

GEO

EXPLORATION — SERVICES



42A11SE0200 63.4484 CODY

010

MAGNETIC SURVEY
PROPERTY OF
FALCONBRIDGE LIMITED
PN-608 PROJECT - HOYLE PROPERTY
WHITNEY AND CODY TOWNSHIPS
PROVINCE DE ONTARIO
SEPTEMBER 1984 CLERMONT LAVOIE, Ph.D.

INTRODUCTION

A total field and vertical gradient magnetic survey was carried out over a property owned by Falconbridge Limited in Whitney and Cody townships, province of Ontario.

The purpose of this total field and vertical gradient magnetic survey was to have an idea of the geological structure.

PROPERTY, LOCATION AND ACCESS

The property is located 10 miles North-East of the town of Timmins, immediately East of the village of Pamour, in Whitney and Cody townships, province of Ontario.

Access to the property is easy since it is adjacent to Highway #101 immediately North-East of the village of Pamour.

GEOPHYSICAL WORK

During the period of July 30 to August 20, 1984, 63.34 miles of total field and vertical gradient magnetic survey was carried out using a proton magnetometer IGS-2 from Scintrex having a sensitivity of 0.1 gammas. The usual diurnal and datum corrections were made in part by establishing the base station along the base line and in part with an automatic base station recorder (MP-3) also having a sensitivity of 0.1 gammas.

DISCUSSION ON THE METHOD

Concentrations of minerals having magnetic susceptibility will give rise to variations in the earth's total magnetic field. Systematic observation of the earth's total magnetic field has allowed us to profile the data outlining magnetic patterns or anomalies.

Minerals having strong magnetic susceptibility are magnetite and pyrrhotite and are usually, but not necessarily, associated as primary or accessory minerals in massive sulphide deposits; thus, coincident magnetic and other geophysical anomalies could be important, but are not necessarily required.

DESCRIPTION AND INTERPRETATION

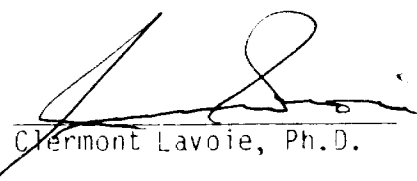
In order to define the geological structure, the total field magnetic readings were contoured at 0, 100, 200, 300, 500 and 1,000 gammas. This has allowed to outline two (2) diabase dykes having a North-West direction and which are parallel to one another. Other portions of dykes are possible such as in the area of line 22 W, station 55+00 S, and of line 18 E, station 10+00 S.

The total field and vertical gradient magnetic readings were drawn on a map. The profile of these values were drawn on a different map in order to facilitate the interpretation of the different geological formations present. This magnetic map should be interpreted with all the geological data. In general, the magnetic formations' contacts are located where the vertical gradient passes at zero.

CONCLUSION AND RECOMMENDATIONS

The magnetic survey shows an East-West geological structure as well as North-West dykes. This survey should be interpreted using all the geological data; this will help to understand the structure better.

Respectfully submitted,



Clément Lavoie, Ph.D.

GEO **LA LTÉE**
PHYSIQUE
LOGIQUE
EXPLORATION — SERVICES

STATEMENT FOR ASSESSMENT WORK

I, the undersigned, Clermont Lavoie,
for Géola Limitée, certify to the following.

During the period of July 30 to
August 20, 1984, a total of 63.34 miles of total
field and vertical gradient magnetic survey was
carried out over a property owned by Falconbridge
Ltd. This property is located 10 miles North-East
of the town of Timmins, immediately East of the
village of Pamour, in Whitney and Cody townships,
province of Ontario.

Mag. instrument: IGS-2 from Scintrex
Sensitivity: 0.1 gamma

MP-3 from Scintrex (base station)
Sensitivity: 0.1 gamma

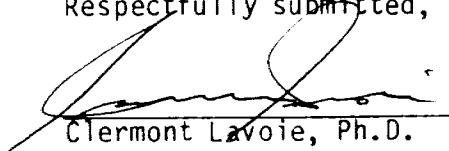
Operators:

(12 days) G. Bacon
29, Roy
Val d'Or, P.Q.

(1 day) M. Crépeau
Rang 2, Harricana West
St-Mathieu, Que.

(1 day) Y. Dallaire
Lac Blouin, P.Q.

Respectfully submitted,


Clermont Lavoie, Ph.D.

GEO LA LTÉE
PHYSIQUE
LOGIQUE
EXPLORATION — SERVICES

C E R T I F I C A T E

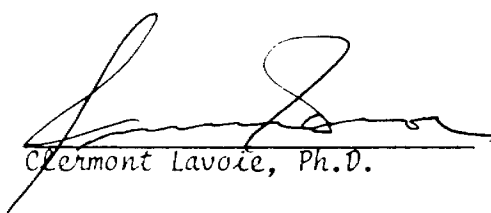
1. I, the undersigned, *Clermont Lavoie*, residing at 1148 Bérard Avenue, Val d'Or, Quebec, graduated with a B.Sc.A. degree in Geology from Ecole Polytechnique in 1965. I have obtained a M.Sc.A degree in Geophysics from Ecole Polytechnique in 1978, and received a Ph.D. in Geophysics from McGill University in 1972.

2. I am a member of the Order of Engineers of Quebec, the Canadian Institute of Mining and Metallurgy, the Quebec Prospectors Association and the Society of Exploration Geophysicists.

3. I do not hold, nor do I expect to receive, an interest of any kind in these claims held by FALCONBRIDGE LIMITED-----
nor in any other mining claims they may have.

4. The interpretation and recommendations described in this report are based partly on a personal and technical experience in this district of Quebec.

Signed in Val d'Or, this seventh (7th) day of the month of September, one thousand nine hundred and eighty-four (1984).


Clermont Lavoie, Ph.D.



42A11SE0200 63.4484 CODY

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FALCONBRIDGE LTD
REPORT ON AN INDUCED POLARIZATION SURVEY
HOYLE PROJECT (PN-608)
WHITNEY AND CODY TOWNSHIPS, ONTARIO
September 21, 1984 Magloire Berube, P. Eng.

SUMMARY

Geophysical, geochemical and geological surveys have just been carried out on the Hoyle projet in order to plan a budgeted 7000 foot diamond drill program. An IP survey has been contracted by Remy Belanger Enrg. who provided all readings and measurements on pseudo-sections. These sections were submitted to Maurice K. Seguin, geophysicist, for interpretation and recommendations. Seguin's results were provided on a 1:5000 foot scale map and on a manuscript in French, listing the results and 11 proposed drilling targets. The second part of the present report comes mainly from Seguin's notes.

INTRODUCTION

The main objective of the present report is to recommend diamond drill targets based on the results of a recent induced polarization survey.

PROPERTY DESCRIPTION

The property comprises 34 patented claims in one block in Whitney and Lody townships, 14 miles east of Timmins, Ontario. As outlined on the claim sketch shown on next page, highway 101 passes right over the northwest corner of two property claims. The main Famour Porcupine mine and mill are located on the property adjacent to the west and the Kidd Creek smelter, on the one adjacent to the north.

LOCAL GEOLOGY

The property geology can be summarized as an east-north-east trending and a steeply north-dipping overturned pile of alternating sedimentary and volcanic formations. The sediments are mainly represented by conglomerates, quartzites, greywackes, siltstones and argillites whereas the volcanic rocks are mainly represented by basalt and serpentine. Some mafic tuffs and graphitic bands occur as thin units in some sedimentary formations.

Walking from north to south across the property, one would first pass over 1500 feet of sediments followed by 1500 feet of mafic volcanics to get over an unconformity. Continuing, he would pass over 2000 feet of other sediments still followed by 2000 feet of mafic volcanics and finally over 1000 feet of sediments again before reaching the southern border of the property.

The huge low grade gold deposits mined by Famour Porcupine just west of the property boundary and even a few hundred feet inside the Hoyle property, were hosted by a basal conglomerate unit up to 125 feet wide, lying immediately south of the unconformity.

The Destor-Porcupine Break is supposed to follow the center of the southern volcanic pile. A few north-south diabase dykes have been observed on outcrops or magnetically inferred.

PREVIOUS WORK

The property is mostly covered by a thick mantle of sandy or swampy ground, except for 2 big outcropping areas in the western part of the property. More than 50 holes have been diamond drilled from surface, all located in a 500 to 1000 foot wide band covering the unconformity at the volcanic-sedimentary contact, on the extension of the Pamour-Porcupine orebodies. On the rest of the property, the geology had to be inferred from adjacent properties or interpreted from aeromagnetic maps.

In 1937 or so, Hoyle Mines sunk a vertical shaft at least 1800 feet deep and made some drifting and underground diamond drilling on five levels (200, 400, 600, 1000 and 1800) but never extracted any one. But from 1979 to 1983, Pamour Porcupine mined an orebody from the upper levels of the Hoyle property, both by open pit and from underground.

RECENT WORK

In June 1984, Colinex Inc. cut 66.8 miles of lines to cover the whole property. Most lines were cut north-south at 200 foot intervals and pickets were placed at 100 foot spacings using the four townships corner post (Hoyle, Matheson, Whitney and Cody) as zero coordinates.

During July and August 1984, Geola Ltee of Val d'Or carried out a total field and a vertical gradient magnetometer survey along 63.3 miles of lines with readings at 50 foot intervals. The total field results were presented as contours and the vertical gradient results, as profiles on the three 1:5000 scale maps accompanying the report.

During August and September, over 100 samples have been collected by 2 technicians for geochemical gold analysis. Also, the outcrop area south of the open pit has been mapped by the author.

In July and August 1984, Remy Belanger Enrg. of Noranda covered the whole property with an Induced Polarization survey, using Phoenix 1PV-1 and 1PT-1 instruments working in the frequency domain. IP readings were taken along 36.9 miles of lines distant of 400 feet (every second line). The dipole-dipole configuration was used, with frequencies of 0.25 and 4.0 Hz and a spread of 200 feet. The readings were all done for $N = 1$ to 5. Remy Belanger provided a set of pseudo-sections showing all readings of resistivity and all measurements of frequency effect altogether with the calculated metal factor.

Maps provided by Geola Ltee and Remy Belanger Enrg were submitted to Maurice K. Seguin, geophysicist, for interpretation and recommendations.

IP RESULTS

In the list below, Maurice K. Seguin first studied and presented the IP results line by line, giving the location of the anomalies, their appreciation and their corresponding magnetism.

<u>Line</u>	<u>IP anomaly</u>	<u>Classification</u>	<u>Magnetism</u>
62 W	70-74 S	B	400
58 W	68-73 S	B (surface ?)	350
54 W	70-74 S	B (surface ?)	300
50 W	39-43 S	A	0
	68-72 S	A ?	100
46 W	38-42 S	A-B (mine)	0
	66-70 S	A ?	0
42 W	36-39 S	A-B (surface?)	400
	63-67 S	A (very good)	0
	52-54 S ?	A-B (deep)	0
38 W	47-51 S	A-B	0
	37-40 S	A-B	300
	62-65 S	B ?	0
34 W	40-43 S	A ?	0
	62-65 S	A (deep)	300
	73-75 S	A (deep)	300
30 W	73-76 S	B-A	150
	47-53 S	A (deep)	0
26 W	14-17 S	A-B (surface?)	0
	40-44 S	B (deep?)	0
	54-60 S	B	0
	72-75 S	B-A (surface?)	200
22 W	13-17 S	B	0
	55-60 S	B (contact)	0-300
	72-77 S	A	200
18 W	12-17 S	B	0
	52-56 S	B	0
	70-76 S	A	200
14 W	12-17 S	B (surface?)	0
	47-50 S	B	0
	53-56 S	B (contact?)	0-100
	68-74 S	A	300
10 W	12-16 S	B (surface?)	0
	38-40 S	C	0

Line	IP anomaly	Classification	Magnetism
10 W	49-54 S	B (contact?)	0-100
	63-65 S	B	800
	71-76 S	A?	250
8 W	13-17 S	A	0
	38-40 S	B	0
	46-54 S	A	0
	60-63 S	B	500
	67-73 S	B? (swamp)	200-500
2 W	13-17 S	B-A	0
	35-40 S	B-C	0
	48-53 S	B	200-300
	55-58 S	B	400
	67-74 S	A	200-300
2 E	11-15 S	B	0
	44-47 S	B	100
	66-72 S	A	200-300
8 E	12-17 S	B-C	0
	42-47 S	A	100
	69-72 S	A-B (surface?)	100-300
10 E	12-18 S	A	0
	43-48 S	A-B (near contact)	100-300
	67-72 S	B-A	50
14 E	14-18 S	B	0
	44-49 S	A-B (contact?)	100-300
	56-59 S	B-C?	200-300
	65-72 S	A-B	200
18 E	15-18 S	B (surface?)	0
	42-47 S	B-A (surface?, contact?)	150
	67-70 S	B?	200
22 E	14-18 S	B (surface?)	100
	41-47 S	B (contact?)	100
	50-52 S	B-C (surface?)	200
	62-68 S	A-B	0-300
26 E	62-65 S	A	400

Then, all these IP anomalies have been illustrated on a 1:5000 scale map where they are shown along their respective lines as full, crossed or empty bars according to their classification or order of priority.

INTERPRETATION

Then, Maurice K. Seguin connected each anomaly with axes from one line to the next, whenever possible, grouping them all in five main axes or band numbered from 1 to 5. Here is how he described the characteristics for each band:

Band 1

Magnetism is null. Two anomalies of priority 1 and two of priority 3. Probably caused by graphite or sulphides along a sedimentary contact.

Band 2

The magnetism varies from 0 to 400 gammas. One anomaly of priority 1, one of priority 2 and three of priority 3. Except for two anomalies of priority 3 near the diabase dyke, the magnetism is 0.

Band 3

One anomaly of first priority and two of third priority. No magnetism: sediments.

Band 4

Three anomalies of first priority, one of second and two of third priority. Magnetism from 0 to 300 gammas. Seems close to a contact between a sediment and a metavolcanic or other basic rock.

Band 5

Seven anomalies of priority 1, one of priority 2 and four of priority 3. Magnetism from 200 to 400 gammas. This band is not located in metasediments but in volcanic rocks or tuffs. May be caused by graphite or massive sulphides.

Correlation between Frequency Effect and Resistivity, for N=1-5

Band	Correlation
1	Yes
2	Doubtfull (open-pit)
3	No
4	Yes
5	Res. axis 500' north of FE
	Yes

those are the results as interpreted by Maurice K. Seguin, geophysicist.

RECOMMENDATIONS

From the above interpretation, Maurice Seguin recommended the following drilling targets:

<u>Band</u>	<u>Line</u>	<u>Post</u>	<u>Band</u>	<u>Line</u>	<u>Post</u>
1	6+00 W	12+50 S	4	6+00 W	46+00 S
1	10+00 E	12+00 S	4	6+00 E	42+00 S
2	34+00 W	40+00 S	5	18+00 W	70+00 S
3	30+00 W	47+00 S	5	2+00 E	66+00 S
4	50+00 W	72+00 S	5	26+00 E	63+00 S
4	34+00 W	63+00 S			

(The total footage required to test those 14 IP targets only would amount to 5500 feet, allowing an average of 500 feet per target, only 1500 feet short of the budgeted drill program. The other surveys might also provide drill targets when all data will be in and fully interpreted.

September 21, 1984

Magloire Berube

Magloire Berube, P. Eng.
Project Supervisor

CERTIFICATE

I, the undersigned, Magloire Berube, residing at 1077 avenue Louis Jobin, Sainte-Foy, Province of Quebec, certify as follow:

1. I received a B.Sc.A. degree in Geology from Laval University in 1958 and I practise the profession of Geological Engineer since then;

2. I am a member of the Corporation des Ingenieurs du Quebec, of the Canadian Institute of Mining and Metallurgy, of the Prospectors and Developpers Association and of the Quebec Prospectors Association;

3. I do not hold, nor I expect to receive an interest of any kind in the claims held by Falconbridge Ltd, in Withney and Cody townships, Ont. nor in any other properties of Falconbridge Ltd.

4. My descriptions in the present report dated September 21, 1984, are based on 25 years of experience in mining exploration and development in Northwestern Quebec and Northeastern Ontario, and on a knowledge of all previous and recent work done on the Hoyle property of Falconbridge Ltd in Withney and Cody townships, Ontario.

Magloire Berube

Sainte-Foy, September 21, 1984

Magloire Berube, P. Eng.

Maurice K. Seguin
Geophysicist
Universite Laval
Pavillon Lemieux, Suite 7584
Quebec, Quebec
G1K 7P4

CERTIFICATE

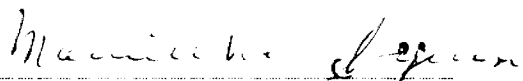
I, the undersigned, Maurice K. Seguin residing at suite 7584, Pavillon Lemieux, Universite Laval, Quebec, Province of Quebec, has obtained a B. Sc. degree in geology in 1962 at Ecole Polytechnique of Montreal. In 1963, I obtained a M. Sc. degree in geology at McGill University and in 1965, a Ph. D. degree in geophysics at the same University.

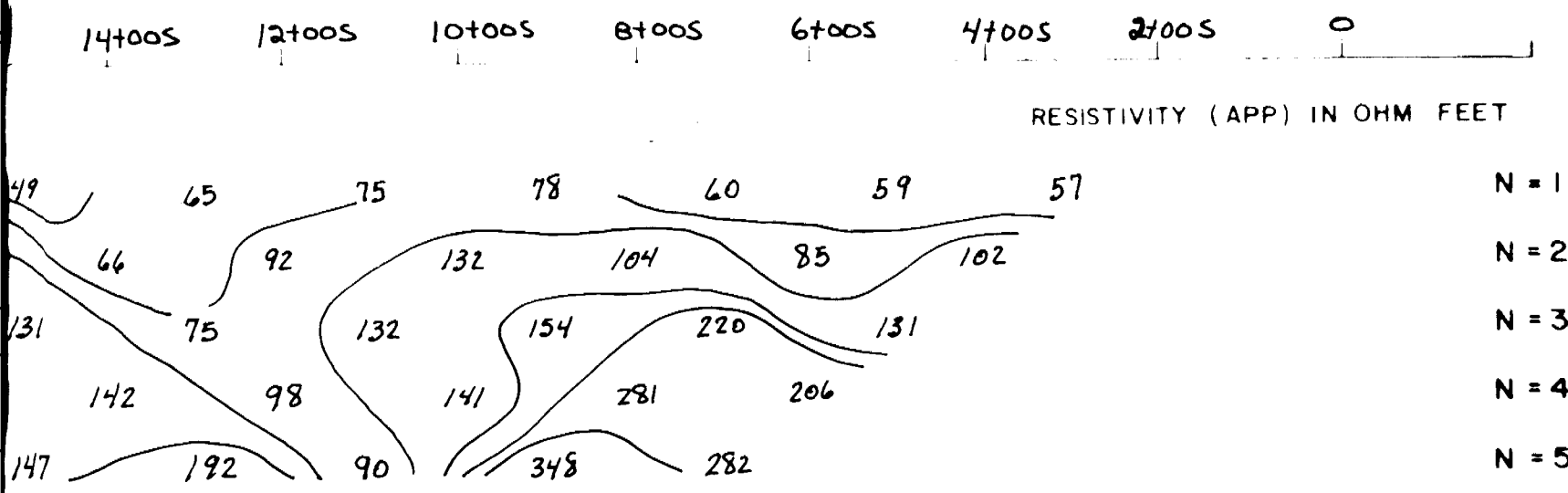
I am a member of the Geological Association of Canada, of the Quebec Geologists Association, of the Canadian Geophysical Union, and of the American Geophysical Union.

I do not hold and I do not expect to receive an interest on the claims belonging to Falconbridge Ltd in Whitney and Cody townships, Ont. or an interest from other claims that this company may have.

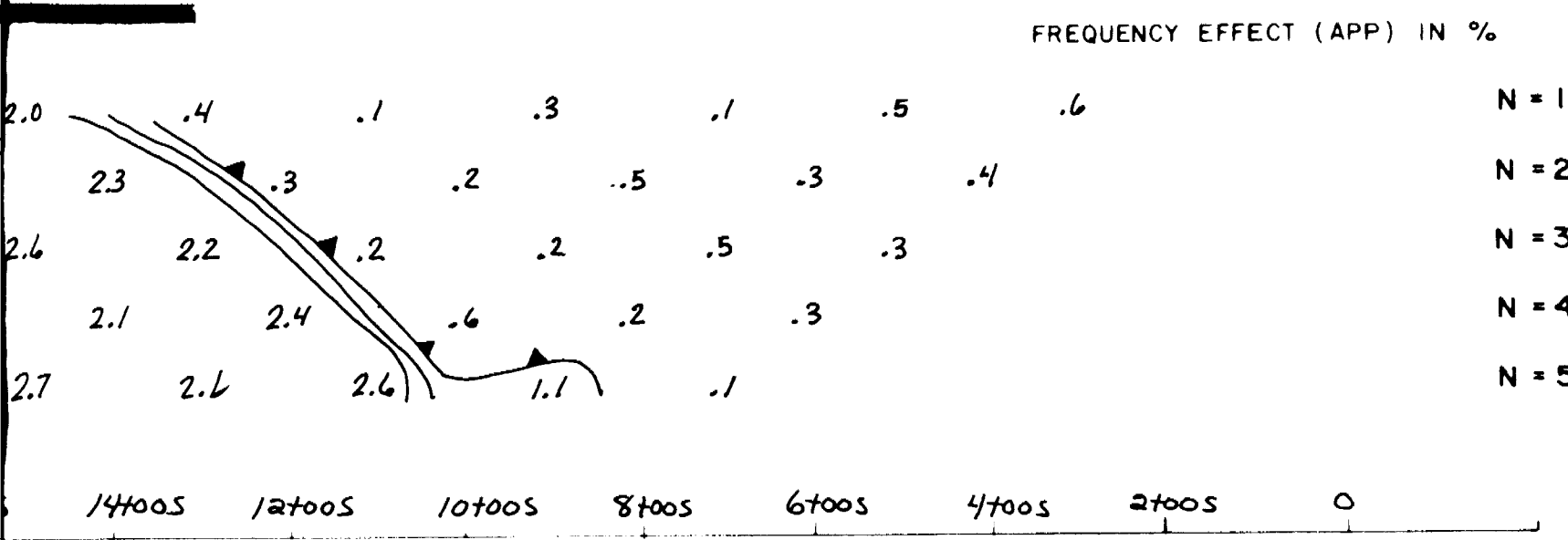
The interpretation and recommendations referred to me in the following report "Report on an Induced Polarization Survey on the Hoyle projet, in Whitney and Cody townships, Ont., dated September 21, 1984 and signed by Magloire Berube, P. Eng." are mine and are based on my technical and professional experience as a consulting geophysicist.

Signed in Quebec, this 21st day of September, one thousand nine hundred and eighty four (1984)

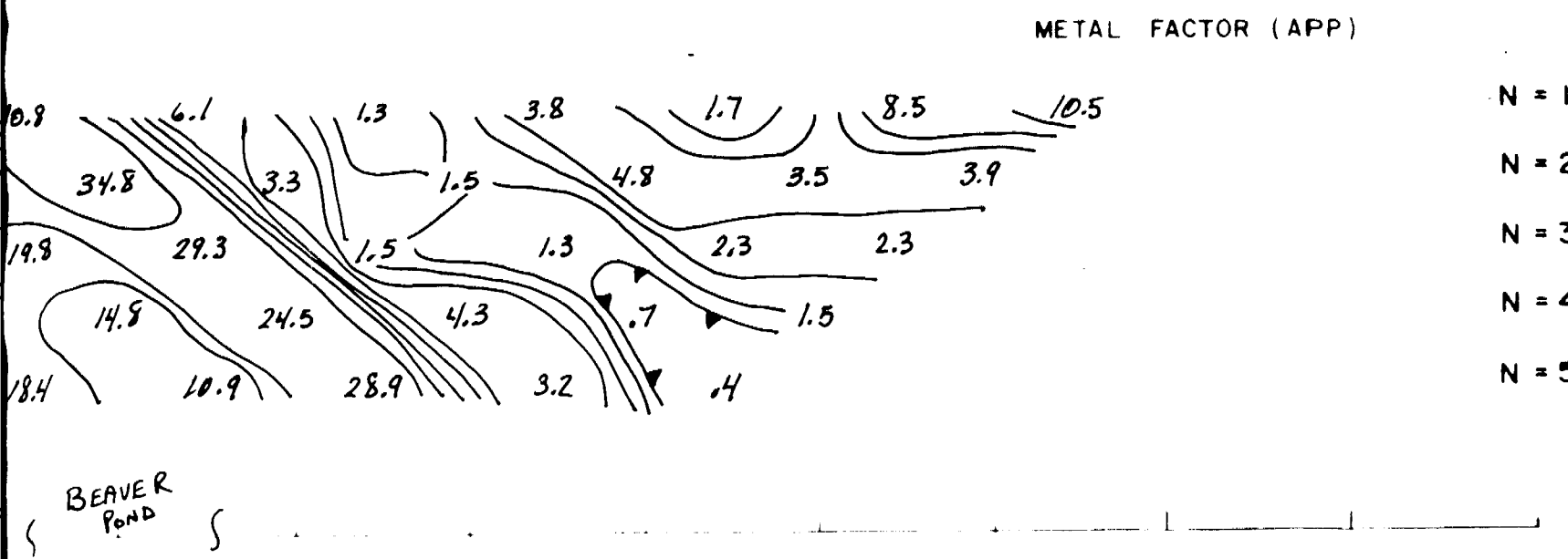

Maurice K. Seguin, Ph. D.



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N = 2
N = 3
N = 4
N = 5



N = 1
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N = 5



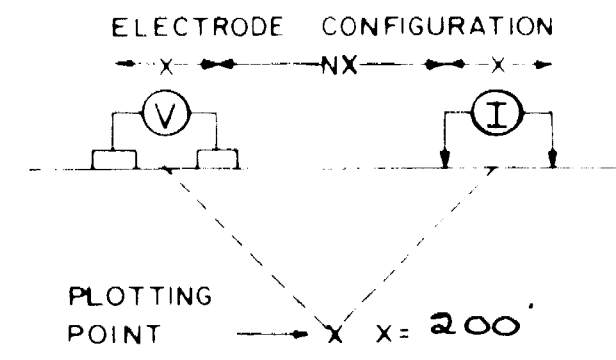
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COMPANY: FALCONBRIDGE LTD.

PROPERTY: HOYLE

TIMMINS - ONTARIO

LINE NO - 6700W



SURFACE PROJECTION OF ANOMALOUS ZONES

FREQUENCIES: .25 & 4.0 H.Z.

DEFINITE
PROBABLE
POSSIBLE

NOTE CONTOURS AT LOGARITHMIC INTERVALS 1, 1.5, 2, 3, 5, 7.5, 10.0

INSTRUMENT PHOENIX IPV-1
IPT-1
CONTRACTOR REMY BELANGER ENRG

DATE SURVEYED JULY 11 - AUG. 09 - 1984
16-

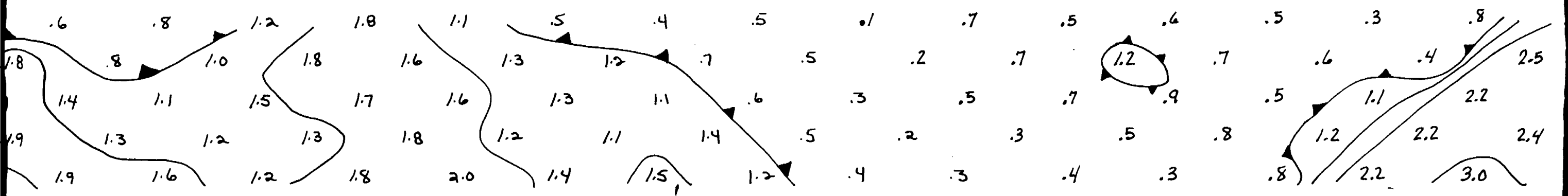
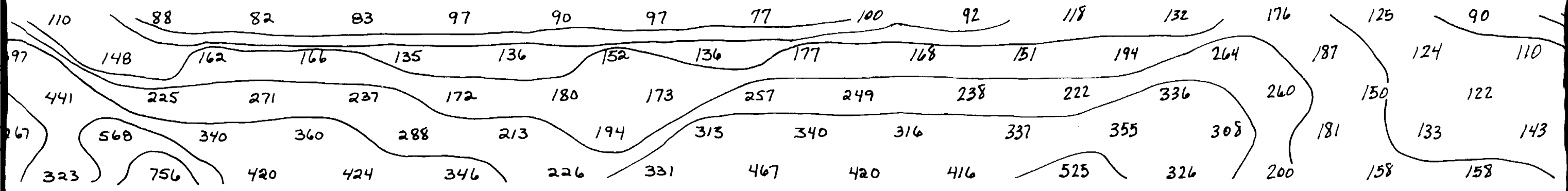
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OPERATOR REMY BELANGER

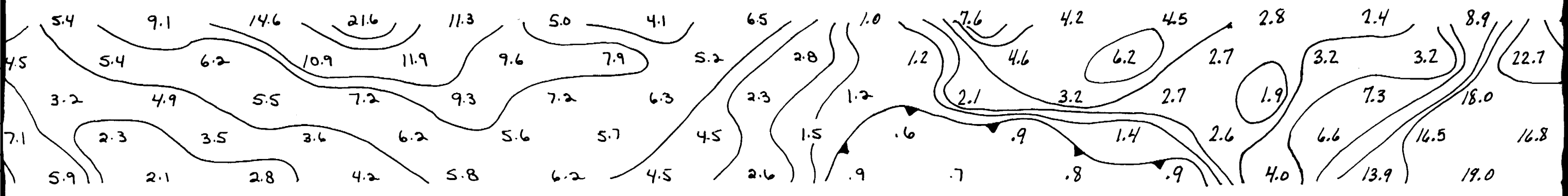
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INDUCED POLARIZATION AND RESISTIVITY SURVEY

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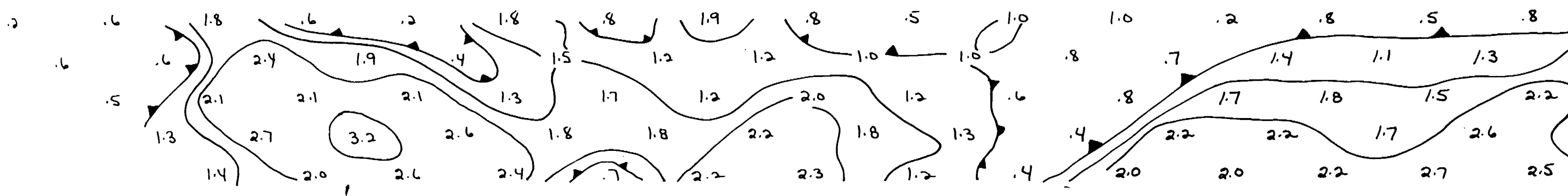
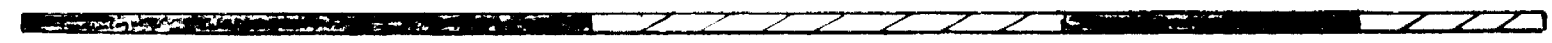
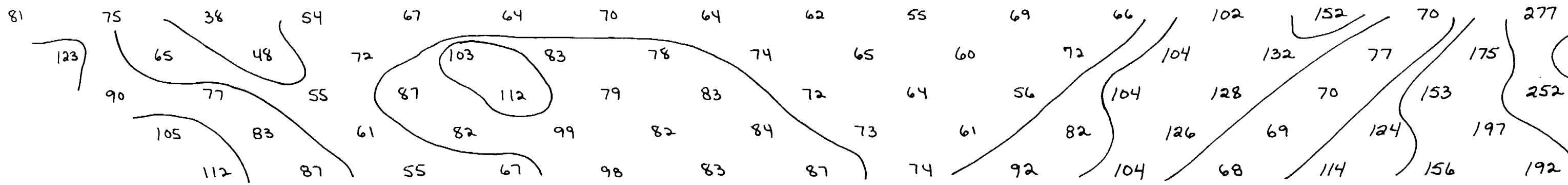


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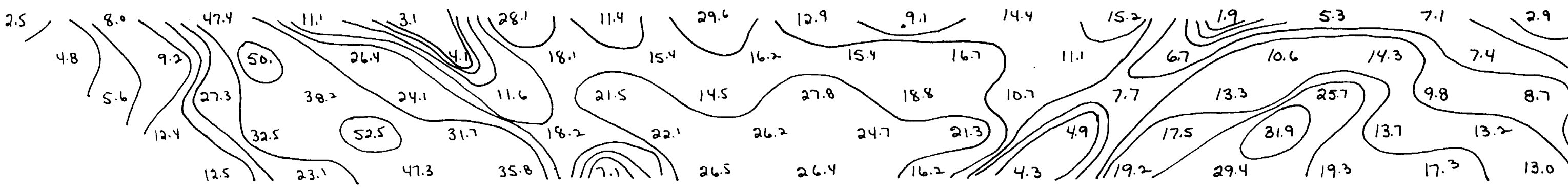


BEAVER POND

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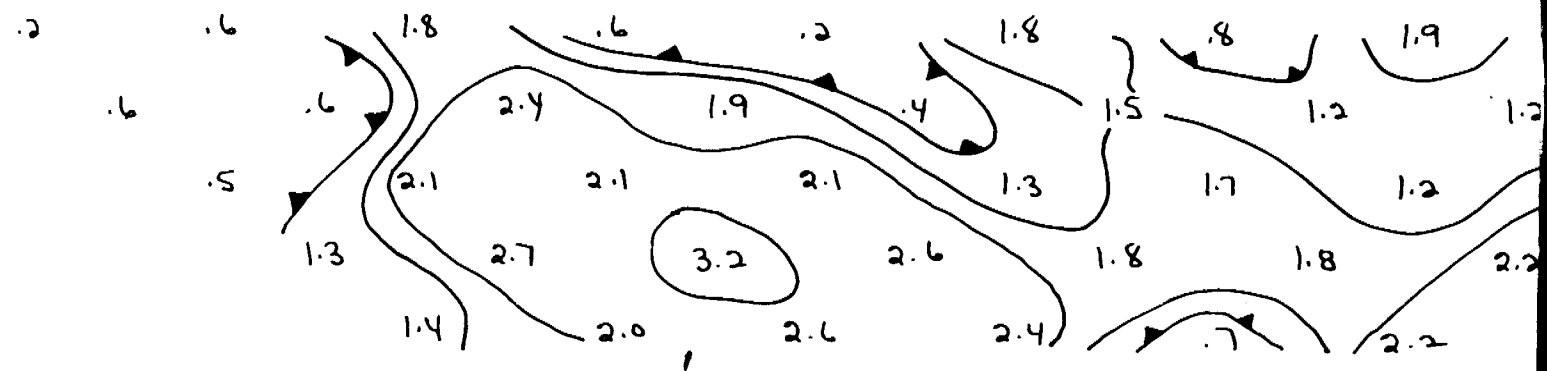
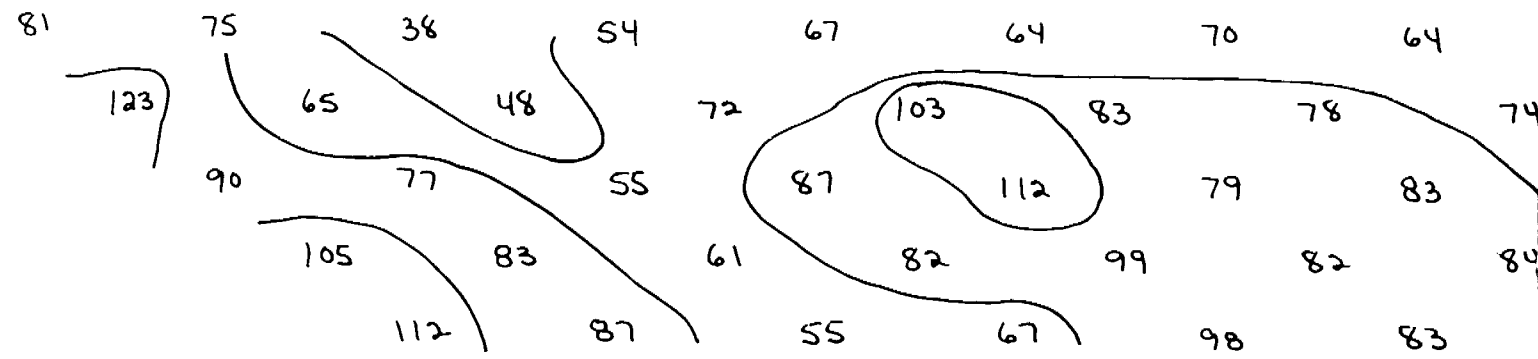


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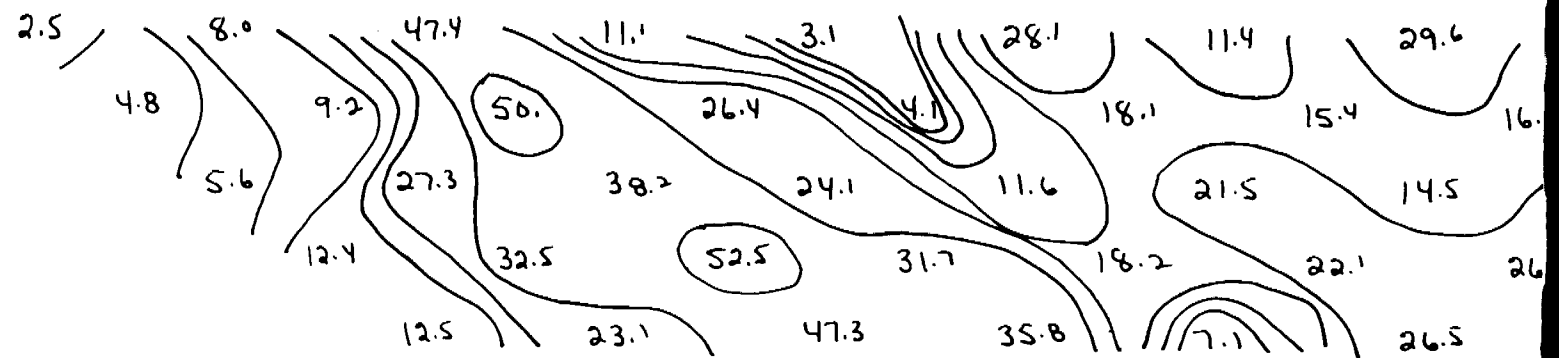


SWAMP SWAMP HILL BOULDERS

80+00S 78+00S 76+00S 74+00S 72+00S 70+00S 68+00S 66+00S 64+00S 62+00S



80+00S 78+00S 76+00S 74+00S 72+00S 70+00S 68+00S 66+00S 64+00S 62+00S

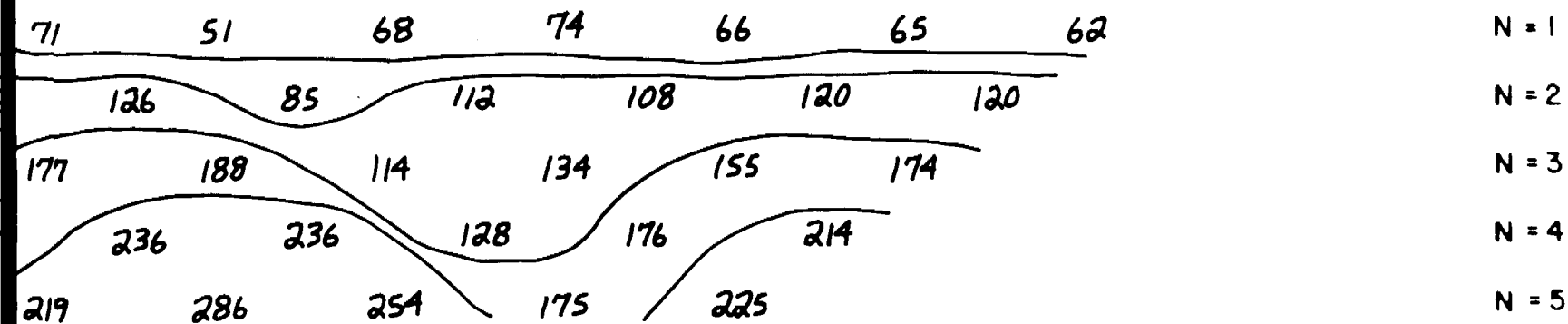


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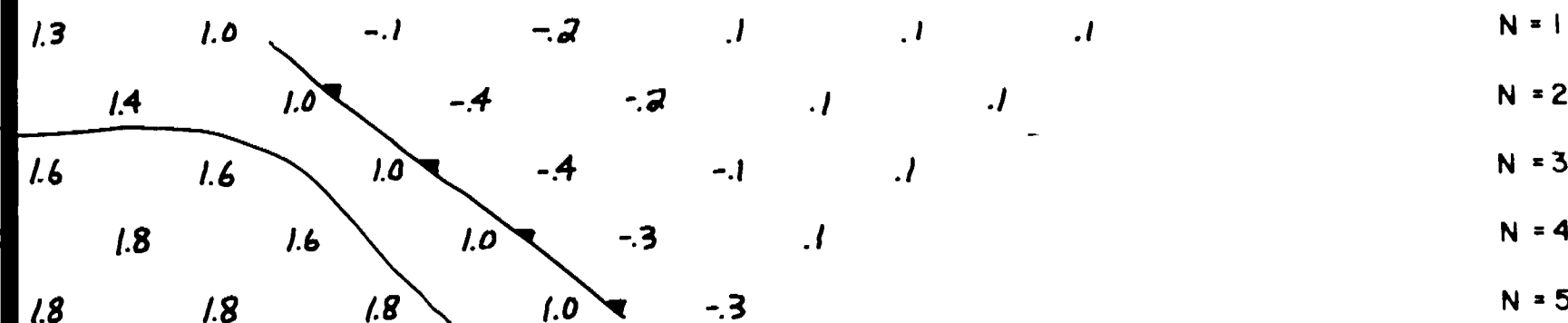
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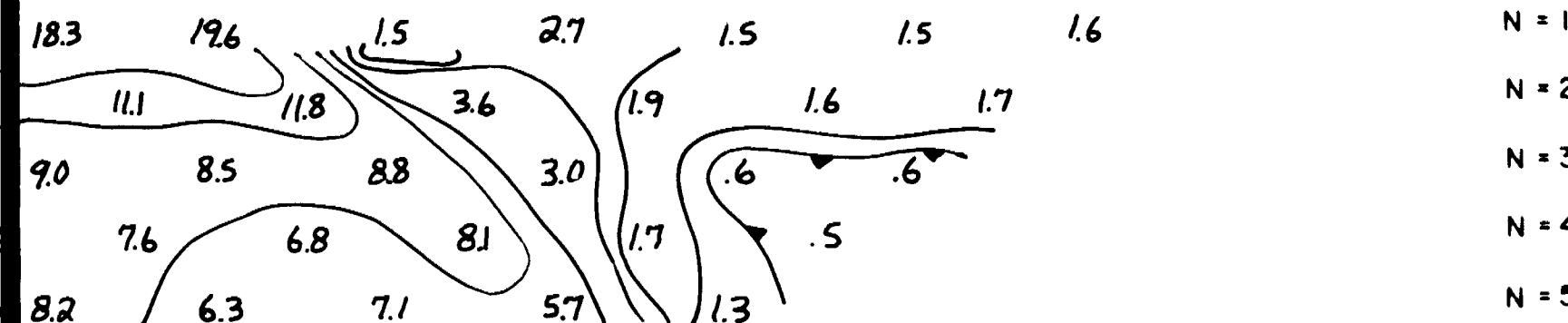


FREQUENCY EFFECT (APP) IN %



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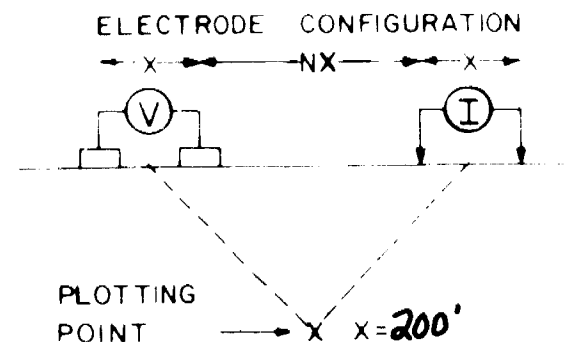
WATER

COMPANY: FALCONBRIDGE LTD.

PROPERTY: HOYLE

TIMMINS, ONTARIO

LINE NO - 6 E



SURFACE PROJECTION OF ANOMALOUS ZONES

FREQUENCIES: 0.25 & 4.0 HZ.

DEFINITE **————**
 PROBABLE **|||||**
 POSSIBLE **////**

NOTE CONTOURS AT LOGARITHMIC INTERVALS 1, 15, 2, 3, 5, 7.5, 10.0

INSTRUMENT PHOENIX IPV-1
 IPT-1
 CONTRACTOR REMY BELANGER ENRG.

DATE SURVEYED

APPROVED

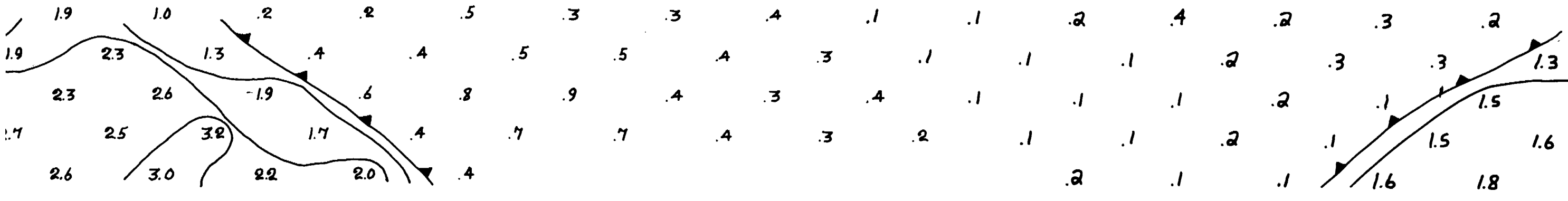
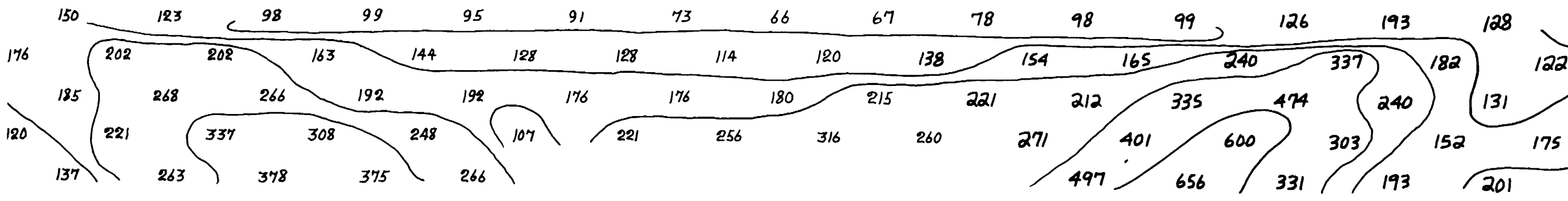
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OPERATOR _____

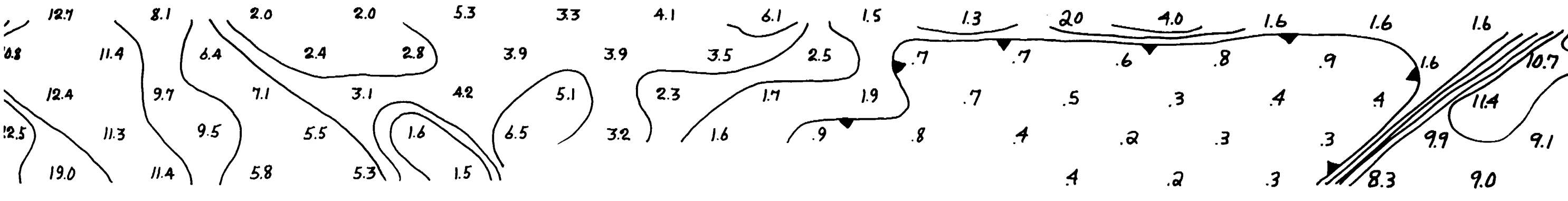
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INDUCED POLARIZATION AND RESISTIVITY SURVEY

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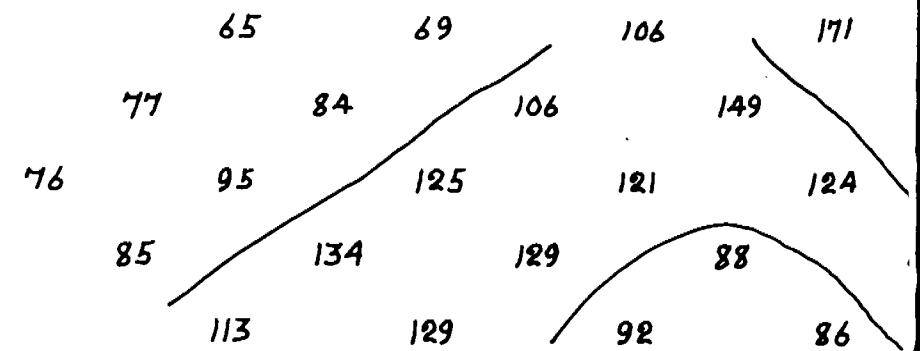
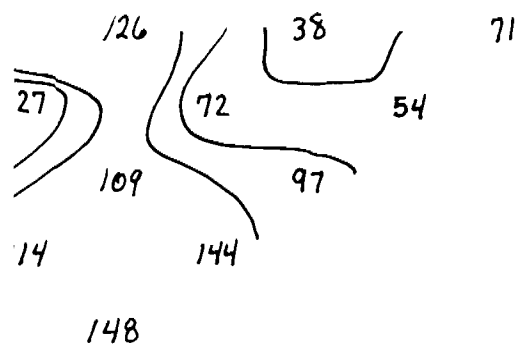


65 445 425 405 385 365 345 325 305 285 265 245 225 205 185 165

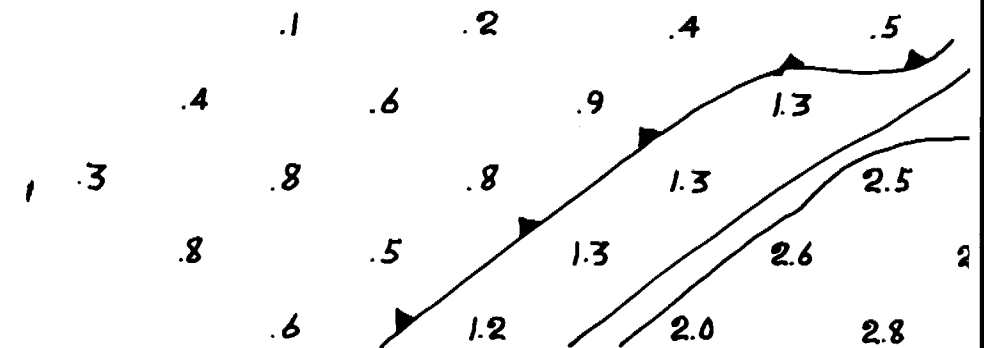
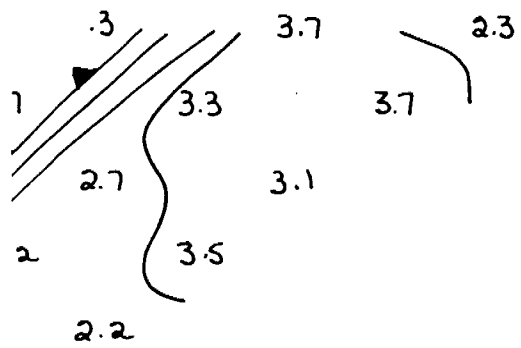


← FLAT →

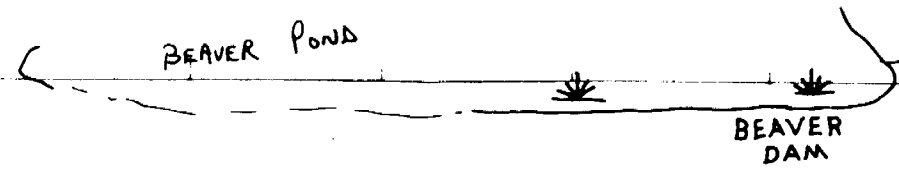
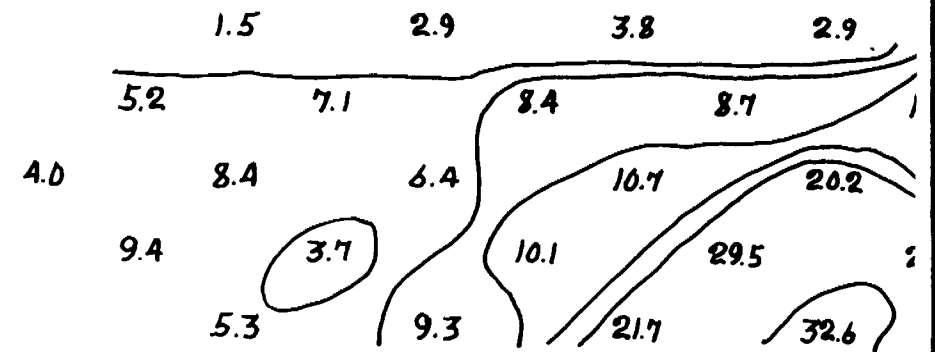
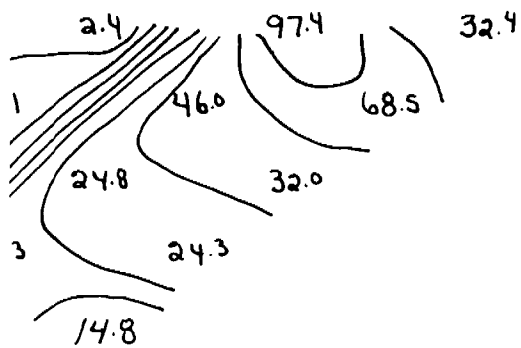
45 725 705 685 665 645 625 605 585 565 545 525 505 485 4



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15 725 705 685 665 645 625 605 585 565 545 525 505 485 4



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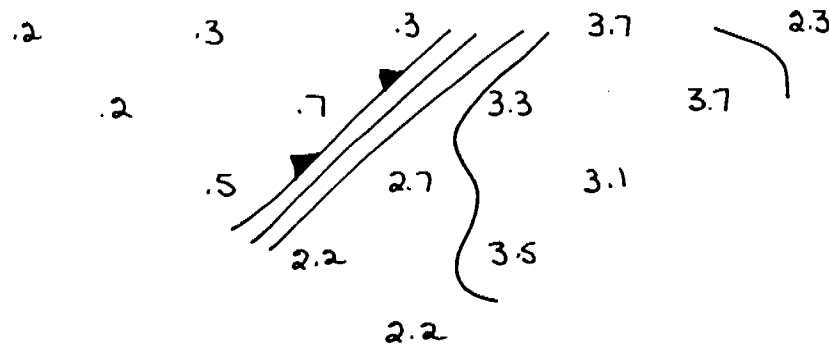
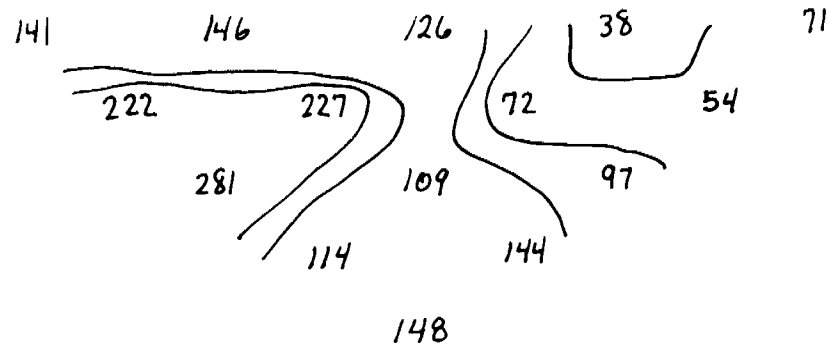
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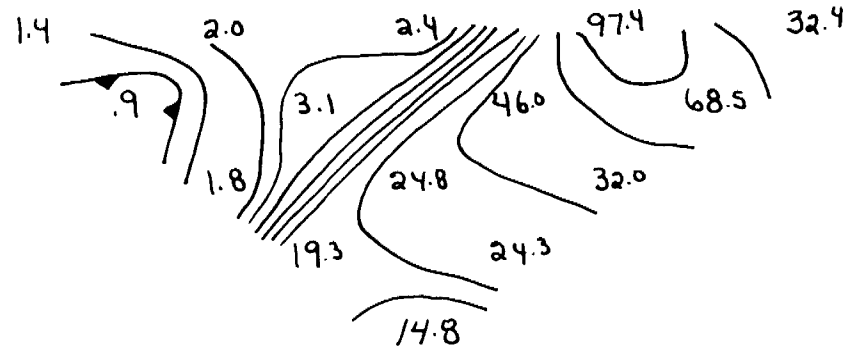
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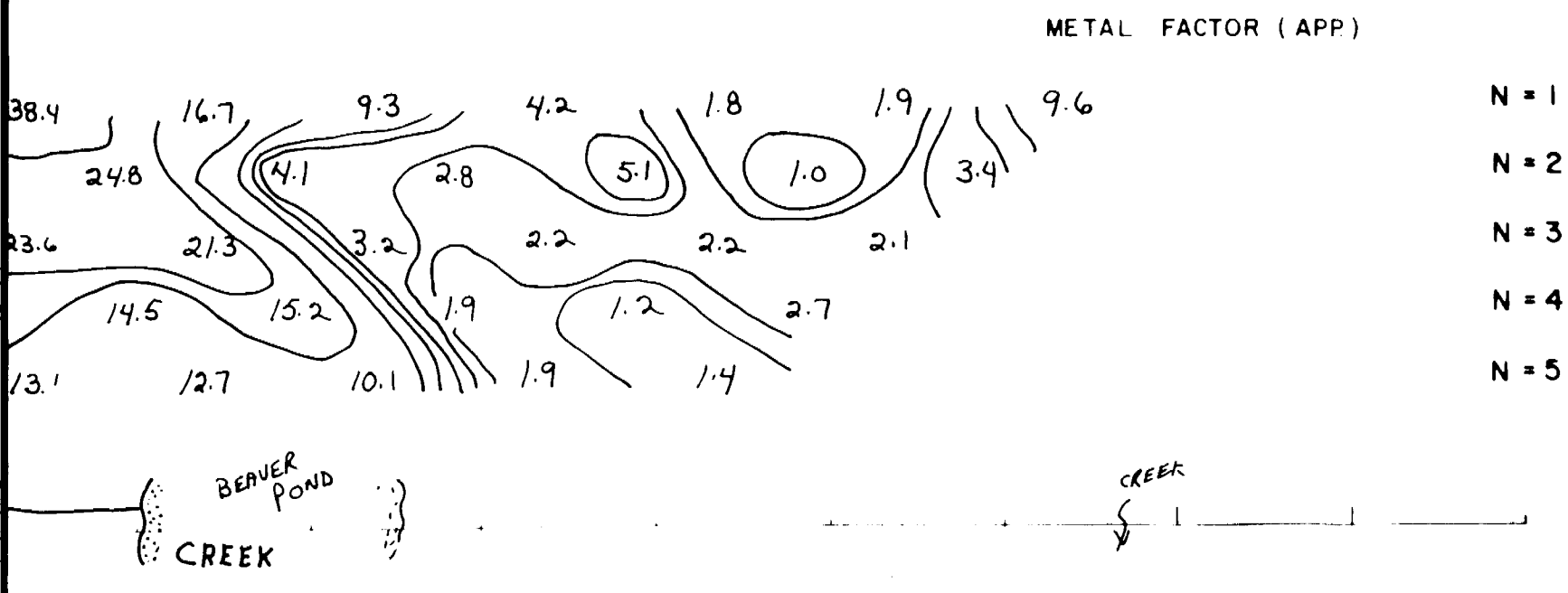
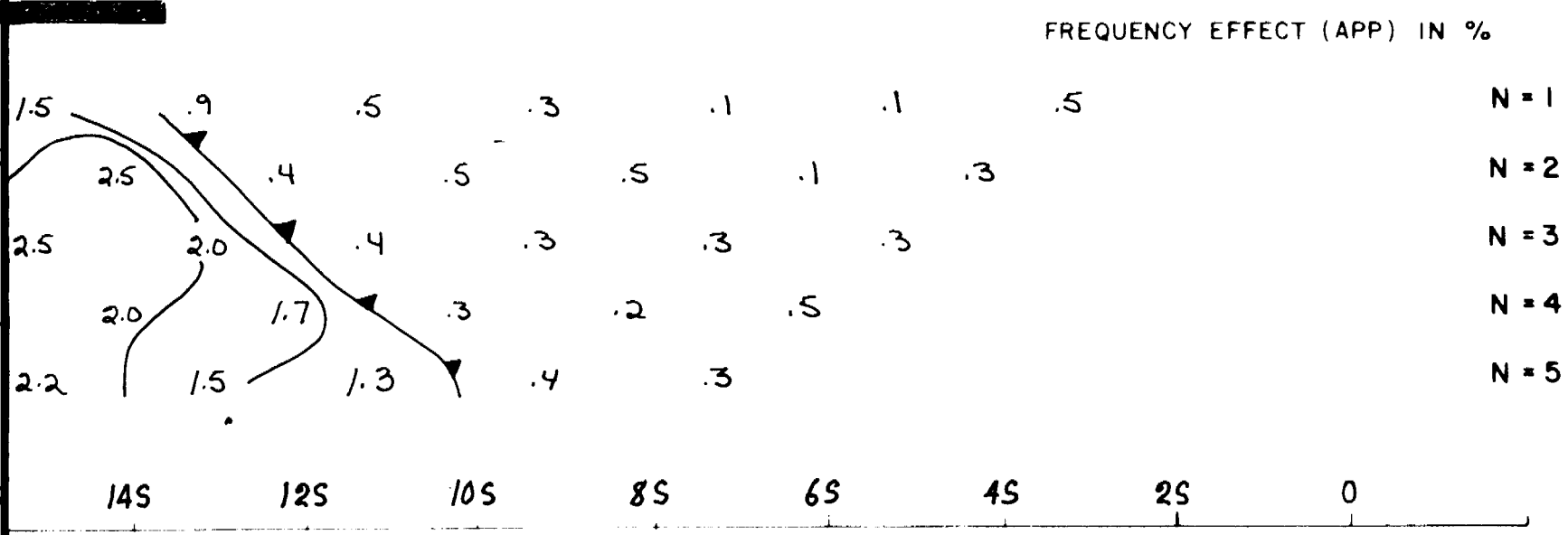
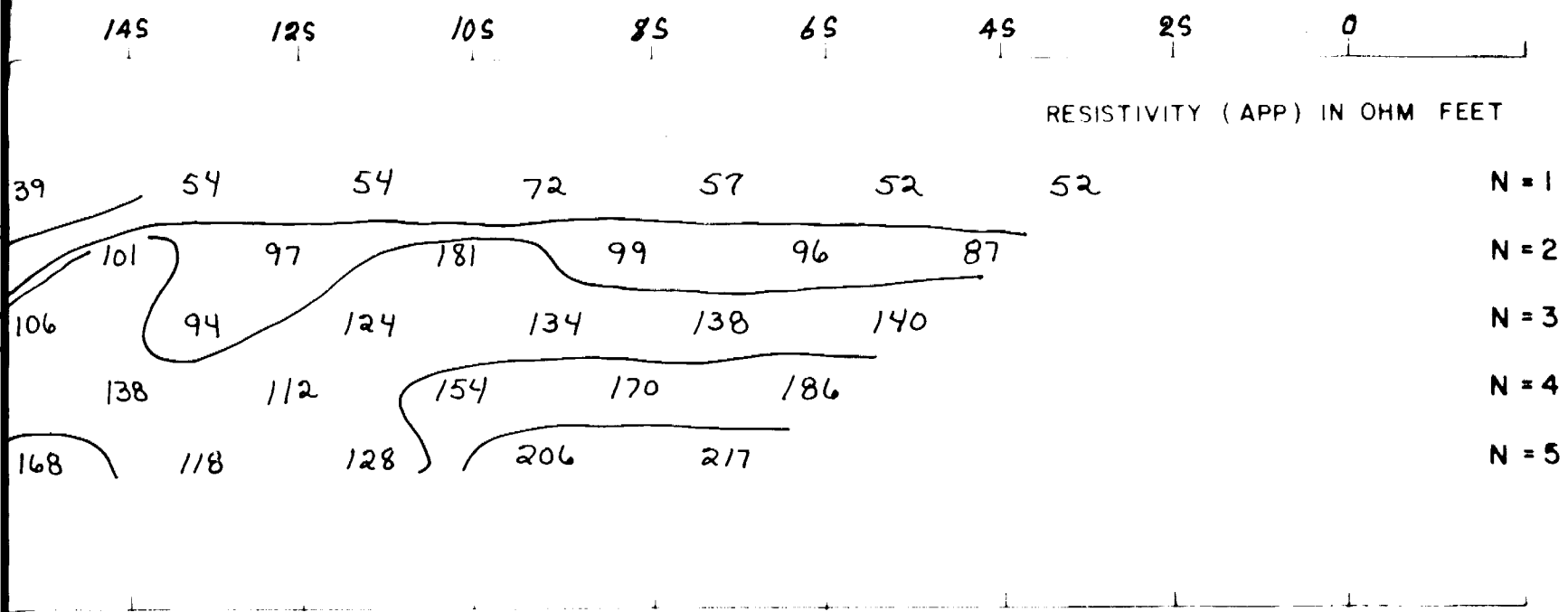
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BEAVER POND

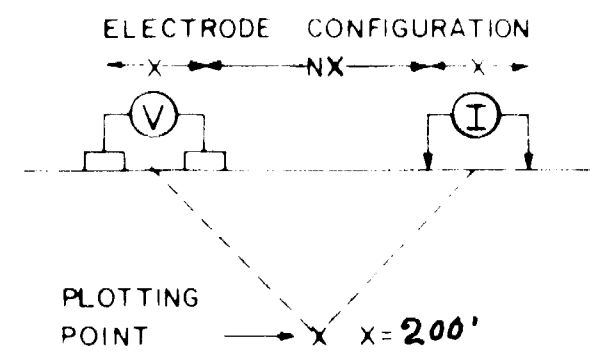


COMPANY: FALCONBRIDGE LTD.

