REPORT ON THE DEER LAKE COPPER-GOLD PROSPECT, KAMLOOPS MINING DIVISION, BRITISH COLUMBIA, ON BEHALF OF MERIDIAN RESOURCES LIMITED.

NTS: 92P/9W

LAT.: 51°32'N

LONG.: 120°23'W

D. F. Symonds, B.Sc.

J. H. Montgomery, P.Eng.

December 9, 1977.

TABLE OF CONTENTS

LIST OF ILLUSTRATIONS

LIST OF APPENDICES

1.0 INTRODUCTION

The following is a report on the Deer Lake copper-gold prospect located in the Kamloops Mining Division near Little Fort, British Columbia.

This report was prepared from information gathered from field work carried out on the property from July 2nd to September 20th, 1977.

2.0 SUMMARY AND CONCLUSIONS

Meridian Resources Limited of Vancouver, British Columbia, had an option on the FORT-LV-ADD-PYCU claims(up to September, 1977), and owns the COPPER-SILVER-GOLD claims. These claims are all located in the KAMLOOPS MINING DIVISION, about 19 air-kilometres(12 air-miles) northwest of Little Fort, British Columbia.

The property is accessible by road from Little Fort, a distance of 26 kilometres(16 miles). There are a total of 74 mineral claims, and, in addition, 6 blocks containing 59 units.

On the basis of previous work done on the property(see report by J. H. Montgomery, P.Eng., April 7, 1977), four areas were selected for further investigation during the 1977 field season. These four areas were explored using geochemical and geophysical methods, and follow-up geochemistry and geophysics, along with the drilling of

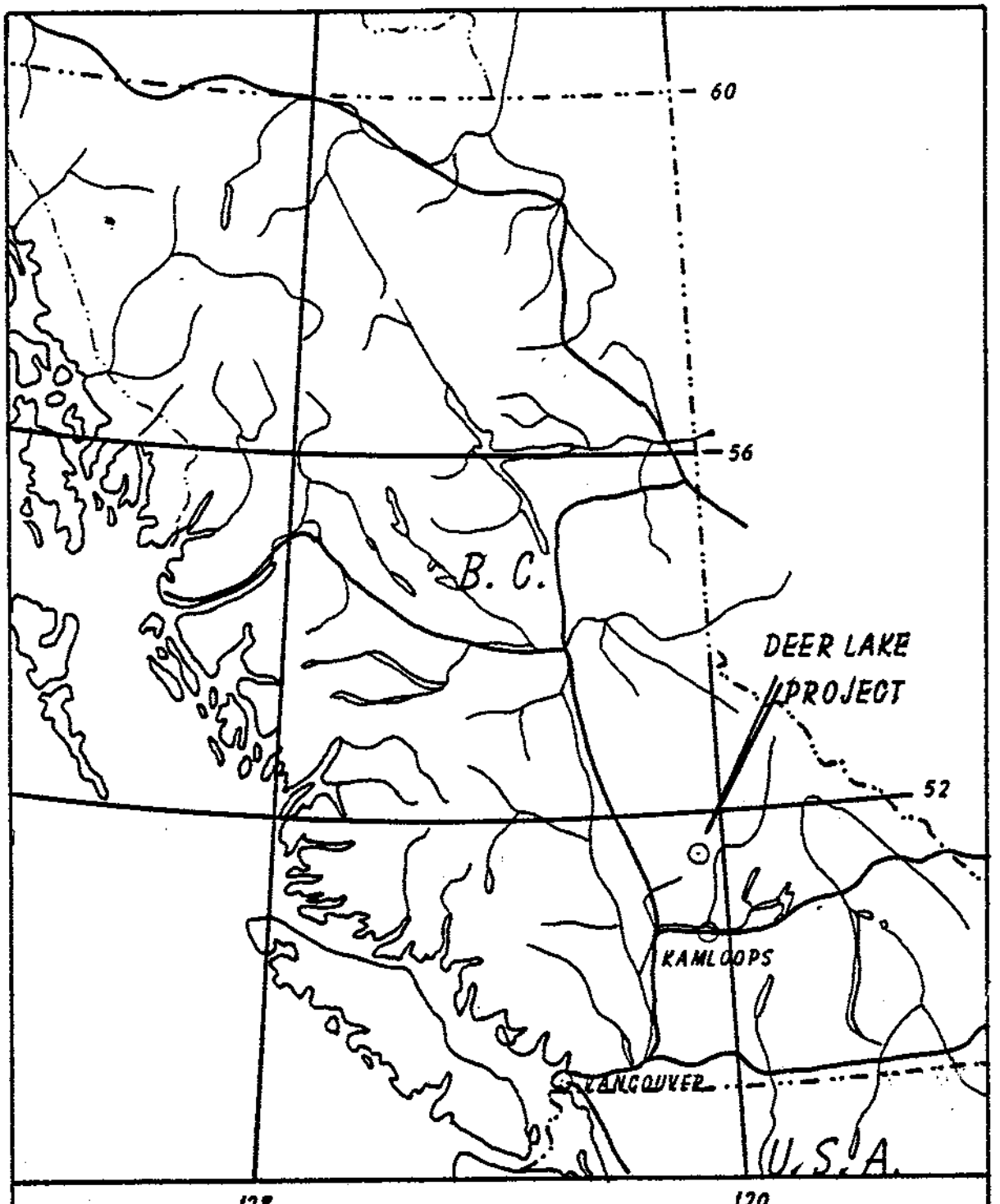


FIGURE 1

LOCATION MAP

MERIDIAN RESOURCES LIMITED
DEER LAKE PROJECT

MONTGOMERY CONSULTANTS LIMITED

December 9, 1977

two percussion drill holes was carried out. Lines were marked with blazes for permanence and flagged for chainage and visibility.

3.0 LOCATION AND ACCESS

The location of the property is shown in Figure 1. It is located mainly on the highland plateau between Deer Lake and Laurel Lake at elevations between 1310 and 1490 metres.(4300 and 4900 feet). See NTS Map 92P/9W (Clearwater); Latitude, 51°32'N; Longitude, 120°23'W.

The area is heavily-wooded and active logging operations are in progress.

The property is accessible by road from Kamloops, B.C., north on Highway #5 to Little Fort, a distance of about 90 kilometres(56 miles). From there, the Bridge Lake road is followed westerly for 15 kilometres(9.5 miles) and a gravel logging road is followed northerly a distance of 9.6 kilometres(6 miles) to the property. An extensive series of old roads and logging roads provide access to most parts of the property.

4.0 CLAIM INFORMATION

The property consists of 74 mineral claims and 6 blocks containing 59 units, all located in the Kamloops Mining Division of British Columbia. The claims are shown in Figure 2 and the

pertinent information is given in Table I.

TABLE I

FORT 1-2(2)	102082-102083	Dec.7/79**
FORT 3-6(4)	102084-102087	Dec.30/80**
FORT 7(4 units)	178	Dec.30/78**
FORT 8(1)	221	Feb.6/78**
FORT 9(4 units)	428	June 25/79***
LV 29-68(40)	115219-115258	May 3/78
LV 70Fr.-72Fr.(3)	115260-115262	May 3/78
ADD 4(1)	128356	Aug.9/78
ADD 6(1)	128358	Aug.9/78
ADD 15-27(13)	128367-128379	Aug.9/78
PYCU 3(1)	106123	Feb.28/78
PYCU 4(1)	106124	Feb.28/78
COPPER #1(14 unit)	*	Mar.8/78
SILVER #1(12 unit)	*	Mar.8/78
GOLD #1(16 units)	*	Mar.8/78
BOB(4 units)	1019	Sept.20/78
CAROL(1 unit)	1020	Sept.20/78
TED($ units)	1021	Sept.20/78

Claim information was obtained from company officials and from the Mining Recorder's Office in Vancouver, B.C. Some posts and location lines were examined in the field and they appear to have been staked according to the regulations set down in the Mining Act for British Columbia.

The claims in table I marked with an "*" were staked by Mr. John Young, of Vancouver, British Columbia, acting as agent for Meridian Resources Limited. All of the other claims were under

option by Meridian Resources Limited from Mr. John S. Burns, of Vancouver, British Columbia.

The claims marked with an "**" have recording dates which are pending the acceptance of this report for assessment purposes by the Ministry of Mines and Petroleum Resources. An "Affidavit on Application to Record Work" has already been filed to this end. (see Appendix A). The claim marked with an "***" in Table I has had $300.00 in assessment work filed on it by virtue of the above-mentioned affidavit, and the necessary $100.00 assessment work required to bring the expiry date of the entire 4-unit claim up to June 25/79 will be included in a subsequent "Affidavit on Application to Record Work".

5.0 AREAS OF INVESTIGATION

5.1 No Fish Lake Area

5.10 Previous Work and Results

In the early 1970's extensive geochemical surveys were carried out over the western part of the present claim area. On two of the survey lines passing to the west of No Fish Lake, two very highly-anomalous arsenic values were detected in the soils. Since arsenic is commonly related to gold mineralization, further work was recommended in the area.

5.11 Recent Work

5.110 Geochemistry

A control grid was established over the anomalous area and further soil sampling was carried out.(see Figure 2 for grid location). All samples were analysed(see Appendices B.I and B.II for sampling method and analytical procedure) for copper, molybdenum and arsenic and selected samples were analysed for silver and gold. The results are shown in figures 3 through 7.

5.111 Geophysics

A magnetic survey was run over the control grid.(see Appendix C for instrumentation). Magnetic measurements were corrected using readings taken on a second instrument at a fixed base station.

An electomagnetic survey(shootback technique) employing two frequencies was also run over the survey grid.

5.12 Results of Recent Work

An arsenic anomaly, roughly 250 metres in length and 150 metres in width, delineated by 7 samples running over 100 parts per million(P.P.M.) arsenic in the soil was detected by the survey. (see Figure 3). The anomaly is open towards No Fish Lake. There are no coincident anomalous silver or gold values in the soil, and no magnetic or electromagnetic anomalies were detected(see Figures

8 and 9).

5.13 Recommendations

Further reconaissance geochemical and geological prospecting should be carried out in the area in an attempt to find the source of the arsenic anomaly, which at this time must be assumed to be a transported anomaly, due to the lack of contrary information.

Further, more concentrated efforts to investigate this anomaly using trenching or drilling techniques cannot be recommended at this time.

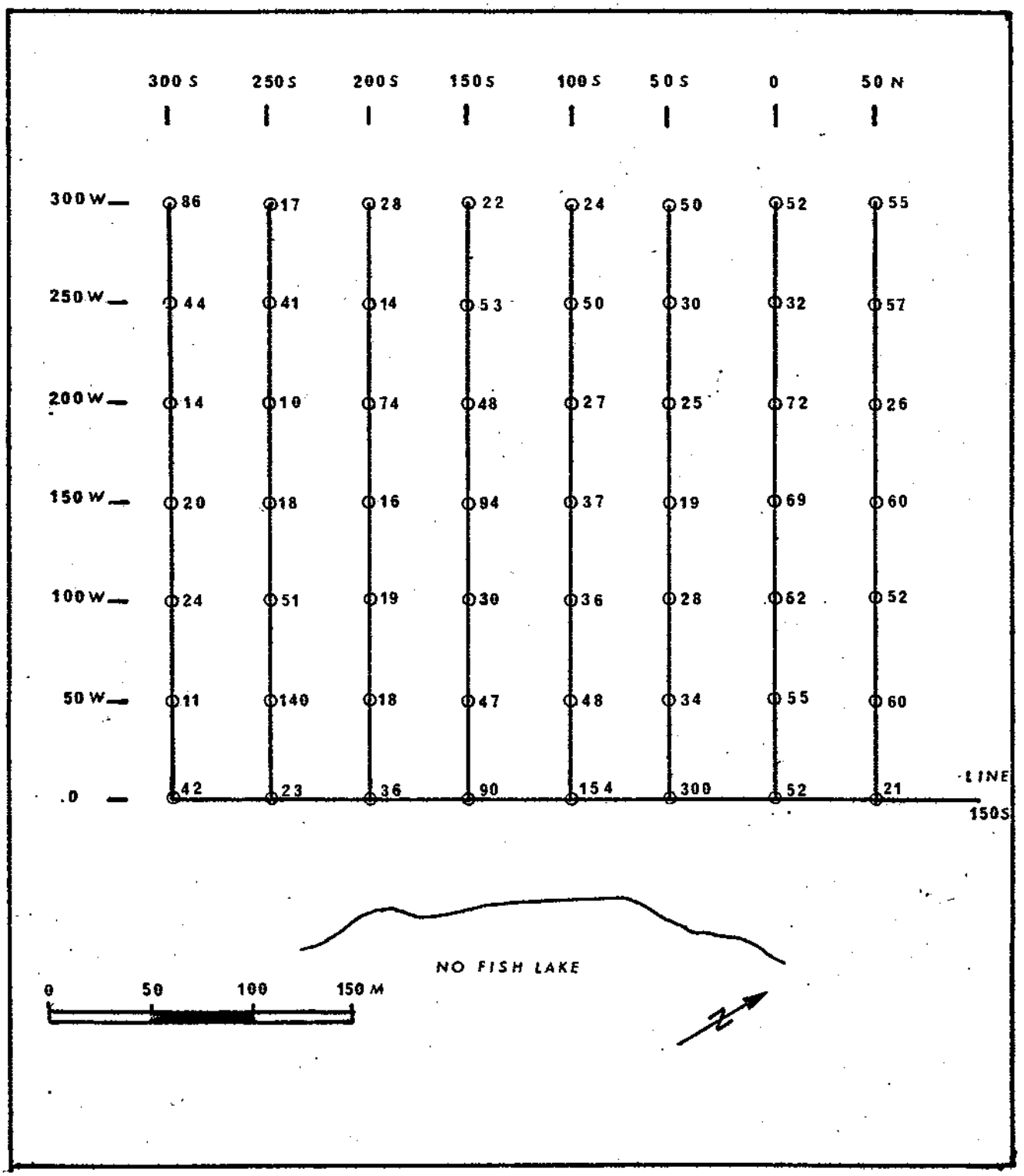
5.2 M^{c}Leod Lake Area

5.20 Previous Work and Results

Previous work in the area north-east of M^{c}Leod Lake resulted in the discovery of a chalcopyrite-bearing granitic outcrop. Due to the lack of further outcrop in this area, a geochemical survey was recommended to aid in delineating the copper mineralization.

5.21 Recent Work

A control grid was established over the mineralized area and soil sampling was carried out.(see Figure 2 for grid location). All samples were analysed for copper, molybdenum and arsenic.

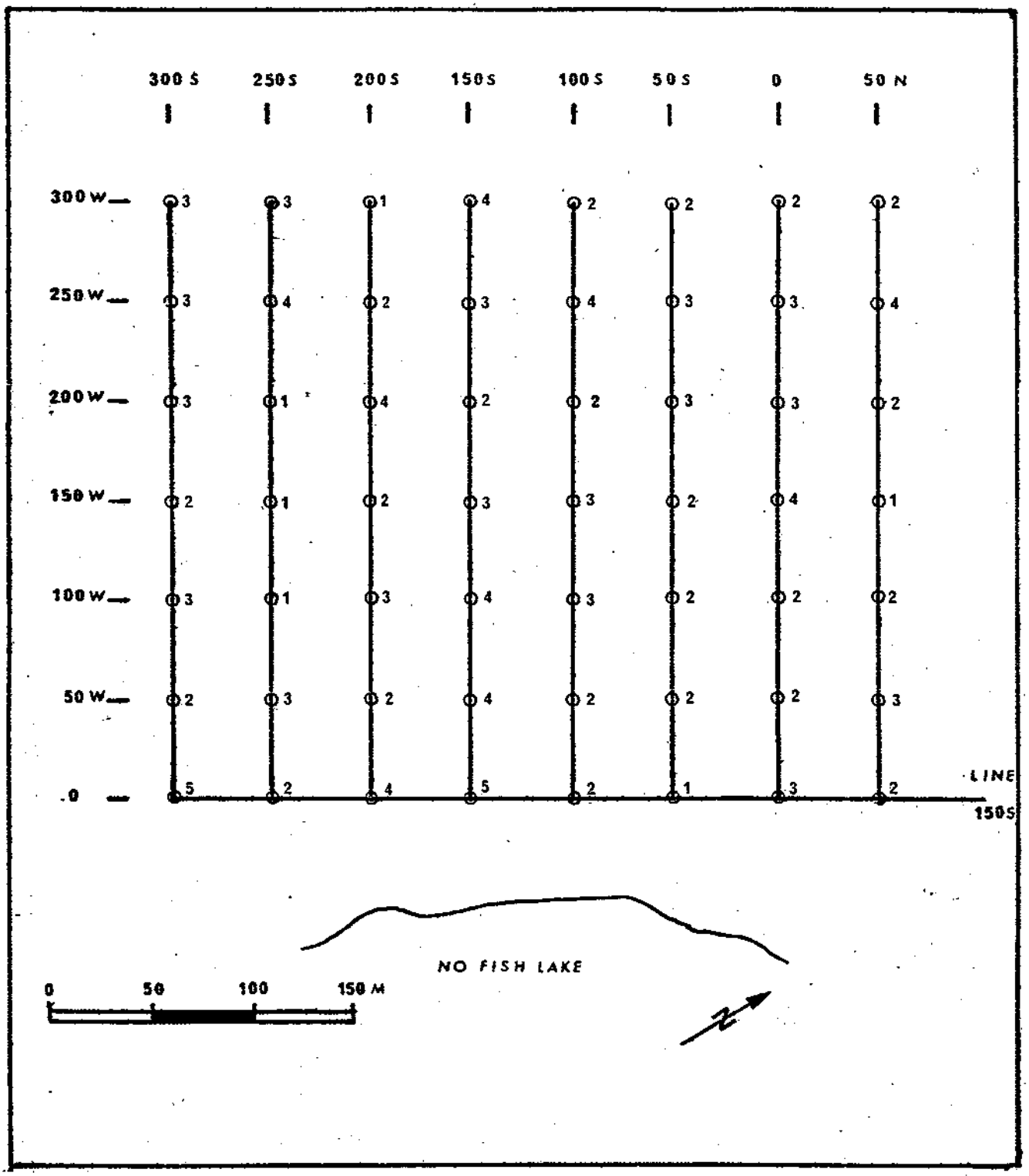


FIGURE

NO FISH GRID

COPPER (ppm)

J. H. MONTGOMERY, P.ENG

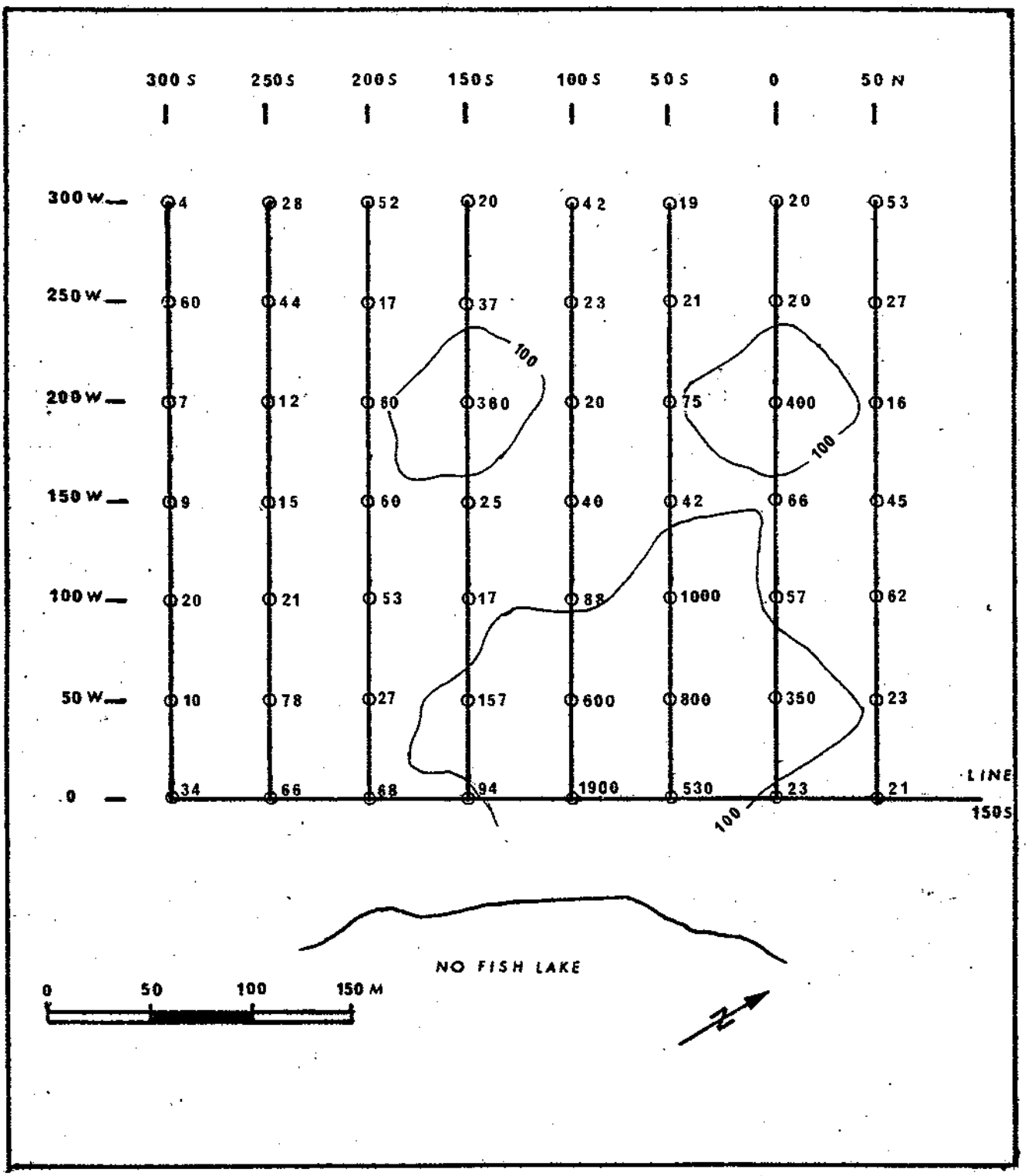


FIGURE

NO FISH GRID

MOLYBDENUM (ppm)

