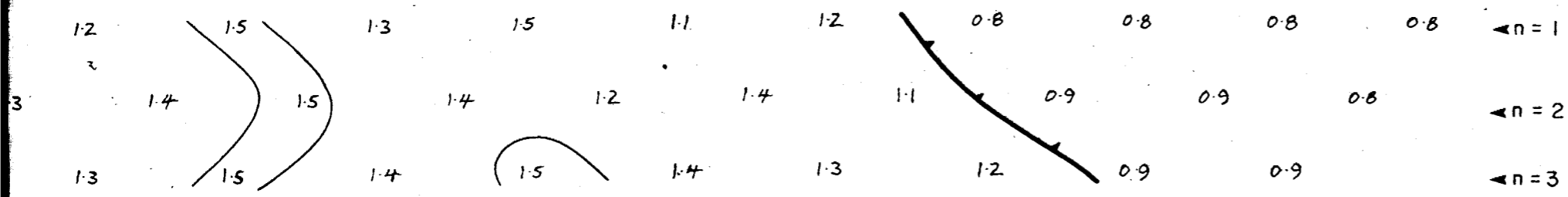
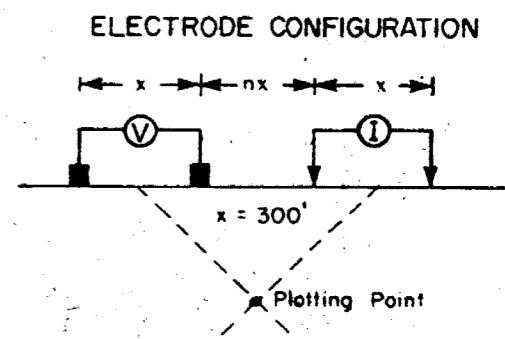


Apparent Resistivity (ohm feet)

LINE NO. 36E



Metal Factor



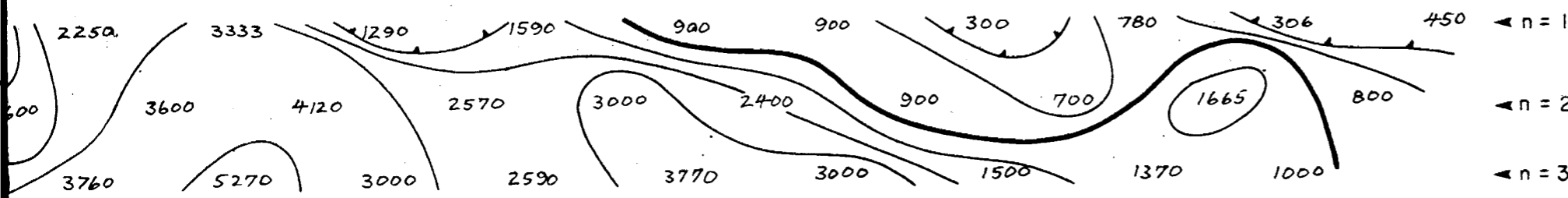
Frequency Effect (%)

SCALE 1" = 300 feet, DATE June/July 1972
Contours at logarithmic multiples of 10, 15, 20, 30, 50, 75 & 100

LINE NO. 36E

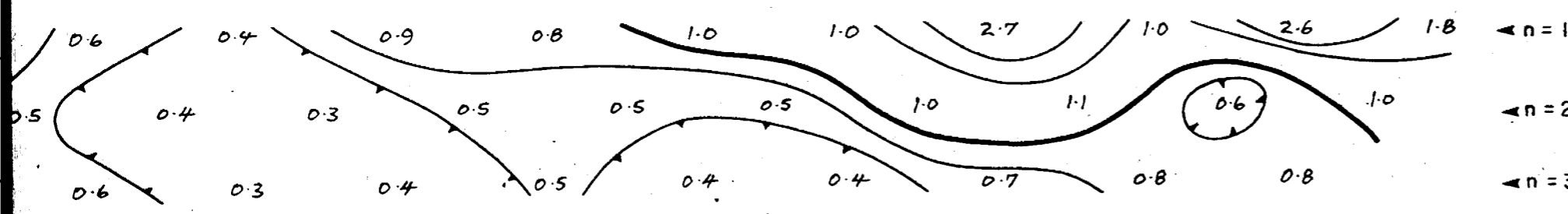
**INDUCED-POLARIZATION
AND
RESISTIVITY SURVEY
for
AMERANIUM MINES LIMITED
TURNBULL TOWNSHIP
PORCUPINE M.D. ONTARIO**

8N 12N 18N 24N 30N

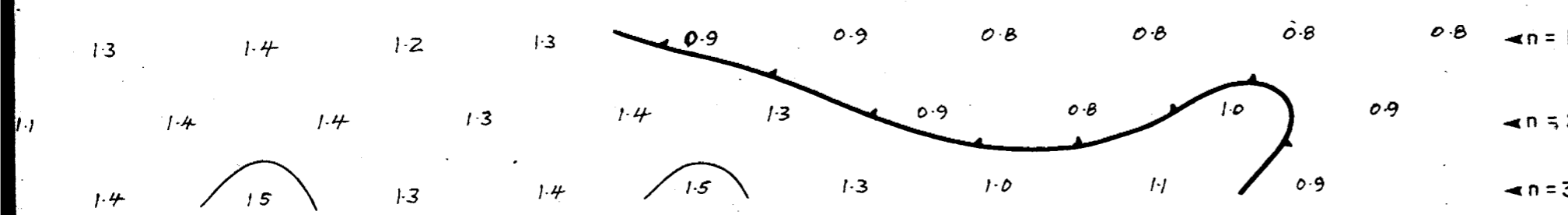
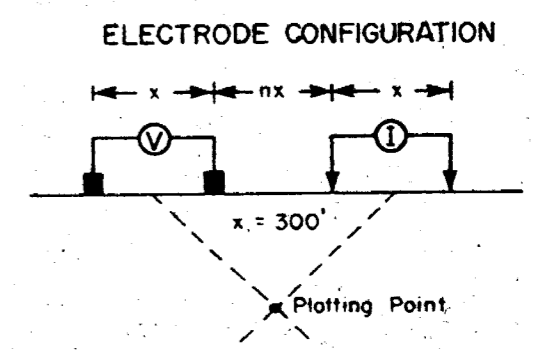


Apparent Resistivity
(ohm feet)

LINE NO.40E



Metal Factor



Frequency Effect
(%)

SCALE 1" = 300 feet, DATE June/July 1972
 Contours at logarithmic multiples of
 10, 15, 20, 30, 50, 75 & 100