PROPERTY: HOYLE

TIMMINS, ONTARIO

LINE NO - 2W



SURFACE PROJECTION OF ANOMALOUS ZONES

FREQUENCIES 0.25 & 4.0 H.Z.

DEFINITE

PROBABLE

POSSIBLE

NOTE CONTOURS AT LOGARITHMIC INTERVALS 1, 1.5, 2, 3, 5, 7.5, 10.0

INSTRUMENT PHOENIX IPV-1 IPT-1

CONTRACTOR REMY BELANGER ENRG

DATE SURVEYED

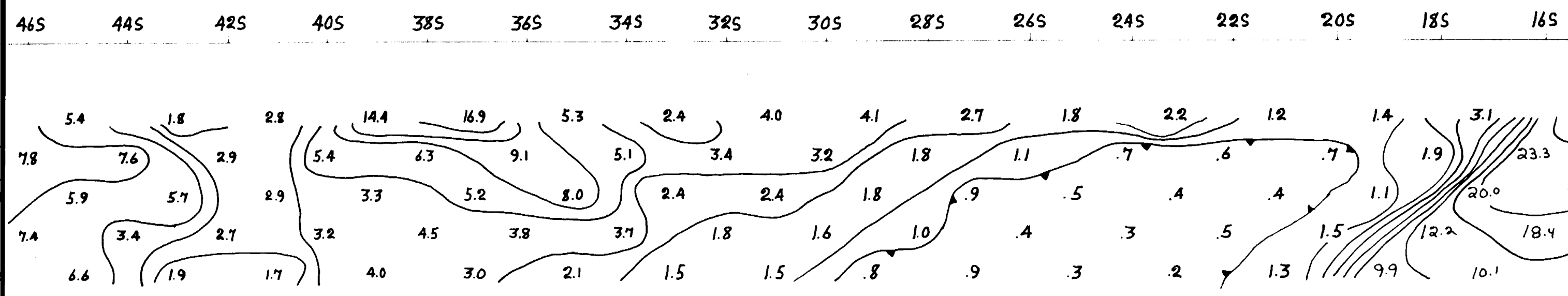
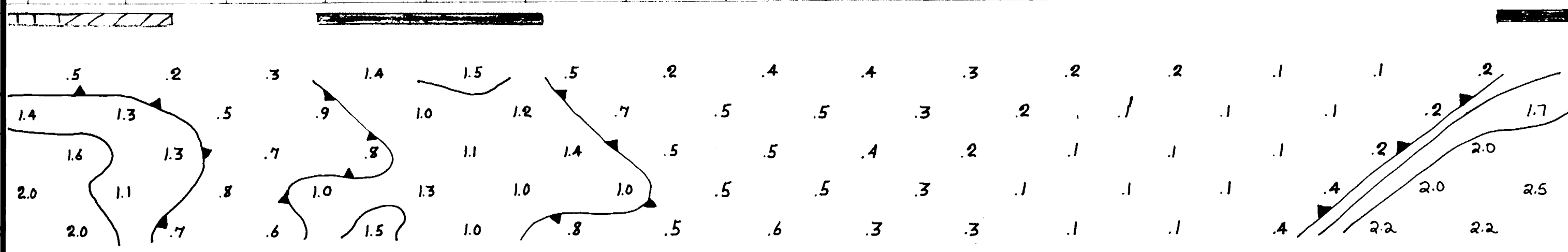
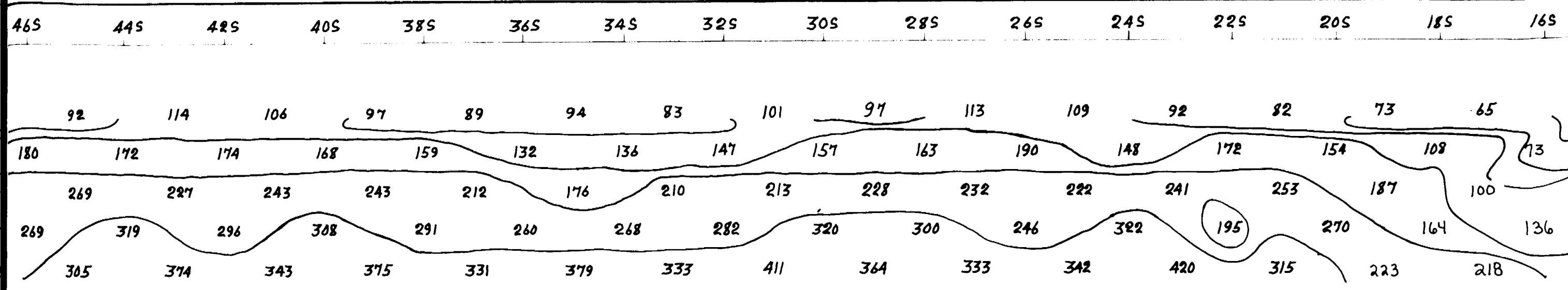
APPROVED

JULY -4-11- AUG. 09-84
17-

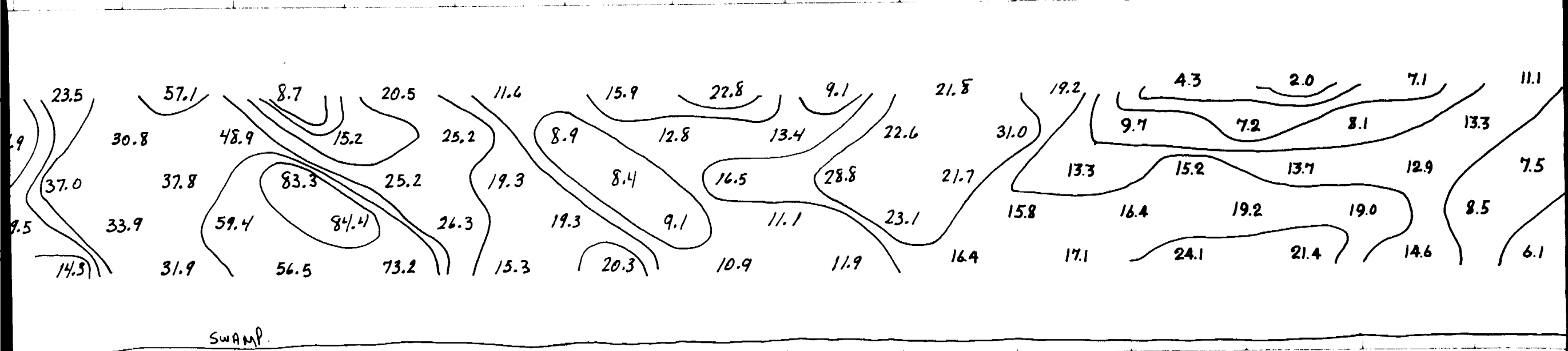
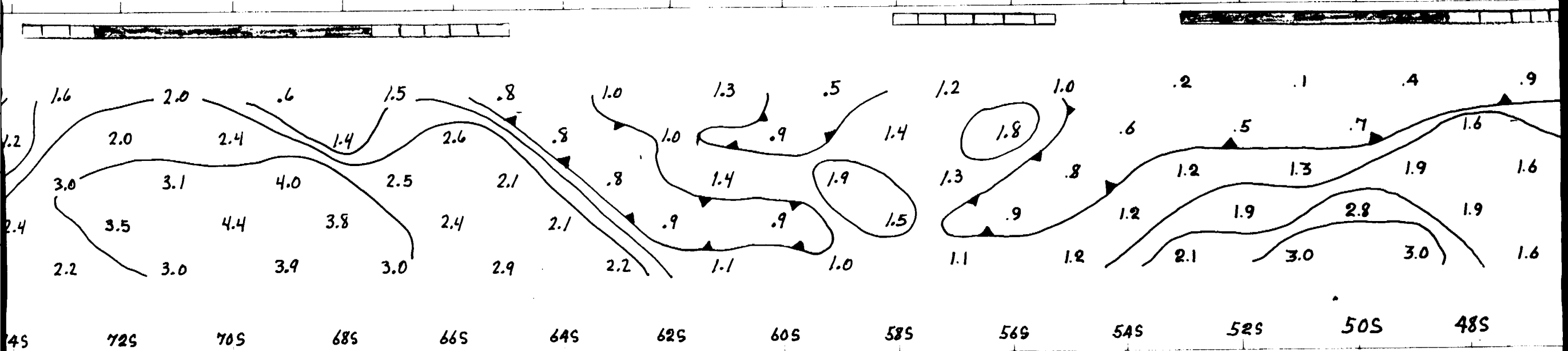
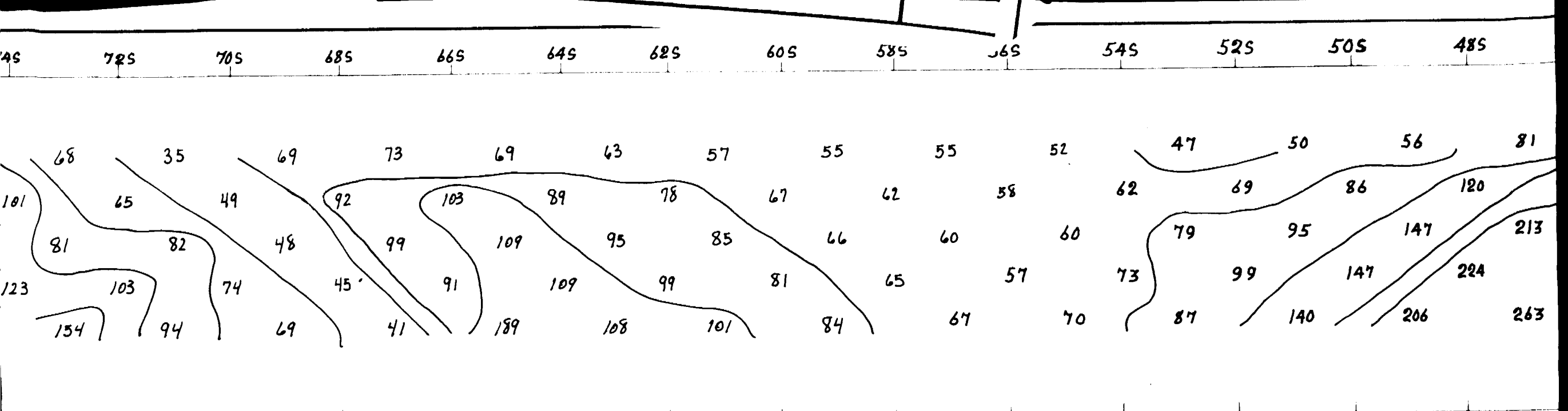
OPERATOR ANDRE FAUBERT

DATE _____

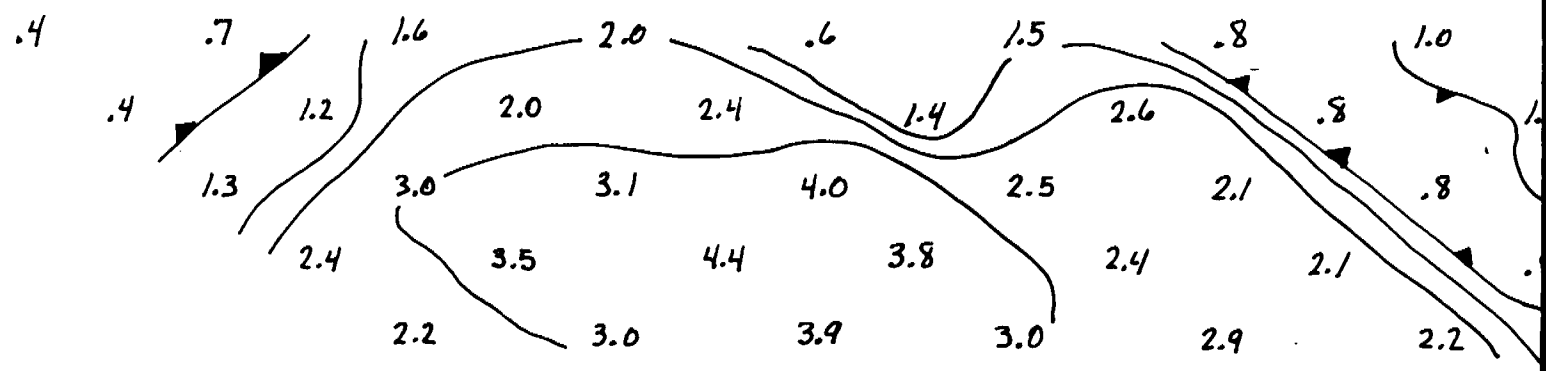
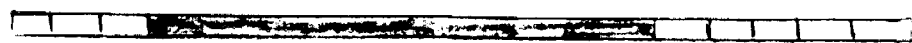
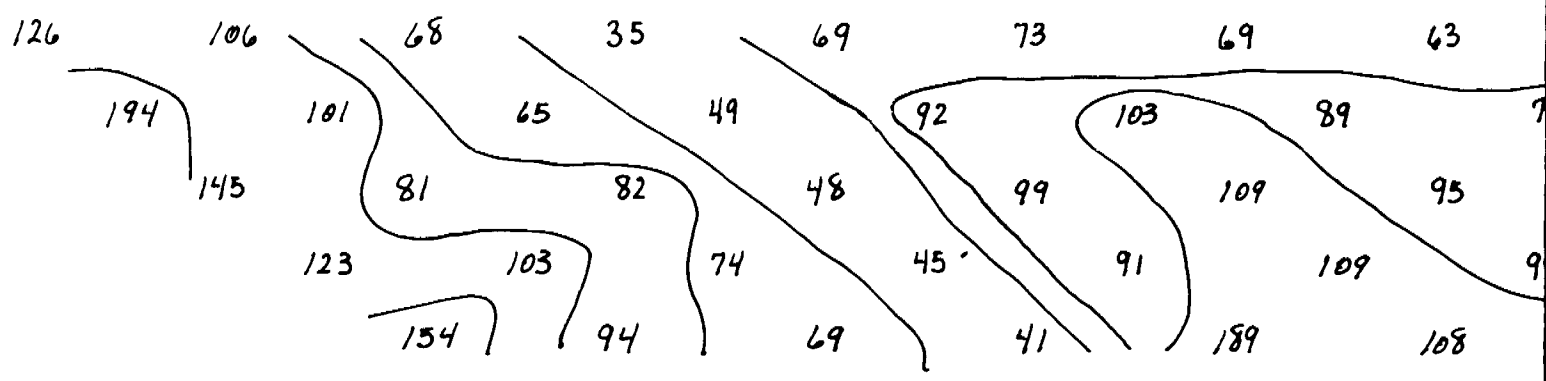
INDUCED POLARIZATION AND RESISTIVITY SURVEY



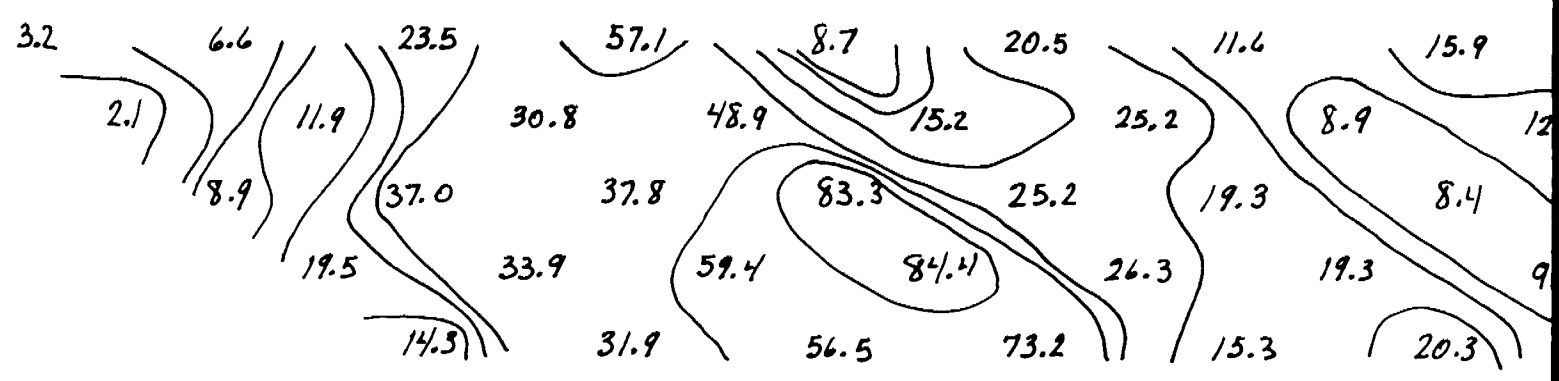
←FLAT→



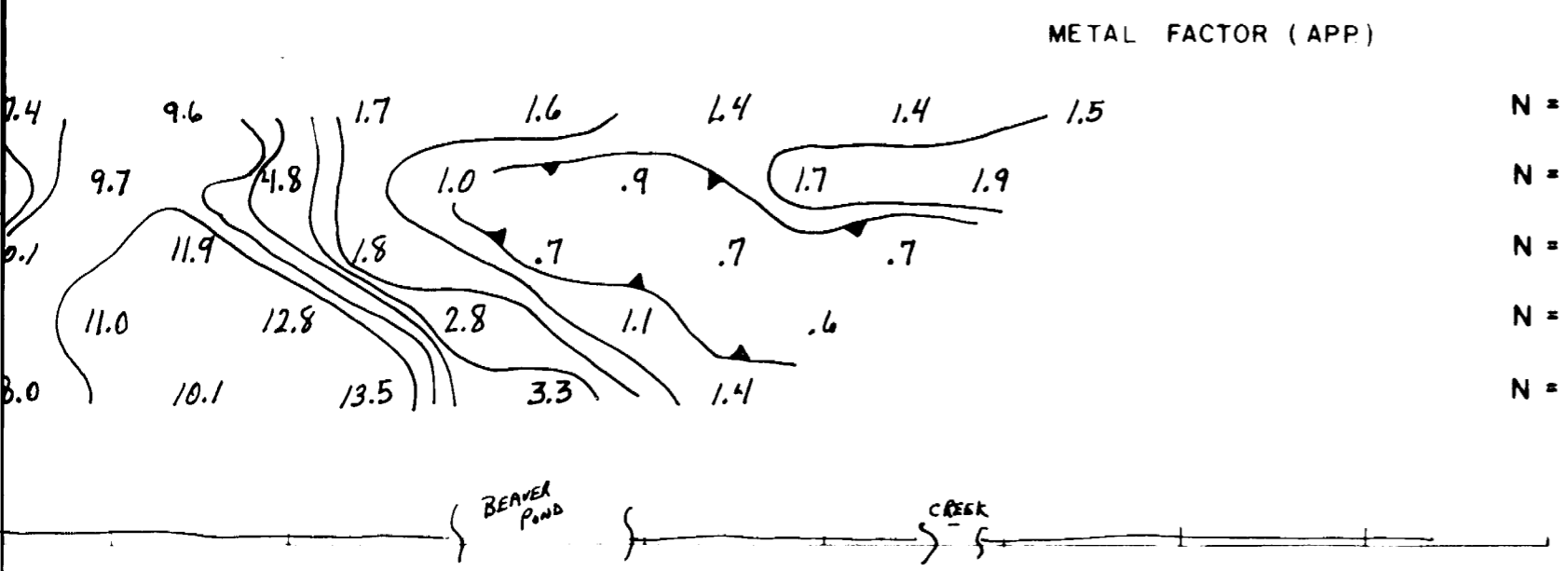
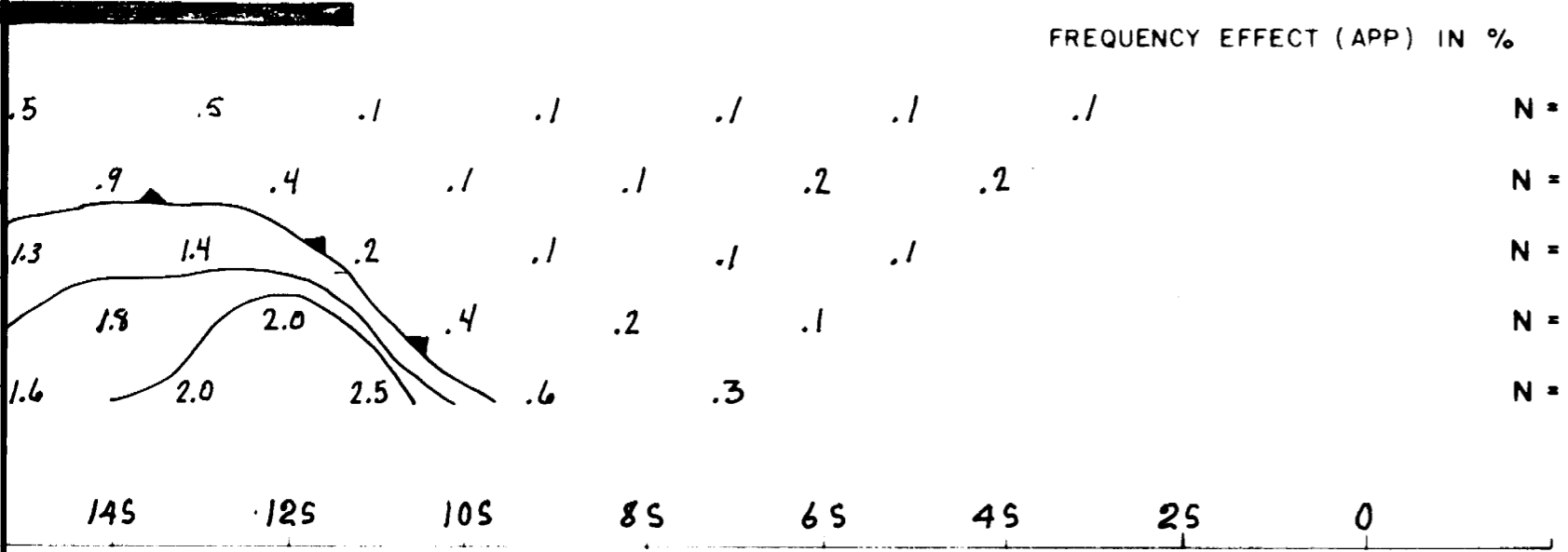
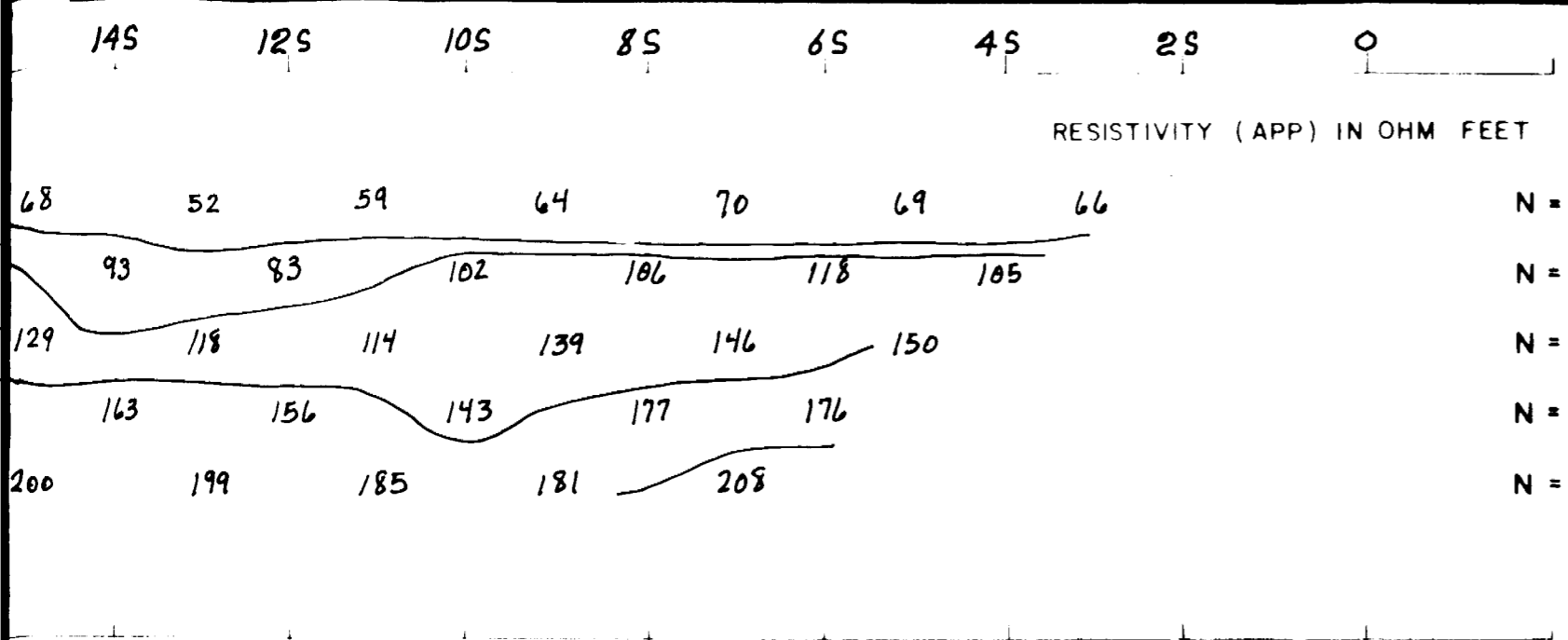
805 785 765 745 725 705 685 665 645 625



805 785 765 745 725 705 685 665 645 625



SWAMP

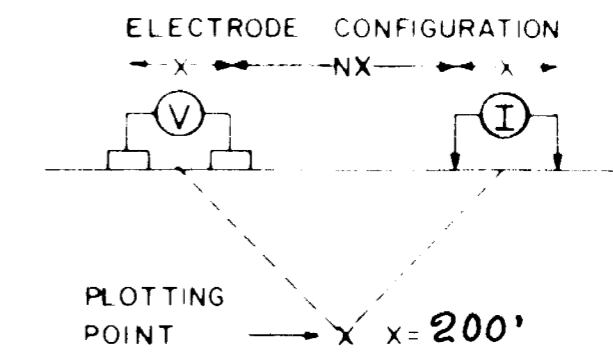


COMPANY: FALCONBRIDGE LTD.

PROPERTY: HOYLE

TIMMINS, ONTARIO

LINE NO - 2 E



SURFACE PROJECTION OF ANOMALOUS ZONES

FREQUENCIES: 0.25 & 4.0 H.Z.

- DEFINITE
- PROBABLE
- POSSIBLE

NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1, 15, 2, 3, 5, 7.5, 10.0

INSTRUMENT: PHOENIX IPV-1 IPT-1

CONTRACTOR: REMY BELANGER ENRG

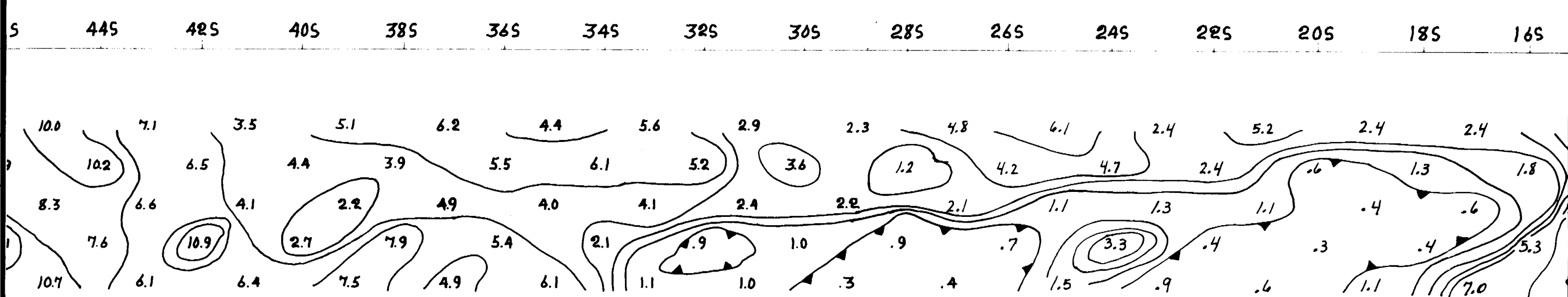
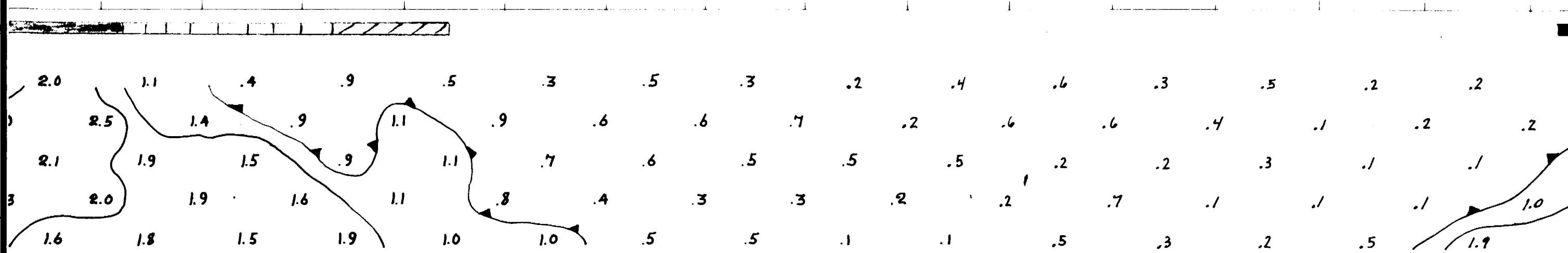
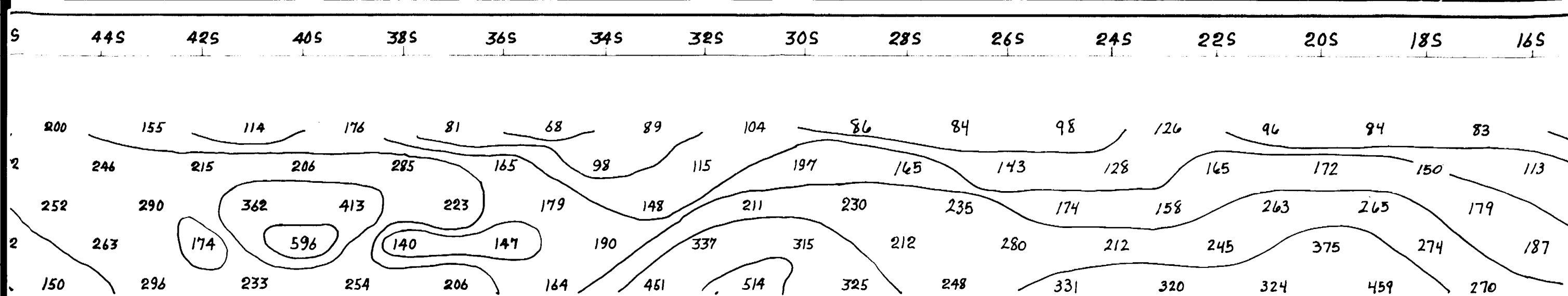
DATE SURVEYED: _____ APPROVED: _____

JULY-10- AUGUST 09-22-84

OPERATOR: ANDRE FAUBERT

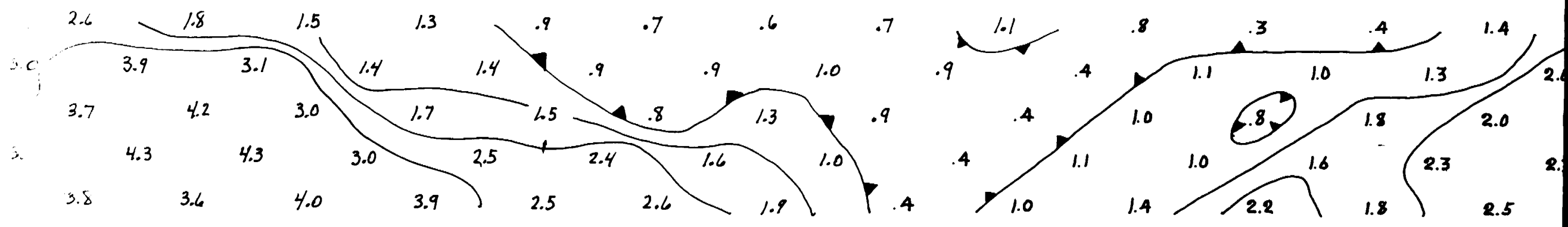
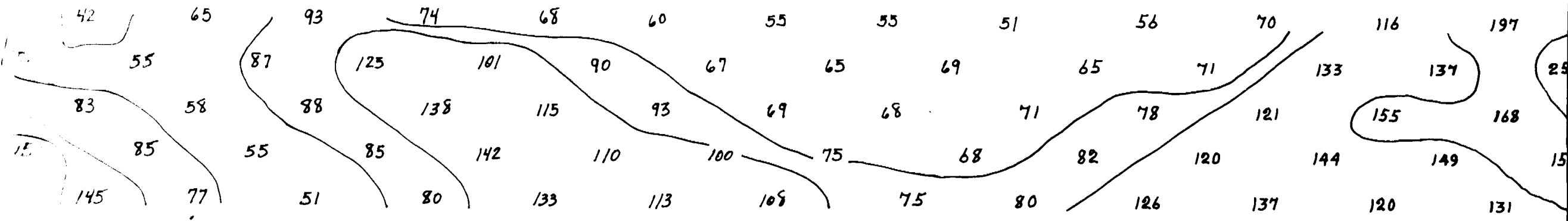
DATE: _____

INDUCED POLARIZATION AND RESISTIVITY SURVEY

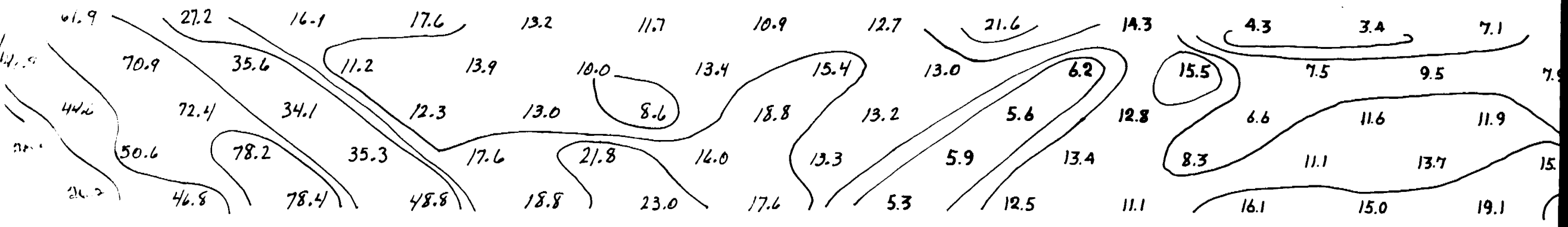


←FLAT→

725 705 685 665 645 625 605 585 565 545 525 505 485 46



725 705 685 665 645 625 605 585 565 545 525 505 485 46



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11.7

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35.6

11.2

13.9

10.0

8.1

2.2

11.1

44.6

72.4

34.1

12.3

13.0

8.1

18.0

27.1

50.6

78.2

35.3

17.6

21.8

23.1

8.8

26.2

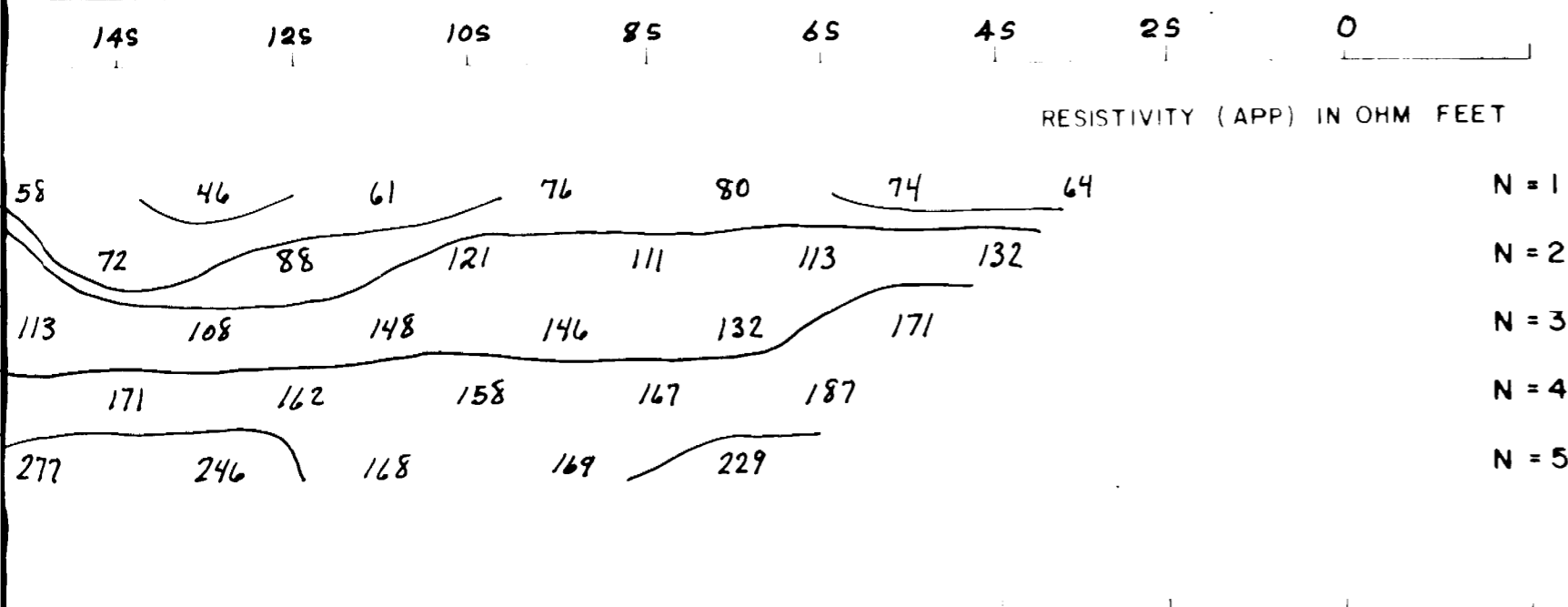
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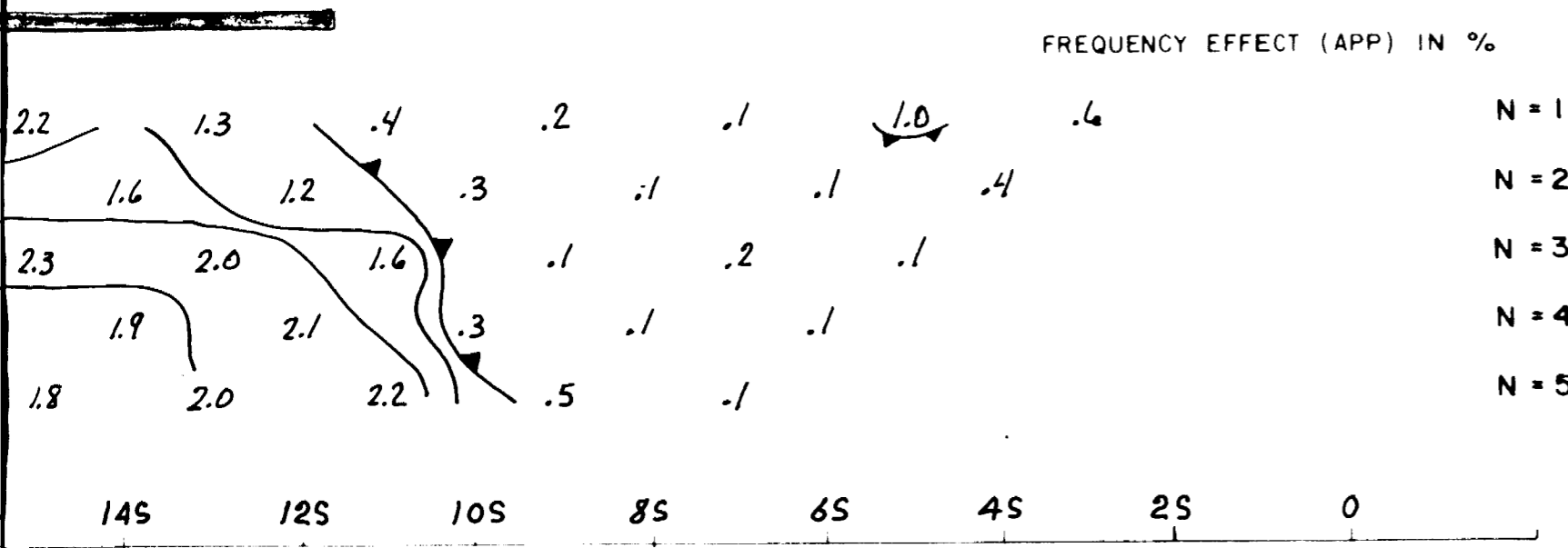
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18.8

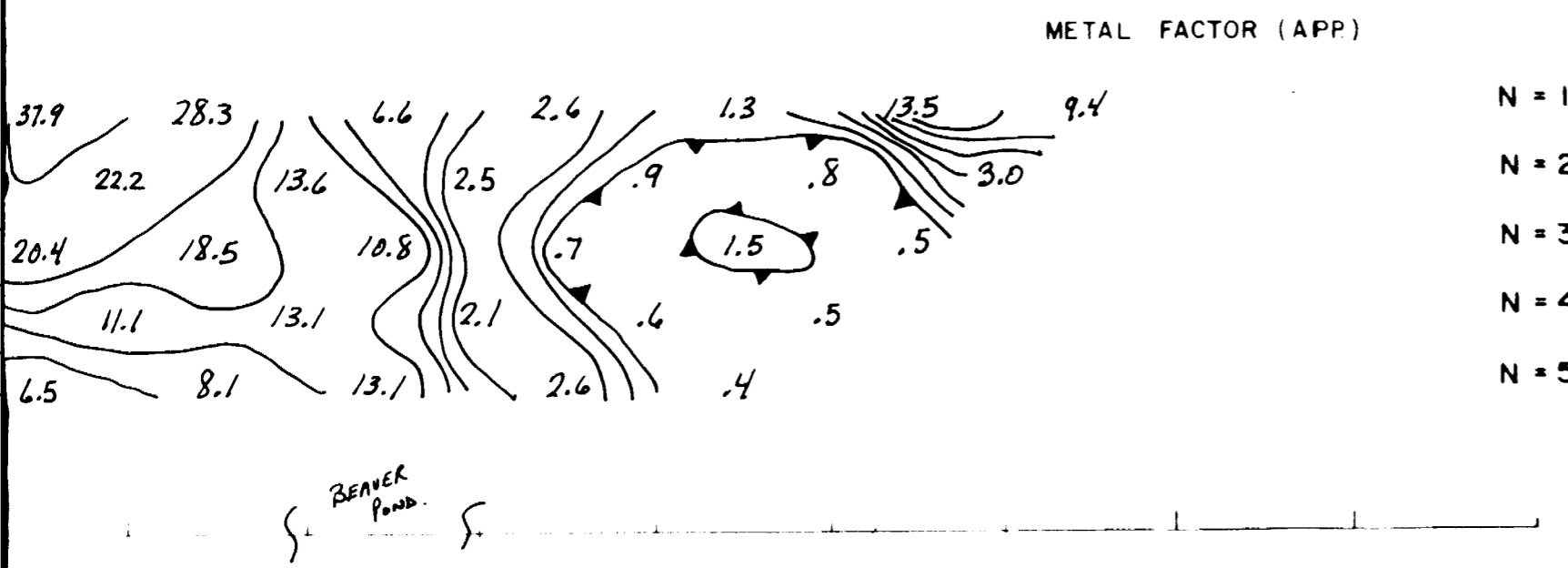
23.1



N = 1
N = 2
N = 3
N = 4
N = 5



N = 1
N = 2
N = 3
N = 4
N = 5



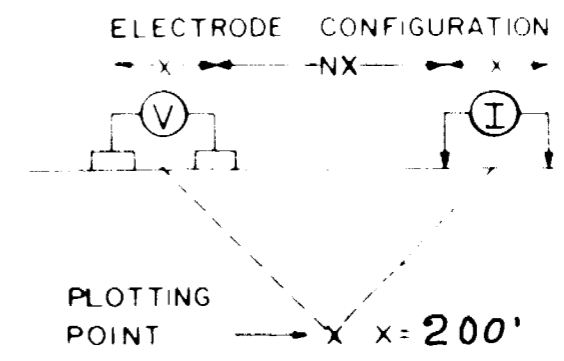
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N = 2
N = 3
N = 4
N = 5

COMPANY: FALCONBRIDGE LTD.

PROPERTY: HOYLE

TIMMINS, ONTARIO

LINE NO - 14 W



SURFACE PROJECTION OF ANOMALOUS ZONES

FREQUENCIES 0.25 & 4.0 HZ

DEFINITE

PROBABLE

POSSIBLE

NOTE CONTOURS AT LOGARITHMIC INTERVALS 1, 1.5, 2, 3, 5, 7.5, 10.0

INSTRUMENT PHOENIX IPV-1
IPT-1

CONTRACTOR REMY BELANGER ENRG.

DATE SURVEYED

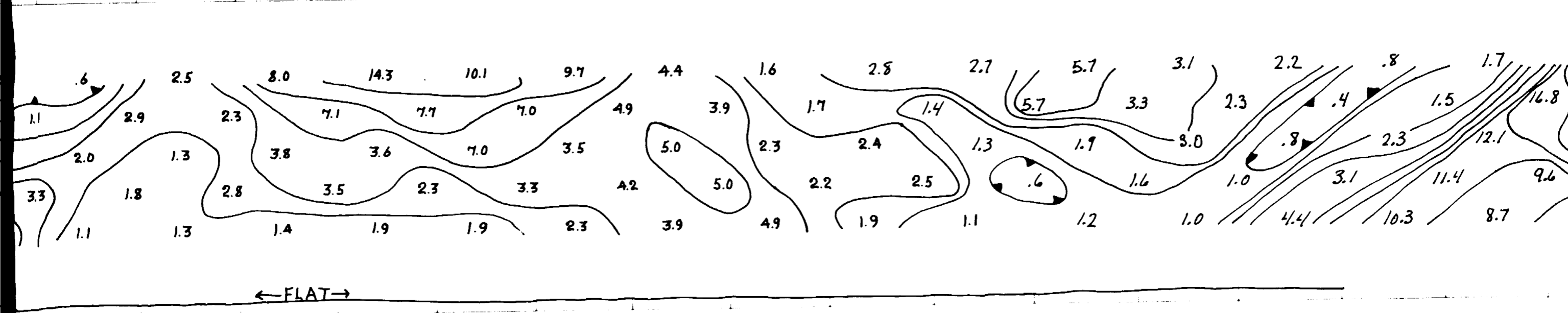
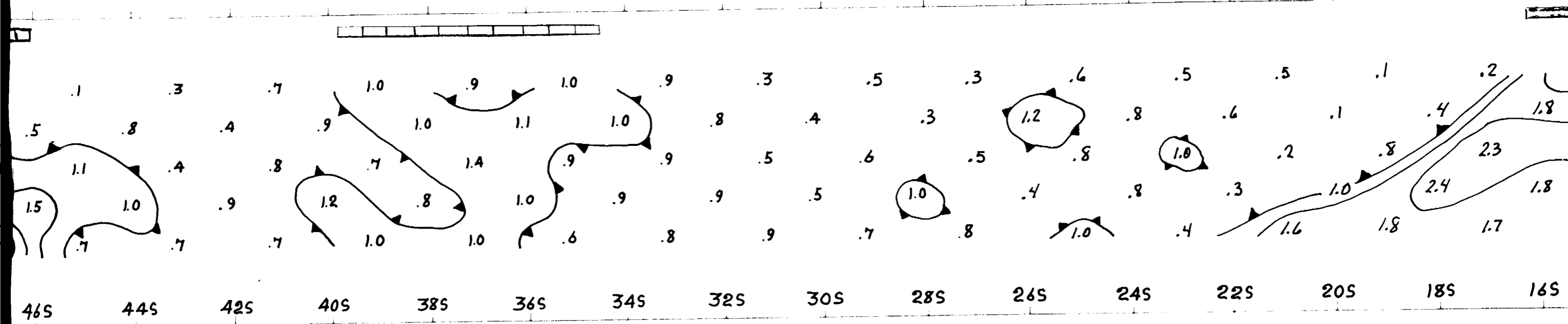
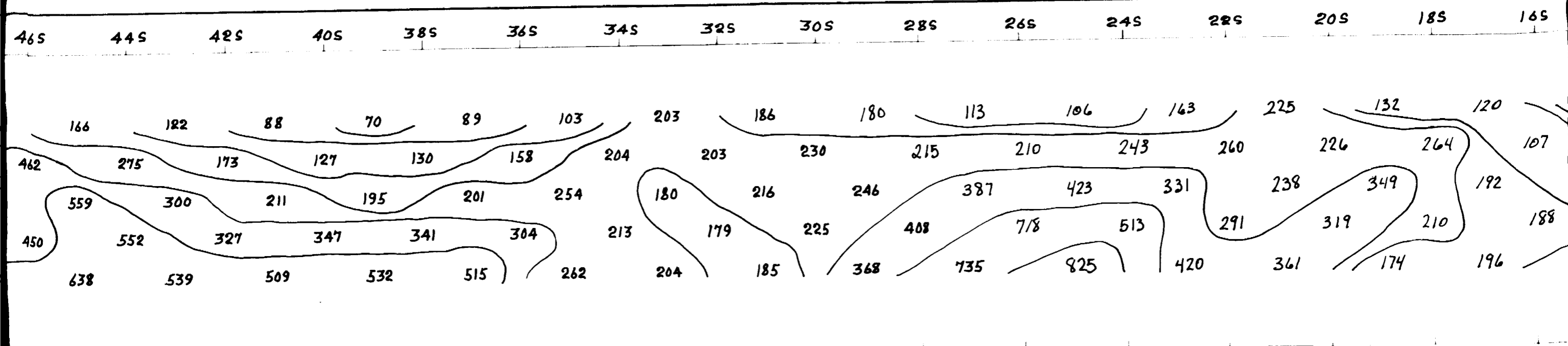
APPROVED

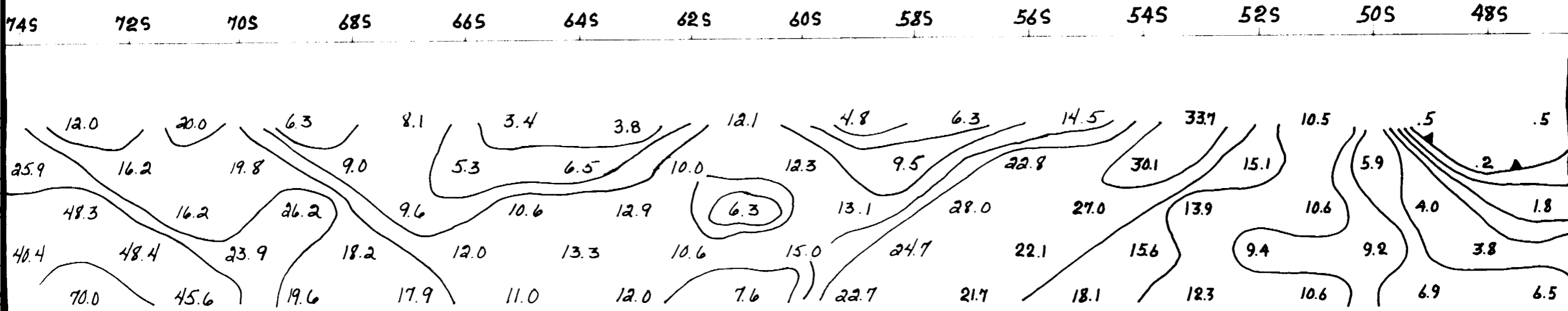
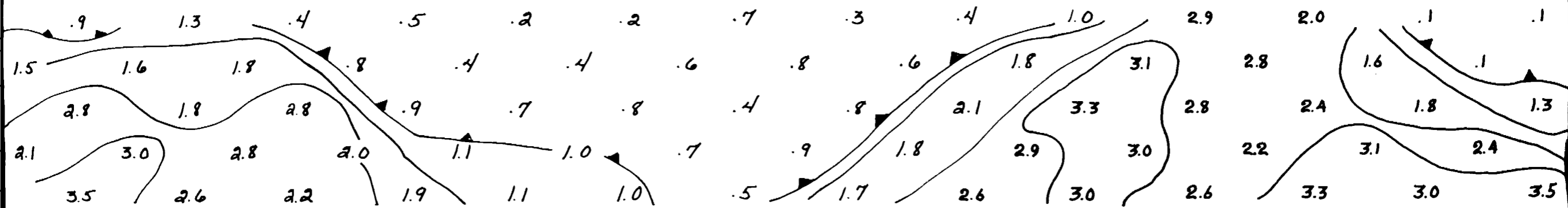
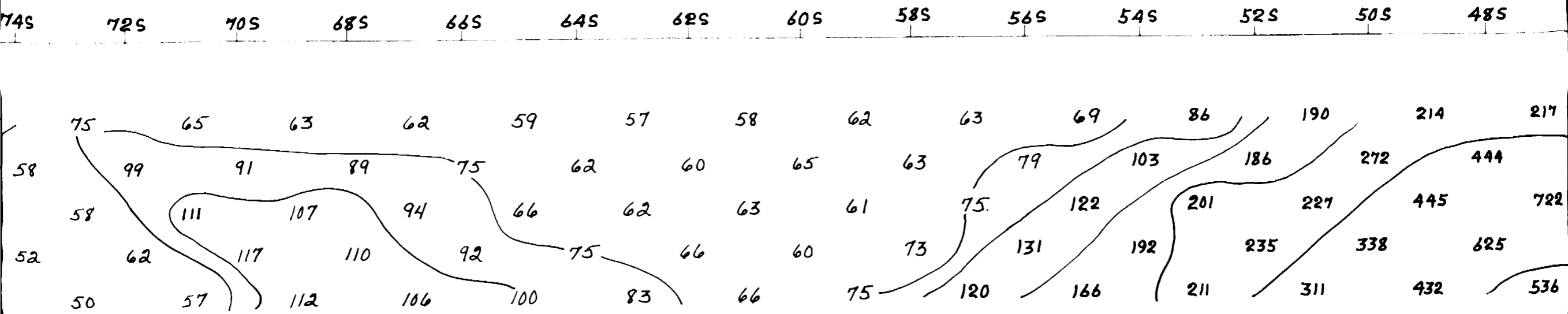
JULY-12, AUG. 08-19-84

OPERATOR ANDRE FAUBERT

DATE

INDUCED POLARIZATION AND RESISTIVITY SURVEY





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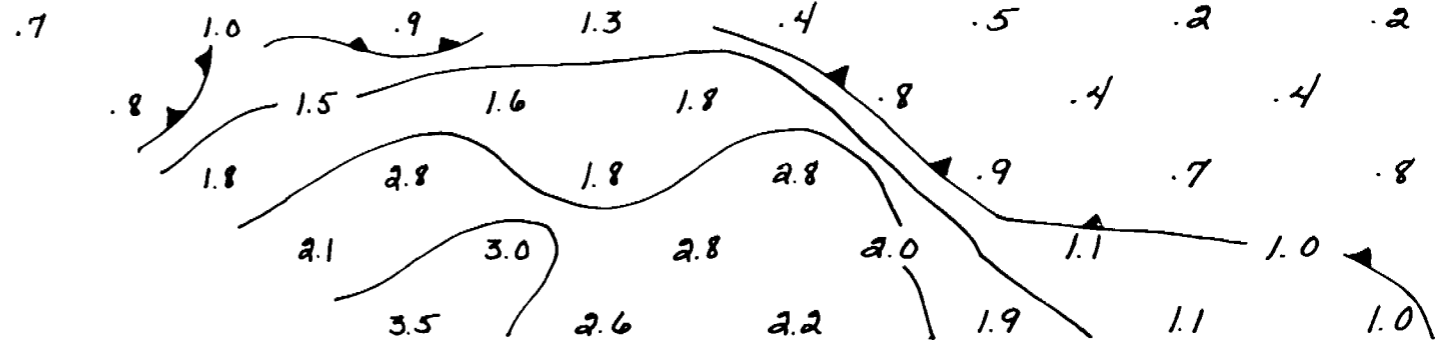
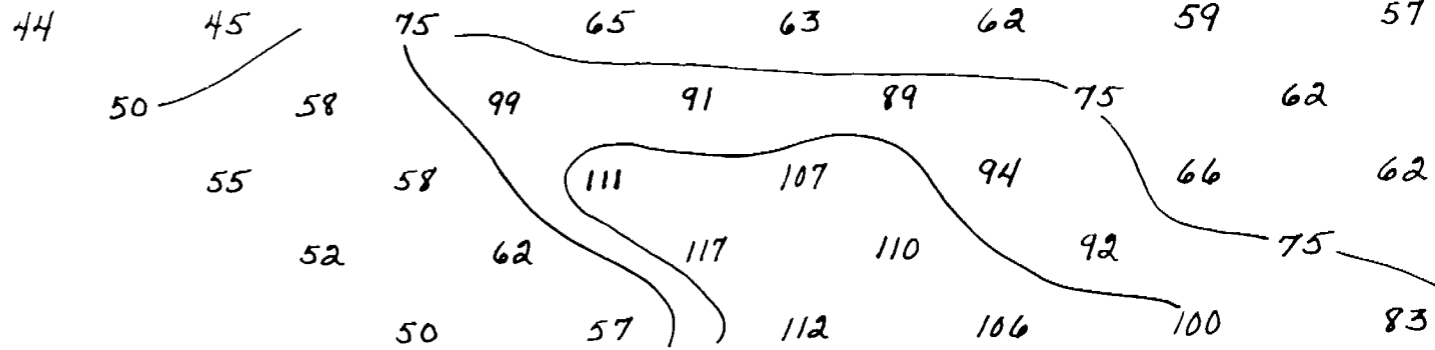
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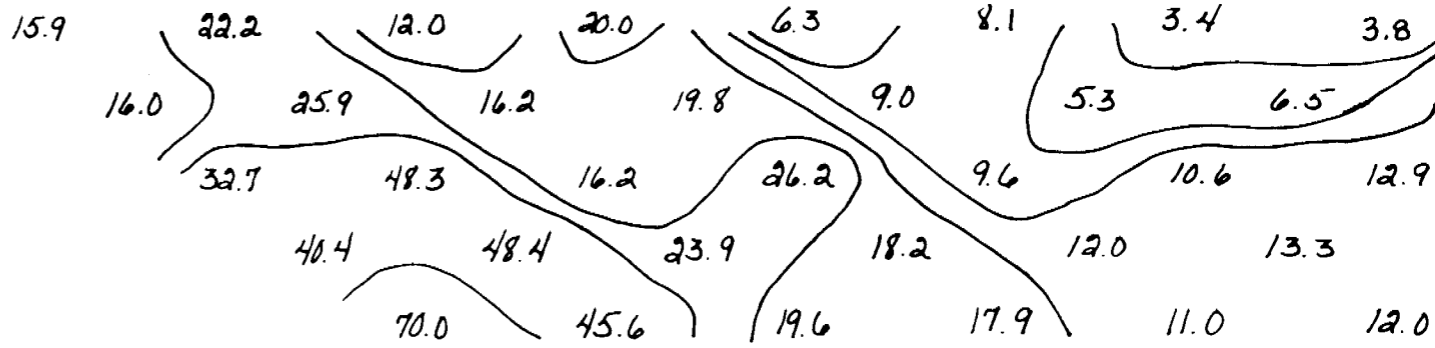
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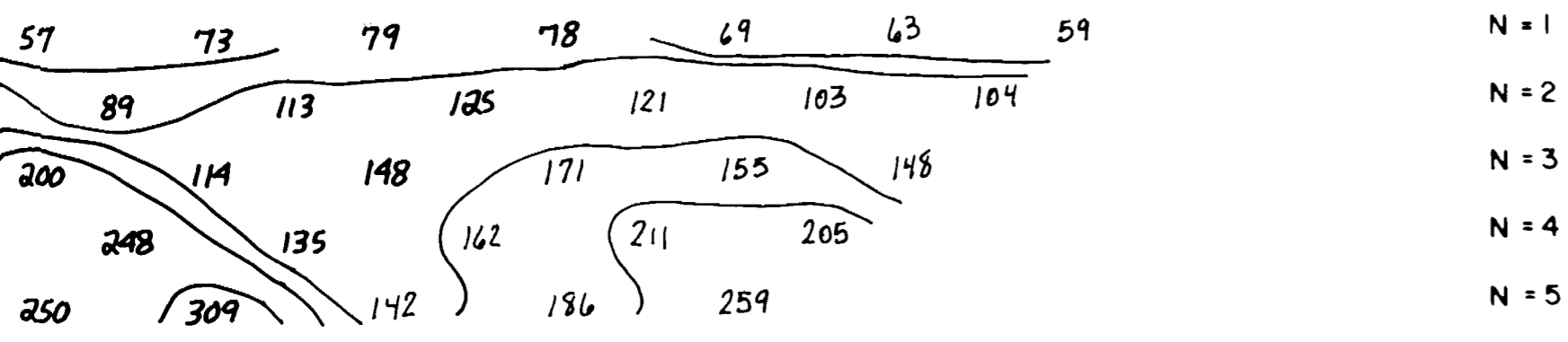
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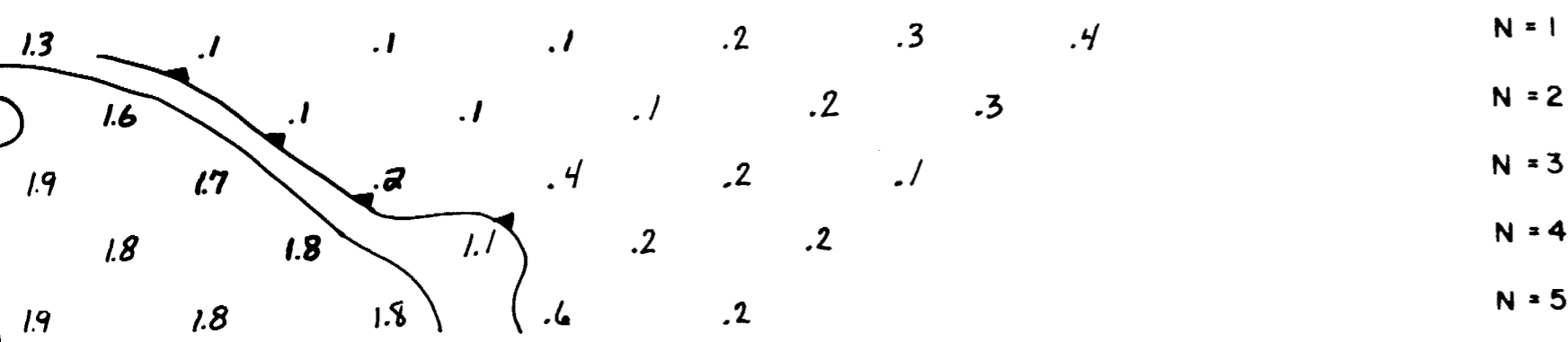


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RESISTIVITY (APP) IN OHM FEET

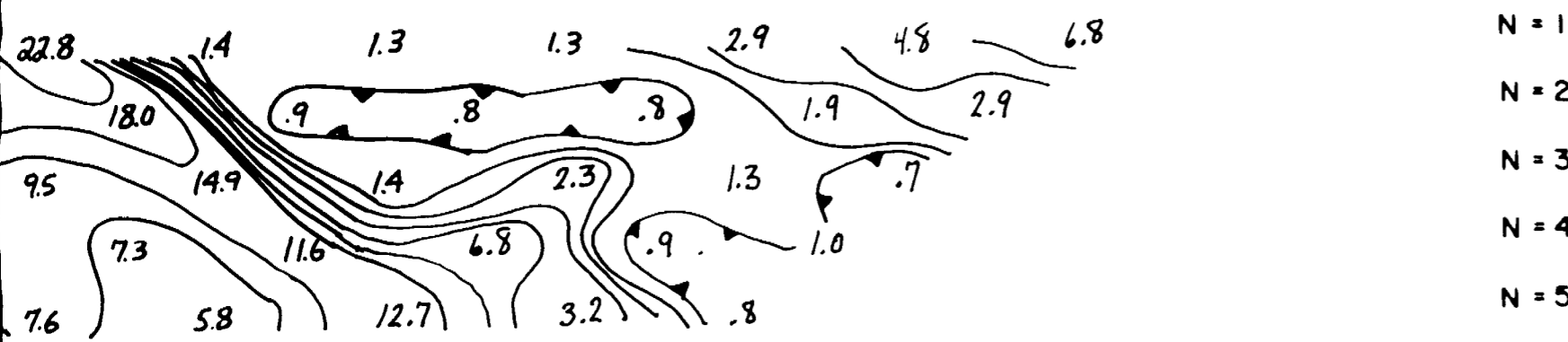


FREQUENCY EFFECT (APP) IN %



145 125 105 85 65 45 25 0

METAL FACTOR (APP)



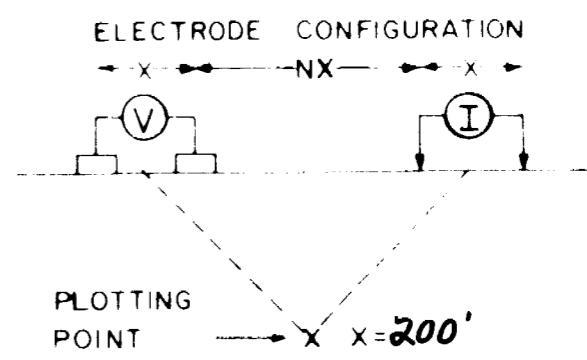
||| CREEK

COMPANY: FALCONBRIDGE LTD.