J. H. MONTGOMERY, P.ENG

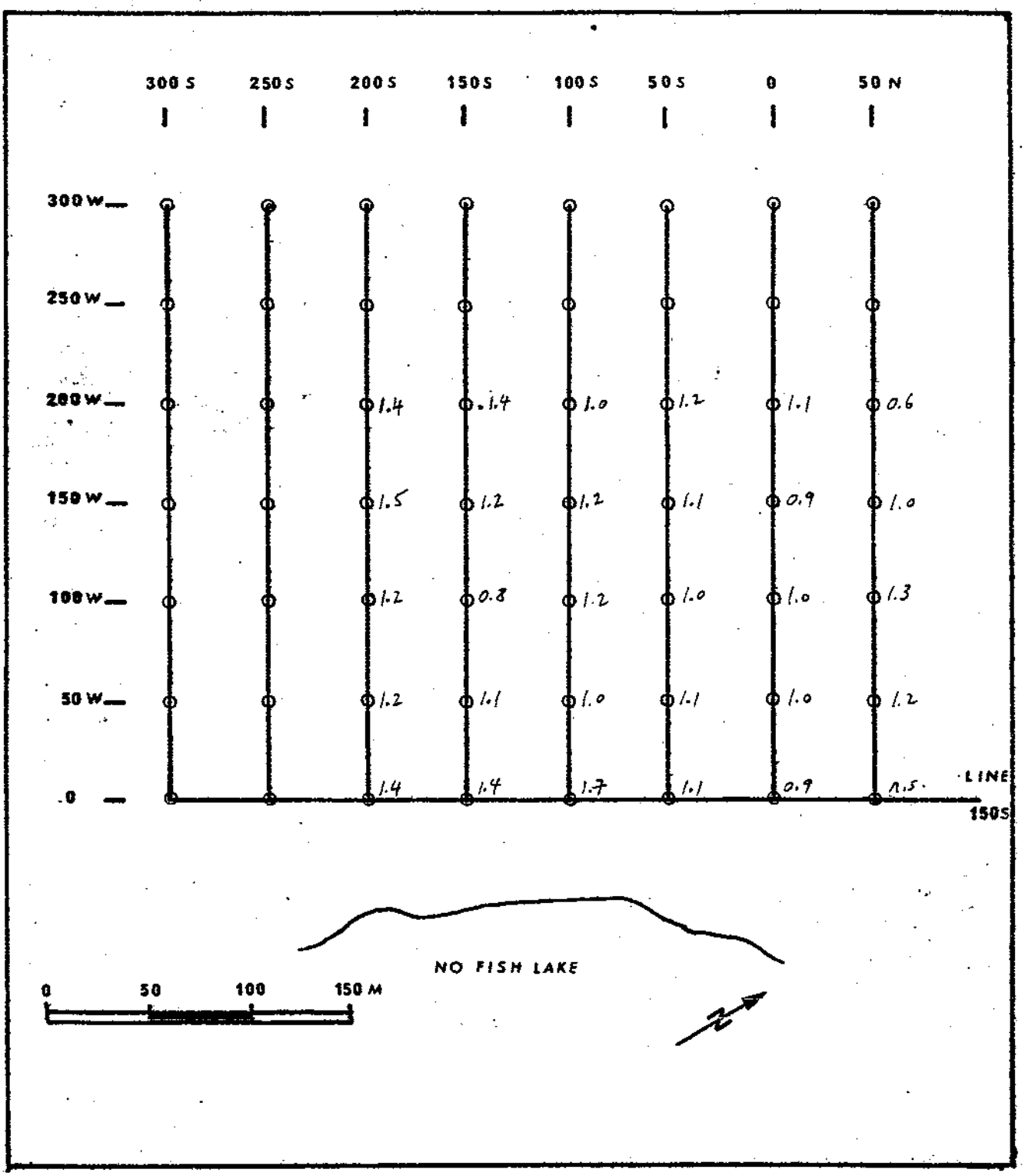


FIGURE

NO FISH GRID

ARSENIC (ppm)

J. H. MONTGOMERY, P.ENG.

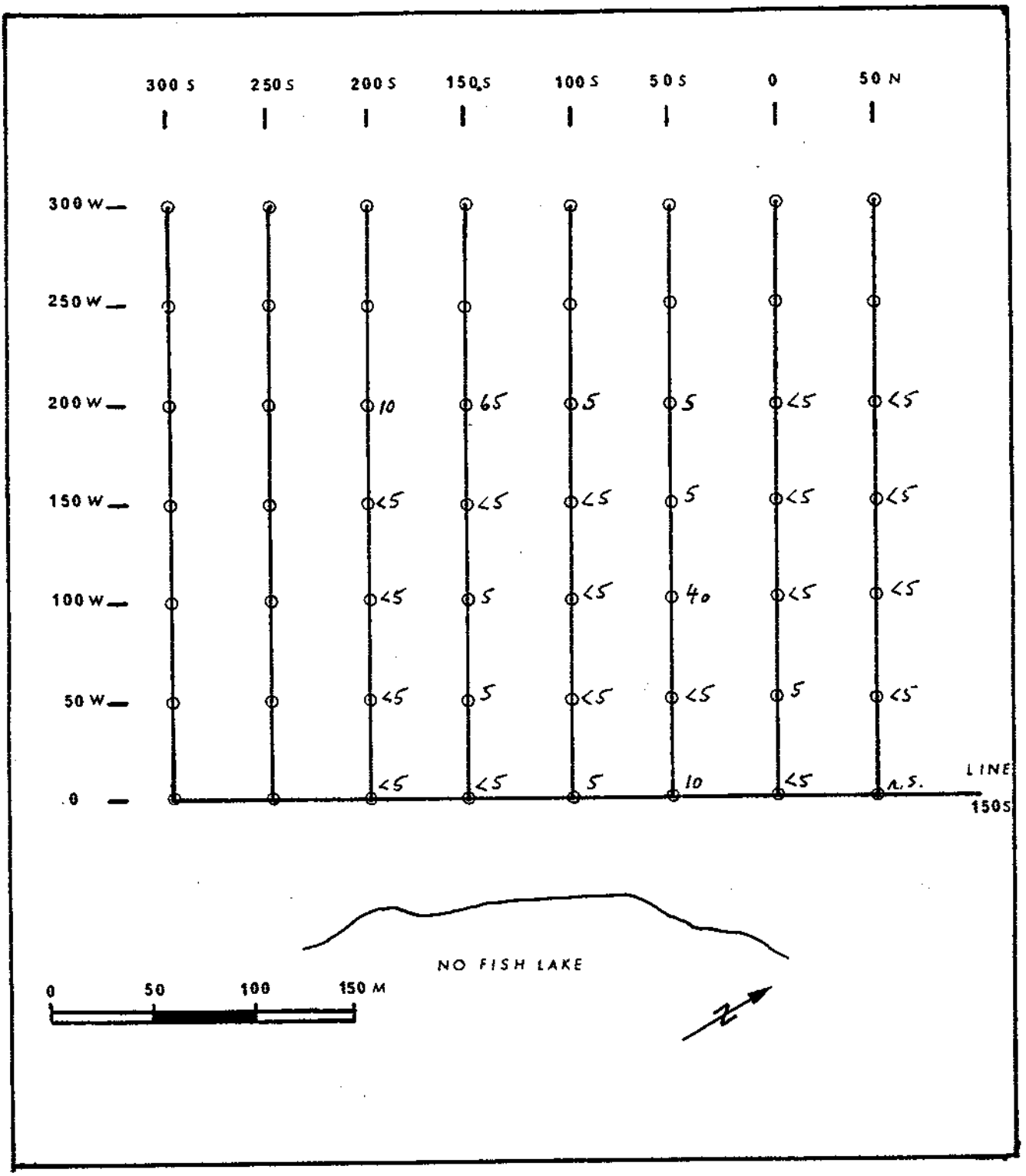


FIGURE

NO FISH GRID

silver in soils
in ppm

J. H. MONTGOMERY, P.ENG.

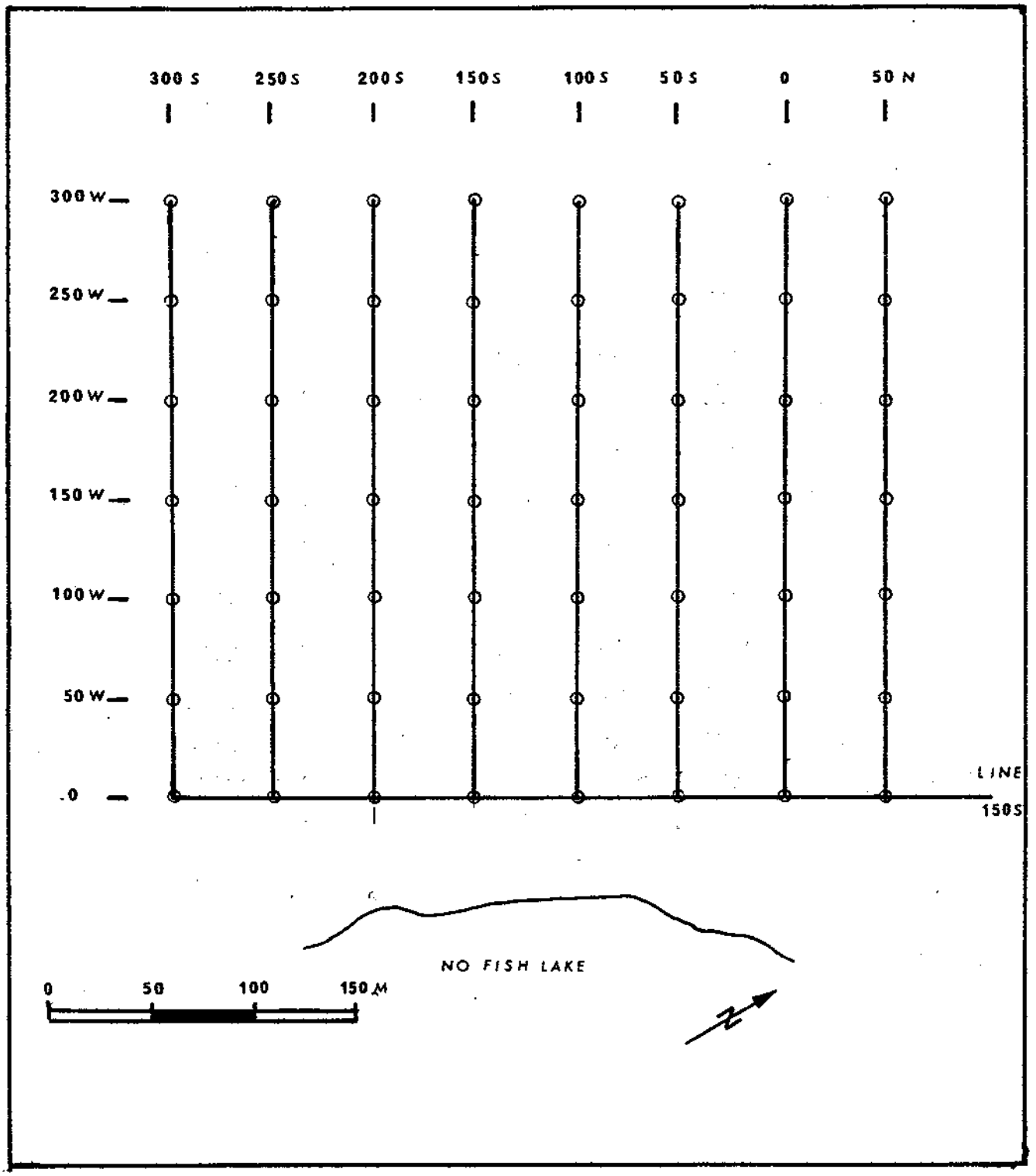


FIGURE

NO FISH GRID

gold in soils
in ppb

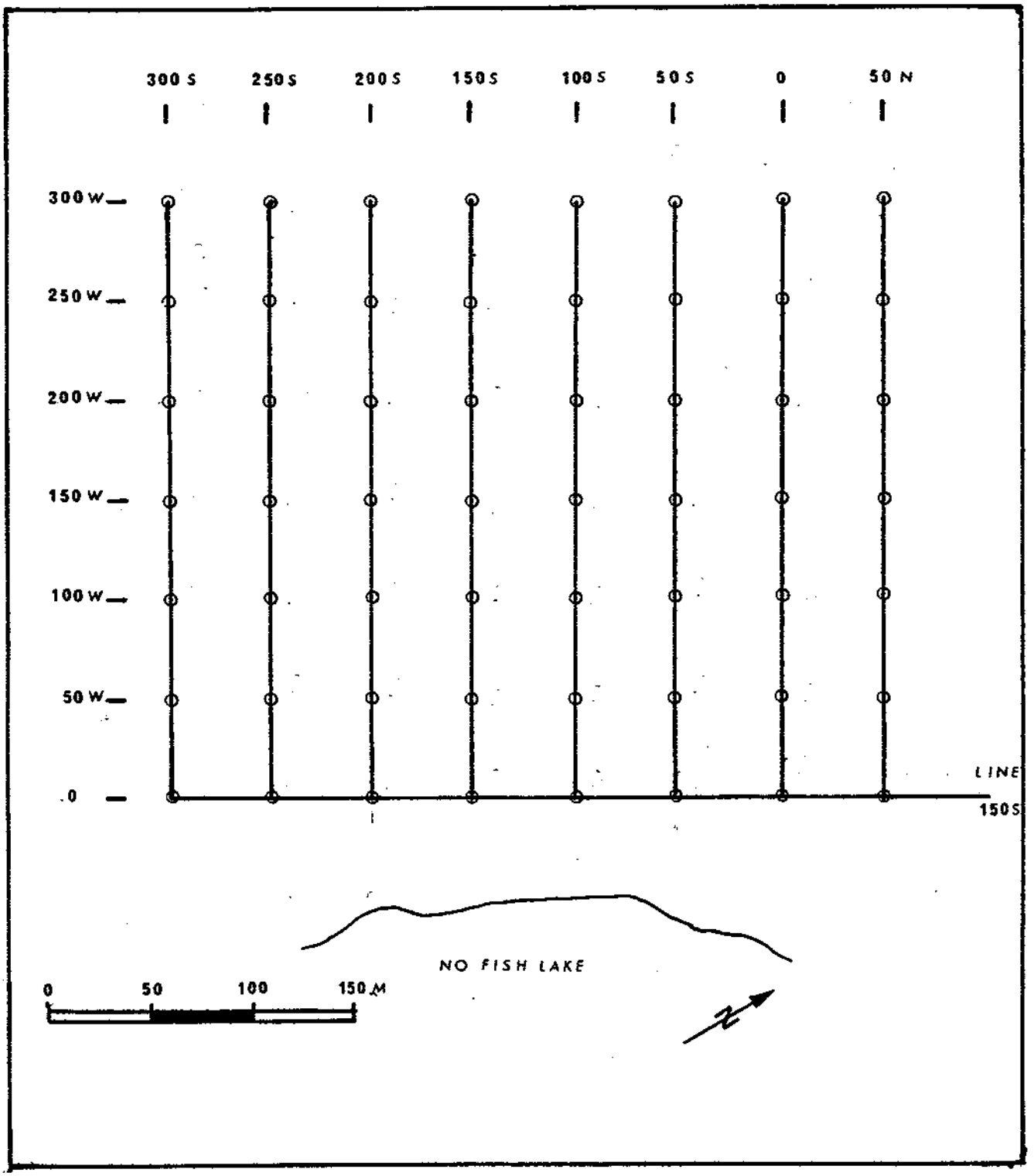
J. H. MONTGOMERY, P.ENG.



FIGURE

NO FISH GRID

J. H. MONTGOMERY, P.ENG



FIGURE

NO FISH GRID

J. H. MONTGOMERY, P.ENG

5.22 Results of Recent Work

No significant anomalies were detected in the samples taken. (see Figures 10 through 12).

5.23 Recommendations

No further work is recommended in this area.

5.3 Nora Grid Area

5.30 Previous Work

A great deal of previous work was carried out in the area between Deer Lake and Nora Lake and to the south of this area. The most significant anomaly reported, between Pauline Lake and Nora Lake, was a coincident combination of the following:

a) a copper anomaly in the soil

b) a molybdenum anomaly in the soil

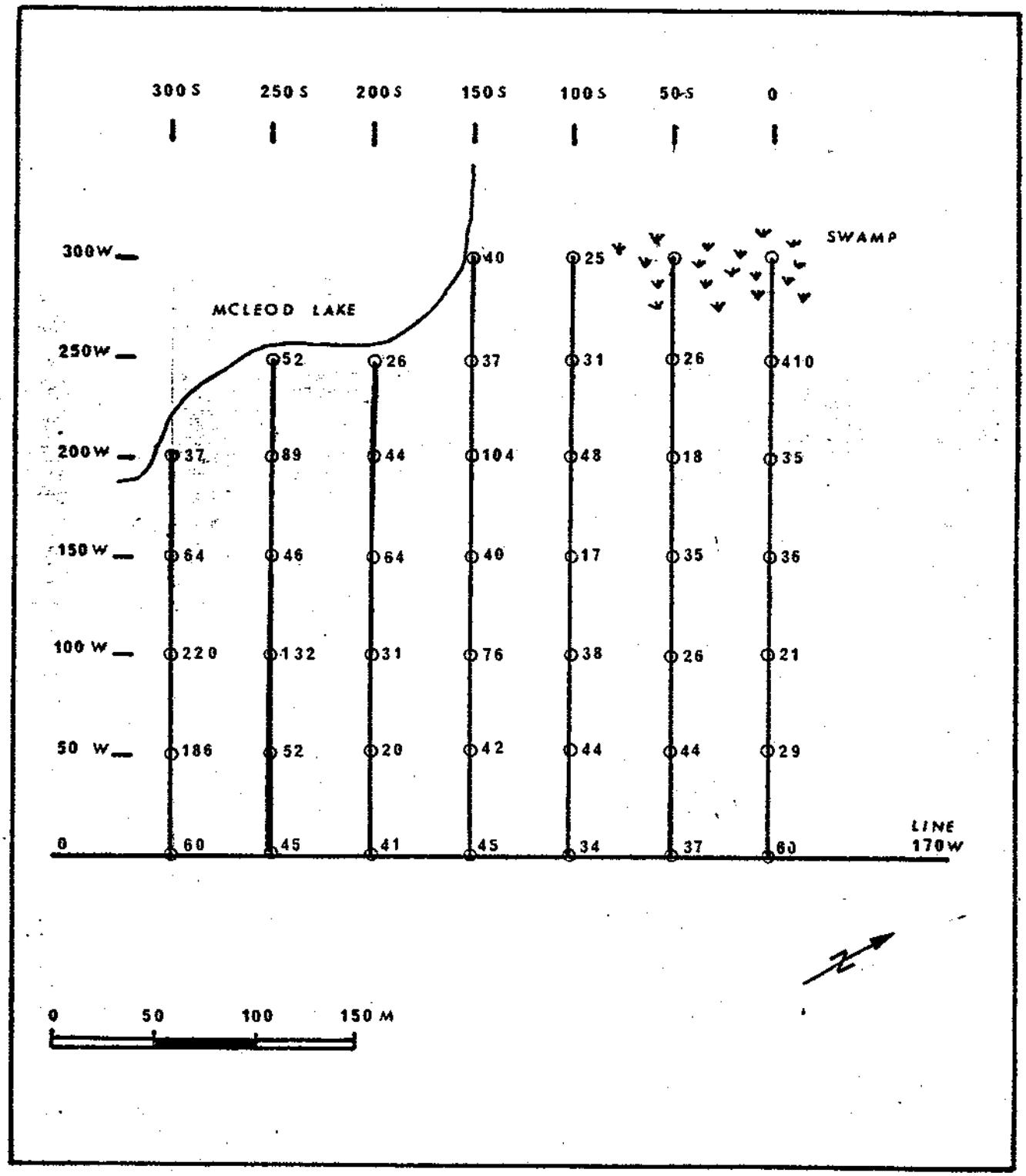
c) an area of anomalous high magnetic values

d) an apparent induced polarization anomaly

5.31 Recent Work

5.310 Geochemistry

A control grid was established over the reported anomalous area and further soil sampling was carried out.(see Figure 2 for



FIGURE

MCLEOD GRID

COPPER (ppm)

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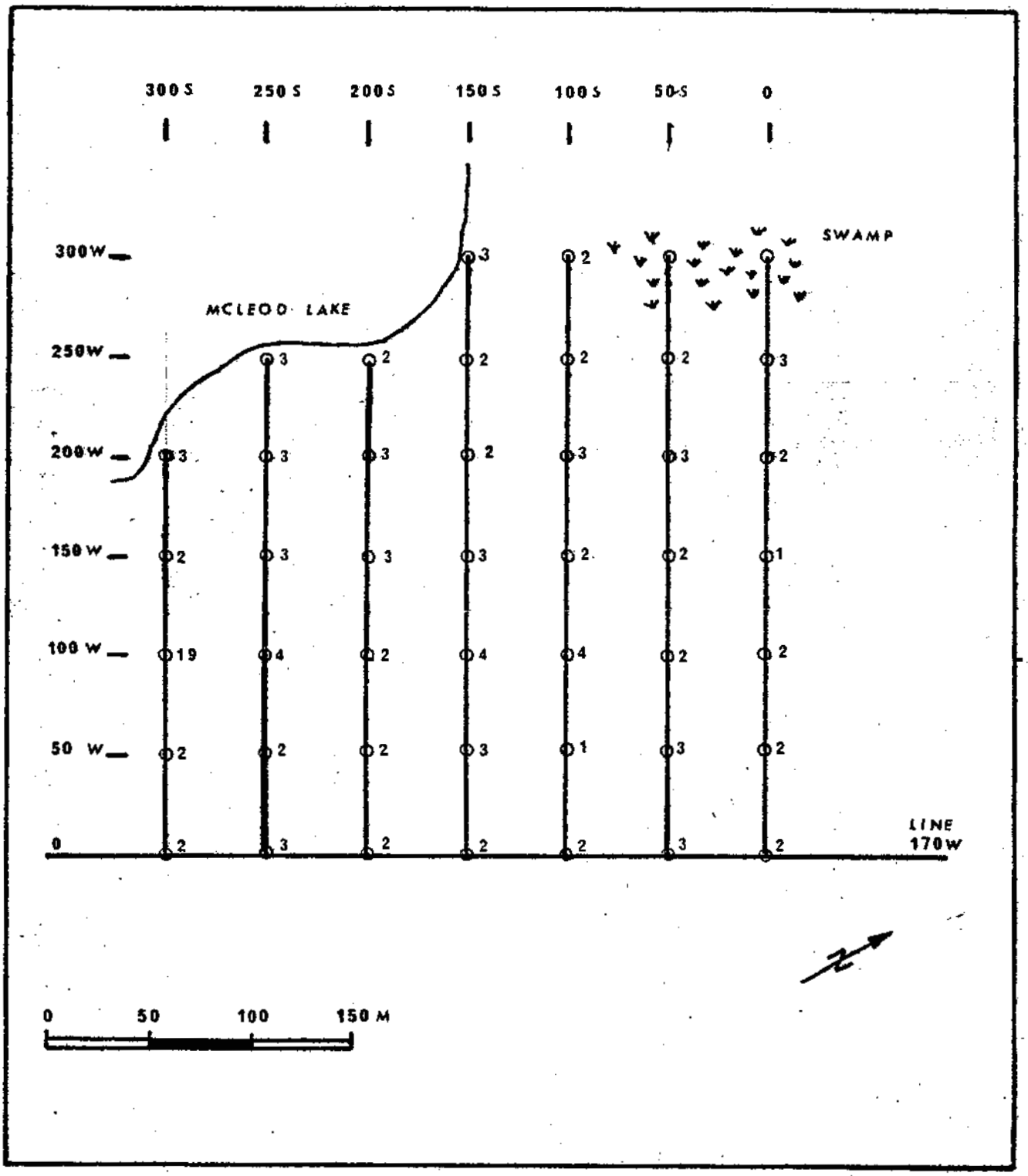
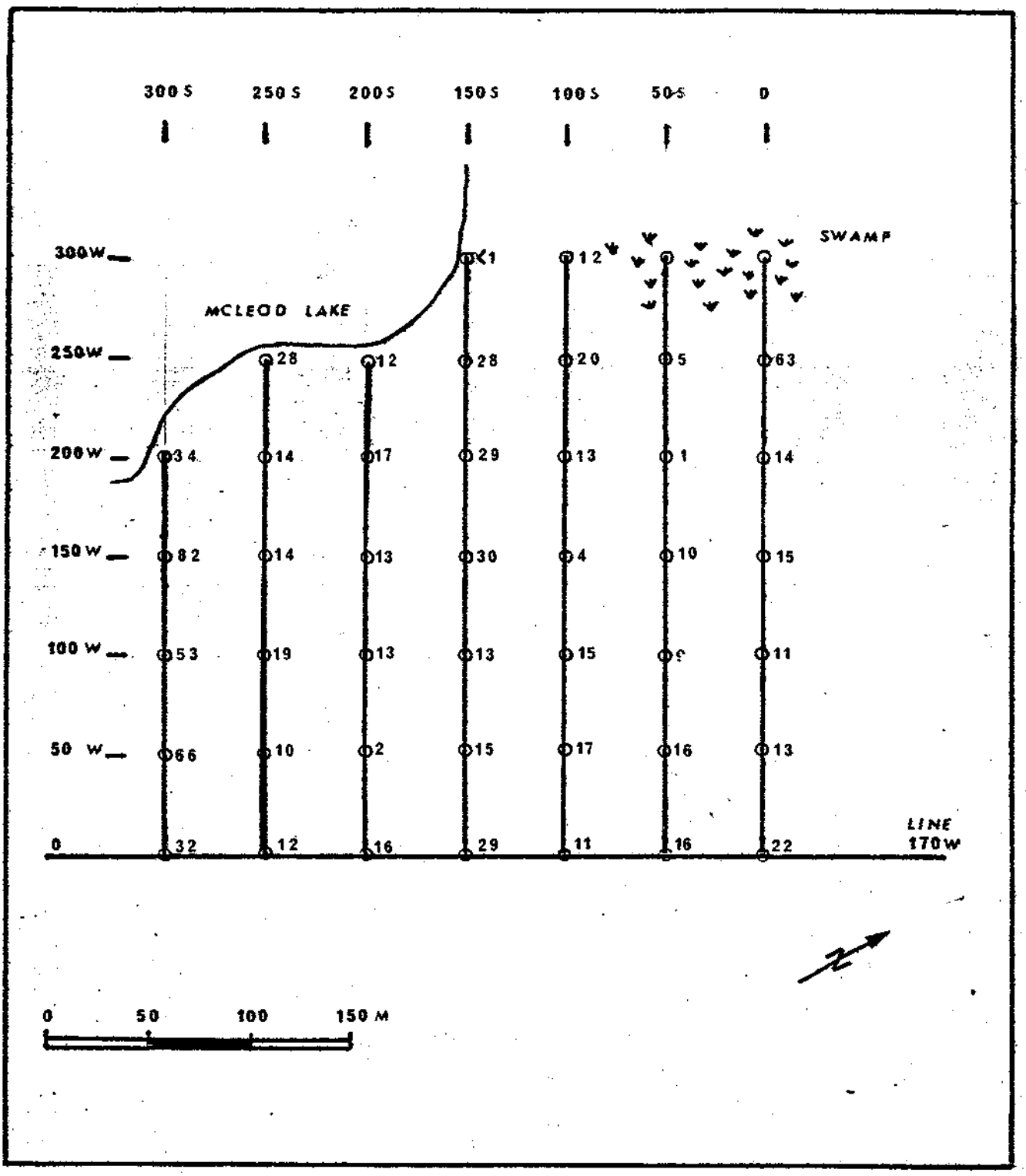


FIGURE

MCLEOD GRID

MOLYBDENUM (ppm)

J.H. MONTGOMERY, P.ENG.