LINE NO.40E

185

125

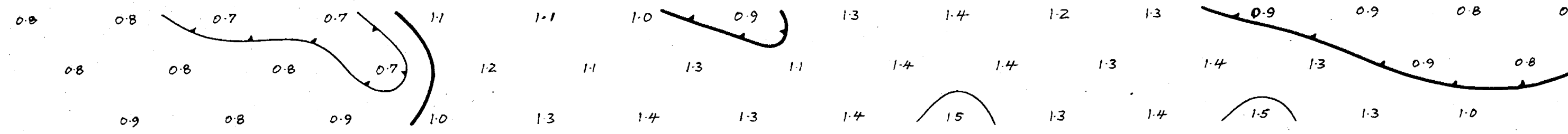
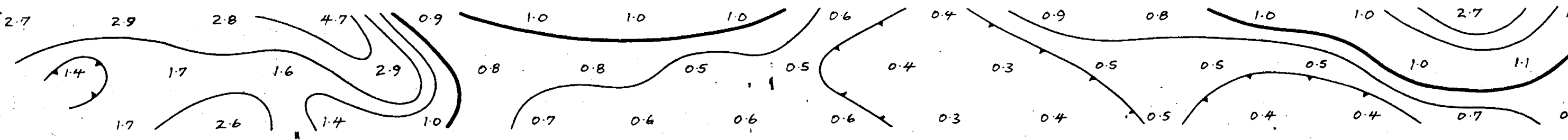
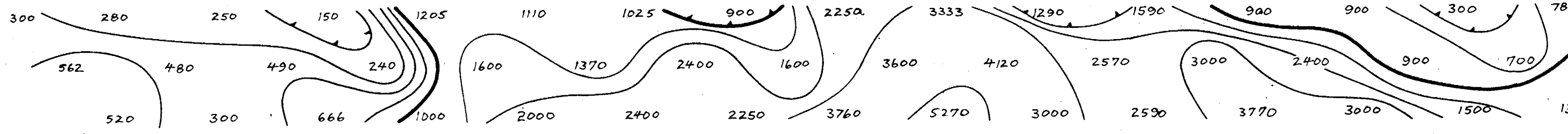
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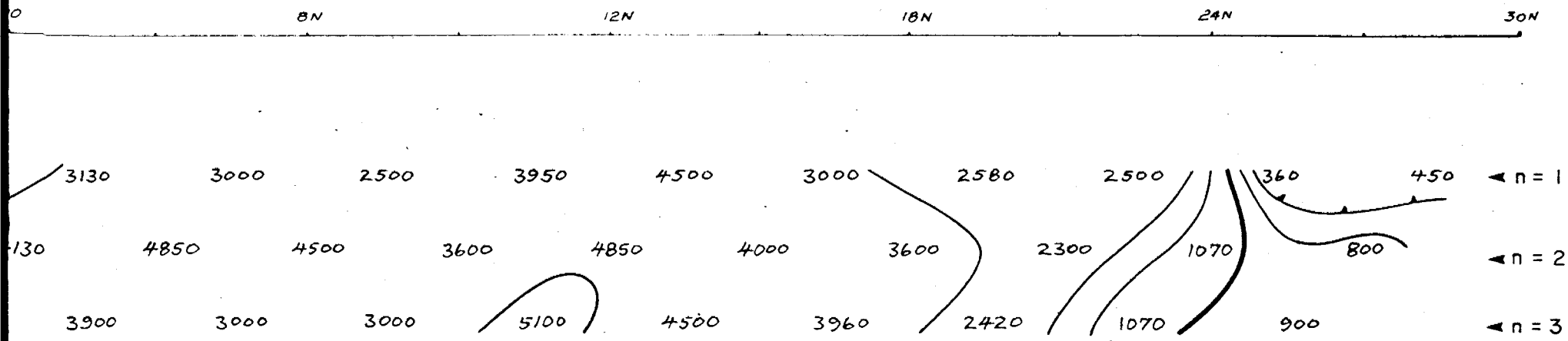
8N

12N

18N

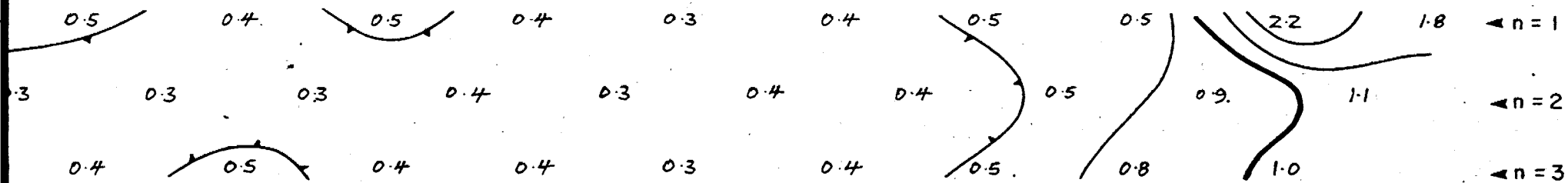


INDUCED POLARIZATION
AND
RESISTIVITY SURVEY
for
AMERANIUM MINES LIMITED
TURNBULL TOWNSHIP
PORCUPINE M.D. ONTARIO

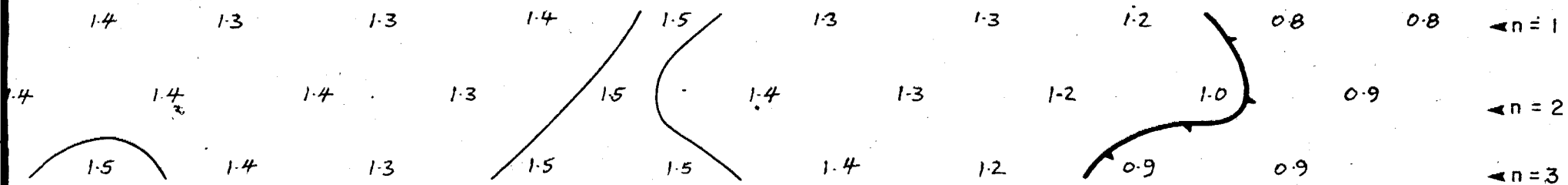
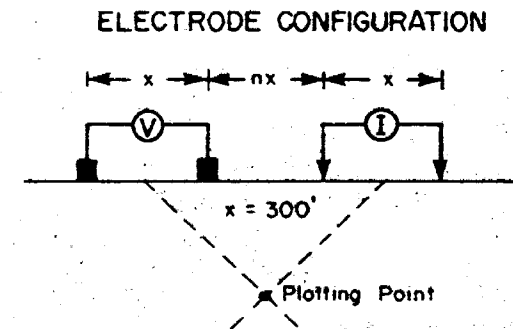


Apparent Resistivity
(ohm feet)

LINE NO.44E



Metal Factor



Frequency Effect
(%)

SCALE 1" = 300 feet, DATE June / July 1972
 Contours at logarithmic multiples of
 10, 15, 20, 30, 50, 75 & 100

LINE NO.44E

18S

12S

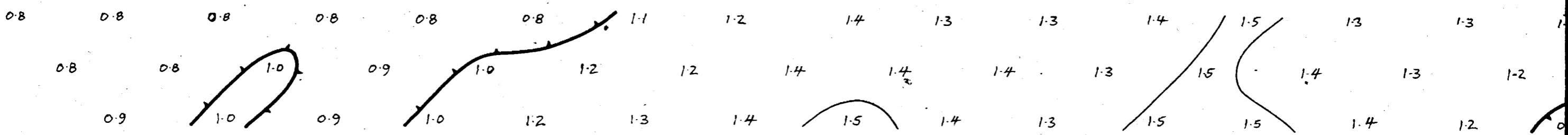
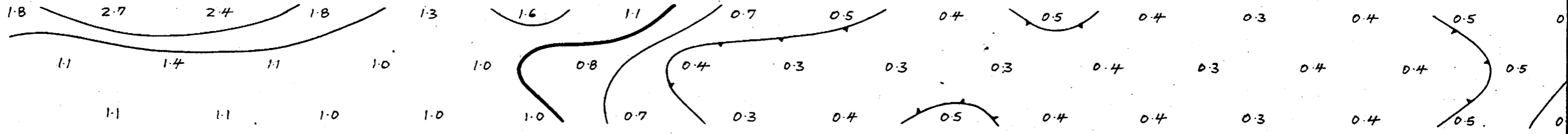
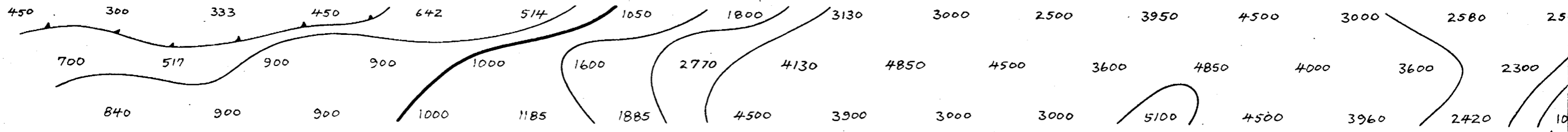
6S