PROPERTY: HOYLE

TIMMINS, ONTARIO

LINE NO - 14E



SURFACE PROJECTION OF ANOMALOUS ZONES

FREQUENCIES: 0.25 & 4.0 HZ.

DEFINITE **————**
 PROBABLE |||||
 POSSIBLE // // //

NOTE CONTOURS AT LOGARITHMIC INTERVALS 1, 1.5, 2, 3, 5, 7.5, 10.0

INSTRUMENT PHOENIX IPV-1 IPT-1

CONTRACTOR REMY BELANGER ENRG

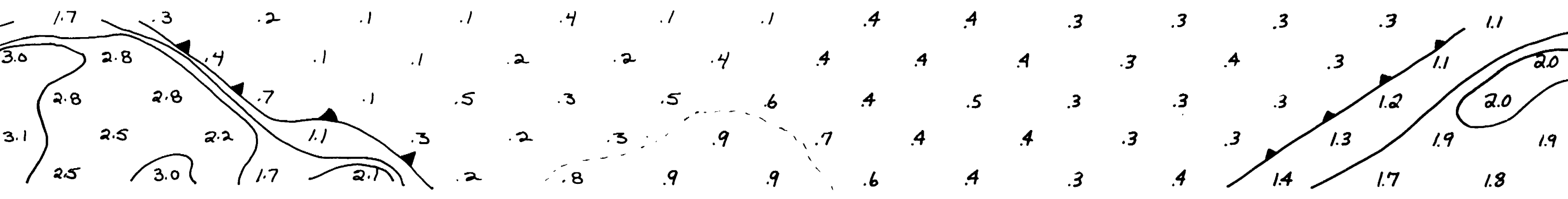
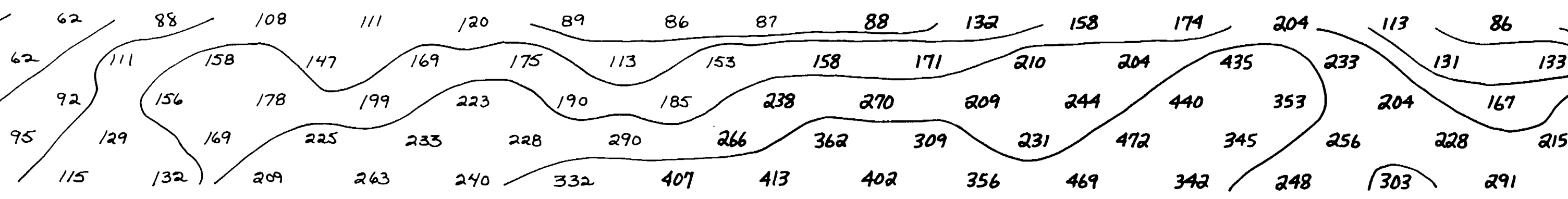
DATE SURVEYED APPROVED

JULY-5-9-AUG. 14-22-84

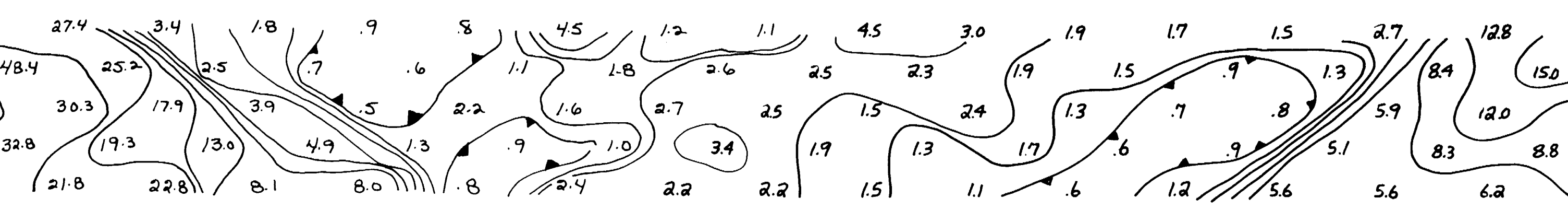
OPERATOR REMY BELANGER DATE _____

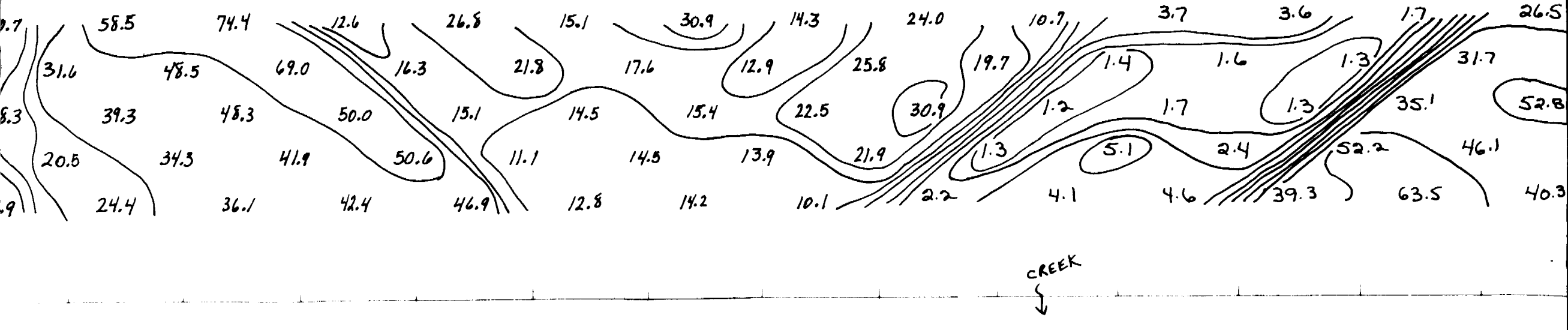
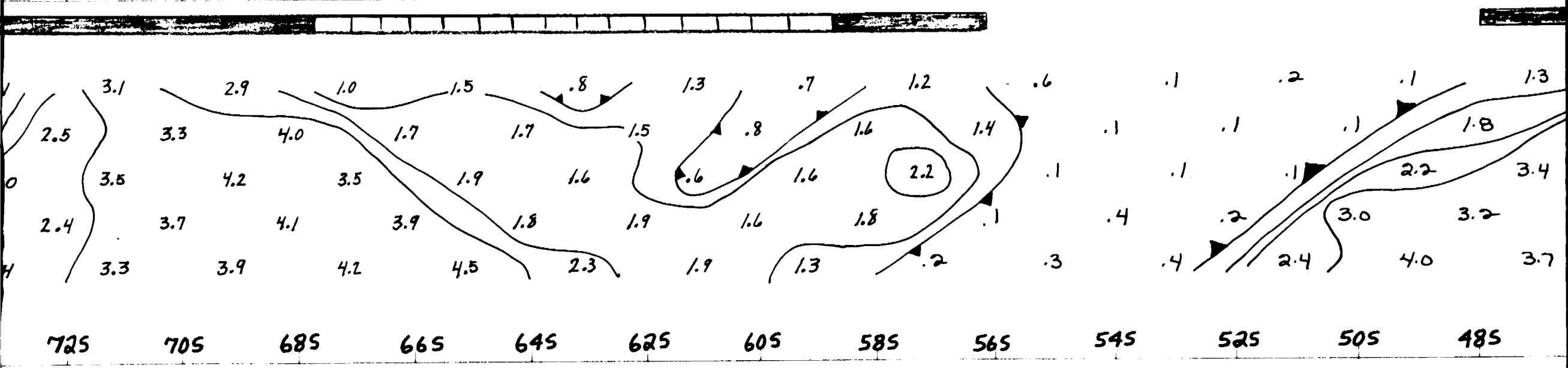
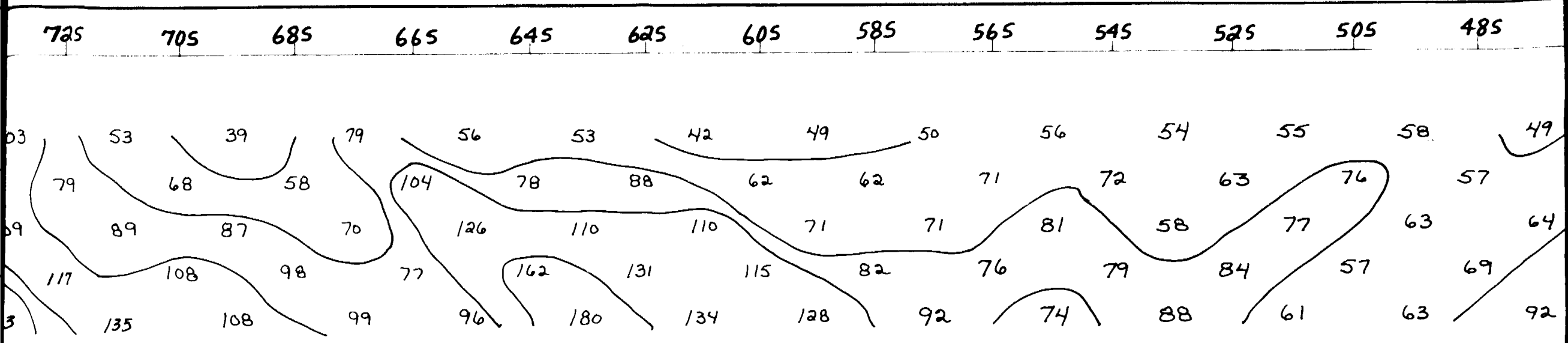
INDUCED POLARIZATION AND RESISTIVITY SURVEY

465 445 425 405 385 365 345 325 305 285 265 245 225 205 185 165



465 445 425 405 385 365 345 325 305 285 265 245 225 205 185 165





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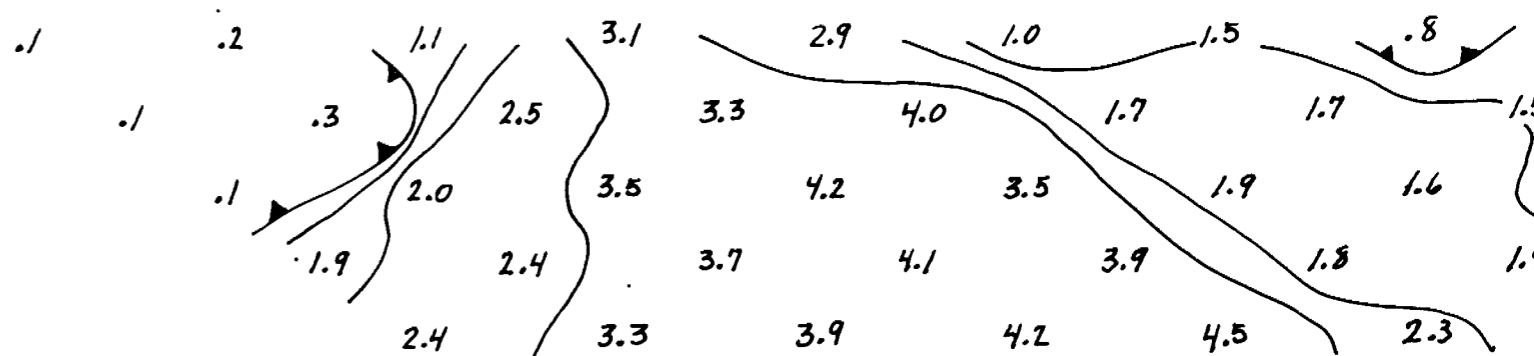
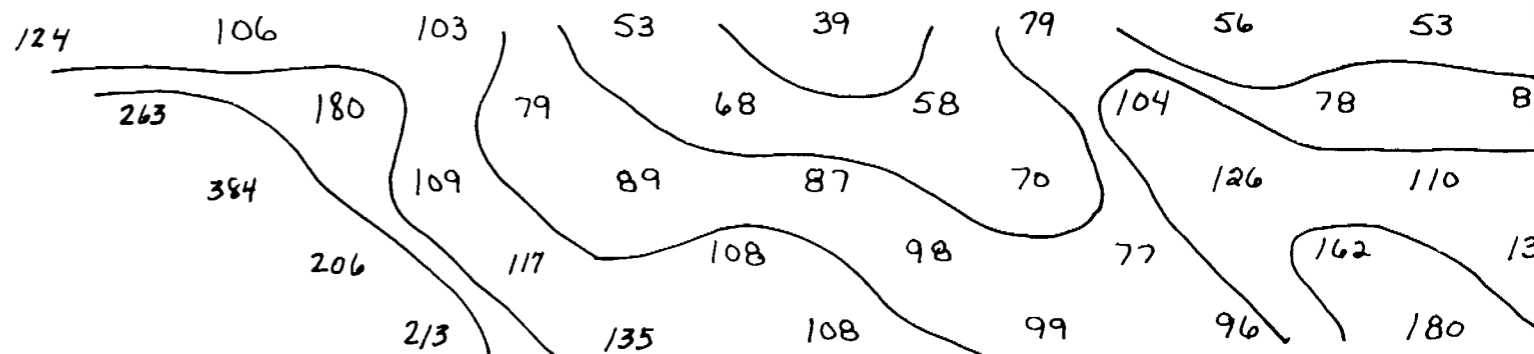
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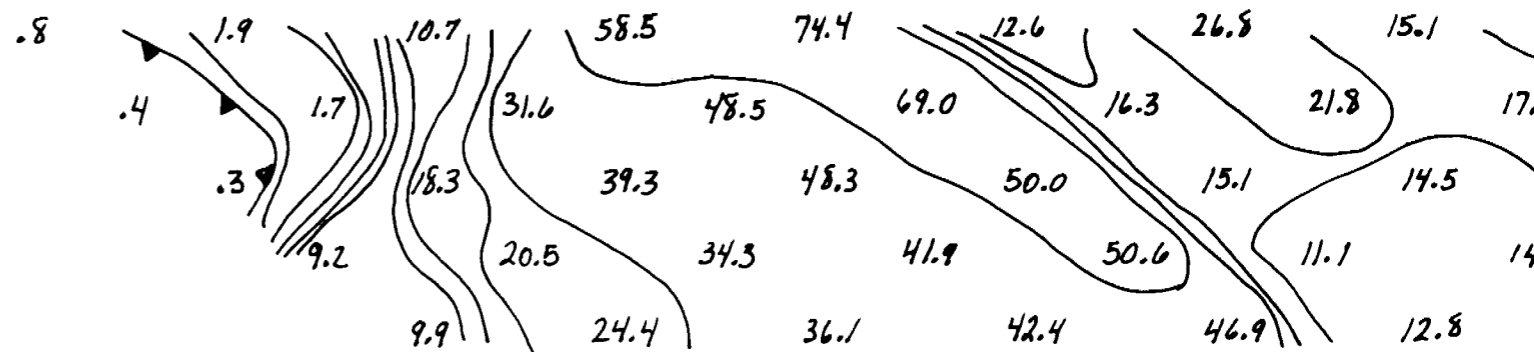
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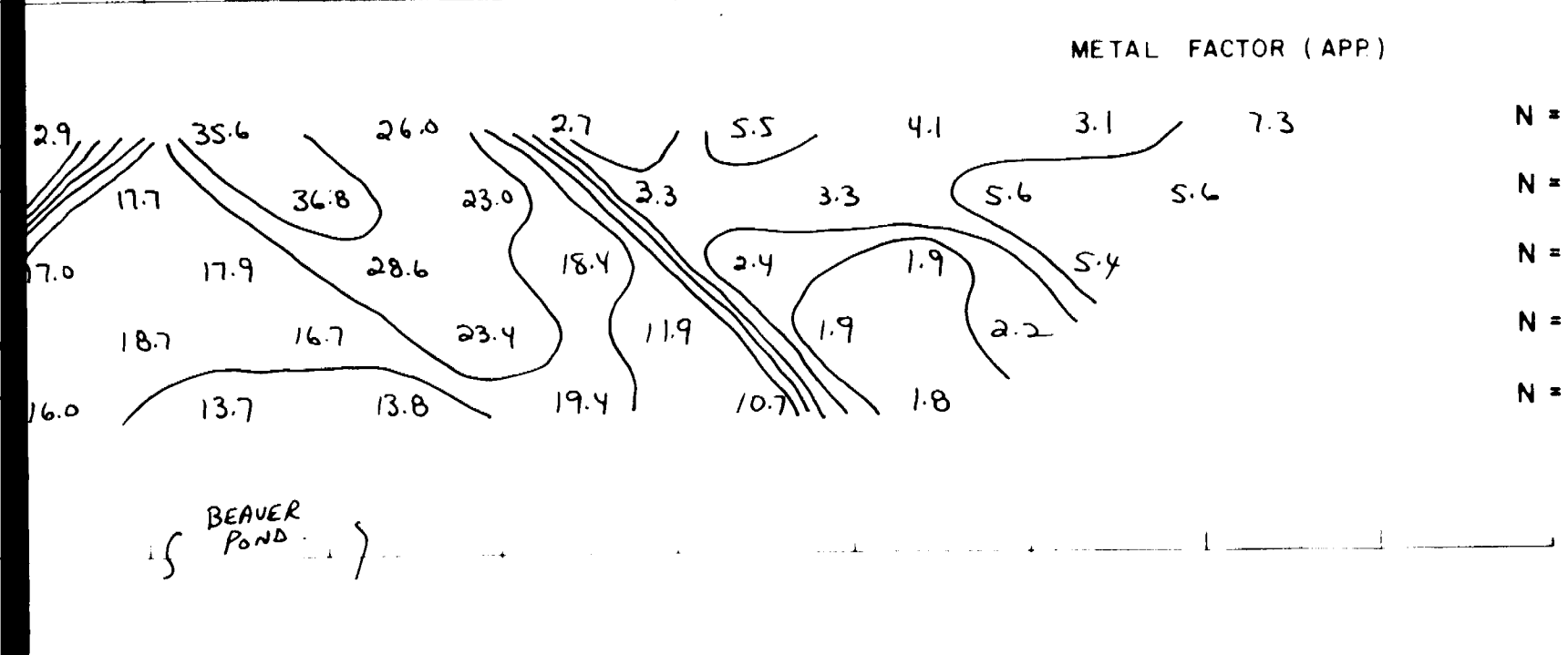
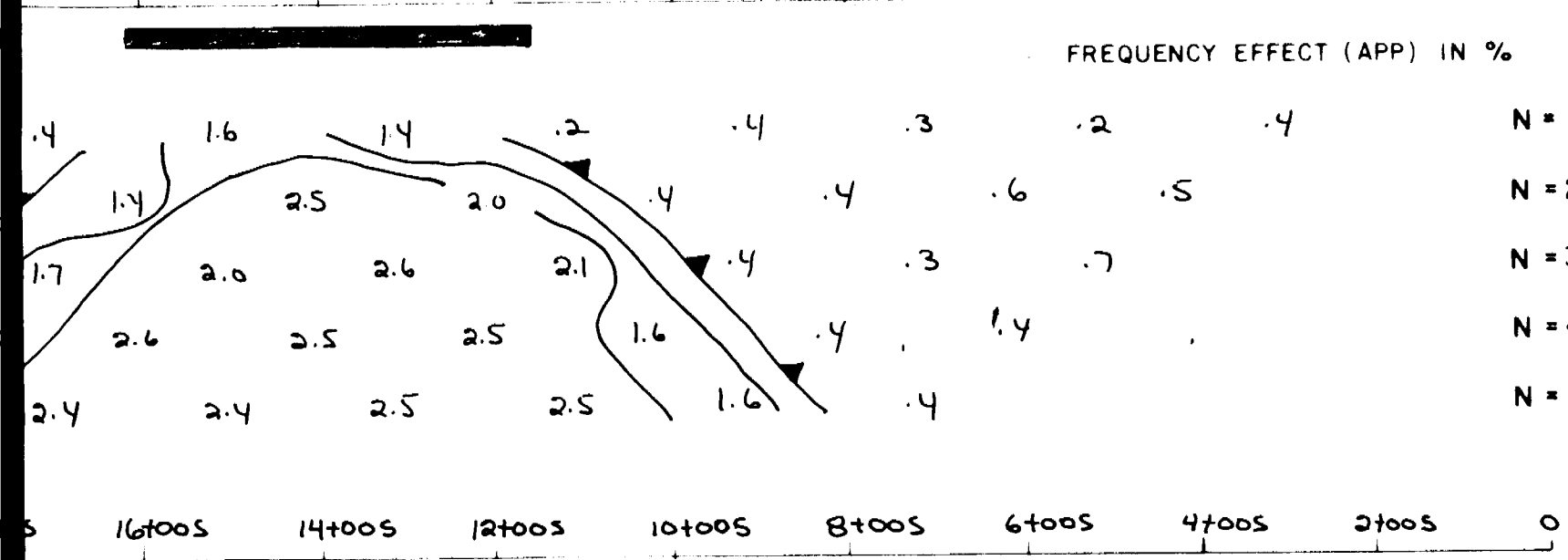
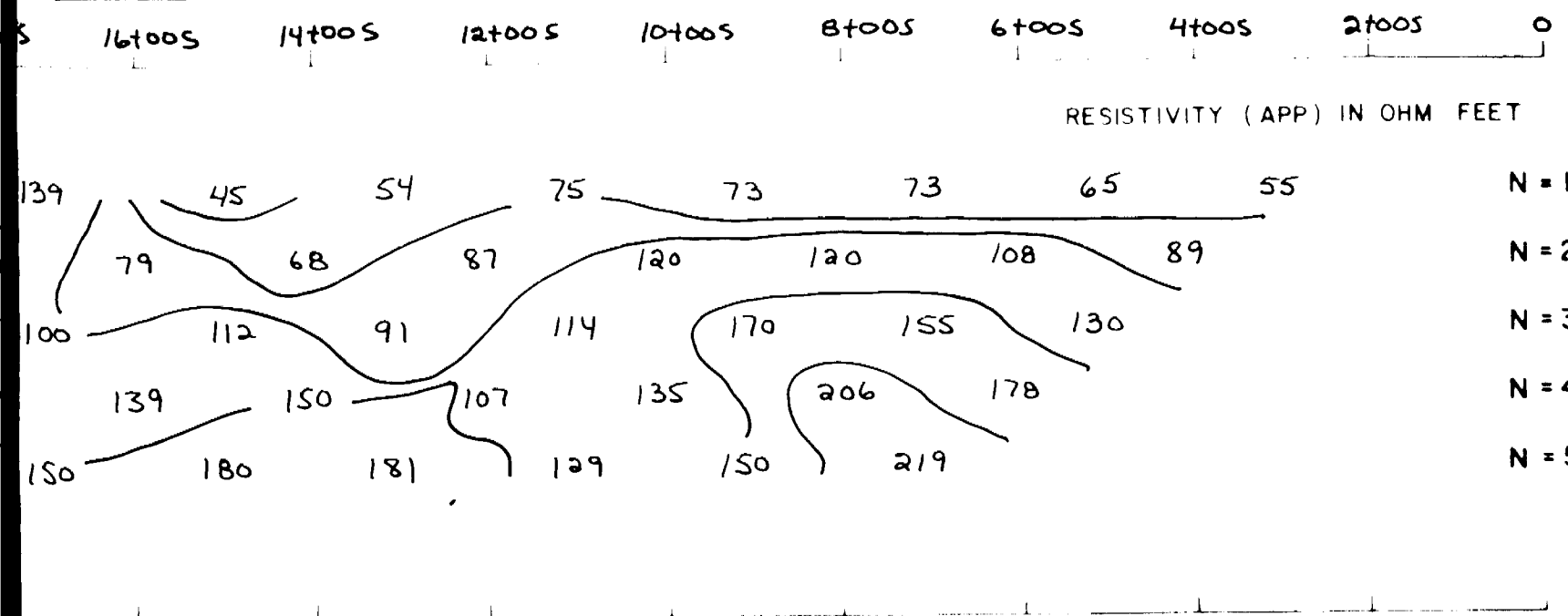
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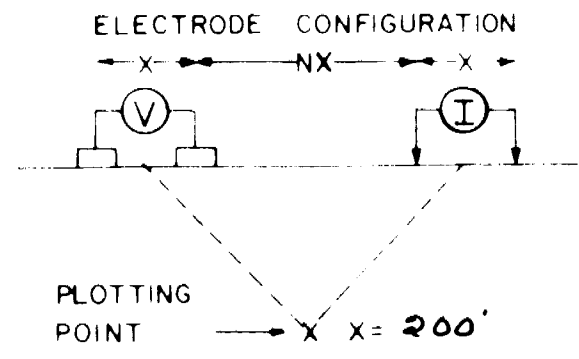


COMPANY: FALCONBRIDGE LTD.

PROPERTY: HOYLE

TIMMINS - ONTARIO

LINE NO - 10700W



SURFACE PROJECTION OF ANOMALOUS ZONES

FREQUENCIES: .25 & 4.0 H.Z.

DEFINITE **————**
 PROBABLE **|||||**
 POSSIBLE **////**

NOTE CONTOURS AT LOGARITHMIC INTERVALS 1, 1.5, 2, 3, 5, 7.5, 10.0

INSTRUMENT PHOENIX IPV-1 IPT-1

CONTRACTOR REMY BELANGER ENRG

DATE SURVEYED

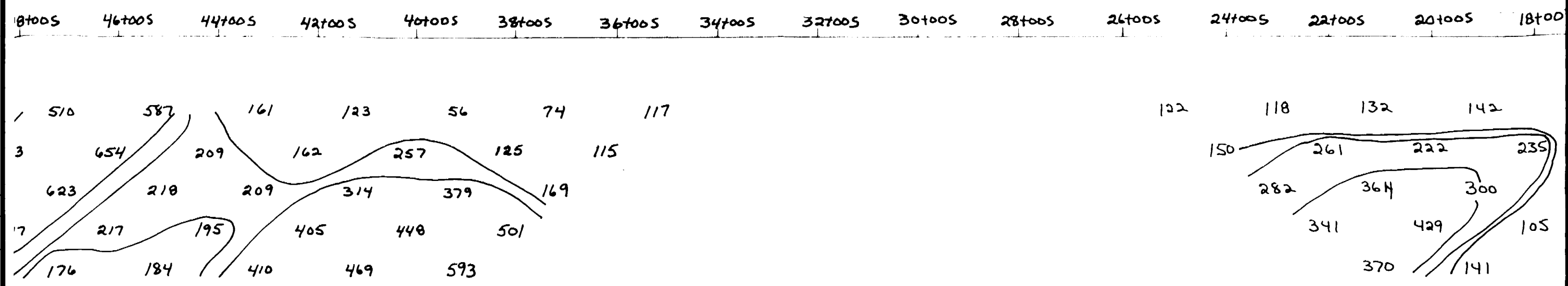
APPROVED

JULY 12 - AUG. 07 - 84

OPERATOR REMY BELANGER.

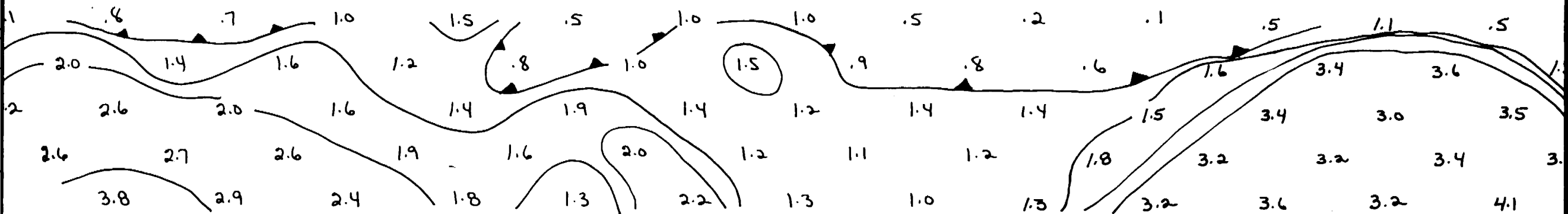
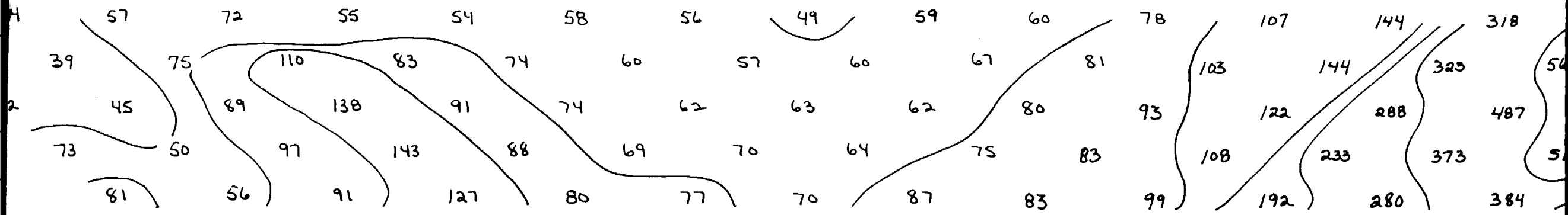
DATE _____

INDUCED POLARIZATION AND RESISTIVITY SURVEY

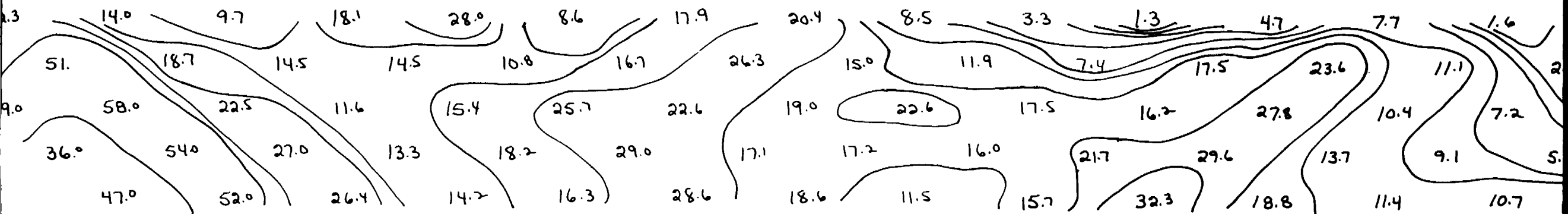


S. Beaver Pond

7400s 7200s 7000s 6800s 6600s 6400s 6200s 6000s 5800s 5600s 5400s 5200s 5000s

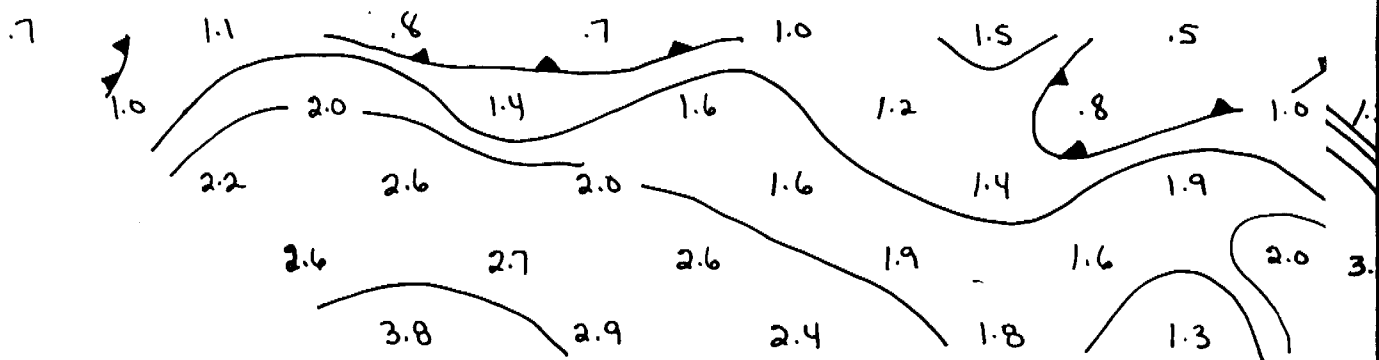
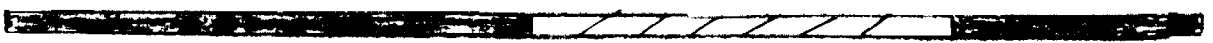
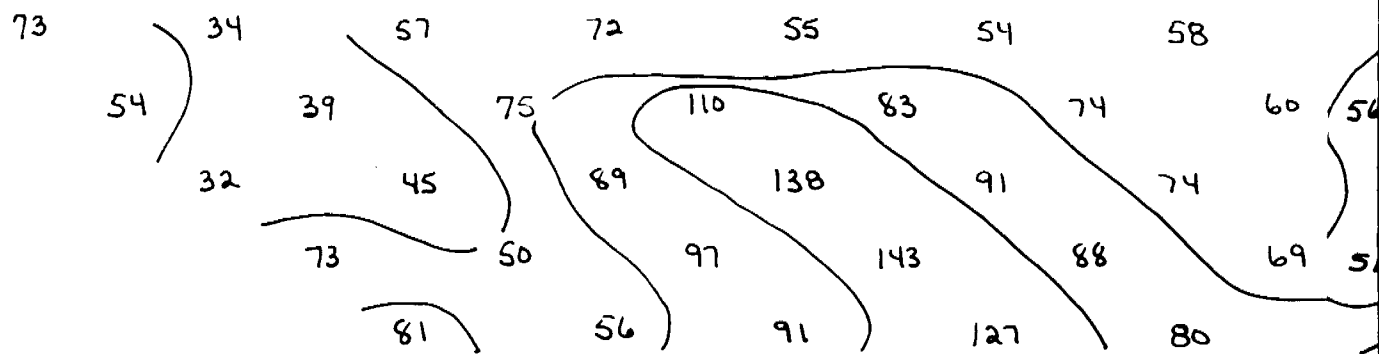


7400s 7200s 7000s 6800s 6600s 6400s 6200s 6000s 5800s 5600s 5400s 5200s 5000s

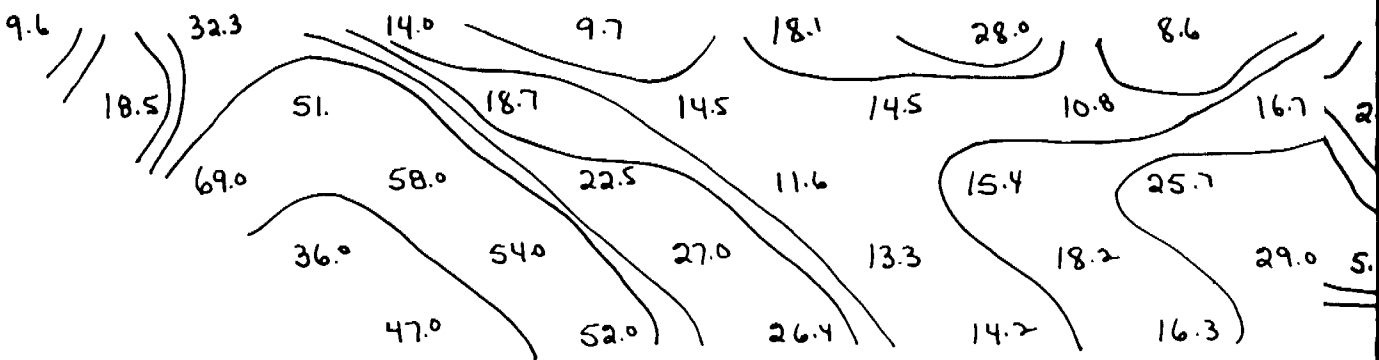


SWAMP

80+00S 78+00S 76+00S 74+00S 72+00S 70+00S 68+00S 66+00S 64+00S

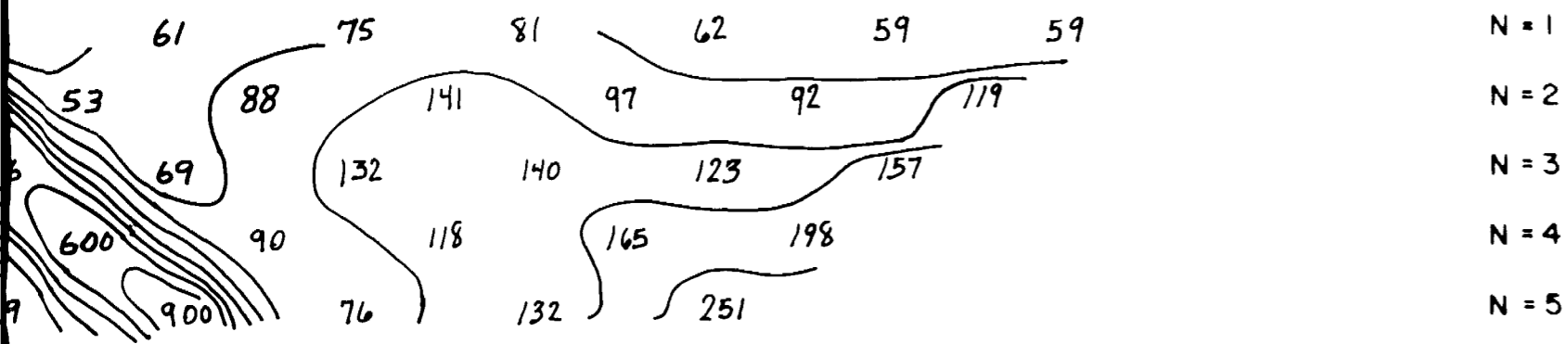


80+00S 78+00S 76+00S 74+00S 72+00S 70+00S 68+00S 66+00S 64+00S



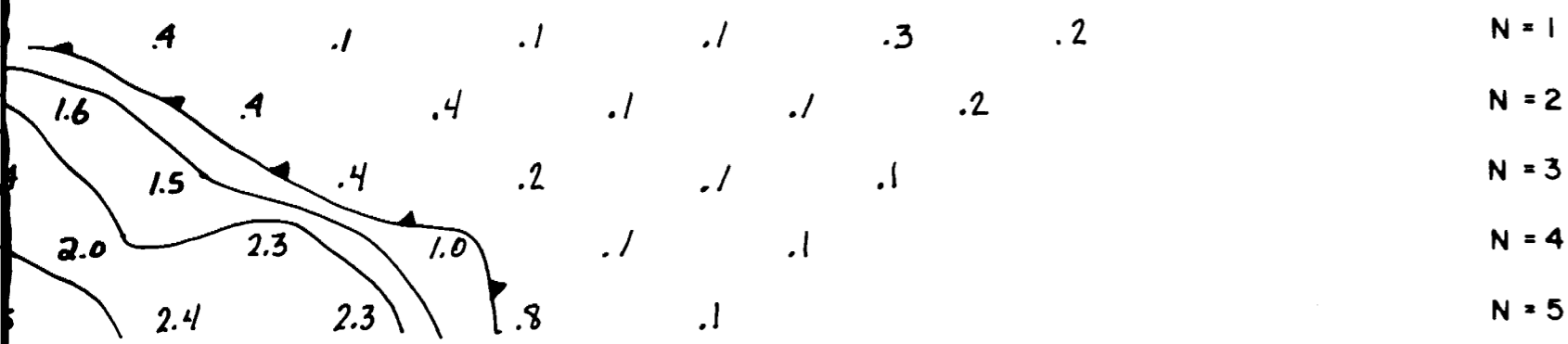
145 125 105 85 65 45 25 0

RESISTIVITY (APP) IN OHM FEET



N = 1
N = 2
N = 3
N = 4
N = 5

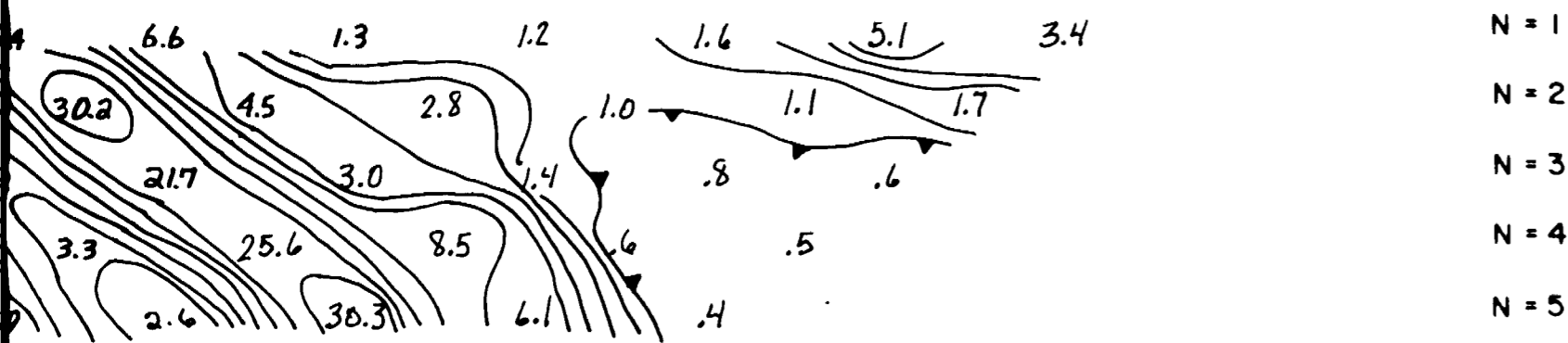
FREQUENCY EFFECT (APP) IN %



N = 1
N = 2
N = 3
N = 4
N = 5

145 125 105 85 65 45 25 0

METAL FACTOR (APP)



N = 1
N = 2
N = 3
N = 4
N = 5

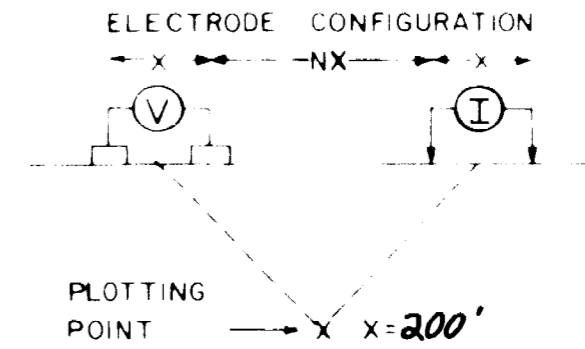
CREEK

COMPANY: FALCONBRIDGE LTD.

PROPERTY: HOYLE

TIMMINS, ONTARIO

LINE NO - 10 E



SURFACE PROJECTION OF ANOMALOUS ZONES

FREQUENCIES: 0.25 & 4.0 HZ.

DEFINITE **————**
PROBABLE **|||||**
POSSIBLE **////**

NOTE CONTOURS AT LOGARITHMIC INTERVALS 1, 1.5, 2, 3, 5, 7.5, 10.0

INSTRUMENT PHOENIX IPV 1 IPT-1
CONTRACTOR REMY BELANGER ENRG

DATE SURVEYED

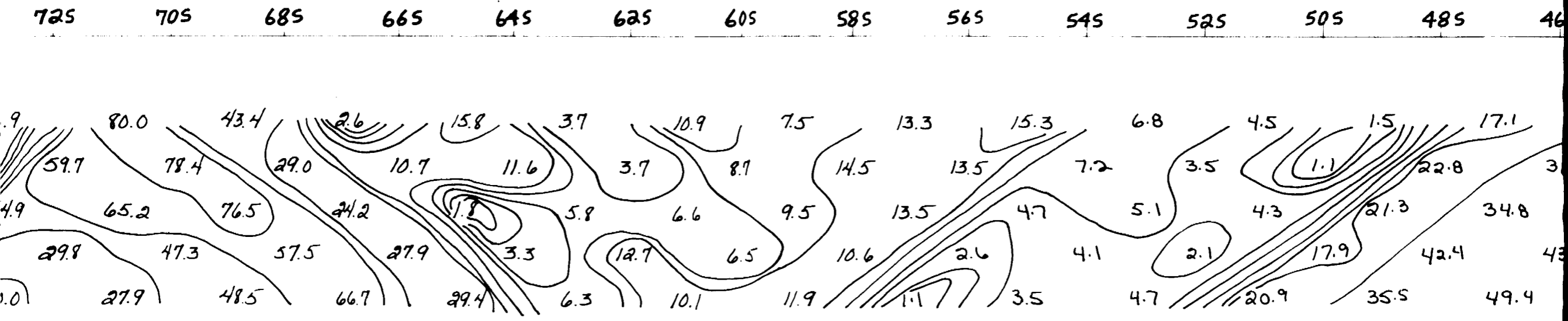
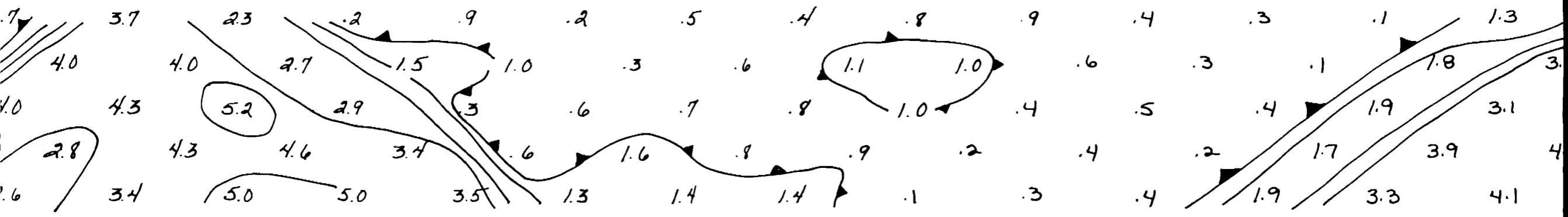
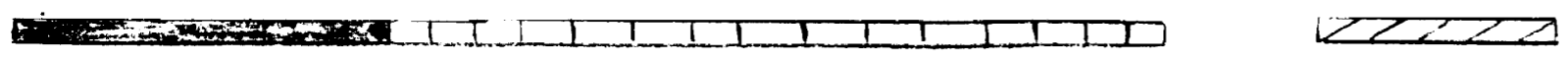
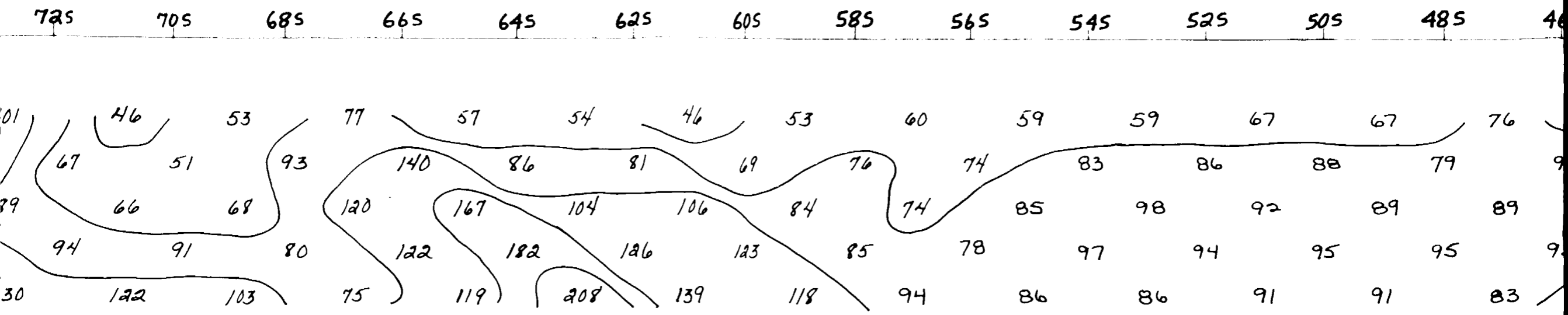
APPROVED

JULY-5-9 - AUG. 11-22-84

OPERATOR REMY BELANGER.

DATE _____

INDUCED POLARIZATION AND RESISTIVITY SURVEY



CREEK

805

785

765

745

725

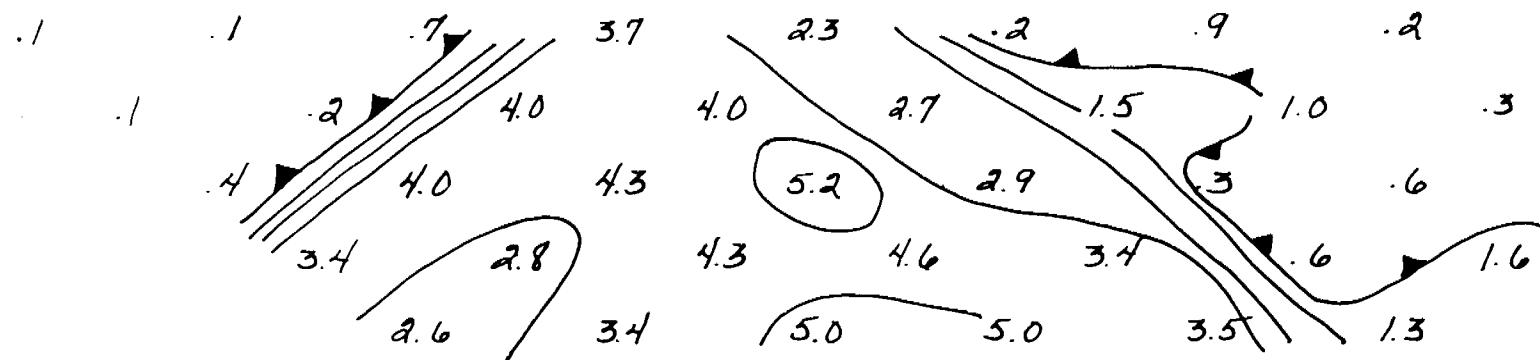
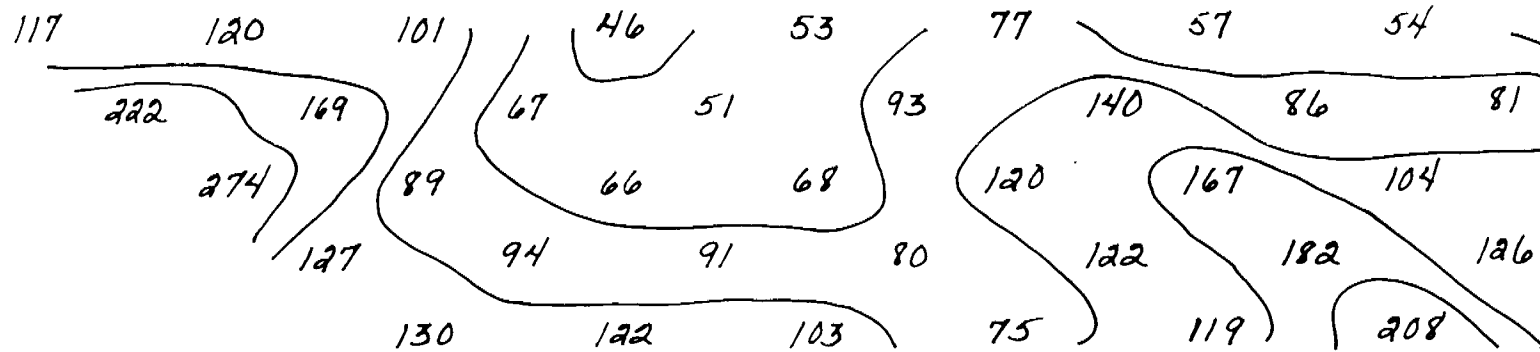
705

685

665

645

625



805

785

765

745

725

705

685

665

645

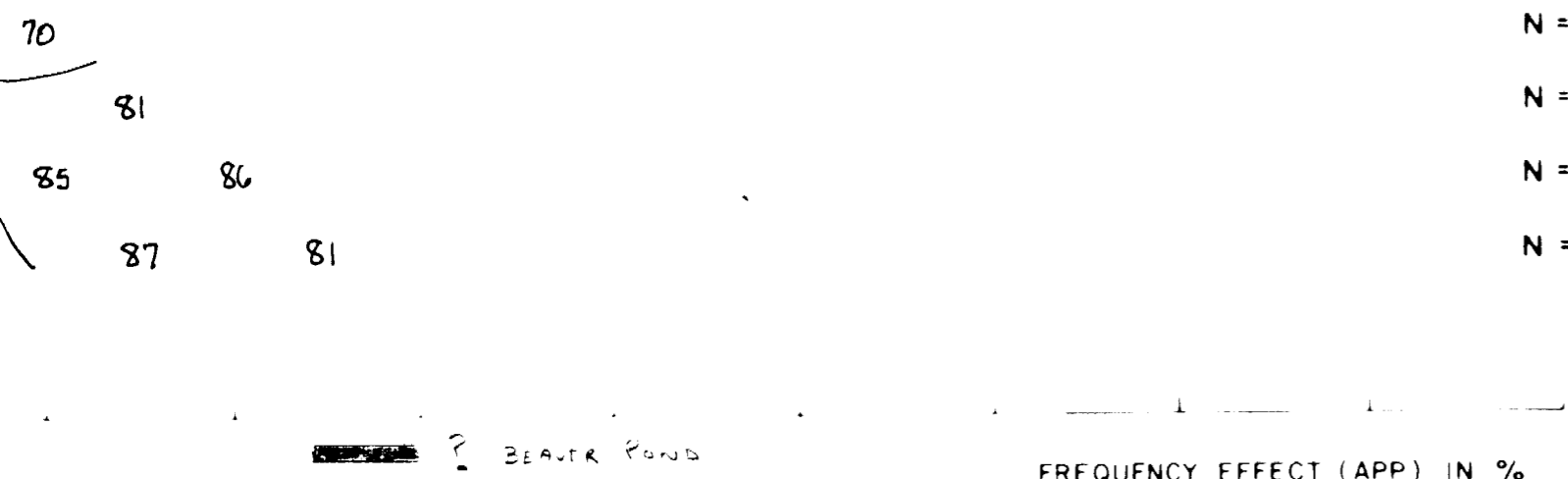
625



545 525 505 485 465 445 425 405

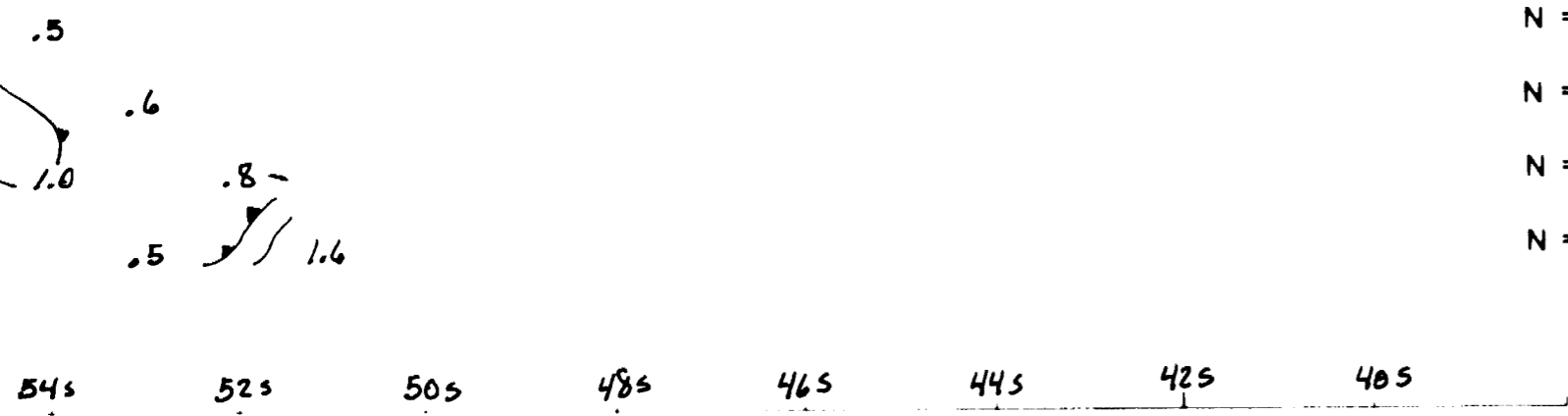
RESISTIVITY (APP) IN OHM FEET

N = 1
N = 2
N = 3
N = 4
N = 5



FREQUENCY EFFECT (APP) IN %

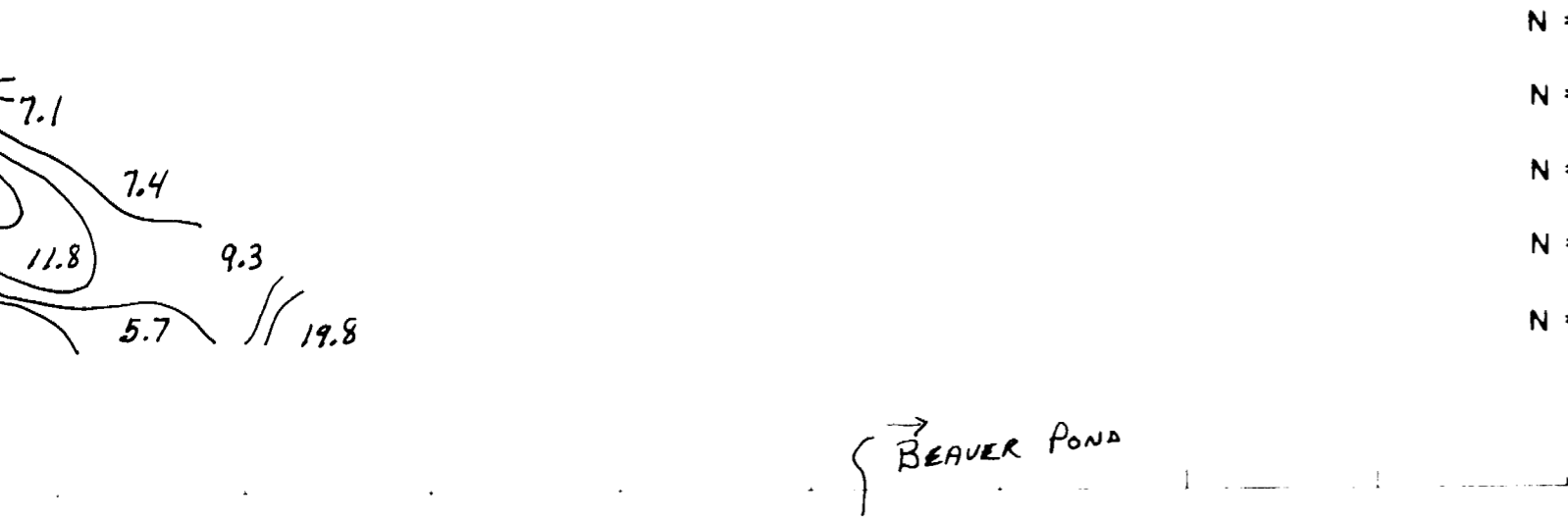
N = 1
N = 2
N = 3
N = 4
N = 5



545 525 505 485 465 445 425 405

METAL FACTOR (APP)

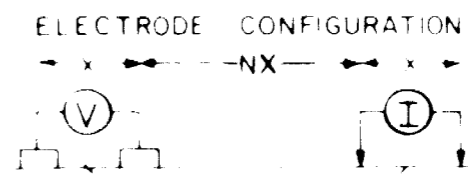
N = 1
N = 2
N = 3
N = 4
N = 5



COMPANY FALCONBRIDGE LTD.