FIGURE

MCLEOD GRID

ARSENIC (ppm)

J.H. MONTGOMERY, P.ENG.

grid location). All samples were analysed for copper, molybdenum and arsenic.

5.311 Geophysics

A magnetic survey was carried out over the grid area. Magnetic readings were corrected using readings taken on a second instrument at a fixed base station.

5.32 Results of Recent Work

A few isolated high values for copper, gold and molybdenum were detected in the soil(see Figures 13 and 14). No significant arsenic values were detected(see Figure 15).

Two small, intense magnetic anomalies were detected(see Figure 16). A value of +10,300γ was detected at grid location 900W,450N (Anomaly I), and a value of -9,750γ was detected at 700W,250N (Anomaly II). These two anomalies were detailed by follow-up work.

5.33 Follow-up Work

Both Anomalies I and II were detailed and further soil samples were taken on the detail grids. These samples were analysed for copper and arsenic. Detailed magnetic readings were taken as well.

5.34 Results of Follow-up Work

Anomaly I had no significant copper or arsenic values(see Figures 17 and 18). Detailed magnetic readings over Anomaly I delineated a magnetic "crossover" pattern with its axis on grid line 450N. This "crossover" reaches a low of -10,100 γ at grid location 450N,975W and a high of +6,800 γ at grid location 450N, 925W(see Figure 19).

Anomaly II had no significant copper or arsenic values(see Figures 20 and 21). Detailed magnetic readings over Anomaly II delineated a small (25 metre square) magnetic depression of -5570 γ at grid location 250N,750W(see Figure 22).

5.35 Recommendations

Since the magnetic anonalies are small, have no geochemical backup, and occur in an area that has been drilled previously by Rio Tinto, with poor results, no further work is recommended in this survey area

5.4 Deer Lake(West) Area

5.40 Previous Work and Results

A previous magnetic survey detected a long (1000 metres), narrow magnetic ridge to the west of Deer Lake. Subsequent

Figure

NORA GRID DETAIL
ANOMALY I
Copper in Soil (p.p.m.)

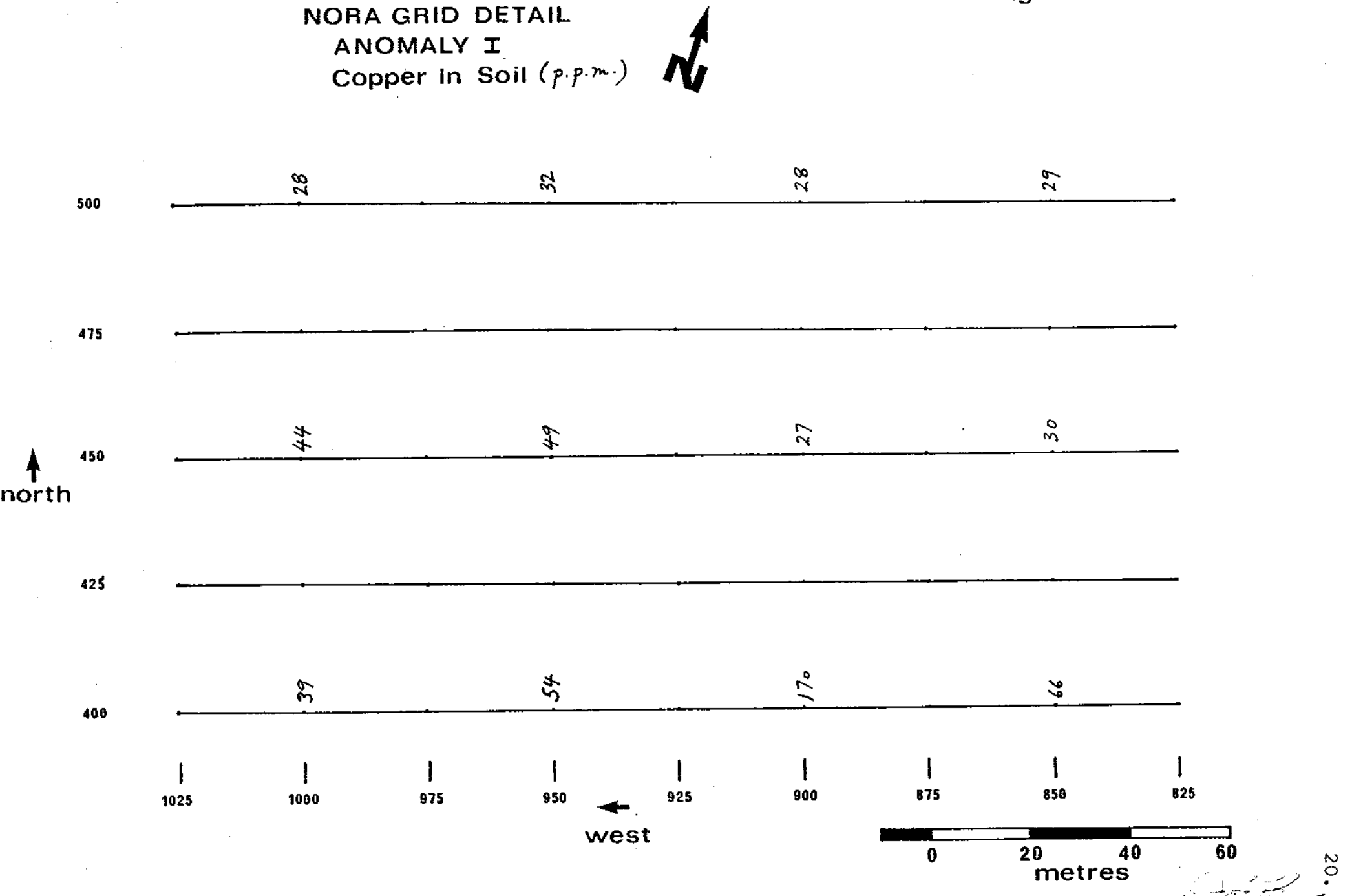


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Figure

NORA GRID DETAIL
ANOMALY I
Arsenic in Soils (p.p.m.)

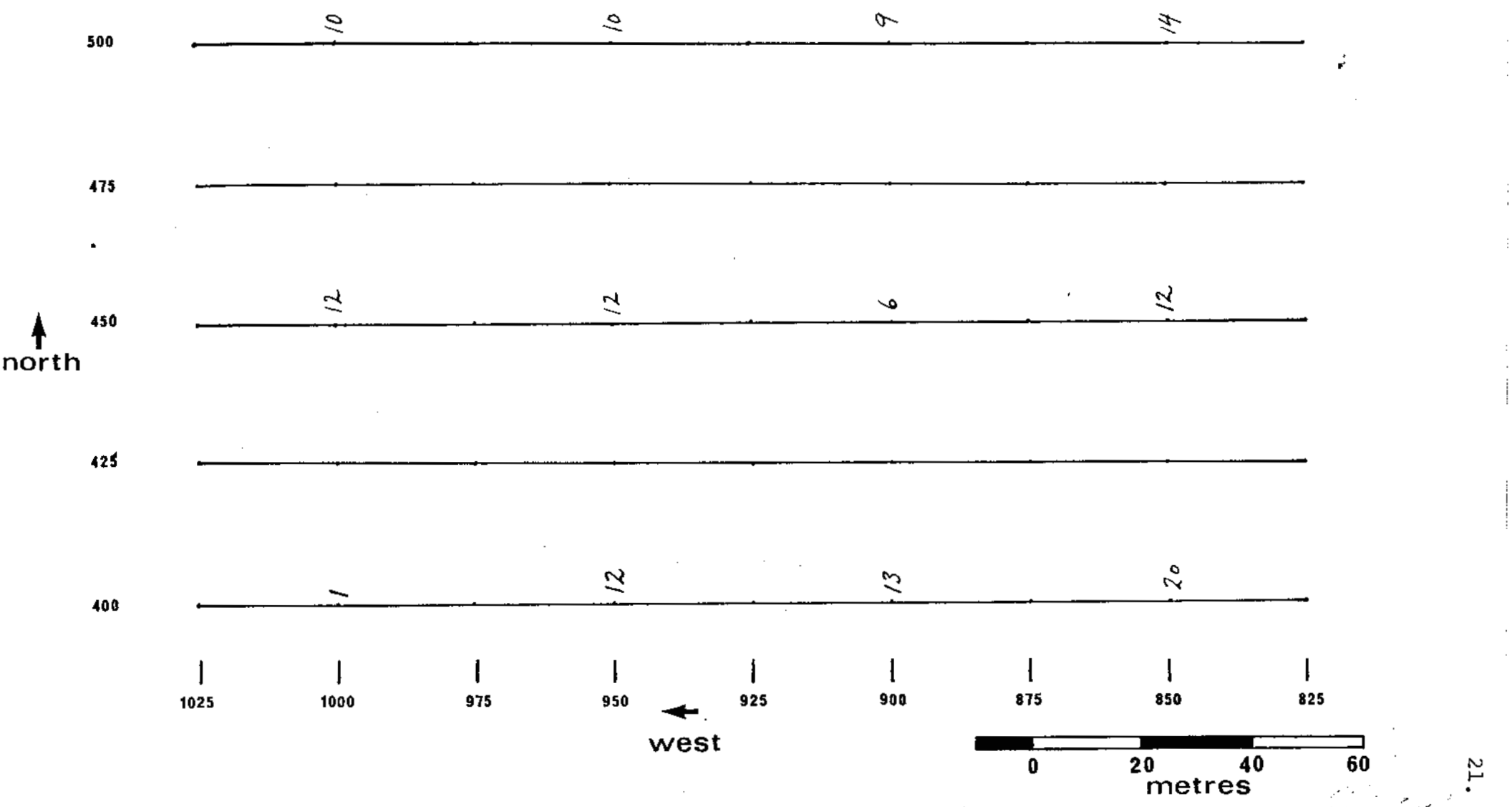

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Figure

NORA GRID DETAIL
ANOMALY I
Magnetic Plan

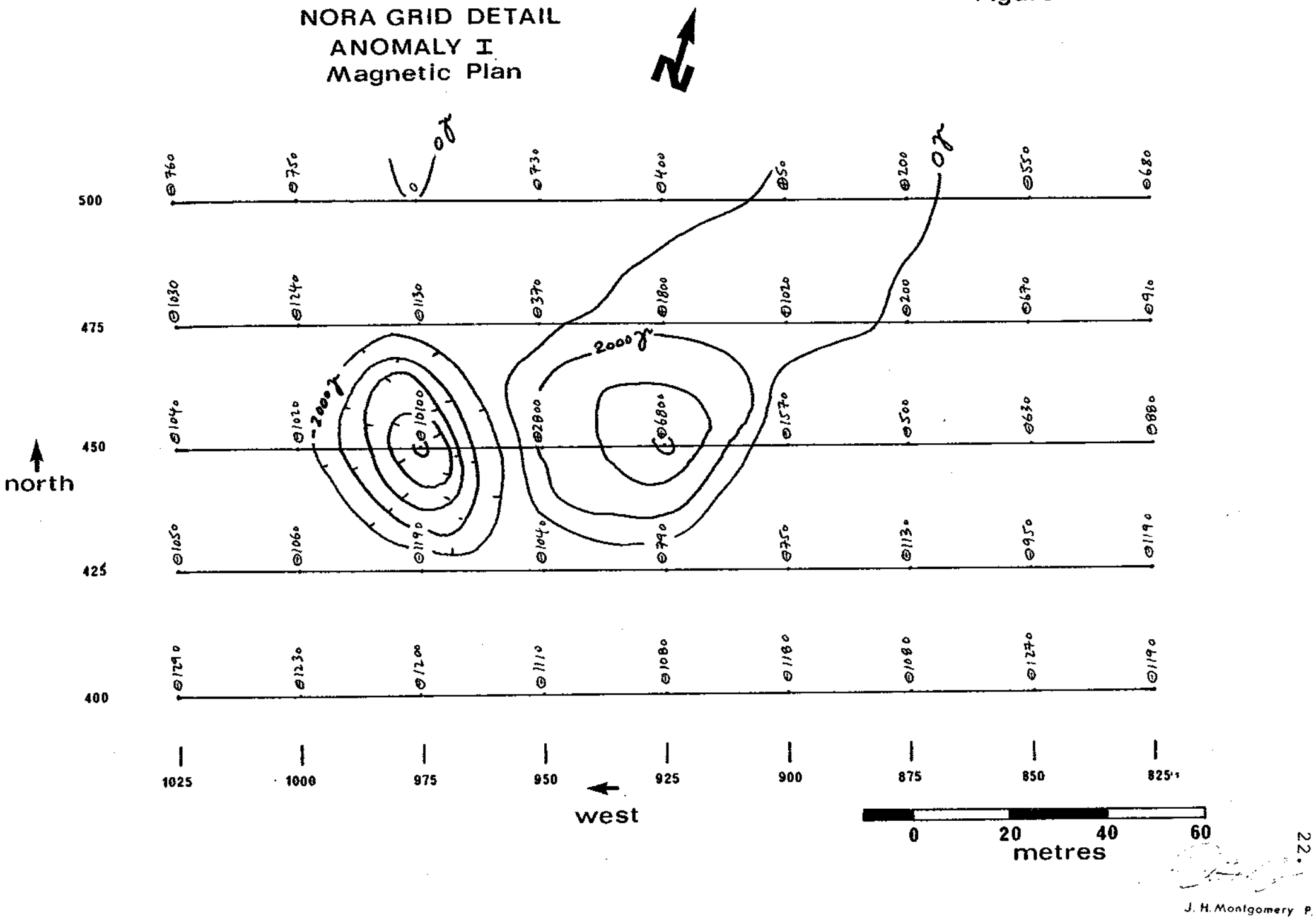

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Figure

NORA GRID DETAIL

ANOMALY II

Copper in Soils (p.p.m.)

23.

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Figure

NORA GRID DETAIL

ANOMALY II

Arsenic in Soils (p.p.m.)

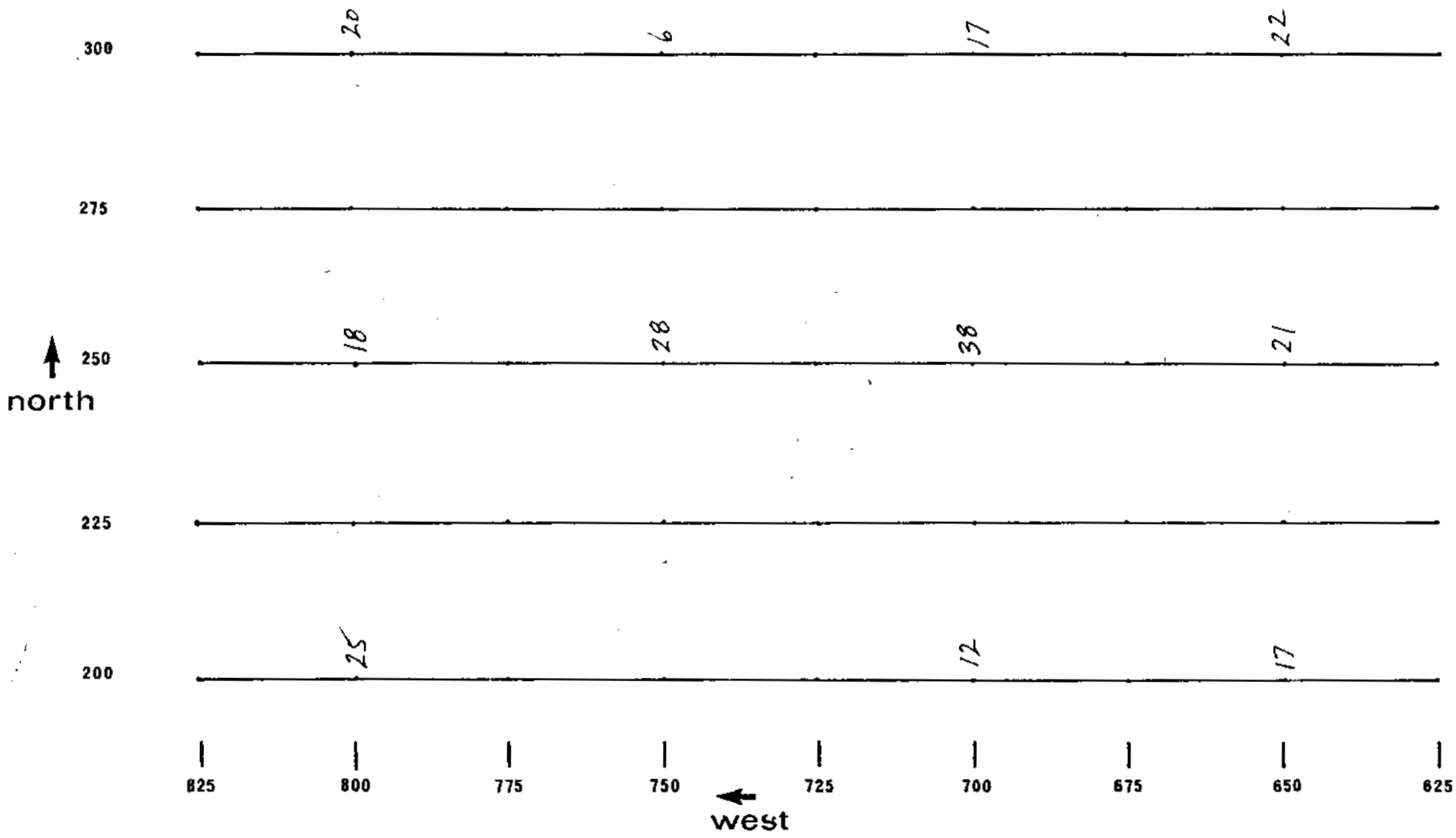

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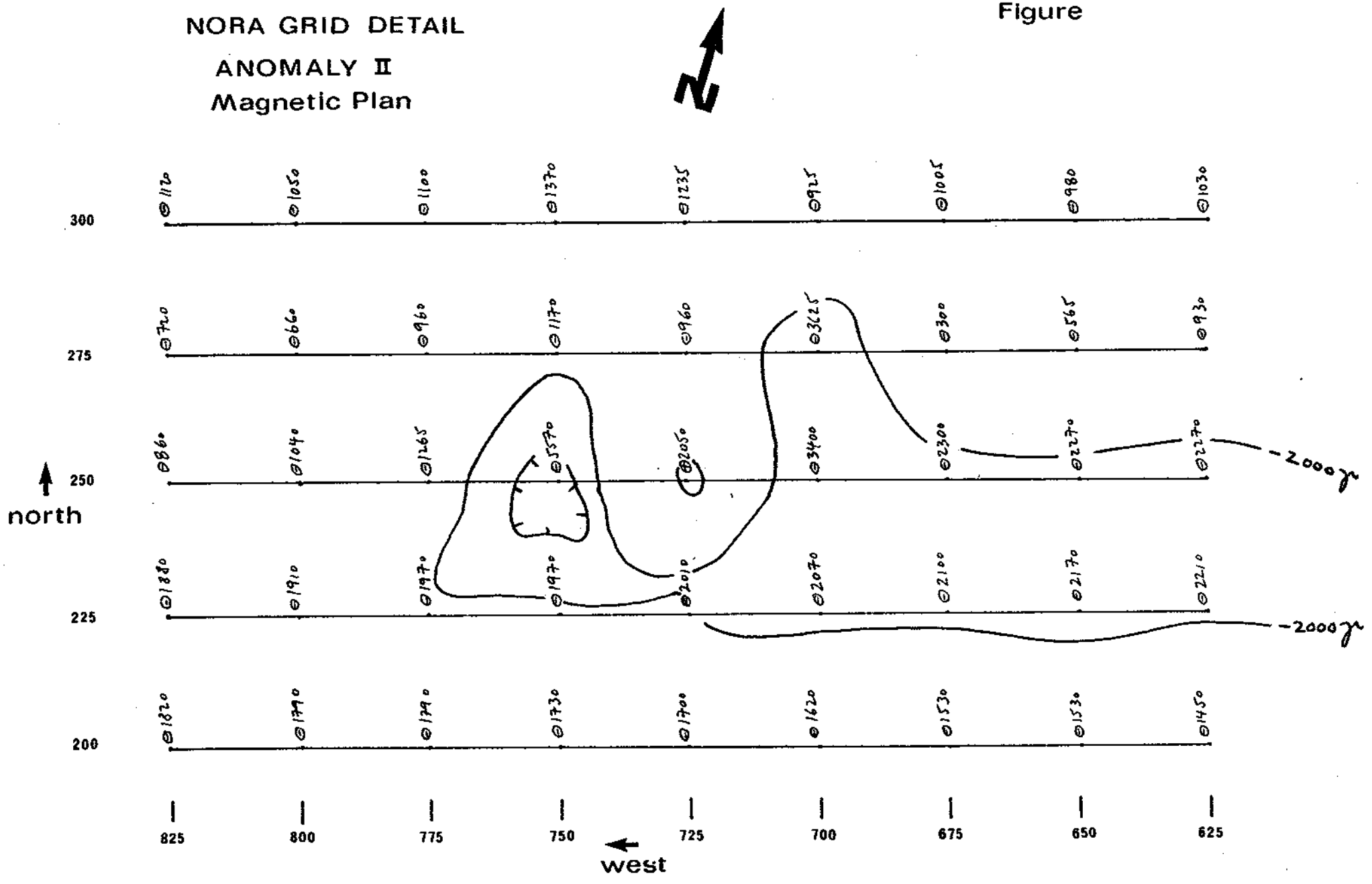
Figure

NORA GRID DETAIL

ANOMALY II

Magnetic Plan



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trenching revealed highly-magnetic skarn-type rock in the area of the anomaly.