00

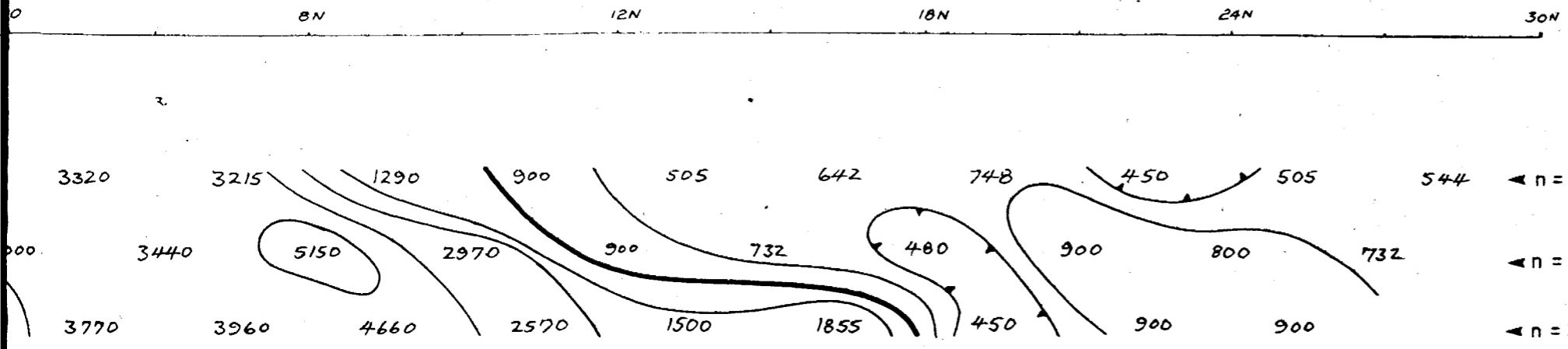
8N

12N

18N

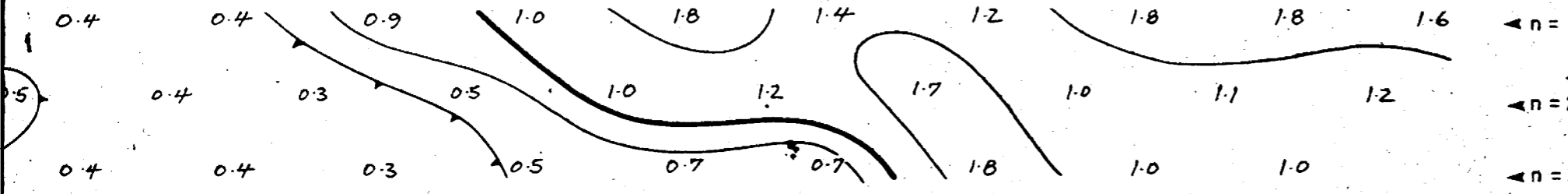


INDUCED POLARIZATION
AND
RESISTIVITY SURVEY
for
AMERANIUM MINES LIMITED
TURNBULL TOWNSHIP
PORCUPINE M.D. ONTARIO

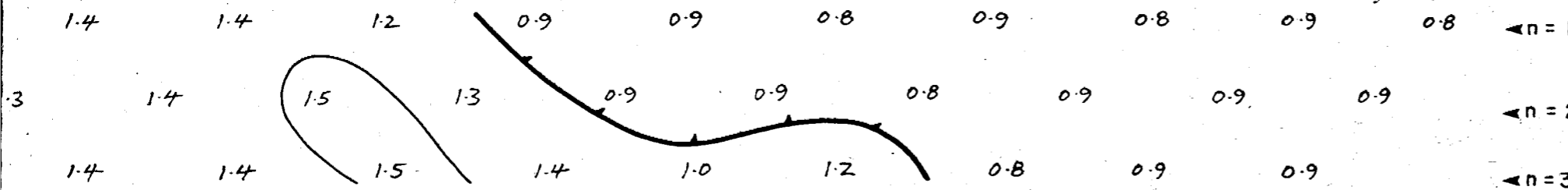
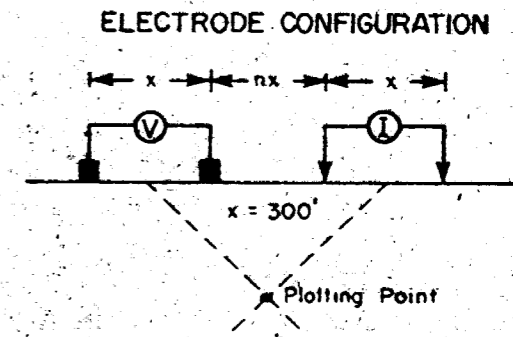


Apparent Resistivity
(ohm feet)

LINE NO.48E



Metal Factor



Frequency Effect
(%)

SCALE 1" = 300 feet, DATE June/July 1972
Contours at logarithmic multiples of
10, 15, 20, 30, 50, 75 & 100

LINE NO.48E

18S

12S

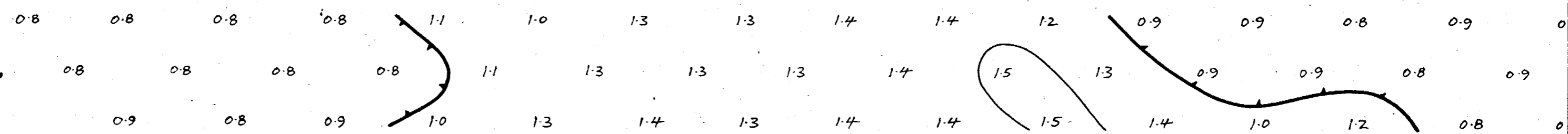
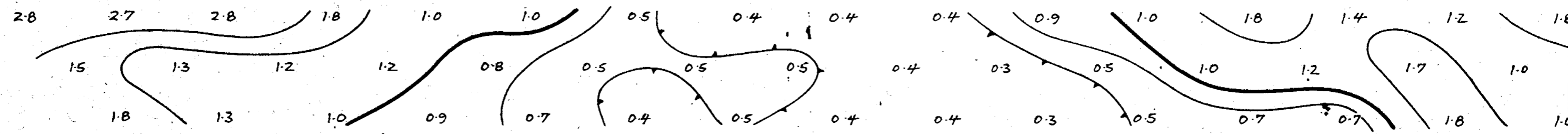
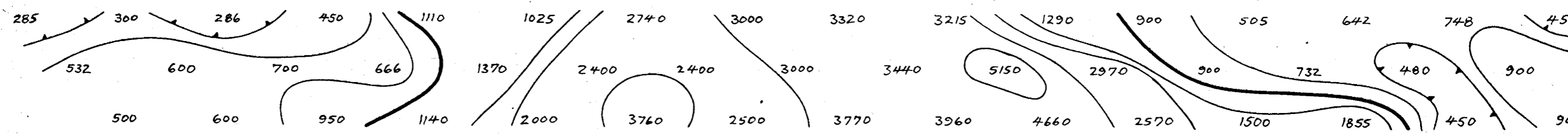
6S