PROPERTY HOYLE
TIMMINS - ONTARIO

LINE NO - 26E



PLOTTING POINT $x = 200'$

SURFACE PROJECTION OF ANOMALOUS ZONES

FREQUENCIES .25 & 4.0 HZ.

DEFINITE **————**
PROBABLE **|||||**
POSSIBLE **////**

NOTE CONTOURS AT LOGARITHMIC INTERVALS 1, 1.5, 2, 3, 5, 7.5, 10.0

INSTRUMENT PHOENIX IPV 1
CONTRACTOR Remy Belanger ENRG

DATE SURVEYED

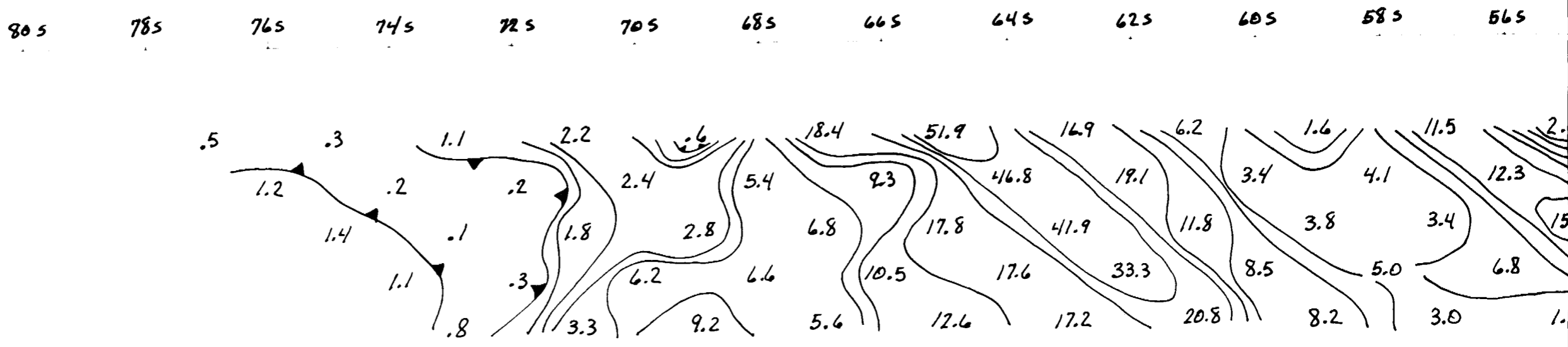
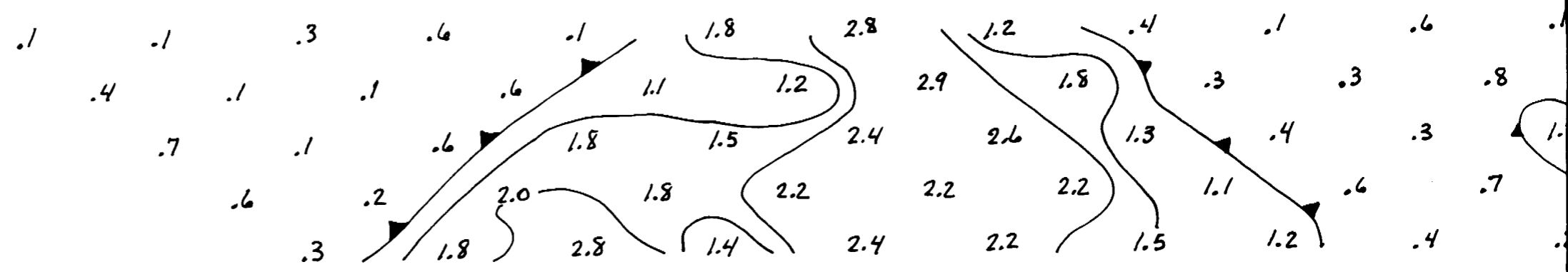
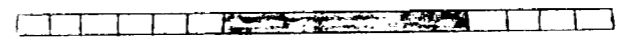
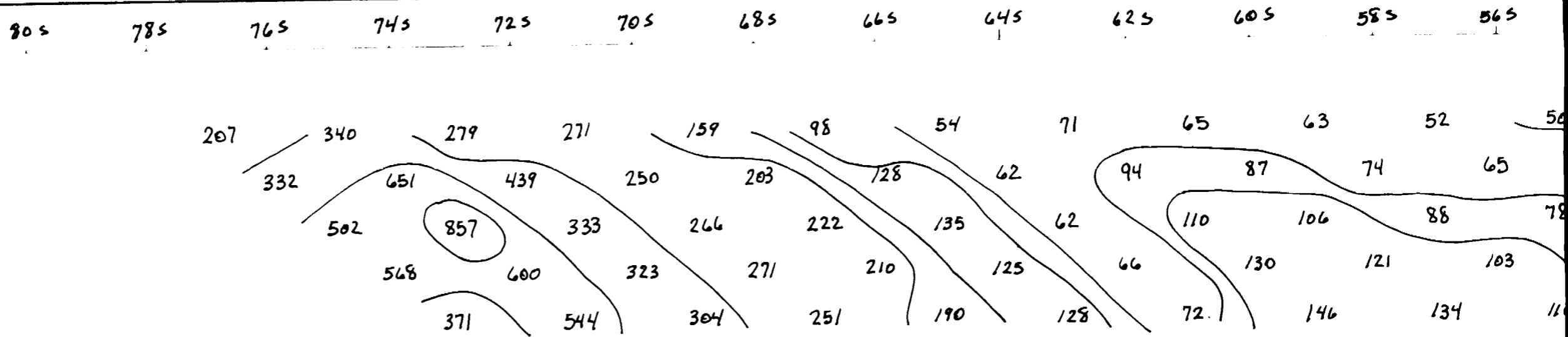
APPROVED

AUG. 14 - 1984

OPERATOR R. BELANGER.

DATE _____

INDUCED POLARIZATION AND RESISTIVITY SURVEY



FLAT.

FLAT.

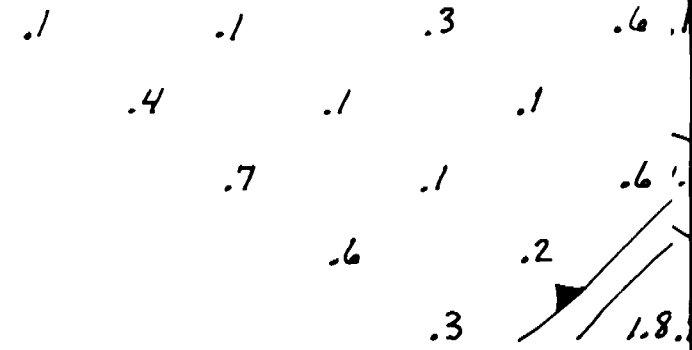
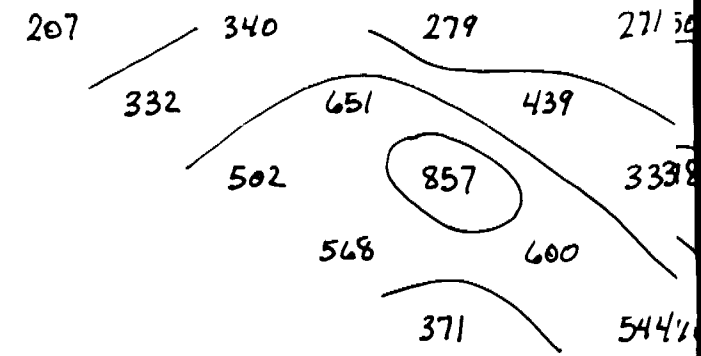
805

785

765

745

725



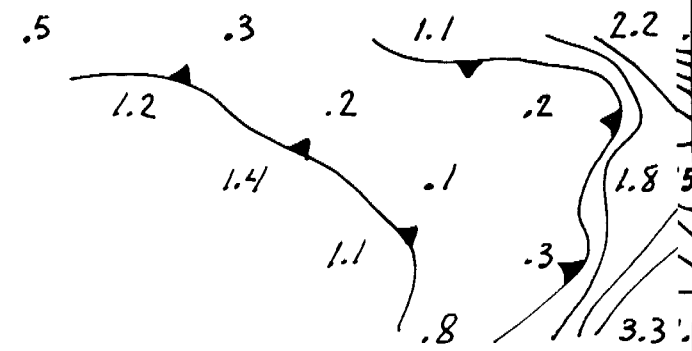
805

785

765

745

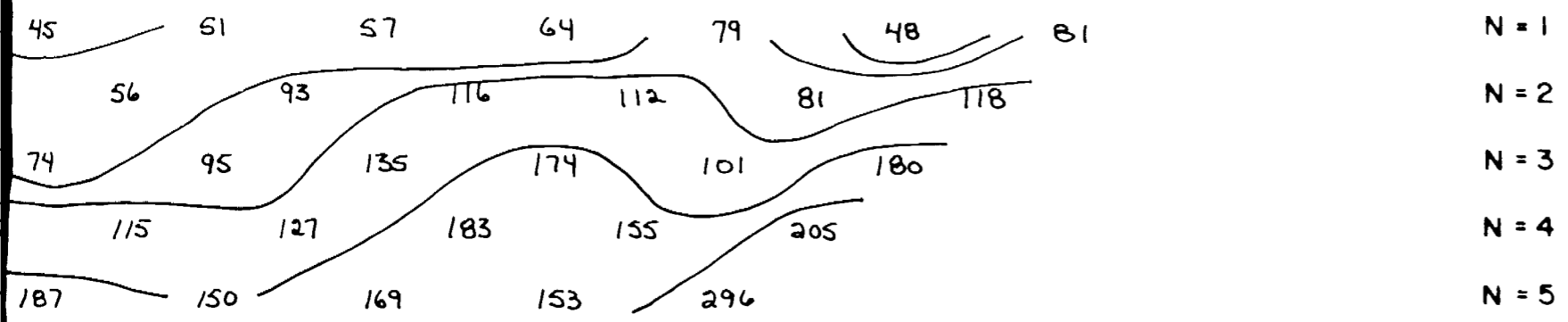
725



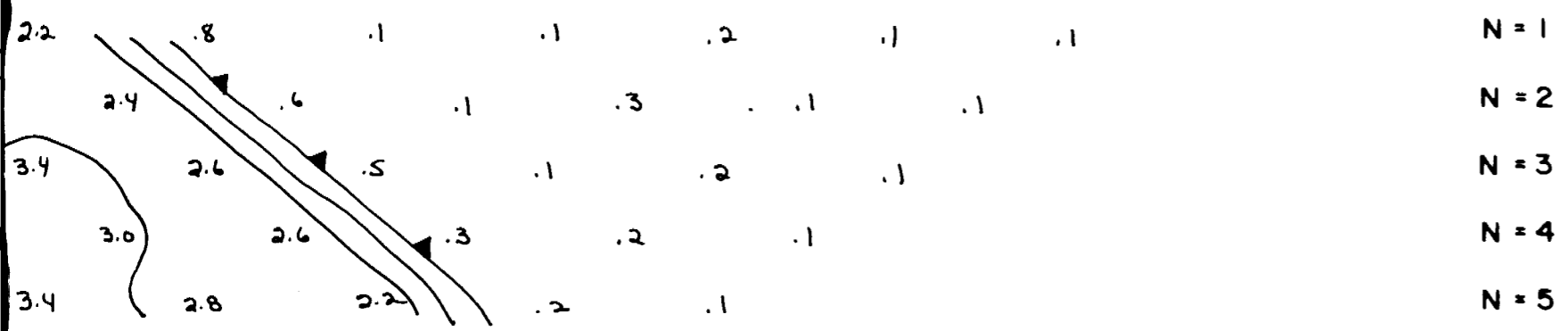
FLAT.

145 125 105 85 65 45 25 0

RESISTIVITY (APP) IN OHM FEET

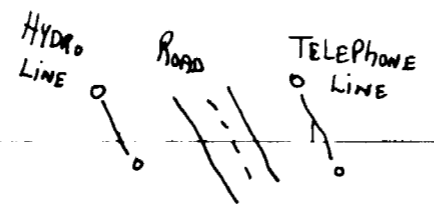
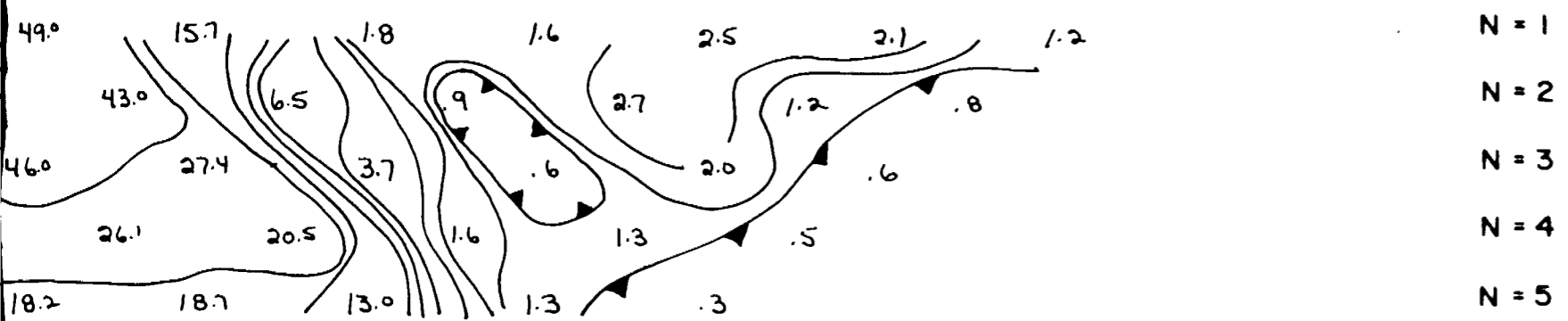


FREQUENCY EFFECT (APP) IN %



145 125 105 85 65 45 25 0

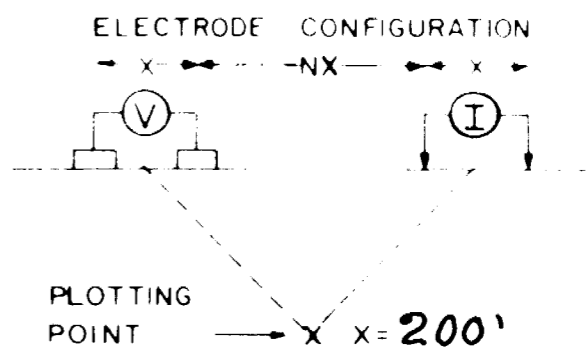
METAL FACTOR (APP)



COMPANY: FALCONBRIDGE LTD.

PROPERTY: HOYLE
TIMMINS, ONTARIO

LINE NO - 22W



SURFACE PROJECTION OF ANOMALOUS ZONES

FREQUENCIES 0.25 & 4.0 HZ

- DEFINITE
- PROBABLE
- POSSIBLE

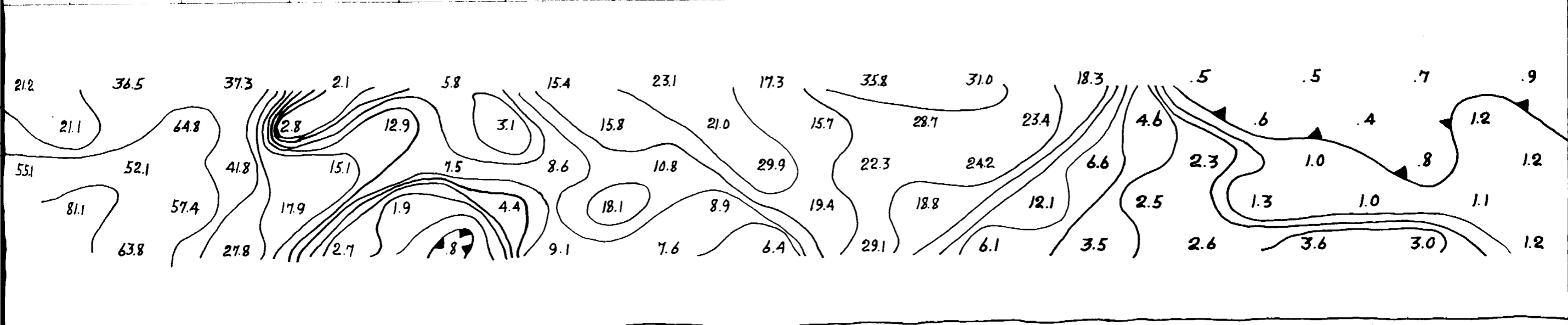
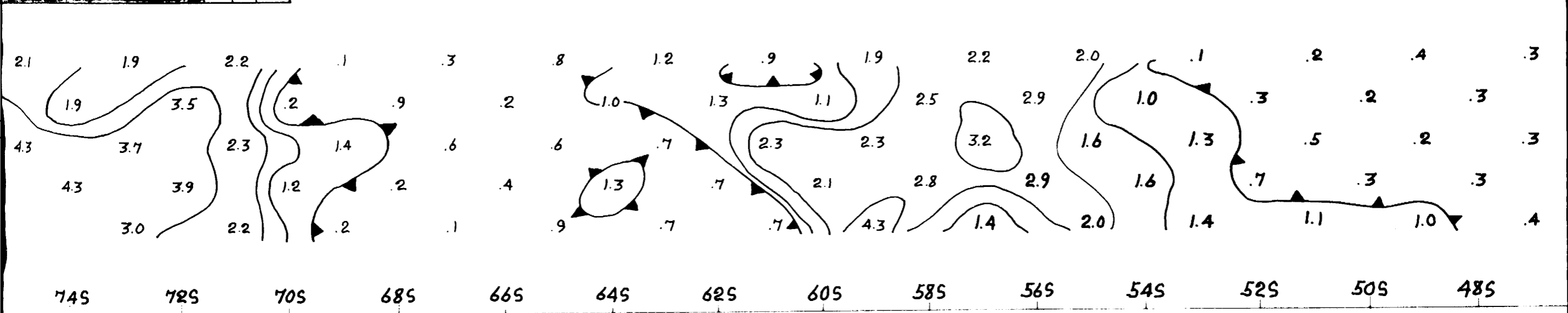
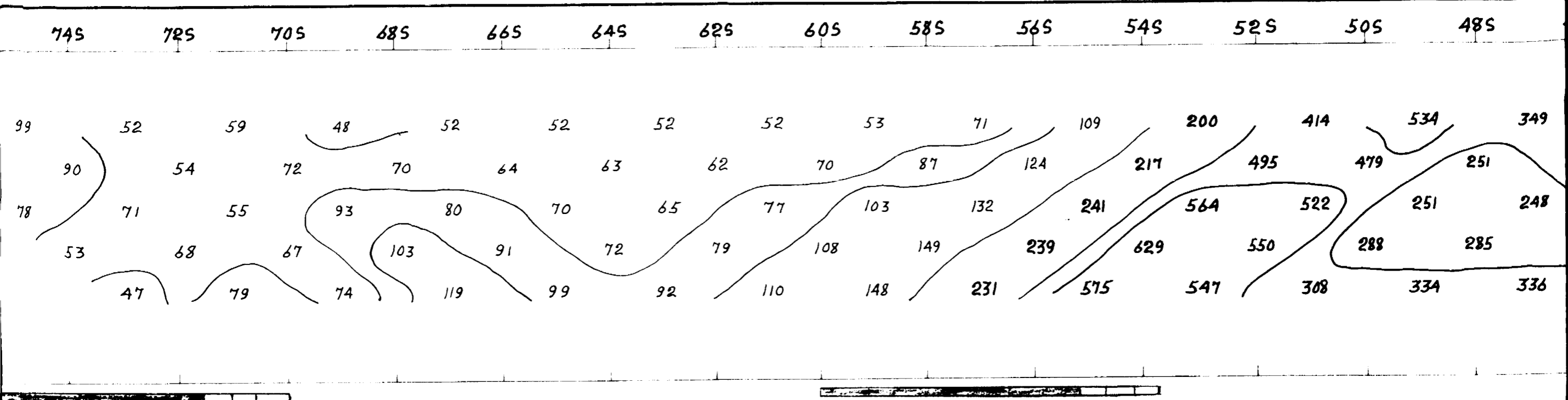
NOTE CONTOURS AT LOGARITHMIC INTERVALS 1, 1.5, 2, 3, 5, 7.5, 10.0

INSTRUMENT PHOENIX IPV-1
 IPT-1
 CONTRACTOR Remy BELANGER ENRG.

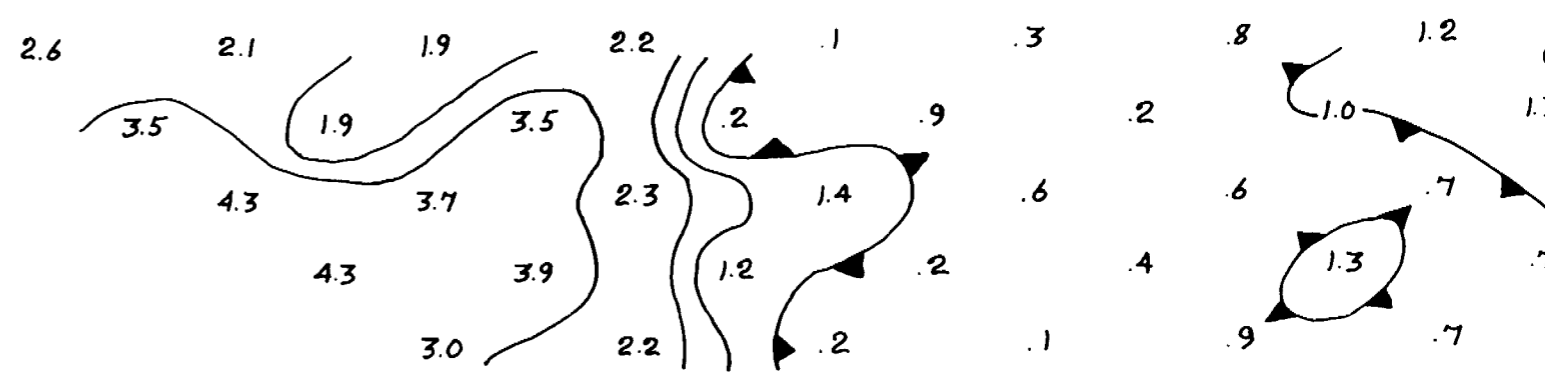
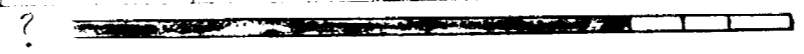
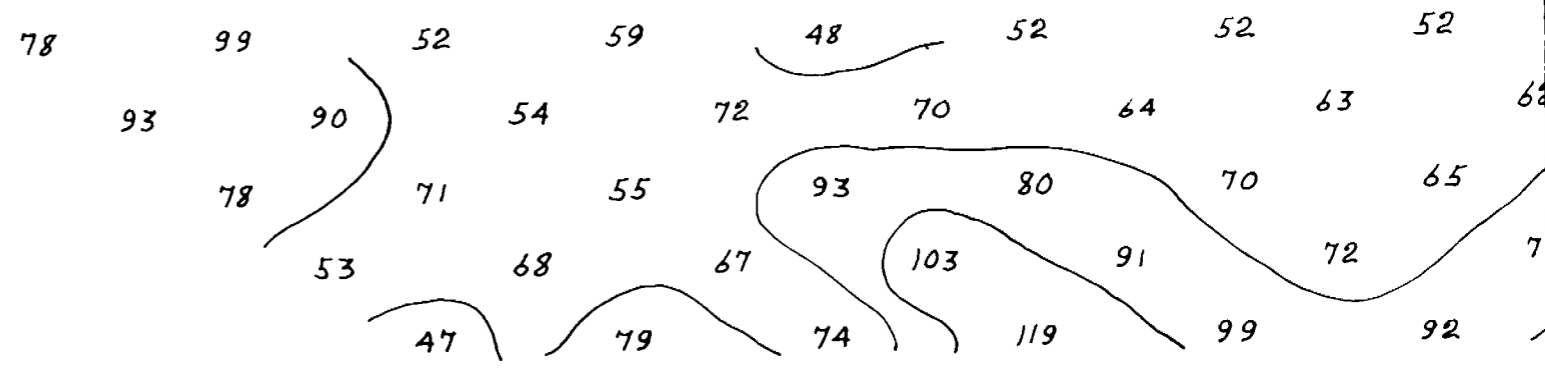
DATE SURVEYED
July-13- 1984
AUGUST-1-20- 1984
 OPERATOR ANDRE FAUBERT

APPROVED _____
 DATE _____

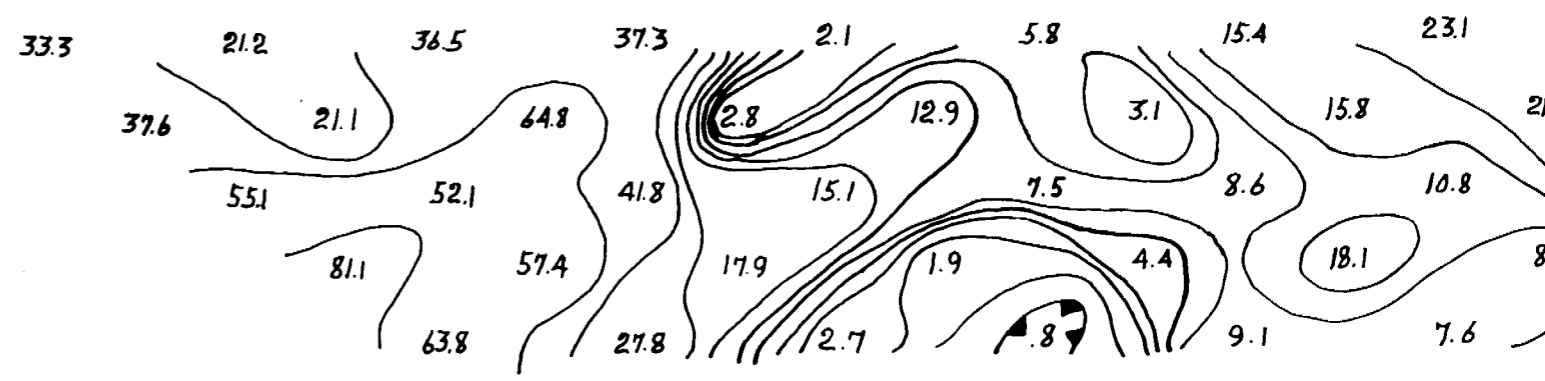
INDUCED POLARIZATION AND RESISTIVITY SURVEY

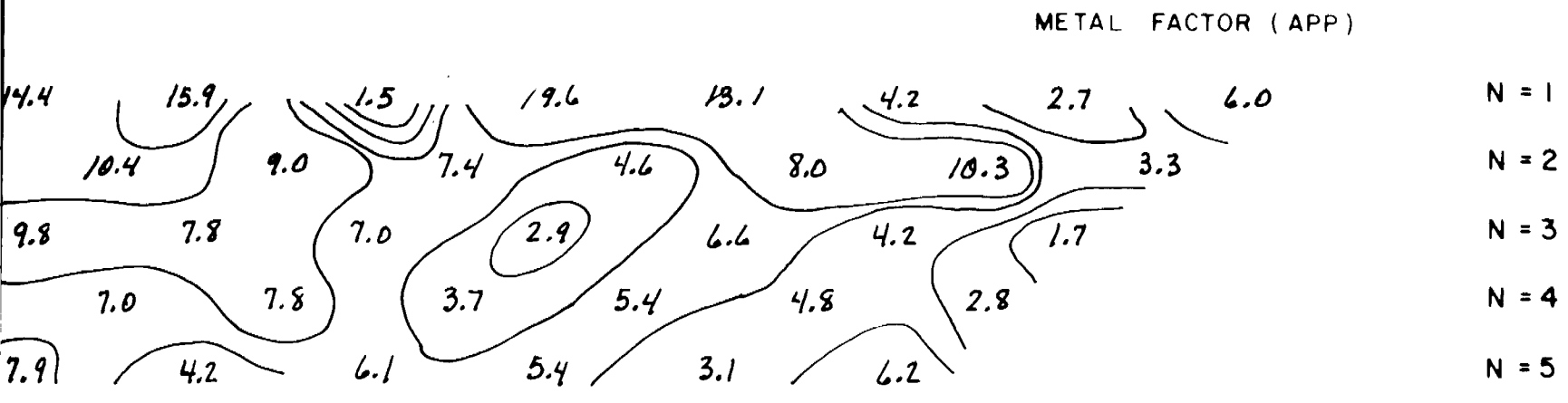
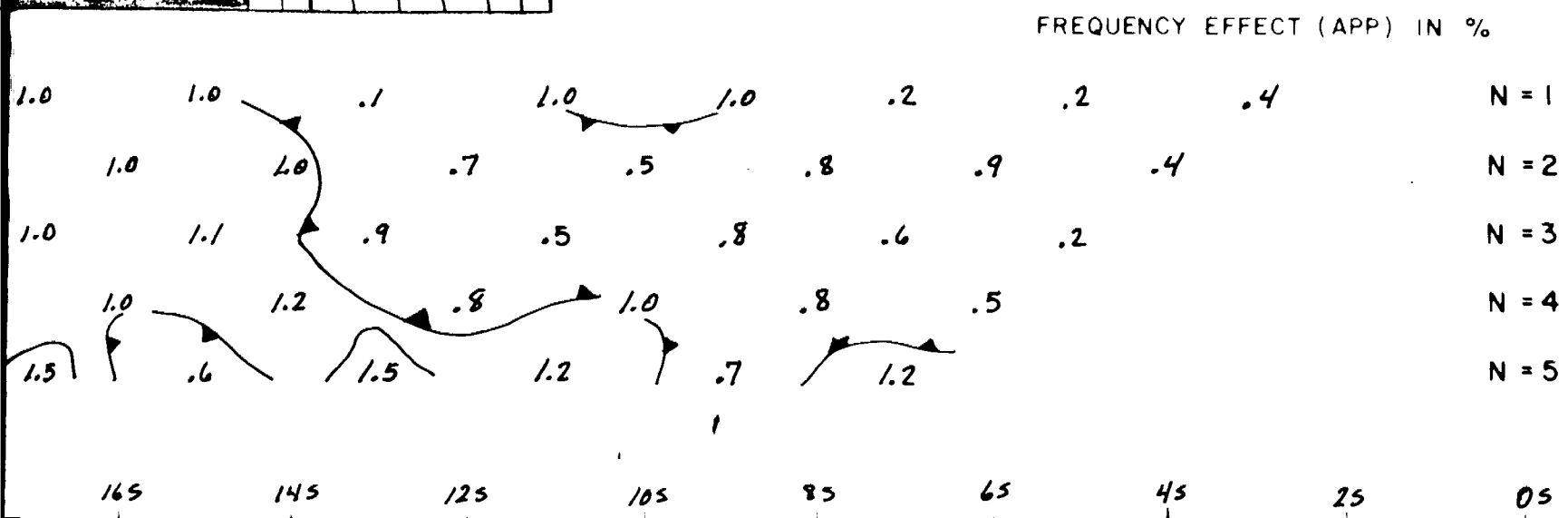
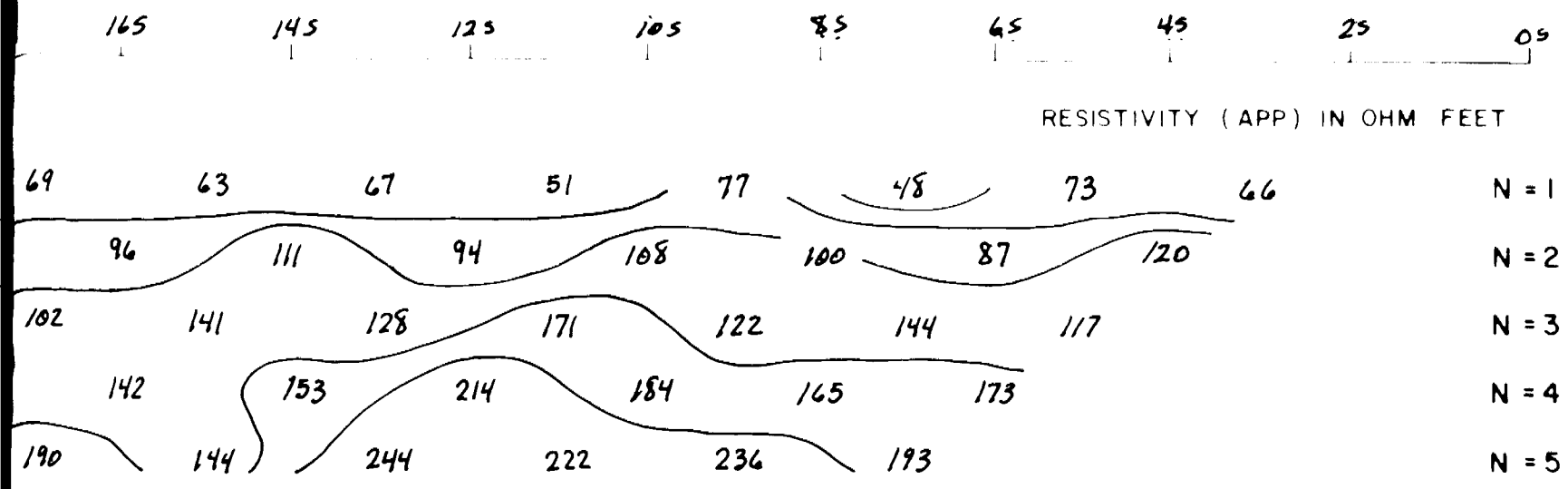


805 785 765 745 725 705 685 665 645 625



805 785 765 745 725 705 685 665 645 625



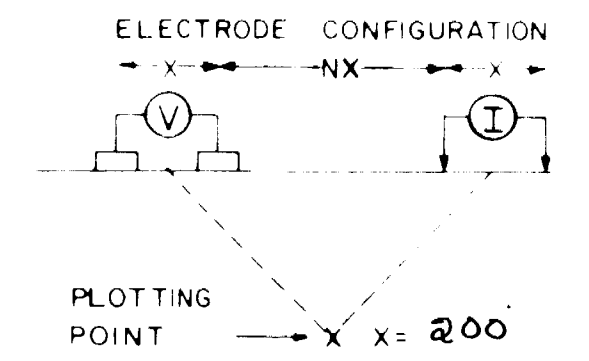


COMPANY: FALCONBRIDGE LTD.

PROPERTY: HOYLE

TIMMINS - ONTARIO

LINE NO - 22E



SURFACE PROJECTION OF ANOMALOUS ZONES

FREQUENCIES .25 & 4.0 H.Z.

DEFINITE

PROBABLE

POSSIBLE

NOTE CONTOURS AT LOGARITHMIC INTERVALS 1, 1.5, 2, 3, 5, 7.5, 10.0

INSTRUMENT PHOENIX IPV-1 IPT-1

CONTRACTOR REMY BELANGER ENRG.

DATE SURVEYED

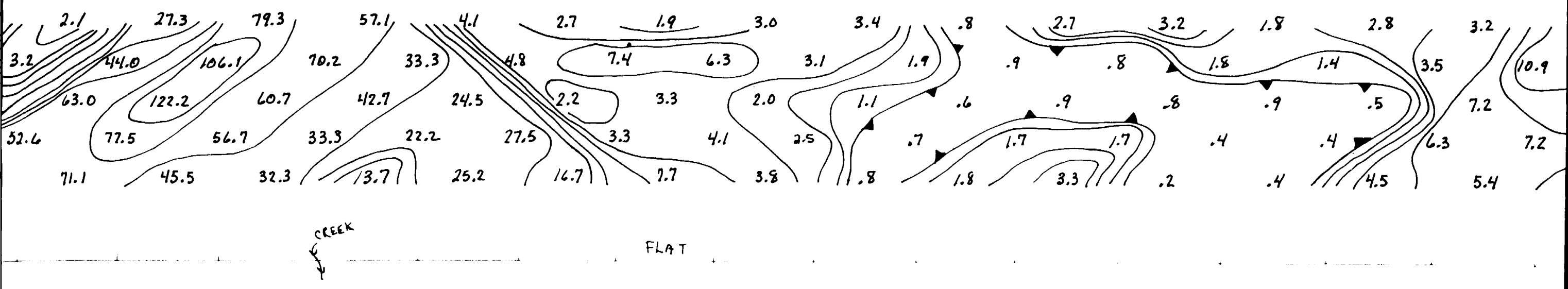
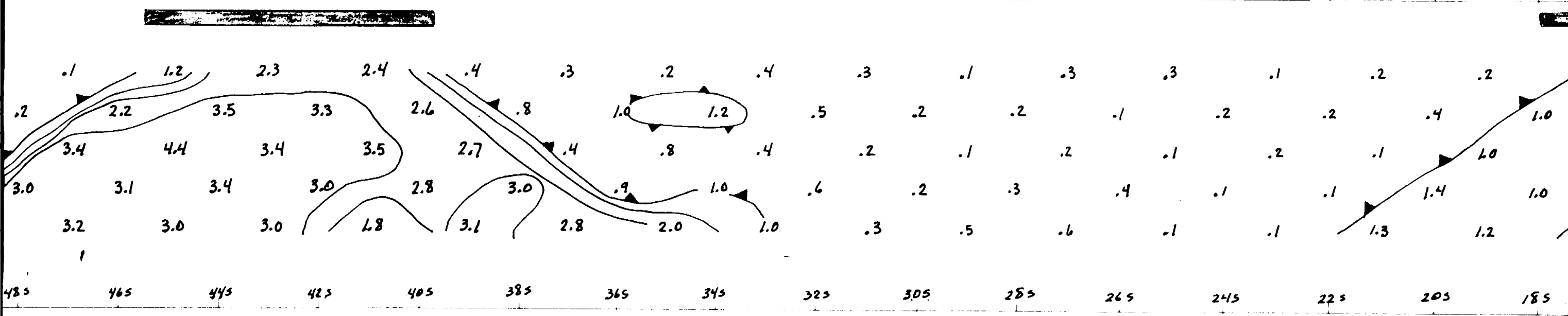
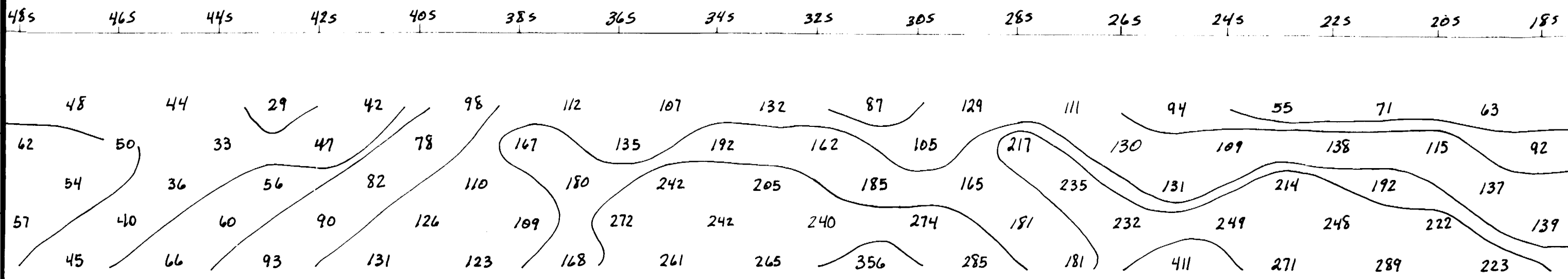
APPROVED

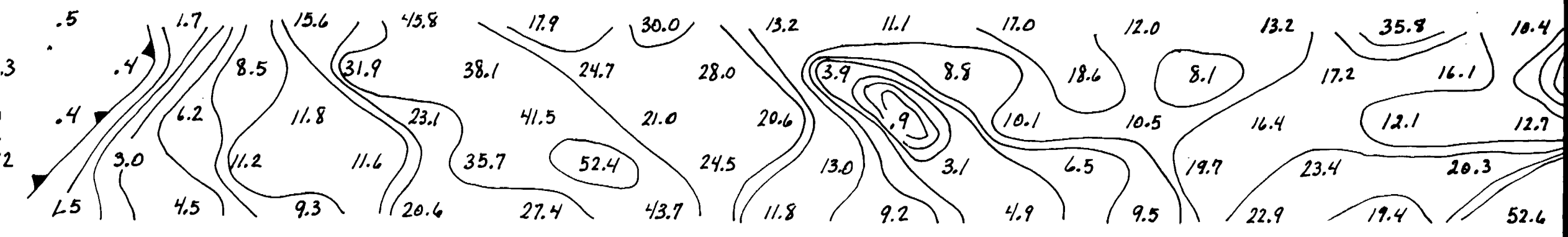
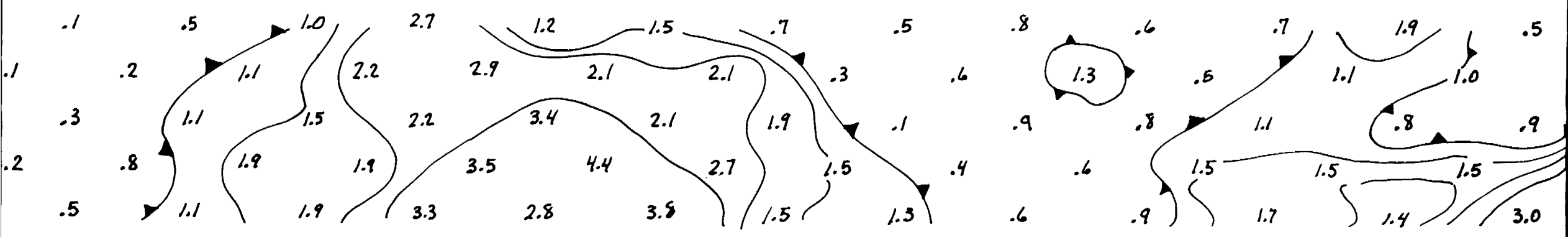
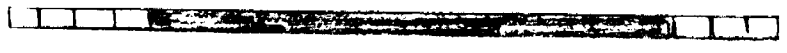
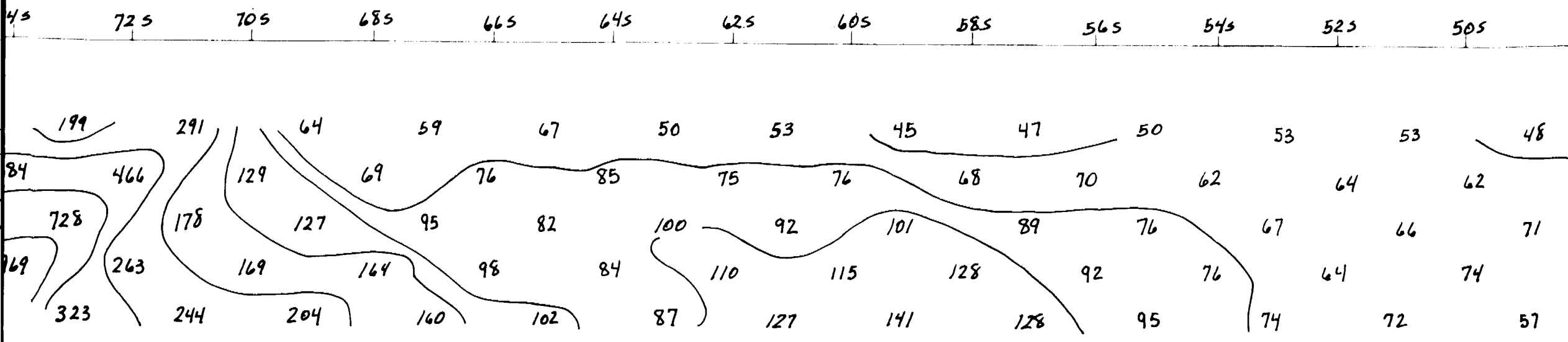
AUG. 12-13-14-84

OPERATOR R. BELANGER.

DATE

INDUCED POLARIZATION AND RESISTIVITY SURVEY





FLAT

805

785

765

745

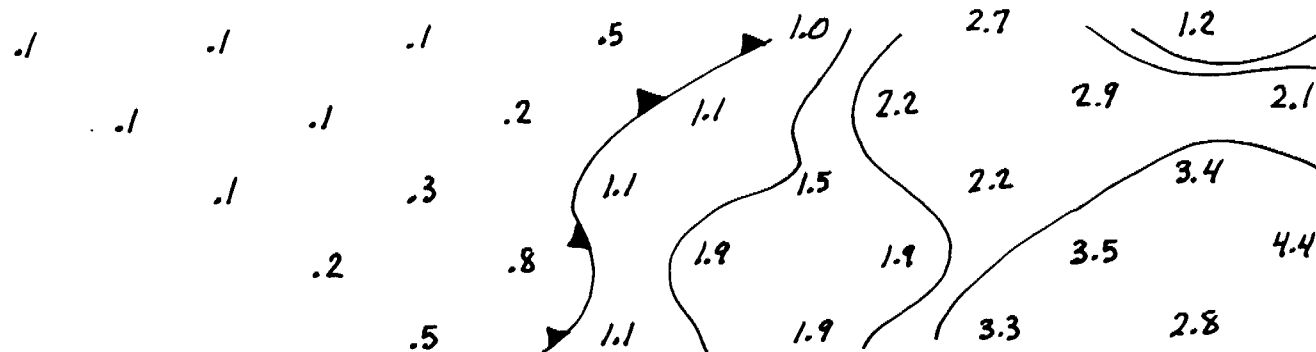
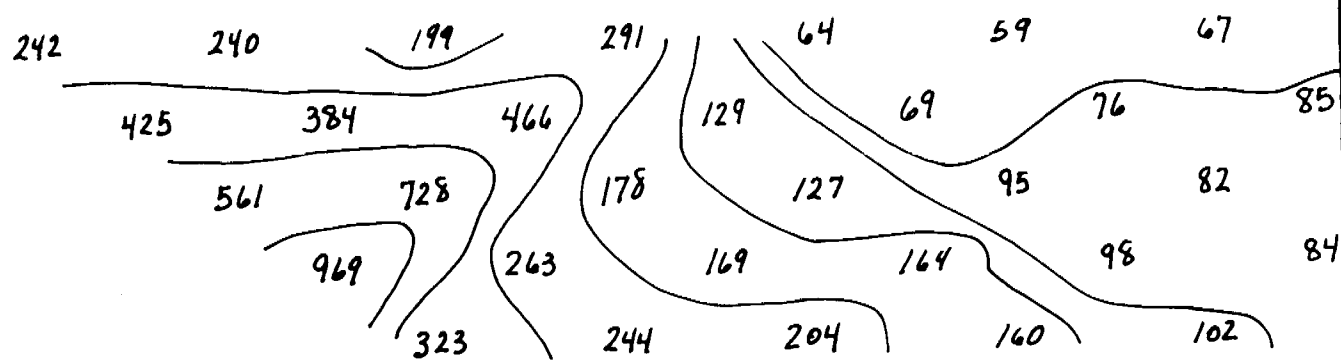
725

705

685

665

645



805

785

765

745

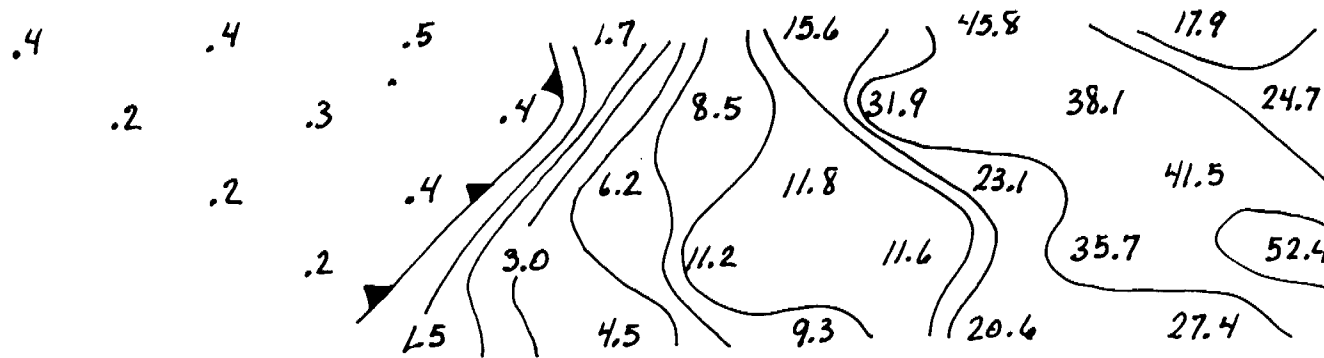
725

705

685

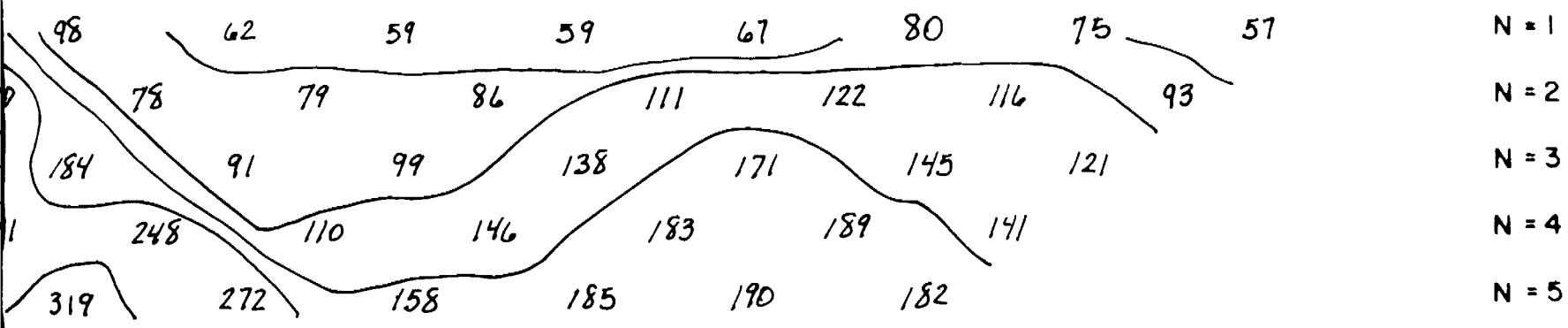
665

645

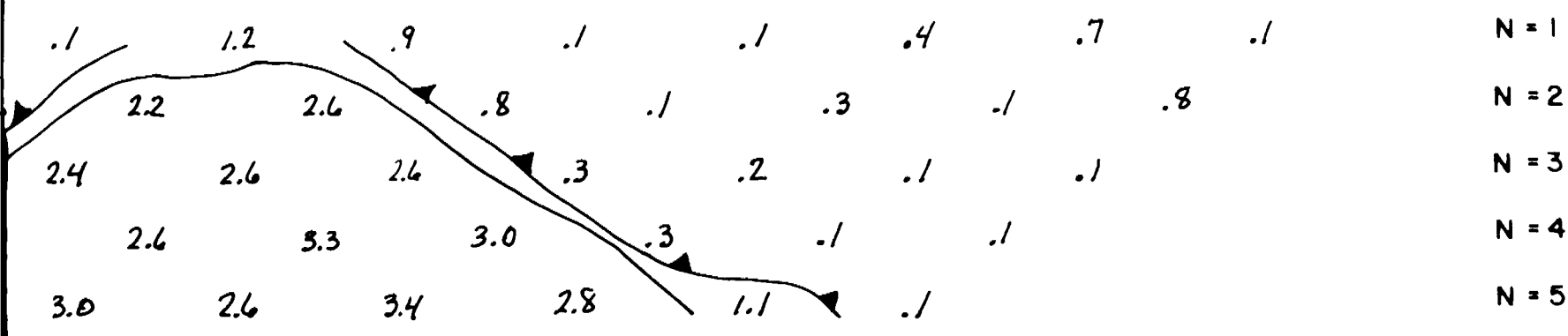


1600S 1400S 1200S 1000S 800S 600S 400S 200S 0

RESISTIVITY (APP) IN OHM FEET

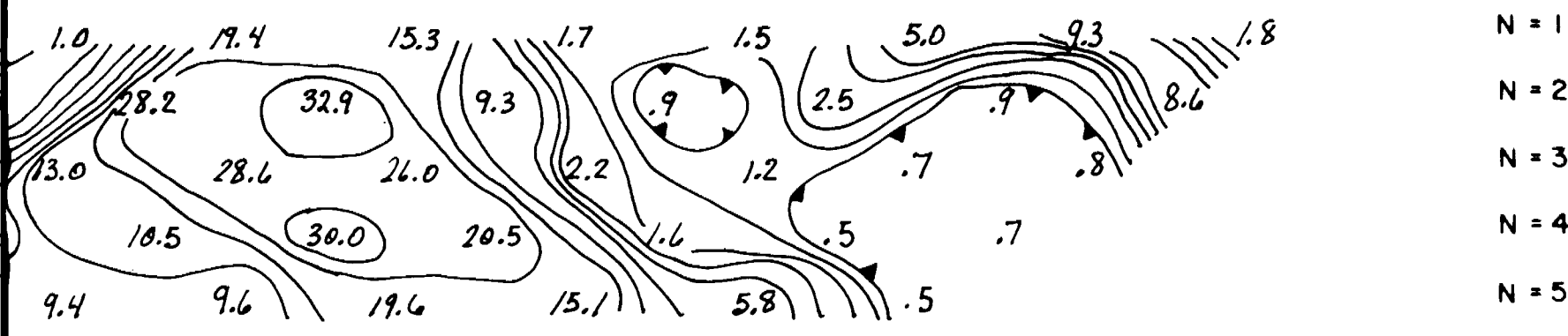


FREQUENCY EFFECT (APP) IN %



1600S 1400S 1200S 1000S 800S 600S 400S 200S 0

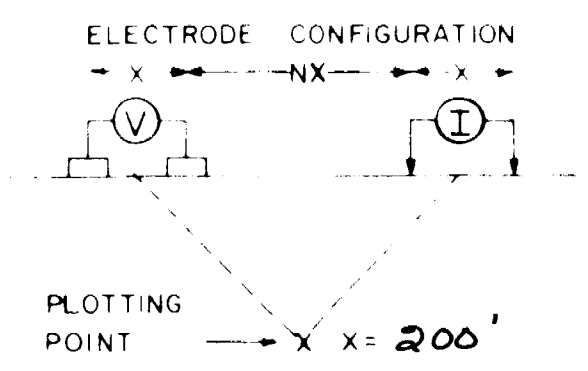
METAL FACTOR (APP)



COMPANY: FALCONBRIDGE LTD.

PROPERTY: HOYLE
TIMMINS - ONTARIO

LINE NO - 18+00W



SURFACE PROJECTION OF ANOMALOUS ZONES

FREQUENCIES: .25 & 4.0 H.Z.