5.41 Recent Work

Six control lines, 600 metres long and 200 metres apart were run over the previously-detected magnetic anomaly(see Figure 2). Soil samples were collected and analysed for copper(see Figures 29 through 31)and arsenic(see Figures 23 through 25). Magnetic readings were taken on the lines(see Figures 26 through 28).

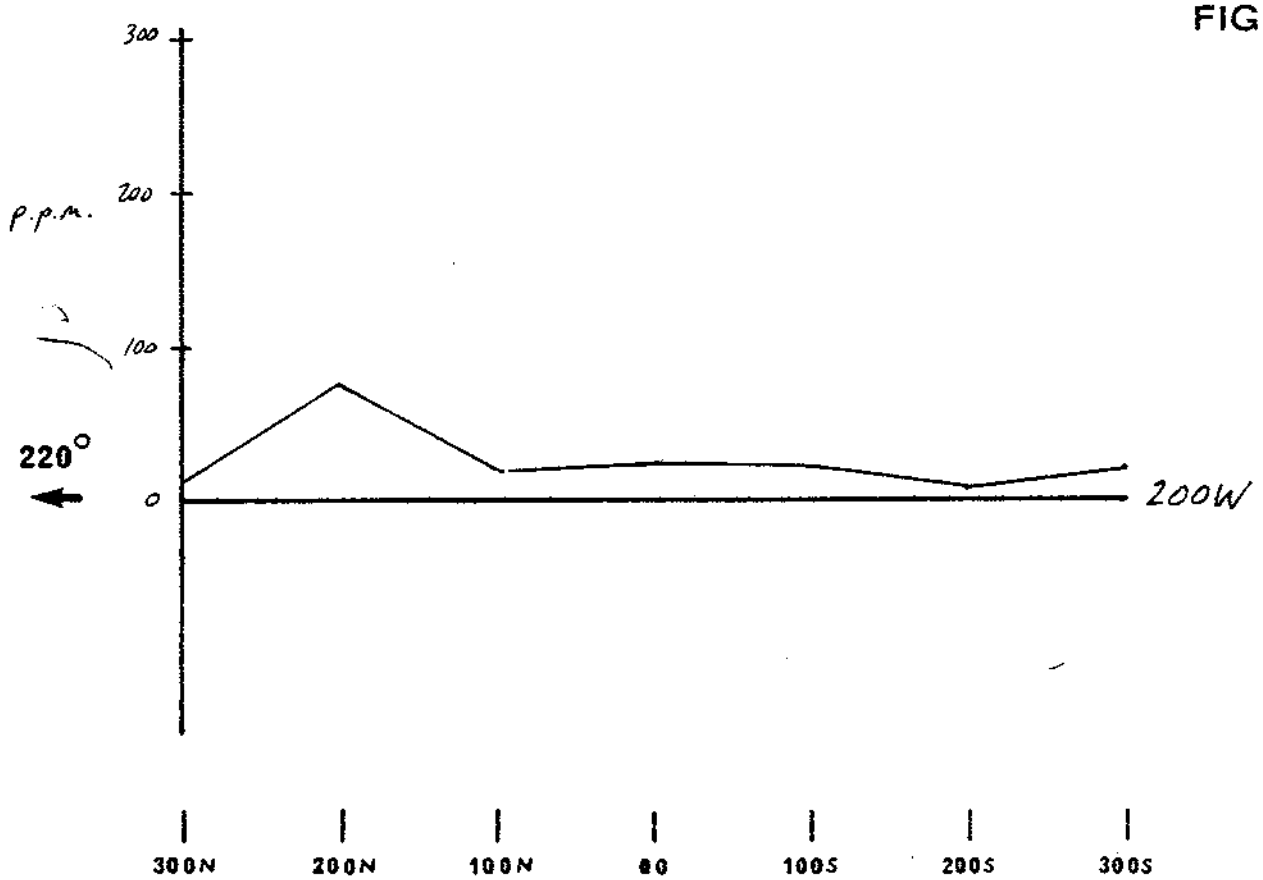
5.42 Results of Recent Work

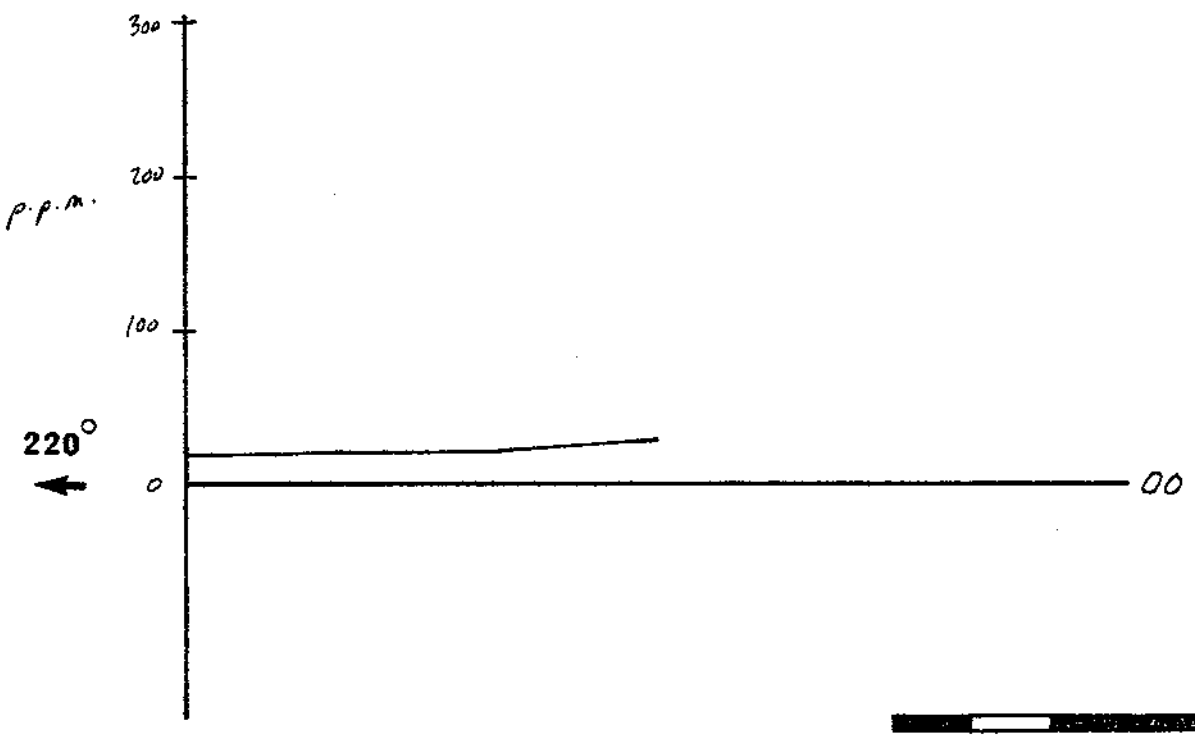
No significant arsenic values were detected in the soils(see Figures 23 through 25). Two anomalous magnetic zones with coincident high copper values in the soil were detected.

Anomaly I is centered on line location 400W,25S(see Figure 27). It is characterized by a magnetic peak of +8,800 γ at line location 400W,25S and a single high copper value of 220 P.P.M. at line location 400W,00S(see Figure 30).

Anomaly II is centered on line location 00,25N. It is characterized by a magnetic peak of +26,270 at line location 00,25N(see Figure 26) and a single high copper value of 225 P.P.M. at line location 00,00(see Figure 29). Both anomalies were detailed by follow-up work.

FIGURE





DEER LAKE GRID

Arsenic in Soil (profile)

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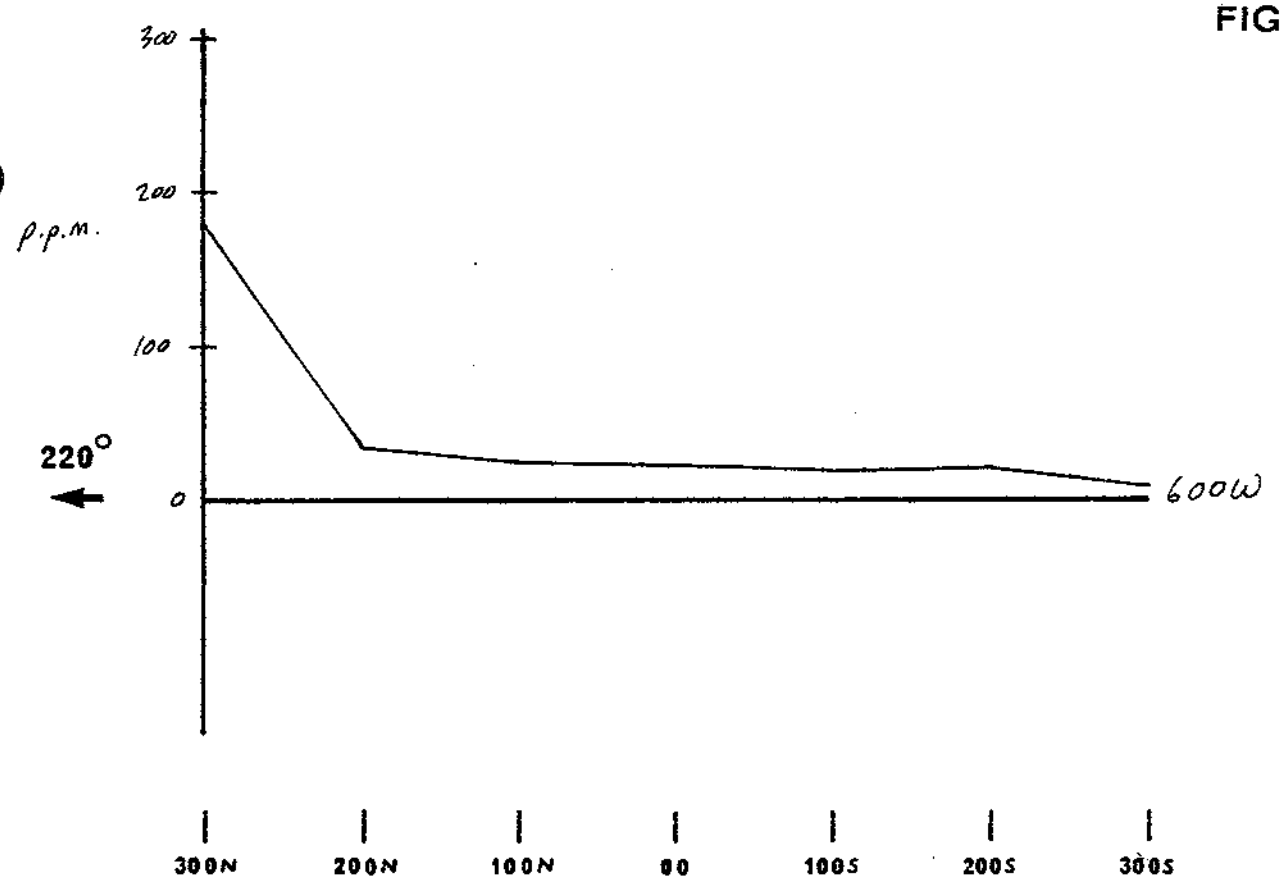
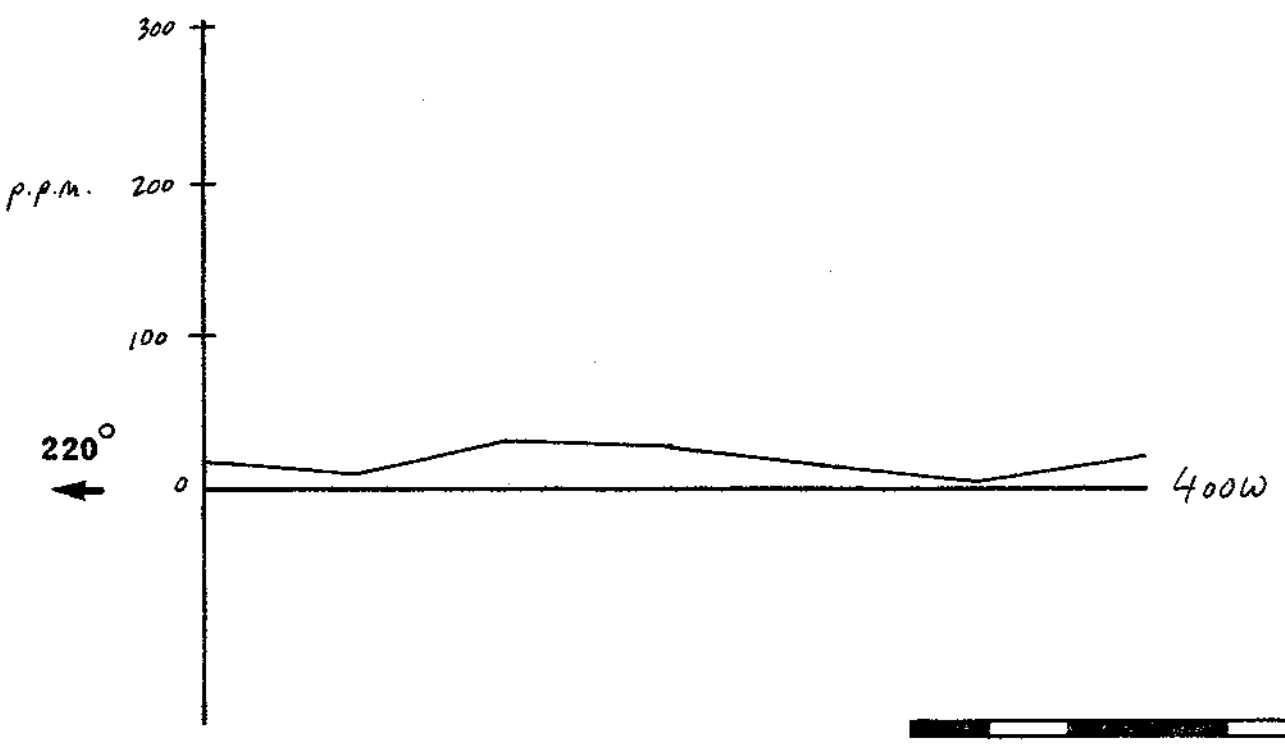
FIGURE





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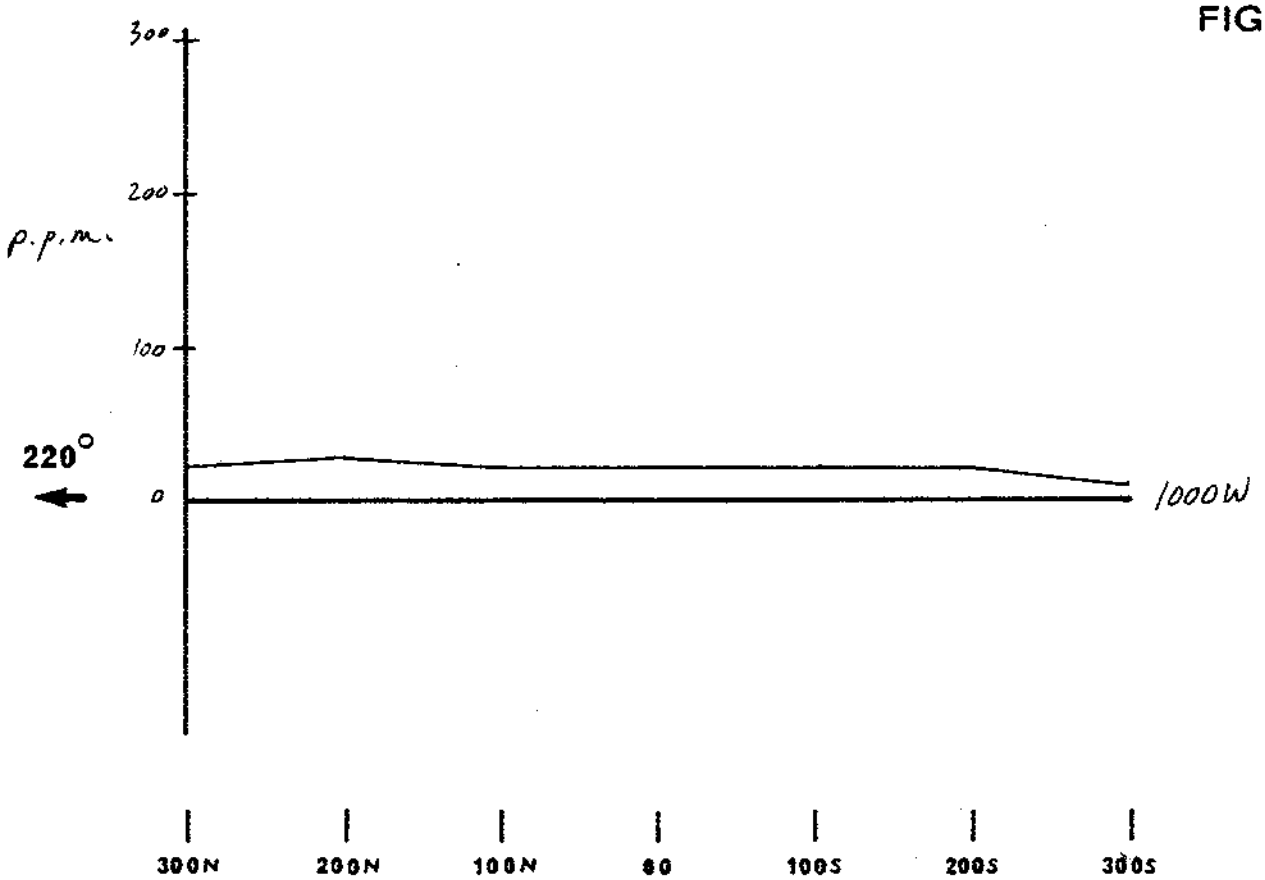
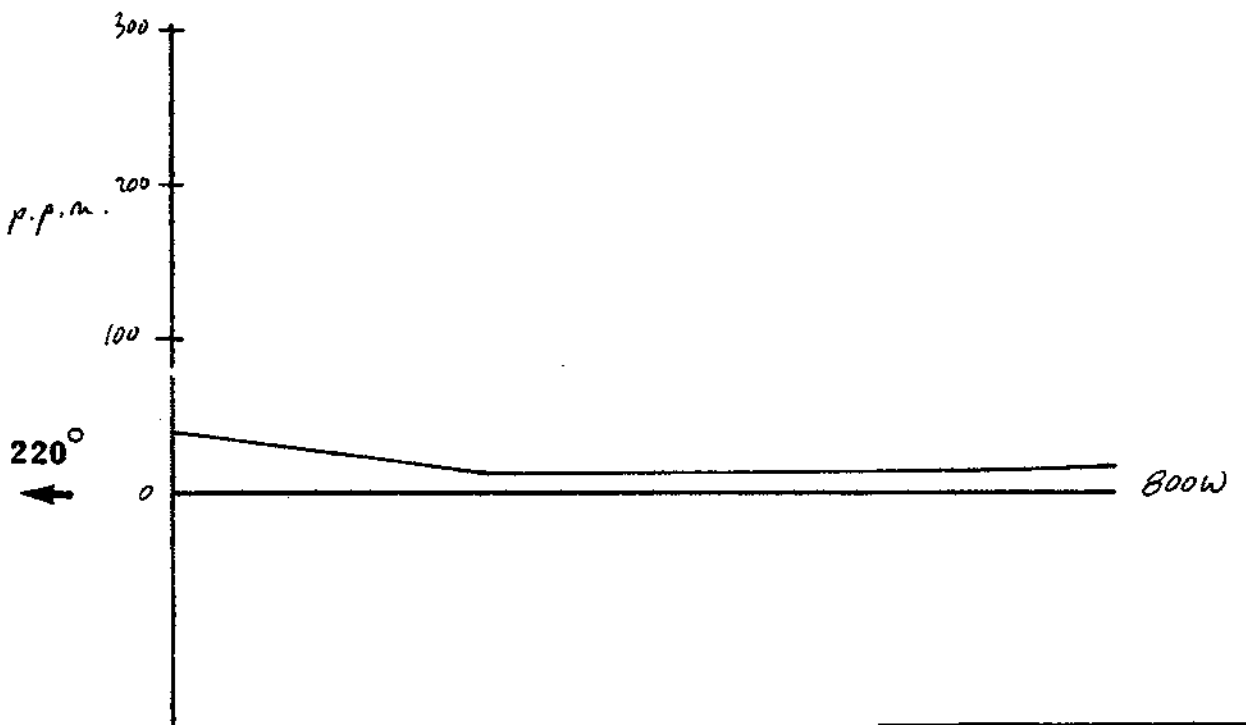
DEER LAKE GRID

Arsenic in soil (Profile)