00

8N

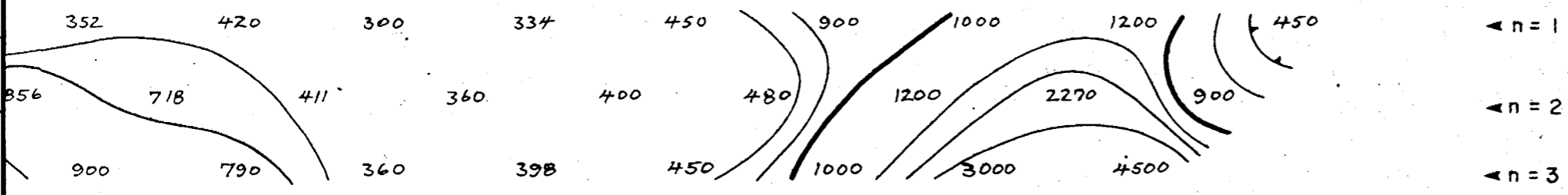
12N

18N



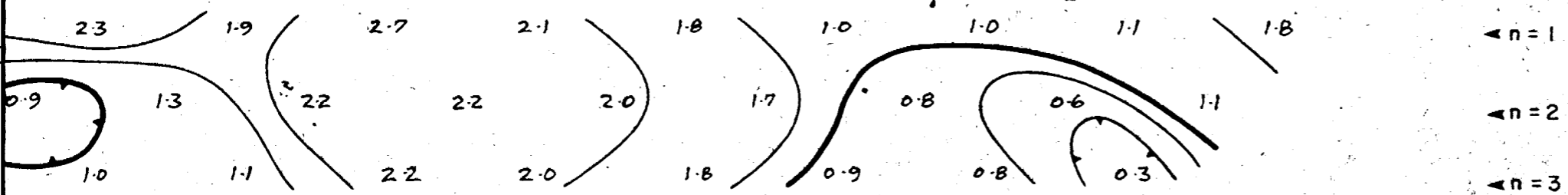
INDUCED POLARIZATION AND RESISTIVITY SURVEY for AMERANIUM MINES LIMITED TURNBULL TOWNSHIP PORCUPINE M.D. ONTARIO

00 8N 12N 18N 24N 30N

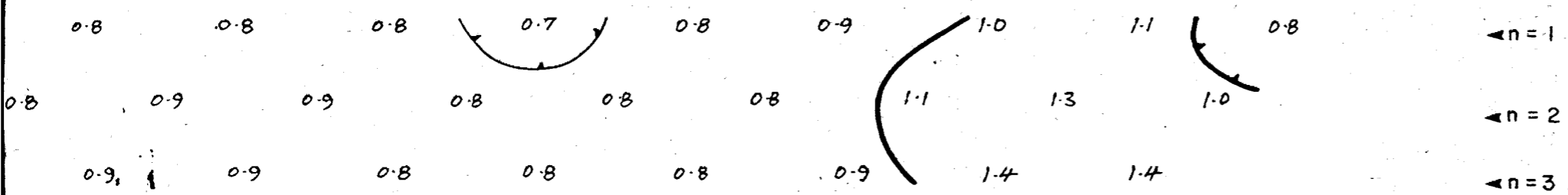
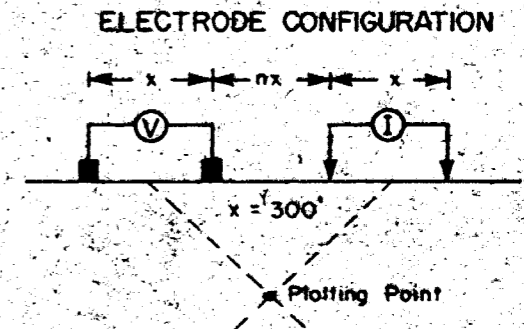


Apparent Resistivity (ohm feet)

LINE NO.52E



Metal Factor



Frequency Effect (%)

SCALE 1" = 300 feet, DATE June/July 1972
 Contours at logarithmic multiples of 10, 15, 20, 30, 50, 75 & 100

LINE NO.52E

185

125

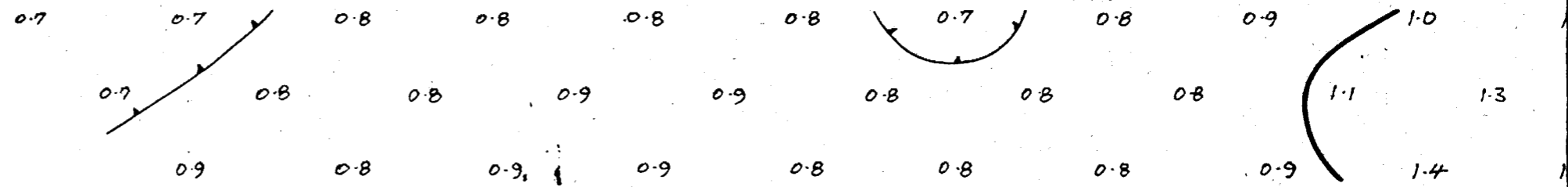
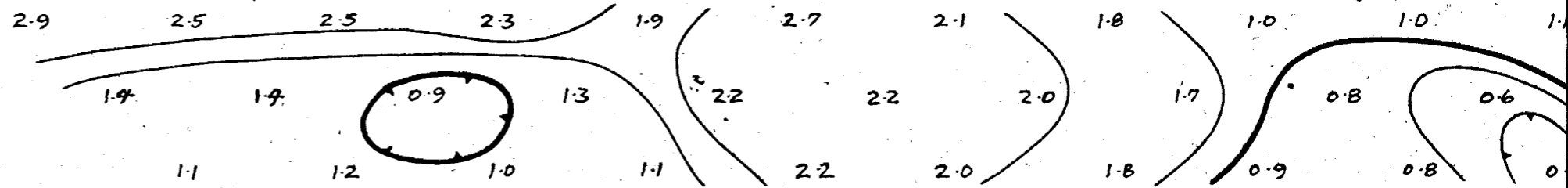
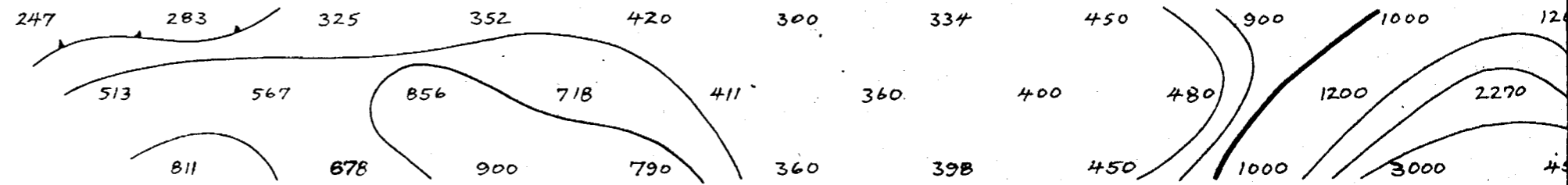
6S