DEFINITE **————**
 PROBABLE **|||||**
 POSSIBLE **////**

NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1, 1.5, 2, 3, 5, 7.5, 10.0

INSTRUMENT: PHOENIX IPV-1 IPT-1
 CONTRACTOR: REMY BELANGER ENRG

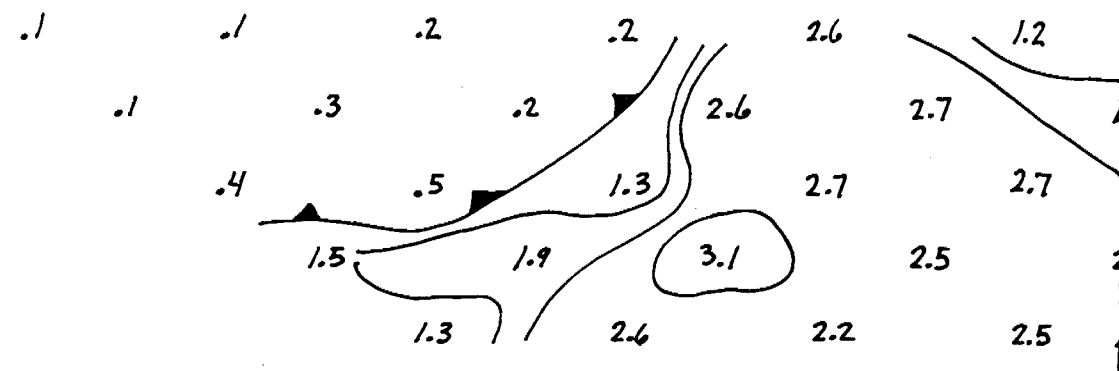
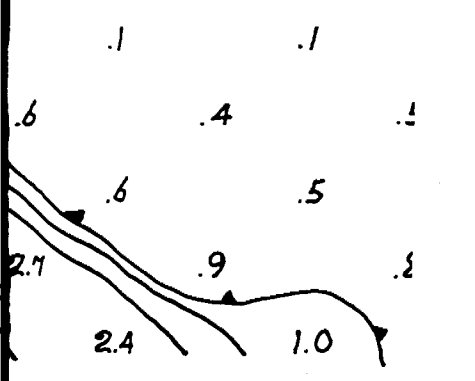
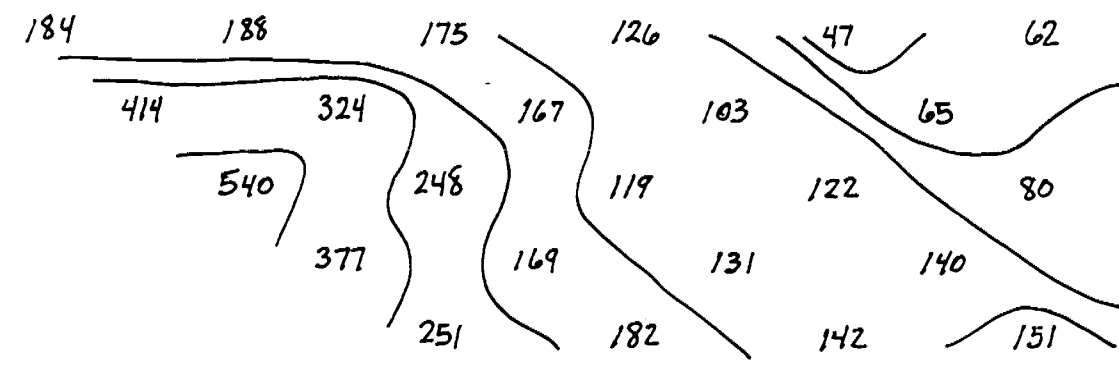
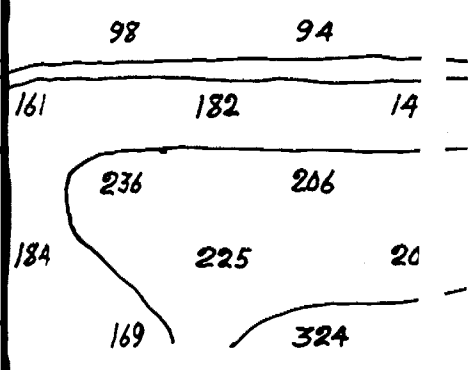
DATE SURVEYED: JULY 13 - AUG 07 1984 APPROVED: _____

OPERATOR: REMY BELANGER DATE: _____

INDUCED POLARIZATION AND RESISTIVITY SURVEY

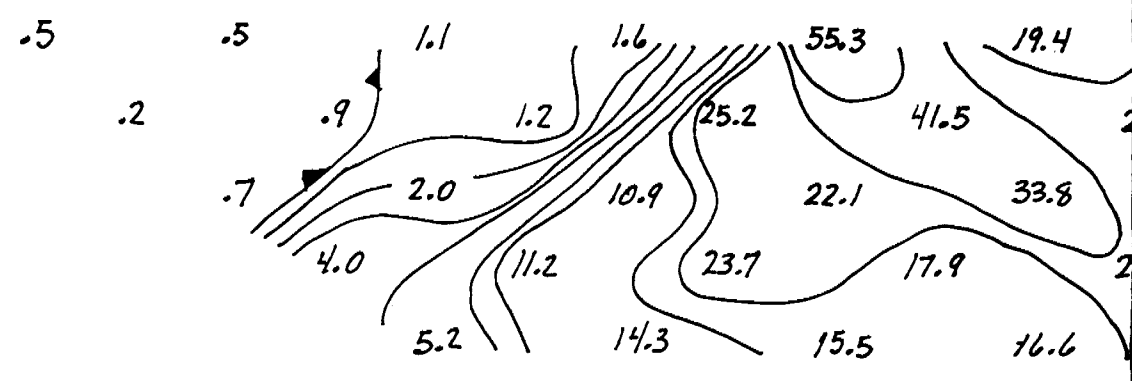
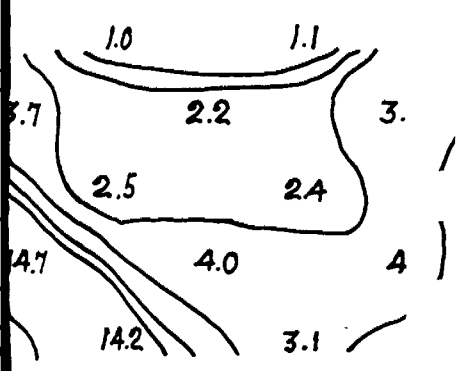
40S 38S 36S

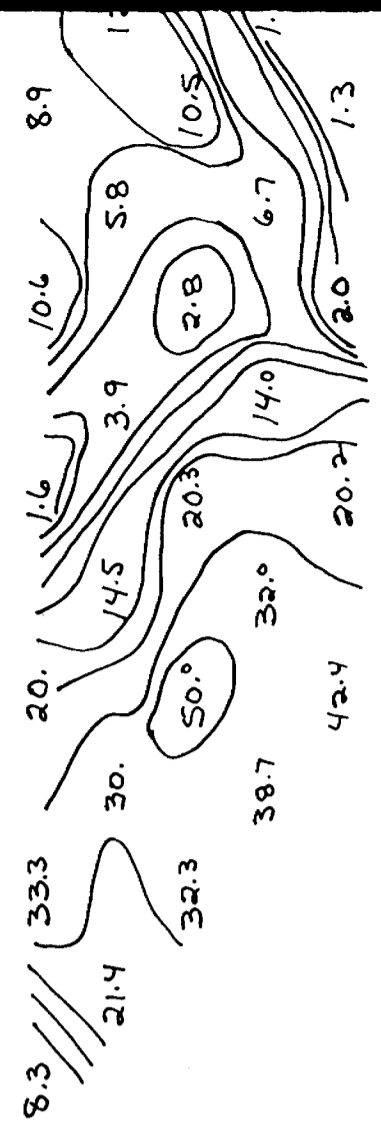
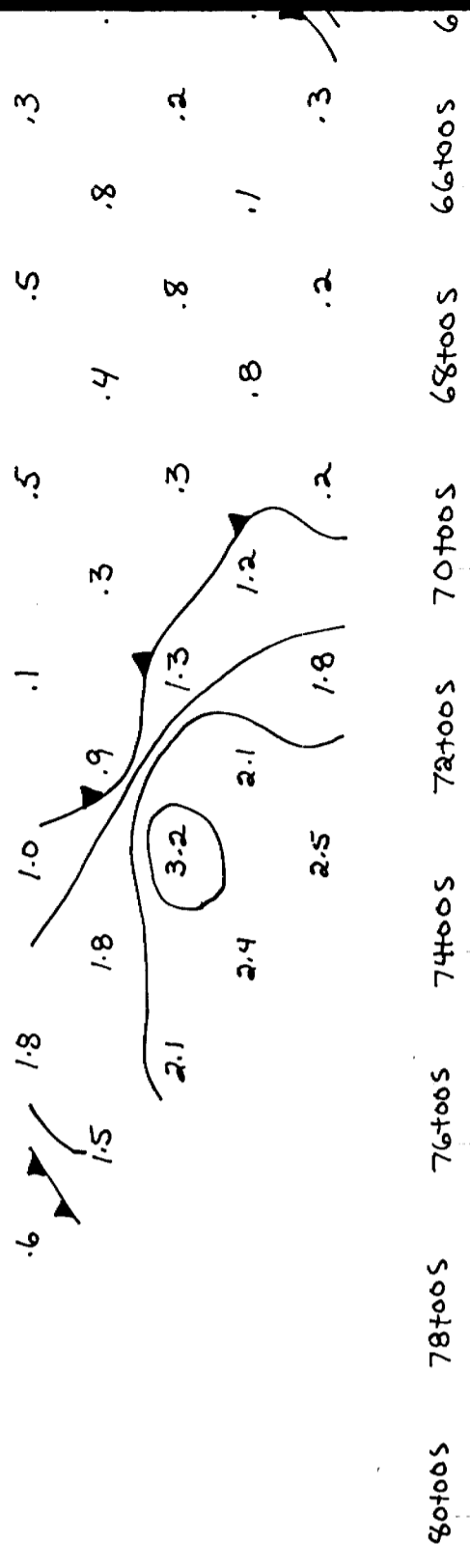
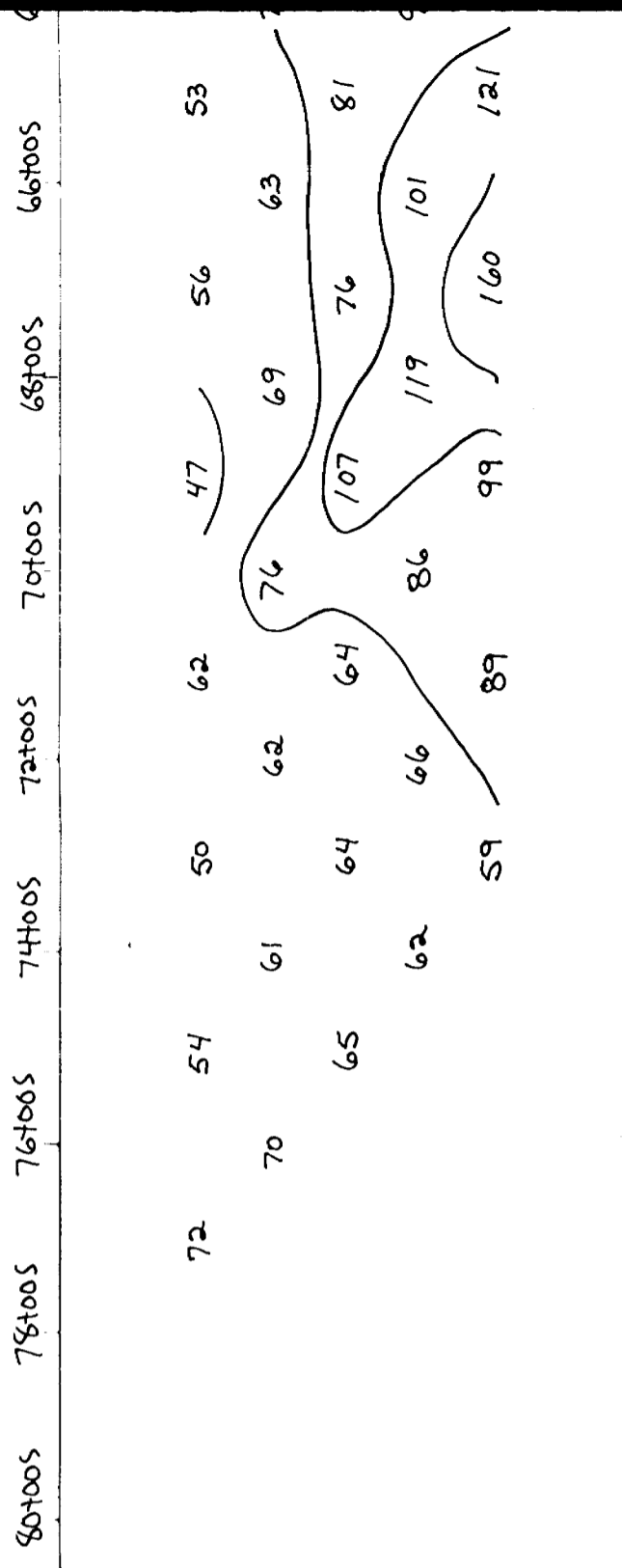
80S 78S 76S 74S 72S 70S 68S



40S 38S 36S

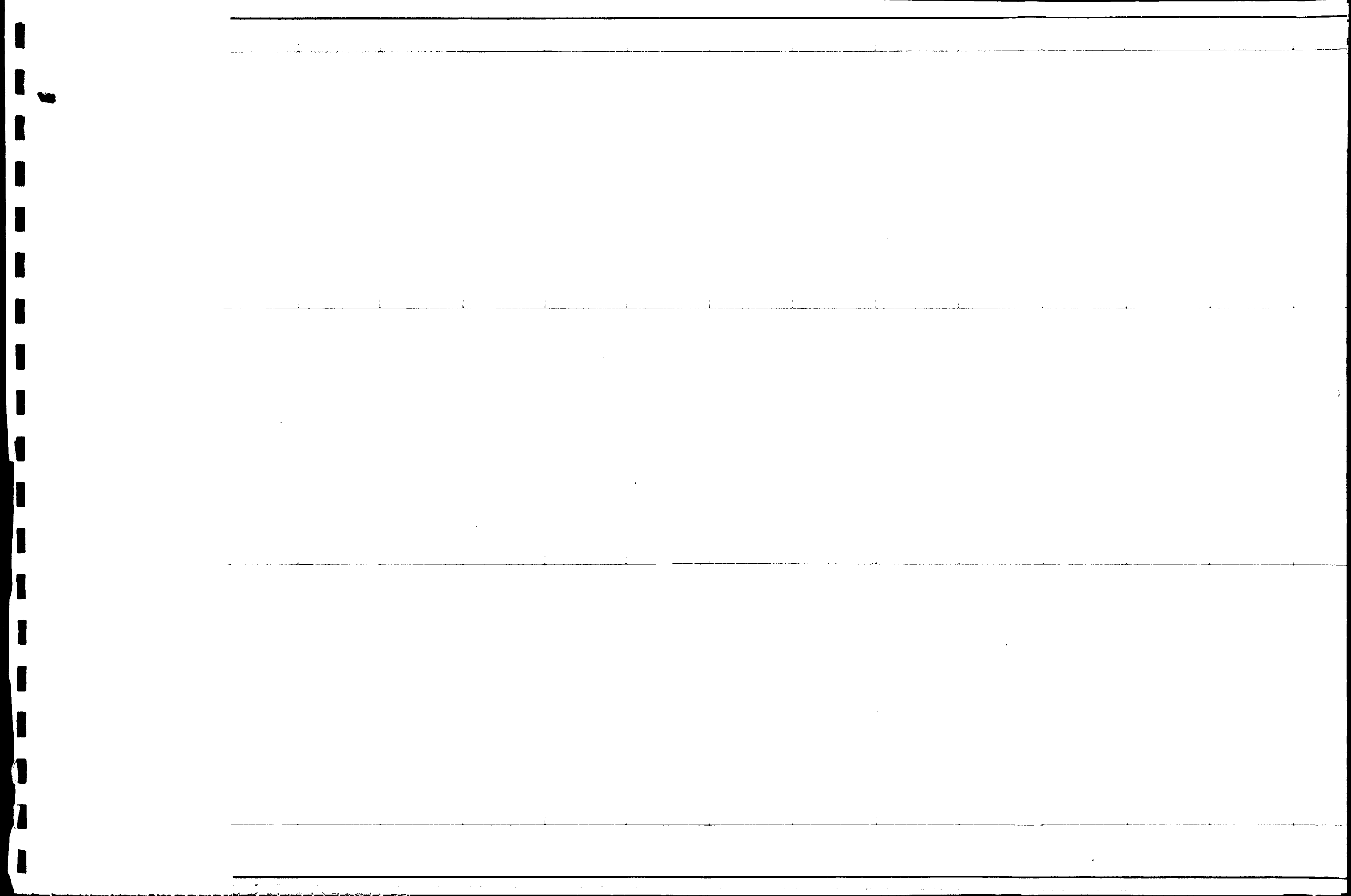
80S 78S 76S 74S 72S 70S 68S

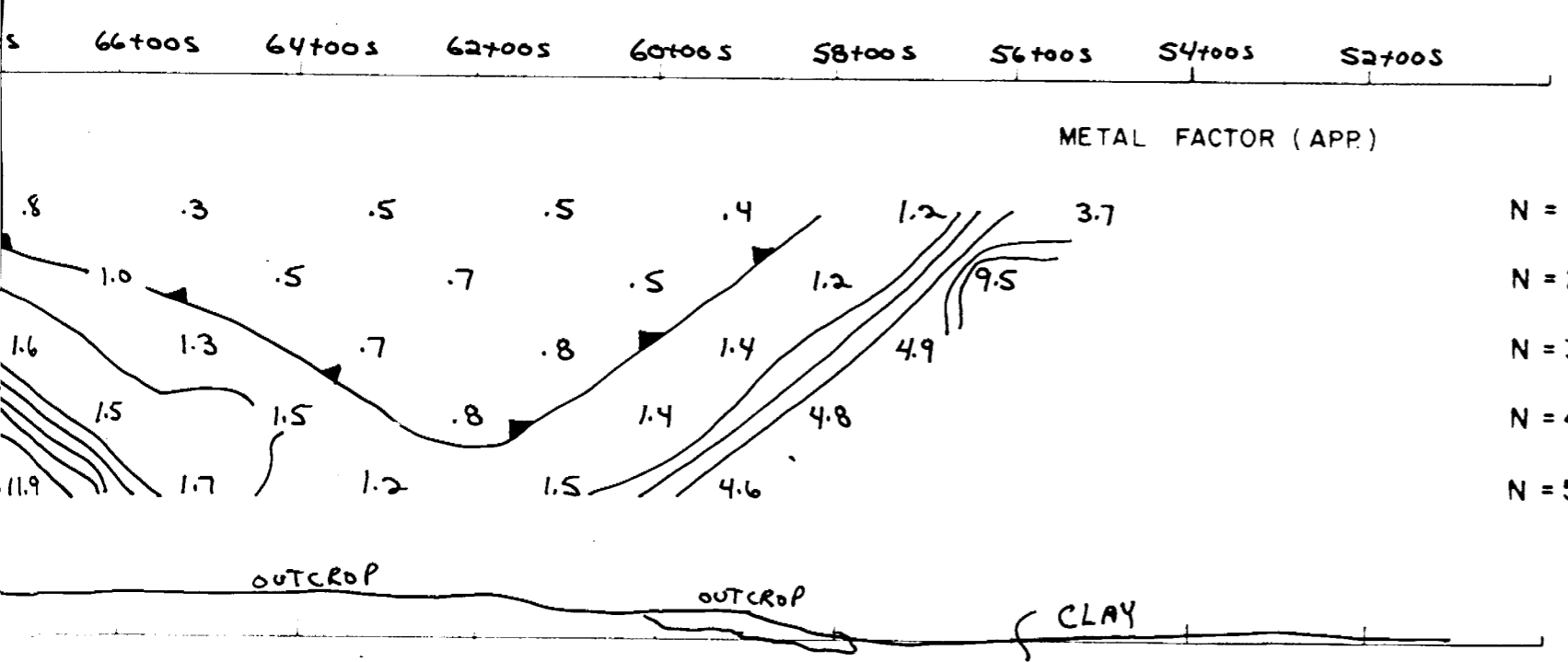
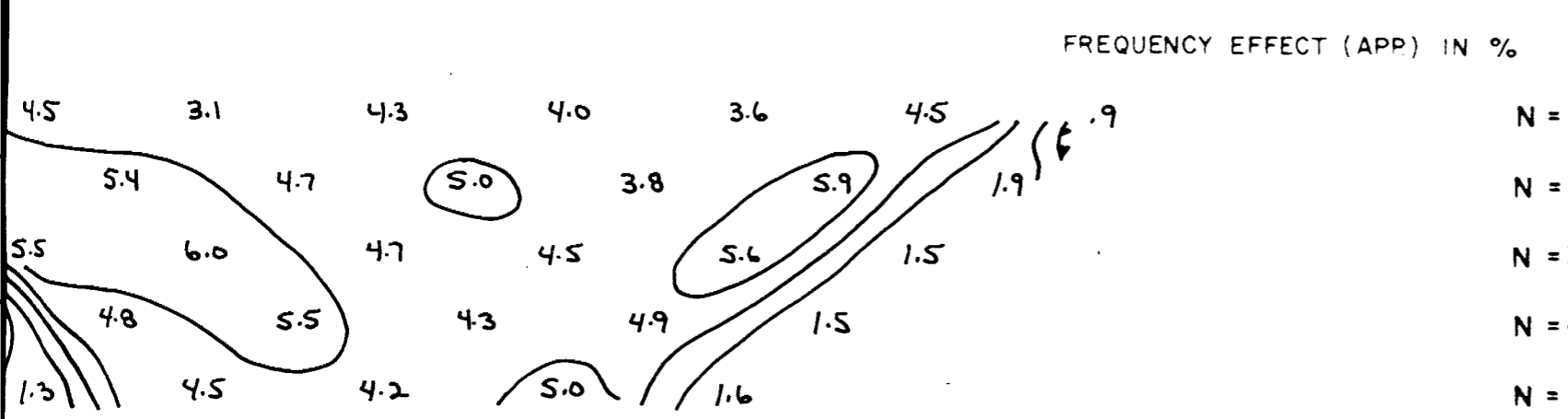
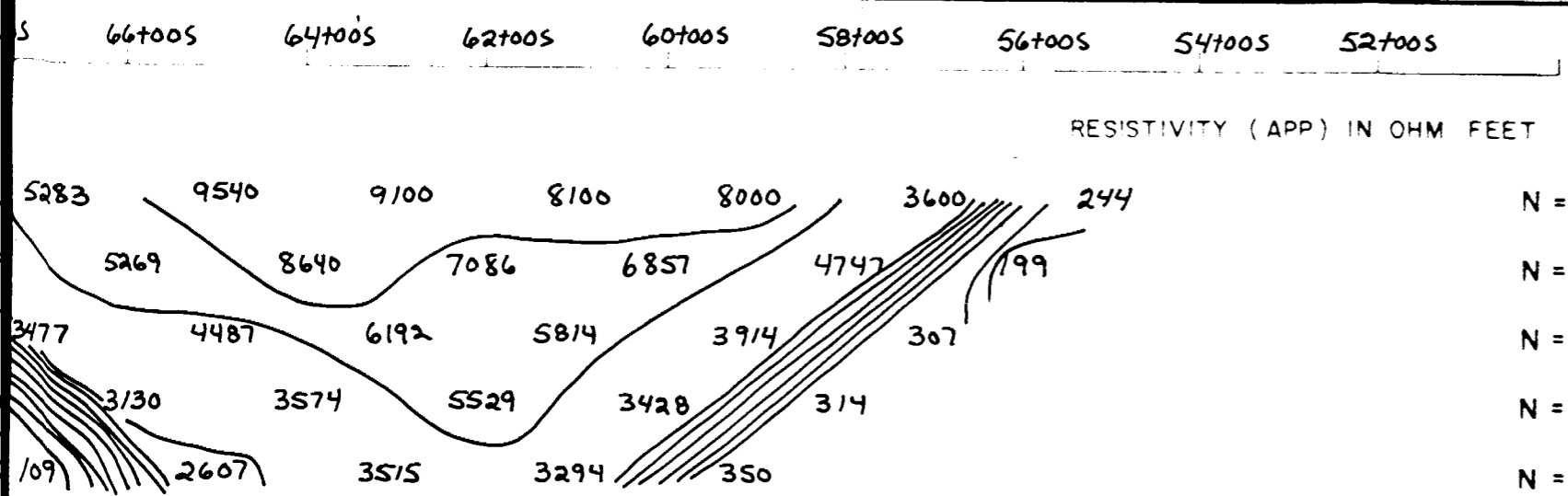




SWAMP.

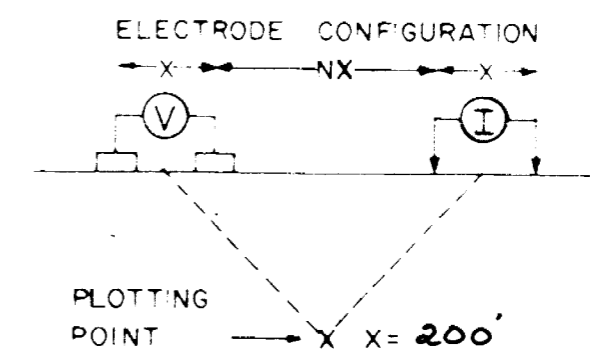
SWAMP.





COMPANY: FALCONBRIDGE LTD.
 PROPERTY: HOYLE
TIMMINS, ONTARIO

LINE NO - 5400W



SURFACE PROJECTION OF ANOMALOUS ZONES

FREQUENCIES: .25 & 4.0 H.Z.

DEFINITE
 PROBABLE
 POSSIBLE

NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1, 1.5, 2, 3, 5, 7.5, 10.0

INSTRUMENT : PHOENIX IPV-1
 IPT-1
 CONTRACTOR : REMY BELANGER ENRG.

DATE SURVEYED
JULY 26- 1984

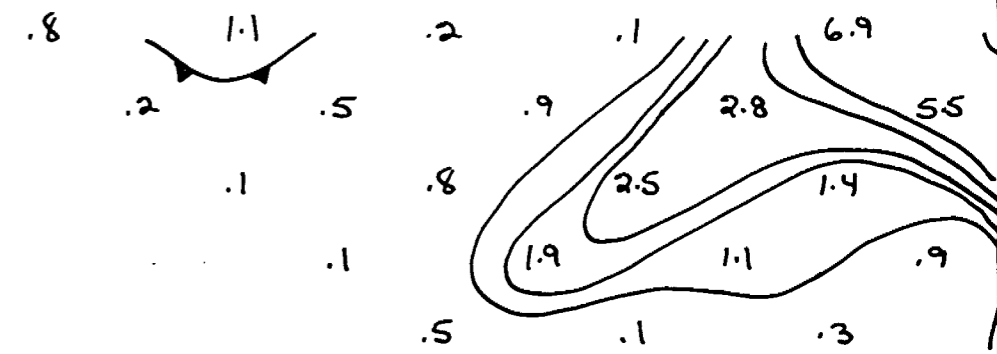
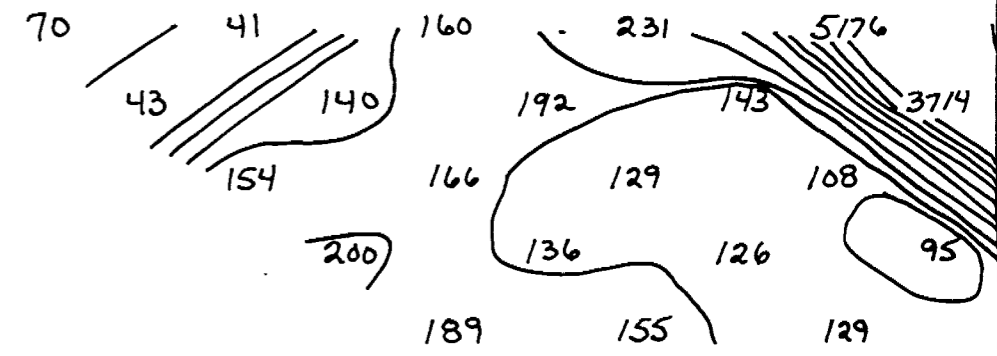
APPROVED _____

OPERATOR REMY BELANGER. DATE: _____

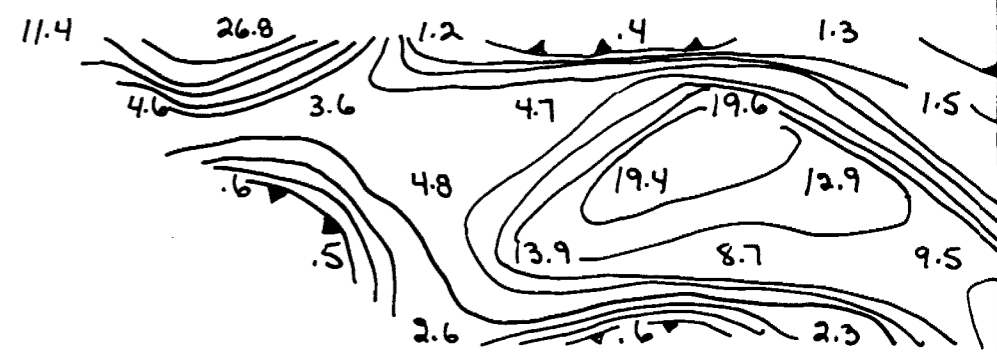
INDUCED POLARIZATION AND RESISTIVITY SURVEY

634494

80+00s 78+00s 76+00s 74+00s 72+00s 70+00s 68+00s



80+00s 78+00s 76+00s 74+00s 72+00s 70+00s 68+00s



CLAY

OUTCROP

MAGLOIRE BERUBE
INGENIEUR-CONSEIL

63.4484



42A11SE0200 63.4484 CODY

030

FALCONBRIDGE LTD
GEOLOGICAL AND GEOCHEMICAL REPORT
ON HOYLE PROPERTY (PN-608)
WHITNEY AND CODY TOWNSHIPS, ONT.
March 20, 1985 Magloire Berube, P. Eng.

INTRODUCTION

This report summarizes the results of geological and geochemical surveys done by Falconbridge Ltd on its Hoyle property.

DESCRIPTION

The property comprises 36 patented claims grouped in one block in Whitney and Cody townships, 14 miles east of Timmins, Ont. The property outline, the claims' numbers and the access to the property are all shown on the sketch next page.

LOCAL GEOLOGY

The local geology can be summarized as an alternance of N 70° E trending and steeply north-dipping overturned pile of sedimentary and volcanic formations. The sediments are mainly represented by conglomerates, quartzites, greywackes, siltstones and argillites whereas the volcanic rocks are mainly represented by basalt and serpentine. Some mafic tuffs and graphitic bands occur as thin units in some sedimentary formations.

The property is traversed by 2 such volcanic bands, a narrower one in the northern half and a larger one in the southern half. The conglomerate bed hosting the Pamour Porcupine orebodies to the west lies unconformably underneath the former one and the middle of the latter one has been highly altered and sheared by the passage of the Destor-Porcupine Break.

A few north-south diabase dikes have been observed from surface or inferred from the magnetic survey.

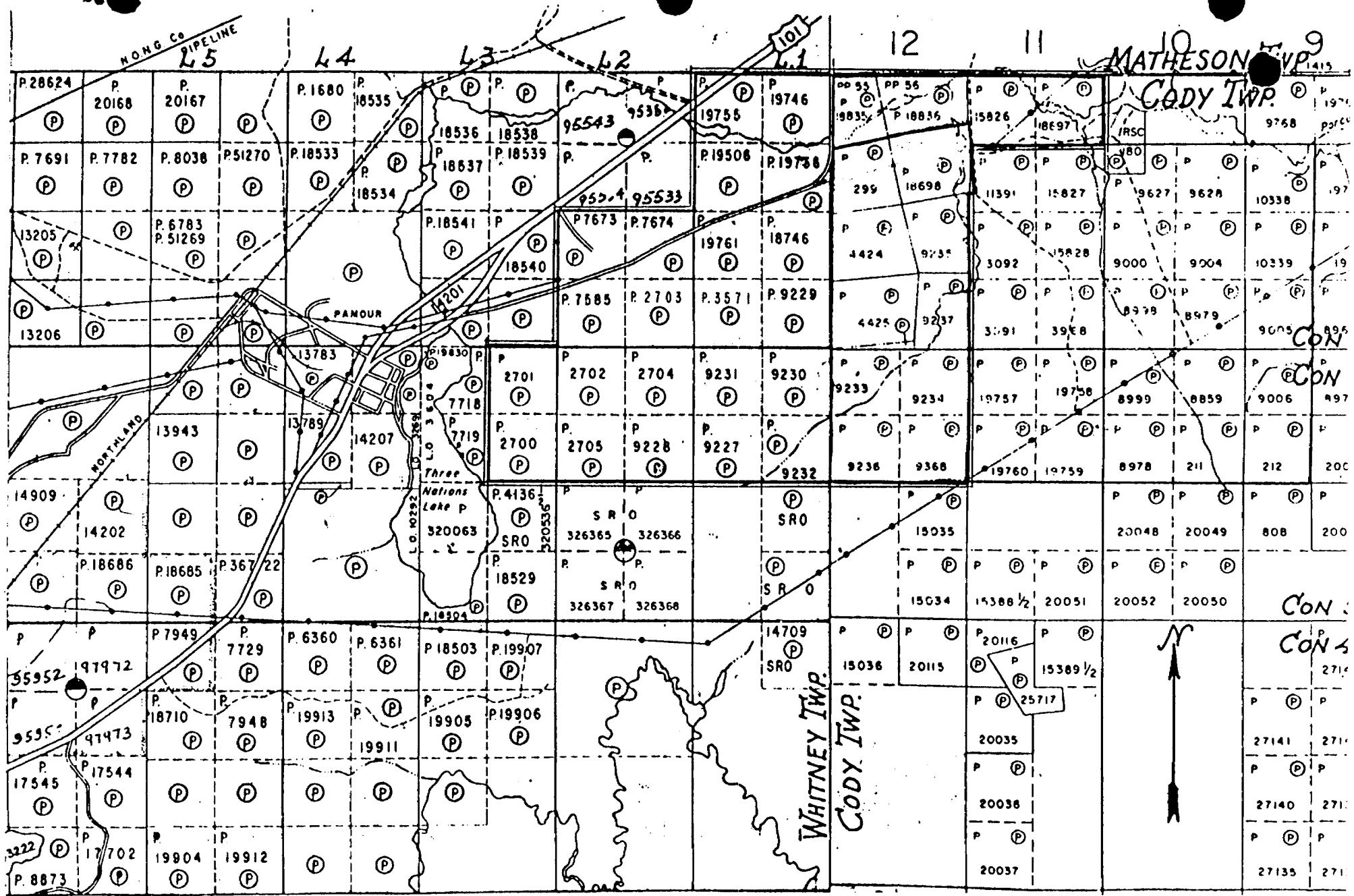
PREVIOUS WORK

Prior to 1978, all of the 50 or so surface diamond drill holes have been bored inside a 1000-foot wide band straddling a favorable volcanic-sedimentary contact, on the extension of the Pamour Porcupine gold mine. Most of the corresponding d.d.h. logs are lost.

In 1937, Hoyle Mines sunk a vertical shaft at least 1800 feet deep and opened the 200, 400, 600, 1000 and 1800 levels for exploration and development but never extracted any ore. From 1978 to 1983, however, Pamour Porcupine mined an orebody from upper levels of the Hoyle property, both by open pit and from underground. Over 3 millions tons grading around 0.08 oz Au/t have been inventoried at greater depth.

RECENT WORK

The work performed by Falconbridge in 1984 comprises an I.P. survey contracted by Remy Belanger Engr., a total field and a vertical gradient magnetometer survey contracted by Geola Ltee and a diamond drill campaign aggregating 8526 feet, has been executed by Dominik Drilling. All that work has already been



HOYLE GOLD MINES LIMITED
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described in separate reports.

The results of the geochemical survey, of the geological survey and of the stripping work are discussed here below.

During August 1984, two technicians walked along all the cut lines (60 miles) to locate and to sample the outcropping rocks. 96 geochemical samples (numbered 84B0-01 to 96) have been collected and sent to X-ray Assay Laboratories for gold determinations by neutronic activation method. All assay results have been plotted on a 1:5000 scale geochemical map in pocket.

During September 1984, the author carried out a geological survey over the outcropping areas outlined by the technicians and presented the results on a 1" = 100' map also in pocket. The outcrops around and north of the open-pit have been examined but not remapped, that work having been well done before.

During October 1984, an area of 800 feet by up to 50 feet have been mechanically stripped by Northland Exploration and water-jet washed and sampled by Scott Bruce, geologist of Falconbridge Ltd. That work was done to sample a rich sulfide zone discovered during the geological survey. 29 additional geochemical samples (numbered from 9001 to 9008 and from 9027 to 9047) have been collected and sampled from the stripped area and also from the big outcrop south of it. Those results appear on both maps in pocket. The stripped area was not mapped because of ice and snow.

DISCUSSION OF RESULTS

Geochemistry

The anomalous samples coming from the sides of the open-pit will not be discussed because collected along an orebody. The 100 samples coming from the stripped area and from the outcropping area south of it are all very low except for four of them which assayed 1858, 1487, 149 and 89 ppb Au. These anomalous samples have been collected along or south of a bed containing ladder quartz veins on the big outcrops. The 9 additional samples picked up from the same units did not detect any anomalous readings. The rich sulfide bed underlying the stripped area is completely barren of gold.

Geology

The geology of the outcropping area, as plotted on the 400-foot scale map in pocket, is represented by an alternance of sedimentary beds striking N 70° E, dipping 60 to 80° north and cut by a diabase dike striking N 70° to 80° W. The sediments are mainly formed of quartzites and pebbly conglomerates.

The quartzites are variable, light grey to buff or rusty, highly siliceous to highly carbonatized (northern part), equigranular to fragmental, pure to impure. They frequently contain a variable

amount of fragments, green angular fragments mainly composed of chlorite, probably derived from volcanic schists, and grey rounded fragments having a composition similar to the quartzite itself (pebbly).

The pebbly conglomerates are concentrated in two main layers, one north and one south of the big outcrop, where the concentration of pebbles could reach 50%. The green chlorite chips are usually bigger and more numerous near or inside the pebbly conglomerates. Chloritic fragments form the majority of the rock in some layers on the southwestmost outcrop.

Cross-bedding is common, indicating that tops of beds are facing south and sediments are overturned.

Shearing is locally well developed, particularly along the two layers of pebbly conglomerate.

Stripping

The stripping was done along the northern edge of the big outcrop located south of the open-pit. Geochemical results show that the sulfides, pyrite and pyrrhotite are barren of gold. The sulfides layer is about 3 feet wide and adjacent to a cherty layer.

The 40-foot deep old shaft sunk near station 12+00 E and 20+00 S has been mechanically filled up with surrounding soil, for security reasons, exposing rock that could not be mapped because of snow and cold weather.

CONCLUSION

Information obtained from geological, geochemical and stripping did not succeed to find new gold structures nor diamond drill targets.

RECOMMENDATIONS

No other geological and geochemical survey nor stripping are recommended on the property. Following that work, a diamond drill program has been recommended and executed without success on I.P. targets but promising gold values has been intersected later when drilling targets based on a structural interpretation.

Magloire Berubé

March 20th, 1985

Magloire Berube, P. Eng.



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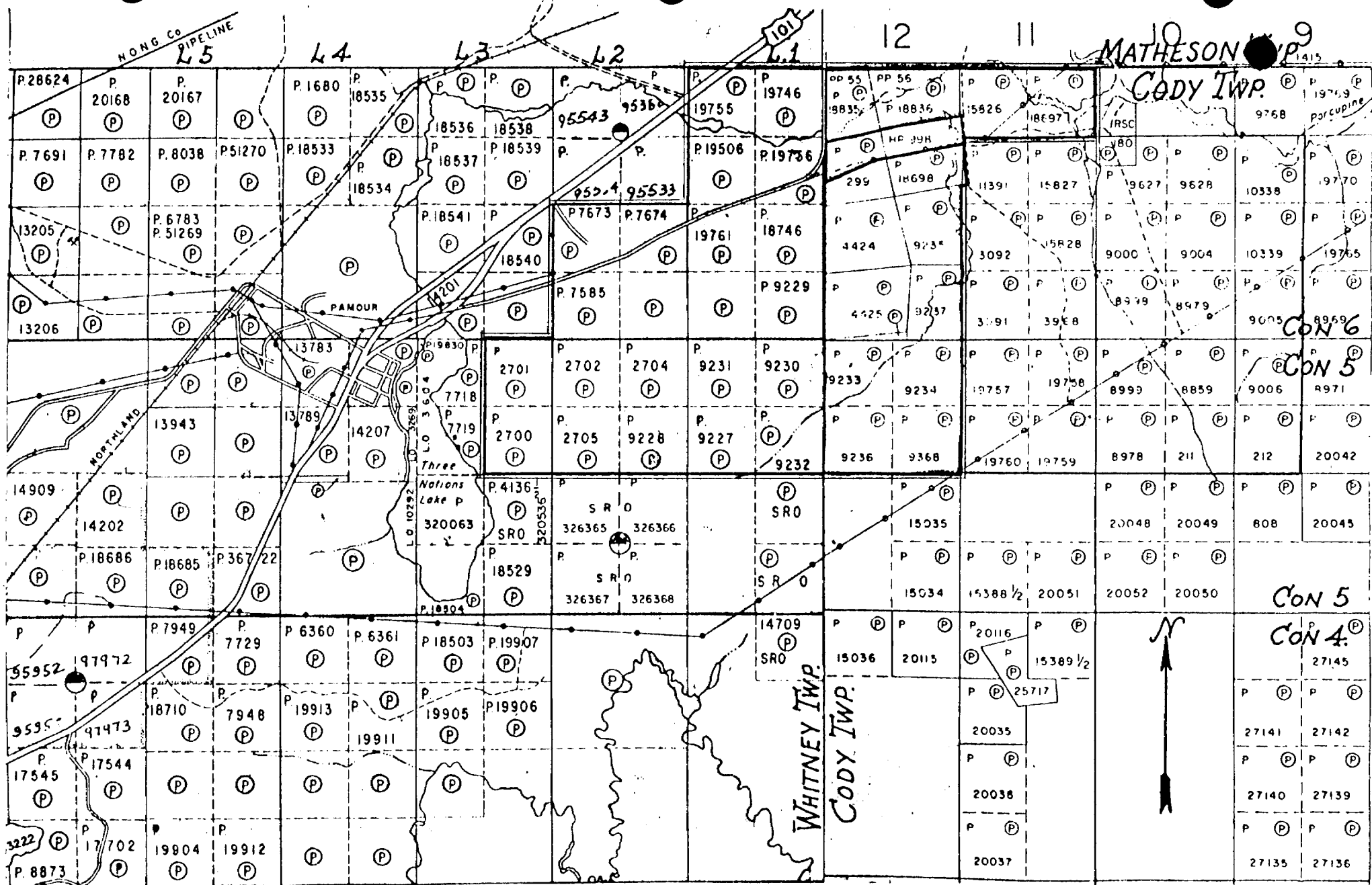
1984 Diamond Drill Report

PN-608 Hoyle Project NTS-42-A-11

Whitney and Cody Townships

Jan 25, 1985

M. Bérubé, C.S. Bruce



HOYLE GOLD MINES LIMITED
 WHITNEY & CODY TOWNSHIPS
 AUGUST, 1972 - G.K.POLK

SUMMARY

During 1984, Falconbridge Ltd realized an aggressive exploration program on its HOYLE property in Whitney and Cody Townships, Ontario. This property is located east of the main Pamour Porcupine Mines property in the Timmins gold camp.

The program started with a systematic geological, litho-geochemical and geophysical (Mag., Gradient, VLF and IP) coverage of the 36 claims-property, along newly cut lines. Also, a pyrite-rich shear zone was mechanically stripped and sampled along a distance of 800 feet without returning any significant gold values. This was followed by a diamond drill campaign aggregating 15 holes or 8526 feet. The total cost of this realization amounted to 221,654\$, 62% of which was charged to the diamond drilling, 18% to geophysics and 17% to geology.

Seven of the first nine holes drilled to explain IP anomalies cut graphite and/or barren sulphides. The other two remained unexplained. Then two holes were bored 1600 feet apart to investigate an area which, based on geophysics, was interpreted as favorable for gold structures.

Three holes two hundred feet apart cut ore grade intersection:

608-12	0.29oz Au/t	across	18.7 feet
608-14	0.62oz Au/t	across	6.8 feet
608-15	0.25oz Au/t	across	14.0 feet

Additional other lower grade intersections were intersected by these holes.

Most of these intersections are related to a 100-foot wide quartzite (arenite) formation hosted in less brittle greywackes and argillites. The overturned quartzite formation lies stratigraphically about 600 feet above or south of conglomerate bed along the unconformable contact between the sedimentary Porcupine Group and the volcanic Tisdale Group. This conglomerate marker which thickens up to 150 feet westward, hosts

the bulk of the ore mined by Pamour on its property and on the western portion of the Hoyle property, one mile west of the recent intersections. The gold-bearing role played by the more brittle conglomerate westward may have been transferred to the quartzite, eastward, where the conglomerate is very thin or absent.

A 10,000 foot diamond drill program scheduled for next March is highly recommended to better define the attitudes of the mineralized structures as well as to build a mineral inventory. As illustrated on the annexed longitudinal sections and listed in the recommendations, the first 6500 feet of drilling is intended to pursue the first tier of hole at 500 foot depth, followed by a second tier at 300 foot depth and a third one at 700 foot depth so as to pierce the quartzite at 200 foot centres. The other 3500 feet of drilling are reserved for fill-in holes, to be drilled in quincunx, wherever needed.

The cost of this recommend program is estimated at 200,000\$

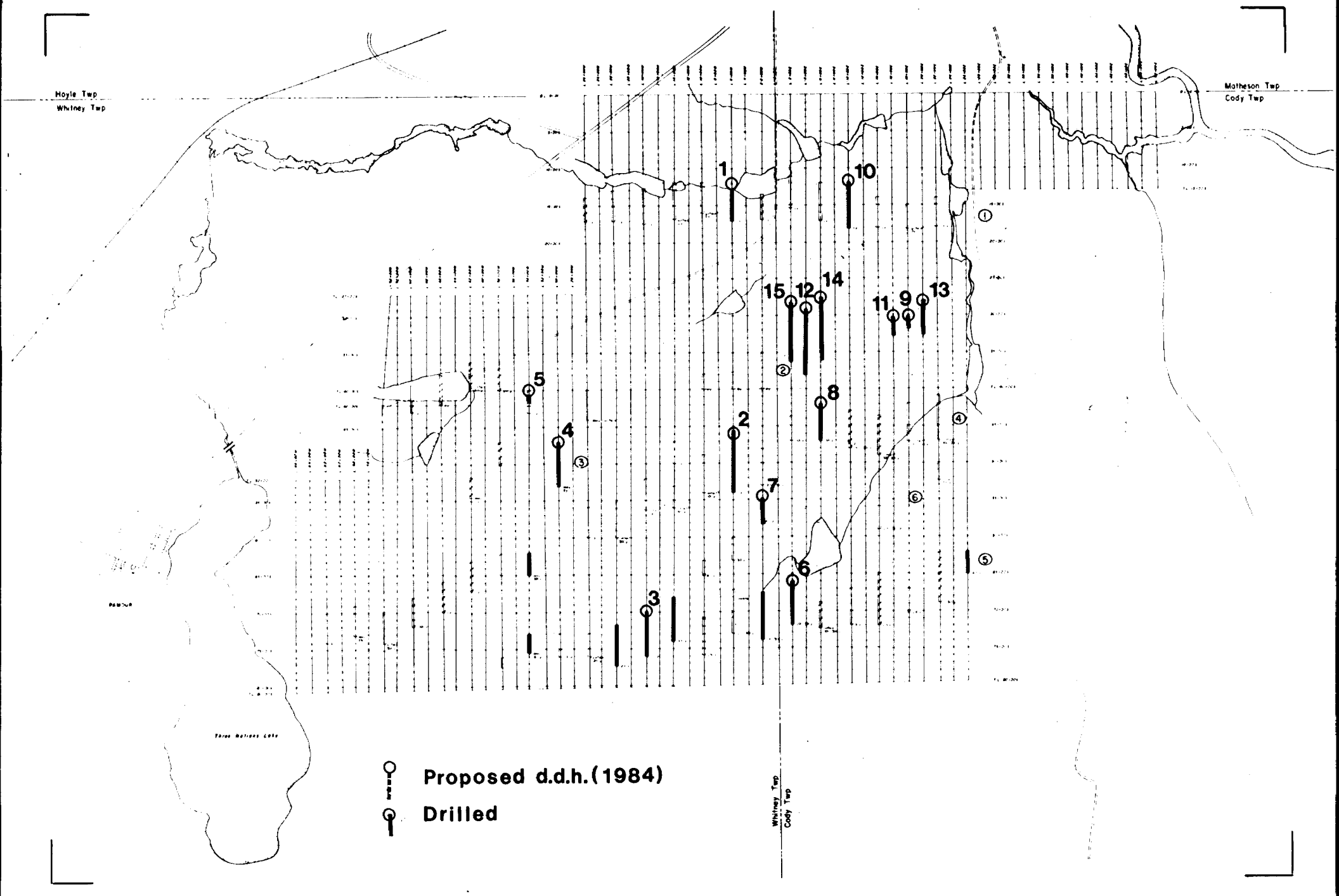
Hoyle Twp
Whitney Twp

Matheson Twp
Cody Twp

Three Nations Lake

○ Proposed d.d.h. (1984)
○ Drilled

Whitney Twp
Cody Twp



Moyle Tap
Whitney Tap

Whitney Tap
Moyle Tap



REMOVAL

Farm Belongs L&L

Whitney Tap
Coaly Tap

- < 100
- 100-200
- 200-300
- > 300

MAGNETIC CONTOURS
FALCONBRIDGE LIMITED
PIN - 608
MOYLE PROPERTY

1/2000

TABLE



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INTRODUCTION

The purpose of this report is to review the 1984 drill-program. The following is a summary of all the work performed on the project during 1984:

1. Linecutting (lines 200 feet apart):
66.8 miles by Exploration Colinex.
2. Gradiometre and magnetometer surveys:
63.3 miles of each by Geola Ltd.
3. IP survey (frequency domain):
36.9 miles by Rémi Bélanger Enrg.
(400' spacing, 200' dipole).
4. Outcrop research and outlining:
63.3 miles by a technician crew.
5. Roch geochemical survey:
104 samples taken by the technician crew and assayed by
X-Ray Assay Lab.
6. Geological Mapping:
outeroping areas mapped at 1"=100'.
7. Research and compilation of documents:
contracted in Quebec City.
8. Stripping and Sampling Program:
pyrite vein mechanically stripped for 800 feet.
9. Diamond Drill Program:
15 holes or 8526 feet drilled by Dominik Diamond
Drilling.

Fifteen holes for a total 8526' were drilled between Oct. 13th and Dec. 17th, 1984. Drilling was done by Dominik Diamond Drilling of Timmins, Ontario. The core is being stored at Falconbridge's Timmins warehouse facility.

DIAMOND DRILL SUMMARY PN-608/1984

TABLE 1

D.D.H. DEPTH	STARTED STOPPED	LOCATION COLLAR	AZIMUTH DIP	CASING STATUS	HIGHLIGHTS OZ AU/TON
608-1 477'	Oct.17/84 Oct.18/84	L-6+00W P-12+00S	180 /50	108' Left	Target Explained Graphite
608-2 700'	Oct.24/84 Oct.28/84	L-6+00W P-46+00S	180 /50	52' Pulled	Target explained? Pyrrh and pyrite?
608-3 537'	Nov.18/84 Nov.23/84	L-18+00W P-70+00S	180 /50	170' Pulled	Target explained Graphite
608-4 706'	Oct.17/84 Oct.19/84	L-30+00W P-47+00S	180 /50	42' Left	Target explained Pyrrhotite
608-5 290'	Oct.13/84 Oct.16/84	L-34+00W P-40+00S	180 /50	54' Pulled	Target not explained Fault?
608-6 477'	Nov.05/84 Nov.09/84	L-2+00E P-65+50S	180 /50	124' Pulled	Target explained Graphite
608-7 467'	Oct.29/84 Nov.02/84	L-2+00W P-54+50S	180 /50	142' Pulled	Target not explained Clay minerals?
608-8 494'	Nov.13/84 Nov.16/84	L-6+00E P-42+00S	180 /50	76' Pulled	Target explained Pyrrhotite
608-9 297'	Nov.09/84 Nov.12/84	L-18+00E P-30+00S	180 /50	74' Pulled	18.5' of 0.09
608-10 377'	Oct.19/84 Oct.24/84	L-10+00E P-12+00S	180 /50	82' Pulled	Target explained Graphite
608-11 334'	Nov.27/84 Nov.28/84	L-16+00E P-30+00S	180 /50	60' Cemented	Low gold values
608-12 987'	Nov.28/84 Déc.03/84	L-4+00E p-29+00S	180 /50	104' Left	8.4' of 0.192 4.1' of 0.062 8.9' of 0.077 18.7' of 0.288
608-13 521'	Déc.04/84 Déc.06/84	L-20+00E P-28+00S	180 /50	44' Left	4.1' of 0.06
608-14 977'	Déc.08/84 Déc.12/84	L-6+00E P-27+50S	180 /50	120' Left	6.9' of 0.08 4.9' of 0.067 5.8' of 0.108 6.8' of 0.615 7.5' of 0.106
608-15 885'	Déc.13/84 Déc.17/84	L-2+00E P-28+50S	180 /50	120' Left	14.0' of 0.25 15.8' of 0.109

TOTAL 8526' in 15 holes

Table 1, provides a summary of the diamond drill program; the results of which are also included. Locations for the holes also appear on the geological compilation map (scale: 1 to 5000) in pocket. Diamond drill logs and sections are included within this report as an appendix.

LOCATION AND ACCES OF PROPERTY

The property is located fourteen miles east of Timmins. Highway 101 crosses the northwest corner of the property from which a quarter mile all weather road extends into the mine site. An abandoned gravel highway traverses the property from east to west. The main Pamour Porcupine Mine and mill are located on the adjacent property to the west and the Kidd Creek smelter is located on the adjacent property to the North.

LOCAL GEOLOGY

The main geological formations observed on outcrops and known from diamond drilling are outlined on the annexed compilation map 1:5000 and explained in its legend. A more detailed description of the geology will appear on another paper in preparation.

SUMMARY OF EACH HOLE

D.D.H 608-1:

This hole was designed to test a strong IP anomaly. The anomaly crosses the property near the upper contact of the Tisdale volcanics, conformably overlain by Porcupine group sediments. The hole encountered largely greywackes (turbiditic type sediments). A graphitic zone was encountered. However, no significant gold results were returned. The IP conductor is caused by this graphite zone.

D.D.H. 608-2:

This hole was drilled to test a broad, weak to moderate IP anomaly, within the Three Nations Lake Formation. Predominantly, interbedded lithic arenites and pebbly conglomeratic arenites, were encountered within this hole. It also encountered the contact of the ultramafics, peridotitic komatiites associated with the "Destor Porcupine Fault" zone.

The fault is characterized by altered peridotitic komatiites, talc, carbonate and altered serpentine. Fine grained disseminated pyrrhotite and pyrite within the arenites explain the weak IP anomaly, but failed to return significant gold values.

D.D.H. 608-3:

This hole was drilled to test an IP anomaly south of the "Destor Porcupine Fault" zone. The hole was located within the Whitney formation of the Porcupine group sediments. The core consists largely of silstone, interlayered intermediate to mafic tuffs, with minor black shales and graphitic sediments. The hole failed to penetrate any sulphides and the IP anomaly is explained by the graphitic sediments. However, no significant gold results were returned.

D.D.H. 608-4:

This hole was designed to test a weak IP anomaly within the Three Nations Lake Formation. Predominantly interbedded lithic arenites, quartz arenites, sublithic arenites and a minor conglomeratic unit were encountered within this hole. The hole failed to return any significant gold values, and the IP effect is assumed to be related to fine grained pyrrhotite in crossbedding, within the arenites.

D.D.H. 608-5:

This hole was designed to test a prominent IP anomaly, with a coincident magnetic high. Largely, an interbedded turbiditic sequence of silstones and greywackes was encountered.

The hole failed to penetrate any sulphides. The IP effect is thought to be possibly related to a strongly magnetic, north-northeast trending diabase dyke, located immediately to the west. Where in sufficient concentration, magnetite associated with the diabase could possibly account for this anomaly.

D.D.H.-608-6:

This hole was drilled to test an IP anomaly south of the "Destor Porcupine Fault" zone. The hole was located within the Whitney formation of the Porcupine group sediments. The core consisting largely of siltstone, interlayered intermediate to mafic tuffs, with minor black shales and graphitic sediments. The hole failed to penetrate any sulphides and the IP anomaly is assumed to be related to the black shales and graphitic sediments. However, no significant gold results were returned.

D.D.H. 608-7:

This hole was designed to test an IP anomaly within the "Destor Porcupine Fault" zone. It encountered largely altered ultramafic komatiites and basaltic komatiites. The fault zone is characterized by serpentine, with highly altered talc and carbonate sections derived from the ultramafic.

D.D.H. 608-7 (cont'd):

The IP anomaly is a resistivity low, thought to be the effect of clay minerals within the fault, combined with the contact effect raised by the fault zone/basaltic komatiite interface. The hole failed to penetrate any sulphide or significant gold values.

D.D.H. 608-8:

This hole was designed to test a weak IP anomaly within the Three Nations Lake Formation. Predominantly interbedded lithic arenites, quartz arenites, sublithic arenites and a minor conglomeratic unit were encountered within this hole. The hole failed to return any significant gold values, and the IP effect is assumed to be related to fine grained pyrrhotite in crossbedding, within the arenites.

D.D.H. 608-9:

Hole 608-9 was located on line L18+00E, 30+00S and drilled to a depth of 297'.

This hole was designed to test a wider band of the Porcupine group at proximity of the diabase dyke, close to the eastern boundary. Line 18+00E was chosen because of a very doubtful IP anomaly on this line. This hole encountered largely a turbiditic sequence of greywackes, silstones and sublithic arenites (protoquartzite).

One weakly silicified mineralized zone was encountered (from 180.6'-208.9') at the contact between the turbidites and the sublithic arenites. It contained quartz stringers, sericite, fine grained disseminated pyrite and arsenopyrite with distinct arsenopyrite needles and significant gold values. The hole returned 18.5' of 0.09 oz/ton.

D.D.H. 608-10:

This hole was designed to test a strong IP anomaly, the same anomaly previously tested by hole 608-1, located 1600' to the west. The hole encountered the same graphitic unit and again this hole failed to return any significant gold values.

D.D.H. 608-11, 608-13:

Two short holes were drilled to bracket the ore bearing structure from hole 608-9, where gold values were encountered in a well defined silicified altered zone at the contact between the turbidites and a sublithic arenite (protoquartzite) unit. Subsequent drilling of hole 608-13 intersected the same zone and returned 0.06 oz Au/ton over 4.1 feet. The intersection is characterized by quartz stringers, sericite, arsenopyrite and pyrite within the sublithic arenite near the contact of the turbidites. Hole 608-11, returned only low values, although still favourable. These encouraging intersections, warrant follow-up in this area.

D.D.H. 608-12:

Hole 608-12, was located on line 4+00E at 30+00S and drilled to a depth of 987 feet.

This hole was designed to test on area where the favorable sedimentary and volcanic unconformity seemed traversed by an important cross-fault, indicated by a north-south break in formations on the magnetic contour map and by a deep sub-surface valley on the resistivity profiles. The hole encountered largely turbiditic sediments with an interlayered sublithic arenite unit. Four intersections within the hole returned 8.4' of 0.192 oz Au/ton, 4.1' of 0.062 oz/ton, 8.6' of 0.077 oz/ton and 18.7' of 0.288 oz'/ton.

These intersections are characterized by quartz stringers, altered sericite, fuchsite, fine grained arsenopyrite and pyrite, with distinct arsenopyrite needles.

Subsequently, two holes were drilled to bracket the ore bearing intersections from hole 608-12.

D.D.H. 608-14:

Hole 608-14, was located on line 6+00E, 27+50S and drilled to a depth of 977 feet.

The hole encountered largely a turbiditic sequence of sediments with an interbedded sublithic arenite unit, unconformably overlying carbonated tholeiite volcanics. Significant gold values were again intersected which returned 0.08 oz/ton over 6.9, 0.067 oz/ton over 4.9', 0.108 oz/ton over 5.8', 0.165 oz/ton over 6.8' and 0.106 oz/ton over 7.5'. Interesting values were also obtained elsewhere.

D.D.H. 608-15:

Hole 608-15, was located at line 2+00E at 28+50S and drilled to a depth of 885 feet.

Again, the hole encountered a turbiditic sequence of sediments with and interbedded sublithic arenite unit, overlying carbonated volcanics. Significant gold values were obtained, returning 14.0 feet of 0.25 oz/ton and 0.109 oz/ton over 15.8 feet. Interesting values were also obtained elsewhere.

CONCLUSION

The last five of the 15 diamond drill hole returned the many very encouraging gold intersections tabulated below:

<u>HOLE NO.</u>	<u>FOOTAGE</u>		<u>LENGTH</u> FEET	<u>OZ AU/TON</u>
	FROM	TO		
608-9	185.6'	203.9'	18.5'	0.09
608-12	134.7'	142.1'	8.4'	0.192
	396.3'	400.4'	4.1'	0.062
	648.0'	656.9'	8.9'	0.077
	712.0'	730.7'	18.7'	0.288
608-13	341.9'	346.0'	4.1'	0.06
608-14	284.0'	290.9'	6.9'	0.08
	296.5'	301.4'	4.9'	0.067
	767.7'	773.0'	5.8'	0.108
	801.1'	807.9'	6.8'	0.615
	830.2'	837.7'	7.5'	0.106
608-15	759.5'	773.5'	14.0'	0.25
	861.4'	877.2'	15.8'	0.109

Most of these gold intersections constitute good marker well defined by a sericitized and mineralized zone envelopping about 50% grey quartz veins or stringers. The mineralization in the sericitized walls is composed of about 1% fine pyrite and arsenopyrite needles. Most intersections are spatially related to the quartzite but their attitude are not well known yet although they are thought to cross-cut both the dip and the

direction of the quartzite. This problem should be elucidated during the next drilling campaign.

RECOMMENDATIONS

The proposed diamond drill holes (6500'0) listed below and also shown on 2 folded plan and longitudinal section annexed herewith are intended to build a mineral inventory and to determine the attitude and the continuity of the gold-bearing structures. This way, the quartzite bed will be probed at 200 foot centres along a length of 1000 feet and a depth of 600 to 800 feet.

HOLE NO	COORDINATES		DIP/AZIMUTH °/°	LENGTH FEET
	E	S		
608-16	L-0E	33+50S	-50°/180°	500'
608-17	L-2E	33+00S	-50°/180°	500'
208-18	L-4E	32+50S	-50°/180°	500'
608-19	L-6E	32+00S	-50°/180°	500'
608-20	L-8E	31+50S	-50°/180°	500'
608-21	L-0E	29+00S	-50°/180°	1000'
608-22	L-8E	27+00S	-50°/180°	1000'
608-23	L-2W	34+00S	-50°/180°	500'
608-24	L-4E	25+00S	-50°/180°	1500'
TOTAL				6500'

It is believed that intermediate holes to be drilled in quincunx will be required, at least locally, if not systematically. A provision of 3500 feet is added for this purpose.

The total cost of the first diamond drill campaign in 1985 is estimated to 200,000\$.

C.S. Bruce, geologist

Magloire Bérubé, P. Eng.

Magloire Bérubé, P.Eng.

January 25, 1985

APPENDIX

- a) Folded plan and logitudinal section of proposed holes
- b) 15 diamond drill logs
- c) 12 drilling section 1:1200)
- d) 3 drilling section (1:500)
- e) Geological compilation map- Hoyle Property (1:5000)

REFERENCES:

- 1) Hoyle Project:
Pseudo-Sections of Induced Polarisation,
n=1-5, x=200'
- 2) Ontario Geological Survey Report 219
Geology of the Timmins Area 1982
D. R. Pyke
- 3) Hoyle Gold Mines Ltd.
Geological Report
M. J. Knoukey, November 21st, 1972
- 4) Memorandum, January 17, 1983
C. M. H. Jennings . Update of Hoyle
- 5) Notes and map by Maurice Séguin, geophysicist,
on the interpretation of the IP results.

HOYLE PROPERTY
CODY & WHITNEY T.W.P.S.
DIAMOND DRILLING PROGRAM

STAGE 1

A) Priority 182

D.D.H. NUMBER	STARTED	STOPPED	LOCATION	AZIMUTH / (IN DEGREES)	DIP (IN DEGREES)	LENGTH (FEET)	COMMENTS	CASING
608-1-84	Oct. 17/84	Oct. 18/84	6+00W 12+00S	180°	-50°	500'	Completed 477'	Left
608-2-84	Oct. 24/84	Oct. 28/84	6+00W 46+00S	180°	-50°	700'	Completed 700'	Pulled
608-3-84	Nov. 17/84	Nov. 23/84	18+00W 70+00S	180°	-50°	600'	Completed 537'	Pulled
608-4-84	Oct. 17/84	Oct. 19/84	30+00W 47+00S	180°	-50°	700'	Completed 706'	Left
608-5-84	Oct. 13/84	Oct. 16/84	34+00W 40+00S	180°	-50°	300'	Completed 290'	Pulled
608-6-84	Nov. 5/84	Nov. 9/84	2+00E 65+50S	180°	-50°	500'	Completed 477'	Pulled
608-7-84	Oct. 29/84	Nov. 2/84	2+00W 54+50S	180°	-50°	500'	Completed 467'	Pulled
608-8-84	Nov. 13/84	Nov. 16/84	6+00E 42+00S	180°	-50°	500'	Completed 494'	Pulled
608-9-84	Nov. 9/84	Nov. 12/84	18+00E 30+00S	180°	-50°	300'	Completed 297'	Pulled
608-10-84	Oct. 19/84	Oct. 24/84	10+00E 12+00S	180°	-50°	500'	Completed 377'	Pulled

B) STAGE 2

D.D.H. NUMBER	STARTED	STOPPED	LOCATION	AZIMUTH (IN DEGREES)	/ DIP (IN DEGREES)	LENGTH (FEET)	COMMENTS	CASING
608-11-84	Nov. 27/84	Nov. 28/84	16+00E 30+00S	180 ^o	-50 ^o		Completed 334'	Cemented
608-12-84	Nov. 28/84	Dec. 3/84	4+00E 29+00S	180 ^o	-50 ^o		Completed 987'	Left
608-13-84	Dec. 4/84	Dec. 6/84	20+00E 28+00S	180 ^o	-50 ^o		Completed 521'	Left
608-14-84	Dec. 8/84	Dec. 12/84	6+00E 27+50S	180 ^o	-50 ^o		Completed 977'	Left
608-15-84	Dec. 13/84	Dec. 17/84	2+00E 28+50S	180 ^o	-50 ^o		Completed 885'	Left

Falconbridge Ltd.

HOLE NO: 608-1-84

PAGE: 1 of 2

Drilled by: Dominik Diamond Drilling
 Started: Oct. 17/84
 Ended: Oct. 18/84

Property: Hoyle
 Township: Whitney Twp.
 Logged by: C. S. Bruce

Latitude: I6+00W 12+00S
 Azimuth: 180°
 Élévation:

Longitude:
 Dip: -50° collar 200' 47° corr
 Length: 477' 400' 45° corr
 (AQ)

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppb) (Split)	Au (ppb) (Composite)
0	108'	Casing						
108'	115'	Grind, no recovery						
115'	309'	<u>Greywacke</u> Lithic greywacke, medium to coarse grained 0.2-0.5mm, bedded sequence, pale grey colour, relatively hard. Distinct lithic fragments, metavolcanics generally 1-2mm, 15% matrix. Thin interbedded siltstones and slates, fine grained dark grey. Bedding 80° to core axis. Pervasive carbonate, little or no sulphides. (composite) 158' - 162' Possible fault 158' - 159' Brecciated, fragments, carbonate infilling. 159' - 162' Grind, no recovery	8003 (C)	115'	309'	194'		<2
309'	342'	<u>Argillites</u> Siltstones, highly disrupted contorted bedding, slumping, soft sediment structures, ball structures fine grained, black grey, pervasive chlorite and carbonate. (composite)	8004 (C)	309'	342'	33'		<2
342'	348'	<u>Graphitic Sediment</u> Black dark graphite, minor sulphides as disseminated pyrite, less than 0.5% . (split) 346' 347' Grind, no recovery	5004 (S)	342'	348'	6'	Nil	
348'	355'	<u>Sheared Tuff or Argillite</u> Pale green colour, slightly carbonated fine textured with crude banding, streaky fuzzy black patches. Leached gossan, porous fractures, possible fault 4 small 1-2 cm grey quartz fracture veinlets, fine grained disseminated sulphide. 1-2% pyrite.	5005 (S)	348'	355'	7'	10	

Falconbridge Ltd.

HOLE NO. 608-1-84

PAGE: 2 of 2

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppb) (Split)	Au (ppb) (Composite)
355'	366'	<u>Greywacke</u> Reverts to a fine-medium grained grey-pale green colour. Highly carbonatized, blotchy appearance. Little or no sulphides. (composite)	8005 (C)	355'	477'	122'		< 2
366'	477'	<u>Tuffwacke</u> Pale green grey, massive appearance, dense tuff? possible volcanic fine-medium grained textured about 0.5mm. Blotchy appearance, very wealthy to moderately carbonate. Little or no sulphides. Occasional black grey material.						
477'		END OF HOLE Remarks: Casing left in hole.						

Falconbridge Ltd.