FIGURE





0 100 200 300
metres

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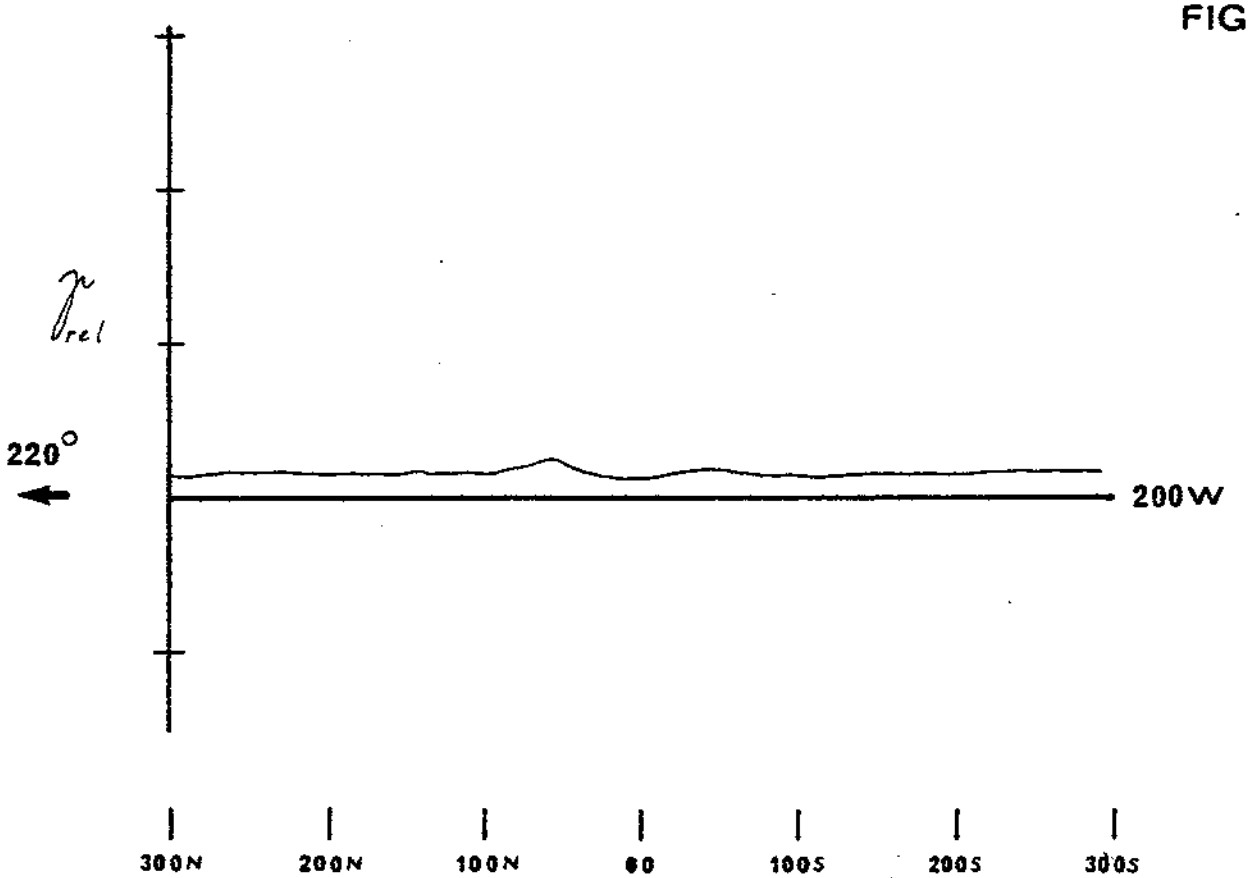
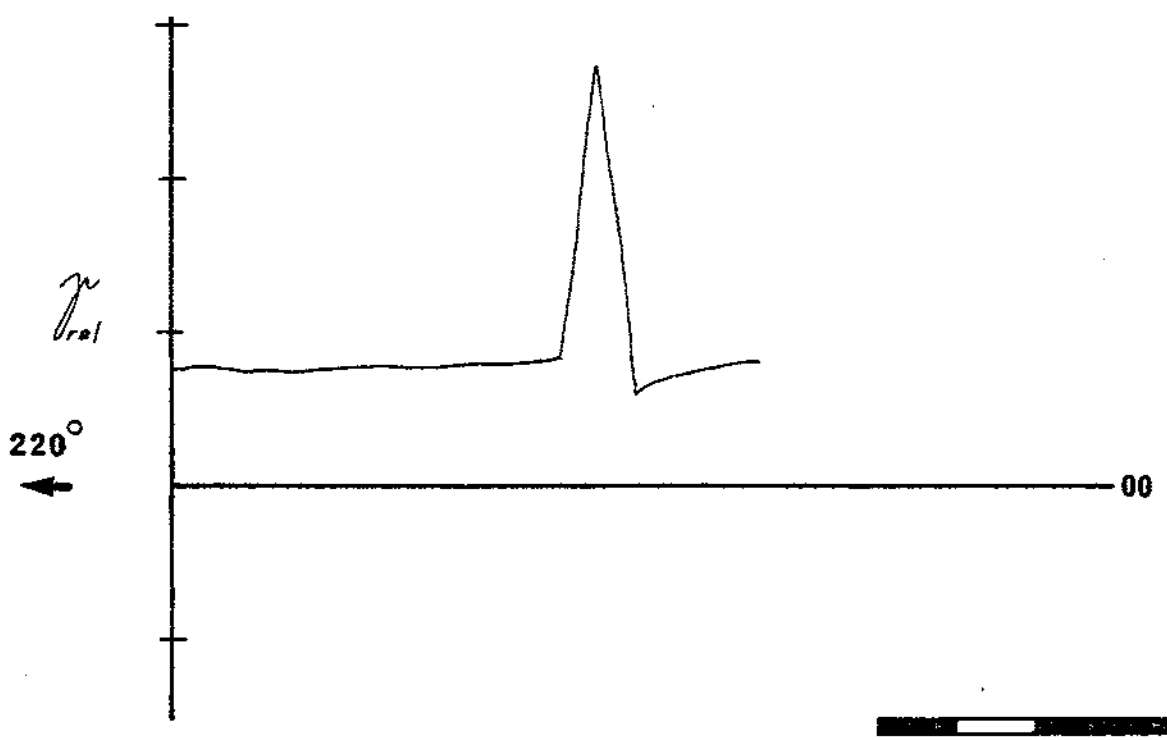
DEER LAKE GRID

Arsenic in Soil (Profile)

FIGURE





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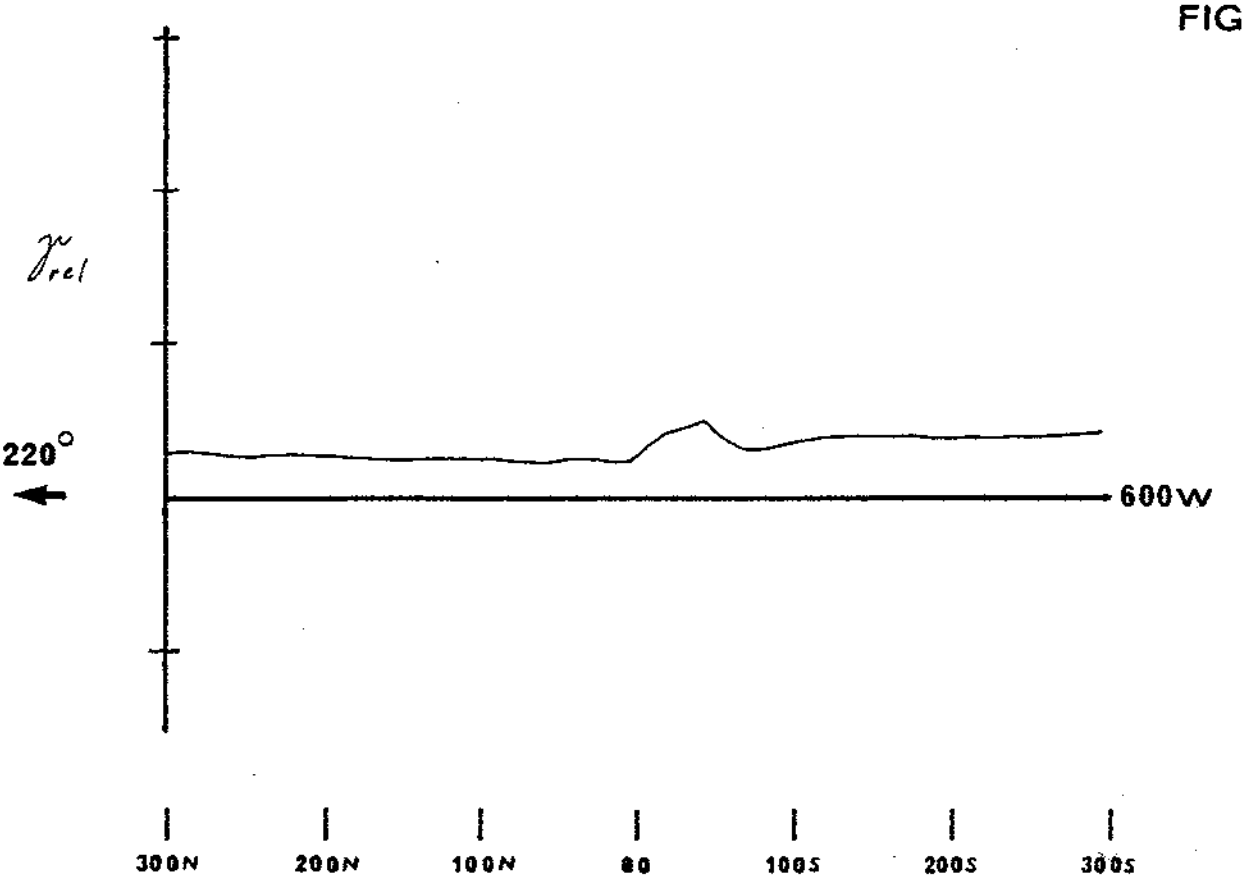
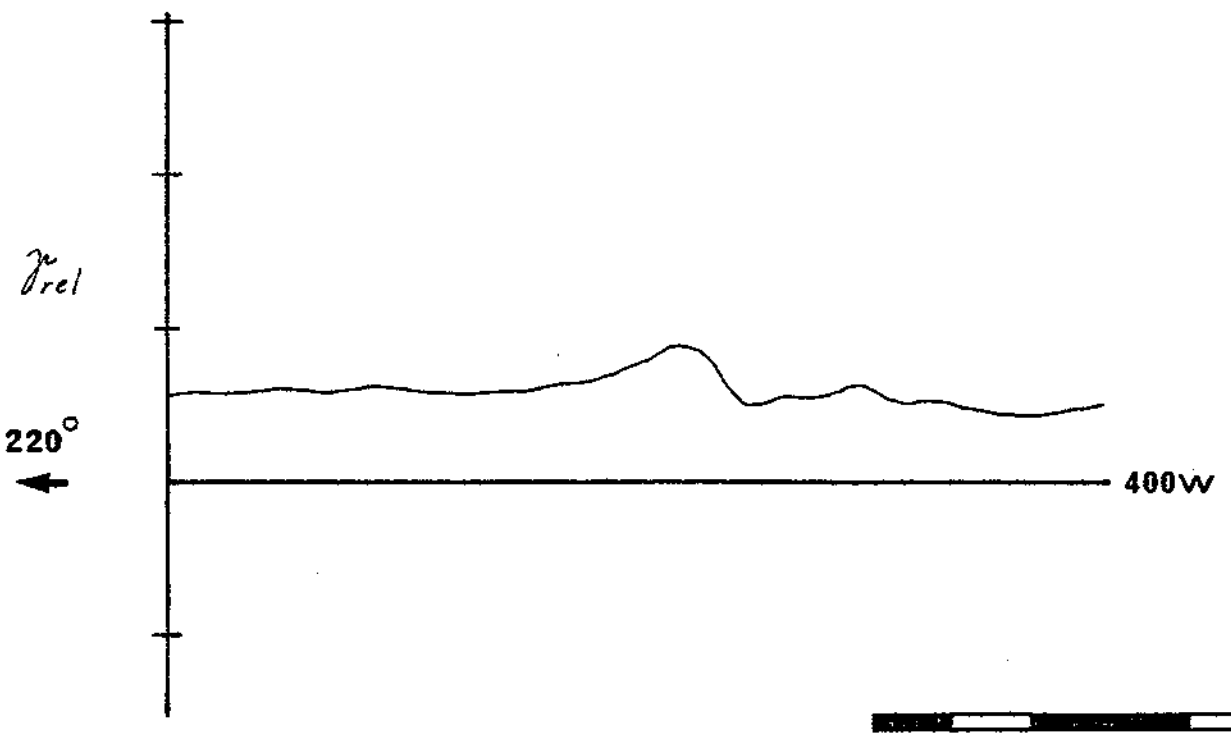
DEER LAKE GRID

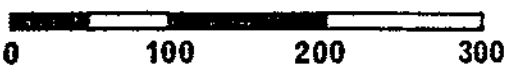
Magnetic Profiles

1 cm = 5 thousand γ_{rel}

FIGURE







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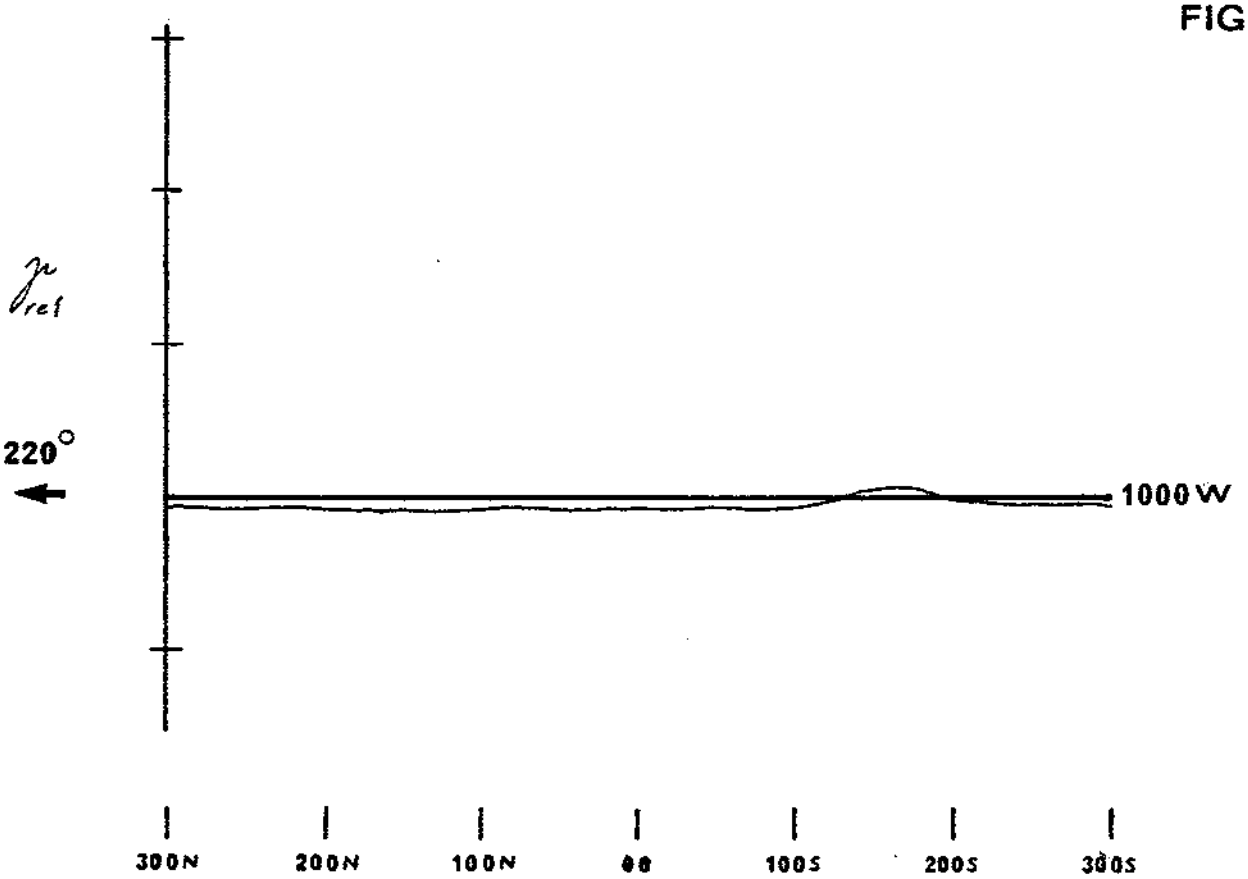
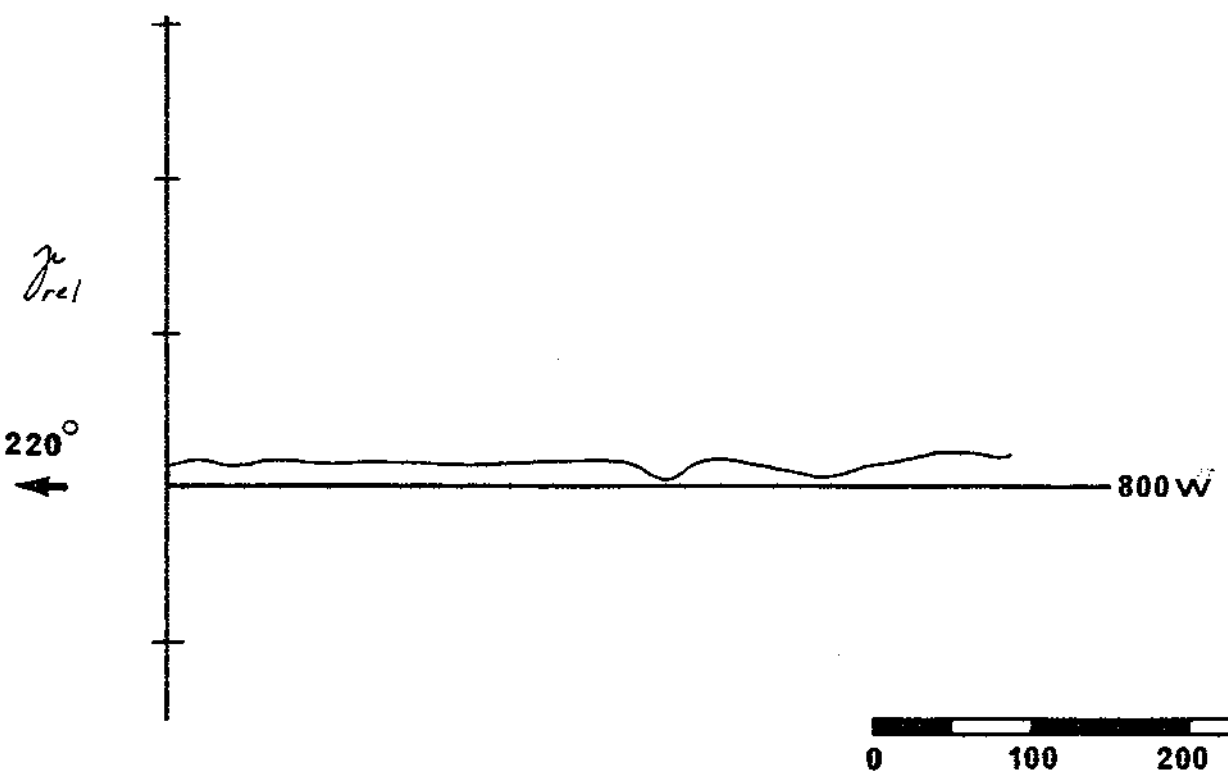
DEER LAKE GRID

Magnetic Profiles

1 cm = 5 thousand γ_{rel}

FIGURE





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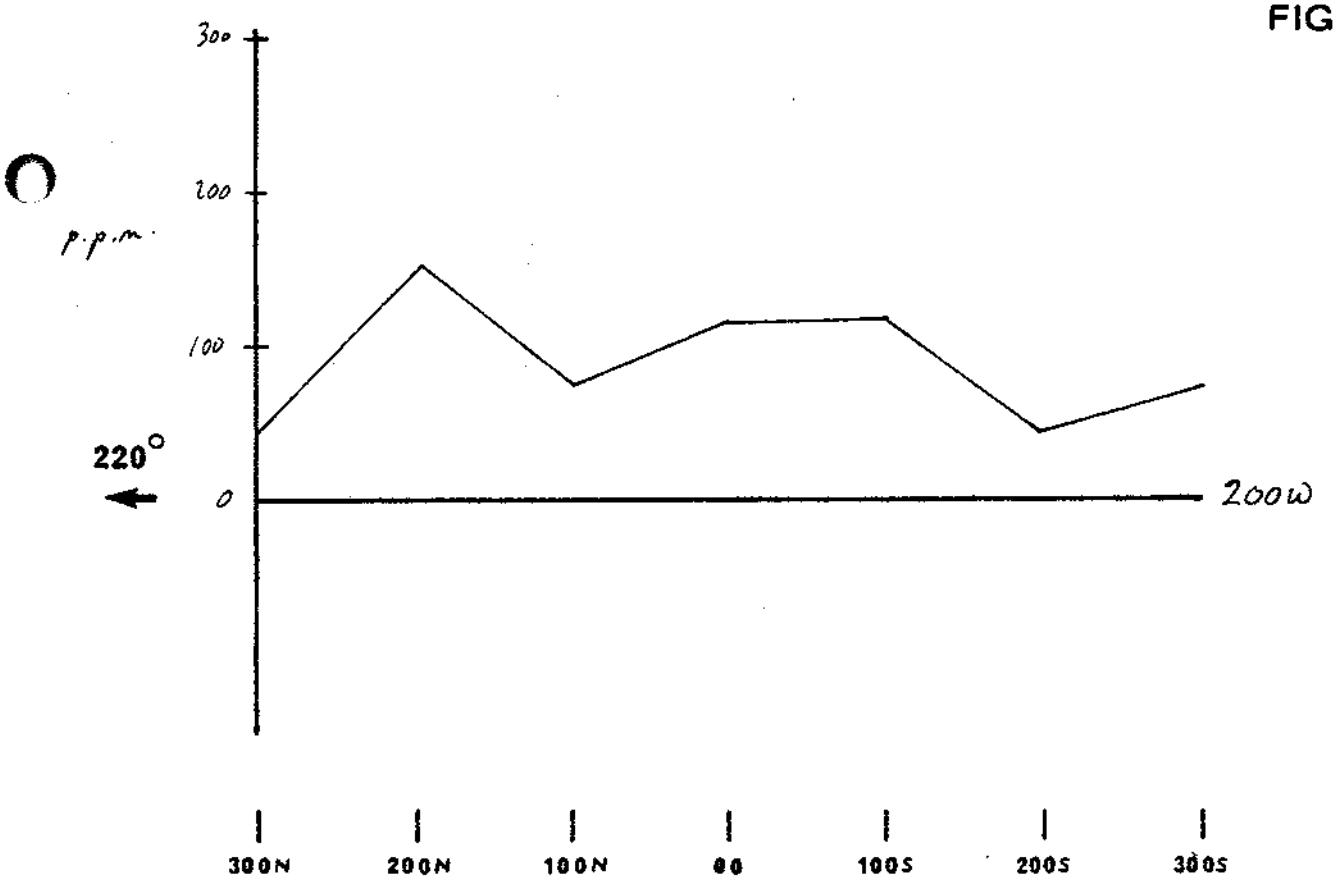
DEER LAKE GRID