00

8N

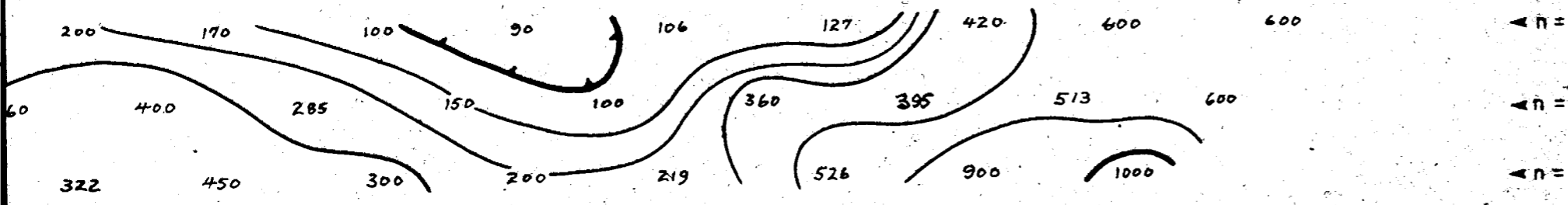
12N

18N



**INDUCED POLARIZATION
AND
RESISTIVITY SURVEY
for
AMERANIUM MINES LIMITED
TURNBULL TOWNSHIP
PORCUPINE M.D. ONTARIO**

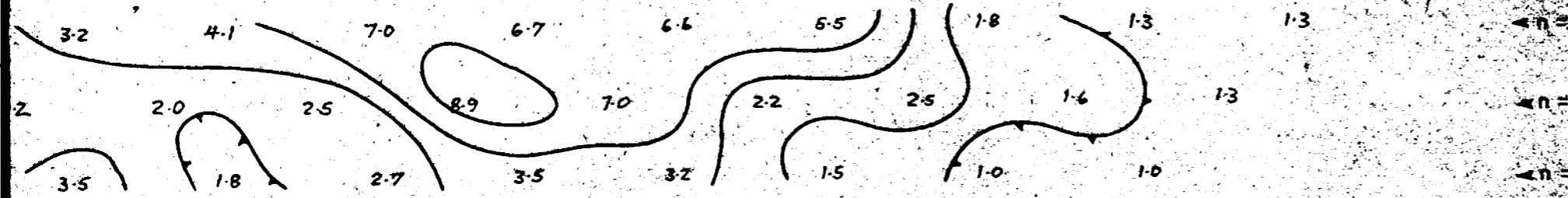
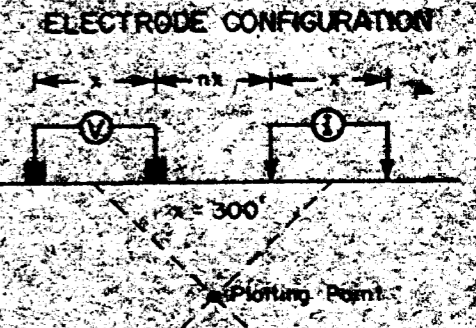
00 8N 12N 18N 24N 30N



← n = 1
← n = 2
← n = 3

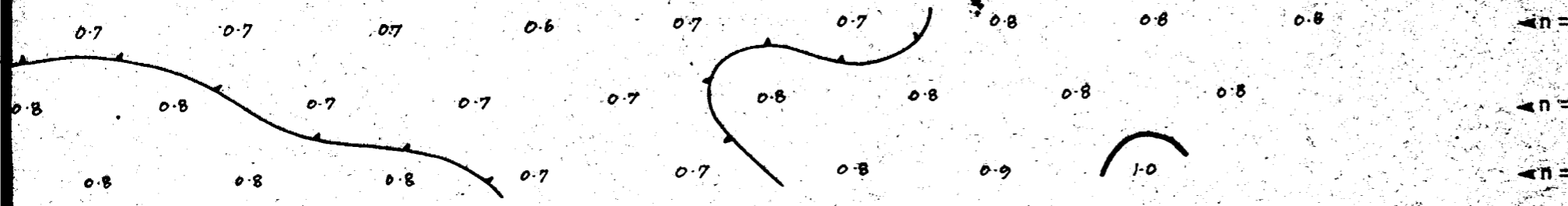
Apparent Resistivity
(ohm feet)

LINE NO56E



← n = 1
← n = 2
← n = 3

Metal Factor



← n = 1
← n = 2
← n = 3

Frequency Effect
(%)

SCALE 1" = 300 feet, DATE June/July 1972
Contours at logarithmic multiples of
10, 15, 20, 30, 50, 75 & 100

LINE NO56E

185

125

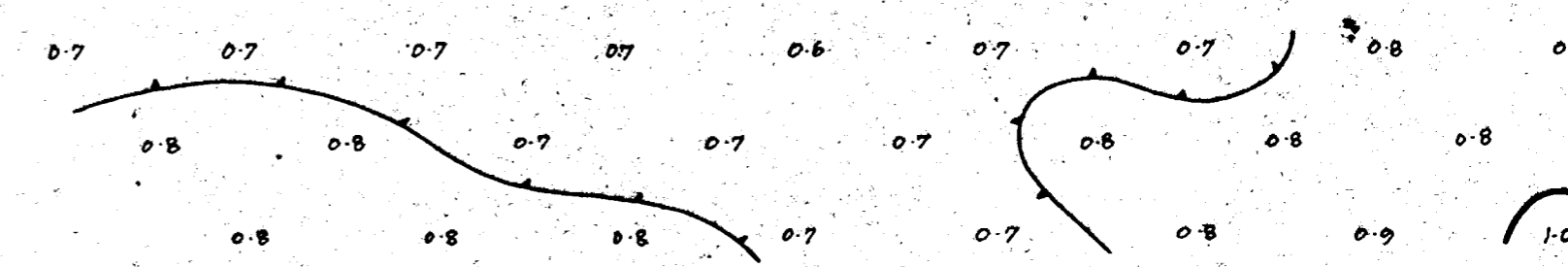
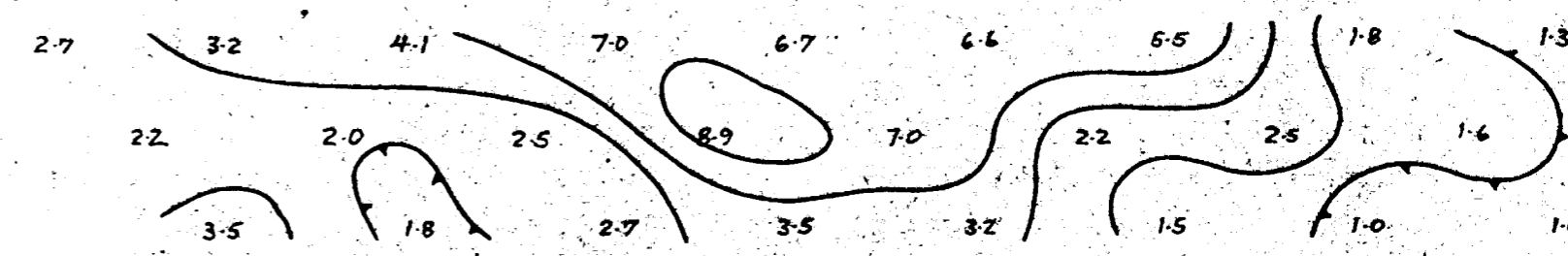
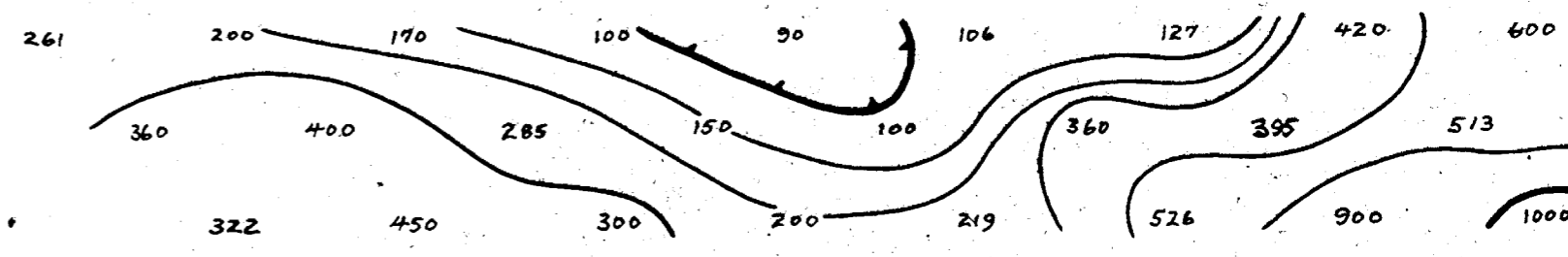
65