HOLE NO: 608-2-84

PAGE 1 of 3

Drilled by: Dominik Diamond Drilling
 Started: Oct. 24/84
 Ended: Oct. 28/84

Property: Hoyle
 Township: Whitney Twp.
 Logged by: C. S. Bruce

Latitude: 1.6+00W/46+00S
 Azimuth: 180°
 Elevation:

Longitude:
 Dip: -50° collar 200' 45° corr
 Length: 700' 400' 42° corr
 (AO) 700' 42° corr

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	LENGTH	Au (ppb) (Split)	Au (ppb) (Composite)
0	52'	Casing						
52'	73.7'	<u>Conglomerate</u> Polymictic granular to pebbles size, fragments 40%, range from 0.5 - 10cm, average 2cm. Subrounded to rounded, with curvilinear ultramafic clastic. Generally buff grey siltstone clastic with felsic volcanic, fuchsitic, ultramafic clasts, with the odd quartz pebbles clastic. Little or no sulphides. (composite)	8028 (C)	52'	73.7'	21.7'		16
73.7'	195.7'	<u>Interbedded Pebbly Conglomeratic Lithic Arenites and Lithic Arenites</u> Conglomeratic unit with interbedded lithic arenite, generally gradational, average 30%. Polymictic granular to pebble size fragments range from 0.5 - 10cm, average 2cm. Subrounded to rounded with curvilinear ultramafic clastic. Generally siltstone clasts with felsic volcanic fuchsitic ultramafic clasts with the odd quartz pebble clasts. Interlayered lithic arenites (subgreywacke), generally gradational contacts. Medium grained light grey colour, contains distinct 3% - 5%, fuchsitic ultramafic, siltstone and volcanic clasts, with the odd quartz pebble 5mm - 10cm, subrounded. Weakly carbonate. Distinct bedding at 60° to core axis, with possible crossbedding. Little or no sulphides. (composite)	8029 (C) 8030 (C)	73.7' 125'	125' 171.1'	51.3' 46.1'		8 54
		171.1' - 173.8' Quartz vein, irregular, silicified with fragments, minor sulphides, weakly carbonate, minor pyrite along contact 0.5%. (split)	5014 (S) 8031 (C)	171.1' 173.8'	173.8' 195.7'	2.7' 21.9'	910	130

Falconbridge Ltd.

HOLE NO: 608-2-84

PAGE: 2 of 3

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppb) (Split)	Au (ppb) (Composite)
195.7'	229.2'	<u>Lithic Arenite</u> (Subgreywacke) medium grained, grey colour, gradational contacts, contains distinct siltstone, fuchsitic ultramafics clasts with the odd quartz pebble, subrounded. Distinctly bedded at 60° to core axis. Little or no sulphides. Moderately carbonate. (composite) Gradational between a lithic arenite and lithic wacke.	8032 (C)	195.7'	229.2'	33.5'		11
229.2'	314.6'	<u>Interbedded Pebbly Conglomeratic Lithic Arenites and Lithic Arenites</u> Same as 73.7' - 195.7' grey colour strongly carbonatized blotchy, appearance. (composite)	8033 (C) 8034 (C)	229.2' 275'	275' 314.6'	45.8' 39.6'		72 3
314.6'	341.7'	<u>Lithic Wacke</u> Same as 195.7' - 229.2' grey, moderately carbonated, (composite) Odd quartz veinlet filling fracture.	8035 (C)	314.6'	341.7'	27.1'		40
341.7'	443.3'	<u>Interbedded Pebbly Conglomeratic Lithic Arenites and Lithic Arenites</u> Same as 73.7' - 195.7' possible weakly sheared. Increased conglomeratic units. 409.7' - 416.7' Pervasive strongly blotchy carbonate. (composite)	8036 (C) 8037 (C)	341.7' 400'	400' 443.3'	58.3' 43.3'		7 2
443.3'	524.2'	<u>Lithic Wacke</u> Same as 195.7' - 229.2' dark grey medium-fine grained, odd irregular quartz veinlet, minor sulphides fine grained disseminated pyrite 0.5%. (composite) 519.2 - 524.2' 1% pyrite (split)	8038 (C) 5015 (S)	443.3' 519.2'	519.2' 524.2'	75.9' 5'	Nil	53
524.2'	550.6'	<u>Sublithic Arenite</u> (Protoquartzite) Gradation between sublithic arenite and quartz arenite, buff light grey, bleached, medium-coarse grained, odd fragment and quartz pebble. Distinct green crystal possibly pyroxenes 5%, minor sulphide 0.5% - 1.0%. Contact at 60° to core axis. (composite)	5016 (S) 8039 (C)	524.2' 534.2'	534.2' 550.6'	10' 16.4'	Nil	3

Falconbridge Ltd.

HOLE NO. 608-3-84

PAGE 1 of 2

Drilled by: Dominik Diamond Drilling
 Started: Nov. 17/84
 Ended: Nov. 23/84

Property: Hoyle
 Township: Whitney Twp.
 Logged by: C. S. Bruce

Latitude: L18+00W/70+00S
 Azimuth: 180°
 Elevation:

Longitude:
 Dip: -50° collar 170' 47° core
 Length: 537' 400' 42° core

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppb) (Split)	Au (ppb) (Composite)
0	170'	Casing						
170'	193'	<u>Argillites Interbedded Greywackes</u> Largely siltstones, grey to dark grey, interbedded with feldspathic greywacke and possible tuffwackes, medium-fine grained. Generally uniformly bedded at 80° to core axis. Graded bed, suggesting younging direction down hole. Minor interlayered graphitic sediments. Little or no sulphides. Pervasive, strongly carbonatized. (composite)	8072 (C)	170'	187.3'	17.3'		8
		187.3' - 193' 40% interlayered graphitic sediments, dark black graphite. (composite)	8073 (C)	187.3'	193'	5.7'		18
193'	278'	<u>Intermediate to Mafic Tuffs</u> Pale green colour, highly carbonatized fine texture, thinly bedded, varying between pale green, buff carbonate, uniformly bedded at 80° to core axis. Interlayered with minor fine grained siltstones, possible tuffwackes, grey colour. Little or no sulphides. (composite)	8074 (C)	193'	278'	85'		5
278'	289.3'	<u>Lithic Wacke</u> Pale grey, massive, possible feldspathic greywacke, medium grained, pervasive strong, carbonatization. Little or no sulphides. (composite)	8075 (C)	278'	289.3'	11.3'		<2
289.3'	293.9'	<u>Graphitic Sediment</u> Largely graphite, dark black, with graphitic black shale, siltstone. Strongly magnetic. Minor 1% disseminated pyrite (composite) 289.3' - 289.7' Gossan pyritic, 5% fine grained disseminated pyrite. (composite)	5027 (C)* 8076 (C)	289.3' 289.7'	289.7' 293.9'	0.4' 4.2'		13 7

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HOLE NO: 608-3-84

PAGE: 2 of 2

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	LENGTH	Au (ppb) (Split)	Au (ppb) (Composite)
293.9'	300'	<u>Intermediate to Mafic Tuffs</u> Same as 193' - 278' (composite) Possible water laid tuff, tuffwacke.	8077 (C)	293.9'	300'	6.1'		5
300'	445'	<u>Argillites Interbedded Greywackes</u> Largely siltstones, slates, graphitic black shales. Interlayered with minor feldspathic greywackes, grey massive medium to fine grained, possible tuffwackes. Moderately to weakly magnetic, with the odd distinct graphite bed. Bedding is uniformly bedded at 80° to core axis. Little or no sulphides. Pervasive carbonatization. Younging direction, from graded bedding is contradictory but evidence suggests down hole. (composite)	8078 (C) 8079 (C) 8080 (C) 8081 (C)	300' 323.4' 375.8' 412.8'	322.2' 375.3' 412.2' 445'	22.2' 51.9' 36.4' 32.8		3 5 160 9
		322.2' - 323.4' Massive, bull milky quartz vein	5028 (S)	322.2'	323.4'	1.2'	10	
		334.4' - 334.9' " " " " "	5031 (S)	334.4'	334.9'	.5'	Nil	
		375.3' - 375.8' " " " " "	5029 (S)	375.3'	375.8'	.5'	10	
		412.2' - 412.8' " " " " "	5030 (S)	412.2'	412.8'	.6'	10	
445'	537'	<u>Intermediate to Mafic Tuff</u> Same as 193' - 278', bedding varying between 80° - 90° to core axis, pale dense green, strongly carbonatized. (composite)	8082 (C) 8083 (C)	445' 500'	500' 537'	55' 37'		5 <2
537'		END OF HOLE Remarks: Casing pulled.						

Falconbridge Ltd.

HOLE NO: 608-4-84

PAGE: 1 of 2

Drilled by: Dominik Diamond Drilling

Property: Hoyle

Latitude: L30+00W/47+00S

Longitude:

Started: Oct. 17/84

Township: Whitney Twp.

Azimuth: 180°

Dip: -50° collar 200' 47° corr

Ended: Oct. 19/84

Logged by: C. S. Bruce

Élévation:

Length: 706' 400' 47° corr
600' 45° corr

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppb) (Split)	Au (ppb) (AQ) (Composite)
0	42'	Casing						
42'	52'	<u>Argillite</u> Interbedded siltstone and slates, fine grained, silt material, dark grey, alternating beds. Well bedded 65° to core axis. Odd lithic fragment. (composite)	8006 (C)	42'	52'	10'		4
52'	57'	<u>Conglomerate</u> Polymictic 40%, granular to pebbles size, subangular to rounded curvilinear clasts, buff grey siltstone, odd felsic volcanic and fuchsitic ultramafic clasts. Coarse grained cemented quartz matrix. Contact at 65° to core axis. (composite)	8007 (C)	52'	57'	5'		<2
57'	226.3'	<u>Lithic Arenite</u> (Subgreywacke) Coarse to medium grained, grey colour. Less than 15% matrix. Gradational between lithic arenite and sublithic arenite. Distinct bedding and crossbedding, defined by fine grained pyrrhotite 1-2mm thick <1%, bedding at 50° to core axis. Distinct siltstone fuchsitic ultramafic curvilinear clasts 1-5 cm with the odd, volcanic clast, and quartz pebble. (composite)	8008 (C) 8009 (C) 8010 (C)	57' 106' 156'	106' 156' 226.3'	49' 50' 70.3'		5 2 10
226.3'	360'	<u>Quartz Arenite</u> (Quartzite) Coarse grained, light grey white lustre, 95% quartz, fine grained matrix. Distinct cross bedding and bedding, defined by fine grained massive pyrrhotite, pyrite 1-2mm thick, bedding 70° to core axis. The odd distinct fuchsitic ultramafic curvilinear clastic, volcanic clast, and quartz pebble. (composite)						

Falconbridge Ltd.

HOLE NO: 608-4-84

PAGE: 2 of 2

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppb) (Split)	Au (ppb) (Composite)			
360'	549'	295' - 360' Distinct bedding and crossbedding, defined by pyrrhotite and pyrite, with <1% disseminated fine grained sulphides, pyrrhotite and pyrite. Overall 1-2%.	8011 (C)	226.3'	295'	68.7'		9			
			5006 (S)	295'	300'	5'	Nil				
			8012 (C)	300'	321'	21'		6			
			5007 (S)	321'	326'	5'	10				
			8013 (C)	326'	358.5'	32.5'		22			
			5008 (S)	358.5'	359'	0.5'	1220				
549'	706'	358.5' - 359.5' Two 5-10cm quartz veins 60° to core axis. 1% fine grained pyrrhotite, pyrite and black tourmaline. <u>Sublithic Arenite</u> (Protoquartzite) Gradational between sublithic arenite and a lithic arenite. Coarse-medium grained, grey to buff grey. Distinct siltstone fuchsitic ultramafic, porphyritic volcanic clasts, odd quartz pebble. Minor disseminated sulphides. Odd quartz tourmaline vein 45° - 90° to core axis. (composite)	8014 (C)	360'	400'	40'		24			
			8015 (C)	400'	450'	50'		33			
			8016 (C)	450'	500'	50'		31			
			8017 (C)	500'	549'	49'		170			
			549'	706'	484' - 489' Pebble conglomerate, increased fuchsitic, porphyritic volcanic clasts and quartz pebbles, less than 1% fine grained disseminated sulphides. 527' - 533' Pebble conglomerate, same as 484' - 489' <u>Lithic Arenite</u> (Subgreywacke) Gradational between lithic arenite and lithic wacke, medium grained, dark grey. Distinct siltstone fuchsitic ultramafic and volcanic clasts, odd quartz pebble, minor disseminated sulphide, pyrrhotite and pyrite. Weak to distinctly bedded 70° to core axis. (composite)	8018 (C)	549'	566'	17'		59
						5009 (S)	566'	576'	10'	50	
						5010 (S)	576'	586'	10'	260	
						8019 (C)	586'	606'	20'		<2
						8020 (C)	606'	656'	50'		13
						8021 (C)	656'	706'	50'		16
706'		END OF HOLE Remarks: Casing left in hole.									

Falconbridge Ltd.

HOLE NO: 608-5-84

PAGE: 1 of 1

Drilled by: Dominik Diamond Drilling
 Started: Oct. 13/84
 Ended: Oct. 16/84

Property: Hoyle
 Township: Whitney Twp.
 Logged by: C. S. Bruce

Latitude: 134+00W/40+00S
 Azimuth: 180°
 Élévation:

Longitude:
 Dip: -50°, 150' 50° corr
 Length: 290' (AQ)

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	LENGTH	Au (ppb) (Split)	Au (ppb) (Composite)
0	54'	Casing						
54'	290'	Interbedded Argillites and Greywackes Largely greywacke, pale grey colour relatively hard, fine-medium grained texture, grain size about 0.5mm bedding at 65° to core axis. Interlayered argillite, displays regular uniformed alternation of siltstones, slates, dark grey, beds 2cm, slaty well bedded with bedding 65° to core axis. Grade bedding indicates younging direction down hole. Minor, cubic pyrite cubes <0.5%.						
		90' - 96' Possibly fault	5001 (S)	86'	91'	5'	Nil	
		90' - 91' Broken core	5002 (S)	96'	99.6'	3.6'	Nil	
		91' - 96' Grind, no recovery	5003 (S)	99.6'	99.7'	0.1'	10	
		99.6' - 99.7' Quartz vein	8001 (C)	54'	151'	100'		7
			8002 (C)	151'	290'	136'		10
290'		END OF HOLE						
		Remarks: Casing Pulled.						

Falconbridge Ltd.

HOLE NO: 608-6-84

PAGE: 1 of 3

Drilled by: Dominik Diamond Drilling
 Started: Nov. 5/84
 Ended: Nov. 9/84

Property: Hoyle
 Township: Cody Twp.
 Logged by: C. S. Bruce

Latitude: L2+00E/65+70S
 Azimuth: 180°
 Élévation:

Longitude:
 Dip: -50° collar 200' 46° corr
 Length: 477' 400' 43° corr

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	LENGTH	Au (ppb) (Split)	(AQ)	Au (ppb) (Composite)
0	124'	Casing							
124'	164.8'	<u>Intermediate-Mafic Tuffs</u> Pale green colour, highly carbonatized fine textured, thinly bedded, varying between pale green and buff carbonate, uniformly bedded at 80° to core axis, soft. Little or no sulphides. (composite)	8049 (C)	124'	164.8'	40.8'			6
		130' - 137' Grind, no recovery 144' - 147' " " "							
164.8'	236.2'	<u>Argillites Interbedded Greywackes</u> Largely siltstone, dark grey to black slaty type, shales, very fine grained uniformly bedded at 80° to core axis. Grain size gradational suggesting younging down hole. Argillites are interlayered with feldspathic greywackes, grey, massive up an average of 20cm in width. Weakly magnetic, due to black shales with the odd pyrrhotite bed 1-2mm thick. Minor sulphides. (composite)	8050 (C)	164.8'	236.2'	71.4'			2
		218.5' - 219.5' Quartz vein, massive, bull milky. (split) 222' - 227' Grind, no recovery 227' - 232' 80% intermediate mafic tuffs, interbedded, dense green, highly carbonatized. Little or no sulphides.	5023 (S)	218.5'	219.5'	1'	10		
236.2'	245.6'	<u>Greywacke</u> Feldspathic greywacke, massive, light grey, medium grained. Little or no sulphides. (composite)	8051 (C)	236.2'	245.6'	9.4'			4
245.6'	322.7'	<u>Argillites Interbedded Greywackes</u> Same as 164.8' - 236.2'. Largely siltstone slates, 1-2mm thick graphitic black shales. Distinct pyrrhotite finely bedded. Moderately to weakly magnetic, minor feldspathic greywackes. (composite)	8052 (C)	245.6'	322.7'	77.1'			6

Falconbridge Ltd.

HOLE NO: 608-6-84

PAGE: 2 of 3

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppb) (Split)	Au (ppb) (Composite)
		288.6' - 290.7' 80% quartz vein, massive milky bull quartz, contacts 45° - 75° to core axis. (split)	5024 (S)	288.6'	290.7'	2.1'	Nil	
322.7'	349.0'	<u>Intermediate-Mafic Tuffs</u> Same as 124' - 164.8' (composite)	8053 (C)	322.7'	349.0'	26.3'		5
		323' - 325' Grind, no recovery						
349.0'	368.2'	<u>Argillites Interbedded Greywacke & Intermediate-Mafic Tuffs</u> Same as 164.8' - 236.2'. Largely siltstone slaty type, minor feldspathic greywacke shales interbedded, uniform, interbedded with the argillites and greywacke, minor intermediate to mafic tuffs. Distinct pyrrhotite 1-2mm finely bedded. Moderately magnetic. (composite)	8054 (C)	349.0'	368.2'	19.2'		11
		359.4' - 360.9'; 361.3' - 361.7'; 362.1' - 362.7' Intermediate-Mafic tuffs, same as 124' - 164.8'						
368.2'	386.0'	<u>Greywacke</u> Feldspathic greywacke, possible tuffwacke, minor siltstone, pale grey colour, medium fine grained, bedding 80° to core axis, thinly bedded. Little or no sulphides, weakly carbonated. (composite)	8055 (C)	368.2'	386.0'	17.8'		5
386.0'	466.8'	<u>Argillites</u> Largely black shale minor siltstone, slaty type, fine grain, black to dark grey, good bedding at 80° to core axis uniformly bedded. Graphitic, minor disseminated coarse grained pyrite <1%. Strongly magnetitic. (composite)	8056 (C)	386.0'	466.8'	80.8'		23
		396' - 397' Grind, no recovery						
		423.6' - 424' Massive milky bull quartz vein (split)	5026 (S)	423.6'	424'	.4'	Nil	Nil
		424' - 427' Grind, no recovery						
		456.1' - 459.5' Black mud, magnetitic, possible graphitic, magnetitic, no visible sulphides. (composite)*	5017 (C)*	456.1'	459.5'	3.4'		Nil
		459.5' - 463.5' Grind, no recovery						

Falconbridge Ltd.

HOLE NO: 608-6-84

PAGE: 3 of 3

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au(ppb) (Split)	Au(ppb) (Composite)
466.8'	477'	<u>Tuffwacke</u> Possible greywacke, pale green, medium-fine grained, bedding 80° to core axis, moderate carbonated. Little or no sulphides. (composite)	8057 (C)	466.8'	477'	10.2'		<2
			5025 (S)	475.1'	476.3'	1.2'	Nil	
477'		END OF HOLE						
		Remarks: Casing Pulled.						

Falconbridge Ltd.

HOLE NO: 000-7-84

PAGE: 1 of 2

 Drilled by: Dominik Diamond Drilling
 Started: Oct. 29/84
 Ended: Nov. 2/84

 Property: Hoyle
 Township: Whitney Twp.
 Logged by: C. S. Bruce

 Latitude: 12+00W/54+50S
 Azimuth: 180°
 Élévation:

 Longitude:
 Dip: -50° collar 200' 48° corr
 Length: 467' (AQ) 400' 48° corr

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	LENGTH	Au (ppb) (Split)	Au (ppb) (Composite)
0	142'	Casing						
142'	390.6'	Altered Ultramafic Komatiite, Serpentine 'Destor Porcupine' Fault zone, altered komatiite, serpentine, soft, talcy, moderately carbonated. Colour changes from dark green less altered, to chalky on highly altered talc section. Distinct talc, highly altered recrystallized section. Distinct individual komatiite flow textures with spinifex textured zone near the top, with polysuturing present but less well developed. Spinifex blades generally less than 1mm thick and are commonly 1-2cm in length. Non magnetic, no sulphides. (composite)						
		177', 218', 233', 308', Spinifex textured zones.	8043 (C)	160'	200'	40'		10
		142' - 160' 10% recovery	8044 (C)	200'	250'	50'		< 2
		160' - 166', 187' - 196', 212' - 217', 304' - 307',	8045 (C)	250'	300'	50'		9
		317' - 386', Highly altered talc section recrystallized, very soft.	8046 (C)	300'	350'	50'		3
			8047 (C)	350'	390.6'	40.6'		4
390.6'	467'	Basaltic Komatiite Basaltic Komatiite, medium-fine grained, light greenish grey, soft, distinct tremolite, possible pyroxene needles, spinifex, with the suggestion of possible pillows. Non magnetic, no sulphides. (composite)						
		397' Spinifex textured zone, pyroxene minifex.	8048 (C)	390.6'	467'	76.4'		< 2
467'		END OF HOLE						
		Remarks: Casing Pulled						

Falconbridge Ltd.

HOLE NO: 608-7-84

PAGE: 2 of 2

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppb) (Split)	Au (ppb) (Composite)
		83% recovery						
		276' - 277' Grind 1', no recovery						
		296' - 297' " 1' " "						
		303' - 307' " 4' " "						
		313' - 317' " 4' " "						
		334' - 337' " 3' " "						
		343' - 347' " 4' " "						
		355' - 357' " 2' " "						
		365' - 367' " 2' " "						
		374' - 377' " 3' " "						
		402' - 407' " 5' " "						
		409' - 411' " 2' " "						
		419' - 420' " 1' " "						
		423' - 424' " 1' " "						
		425' - 427' " 2' " "						
		428' - 431' " 3' " "						
		435' - 437' " 2' " "						
		452' - 454' " 2' " "						
		455' - 457' " 2' " "						

Falconbridge Ltd.

HOLE NO: 608-8-84

PAGE: 1 of 2

Drilled by: Dominik Diamond Drilling
 Started: Nov. 13/84
 Ended: Nov. 16/84

Property: Hoyle
 Township: Cody
 Logged by: C. S. Bruce

Latitude: L6+00E/42+00S
 Azimuth: 180°
 Élévation:

Longitude:
 Dip: -50° collar 200' 47° corr
 Length: 494' 400' 47° corr
 (AQ)

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppb) (Split)	Au (ppb) (Composite)
0	76'	Casing						
76'	281'	Lithic Arenites - Pebbly Conglomeratic Lithic Arenites Largely lithic arenites generally gradational, with minor interbedded conglomerates. Lithic arenites, medium grained, light grey colour, containing distinct up to 5% clasts, generally fuchsitic ultramafic, siltstone and volcanic clasts with the odd quartz pebbles. Clasts generally subrounded 5mm - 5cm bedding appears to be graded younging direction down hole; bedding at 60° to core axis. Rhythmic, possible turbiditic, very minor pyrite along slip, planes. Conglomeratic lithic arenites, generally polymictic granular to pebble size fragments range from 0.5-10cm, average 2cm. Subrounded to rounded. Generally felsic volcanic with siltstone and ultramafic fuchsitic clasts. Minor pyrite, <0.5%. (composite)						
	76' - 80'	Lithic arenite	8063 (C)	76'	80'	4'		<2
	80' - 89'	Pebbly conglomeratic lithic arenite matrix supported, 20% clasts, polymict	8064 (C)	80'	89'	9'		16
	89' - 128.4'	Lithic arenite	8065 (C)	89'	128.4'	39.4'		120
	128.4' - 159.8'	Lithic arenite, pebbly arenite contains fuchsitic ultramafic curvilinear clasts; siltstone and volcanic clasts up to 10% possible turbiditic deposition. Younging direction down hole.	8066 (C)	128.4'	159.8'	31.4'		<2
	159.8' - 281'	Lithic arenite, medium grained, odd fragment clast 2%.	8067 (C)	159.8'	281'	121.2'		180

Falconbridge Ltd.

HOLE NO: 608-8-84

PAGE: 2 of 2

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppb) (Split)	Au (ppb) (Composite)
281'	291'	<u>Conglomeratic - pebbly lithic arenite</u> Conglomeratic lithic arenite, generally polymictic granular to pebble size fragments range from 0.5 - 10cm average 2 cm. Subrounded to rounded. Generally felsic volcanic with siltstone and ultramafic fuchsitic clasts. Gradational between 50% - 10% clasts, interbedded with gradational medium grained lithic arenites, grey colour. Little or no sulphide. Possible bedding of 60° to core axis, possible graded with younging direction down hole. Little or no sulphides. (composite)						
		281' - 282.8', 286.7' - 288.1, 288' - 291', Conglomeratic	8068 (C)	281'	291'	10'		5
291'	371.8'	<u>Lithic Wacke</u> Lithic wacke, medium grained, dark grey colour, contained distinct clast 5% generally siltstone fuchsitic and volcanic clasts. Subrounded to subangular 5mm - 5cm. Dirty lithic arenite (subgreywacke) fine grained disseminated pyrite <1% with minor pyrite along slip planes. (composite)						
		332.3' - 335.4' Conglomeratic pebbles, lithic wacke, sample as 281' - 291'	8069 (C)	291'	371.8'	80.8'		54
371.8'	482'	<u>Conglomeratic - pebbly lithic wacke</u> Same as 281' - 291', lithic wacke. Dirty lithic arenite, (subgreywacke) (composite)	8070 (C)	371.8'	482'	110.2'		<2
482'	494'	<u>Lithic Arenite</u> Largely lithic arenite, gradation between lithic wacke and lithic arenite medium grained, light grey colour, containing the odd volcanic and siltstone clast. Little or no sulphides, <0.5% (composite)	8071 (C)	482'	494'	12'		3
494'		END OF HOLE						
		Remarks: Casing Pulled						

Falconbridge Ltd.

HOLE NO: 000-9-84

PAGE: 1 of 2

Drilled by: Dominik Diamond Drilling

Property: Hoyle

Latitude: L18+00E/30+00S

Longitude:

Started: Nov. 9/84

Township: Cody

Azimuth: 180°

Dip: -50° collar, 200' - 48° cc

Ended: Nov. 12/84

Logged by: C. S. Bruce

Élévation:

Length: 297' (AQ)

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppb) (Split)	Au (ppb) (Composite)
0	74'	Casing						
74'	180.6'	<p><u>Greywackes and Argillites (Turbidite)</u> Turbidite sequence of wackes and siltstones, lithic greywackes fine to medium grained, commonly graded, younging direction down hole, grey colour. Regular alternation of wacke (10-20cm) thick and siltstones 5-10cm, thicker bedded sequences of wacke average 1m. Siltstones, fine planer lamination including possible crossbedding. Younging direction indicated down hole throughout. Bedding at 55° - 60° to core axis. Little or no sulphides, odd cubic coarse grained pyrite cube. (composite)</p>						
		105' - 147' Broken core, gossan iron stained, possible fault zone; poor recovery.	8058 (C)	74'	105'	31'		4
		105' - 107' Grind, no recovery	8059 (C)	105'	147'	42'		7
		123' - 127' " " "	8060 (C)	147'	180.6'	33.6'		8
		132' - 137' " " "						
		141' - 142' " " "						
		144' - 147' " " "						
		171' - 177' " " "						
180.6'	208.9'	<p><u>Silicified Greywackes & Sub lithic arenite</u> Weakly silicified lithic greywacke, sub lithic arenite, quartz silica rich, light grey, fine grained disseminated sulphide pyrite possible arsenopyrite quartz vein stringers. Possible shear zone, weakly mineralized. (split)</p>						
		180.6' - 185.6' Weakly silicified altered (sericite) greywacke fine grained, minor quartz stringers. 0.5% - 1% pyrite, fine grained disseminated. (split)	5018 (S)	180.6'	185.6'	5'	70	
		185.6' - 191.2' Weakly silicified altered sericite quartz stringer silica rich, mottled grey quartz appearance. 0.5% - 1% pyrite, fine grained, disseminated. (split)	5019 (S)	185.6'	191.2'	5.6'	3050	

Falconbridge Ltd.

HOLE NO: 608-9-84

PAGE: 2 of 2

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au(ppb) Split	Au(ppb) Composite
		191.2' - 197.8' Silicified sublithic arenite, weakly mineralized, silicified, 1-2% fine grained disseminated pyrite. Minor sericite alteration, minor quartz vein, fine grained arsenopyrite. (Split)	5020 (S)	191.2'	197.8'	6.6'	2745	
		197.8' - 203.9' Highly mottled grey quartz 60%-70% arsenopyrite, 1%-2% fine grained pyrite. Silicified. (split)	5021 (S)	197.8'	203.9'	6.1'	3535	
		203.9' - 208.9' Weakly silicified greywackes, weakly altered, sericite, 1% pyrite, fine grained disseminated. (split)	5022 (S)	203.9'	208.9'	5.0'	240	
208'	208.9'	<u>Chemical Sediment (Chert)</u> Massive chert, layered well bedded 80° to core axis, chert beds average thickness 1.0cm, minor pyrite along bedding planes. (split)						
208.9'	297'	<u>Greywackes and Argillites (Turbidite)</u> Good thick turbidite sequence of wackes and siltstones same as 74' - 180.6'. (composite)	8061 (C) 8062 (C)	208.9' 250'	250' 297'	41.1' 47'		3 3
297'		END OF HOLE						
		Remarks: Casing Pulled						

Falconbridge Ltd.

HOLE NO: 608-10-84

PAGE:1 of 1

Drilled by: Dominik Diamond Drilling
 Started: Oct. 19/84
 Ended: Oct. 24/84

Property: Hoyle
 Township: Cody
 Logged by: C. S. Bruce

Latitude: 1.10+00E/12+00S
 Azimuth: 180°
 Élévation:

Longitude:
 Dip: -50° collar 200' 48° corr
 Length: 377' (AQ)

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppb) (Split)	Au (ppb) (Composite)
0	82'	Casing						
82'	259.4'	<u>Greywacke and Argillite</u> Interbedded argillites and greywacke. Largely greywacke, pale grey colour relatively hard, fine-medium grained texture, grain size about 0.5mm, bedding at 65° to core axis. Interlayered argillite, alternation of siltstones contains a few dark grey slaty beds. Bedding at 65° to core axis locally contorted. Younging direction is contradictory but evidence suggests, down hole. Little or no sulphides. (composite)	8022 (C) 8023 (C) 8024 (C)	82' 150' 200'	150' 200' 259.4'	68' 50' 59.4'		< 2 10 7
259.4'	267'	<u>Graphitic Sediment</u> Graphite, black, minor <0.5% coarse to disseminated pyrite. (split) 266' - 267' Grind, no recovery	5011 (S)	259.4'	267'	7.6'	40	
267'	335.5'	<u>Sheared Greywackes or Argillites</u> Pale grey green, highly chloritic altered argillites. Extremely, intense contorted, disrupted bedding. Blotchy appearance. 267' - 277' Minor thin graphitic beds. 3-5% quartz stringer veinlets. (split) 326' - 335.5' Pervasive carbonatization. (composite)	5012 (S) 5013 (S) 8025 (C) 8026 (C)	267' 277' 287' 326'	277' 287' 326' 335.5'	10' 10' 39' 9.5'	Nil Nil	2 4
335.5'	377'	<u>Greywacke</u> Pale grey colour, massive, fine-medium texture grain size about 0.5mm, blotchy appearance. Strong pervasive carbonatization. Cut by the odd veinlet of barren quartz. Little or no sulphides. (composite)	8027 (C)	335.5'	377'	41.5'		5
377'		END OF HOLE						
		Remarks: Casing Pulled						

Falconbridge Ltd.

HOLE NO: 608-11-84

PAGE: 1 of 3

Drilled by: Dominik Diamond Drilling
 Started: Nov. 27/84
 Ended: Nov. 28/84

Property: Hoyle
 Township: Cody Twp.
 Logged by: C. S. Bruce

Latitude: 116+00E/30+00S
 Azimuth: 180°
 Élévation:

Longitude:
 Dip: -50° collar 200' 50° corr
 Length: 334'

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	LENGTH	Au (ppb) (Split)	(AQ)	Au (ppb) (Composite)
0	60'	Casing							
60'	207.8'	<p>Greywackes and Argillites (Turbidites)</p> <p>Turbidite sequence of wackes and siltstones, lithic greywackes, fine to medium grained, commonly graded, younging direction down hole, grey colour. Regular alternation of wackes (10-20cm) thick and siltstones 5-10cm, with the odd thicker bedded sequences of wackes average 1m. Well developed 'Bouma' sequence. Siltstones, fine planar lamination including possible crossbedding. Bedding at 60° to core axis. Little or no sulphides, with the odd coarse grained pyrite 0.5-1.0cm cube throughout.</p> <p>(composite)</p>	8084 (C) 8085 (C) 8086 (C)	60' 100' 150'	100' 150' 207.8'	40' 50' 57.8'		5 11 14	
		203.1 - 207.8' very fine grained, possible weakly silicified. (split)	5032 (S)	203.1	207.8'	4.7'	10		
207.8'	324'	<p>Sublithic Arenite</p> <p>Largely sublithic arenite, (Protoquartzite). Gradational between sublithic arenite, quartz arenite (quartzite). Medium grained, light grey colour. The odd distinct fuchsitic ultramafic and volcanic clasts. Weakly silicified, quartz stringers, encountered throughout, generally less than 1% fine grained pyrite and possible arsenical needles. (split)</p> <p>207.8' - 212.8' Weakly mineralized, possible shear zone, moderately altered, silicified, epidotized, with some sericite, dull pistachio green colour, 5% quartz stringers, mottled appearance, quartz veins 60°-70° to core axis, 1% fine grained pyrite and possible arsenical needles. (split)</p>	5033 (S)	207.8'	212.8'	5'	40		

Falconbridge Ltd.

HOLE NO: 608-11-84

PAGE: 2 of 3

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au(ppb) (Split)	Au(ppb) (Composite)
		212.8' - 215.5' Weakly altered, 5% distinct fuchsitic ultramafic, siltstones and volcanic clasts, pebbly sub-rounded to subangular average 2cm range from 0.5-10cm, weakly altered, sericite, minor quartz stringers, silicified 1% fine grained pyrite. (split)	5034 (S)	212.8'	215.5'	2.7'	30	
		215.5' - 278.1' Quartz arenite (quartzite). Largely quartz arenite, massive, medium grained, light grey colour. (split)	5035 (S)	215.5'	218.9'	3.4'	10	
		- 218.9' - 219.2' Quartz stringers, 0.5cm.(split)	5036 (S)	218.9'	219.2'	.3'	20	
		- 223.9' - 224.3' Mottled grey quartz vein 2.5cm, 60° to core axis. (split)	5037 (S)	219.2'	223.9'	4.7'	30	
		- 224.3' - 225.8' Odd quartz stringer veinlets 0.5 cm. (split)	5038 (S)	223.9'	224.3'	.4'	40	
		- 235.0' - 237.2' Minor quartz stringers, weakly altered, 1% pyrite, arsenopyrite needles. (split)	5039 (S)	224.3'	225.8'	1.5'	20	
			5040 (S)	225.8'	230.8'	5.0'	20	
			5041 (S)	230.8'	235.0'	4.2'	275	
		- 237.2' - 238.5' 25% quartz veins, grey black, 1% pyrite arsenopyrite needles.(split)	5042 (S)	235.0'	237.2'	2.2'	100	
		- 244.3' - 244.6' 1.0cm irregular quartz veinlet. (split)	5043 (S)	237.2'	238.5'	1.3'	1885	
			5044 (S)	238.5'	244.3'	5.8'	170	
		- 252' - 253' 25% quartz veins, grey quartz. (split)	5045 (S)	244.3'	244.6'	0.3'	110	
			5046 (S)	244.6'	252.0'	7.4'	540	
			5047 (S)	252'	253'	1.0'	290	
		- 256.7' - 257.1' Quartz veins, grey quartz. (split)	5048 (S)	253.0'	256.7'	3.7'	40	
			5049 (S)	256.7'	257.1'	0.4'	30	
		- 257.1' - 259.6' Odd quartz vein, 0.5-1.0cm 40° to core axis. (split)	5050 (S)	257.1'	259.6'	2.5'	40	
			5051 (S)	259.6'	261.6'	2.0'	80	
		- 261.6' - 261.9' Irregular quartz veins 2.0cm, minor pyrite. (split)	5052 (S)	261.6'	261.9'	0.3'	100	
			5053 (S)	261.9'	267'	5.1'	60	

Falconbridge Ltd.

HOLE NO.608-11-84

PAGE: 3 of 3

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au(ppb) Split	Au oz/ ton	Au(ppb) Composite
			5054 (S)	267'	272'	5'	50		
		-277.8' - 278.1' Quartz stringer veinlets 0.5cm mottled grey quartz. (split)	5055 (S)	272'	277.8'	5.8'	30		
			5056 (S)	277.8'	278.1'	0.3'	30		
		278.1' - 302.0' Medium to fine grained sublithic arenite, weakly silicified, minor sulphides 0.5% disseminated pyrite. (split)	5057 (S)	278.1'	282.0'	3.9'	20		
			5058 (S)	282'	287'	5'	30		
			5059 (S)	287'	292'	5'	90		
			5060 (S)	292'	297'	5'	60		
			5061 (S)	297'	302'	5'	30		
		302.0' - 334.0' Fine grained, sublithic arenite, possible crossbedding at 40° to core axis. Minor sulphides. (split)	5062 (S)	302.0'	307.0'	5'	30		
			5063 (S)	307.0'	312.0'	5'	10		
			5064 (S)	312.0'	323.0'	11'	10		
323'	324'	<u>Chemical Sediment (Chert)</u> Massive chert, layered well bedded 80° to core axis, chert beds, average thickness 1.0cm, minor pyrite along bedding planes. (split)	5065 (S)	323.0'	324.0'	1.0'	Nil		
324'	334'	<u>Greywackes and Argillites (Turbidites)</u> Same as from 60' - 207.8'. (composite)	8087 (C)	324'	334'	10'			10
334'		END OF HOLE Remarks: Hole cemented							

Falconbridge Ltd.

HOLE NO: 608-12-84

PAGE: 1 of 5

Drilled by: Dominik Diamond Drilling
 Started: Nov. 28/84
 Ended: Dec. 3/84

Property: Hoyle
 Township: Cody
 Logged by: C. S. Bruce

Latitude: L4+00E, 29+00S
 Azimuth: 180°
 Elevation:

Longitude:
 Dip: -50° collar 200' 50° corr
 Length: 987' 400' 48" "
 (AQ) 600' 45" "
 800' 45" "

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	LENGTH	Au(ppb) Split	Au oz/ ton	Au(ppb) Composite
0	104	Casing							
104'	681.8'	<p>Greywackes and Argillites (Turbidites)</p> <p>Turbidite sequence of wackes and siltstones, lithic greywackes, fine to medium grained, commonly graded, younging direction indicated down hole. Grey to dark grey colour. Regular alternation of wackes, generally (10-20cm) with thicker sequences of wackes up to 1.5-2m thick and siltstones 5-10cm fine grained dark grey. Bedding, uniform at 70° to core axis. Little or no sulphides with the odd coarse grained pyrite 0.5-1.0cm cube throughout. (Composite)</p> <p>104' - 123' Porous, broken core, soft, pervasive carbonatization.</p> <p>123' - 151.1' Weakly mineralized, altered sericite, 1-2% disseminated pyrite with arsenopyrite, with quartz stringers.</p> <p>-123' - 128' Weakly altered, sericite, minor pyrite (split)</p> <p>-128' - 134' 10-15% quartz stringers, weakly altered sericite, 1% pyrite arsenopyrite (split)</p> <p>-134.0 - 134.7' Massive, bull milky quartz vein, no sulphide. (split)</p> <p>-134.7 - 142.1' 60% quartz veins and stringers, mineralized, altered sericite, fuchsite, 2-3% arsenopyrite minor pyrite, both fine grained disseminated and distinct arsenopyrite needles, carbonate and possible brown tourmaline. (split)</p> <p>-142.1' - 146.1' 10% quartz stringers, irregular pale green strongly altered sericite, soft talc, 1% disseminated arsenopyrite and pyrite. (split)</p>	8088 (C)	104'	123'	19'			8
			5066 (S)	123.0'	128.0'	5'	30		
			5067 (S)	128.0'	134.0'	6'	610		
			5068 (S)	134.0'	134.7'	0.7'	Nil		
			5069 (S)	134.7'	142.1'	8.4'	6620	0.192	
			5070 (S)	142.1'	146.1'	4'	1280	0.037	

Falconbridge Ltd.

HOLE NO: 608-12-84

PAGE: 2 of 5

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au(ppb) Split	Au oz/ ton	Au(ppb) Composite
		-146.1' - 151.1' Weakly altered, sericite odd quartz stringer veinlet, <0.5% pyrite (split)	5071 (S)	146.1'	151.1'	5'	150		
			8089 (C)	151.1'	200'	48.9'			29
			8090 (C)	200'	250'	50'			14
			8091 (C)	250'	300'	50'			8
			8092 (C)	300'	350'	50'			11
			8093 (C)	350'	396.3'	46.3'			13
		396.3' - 400.4' Quartz stringers, brecciated 50% quartz stringers, 1% fine grained disseminated arsenopyrite, minor coarse cubic pyrite grains. (split)	5072 (S)	396.3'	400.4'	4.1'	2125	0.062	
			8094 (C)	400.4'	450'	49.6'			8
			8095 (C)	450'	500'	50'			6
			8096 (C)	500'	550'	50'			7
			8097 (C)	550'	600'	50'			7
			8098 (C)	600'	648'	48'			2
			5310 (S)	644'	646'	2'	140		
			5311 (S)	646'	648'	2'	30		
		648' - 656.9' Weakly mineralized, altered sericite, fuchsite, quartz veins and quartz stringers 1-2% fine grained disseminated arsenopyrite and pyrite. (split)							
		-648' - 650.9' Altered, sericite, silicified 10-15% quartz stringers, 1% arsenopyrite and pyrite. (split)	5073 (S)	648.0'	650.9'	2.9'	2235	0.065	
		-650.9' - 653.3' Massive quartz vein bull milky quartz 1% arsenopyrite (split)	5074 (S)	650.9'	653.3'	2.4'	3565	0.103	
		-653.3' - 656.9' Altered sericite fuchsite, 10-15% quartz stringers 5-10% distinct subrounded siltstone and volcanic clasts 1-2% arsenopyrite and pyrite fine grained disseminated (split)	5075 (S)	653.3'	656.9'	3.6'	2370	0.069	
		656.9' - 662.7' Sublithic arenite, medium grained odd siltstone and volcanic clasts, subrounded pebble to granular size up to 10% irregular quartz veinlet, <1.0% fine grained pyrite. (split)	5076 (S)	656.9'	659.2'	2.3'	480		
			5077 (S)	659.2'	661.4'	2.2'	340		
			5078 (S)	661.4'	662.7'	1.3'	140		
			8099 (C)	662.7'	680.9'	18.2'			29

Falconbridge Ltd.

HOLE NO: 608-12-84

PAGE: 3 of 5

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au(ppb) Split	Au oz/ ton	Au(ppb) Composite
681.8'	798'	680.9' - 681.8' Pebbly 30% distinct siltstone and volcanic clasts subrounded 3.5% pyrite, fine grained. (split)	5079 (S)	680.9'	681.8'	0.9'	130		
		<u>Sublithic Arenite</u> Largely sublithic arenite, (protoquartzite). Gradational between sublithic arenite and quartz arenite (quartzite). Massive medium grained, grey to light grey colour. The odd distinct siltstone and volcanic clasts with the odd more pebbly unit. Minor irregular quartz stringer 0.5 - 2.0cm. Minor disseminated sulphides fine grained pyrite and arsenopyrite including needles. (composite : split)	8100 (C)	681.8'	700'	18.2'			56
			8101 (C)	700'	725'	25'			2500
			8102 (C)	725'	750'	25'			120
			8103 (C)	750'	775'	25'			96
			8104 (C)	775'	799'	24'			41
			5182 (S)	681.8'	684'	2.2'	80		
			5183 (S)	684'	687'	3'	30		
			5184 (S)	687'	690'	3'	140		
			5185 (S)	690'	691.7'	1.7'	30		
			5186 (S)	691.7'	692.2'	0.5'	5350	0.155	
			5187 (S)	692.2'	693.3'	1.1'	50		
			5188 (S)	693.3'	693.7'	0.4'	8020	0.233	
			5189 (S)	693.7'	697'	3.3'	190		
			5190 (S)	697'	700'	3'	70		
			5192 (S)	700'	702.5'	2.5'	100		
			5191 (S)	702.5'	704.5'	2'	5760	0.167	
			5080 (S)	704.5'	705.1'	0.6'	15570	0.452	
			5193 (S)	705.1'	707.0'	1.9'	620		
			5194 (S)	707.0'	710.0'	3'	270		
	5195 (S)	710.0'	712.0'	3'	210				
		691.7' - 731.7' Mineralized quartz stringer zone, weakly to moderately altered, 1-2% arsenopyrite and pyrite fine grained, distinct arsenopyrite needles.							
		-691.7' - 692.2' Quartz stringer veinlet 1.0cm 20° to core axis, minor pyrite arsenopyrite. (split)							
		-693.3' - 693.7' Quartz vein 2.0cm 40° to core axis fine grained pyrite arsenopyrite <1% (split)							
		-704.5' - 705.1' Irregular quartz stringer, <1% pyrite possible arsenopyrite fine grained. (split)							

Falconbridge Ltd.

HOLE NO: 608-12-84

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FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppb) Split	Au oz/ ton	Au (ppb) Composite
		-712.0' - 712.7' Quartz stringer 20° to core axis, 3% pyrite arsenopyrite, fine grained. (split)	5081 (S)	712.0'	712.7'	0.7'	20710	.600	
			5199 (S)	712.7'	714.3'	1.6'	3150	0.091	
		-714.3' - 714.7' Irregular quartz stringer, 1-2% pyrite arsenopyrite fine grained. (split)	5198 (S)	714.3'	714.7'	0.4'	15700	.455	
		-714.7' - 715.7' Quartz veinlets 8 parallel veinlets 80° to core axis, silicified, 30% quartz overall average 0.5 - 1.0cm. 1% disseminated arsenopyrite and pyrite, fine grained. (split)	5197 (S)	714.7'	715.7'	1.0'	19610	.569	
		-715.7' - 716.9' Quartz stringers, 3 1-2cm quartz veins 60°-80° to core axis, 1% arsenopyrite pyrite fine grained. (split)	5196 (S)	715.7'	716.9'	1.2'	14570	.422	
		-716.9' - 717.3' Quartz vein, 5% arsenopyrite, 1% coarse grained cubic pyrite. (split)	5200 (S)	716.9'	717.3'	0.4'	26225	.760	
			5201 (S)	717.3'	718.5'	1.2'	5280	.153	
		-718.5' - 719.1' Quartz stringers irregular 3% arsenopyrite and pyrite fine grained, massive arsenopyrite patches. (split)	5082 (S)	718.5'	719.1'	0.6'	63870	1.852	
			5202 (S)	719.1'	721.1'	2.0'	410	.012	
			5203 (S)	721.1'	723.7'	2.6'	1040	.030	
		-723.7' - 724.2' Quartz stringer, 0.5-1.0cm 40° to core axis, 1-2% arsenopyrite, pyrite fine grained (split)	5204 (S)	723.7'	724.2'	0.5'	39600	1.148	
			5205 (S)	724.2'	726.2'	2.0'	5900	.171	
		-726.2' - 726.6' Quartz stringers 1-2.0cm 80° to core axis, 1-2% arsenopyrite, pyrite fine grained. (split)	5206 (S)	726.2'	726.6'	0.4'	22630	.656	
			5207 (S)	726.6'	730	3.4'	1240	.036	
			5208 (S)	730	730.2'	0.2'	16590	.481	
		-730.2' - 730.7' Irregular quartz stringer 1-2cm grey, fine grained pyrite arsenopyrite 1-2%. (split)	5083 (S)	730.2'	730.7'	0.5'	33225	.964	
			5209 (S)	730.7'	732.7'	2.0'	140		
			5210 (S)	732.7'	737	4.3	40		
			5211 (S)	737'	740.3'	3.3	130		
		-740.3' - 740.5' Quartz stringer 0.5cm, 60° to core axis. (split)	5212 (S)	740.3'	740.5'	0.2'	170		
			5213 (S)	740.5'	743'	2.5'	30		
			5214 (S)	743'	746'	3.0'	40		
			5215 (S)	746'	749'	3.0'	60		

Falconbridge Ltd.

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FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	LENGTH	Au(ppb) Split	Au oz/ ton	Au(ppb) Composite
			5216 (S)	749'	752'	3.0'	50		
			5217 (S)	752'	755'	3.0'	60		
			5218 (S)	755'	758'	3.0'	30		
			5219 (S)	758'	761'	3.0'	110		
			5220 (S)	761'	763'	2.0'	60		
		-763' - 763.4' Quartz stringer irregular to 40° to core axis. (split)	5221 (S)	763'	763.4'	0.4'	185		
			5222 (S)	763.4'	767'	3.6'	80		
			5223 (S)	767'	768.1'	1.1'	30		
		-768.1' - 769.2' 20% quartz stringers 80° to core axis, 1% fine grained arsenopyrite. (split)	5224 (S)	768.1'	769.2'	1.1'	210		
		-769.2' - 770' Irregular quartz stringers molten appearance, minor pyrite possible arsenopyrite < 0.1%. (split)	5084 (S)	769.2'	770.0'	0.8'	1740		
			5225 (S)	770'	773'	3.0'	120		
			5226 (S)	773'	776'	3.0'	10		
			5227 (S)	776'	779'	3.0'	60		
			5228 (S)	779'	782'	3.0'	990		
			5229 (S)	782'	785'	3.0'	70		
			5230 (S)	785'	788'	3.0'	50		
			5231 (S)	788'	791'	3.0'	30		
			5232 (S)	791'	794'	3.0'	380		
			5233 (S)	794'	798'	4.0'	10		
798'	799'	<u>Chemical Sediment Chert</u> Silicified, massive chert, layering 1.0cm bedding at 80° to core axis, minor pyrite along bedding plane (split)	5085 (S)	798'	799'	1.0'	100		
799'	987'	<u>Greywackes and Argillites (Turbidites)</u> Same as from 104' - 81.8', increased siltstones and slates, less greywackes. (composite)	8105 (C)	799'	850'	51'			280
			8106 (C)	850'	900'	50'			7
			8107 (C)	900'	987'	87'			5
987'		END OF HOLE							
		Remarks: Casing left in hole.							

Falconbridge Ltd.

HOLE NO: 608-13-84

PAGE: 1 of 2

Drilled by: Dominik Diamond Drilling
 Started: Dec. 4/84
 Ended: Dec. 6/84

Property: Hoyle
 Township: Cody
 Logged by: C. S. Bruce

Latitude: 120°00E, 28°00S
 Azimuth: 180°
 Élévation:

Longitude:
 Dip: -50° collar 200' 50° corr
 Length: 521' 400' 48" (AQ)

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	LENGTH	Au (ppb) Split	Au oz/ ton	Au (ppb) Composite
0	44'	Casing							
44'	331'	<u>Greywackes and Argillites (Turbidites)</u> Turbidite sequence of wacke and siltstones, lithic greywackes, fine to medium grained, commonly graded younging direction indicated down hole. Grey to dark grey colour. Regular alternation of wackes generally (10-20cm) with thicker sequences of wackes up to 1.5m and siltstones 5-10cm, fine grained dark grey colour. Bedding uniformed at 70° to core axis. Little or no sulphides, with the odd coarse cube of pyrite. (composite)	8108 (C)	44'	100'	56'			4
		109' - 110' Grind, no recovery	8109 (C)	100'	150'	50'			4
		217' - 218' " " "	8110 (C)	150'	200'	50'			3
		232' - 233' " " "	8111 (C)	200'	250'	50'			4
			8112 (C)	250'	300'	50'			4
			8113 (C)	300'	331'	31'			11
331'	351.9'	<u>Sublithic Arenite</u> Sublithic arenite to quartz arenite. (Protoquartzite to quartzite). Massive medium grained, pale grey colour, distinct pebbles to granular polymictic conglomeratic units, containing subrounded siltstone and volcanic clasts, average 1-20 cm. Weakly mineralized altered sericite, quartz stringers, fine grained pyrite.							
		331' - 333.5' Pebbly sublithic arenite average 1.0cm, polymictic 40% clasts siltstone and volcanic, weakly altered, minor pyrite. (split)	5086 (S)	331'	333.5'	2.5'	20		
		333.5' - 334.8' Massive quartz vein, bull milky quartz 40° to core axis. Little or no sulphide. (split)	5087 (S)	333.5'	334.8'	1.3'	Nil		
		334.8' - 338' Pebbly sublithic arenite minor pyrite. (split)	5088 (S)	334.8'	338'	3.2'	110		
		338' - 340.5' Sublithic greywacke, medium grained. Little or no sulphide, coarse grained cubic pyrite. (split)	5089 (S)	338'	340.5'	2.5'	100		

Falconbridge Ltd.

HOLE NO: 608-13-84

PAGE:2 of 2

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppb) Split	Au oz/ ton	Au (ppb) Composite
		340.5' - 341.9' Strongly altered, sericite weakly mineralized, silicified, 1-2% disseminated pyrite, possible arsenopyrite, 30% polymictic pebbly siltstone, volcanic and fuchsitic clasts average 1-2.5cm. (split)	5090 (S)	340.5'	341.9'	1.4'	460		
		341.9' - 344.9' Strongly altered, sericite silicified, weakly mineralized 1-2% fine grained disseminated pyrite, with the odd quartz veinlet. (split)	5091 (S)	341.9'	344.9'	3'	2295	0.066	
		344.9' - 346' Strongly altered, sericite, silicified, weakly mineralized 1-2% fine grained pyrite, 10% quartz stringers. (split)	5092 (S)	344.9'	346'	1.1'	1370	0.040	
		346' - 348.1' Weakly altered, sublithic arenite, sericite, with the odd quartz veinlets. (split)	5093 (S)	346'	348.1'	2.1'	170		
		348.1' - 350' Massive, quartz vein milky bull quartz, 80 - 90° to core axis. (split)	5094 (S)	348.1'	350'	1.9'	50		
		350' - 351.9' Weakly altered, sericite, silicified 10% quartz stringer veinlets. (split)	5095 (S)	350'	351.9'	1.9'	140		
351.9'	352.8'	<u>Chemical Sediment Chert</u> Massive chert, layered well bedded 80° to core axis, chert beds average thickness 1.0cm, minor pyrite along bedding planes. (split)	5096 (S)	351.9'	352.8'	0.9'	80		
352.8'	521'	<u>Greywackes and Argillites (Turbidites)</u> Same as from 44' - 331'. (composite)	8114 (C)	352.8'	400'	47.2'			327
			8115 (C)	400'	450'	50'			
			8116 (C)	450'	521'	71'			
521'		END OF HOLE							
		Remarks: Casing left in hole.							

Falconbridge Ltd.

HOLE NO: 608-14-84

PAGE: 1 of 6

Drilled by: Dominik Diamond Drilling
 Started: Dec. 8/84.
 Ended: Dec. 12/84

Property: Hoyle
 Township: Cody
 Logged by: C. S. Bruce

Latitude: 16+00E, 27+50S
 Azimuth: 180°
 Élévation:

Longitude:
 Dip: -50° collar 200: 490
 300: 480
 800: 480
 Length: 977' (AQ)

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	LENGTH	Au (ppb) Split	Au oz/ton	Au (ppb) Composite
0	120	Casing Overburden, sand clay with the odd boulder.							
120'	253'	Carbonated Tholeiite Massive, medium grained, pervasive carbonatization. Little or no sulphide. (composite)	8117 (C)	120'	150'	30'			< 2
		257' - 253' Possible flow top breccia or fault breccia?	8118 (C)	150'	200'	50'			3
			8119 (C)	200'	253'	53'			53
		121' - 127' Grind, no recovery							
		128' - 130' " " "							
		133' - 137' " " "							
		140' - 142' " " "							
		144' - 147' " " "							
253'	259.3'	Argillites? Tuffwackes? Largely siltstones, fine grained, possible tuffwacke, tuff? Well layered at 65-70° to core axis, pale green grey colour. Little or no sulphides. (composite)	8120 (C)	253'	259.3'	6.3'			15
259.3'	267.5'	Conglomerate Conglomerate, polymictic, granular to pebble size clasts range from 0.5 - 10cm. 50%-60% subrounded clasts largely siltstone, volcanic clasts with the odd quartz pebble. Little or no sulphide. (composite)	8121 (C)	259.3'	267.5'	8.2'			150
267.5'	814.7'	Greywackes and Argillites (Turbidites) Turbidite sequence of wackes and siltstones, lithic greywackes, fine to medium grained, commonly graded, younging direction indicated down hole. Grey to dark grey colour. Regular alternation of wackes, generally (10-20cm) with thicker sequences of wackes up to 1.5-2m thick and siltstones 5-10cm fine grained dark grey. Bedding, uniform at 70° to core axis. Little or no sulphides with the odd coarse grained pyrite 0.5-1.0cm cube throughout. (Composite)							

Falconbridge Ltd.

HOLE NO: 608-14-84 PAGE: 2 of 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppb) Split	Au oz/ ton	Au (ppb) Composite
267.5'	286.8'	Largely greywacke, massive grey green colour, medium grained. Little or no sulphide. (composite)	8122 (C)	267.5'	281'	13.5'			3
284.0'	301.4'	Weakly mineralized, altered, sericite, quartz veins and quartz stringers, 1-2% fine grained disseminated arsenopyrite and pyrite with minor arsenopyrite needles. (split)	5180 (S)	281'	284'	3'	510		50
-284.0'	-285.1'	Quartz stringer 10° to core axis, 1.5cm, 1-2% disseminated fine grained and needles arsenopyrite. (split)	5097 (S)	284.0'	285.1'	1.1'	3570	.103	
-285.1'	-286.8'	Odd quartz veinlet, fine grained arsenopyrite. (split)	5098 (S)	285.1'	286.8'	1.7'	2060	.060	
-286.8'	-287.9'	Quartz stringer 10° to core axis 1.5cm, 1% fine grained arsenopyrite, pyrite. (split)	5099 (S)	286.8'	287.9'	1.1'	5930	.171	
-287.9'	-290.9'		5100 (S)	287.9'	290.9'	3'	1710	.050	
-290.9'	-294.0'		5101 (S)	290.9'	294.0'	3.1'	150		
-294.0'	-296.5'		5102 (S)	294.0'	296.5'	2.5'	130		
-296.5'	-299.6'	80% quartz vein, milky bull quartz, altered sericite, pale green, 1% disseminated fine grained arsenopyrite and pyrite. (split)	5103 (S)	296.5'	299.6'	3.1'	1710	.050	
-299.6'	-300.4'	Altered, 1% arsenopyrite disseminated. (split)	5104 (S)	299.6'	300.4'	0.8'	6755	.196	
-300.4'	-300.6'	1-2% disseminated and needles of arsenopyrite, no quartz veinlets, altered sericite. (split)	5105 (S)	300.4'	300.6'	0.2'	4320	.125	
-300.6'	-301.4'	Odd quartz veinlet. (split)	5106 (S)	300.6'	301.4'	0.8'	1030	0.03	
			5181 (S)	301.4'	304.4'	3'	20		
301.4'	767.2'	Greywacke siltstones (Turbidites). Turbidite sequence of wackes and siltstones. (composite)	8123 (C)	301.4'	350'	48.6'			50
			8124 (C)	350'	400'	50'			7
			8125 (C)	400'	450'	50'			15
			8126 (C)	450'	500'	50'			11

Falconbridge Ltd.

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FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au(ppb) Split	Au oz/ ton	Au(ppb) Composite
			8127 (C)	500'	550'	50'			11
			8128 (C)	550'	600'	50'			22
			8129 (C)	600'	650'	50'			9
			8130 (C)	650'	700'	50'			3
			8131 (C)	700'	767.2'	67.2'			3
			5312 (S)	763.2'	765.2'	2'	60		
			5313 (S)	765.2'	767.2'	2'	40		
		767.2' - 814.7' Weakly mineralized, altered sericite, fuchsite 10-40%, quartz veins and quartz stringers, 1-2% fine grained disseminated arsenopyrite and pyrite, distinct arsenopyrite needles. (split)							
		-767.2' - 768.5' Odd quartz stringer, irregular.	5107 (S)	767.2'	768.5'	1.3'	7265	.211	
		-771.9' - 773' Odd quartz stringer, irregular.	5108 (S)	768.5'	771.9'	3.4'	1510		
			5109 (S)	771.9'	773'	1.1'	6380	.185	
			5110 (S)	773'	777'	4'	100		
			5111 (S)	777'	782'	5'	480		
			5112 (S)	782'	787'	5'	230		
			5113 (S)	787'	792'	5'	180		
			5114 (S)	792'	797'	5'	60		
			5115 (S)	797'	799'	5'	100		
			5116 (S)	799'	801.1'	2.1'	1440	.042	
		-801.1' - 801.8' Quartz stringer 75° to core axis, minor pyrite.	5117 (S)	801.1'	801.8'	0.7'	15840	.459	
		-801.8' - 803.2' 10% quartz stringers, altered, fuchsite, 1-2% fine grained arsenopyrite and pyrite.	5118 (S)	801.8'	803.2'	1.4'	17830	.517	
		-803.2' - 805' 25% quartz stringers, altered, fuchsite, 1-2% fine grained arsenopyrite and pyrite.	5119 (S)	803.2'	805'	1.8'	40115	1.163	
		-805' - 806.2' 40% quartz stringers, altered fuchsite, 1-2% fine grained arsenopyrite and pyrite	5120 (S)	805'	806.2'	1.2'	21905	.635	
		-806.2' - 807.9' 10% quartz stringers, 1% fine grained arsenopyrite and pyrite	5121 (S)	806.2'	807.9'	1.7'	5760	.167	
			5122 (S)	807.9'	808.6'	0.7'	170		
			5123 (S)	808.6'	808.8'	0.2'	310		
			5124 (S)	808.8'	811.6'	2.8'	160		
		-811.6 - 813.9' 1-2% fine grained arsenopyrite altered fuchsite	5125 (S)	811.6'	813.9'	2.3'	110		
		-813.9' - 814.7' Quartz stringers altered fuchsite 1-2% fine grained arsenopyrite	5126 (S)	813.9'	814.7'	0.8'	370		

Falconbridge Ltd.