Magnetic Profiles

1 cm = 5 thousand γ_{rel}

FIGURE



0 100 200 300
metres

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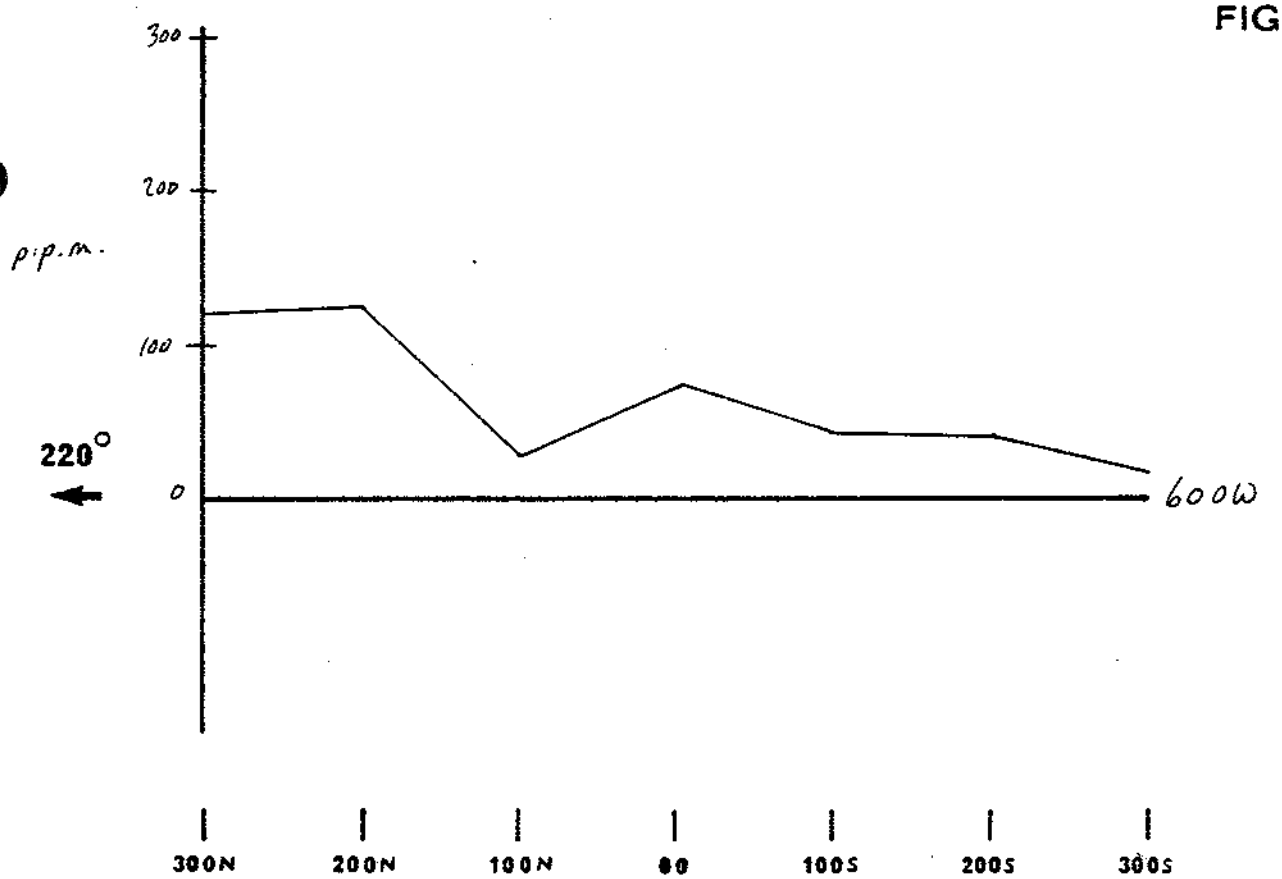
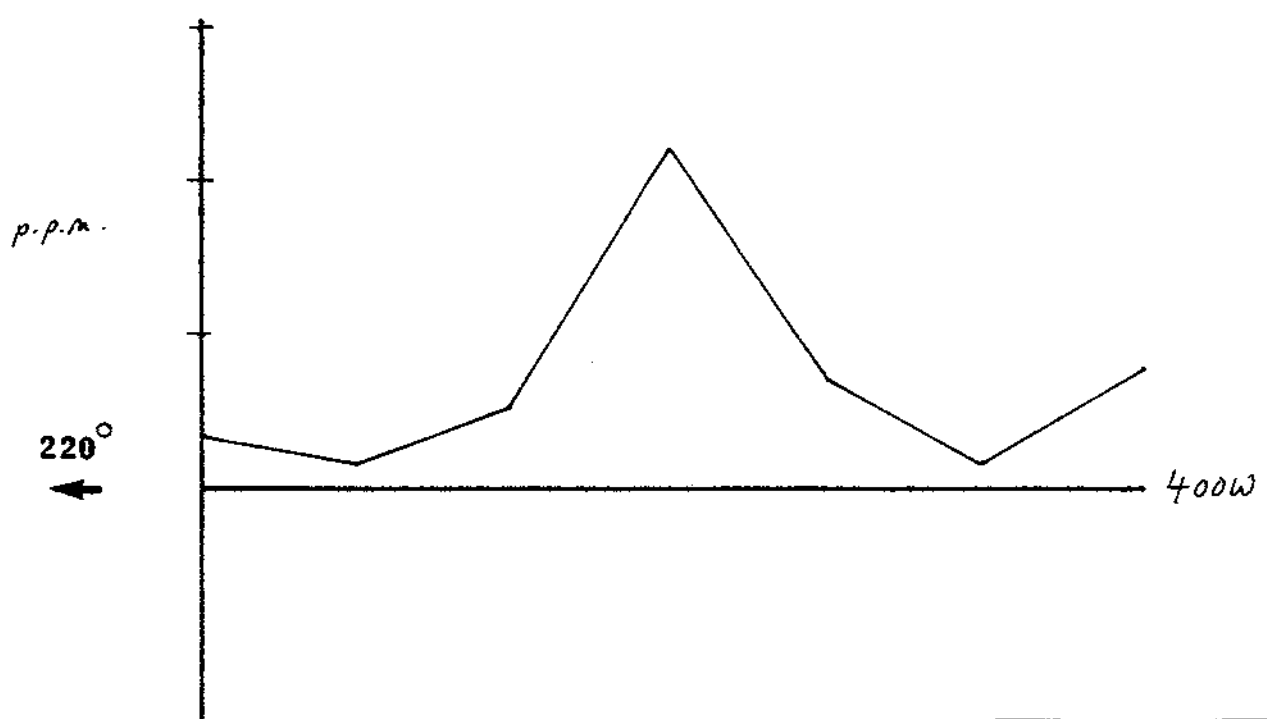
DEER LAKE GRID

Copper in Soil (ppm. - Profile)

FIGURE



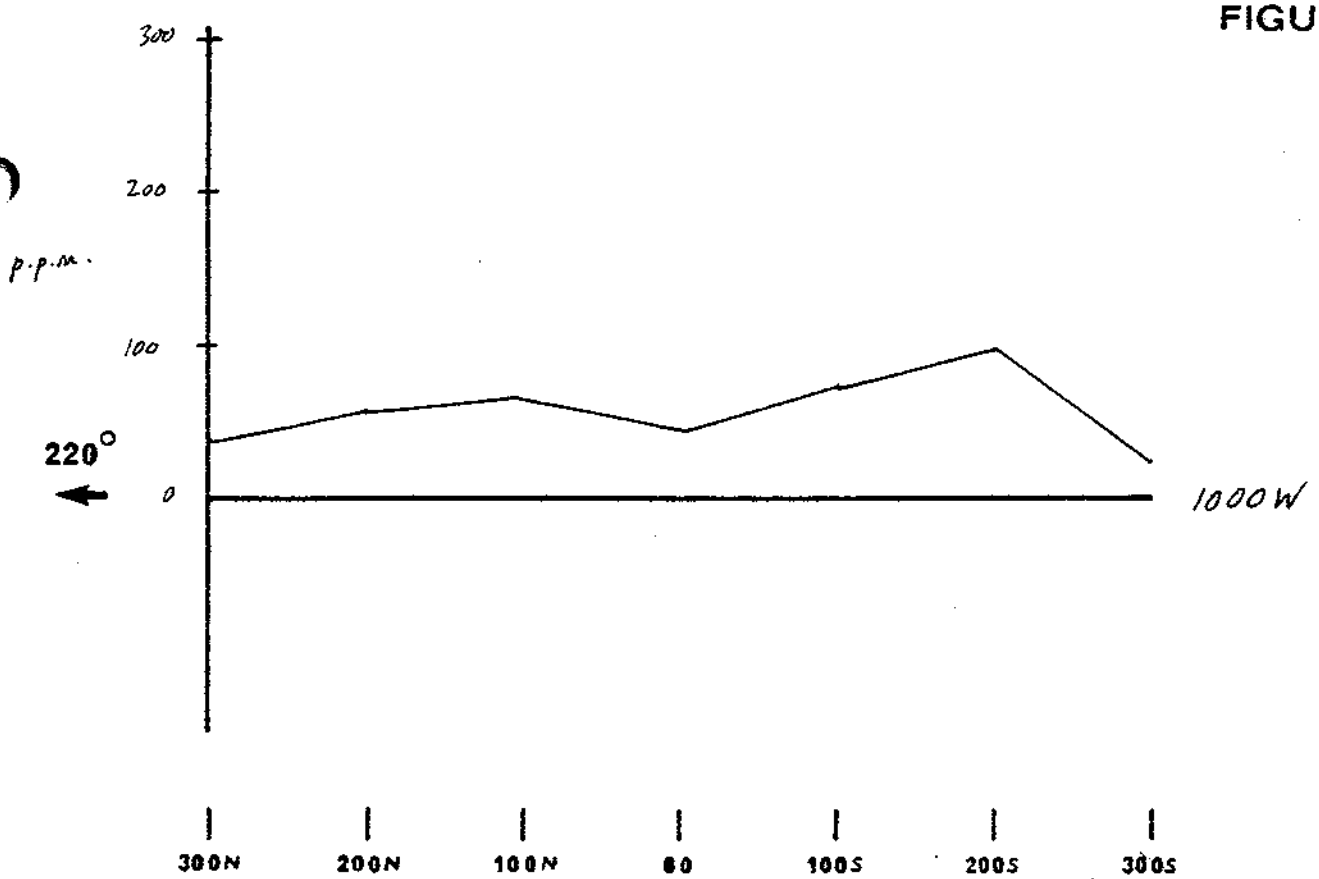


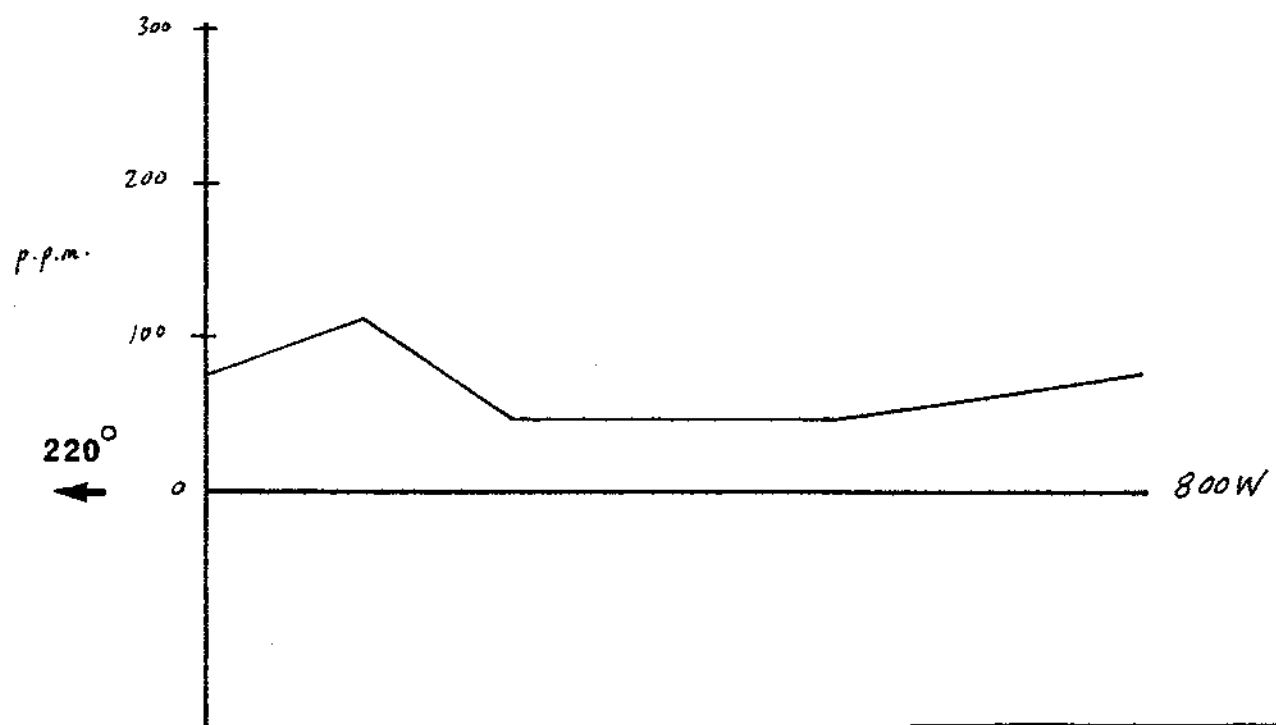
0 100 200 300
metres

DEER LAKE GRID
Copper in Soil (Profile)

J. H. Montgomery P. Eng.

FIGURE





DEER LAKE GRID

Copper in Soil (Profile)

J. H. Montgomery P. Eng.

5.43 Follow-up Work

Both anomalies were covered by detail grids and soil samples and magnetic readings were taken over the detail grids. In addition, electromagnetic readings were taken over the detail grids.

5.44 Results of Follow-up Work

No significant arsenic values were detected on the detail grid over Anomaly I(see Figure 32). A single high copper value of 295 P.P.M. was detected at grid location 400W,75S.(see Figure 33). A small(50 metre by 25 metre) low intensity magnetic anomaly centered at grid location 400W,25S was detected.(see Figure 34). No significant electromagnetic response was detected(see Figure 35).

No significant arsenic values were detected on the detail grid over Anomaly II.(see Figure 36). A significant copper anomaly,(5 samples over 200 P.P.M.) was detected on the detail grid over Anomaly II. This anomaly coincides with the western end of a high intensity(+19,190 γ) magnetic anomaly adjacent to a significant (up to -11 resultant) electromagnetic anomaly. (see Figures 37 to 39).

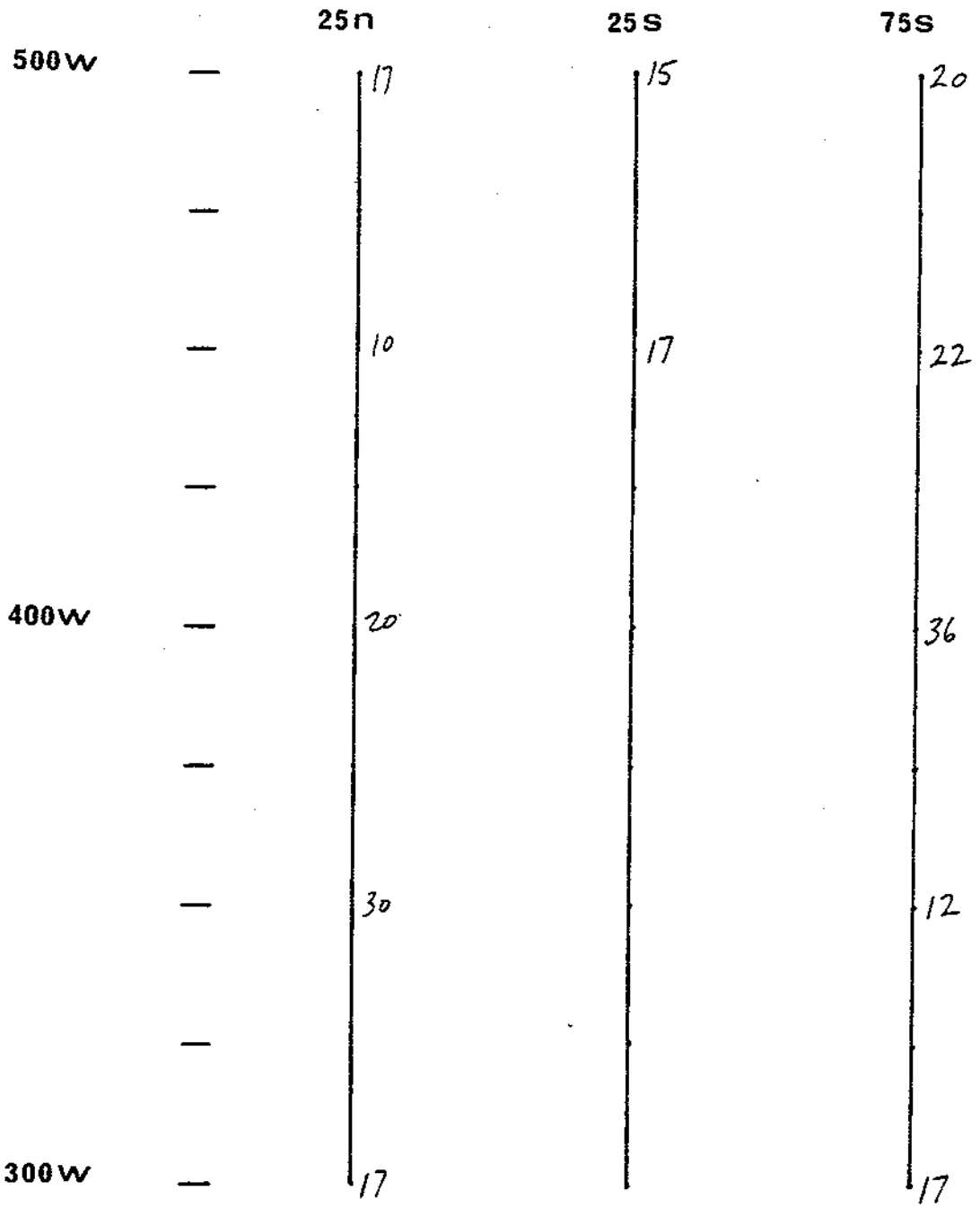
5.45 Percussion Drilling

Two percussion drill holes were drilled to test Anomaly II and the area between Anomaly I and Anomaly II.(see Figure 2 for percussion drill hole locations). Hole #1 was drilled vertically to a depth of 230 metres. The drill cuttings were analysed for

Figure

DEER LAKE
ANOMALY I

Arsenic in Soil
(p.p.m.)



0 25 50 75
metres

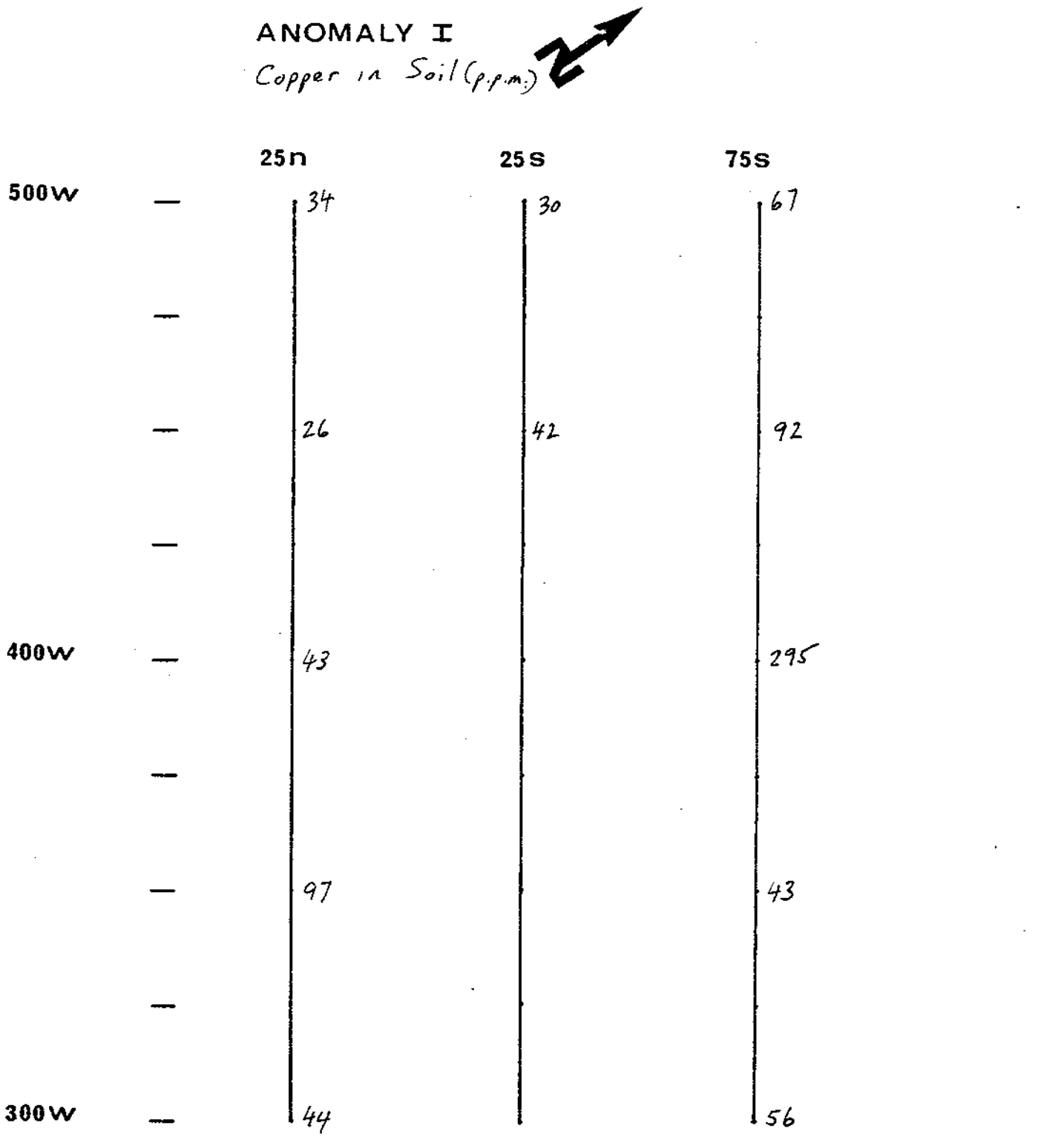
J.H. Montgomery P. Eng.

Figure

DEER LAKE

ANOMALY I

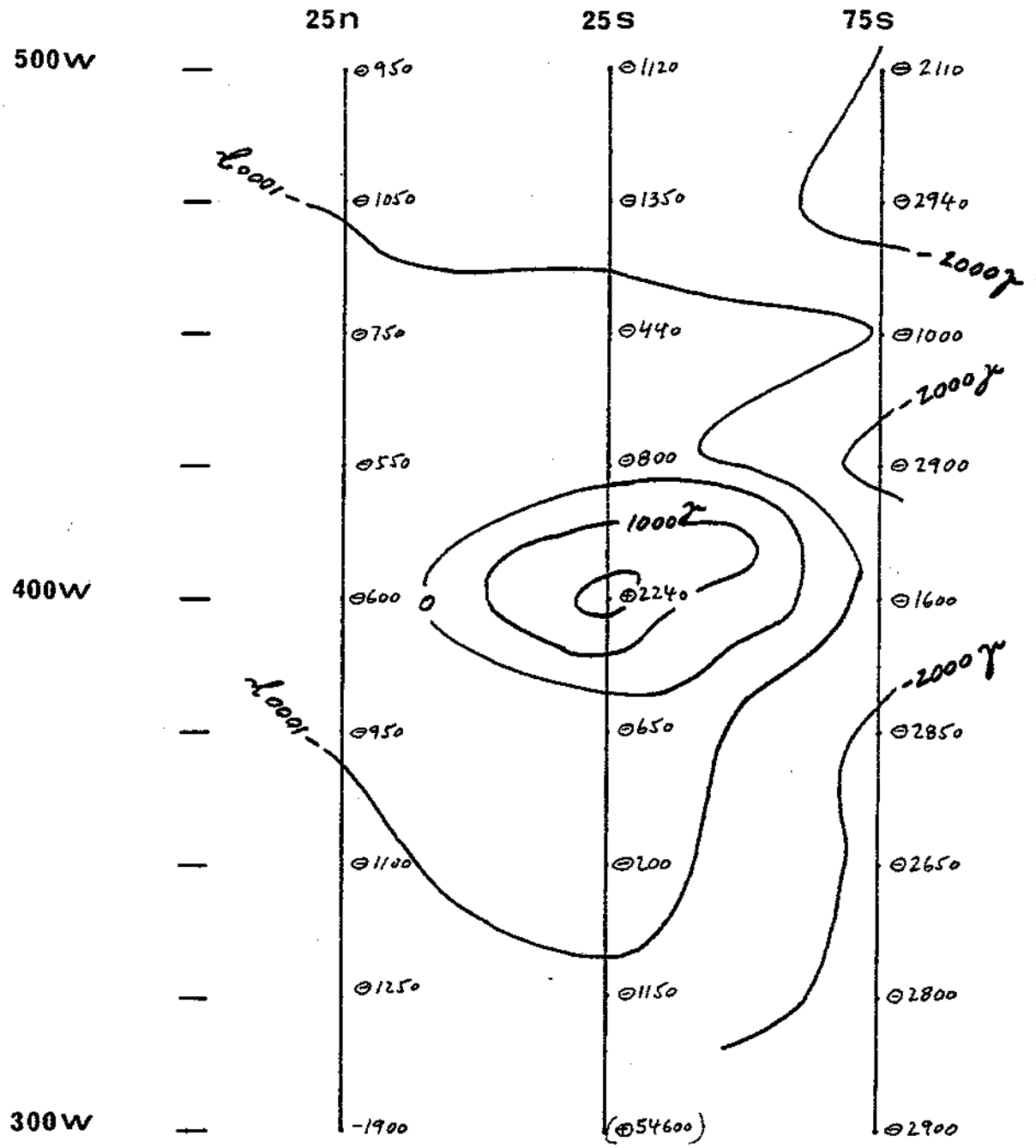
Copper in Soil (p.p.m.)