00

8N

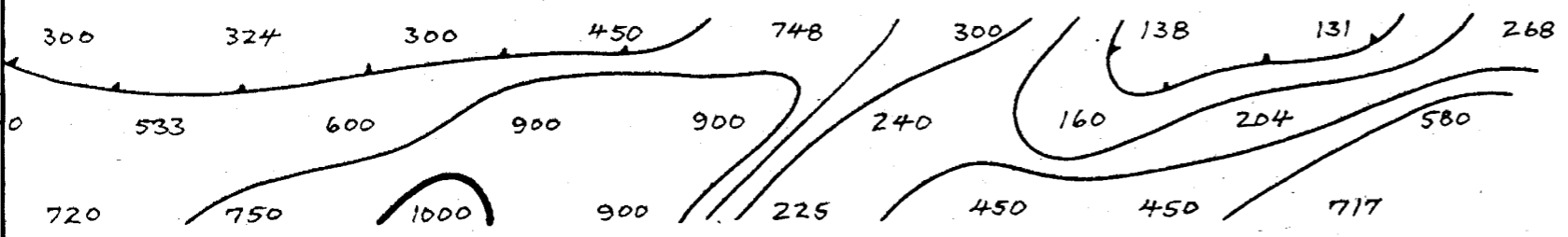
12N

18N



INDUCED POLARIZATION
AND
RESISTIVITY SURVEY
for
AMERANIUM MINES LIMITED
TURNBULL TOWNSHIP
PORCUPINE M.D. ONTARIO

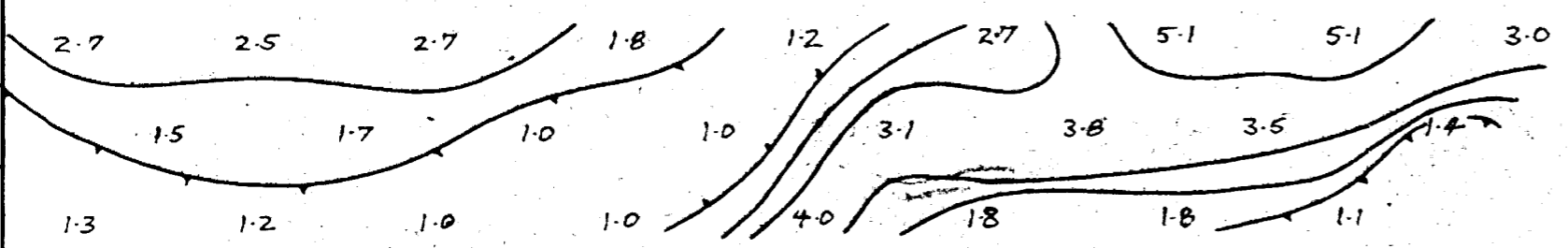
8N 12N 18N 24N 30N



← n = 1
← n = 2
← n = 3

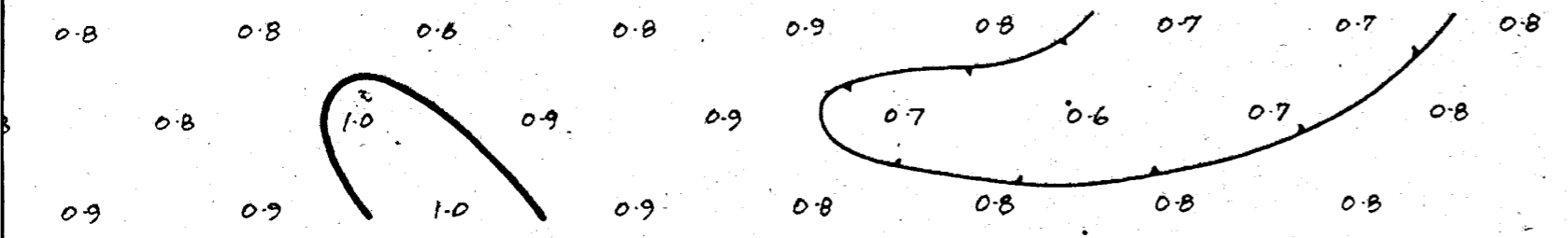
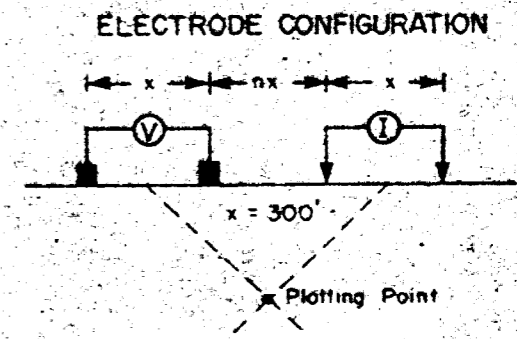
Apparent Resistivity
(ohm feet)

LINE NO. 60E



← n = 1
← n = 2
← n = 3

Metal Factor



← n = 1
← n = 2
← n = 3

Frequency Effect
(%)

SCALE 1" = 300 feet, DATE June/July 1972
Contours at logarithmic multiples of
10, 15, 20, 30, 50, 75 & 100

LINE NO. 60E

105

125

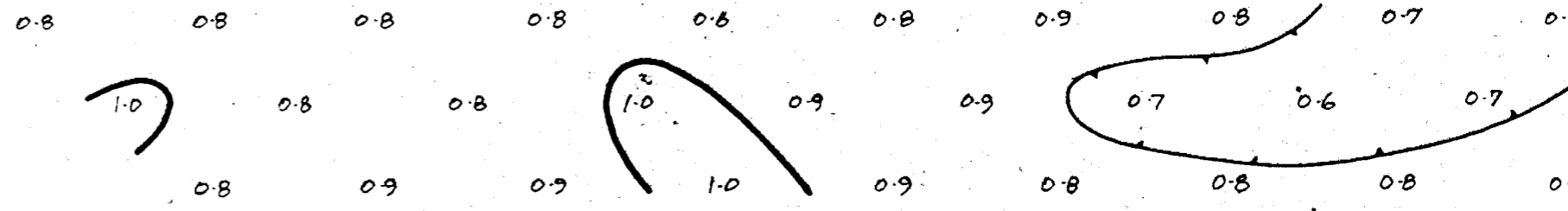
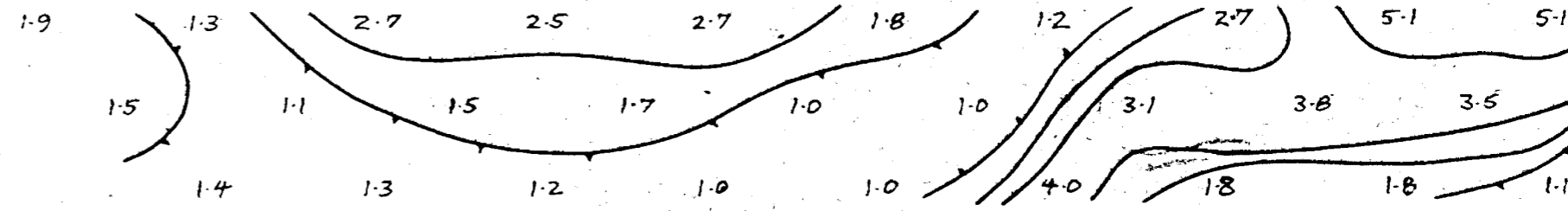
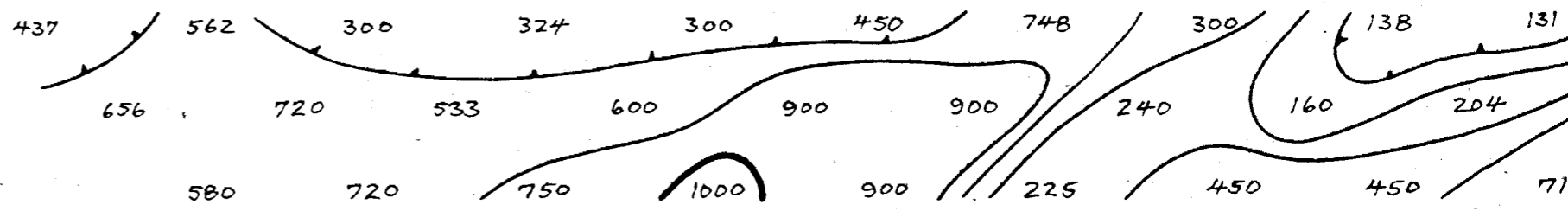
65