HOLE NO: 608-14-84

PAGE: 4 of 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au(ppb) Split	Au oz/ ton	Au(ppb) Composite
814.7'	904.2'	<u>Sublithic Arenite</u> Largely sublithic arenite, (protoquartzite). Gradational between sublithic arenite and quartz arenite (quartzite). Massive medium grained, grey to light grey colour. The odd distinct siltstone and volcanic clasts with the odd more pebbly unit. Minor irregular quartz stringer 0.5 - 2.0cm. Minor disseminated sulphides fine grained pyrite and arsenopyrite including needles. (split)	5127 (S)	814.7'	816.1'	1.4'	3630	.105	
		816.1' - 816.7' Quartz vein 60 - 70° to core axis, 1-2% arsenopyrite and pyrite, fine grained. (split)	5128 (S)	816.1'	816.7'	0.6'	390		
			5129 (S)	816.7'	820'	3.3'	450		
			5130 (S)	820'	823'	3'	190		
			5131 (S)	823'	825.6'	2.6'	2200	.064	
		825.6' - 825.9' Quartz stringer, 20° to core axis (split)	5132 (S)	825.6'	825.9'	0.4'	4660	.135	
		825.9' - 826.7' 1-2% fine grained disseminated arsenopyrite (split)	5133 (S)	825.9'	826.7'	0.8'	450		
		826.7' - 827.9' Quartz stringer 20° to core axis (split)	5134 (S)	826.7'	827.9'	1.2'	370		
		830.2' - 841.4' Quartz stringer zone, mineralized 1-2% disseminated arsenopyrite and distinct arsenopyrite needles. (split)	5135 (S)	827.9'	830.2'	2.3'	270		
		-830.2' - 830.5' 5% fine grained arsenopyrite and pyrite. (split)	5136 (S)	830.2'	830.5'	0.3'	27360	.793	
			5137 (S)	830.5'	831.2'	0.7'	4110		
		-830.5' - 836.2' Odd quartz stringer veinlet generally less than 1.0cm 1% fine grained arsenopyrite, disseminated and distinct needles.	5138 (S)	831.2'	831.4'	0.2'	5180		
			5139 (S)	831.4'	831.9'	0.5'	1650		
			5140 (S)	831.9'	832.3'	0.4'	1850		
			5141 (S)	832.3'	835.1'	2.8'	1310		
		-835.1' - 836.2' Quartz stringer 1.5cm irregular to 20° to core axis	5142 (S)	835.1'	836.2'	1.1'	4250		
			5143 (S)	836.2'	837.3'	1.1'	1200	.035	
		-837.3' - 837.7' Quartz stringer 1.5-2.5cm irregular to 30° to core axis	5144 (S)	837.3'	837.7'	0.4'	9910	.287	
			5145 (S)	837.7'	841'	3.3'	820		
			5146 (S)	841'	841.4'	0.4'	5420	.157	
		-841' - 841.4' Quartz stringer 5cm, 60° to core axis	5147 (S)	841.4'	844'	2.6'	500		
			5148 (S)	844'	847'	3.0'	90		
			5149 (S)	847'	851.3'	4.3'	100		

Falconbridge Ltd.

HOLE NO. 608-14-84

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FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	LENGTH	Au (ppb) Split	Au oz/ ton	Au (ppb) Composite
		851.3' - 851.7' Quartz stringer 1.5cm irregular. (split)	5150 (S)	851.3'	851.7'	0.4'	3570	.103	
			5151 (S)	851.7'	854'	2.3'	1070		
			5152 (S)	854'	857'	3.0'	270		
			5153 (S)	857'	860'	3.0'	90		
			5154 (S)	860'	864.6'	4.6'	1470	.043	
		864.6' - 865.2' Quartz stringer, 1.5cm irregular. (split)	5155 (S)	864.6'	865.2'	0.6'	14230	.413	
			5156 (S)	865.2'	867'	1.8'	110		
			5157 (S)	867'	870'	3'	4285	.124	
			5158 (S)	870'	873'	3.0'	1230	.036	
			5159 (S)	873'	876'	3.0'	250		
			5160 (S)	876'	880'	4.0'	130		
			5161 (S)	880'	882.9'	2.9'	100		
		882.9' - 883.1' Quartz vein 2.5cm, 80° to core axis. (split)	5162 (S)	882.9'	883.1'	0.2'	3500	.101	
			5163 (S)	883.1'	886'	2.9'	3900	.102	
			5164 (S)	886'	890.1'	4.1'	80		
		890.1' - 890.7' Quartz vein 10cm, 80° to core axis. (split)	5165 (S)	890.1'	890.7'	0.6'	570		
			5166 (S)	890.7'	891.3'	0.6'	100		
		891.3' - 891.7' Quartz stringer 1.0cm irregular. (split)	5167 (S)	891.3'	891.7'	0.4'	930		
			5168 (S)	891.7'	892.9'	1.2'	520		
		892.9' - 893.2' Quartz stringer 2.5cm, 70° to core axis	5169 (S)	892.9'	893.2'	0.3'	6275	.182	
			5170 (S)	893.2'	896.1'	2.9'	740		
		896.1' - 896.4' Pyrite, pyrrhotite bed 2-3mm	5171 (S)	896.1'	896.4'	0.3'	160		
			5172 (S)	896.4'	897.7'	1.3'	980		
		897.7' - 898' Quartz stringer 2.5cm, 80° to core axis	5173 (S)	897.7'	898'	0.3'	9330	.271	
			5174 (S)	898'	898.6'	0.6'	730		
		898.6' - 898.7' Quartz stringer, 60° to core axis	5175 (S)	898.6'	898.7'	0.1'	6205	.180	
			5176 (S)	898.7'	901.8'	3.1'	790		
		901.8' - 902.6' Quartz stringer 1-2.5cm, 60° to core axis	5177 (S)	901.8'	902.6'	0.8'	720		
			5178 (S)	902.6'	904.2'	1.6'	200		
904.2'	905.3'	Chemical Sediment Chert Massive chert, bedding 60° to core axis, layering 0.5 - 1.0cm, fine grained pyrite along bedding planes.	5179 (S)	904.2'	905.3'	1.1'	1650		

Falconbridge Ltd.

HOLE NO: 608-14-84

PAGE: 6 of 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppb) Split	Au oz/ ton	Au (ppb) Composite
905.3'	977'	<p>Greywackes and Argillites (Turbidites)</p> <p>Same as from 301.4' - 767.2'. Bedding uniform at 60° to core axis. (composite)</p>	8132 (C)	905.3'	977'	71.7'			6
977'		<p>END OF HOLE</p> <p>Remarks: Casing left in hole</p>							

Falconbridge Ltd.

HOLE NO. 608-15-84

PAGE: 1 of 5

Drilled by: Dominik Diamond Drilling Property: Hoyle
 Started: Dec. 13/84 Township: Cody
 Ended: Dec. 17/84 Logged by: C. S. Bruce

Latitude: L2+00E, 28+50S

Azimuth: 180°

Élévation:

Longitude:

Dip: -50° collar 200' 45°

400' 42°

Length: 885' 600' 42°

(AQ) 800' 42°

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppb) Split	Au oz/ ton	Au (ppb) Composite
0	120	Casing Overburden boulders							
120'	167'	Iron Tholeiite Possible basaltic komatiite. Highly carbonatized, medium to fine grained massive, green colour. Carbonate stringers pervasive throughout. Little or no sulphides. (composite)	8133 (C)	120'	167'	47'			< 2
167'	186.9'	Volcanic Debris Possible lahar or fault breccia. Polymictic 50-60% granular to pebble size, subangular fragments, clasts, green serpentine? Largely volcanic clasts strong pervasive carbonatization. Little or no sulphides. (composite)	8134 (C)	167'	186.9'	19.9'			6
186.9'	190.8'	Tuffwacke Pale grey green, massive, fine grained, layering 80° to core axis. Possible tuff, no carbonatization. Little or no sulphides. (composite)	8135 (C)	186.9'	190.8'	3.9'			< 2
190.8'	202'	Conglomerate Conglomeratic, polymictic, granular to pebble size fragments range from 0.5 - 2.5cm subrounded to subangular. Generally volcanic and siltstone clasts. Little or no sulphide, strong pervasive carbonate. (composite)	8136 (C)	190.8'	202'	11.2'			59
202'	773.5'	Greywackes and Argillites (Turbidites) Turbidite sequence of wackes and siltstones, lithic greywackes, fine to medium grained, commonly spaded younging direction indicated down hole. Grey to dark grey colour. Regular alternation of wackes, generally (10-20cm) with thicker sequences of wackes up to 1.5m and siltstones (5-10cm) fine grained, dark grey colour. Bedding uniform 70° to core axis. Little or no sulphide. (composite)							

Falconbridge Ltd.

HOLE NO608-15-84

PAGE: 2 of 5

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au(ppb) Split	Au oz/ ton	Au(ppb)
		202' - 238' Largely greywacke, massive grey, medium-fine grained.	8137 (C)	202'	238'	36'			4
			8138 (C)	238'	300'	62'			12
			8139 (C)	300'	350'	50'			26
			8140 (C)	350'	400'	50'			23
			8141 (C)	400'	450'	50'			10
			8142 (C)	450'	500'	50'			11
			8143 (C)	500'	550'	50'			15
			8144 (C)	550'	600'	50'			4
			8145 (C)	600'	650'	50'			11
			8146 (C)	650'	700'	50'			3
			8147 (C)	700'	753.5'	53.5'			16
		362.2' - 363.5' 5% irregular to 30° to core axis, quartz stringer veinlets. (split)	5234 (S)	362.2'	363.5'	1.3'	60		
		363.5' - 364.5' 15% irregular quartz stringer veinlets. (split)	5235 (S)	363.5'	364.5'	1'	140		
		364.5' - 365.5' 30% quartz stringer veins and veinlets. (split)	5236 (S)	364.5'	365.5'	1'	140		
		380.4' - 380.9' 30% quartz veins 60° to core axis, minor pyrite. (split)	5237 (S)	380.4'	380.9'	0.5'	70		
		392.1' - 392.6' 75% quartz veins, 75° to core axis, <1.0% pyrite, arsenopyrite fine grained. (split)	5308 (S)	390.1'	392.1'	2'	305		
			5239 (S)	392.1'	392.6'	0.5'	6510	.189	
			5238 (S)	392.6'	393.7'	1.1'	360		
		393.7' - 393.9' Quartz vein 75° to core axis, 1% pyrite arsenopyrite along contact. (split)	5240 (S)	393.7'	393.9'	0.2'	5490	.159	
			5309 (S)	393.9'	395.9'	2'	220		
		753.5' - 773.5' Mineralized altered quartz stringer zone, bleached, sericite 1-2% arsenopyrite, pyrite, fine grained disseminated, distinct arsenopyrite needles. (split)							
		-753.5' - 759.5' Weakly altered, odd quartz veinlet < 0.5cm.	5243 (S)	753.5'	756.5'	3'	80	0.002	
			5242 (S)	756.5'	759.5'	3'	620	0.018	
		-759.5' - 760.0' Quartz vein, 60° - 70° to core axis silicified, altered, 1% fine grained arsenopyrite and pyrite.	5241 (S)	759.5'	760'	0.5'	19715	0.0571	
			5244 (S)	760'	761.9'	1.9'	4180	0.121	

Falconbridge Ltd.

HOLE NO: 608-15-84

PAGE: 3 of 5

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppb) Split	Au oz/ ton	Au (ppb) Composite
773.5'	877.2'	-761.9' - 765.0' 5-10% irregular to 20° quartz stringers.	5245 (S)	761.9'	763'	1.1'	7270	0.210	
			5246 (S)	763'	764'	1.0'	3430	0.100	
			5247 (S)	764'	765'	1'	2060	0.060	
		-765' - 766.4' 70% irregular quartz stringers, 1-2% fine grained arsenopyrite.	5248 (S)	765'	766.4'	1.4'	12340	0.358	
		-766.4' - 766.9' 25% irregular quartz stringers, 3% arsenopyrite.	5249 (S)	766.4'	766.9'	0.5'	16660	0.483	
		-766.9' - 768.2' Weakly altered odd quartz stringer 1-2% fine grained arsenopyrite and distinct needles.	5250 (S)	766.9'	768.2'	1.3'	5900	0.171	
		-768.2' - 768.9' 15% quartz stringers, altered 3% arsenopyrite and distinct needles.	5251 (S)	768.2'	768.9'	0.7'	19235	0.558	
		-768.9' - 769.2' Weakly altered siltstone, 1% arsenopyrite.	5252 (S)	768.9'	769.2'	0.3'	2610	0.076	
		-769.2' - 769.7' 20% quartz, 1-2% arsenopyrite.	5253 (S)	769.2'	769.7'	0.5'	18545	0.538	
		-769.7' - 771.7' 20% irregular quartz stringers, 1% arsenopyrite.	5254 (S)	769.7'	771.7'	2.0'	9600	0.278	
		-771.7' - 773.5' Weakly altered, odd quartz veinlet minor arsenopyrite, odd distinct needles.	5255 (S)	771.7'	773.5'	1.8'	2190	0.063	
				<u>Sublithic Arenite</u> Largely sublithic arenite, (protoquartzite). Gradational between sublithic arenite and quartz arenite (quartzite). Massive medium grained, grey to light grey colour. The odd distinct siltstone and volcanic clasts with the odd more pebbly unit. Minor irregular quartz stringer 0.5 - 2.0cm. Minor disseminated sulphides fine grained pyrite and arsenopyrite including needles. Bedding at 80° to core axis. (split)					
		773.5' - 774.1' Odd fuchsite clast, 2% fine grained pyrite, arsenopyrite.	5256 (S)	773.5'	774.1'	0.6'	960	0.028	
			5257 (S)	774.1'	777'	2.9'	80	0.002	
			5258 (S)	777'	780.9'	3.9'	40	0.001	

Falconbridge Ltd.

HOLE NO: 608-15-84

PAGE: 4 of 5

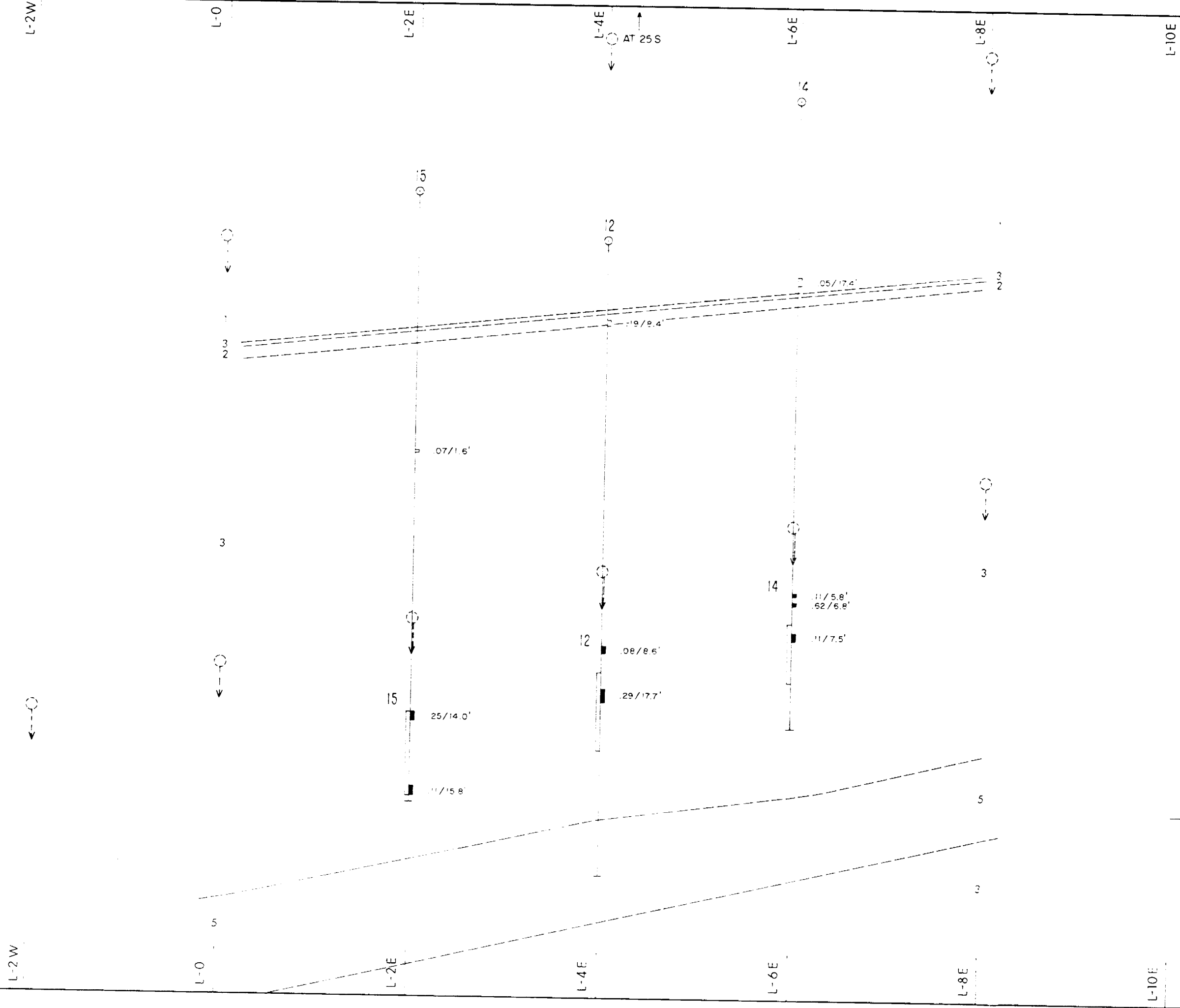
FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au(ppb) Split	Au oz/ ton	Au(ppb) Composite
		780.9' - 781.2' 70% irregular quartz stringers, 1% fine grained arsenopyrite and pyrite.	5259 (S)	780.9'	781.2'	0.3'	5585	0.162	
			5260 (S)	781.2'	785.1'	3.9'	60	0.001	
		785.1' - 785.5' 20% irregular quartz stringers, grey appearance, minor sulphides.	5261 (S)	785.1'	785.5'	0.4'	2950	0.086	
			5262 (S)	785.5'	788.5'	3'	670		
			5263 (S)	788.5'	791.5'	3'	60		
			5264 (S)	791.5'	795.5'	3'	380		
			5265 (S)	795.5'	796'	0.5'	510		
		796' - 796.4' 30% irregular quartz stringers, 1-2% arsenopyrite, fine grained.	5266 (S)	796'	796.4'	0.4'	6615	0.192	
			5267 (S)	796.4'	799.4'	3'	140		
			5268 (S)	799.4'	802.4'	3'	70		
			5269 (S)	802.4'	805.4'	3'	60		
			5270 (S)	805.4'	808.4'	3'	70		
			5271 (S)	808.4'	811'	2.6'	40		
			5272 (S)	811'	814'	3'	30		
			5273 (S)	814'	817'	3'	30		
			5274 (S)	817'	820'	3'	40		
			5275 (S)	820'	823'	3'	30		
			5276 (S)	823'	826'	3'	30		
			5277 (S)	826'	829.4'	2.6'	40		
			5278 (S)	829.4'	830.2'	0.8'	30		
			5279 (S)	830.2'	833'	2.8'	485		
			5280 (S)	833'	836'	3'	50		
			5281 (S)	836'	839'	3'	70		
			5282 (S)	839'	842'	3'	170		
			5283 (S)	842'	845'	3'	140		
			5284 (S)	845'	848'	3'	30		
			5285 (S)	848'	851'	3'	30		
			5286 (S)	851'	854'	3'	30		
			5287 (S)	854'	857'	3'	70		
		857' - 877.2' Mineralized, 5-10% quartz stringers irregular, weakly altered, 1% fine grained disseminated arsenopyrite. (split)							
		-857' - 857.5' 80% quartz, massive, 1% fine grained arsenopyrite.	5288 (S)	857'	857.5'	0.5'	1410	0.040	
			5289 (S)	857.5'	859.8'	2.3'	990	0.029	
			5290 (S)	859.8'	861.4'	1.6'	820	0.024	

Falconbridge Ltd.

HOLE NO: 608-15-84

PAGE: 5 of 5

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au(ppb) Split	Au oz/ ton	Au(ppb) Composite
		-861.4' - 862.3' 25% irregular quartz stringers	5291 (S)	861.4'	862.3'	0.9'	7130	0.207	
			5292 (S)	862.3'	864.2'	1.9'	2600	0.075	
			5293 (S)	864.2'	865.5'	1.3'	5970	0.173	
		-865.5' - 865.9' Quartz vein, 10cm 65° to core axis, 2% fine grained arsenopyrite and pyrite.	5294 (S)	865.5'	865.9'	0.4'	5140	0.149	
			5295 (S)	865.9'	866.9'	1.0'	930	0.026	
		-866.9' - 868.2' Quartz vein 5-10%, chert, 80° to core axis.	5296 (S)	866.9'	868.2'	1.3'	1710	0.049	
		-868.2' - 869.2' 5-10% quartz irregular stringers.	5297 (S)	868.2'	869.2'	1.0'	5315	0.154	
		-869.2' - 871' 5% quartz irregular stringers.	5298 (S)	869.2'	871'	1.8'	2840	0.082	
			5299 (S)	871'	872.2'	1.2'	930	0.026	
			5300 (S)	872.2'	873.4'	1.2'	210	0.006	
		-873.4' - 877.2' 10-15% quartz stringers irregular, 2% pyrite and fine grained arsenopyrite.	5301 (S)	873.4'	874.5'	1.1'	8230	0.239	
			5302 (S)	874.5'	876.2'	1.7'	7440	0.216	
			5303 (S)	876.2'	877.2'	1.0'	1620	0.046	
877.2'	878'	<u>Chemical Sediment (Chert)</u> Massive chert, layered well bedded 80° to core axis, chert beds, average thickness 1.0cm, minor pyrite, along bedding planes. (split)	5304 (S)	877.2'	878'	0.8'	1130	0.033	
878'	885'	<u>Greywackes and Argillites (Turbidites)</u> Same as from 202' - 773.5'. (composite)	8148 (C)	878'	885'	7'			6
			5305 (S)	878'	879'	1'	Nil		
			5306 (S)	879'	882'	3'	10		
			5307 (S)	882'	885'	3'	Nil		
885'		END OF HOLE Remarks: Casing left in hole							



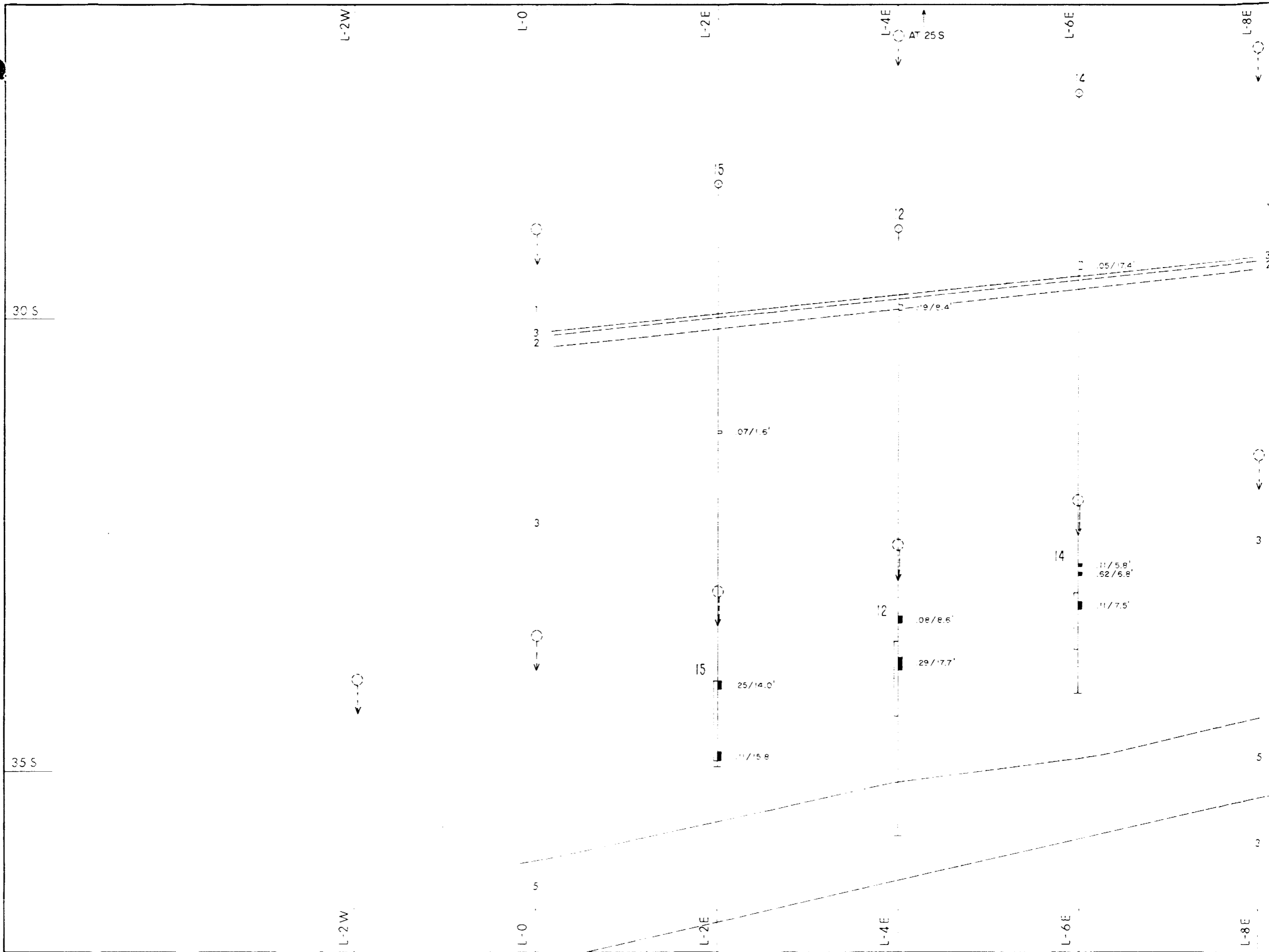
30 S

LEGEND

- Arenite-Related gold intersections in oz per ton, vertically projected.
- Other gold intersections in oz per ton, vertically projected.
- Arenite marker, vertically projected to show relation with intersections.
- Main rock contacts projected up-dip to surface of bedrock.
- Collar of recommended holes.
- 5 ARENITE
- 3 WACKES-ARGILLITE
- 2 CONGLOMERATE
- 1 MAFIC LAVAS

FALCONBRIDGE LTD / LTÉE			
HOYLE PROJECT, WHITNEY & CODY TWP.			
ONTARIO			
SURFACE PLAN			
SHOWING			
GEOLOGY and GOLD INTERSECTIONS			
of DDH 608-12, 14 and 15			
Journal par:	M. Bérubé	Date:	01/85
Supervisé par:	M. Bérubé	Date:	01/85
Dessiné par:	Géodès	Date:	01/85
Révisé par:		Date:	
		N.T.S.:	42 A/11
		Plan no:	
Scale:		1" = 200'	Echelle:
		100'	200'





L-2W

L-0

L-2E

L-4E

L-6E

L-8E

L-10E

15

12

14

SURFACE

OVERBURDEN

-100'

-300'

-500'

-700'

L-2W

L-0

L-2E

L-4E

L-6E

L-8E

L-10E

15

.25 / 14.0'

.11 / 15.8'

12

.08 / 8.6'

.29 / 17.7'

14

.11 / 5.8'
.62 / 6.8'

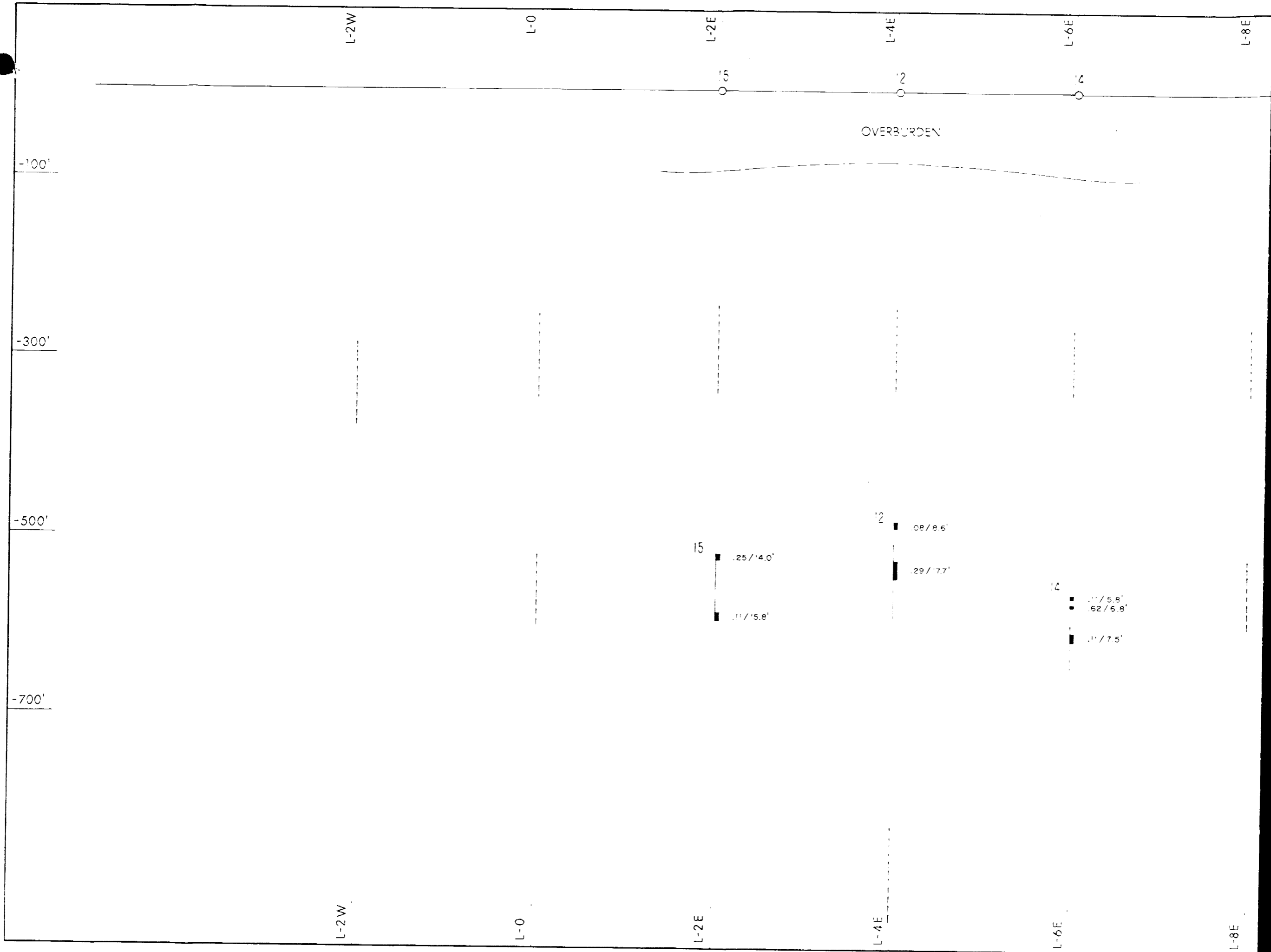
.11 / 7.5'

LEGEND

- Gold intersection, nearby arenite.
 - ◄ Gold intersection, inside arenite.
 - Trace of arenite in drilled holes.
 - - - Assumed trace of arenite in recommended holes.
- (See surface plan for more detailed legend)

FALCONBRIDGE LTD / LTÉE			
HOYLE PROJECT, WHITNEY & CODY TWP.			
ONTARIO			
LONGITUDINAL SECTION			
SHOWING			
ARENITE-RELATED GOLD INTERSECTIONS			
IN HOLES 608-12, 14 and 15			
Journal par:	Date:		
Logged by: M. Bérubé	01/85		
Supervisé par:	Date:	N.T.S.:	
Supervised by: M. Bérubé	01/85	42 A/11	
Dessiné par:	Date:	Plan no.:	
Drawn by: Géodès	01/85		
Révisé par:	Date:		
Revised by:			
Scale:	1" = 200'	Echelle:	1:200
0	100'		200'



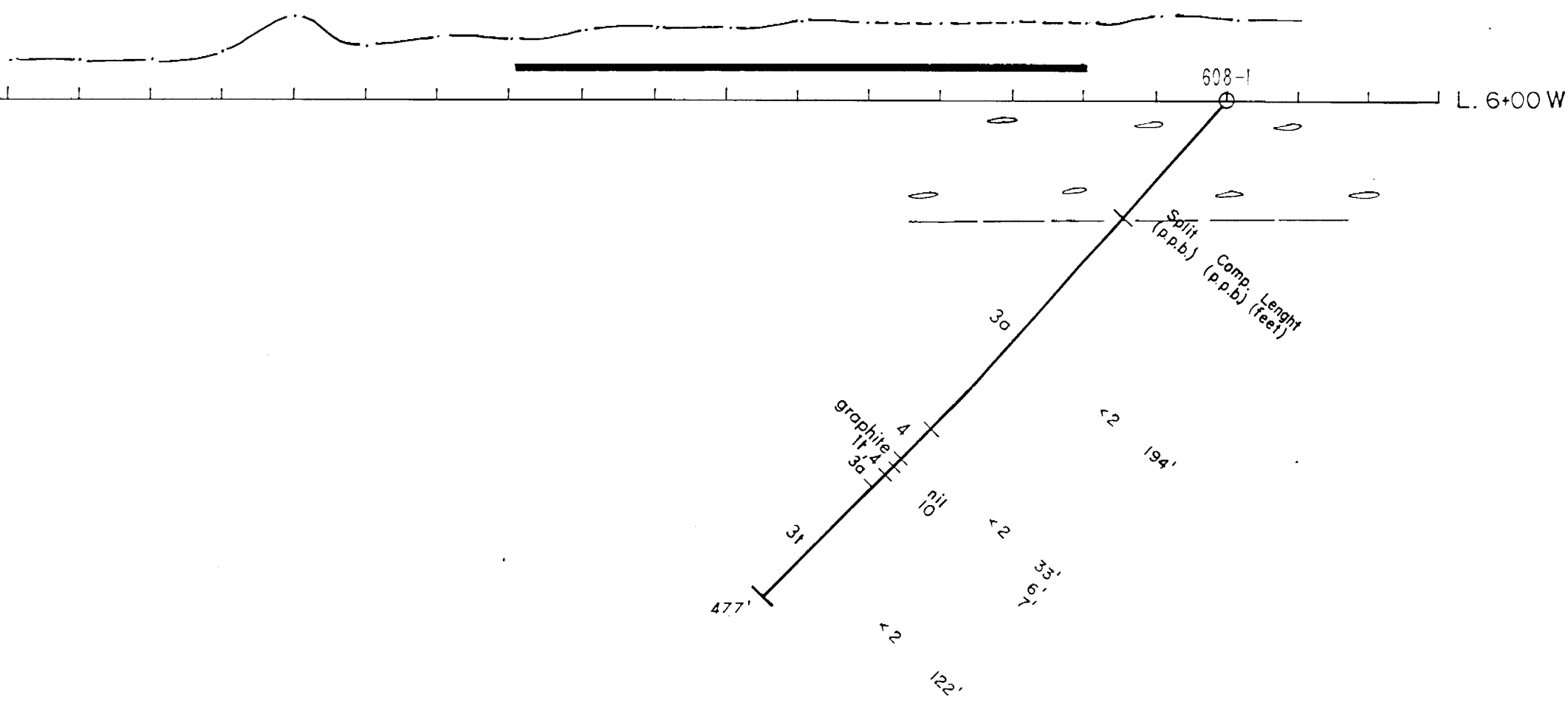


20 00 S

AZIMUTH 360°

15 00 S

12 00 S



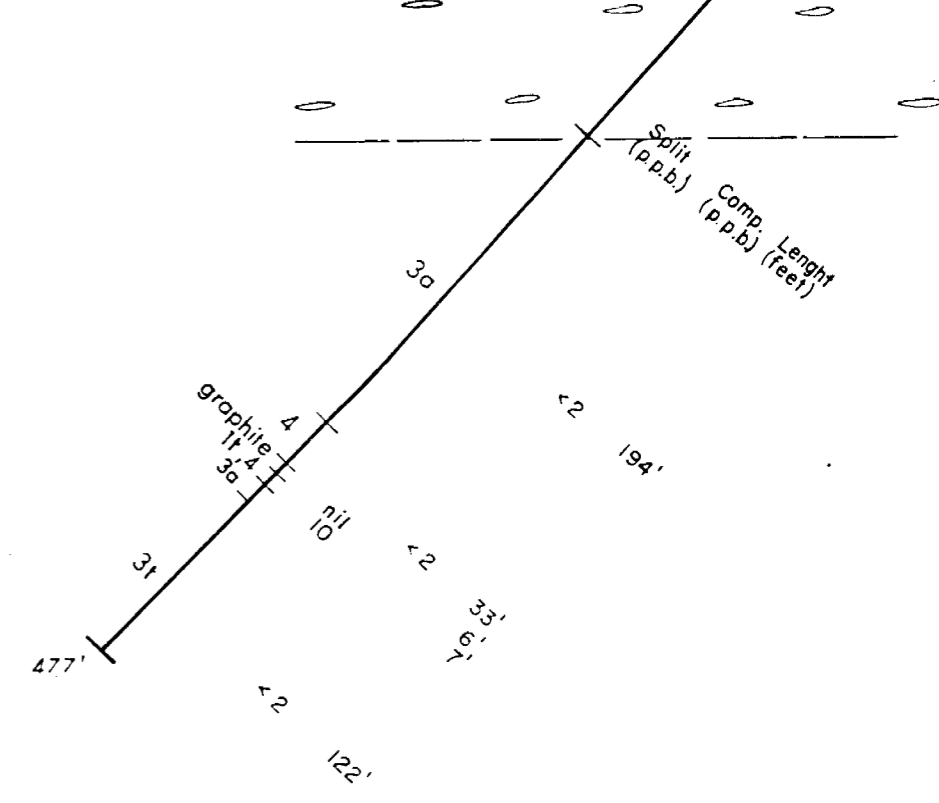
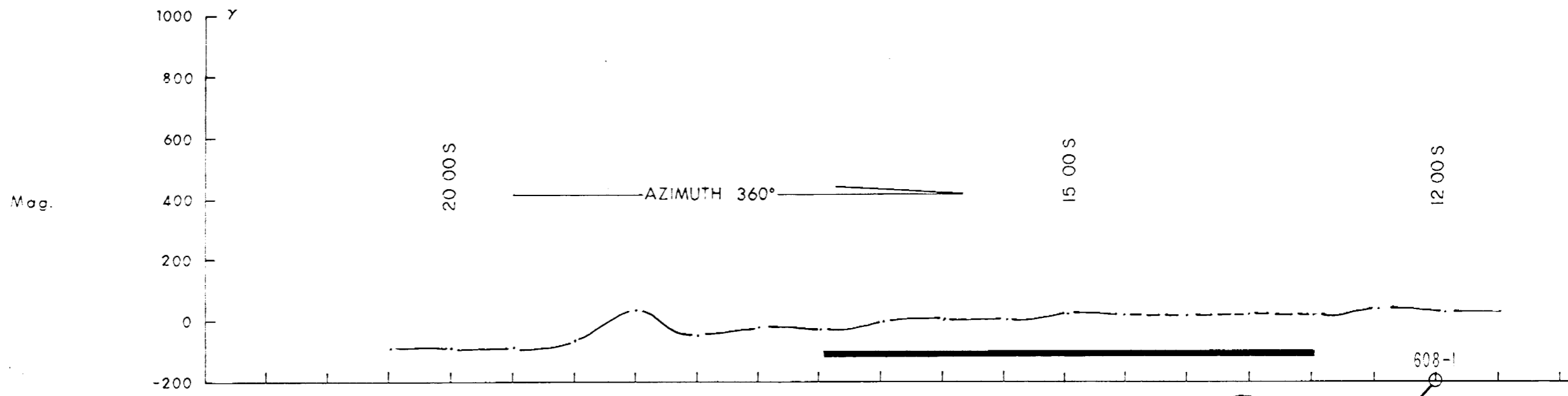
LEGEND

- 4 Slates, Argillites
- 3 Greywacke, 3a greywacke, 3t tuff wacke
- 1 Metavolcanics, 1t tuff
- Graphite, graphitic sediments

- Definite I.P. surface projection of anomalous zone
- Magnetic profile

63,4484

FALCONBRIDGE LTD / LTÉE		
PN - 608 HOYLE PROPERTY		
VERTICAL SECTION 608-1		
Journal par Logged by: C.S. BRUCE	Date 84/10	
Supervisé par: Supervisé by: M. BÉRUBÉ	Date	N.T.S. 42 A/11
Dessiné par: Drawn by: GÉODES	Date 85/01	Plus de
Révisé par: Revised by:	Date	
Scale 0 1:1200 100'	Echelle 200'	



55 00 S

50 00 S

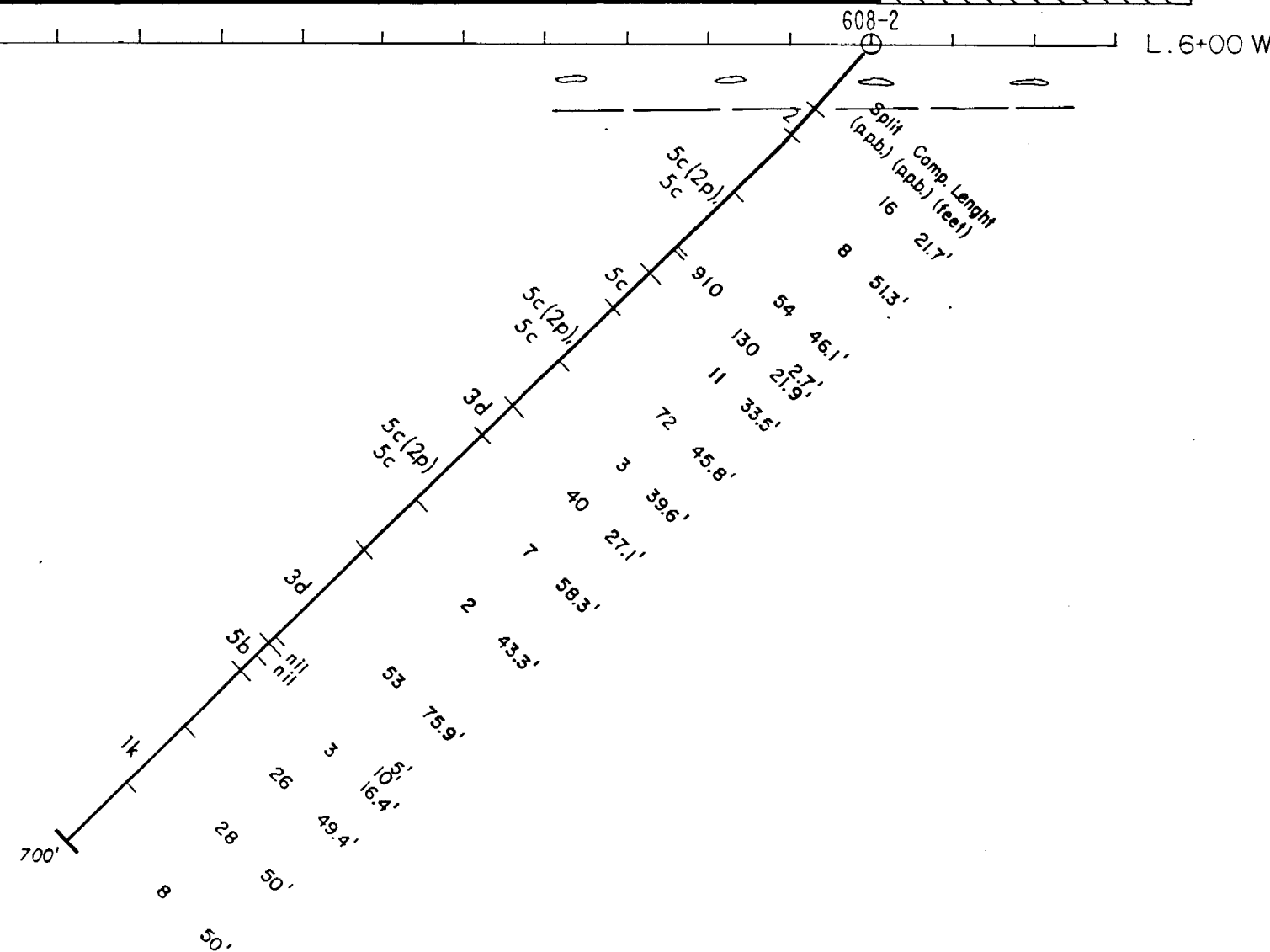
45 00 S

AZIMUTH 360°

LEGEND

- 5 Arenite, 5b sublithic arenite, 5a lithic arenite
- 3 Greywacke, 3d lithic wacke
- 2 Conglomerate, 2p pebbly conglomerate
- 1 Metavolcanics, 1k Basaltic komatiite(altered)

- Definite I.P. surface projection of anomalous zone
- Possible I.P. surface projection of anomalous zone
- Magnetic profile



63.4485

FALCONBRIDGE LTD/LTÉE

PN-608
HOYLE PROPERTY

VERTICAL SECTION
608-2

Journal par
Logged by C.S. BRUCE 84/10

Supervisé par
Supervised by M. BÉRUBÉ 42 A/11

Dessiné par
Drawn by GÉODES 85/01

Révisé par
Revised by

Échelle 1:1200
0 100 200



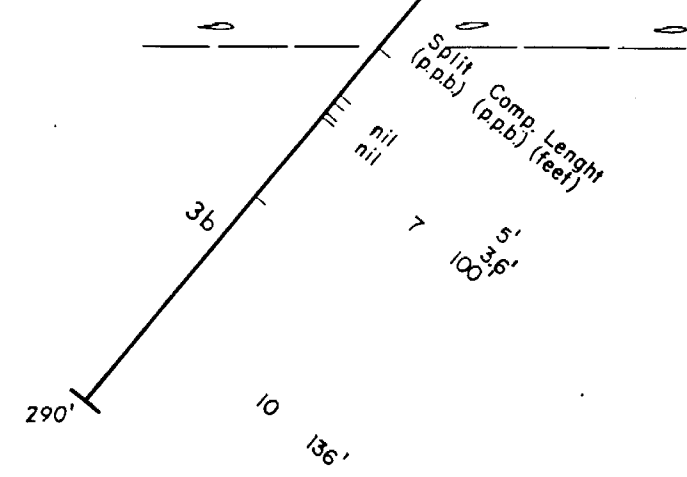
AZIMUTH 360°

45 00 S

T.L. 40 00 S

L. 34+00 W

608-5



LEGEND

3 Greywacke, 3b greywacke and argillites

Definite I.P. surface projection of anomalous zone

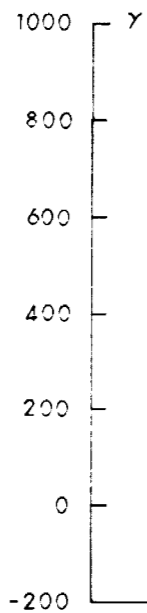
Magnetic profile

63.4484

FALCONBRIDGE LTD / LTÉE	
PN-608	
HOYLE PROPERTY	
VERTICAL SECTION 608-5	
Journal par Logged by	C. S. BRUCE 84/10
Supervisé par Supervised by	M. BÉRUBÉ 42 A/11
Dessiné par Drawn by	GÉODES 85/01
Révisé par Revised by	
Echelle 1:1200 100' 200'	



Mag.

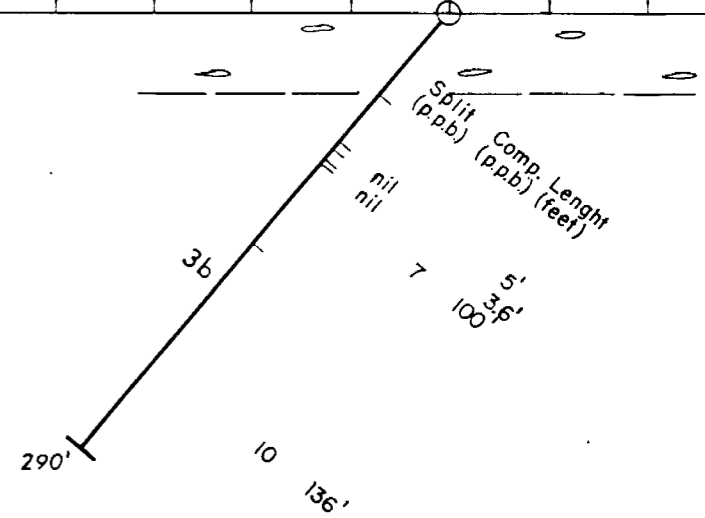


AZIMUTH 360°

4500S

T.L. 4000S

608-5



7500 S

7000 S

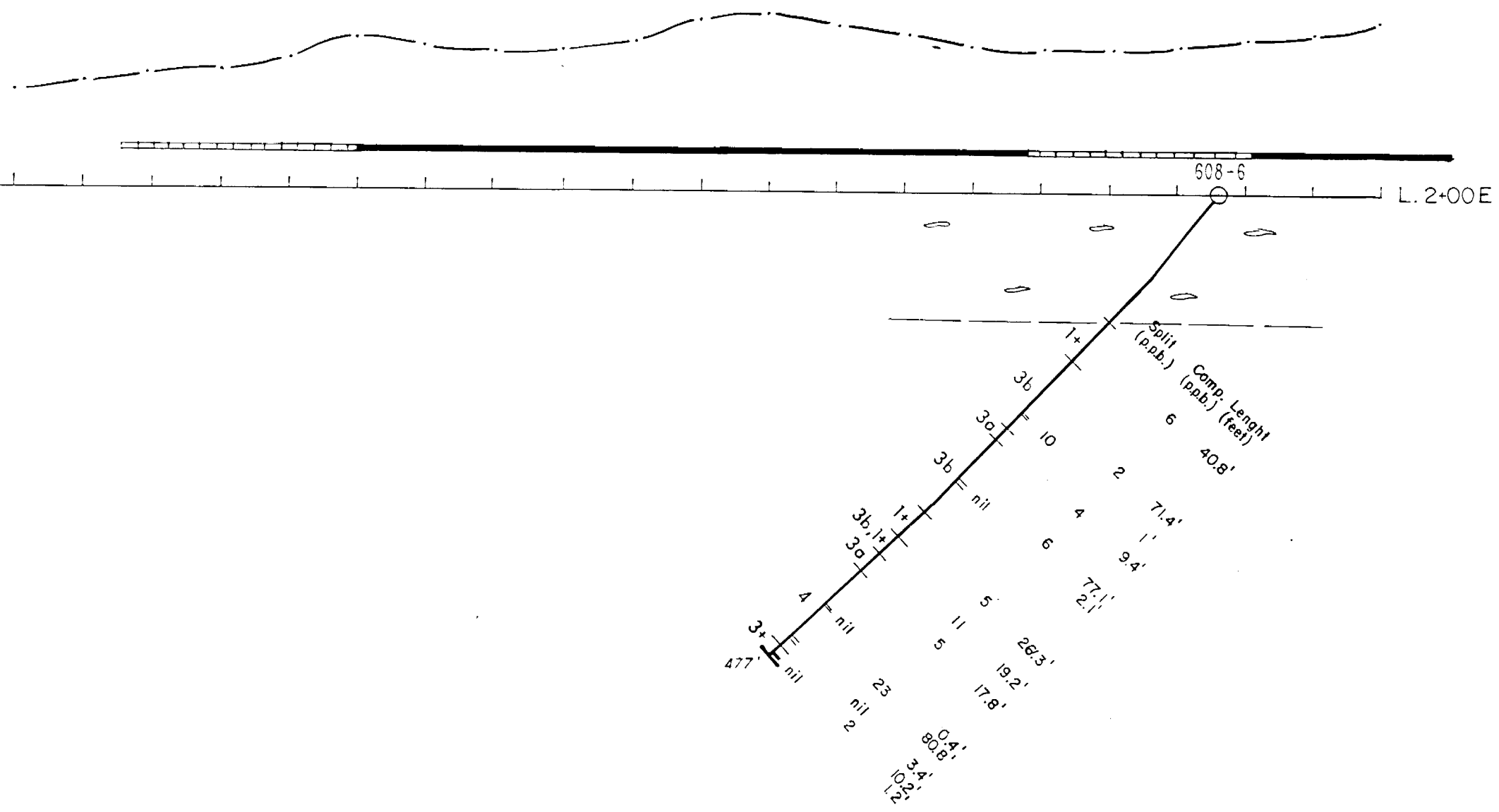
6500 S

AZIMUTH 360°

LEGEND

- 4 Slates (Argillites)
- 3 Greywacke, 3a greywacke, 3b greywacke and argillites, 3t tuffwacke
- 1 Metavolcanics, 1t tuff (mafic-intermediate)

- Definite I.P. surface projection of anomalous zone
- Probable I.P. surface projection of anomalous zone
- Magnetic profile



634484

FALCONBRIDGE LTD/LTÉE	
PN-608 HOYLE PROPERTY	
VERTICAL SECTION 608-6	
Journal by Logged by	C. S. BRUCE 84/10
Checked by	M. BÉRUBÉ 42 A/11
Scale	GÉODES 85/01
Revised by	Date

Mag.

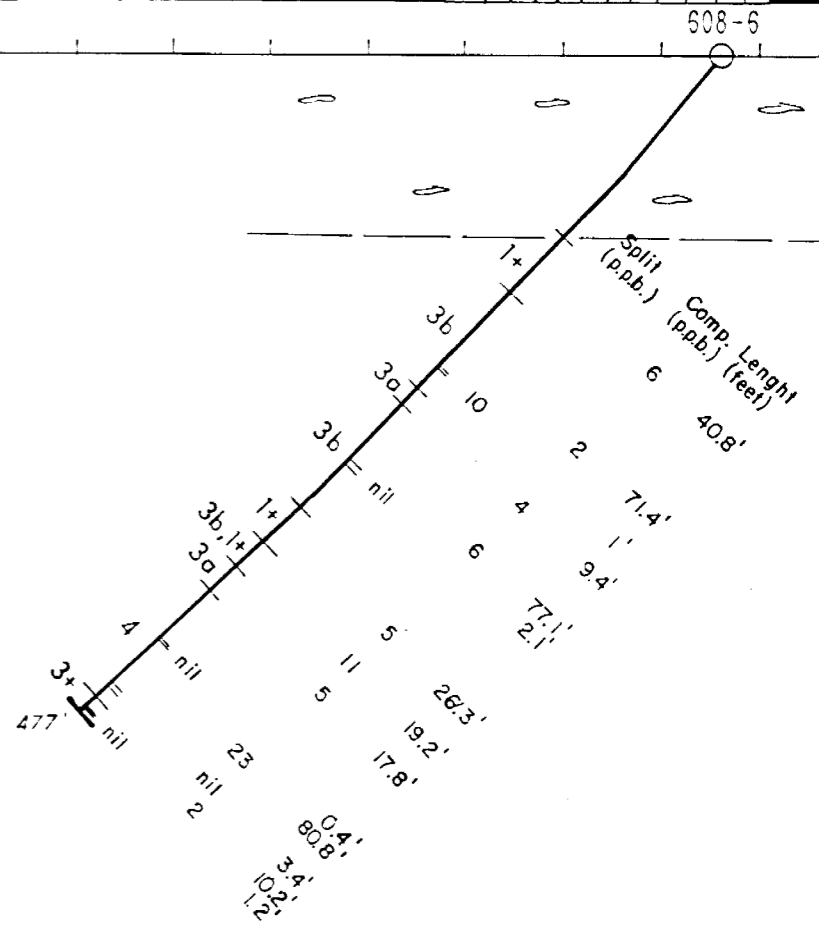


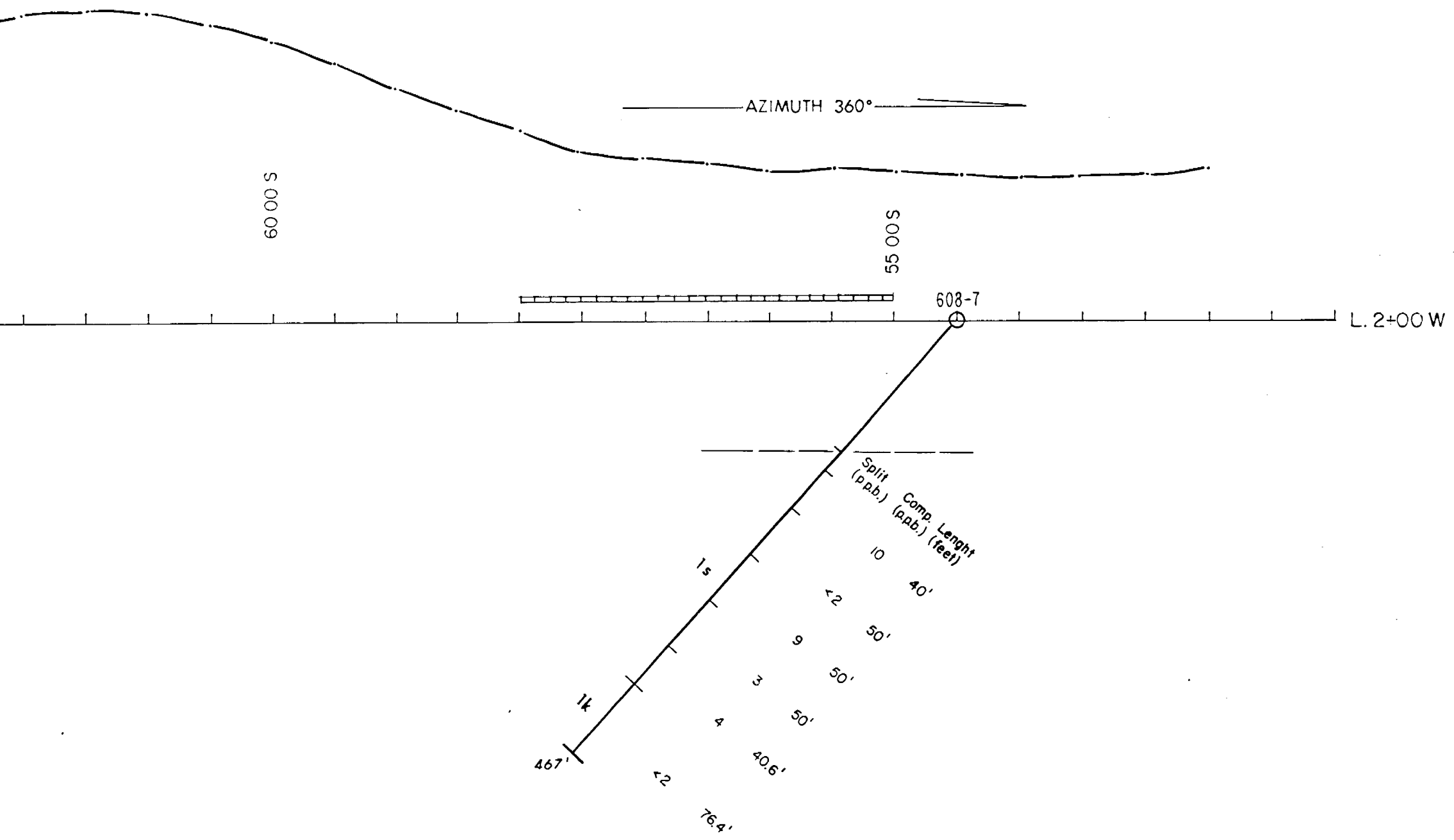
7500 S

7000 S

6500 S

AZIMUTH 360°





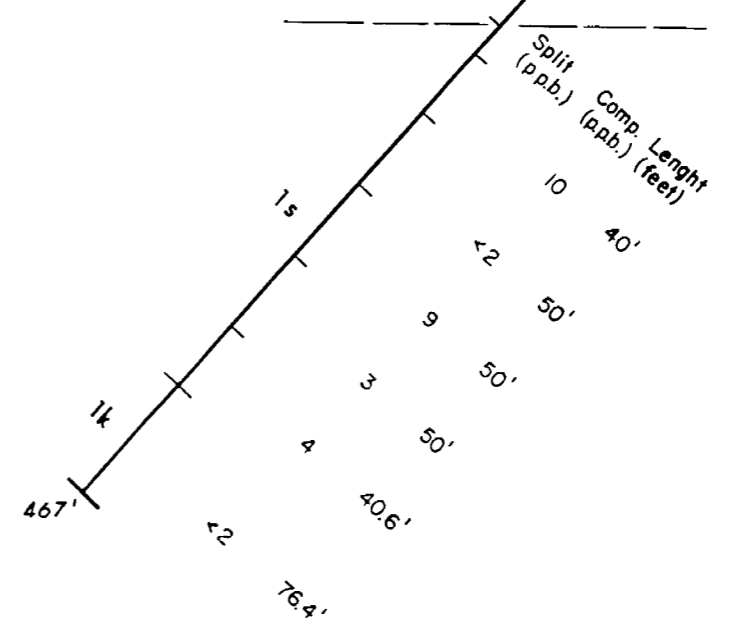
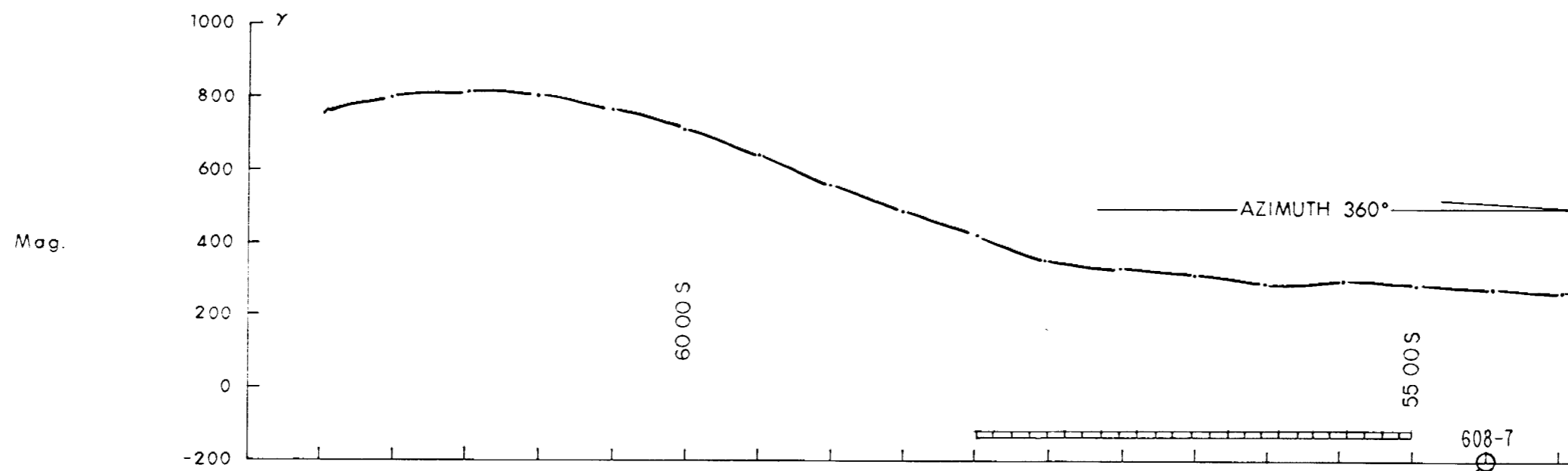
LEGEND

- 1 Metavolcanics, 1s ultramafic serpentinite, 1k basaltic komatiite
- Probable I.P. surface projection of anomalous zone
- Magnetic profile

63.4644

FALCONBRIDGE LTD / LTÉE	
PN - 608 HOYLE PROPERTY	
VERTICAL SECTION 608 - 7	
Journal par Logged by	C. S. BRUCE 84/10
Supervisé par Supervised by	M. BÉRUBÉ 42 A/11
Dessiné par Drawn by	GÉODES 85/01
Revisé par Revised by	
Scale	1:1200 0 100 200
Echelle	1:1200 0 100 200