J.H. Montgomery P. Eng.

Figure

DEER LAKE
ANOMALY I
Magnetic Plan



0 25 50 75
metres

J.H. Montgomery P. Eng.

Figure

DEER LAKE
ANOMALY I

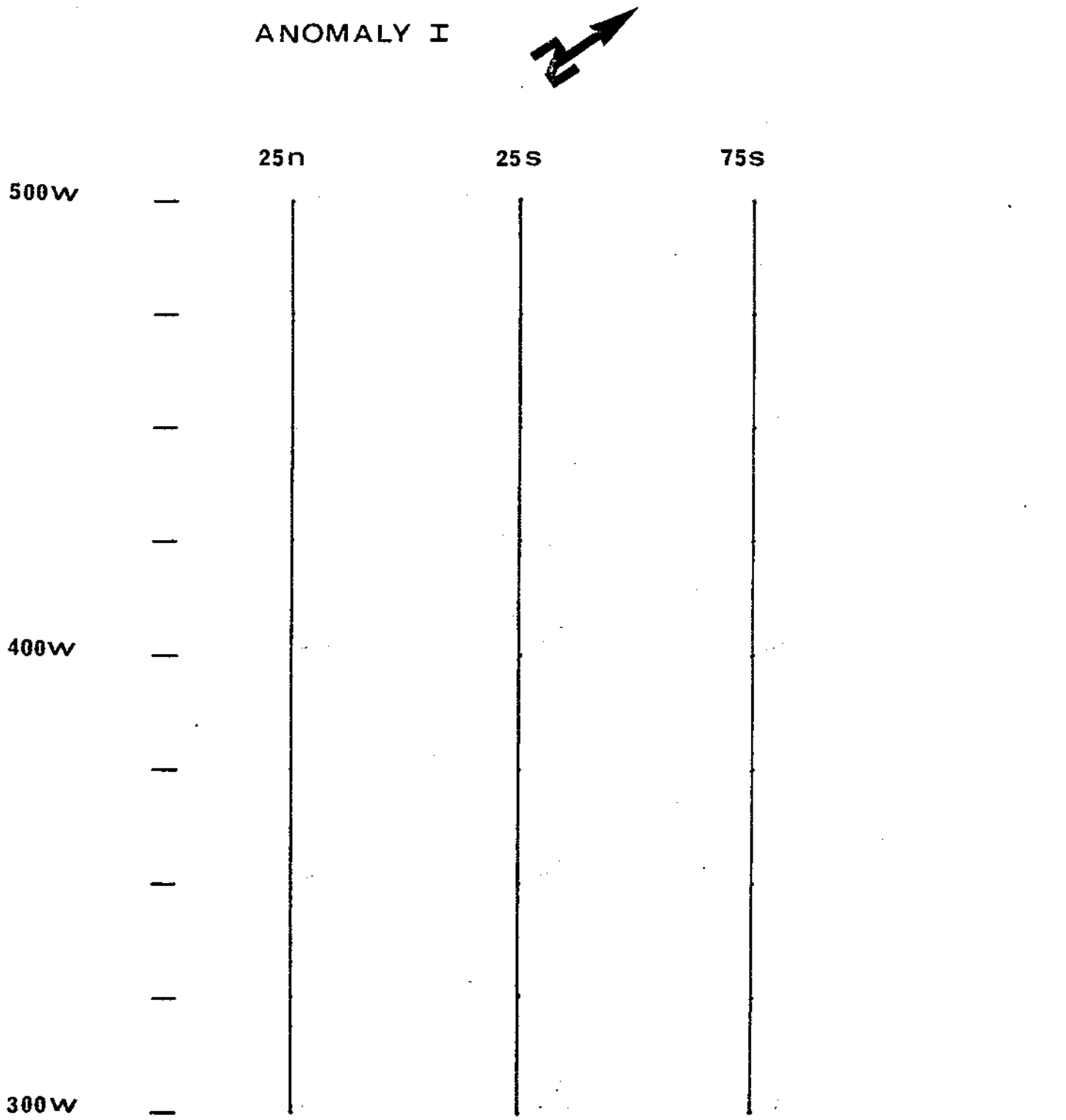


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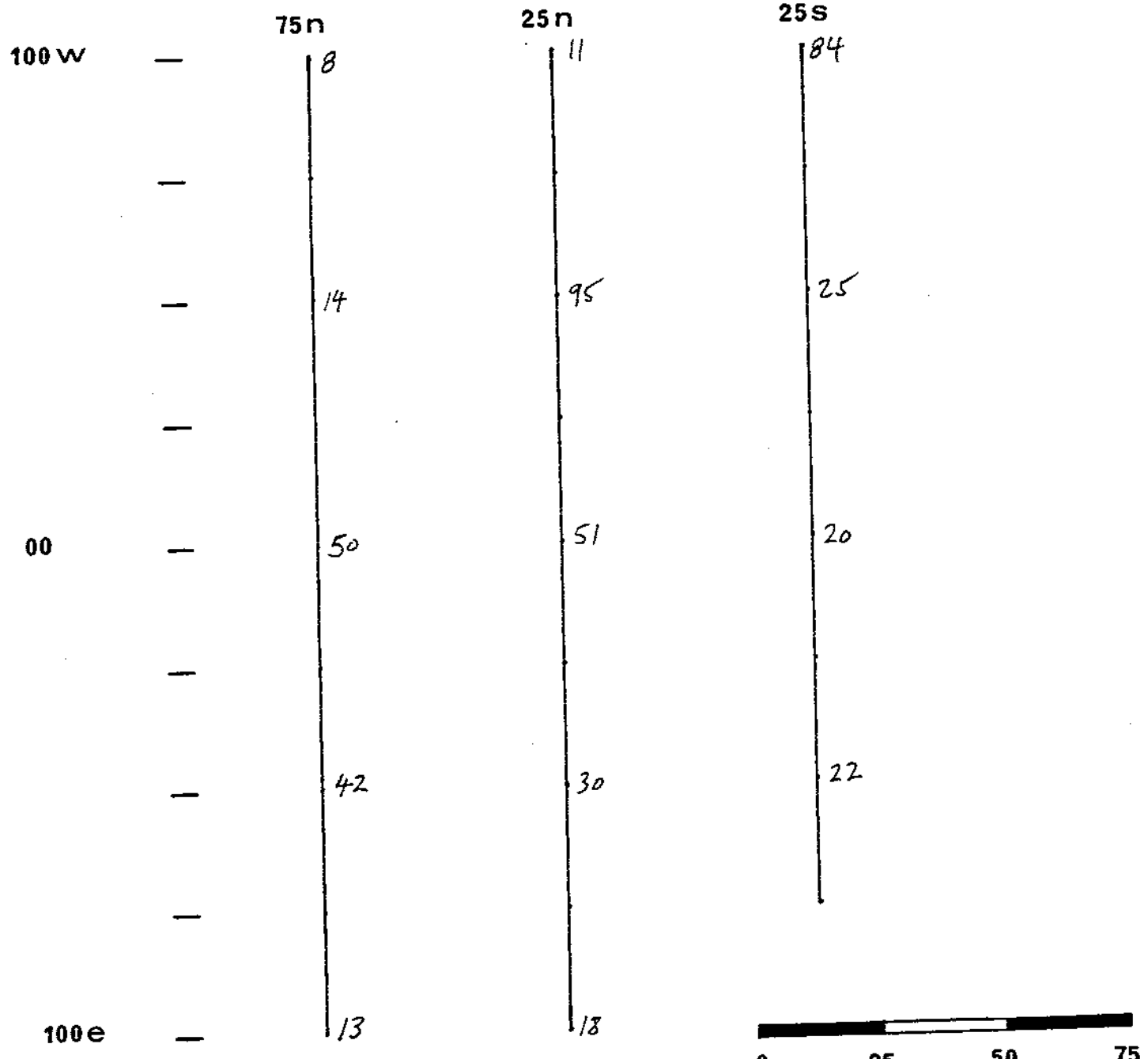
Figure

DEER LAKE

ANOMALY II

Arsenic in Soil
(p.p.m.)



J. H. Montgomery P. Eng.

Figure

DEER LAKE
ANOMALY II
Copper in Soil (p.p.m.)

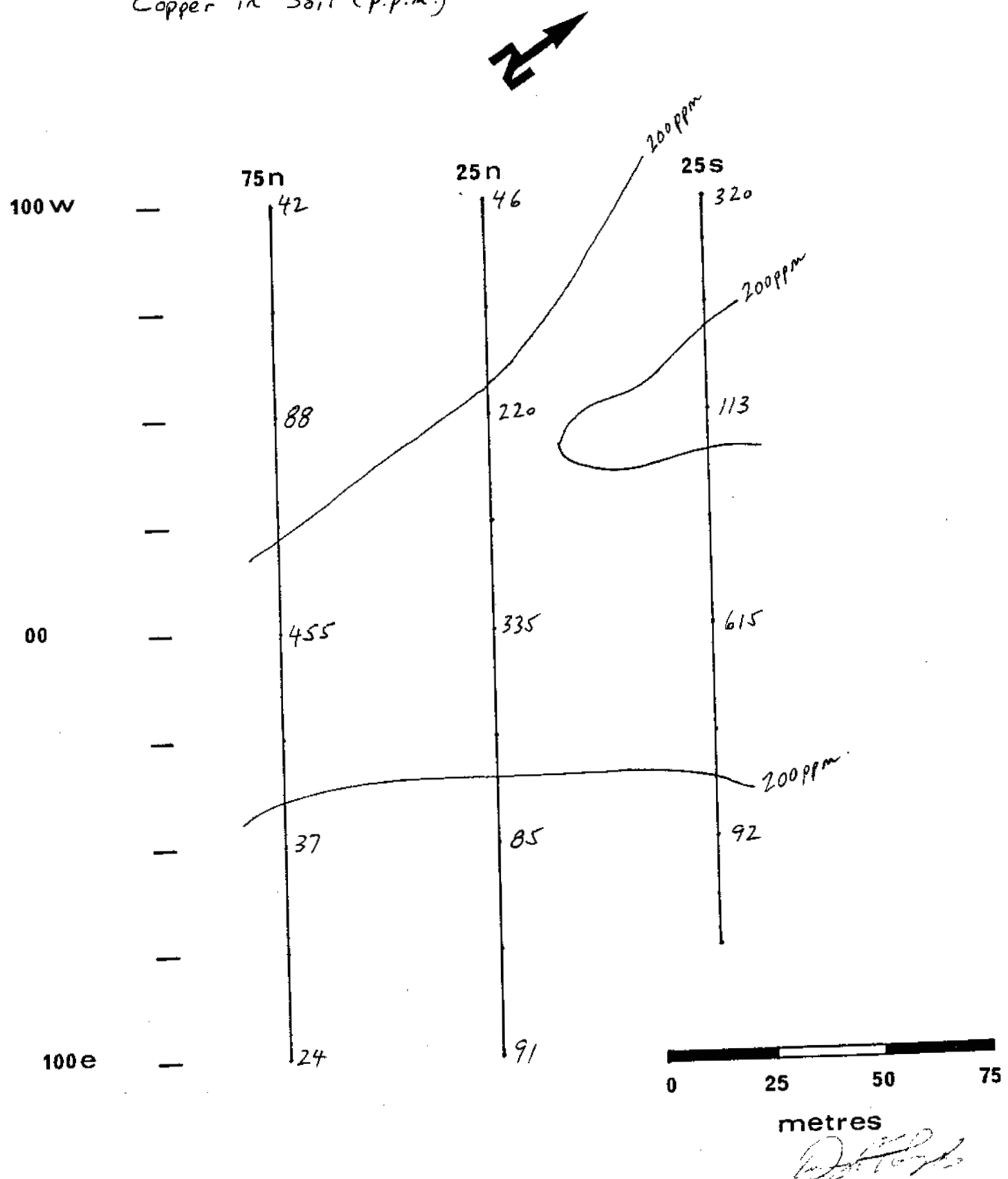


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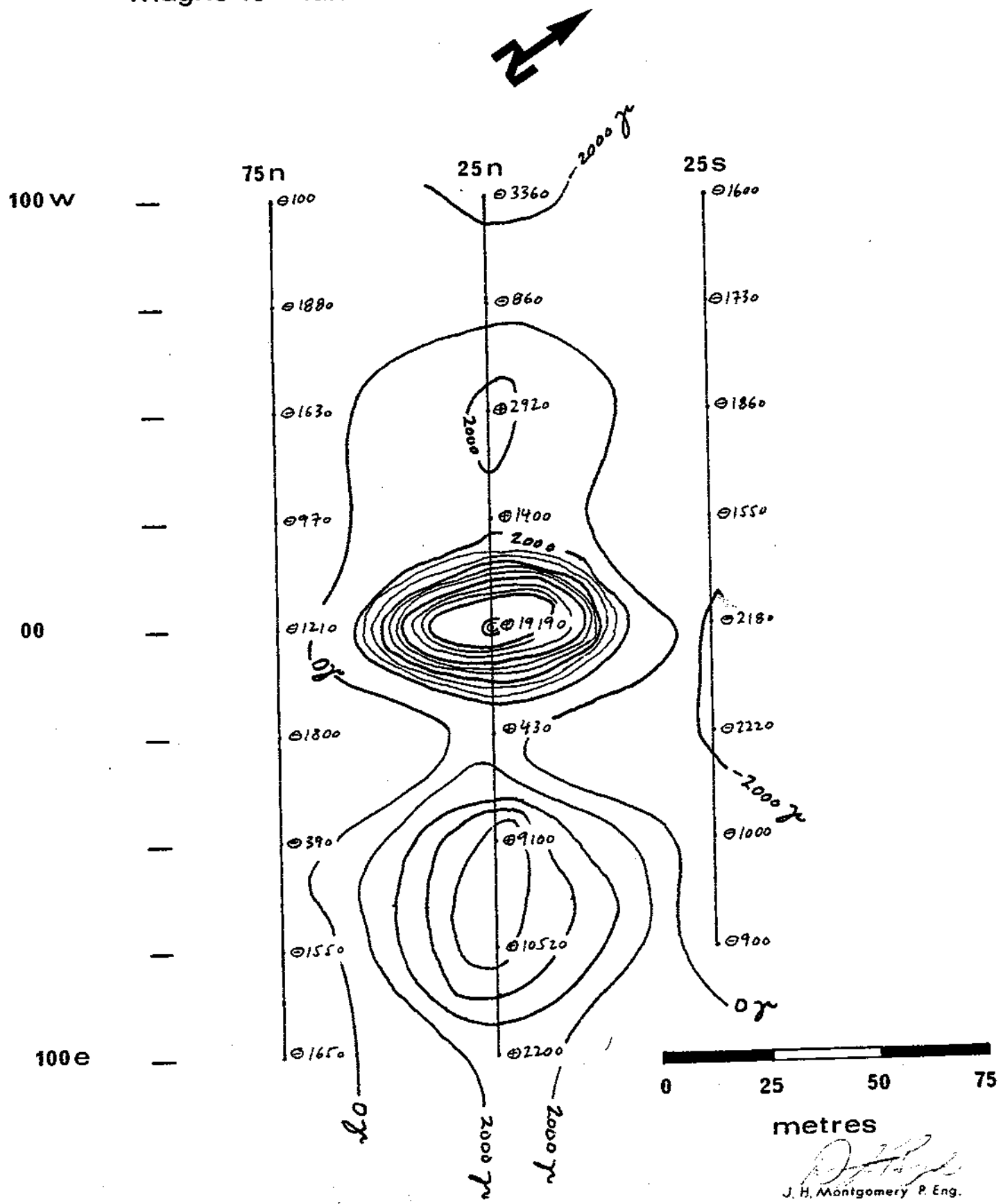
Figure

DEER LAKE

ANOMALY II

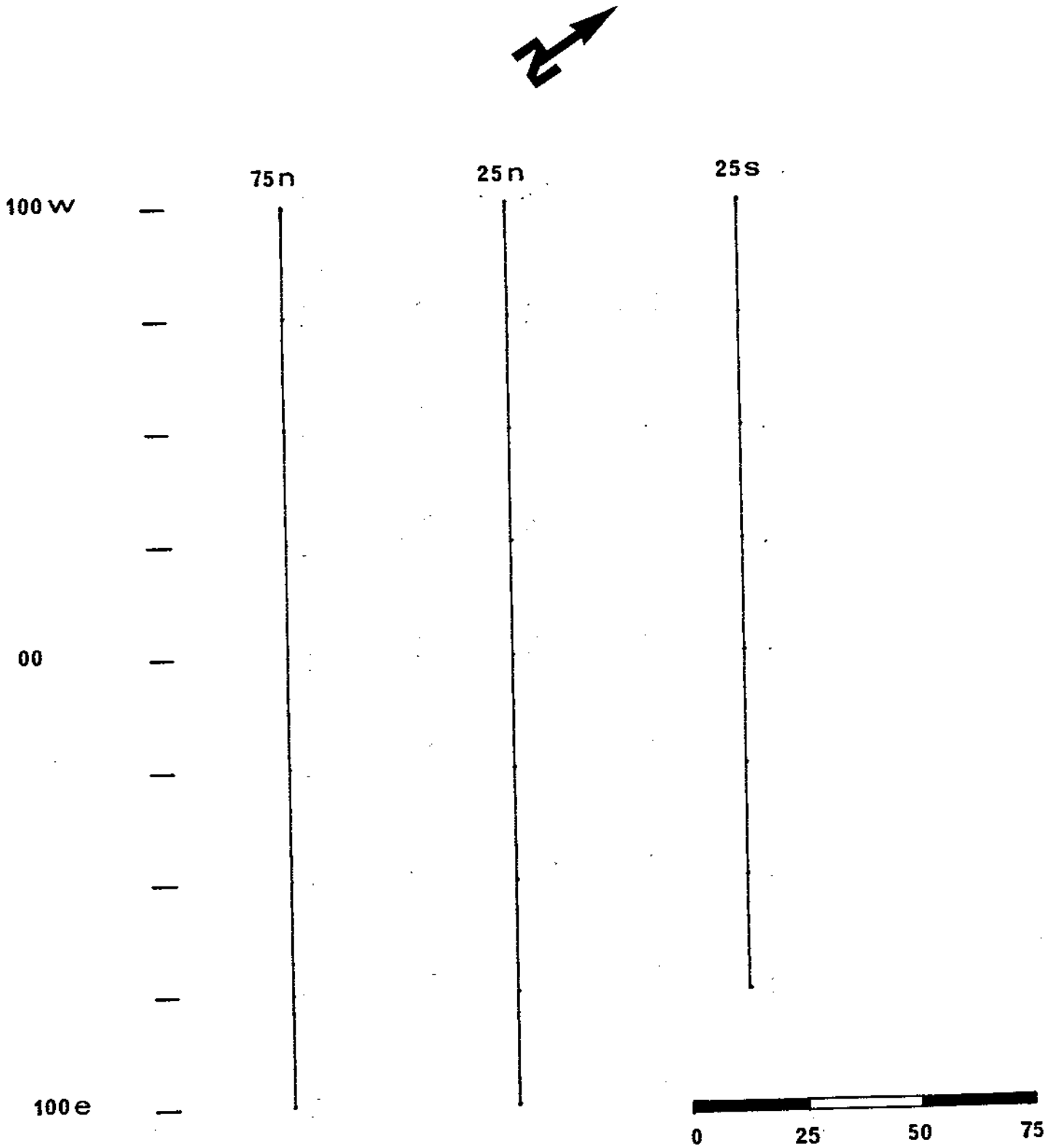
Magnetic Plan



J. H. Montgomery P. Eng.

Figure

DEER LAKE
ANOMALY II



J. H. Montgomery P. Eng.

copper(see Appendix D) in 10 metre lengths. Hole #2 was drilled vertically to a depth of 225 metres. A composite sample of the cuttings from Hole #2 was analysed for copper(see Appendix D). The drill cuttings were of pale green andesitic rock, with significant pyrite present.

5.46 Recommendations

No further work is recommended in this survey area, because of the sparse nature of the mineralization.(see Appendix D).

APPENDIX A

Ref. No. 6586

DEPARTMENT OF MINES
AND PETROLEUM RESOURCES

FORM B (*Section 51*) MINERAL ACT

SUB-MINING RECORDER
RECEIVED
SEP 6 1977
M.R.# $
VANCOUVER, B. C.

Affidavit on Application to Record Work

1. I, Gary H. Giroux (Name)
2280 Dollarton Hyw. (Address)
North Vancouver, B.C.
Free Miner's Certificate No. 158305
Date issued June 15, 1977

Agent for John S. Burns (Name)
P.O. Box 136 (Address)
Lions Bay, B.C.
Free Miner's Certificate No. 153742
Date issued Feb. 3, 1977

MAKE OATH AND SAY:

2. I have done, or caused to be done, work on the Fort 1-6, Fort 7(4), Fort 8(1), Fort 9 Add. 4, Add 6, and Add 15-27 Mineral Claim(s)
Record No.(s) 102082-102087, 178, 221, 428, 128356, 128358, 128367-128379
Situate at Deer (lakeview) Lake in the Kamloops Mining Division,
to the value of at least $5673.00 dollars. Work was done from the second day
of July 1977, to the 29 day of July 1977

3. The following is a detailed statement of such work done in the 12 months in which such work is required to be done.

(COMPLETE APPROPRIATE SECTION(S) A, B, C, D, BELOW)

A. PHYSICAL (Trenches, open cuts, adits, pits, shafts, reclamation, and construction of roads and trails)

(Give details as required by regulations)	COST
TOTAL	

I wish to apply $ of this work to the claims listed below.
(State number of years to be applied to each claim and its month of record)

(For B, C, and D sections please turn over)

B. DRILLING

(Details as per report submitted)

COST

I wish to apply $ _____ of this work to the claims listed below.
(State number of years to be applied to each claim and its month of record)

C. PROSPECTING

(Details as per report submitted)

COST

I wish to apply $ _____ of this work to the claims listed below.
(State number of years to be applied to each claim and its month of record)

D. GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL (Includes line cutting)
(State type of work)

	COST
Linecutting	$2745.00
Geochemical Soilsampling	$1830.00
Magnetometer Survey	$1098.00
(Report to Follow in 3 Weeks)	
TOTAL	$5673.00

I wish to apply $ 5600.00 of this work to the claims listed below.
(State number of years to be applied to each claim and its month of record)

1 yr. to:		2 Yrs to:	
Fort 1,2,7	Dec	Fort 3,4,5,6,7	Dec
Fort 9	Jan	Fort 8	Feb
Add 4,6,15-27	Aug		

Plus credit of 30c to Fort 9

NOTE—Dollar value of work done under A, B, C, or D sections, totalling $200, may be applied as one year's work.