00

8N

12N

18N



GEOPHYSICAL - G
TECHNICAL



42A05NE0119 2.992 TURNBULL

900

PROJECTS
SECTION

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

Type of Survey Resistivity Survey (D.P.)
Township or Area Turnbull Silver
Claim holder(s) Daniel Ruchow M18456
% American Mining Co.
7th Floor 366 Bay St. Toronto
Author of Report Tom Schubert
Address 2150 Lakeshore Plaza
Covering Dates of Survey May 15 - June 25/72
(line cutting to office)
Total Miles of Line cut 22 miles

MINING CLAIMS TRAVERSED
List numerically

- P 320137 (prefix) (number)
- 320138
- 320139
- 320140
- 320141
- 320142
- 320143
- 320144
- 320145
- 320146
- 320147
- 320148
- 320149
- 320246
- 320247
- 320248
- 320249
- 320250
- 320251
- 320252

SPECIAL PROVISIONS CREDITS REQUESTED	Geophysical	DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	--Electromagnetic	
ENTER 20 days for each additional survey using same grid.	--Magnetometer	
	--Radiometric	
	IP --Other <u>Resistivity</u>	<u>40</u>
	Geological	
	Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)
DATE: Aug 18/72 SIGNATURE: Tom Schubert
Author of Report

PROJECTS SECTION
Res. Geol. _____ Qualifications 63.1085
Previous Surveys 63.1289 Airborne
63.1055 Geological & Geophysical
Checked by _____ done in date 1960
GEOLOGICAL BRANCH _____
Approved by _____ date _____
GEOLOGICAL BRANCH _____
Approved by _____ date _____

TOTAL CLAIMS 20

OFFICE USE ONLY

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations 1000 Number of Readings 1000
Station interval 300' and 100'
Line spacing 400'
Profile scale or Contour intervals _____
(specify for each type of survey)

MAGNETIC

Instrument _____
Accuracy - Scale constant _____
Diurnal correction method _____
Base station location _____

ELECTROMAGNETIC

Instrument _____
Coil configuration _____
Coil separation _____
Accuracy _____
Method: Fixed transmitter Shoot back In line Parallel line
Frequency _____
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____
Scale constant _____
Corrections made _____
Base station value and location _____
Elevation accuracy _____

INDUCED POLARIZATION -- RESISTIVITY

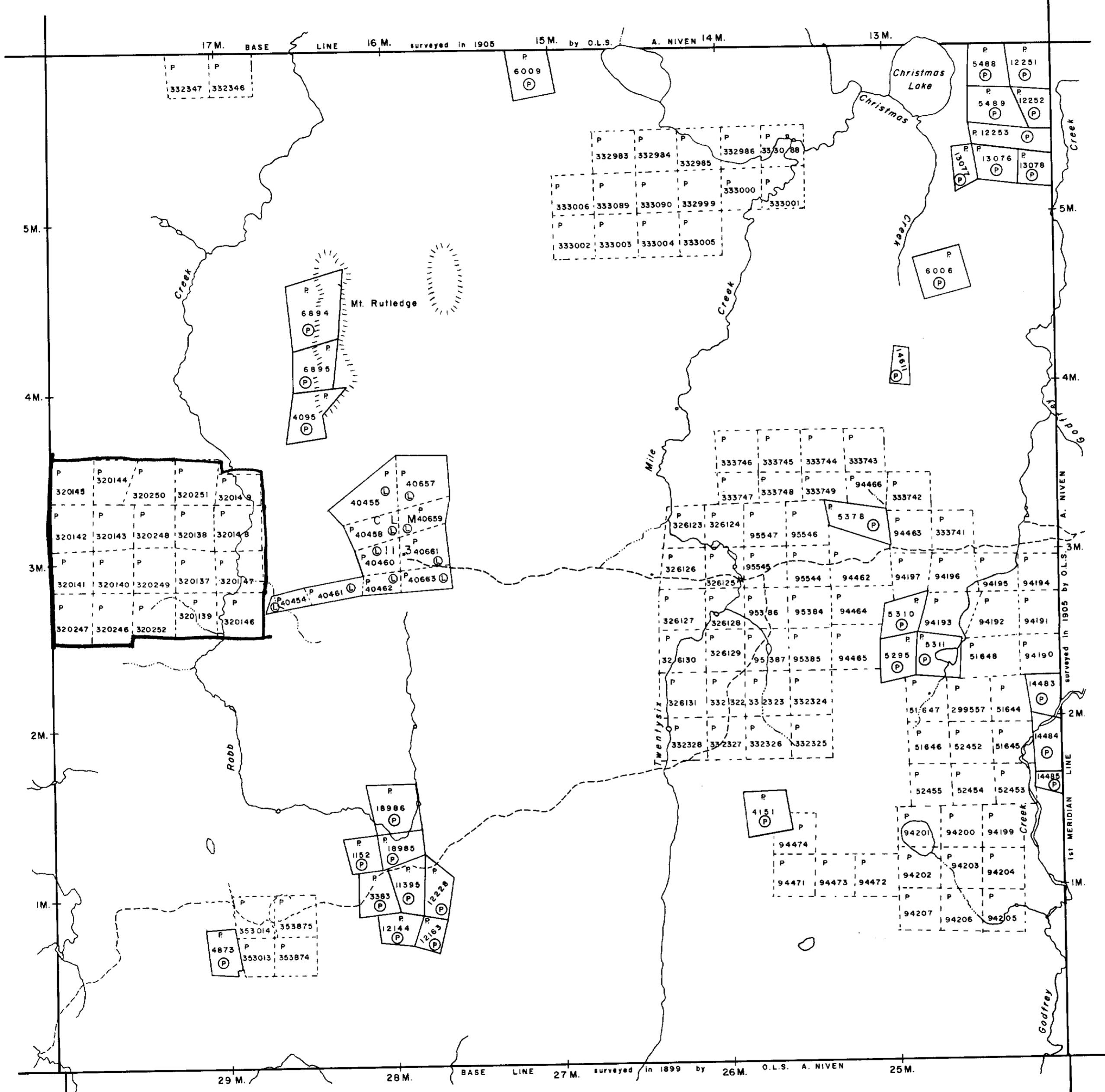
Instrument M. Phase 654
Time domain _____ Frequency domain
Frequency 0.03 to 1 Hz Range _____
Power 1 KW
Electrode array Dipole - Dipole
Electrode spacing 300
Type of electrode Foil

Robb TP (M.309)

THE TOWNSHIP OF
TURNBULL
DISTRICT OF COCHRANE
PORCUPINE MINING DIVISION
SCALE: 1-INCH = 40 CHAINS

Massey TP. (M.296)

Godfrey TP. (M.284)



LEGEND

- PATENTED LAND ● or (P)
- CROWN LAND SALE . C.S.
- LEASES (L)
- 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 C.
- PATENTED FOR SURFACE RIGHTS ONLY