Who paid for the above-described work? Name Meridian Resources Limited

Address 706-675 West Hastings St.
Vancouver , B.C. V6B 1N2

If you intend to claim a refund of cash in lieu under the provisions of the *Mineral Act*, you must make application on this affidavit under A, B, C, or D sections as applicable.

4. That I have not and will not use the work declared herein in any way for the purposes of obtaining tax exemption on a Crown-granted mineral claim under the terms of the *Mineral Land Tax Act*.

SWORN and subscribed to at _____
this _____ day of _____
19____, before me—
* _____

G H Gruenwald

15

* This affidavit may be taken by a person empowered to take affidavits by the *Evidence Act* of British Columbia.

DEPARTMENT OF MINES AND PETROLEUM RESOURCES

MINERAL ACT

FORM I

NOTICE TO GROUP

SUB-MINING RECORDER
RECEIVED
SEP 6 1977
M.R. # $
VANCOUVER, B. C.

Mining Division KAMLOOPS Location Deer (Laleview) Lake

Name of group NORA GROUP Map No. 92P

We, the undersigned owners* of the following adjoining mineral claims, desire to group them according to the provisions of the *Mineral Act*:—

NAME OF CLAIM	No. of Units	Record No. or Lot No.	Month of Record	SIGNATURE OF OWNER*	Free Miner's Certicate No.
Fort 1	1	102082	Dec		
Fort 2	1	102083	Dec		
Fort 3	1	102084	Dec		
Fort 4	1	102085	Dec		
Fort 5	1	102086	Dec		
Fort 6	1	102087	Dec		
Fort 7	4	178	Dec		
Fort 8	1	221	Feb		
Fort 9	4	428	Jun		
Add 4	1	128356	Aug		
Add 6	1	128358	Aug	John S Burns	
Add 15	1	128367	Aug	153742	
Add 16	1	128368	Aug		
Add 17	1	128369	Aug	Agent	
Add 18	1	128370	Aug		
Add 19	1	128371	Aug	GARY H GURUCK	
Add 20	1	128372	Aug	155365	
Add 21	1	128373	Aug		
Add 22	1	128374	Aug		
Add 23	1	128375	Aug		
Add 24	1	128376	Aug		
Add 25	1	128377	Aug		
Add 26	1	128378	Aug		
Add 27	1	128379	Aug		

* May be signed by agent on behalf of owner.

APPENDIX B.I

GEOCHEMICAL SAMPLING PROCEDURE

Geochemical soil samples were taken from the "rusty" B-horizon wherever possible. This horizon was normally encountered at depths of 10 to 15 centimetres. Where the B-horizon was absent, C-horizon samples were taken at slightly greater depths.

Samples were placed in kraft bags and partially air-dried. They were then shipped to Min-En Laboratories in North Vancouver for analysis.

APPENDIX B.II

GEOCHEMICAL ANALYSIS BY MIN-EN LABORATORIES LTD.

Samples are processed by Min-En Laboratories Ltd. at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by jaw crusher and pulverized by ceramic plated pulverizer.

1.0 gram of the samples are digested for 6 hours with HNO_3 and $HClO_4$ mixture.

After cooling samples are diluted to standard volume. The solutions are analysed by Atomic Absorption Spectrophotometers.

Copper, lead, zinc, silver, cadmium, cobalt, nickel and manganese are analysed using the CH_2H_2-Air flame combination but the molybdenum determination is carried out by C_2H_2-N_2O gas mixture directly or indirectly (depending on the sensitivity and detection limit required) on these sample solutions.

For Arsenic analysis a suitable aliquote is taken from the above 1 gram sample solution and the test is carried out by Gutzit method using Ag CS_2 N $(C_2H_5)_2$ as a reagent. The detection limit obtained is 1. ppm.

Fluorine analysis is carried out on a 200 miligram sample. After fusion and suitable dilutions the fluoride ion concentration in rocks or soils samples are measured quantitatively by using fluorine specific ion electrode. Detection limit of this test is 10 ppm F.

GEOCHEMICAL ANALYSIS BY MIN-EN LABORATORIES LTD.

Samples are processed by Min-En Laboratories Ltd. at 705 W 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by jaw crusher and pulverized by ceramic plated pulverizer.

1.0 gram of the samples are digested for 6 hours with HNO_3 and $HClO_4$ mixture

After cooling samples are diluted to standard volume The solutions are analysed by Atomic Absorption Spectrophotometers

Copper, lead, zinc, silver, cadmium, cobalt, nickel and manganese are analysed using the C_2H_2-Air flame combination but the molybdenum determination is carried out by C_2H_2-N_2O gas mixture directly or indirectly (depending on the sensitivity and detection limit required) on these sample solutions.

PHONE 980-5814

MIN-EN Laboratories Ltd.
Specialists in Mineral Environments
Corner 15th Street and Bewicke
705 WEST 15th STREET
NORTH VANCOUVER, B.C.
CANADA

GOLD GEOCHEMICAL ANALYSIS BY MIN-EN LABORATORIES LTD.

Geochemical samples for Gold processed by Min-En Laboratories Ltd., at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed and pulverized by ceramic plated pulverizer.

A suitable sample weight 5.0 or 10.0 grams are pre-treated with HNO_3 and $HClO_4$ mixture.

After pretreatments the samples are digested with Aqua Regia solution, and after digestion the samples are taken up with 25% HCl to suitable volume.

At this stage of the procedure copper, silver and zinc can be analysed from suitable aliquote by Atomic Absorption Spectrophotometric procedure.

Further oxidation and treatment of at least 75% of the original sample solutions are made suitable for extraction of gold with Methyl Iso-Butyl Ketone.

With a set of suitable standard solution gold is analysed by Atomic Absorption instruments. The obtained detection limit is 0.01 ppm (10 ppb).

APPENDIX C

GEOPHYSICAL INSTRUMENTATION

1) Base Station Magnetometer:

   - Scintrex MF-2 Fluxgate Magnetometer

2)Field Magnetometer:

  - Scintrex MF-1 Fluxgate magnetometer

3) Electromagnetic Unit:

   - Crone J.E.M. Dual-Frequency Shootback E.M.

APPENDIX D

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: 985-0648
AREA CODE: 604
TELEX: 043-52597

CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 42081

TO: Meridian Resources Ltd.
706 - 675 W. Hastings St.
Vancouver, B.C.

INVOICE NO. 22034

RECEIVED Sept. 24/77

ANALYSED Sept. 28/77

ATTN Dick Hughes

SAMPLE NO. :	PPM Copper
10-20	22
20-30	15
30-40	10
40-50	40
50-60	10
60-70	62
70-80	340
80-90	82
90-100	146
100-110	830
110-120	80
120-130	148
[illegible]-140	128
[illegible]-150	650
150-160	1280
160-170	405
170-180	345
180-190	1720
190-200	265
200-210	1560
210-220	210
220-230	245
Hole #2 Compo.	210

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: .....

APPENDIX E

COST BREAKDOWN

1)Fees and Salaries:

a)Fees

- J.H.Montgomery - June 14,23,24,27,28-30
  July 1-8,10-13,24(½)
  17 1/4 days @ $150.00 ----------$2587.50

- D.F.Symonds - June 23,24,27-30
  July 2-12,14,15,18-29
  August 2-5,8,9
  September 6-9,19(½),10-17
  49 1/2 days @ $110.00 ----------$5445.00

- G.H.Giroux - June 28(½)
  July 1-8,13-15,16,18,27-29
  August 8(½)
  17 days @ $110.00 ----------$1870.00

TOTAL FEES ----------$9902.50

b)Salaries

- S.Barker - June 28-30
  July 1-31
  September 9-17
  Total $1529.61 ----------$1529.61

- S.Berryman - September 9-14
  Total $270.00 ----------$ 270.00

- D.Berryman - September 9-14
  Total $390.00 ----------$ 390.00

Employee Benefits, Compensation etc. $ 659.12

TOTAL SALARIES, BENEFITS ----------$2848.73

2)Transportation:

a) Truck Rental, Gas, Oil	$1652.33
b) Airfares	$ 363.88
c) Taxi	$ 11.00
TOTAL TRANSPORTATION	$2027.21

3)Accomodation and Camp Costs

a) Motels	$ 269.96
b) Meals	$ 409.35
c) Groceries	$ 748.92
d) Equipment Rental	$ 140.00
e) Supplies	$ 502.90
TOTAL CAMP COSTS	$2071.13

4)Geochemical Analysis

406 samples	$2040.85

5)Equipment Rental

a) Magnetometers	$ 575.00
b) E.M.	$ 526.29
	$1111.29

6)Drilling	$2200.00

COST SUMMARY

Fees	$9902.50
Salaries	$2848.73
Transport.	$2027.21
Camp	$2071.13
Analysis	$2040.85
Equip.	$1111.29
Drilling	$2200.00
TOTAL ---	$22,202.21

COST APPLICATION

GRID	LINECUTTING	GEOCHEM.	MAG.	E.M.	DRILLING
M^{C}Leod	1900m	43 samp.	-	-	-
NoFish	2400m	56 samp.	2400m	2400m	-
Nora	20000m	233 samp.	20000m	-	-
Deer	4800m	74 samp.	4800m	1200m	455 m

TOTAL 406

McLeod Grid - $1000.00

NoFish Grid - $1600.00

Nora Grid - $14,000.00

Deer Grid - $5000.00

$21,600.00 to apply to assessment work ✓

APPENDIX F

STATEMENT OF QUALIFICATIONS

I, Douglas F. Symonds of 87-3060 East 54th Avenue, Vancouver, B.C. do state that:

1) I am a graduate geologist(B.Sc. - University of B.C. - 1972)
2) I have been involved in all aspects of mineral exploration, including geophysical and geochemical prospecting since 1965.
3) I am a full partner in Montgomery Consultants Limited.

Deer Lake (West) Grid

GOLD NO.1

COPPER NO.1

SILVER NO.1

McLeod Lake Grid

No Fish Lake Grid

Nora Grid

Perpendicular Hole #2

Perpendicular Hole #1

MCLEOD LAKE

CAROL LAKE

NOFISH LAKE

PORPHYRY LAKE

HEATHER LAKE

HEIDI LAKE

BONNIE LAKE

TEEL LAKE

PAULINE LAKE

IRON LAKE

NORA LK.

LAUREL LAKE

RIO'S DEER LAKE

GOOSE LAKE

LYNN LAKE

LATREWOUILLE LAKE

FORT 1

FORT 2 ADD 19 FR

FORT 3

FORT 4

FORT 5

FORT 6

FORT 7

FORT 8

ADD 4

ADD 6

ADD 15

ADD 16

ADD 17

ADD 18

ADD 20

ADD 21

ADD 22

ADD 23

ADD 24

ADD 25

ADD 27

BOB

CAROL

TED

LV 28

LV 29

LV 30

LV 31

LV 32

LV 33

LV 34

LV 35

LV 36

LV 37

LV 38

LV 39

LV 40

LV 43

LV 44

LV 45

LV 46

LV 47

LV 48

LV 49

LV 50

LV 51

LV 52

LV 53

LV 54

LV 55

LV 56

LV 57

LV 58

LV 59

LV 60

LV 61

LV 62

LV 63

LV 64

LV 65

LV 66

LV 67

LV 68

LV 70 FR

LV 71 FR

LV 72 FR

metres

500 1000

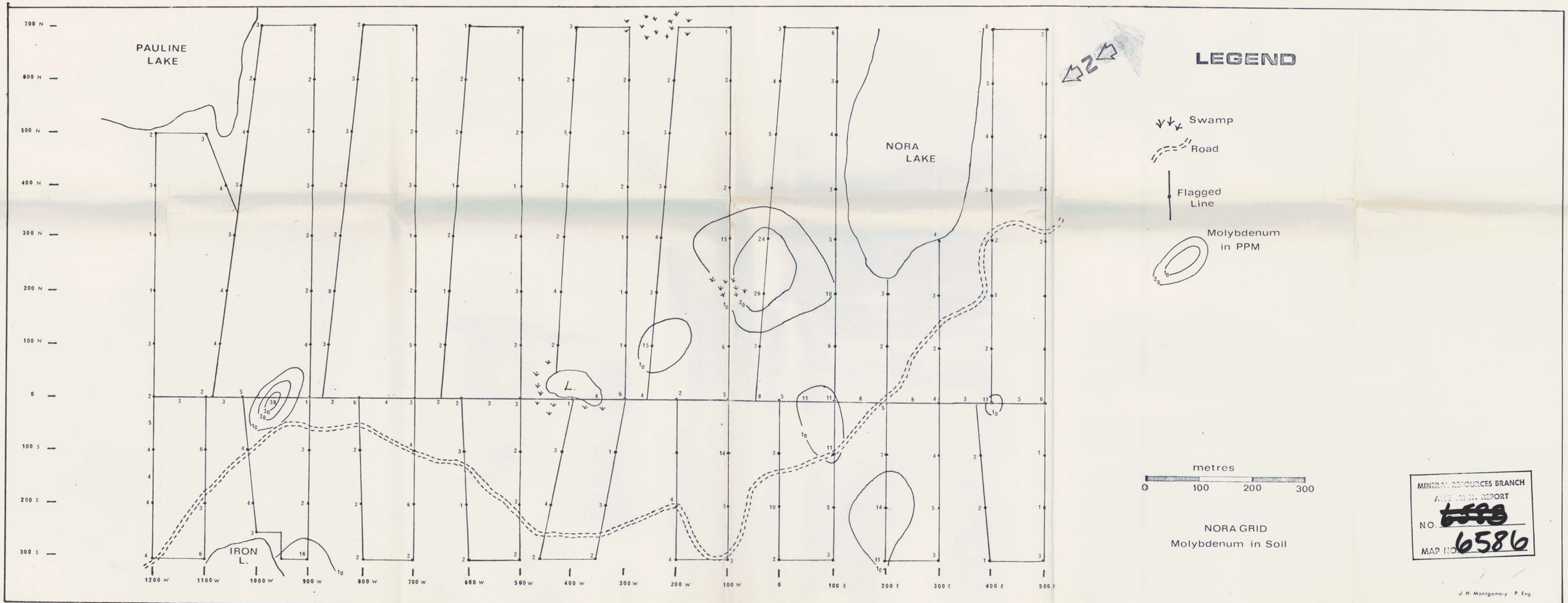
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. ~~6589~~
MAP NO. 6586

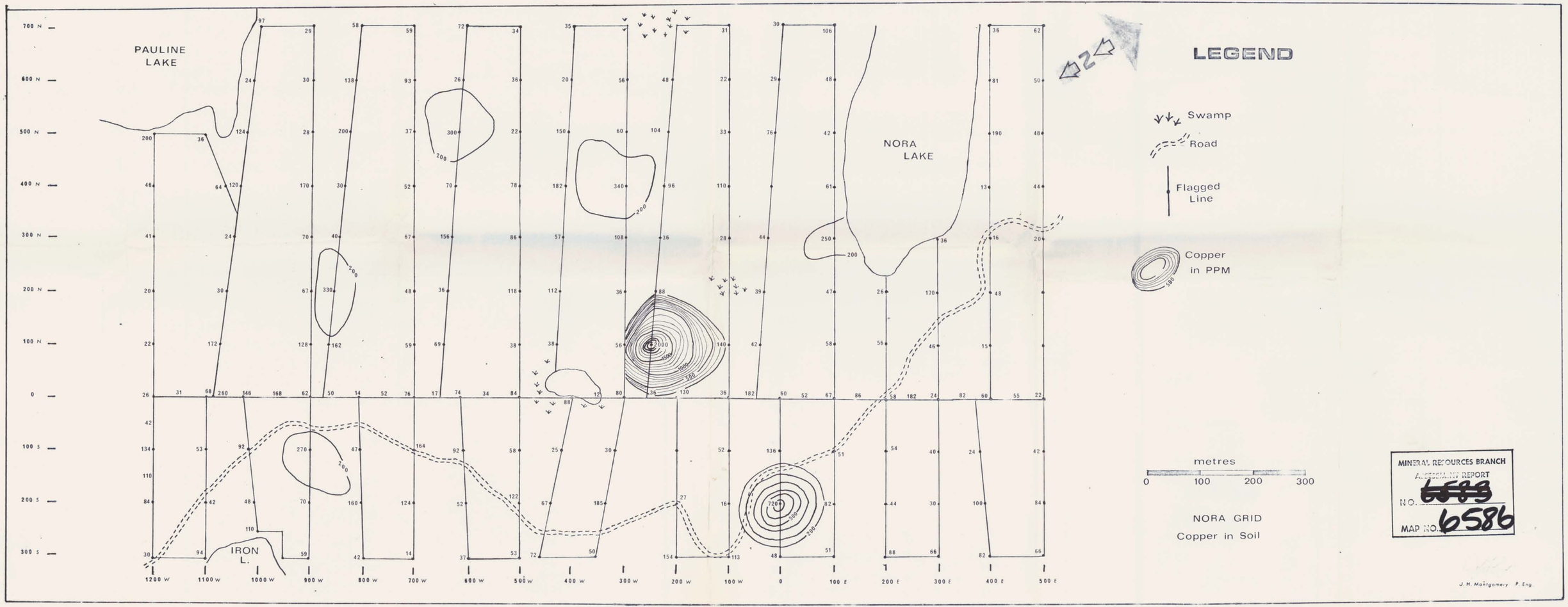
FIGURE 2

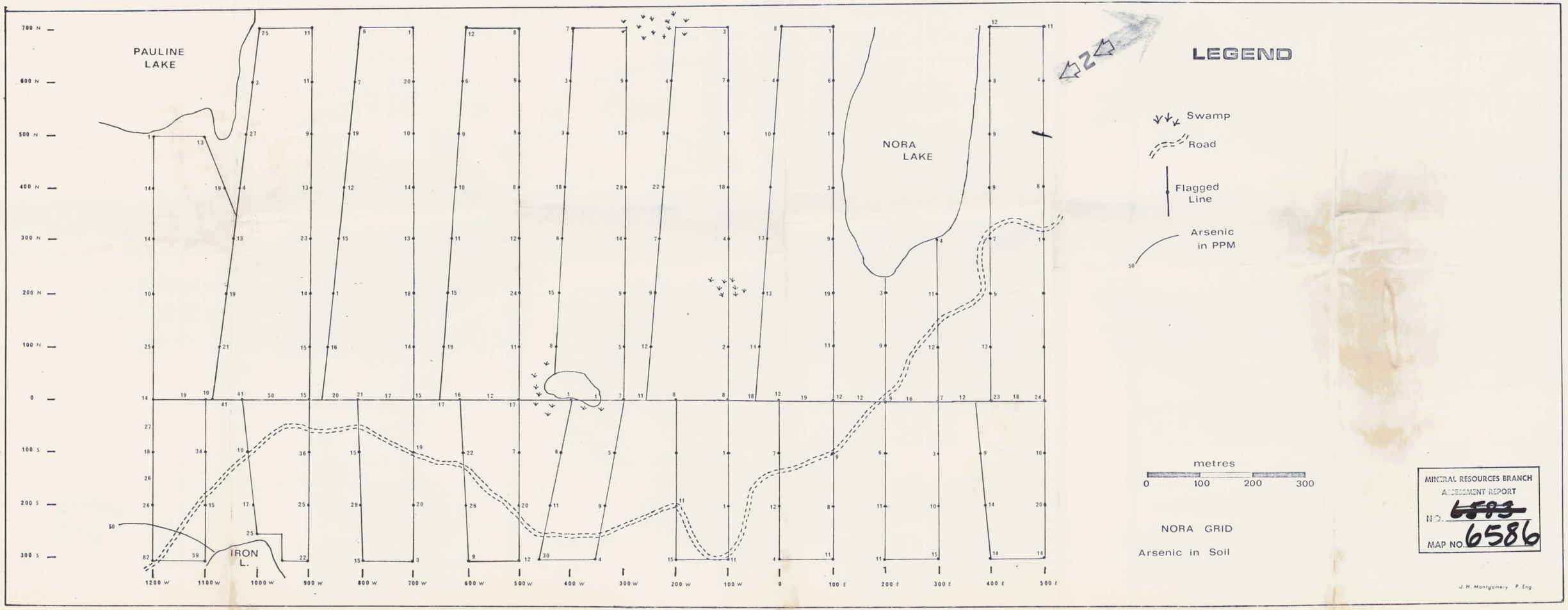
CLAIM MAP

MERIDIAN RESOURCES LIMITED
DEER LAKE PROJECT
MONTGOMERY CONSULTANTS LIMITED

~~6589~~
6586


PAULINE LAKE
NORA LAKE
IRON L.
L.
700 N
600 N
500 N
400 N
300 N
200 N
100 N
0
100 S
200 S
300 S
1200 W
1100 W
1000 W
900 W
800 W
700 W
600 W
500 W
400 W
300 W
200 W
100 W
0
100 E
200 E
300 E
400 E
500 E
LEGEND
Swamp
Road
Flagged Line
Molybdenum in PPM
metres
0 100 200 300
NORA GRID
Molybdenum in Soil
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 6586
MAP NO. 6586
J. H. Montgomery P. Eng.


PAULINE LAKE
NORA LAKE
IRON L.
700 N
600 N
500 N
400 N
300 N
200 N
100 N
0
100 S
200 S
300 S
1200 W
1100 W
1000 W
900 W
800 W
700 W
600 W
500 W
400 W
300 W
200 W
100 W
0
100 E
200 E
300 E
400 E
500 E
LEGEND
Swamp
Road
Flagged Line
Copper in PPM
metres
0
100
200
300
NORA GRID
Copper in Soil
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 6588
MAP NO. 6586
J. H. Montgomery P. Eng.


PAULINE LAKE
NORA LAKE
IRON L.
700 N
600 N
500 N
400 N
300 N
200 N
100 N
0
100 S
200 S
300 S
1200 W
1100 W
1000 W
900 W
800 W
700 W
600 W
500 W
400 W
300 W
200 W
100 W
0
100 E
200 E
300 E
400 E
500 E
LEGEND
Swamp
Road
Flagged Line
Arsenic in PPM
50
metres
0
100
200
300
NORA GRID
Arsenic in Soil
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 6583
MAP NO. 6586
J. H. Montgomery, P. Eng.


PAULINE LAKE
NORA LAKE
IRON L.
700 N
600 N
500 N
400 N
300 N
200 N
100 N
0
100 S
200 S
300 S
1200 W
1100 W
1000 W
900 W
800 W
700 W
600 W
500 W
400 W
300 W
200 W
100 W
0
100 E
200 E
300 E
400 E
500 E
LEGEND
Swamp
Road
Flagged Line
2500
5000
Vertical Magnetic Component in Relative Gammas
metres
0
100
200
300
NORA GRID
Magnetic Survey
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 6583
MAP NO. 6586
J. H. Montgomery P. Eng.