NOTES

400' Surface Rights Reservation along the shores of all lakes & rivers

DATE OF ISSUE
AUG 23 1972
ONT. DEPT. OF MINES
AND NORTHERN AFFAIRS

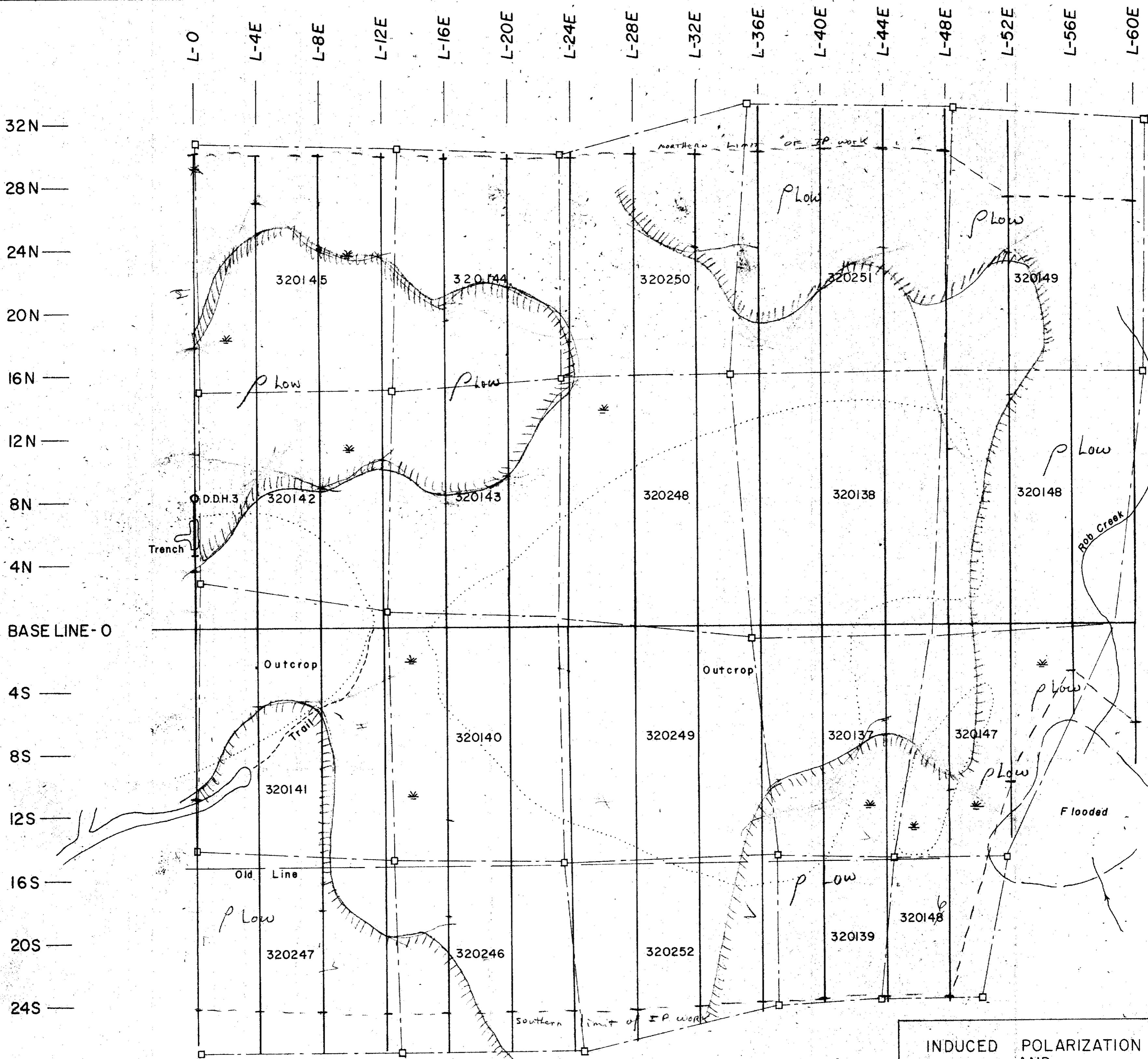
2.992

PLAN NO. M-316

MINISTRY OF
NATURAL RESOURCES
ONTARIO

Carscallen Tp. (M.267)





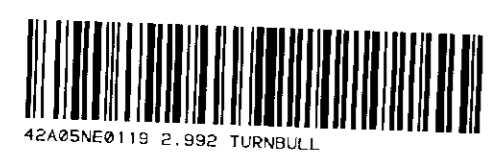
INDUCED POLARIZATION
AND
RESISTIVITY SURVEY -
FOR
AMERANIUM MINES LIMITED

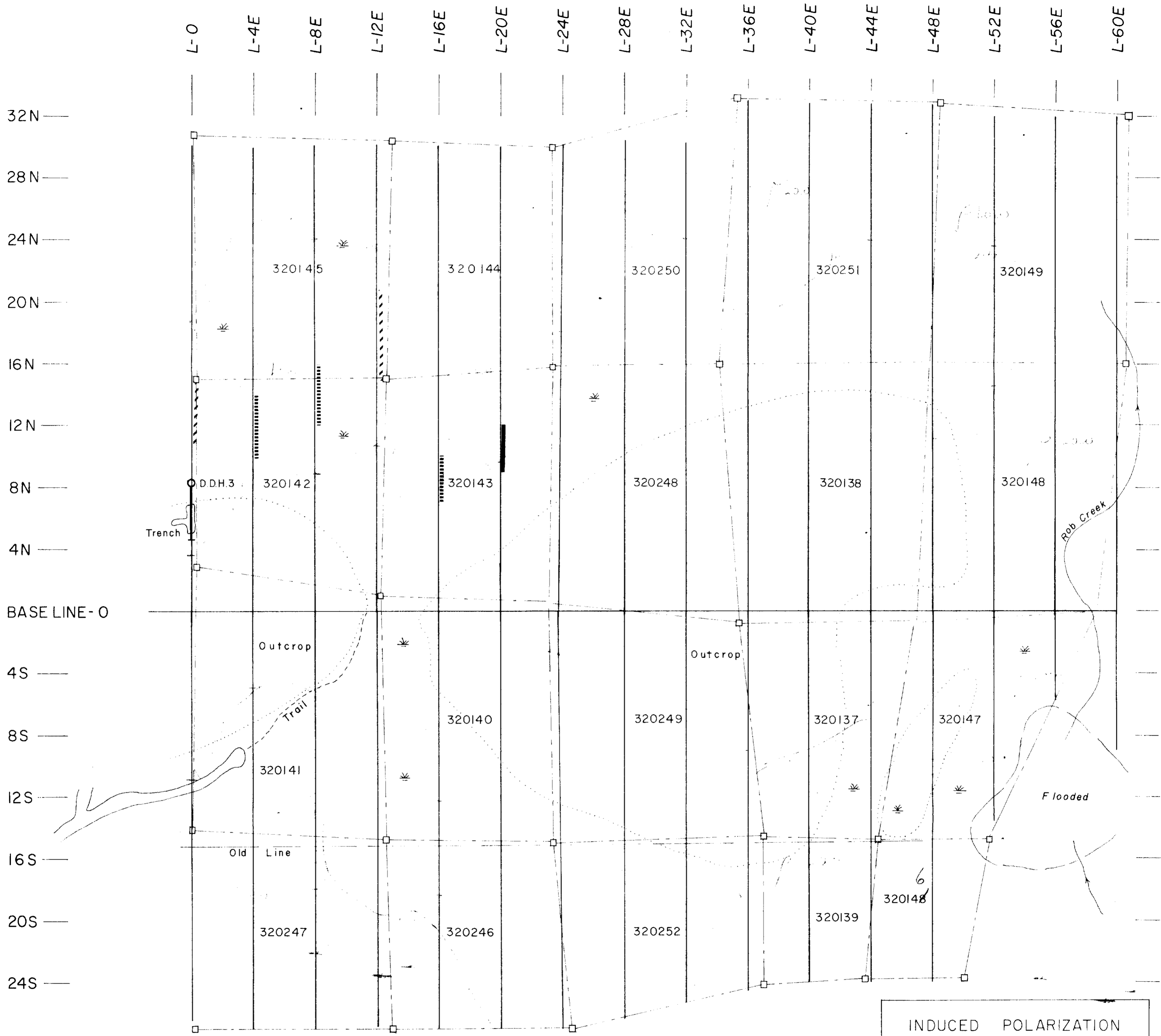
TURNBULL TOWNSHIP
PORCUPINE M.D. - ONTARIO

SCALE: 1" = 400 Feet

rho Resistivity Low.

Tom Sedwell





INDUCED POLARIZATION
AND
RESISTIVITY SURVEY
FOR
AMERANIUM MINES LIMITED

TURNBULL TOWNSHIP
PORCUPINE M.D - ONT.

SCALE : 1" = 400 Feet