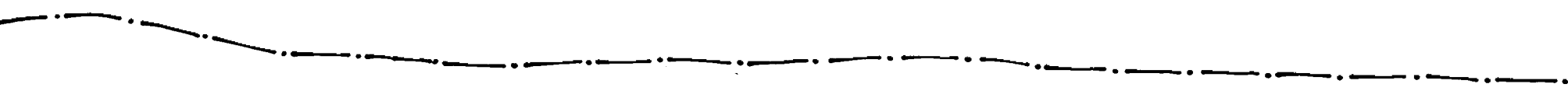


50 00 S

45 00 S

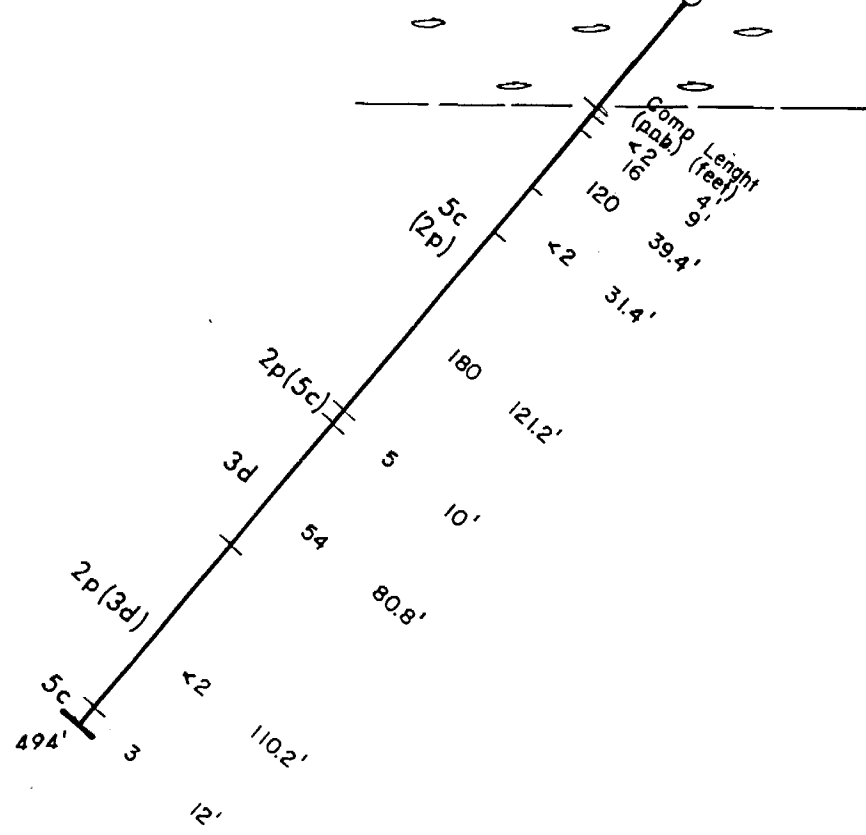
40 00 S

AZIMUTH 360°



608-8

L. 6+00 E



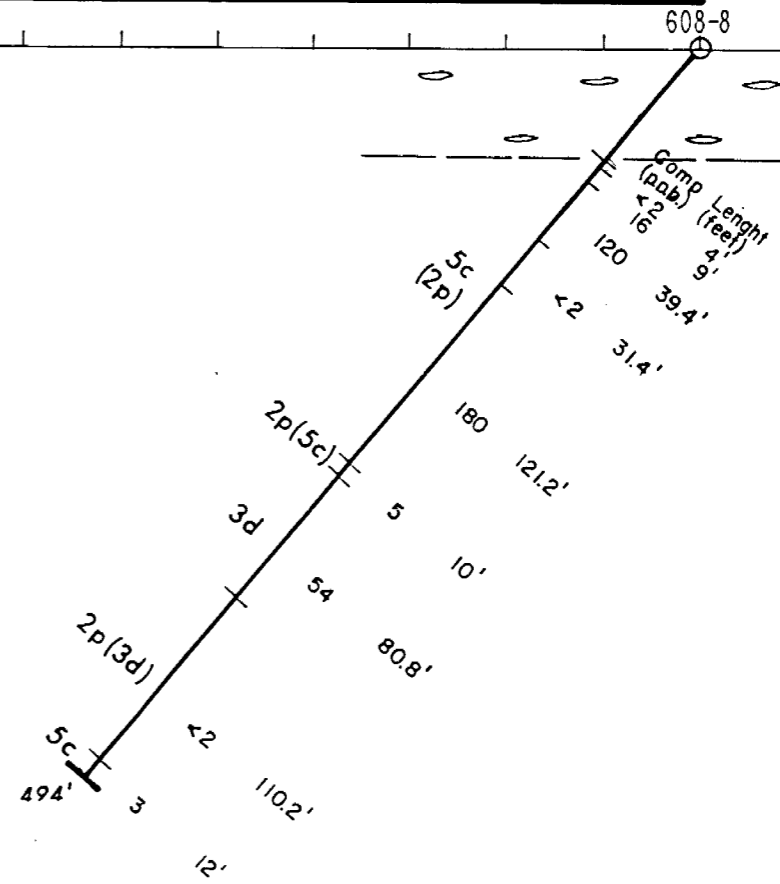
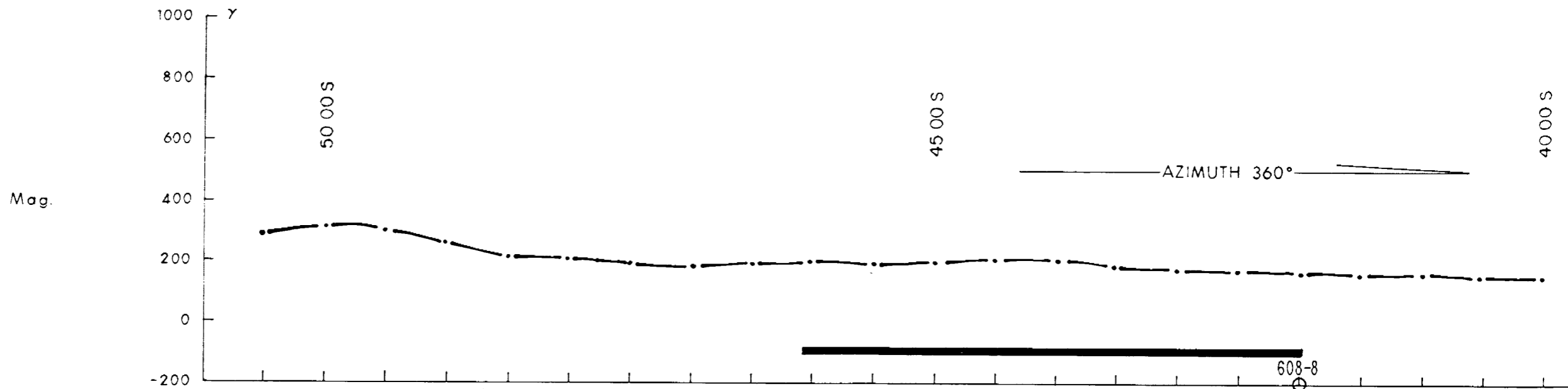
LEGEND

- 5 Arenite, 5c lithic arenite
- 3 Greywacke, 3d lithic wacke
- 2 Conglomerate, 2p pebble conglomerate

- Definite I.P. surface projection of anomalous zone
- Magnetic profile

63.44145-

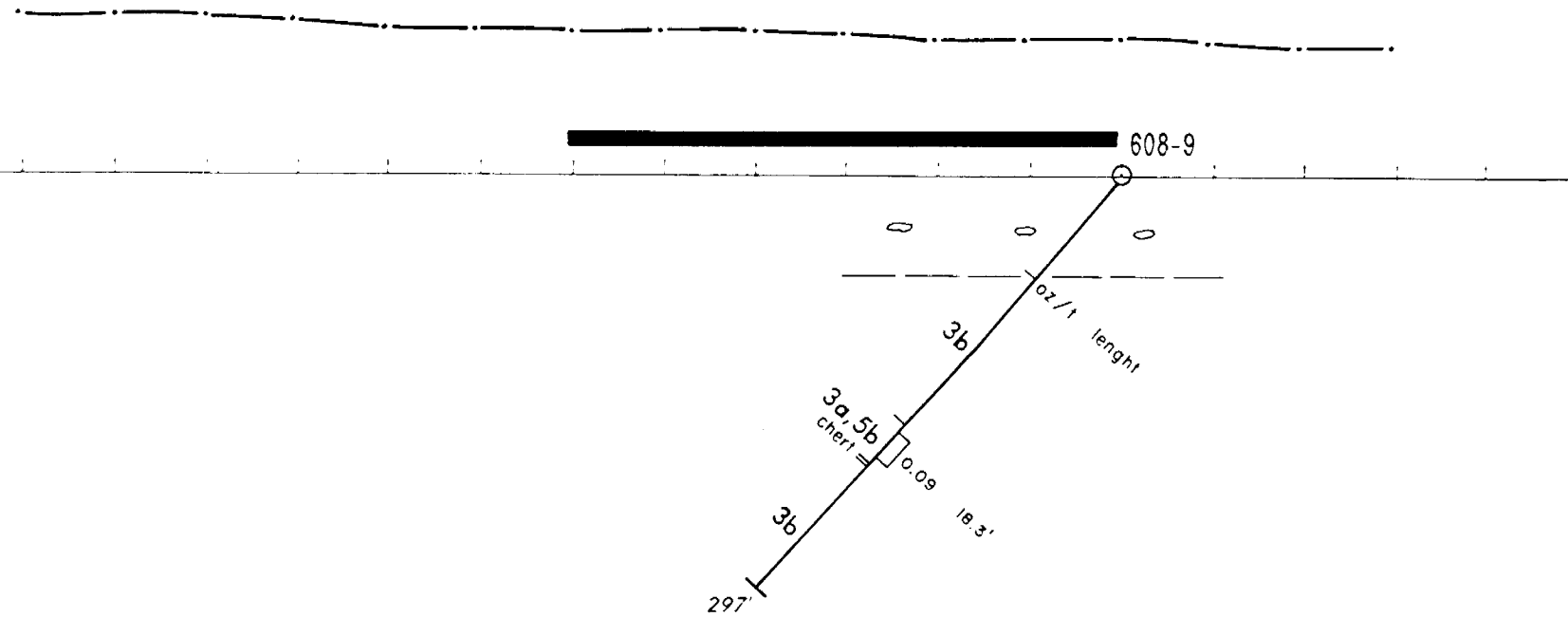
FALCONBRIDGE LTD / LTÉE	
PN - 608 HOYLE PROPERTY	
VERTICAL SECTION 608 - 8	
Journal par Logged by C. S. BRUCE	Date 84/10
Revisé par Revised by M. BÉRUBÉ	Date 85/01
Dessiné par Drawn by GÉODES	Date 85/01
Revisé par Revised by	Date
1:1200 Echelle 100' 200'	



35+00 S

30+00 S


AZIMUTH 360°

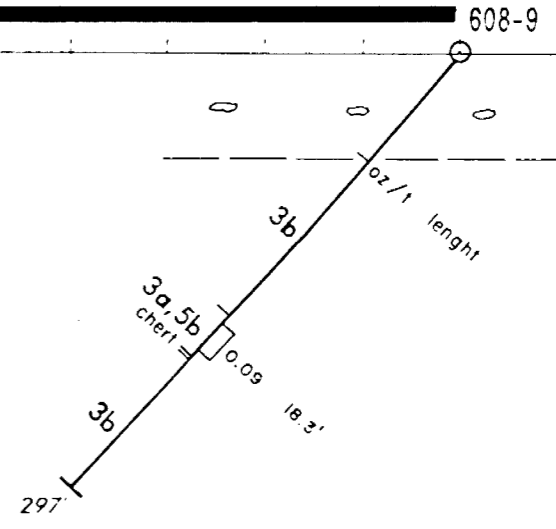
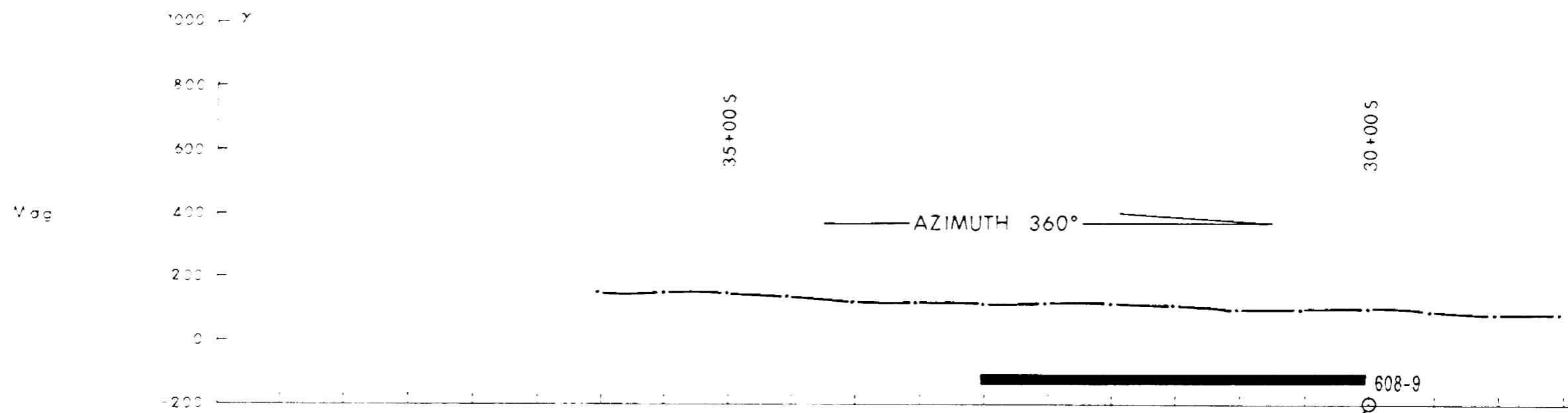


LEGEND

- 5 Arenite, 5b sublithic arenite
- 3 Metasediments: greywacke, 3a greywacke, 3b greywacke and argillites.
- Chemical sediment chert.
- Definite I.P. surface projection of anomalous zone.

63.4484

FALCONBRIDGE LTD / LTÉE	
PN-608 HOYLE PROPERTY	
VERTICAL SECTION 608-9	
C.S. BRUCE	84/10
M. BÉRUBÉ	42 A/11
GÉODES	85/01
	

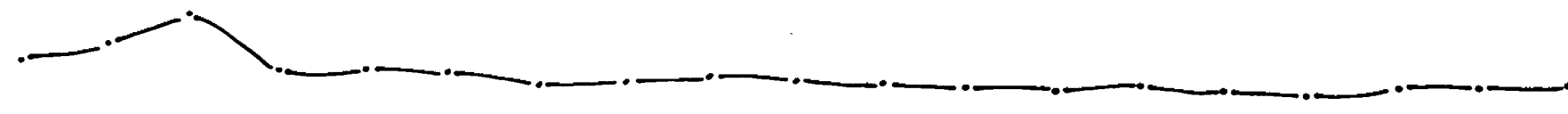


20 00 S

15 00 S

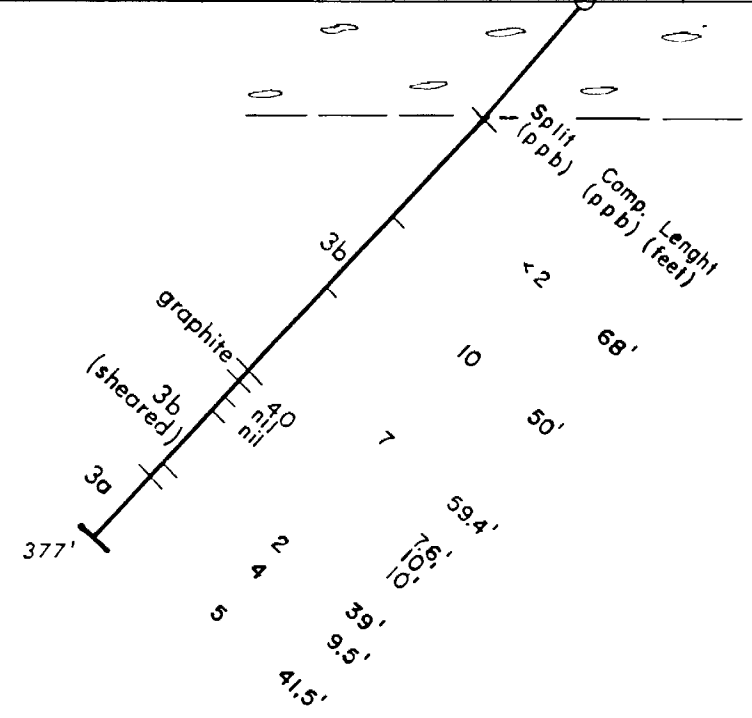
10 00 S

AZIMUTH 360°



608-10

L. 10+00E



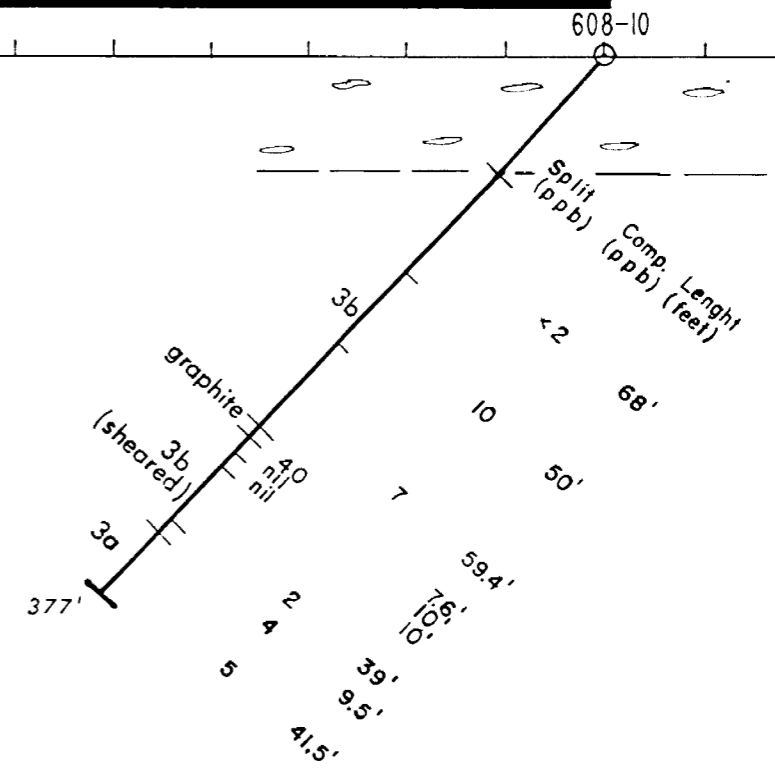
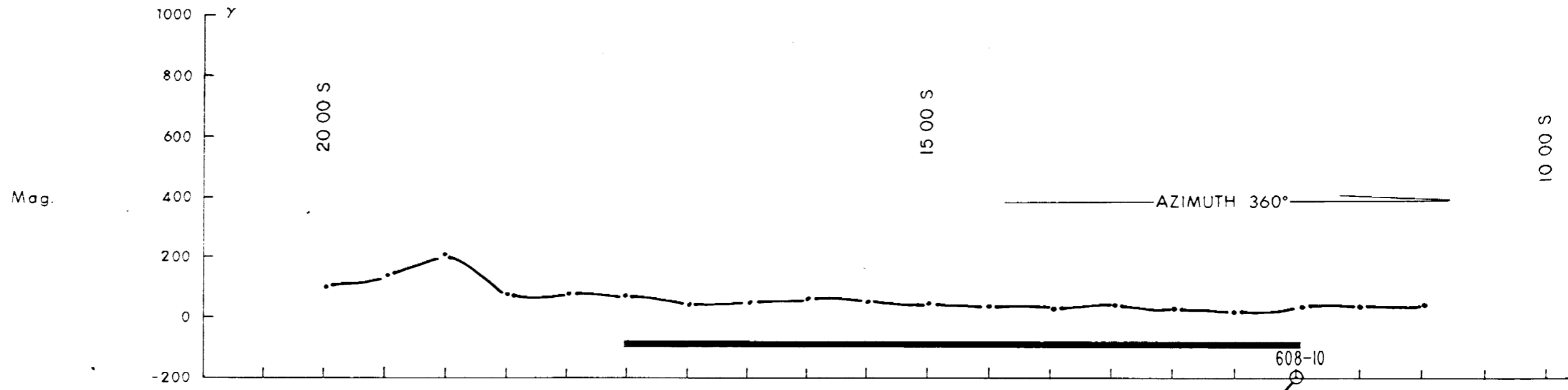
LEGEND

- 3 Greywacke, 3a greywacke, 3b greywacke and argillites
- Graphite, graphitic sediments
- Definite I.P. surface projection of anomalous zone
- Magnetic profile

63.4484

FALCONBRIDGE LTD / LTÉE		
PN - 608 HOYLE PROPERTY		
VERTICAL SECTION 608 - 10		
Journal par / Logged by	C. S. BRUCE	84/10
Revisé par / Revised by	M. BÉRUBÉ	42 A/11
Dessiné par / Drawn by	GÉODES	85/01
Revisé par / Revised by		
Echelle / Scale		1:1200 100' / 200'

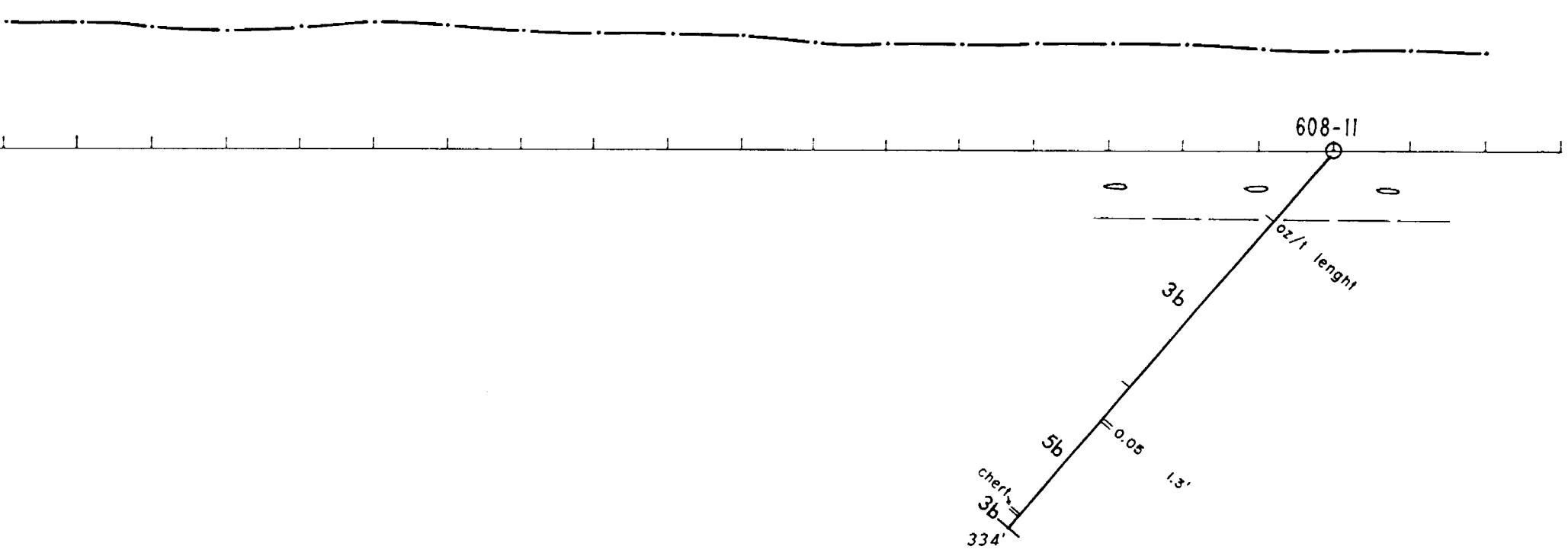




35+00 S

30+00 S

AZIMUTH 360°



LEGEND

5 Arenite, 5b sublithic arenite.

3 Metasediments: greywacke,
3b greywacke and argillites.

Chemical sediment chert.

63.4484

FALCONBRIDGE LTD/LTÉE

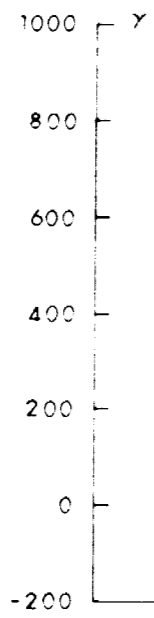
PN-608
HOYLE PROPERTY

VERTICAL SECTION
608-11

Logged by	C.S. BRUCE	Date	84/10	
Supervisé par	M. BÉRUBÉ	Date		N.T.S.
Dessiné par	GÉODES	Date	85/01	42 A/11
Revised by		Date		PL 100
Scale	1:1200	Echelle	100	200



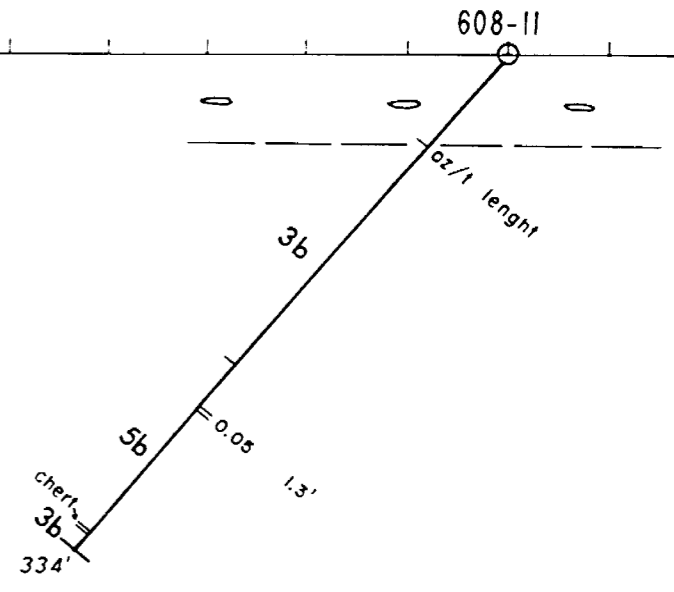
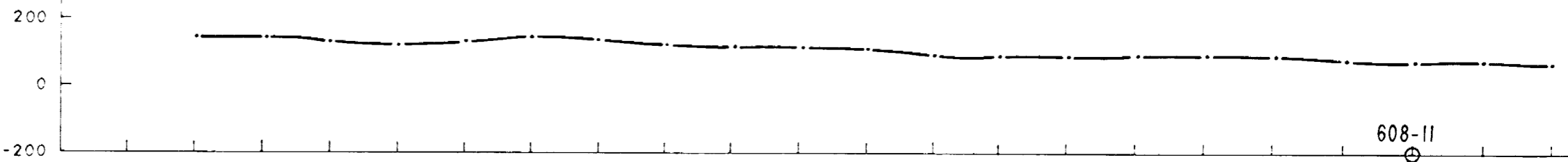
Mag.



35+00 S

30+00 S

— AZIMUTH 360° —

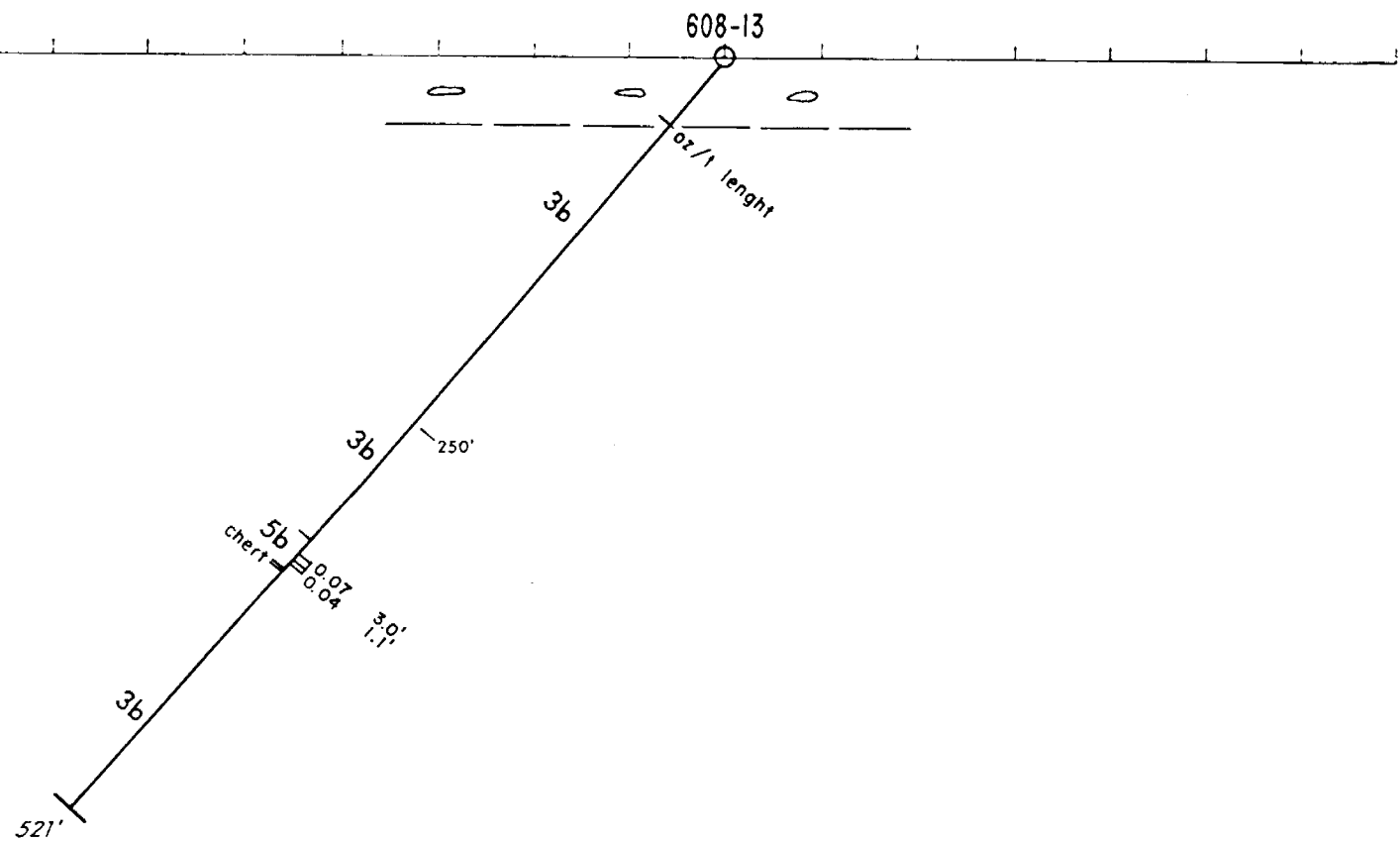


35+00 S

30+00 S

25+00 S

— AZIMUTH 360° —

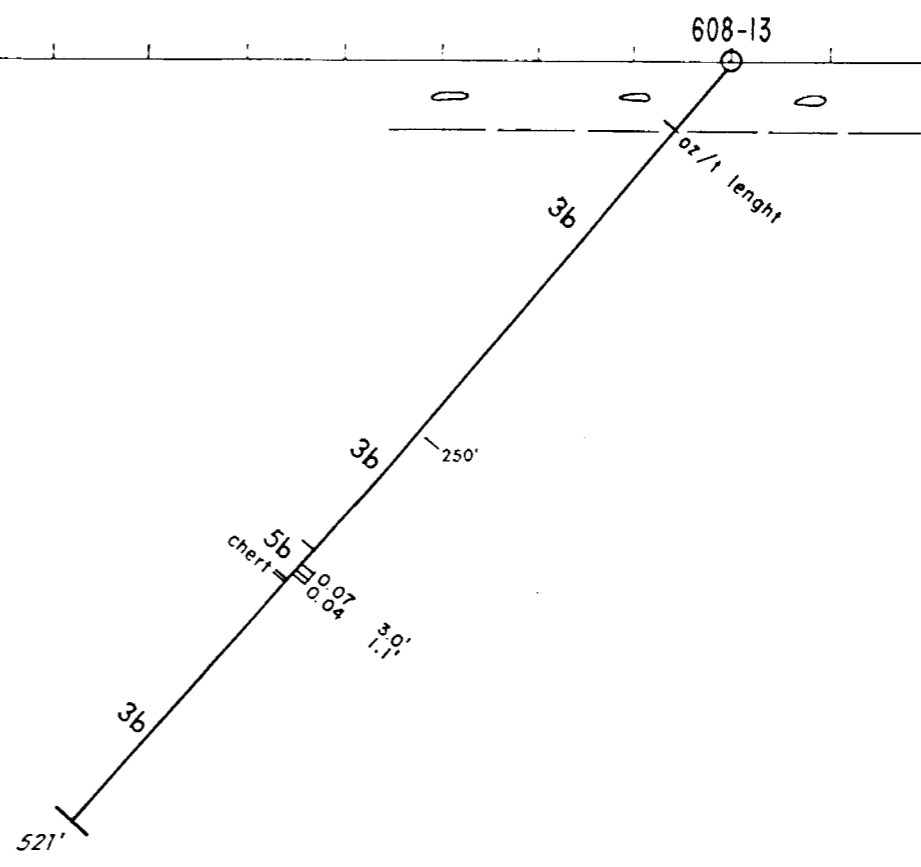
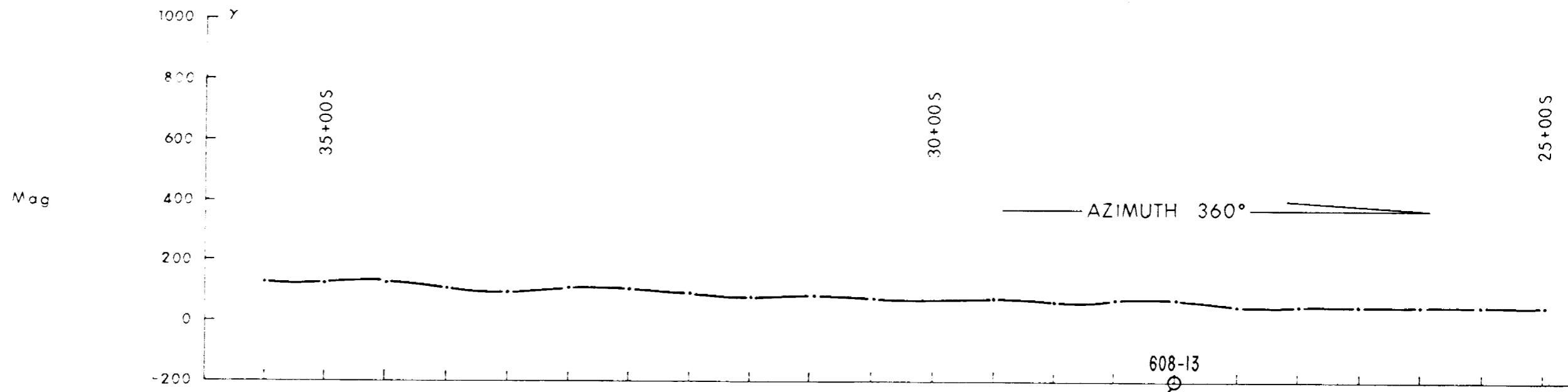


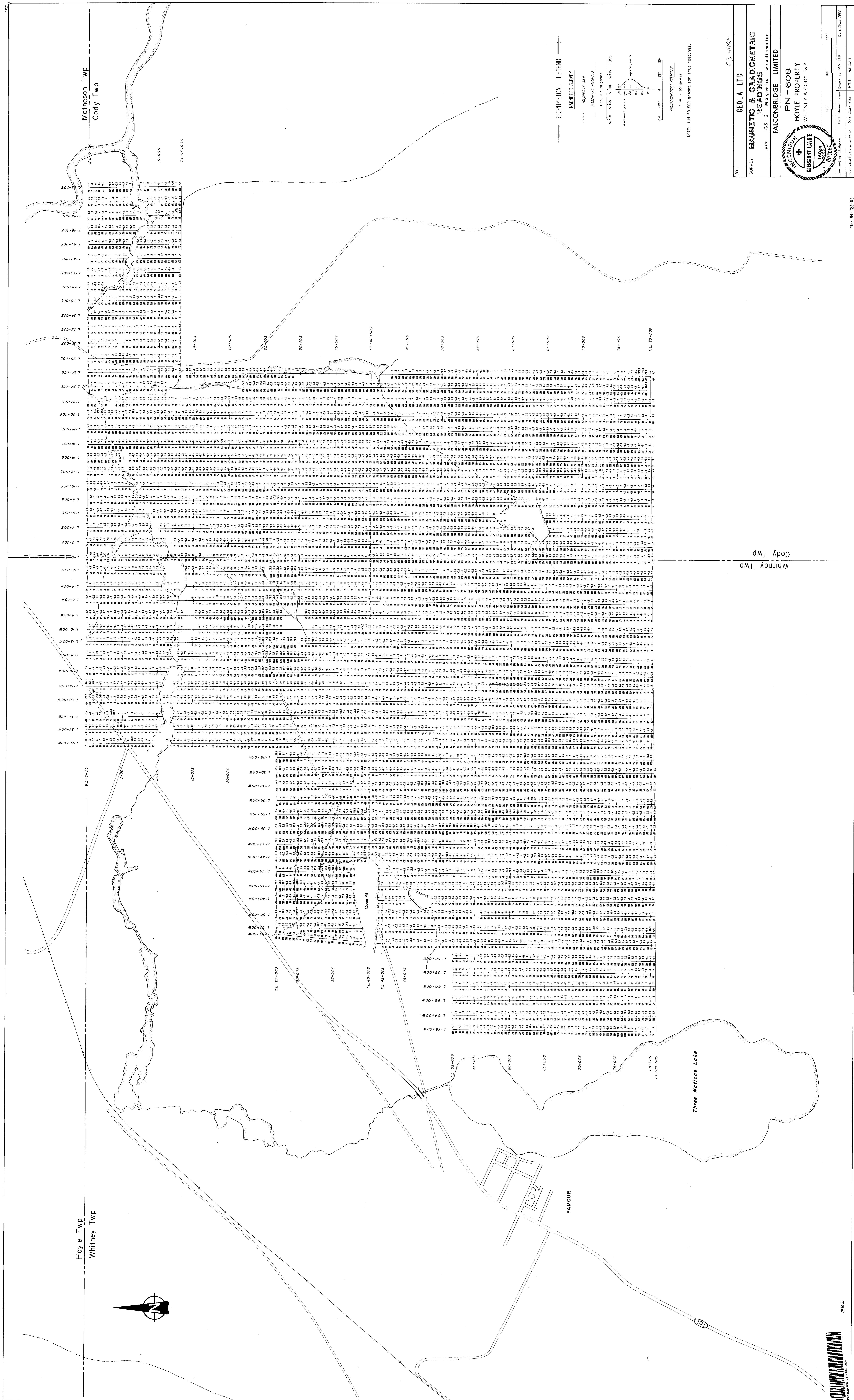
LEGEND

- 5 Arenite 5b sublithic arenite.
- 3 Metasediments: greywacke, 3b greywacke and argillites.
- Chemical sediment chert.

63.4484

FALCONBRIDGE LTD/LTÉE		
PN-608 HOYLE PROPERTY		
VERTICAL SECTION 608-13		
Drawn by C.S. BRUCE	84/10	
Checked by M. BÉRUBÉ		42 A/11
Designed by GÉODES	85/01	
Revised by		
Scale: 1:1200		Sheet: 200





GEOPHYSICAL LEGEND

MAGNETIC SURVEY

Magnetic Intensity

MAGNETIC PROFILE

1 in. = 100 gamma

5000 3000 2000 1000 0 1000 2000 3000 4000

PROFILING SCALE

1 in. = 100 gamma

NOTE: Add 58,800 gamma for true readings.

BY: **GEOLA LTD**

SURVEY: **MAGNETIC & GRADIMETRIC READINGS**

Instr.: IGS-2 Magnetic Gradiometer

FALCONBRIDGE LIMITED

PN-608

HOYLE PROPERTY

WHITNEY & CODY TWP.

LEGENIER

CLERMONT LAVOIE

63,444.4

Reviewed by: C. Gower, P.G. Date: Sept. 1984

Drawn by: M.P.L. Date: Sept. 1984

Checked by: M.P.L. Date: Sept. 1984

Scale: 1:50,000

Projection: UTM

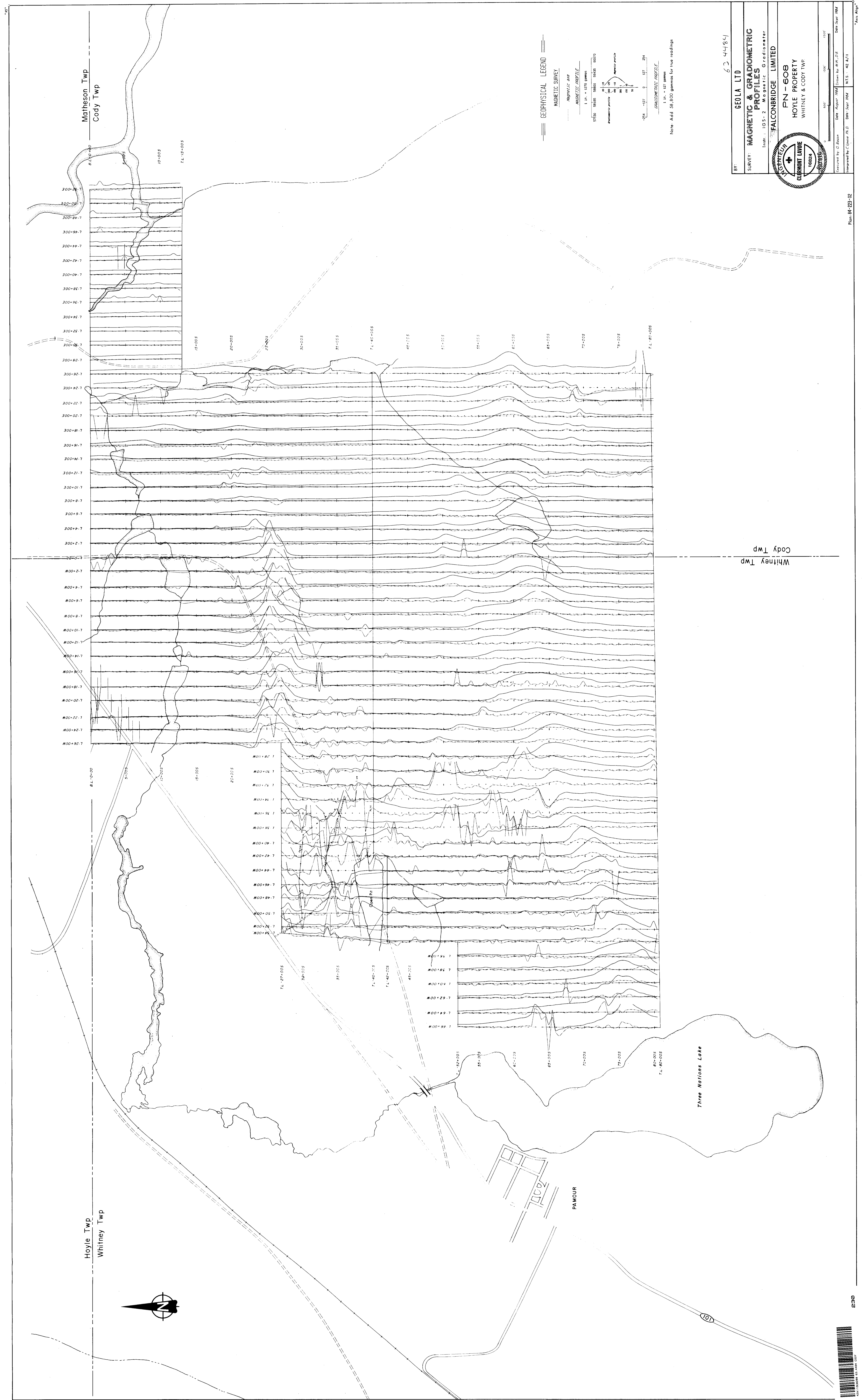
Zone: 18N

Datum: NAD 83

Units: Meters

Sheet: 84-223-03

Page: 250



Matheson Twp
Cody Twp

Hoyle Twp
Whitney Twp

Whitney Twp
Cody Twp

GEOPHYSICAL LEGEND

MAGNETIC SURVEY
Magnetic map

MAGNETIC PROFILE
1 in. = 100 gamma

GRADOMETRIC PROFILE
1 in. = 100 gamma

Note: Add 38,800 gammas for true readings

1 in. = 100 gamma

GRADOMETRIC PROFILE

BY: **GEOLA LTD**
62 4484

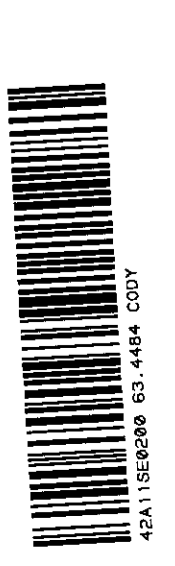
SURVEY: **MAGNETIC & GRADOMETRIC PROFILES**
Instr.: IGS-2 Magnetic Gradiometer

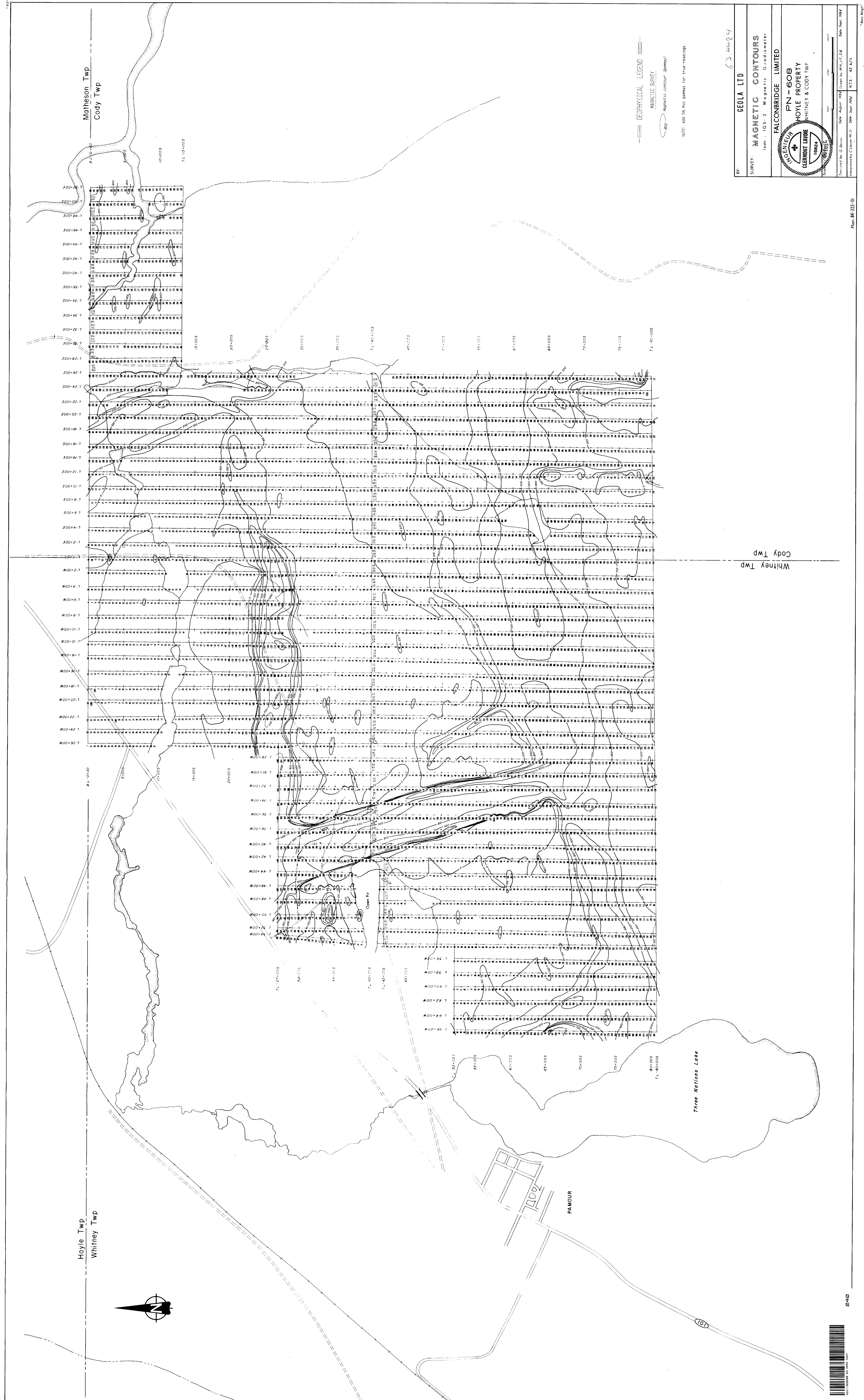
FALCONBRIDGE LIMITED

PN-608
HOYLE PROPERTY
WHITNEY & CODY TWP

18824

Executed by: G. Brown Date: August 1992 Drawn by: M.P., D.B. Date: Sept 1992
Reviewed by: C. Cooper P.E. Date: Sept 1992 N.T.S. 42 A/11





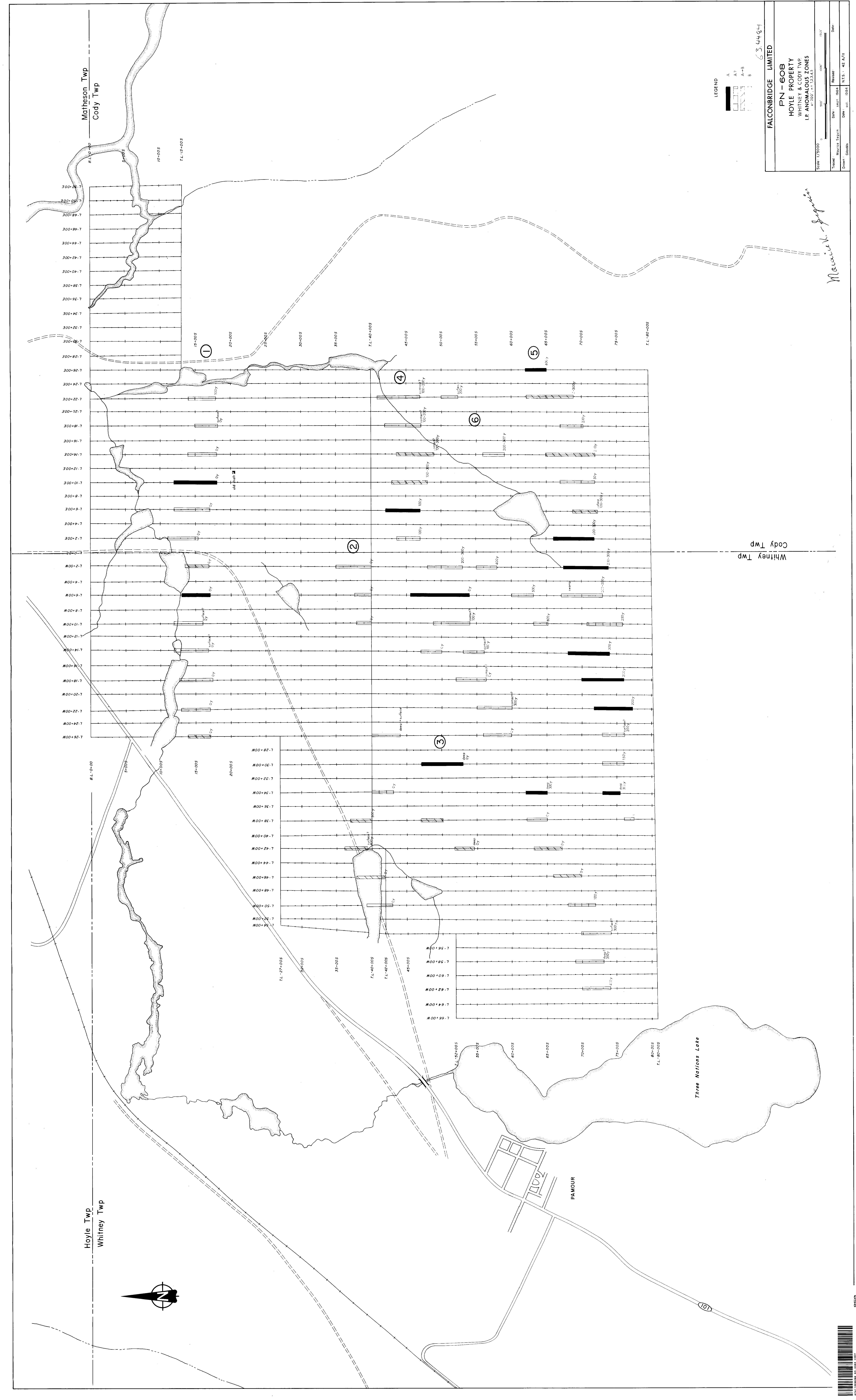
GEOLOGICAL LEGEND
 --- MAGNETIC SURVEY
 --- Magnetic contour (damaged)
 --- NOTE: All 50, 800 gammas for true readings.

63-0004

BY: **GEOLA LTD**
 SURVEY: **MAGNETIC CONTOURS**
 INSTR.: IGS-2 Magnetic Gradiometer
FALCONBRIDGE LIMITED
PN - 608
HOYLE PROPERTY
CLERMONT LAKE
WHITNEY & CODY TWP.
 Scale: 1:50,000
 Date: Aug 1984
 Drawn by: M.A., P.D.B.
 Interpreted by: C. Bacon
 Date: Sep 1982
 N.T.S.: 42.8/11
 Date: Sep 1982

Plan 84-225-01
 "Van Alst"





LEGEND
 A
 A.1
 A.2
 A.3
 A.4
 A.5
 B

634464
 FALCONBRIDGE LIMITED
 PN - 608
 HOYLE PROPERTY
 WHITNEY & CODY TWP
 I.P. ANOMALOUS ZONES
 17/2005
 Date: 18/11/2005
 Drawn: G.M.H.
 Revised: N.S. - 42, 47/1
 Date: 18/11/2005
 Drawn: G.M.H.

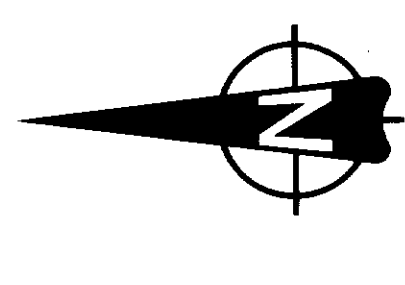
McNeill - Register

Whitney Twp
 Cody Twp

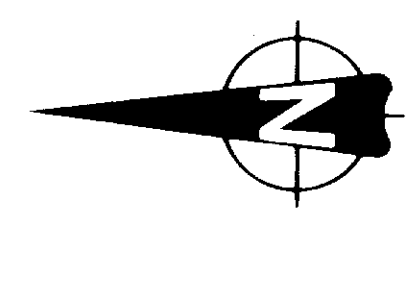
Hoyle Twp
 Whitney Twp

PAMOUR

Three Nations Lake



Hoyle Twp
Whitney Twp



LEGEND

6.	KEEWATIN
5.	Diabase
4.	TIMSKAMING
3.	Quartzite, c. chlorite fragments
2.	Slate
1.	Greywacke
0.	Schist
1.	Siliceous gneiss
2.	Conglomerate, pebbles, c. chlorite
3.	Agglomerate
4.	KEEWATIN
5.	Greenstone, unfoliated
6.	Flow basalts
7.	Carbonated basalts
8.	Serpentine
9.	LEVEL 1800
10.	LEVEL 1000
11.	LEVEL 200

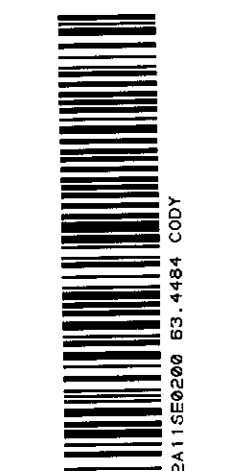
Parcour geology from O.D.M. S.A. Egan, 1978
Revised geologic survey by M. Knicker, 1972

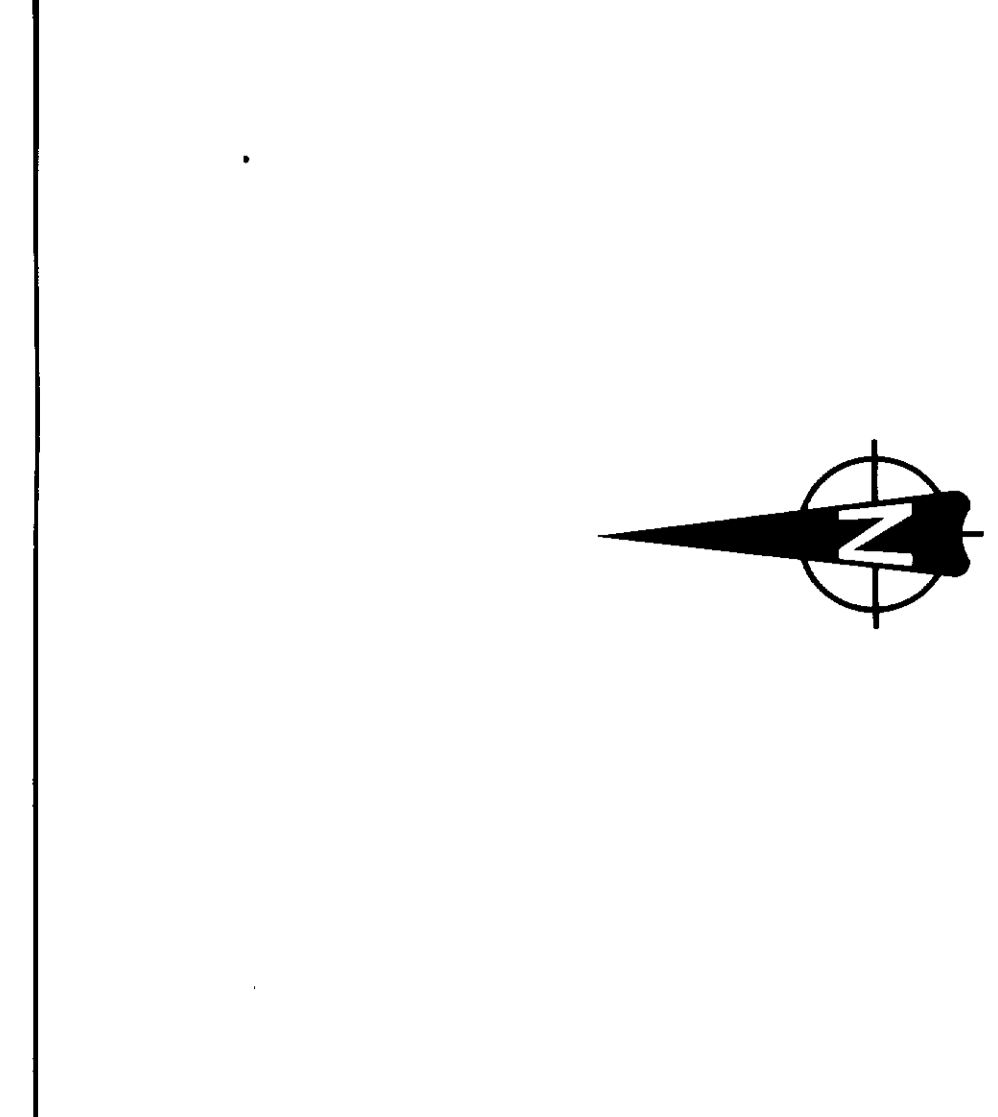
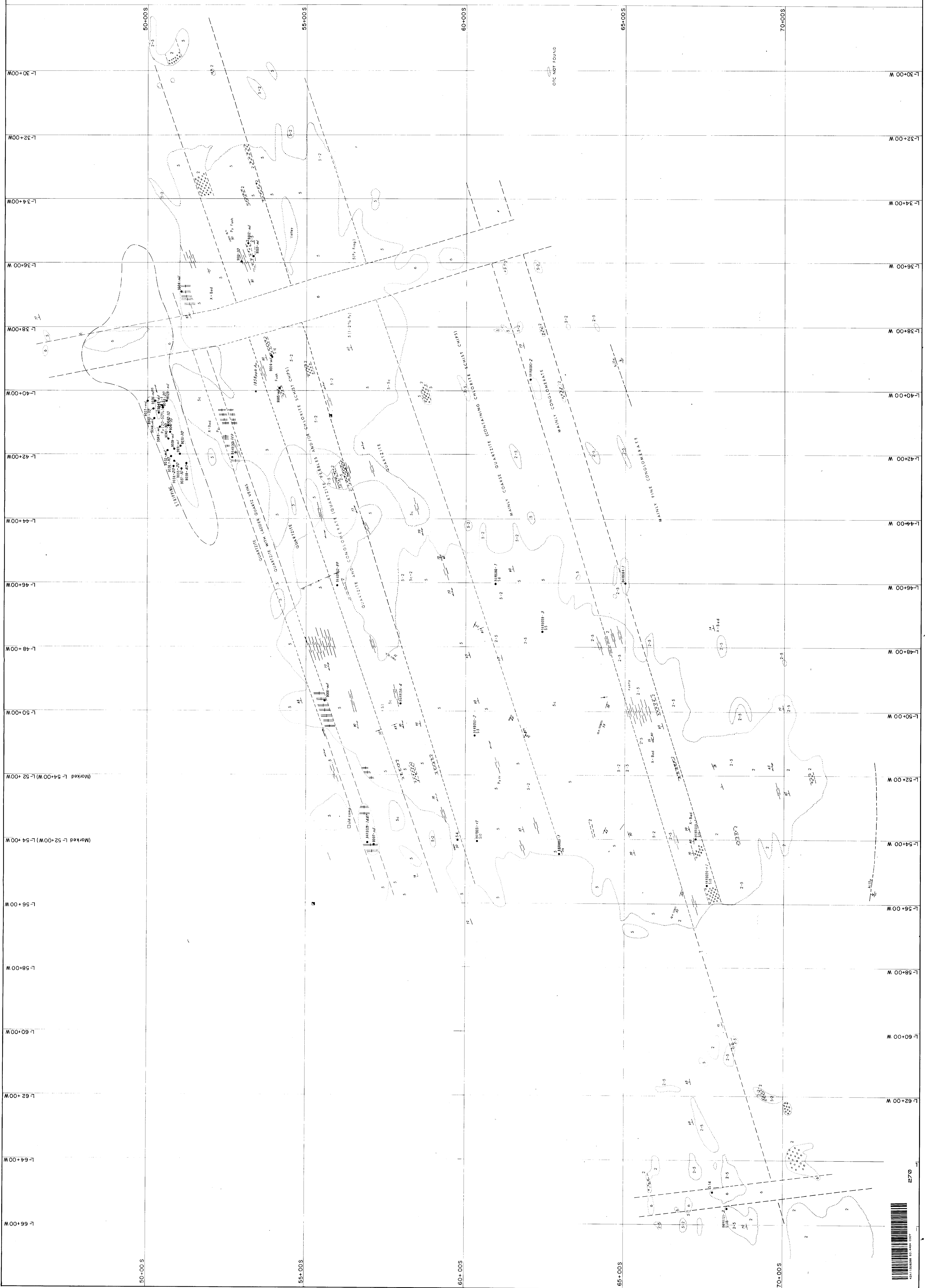
FALCONBRIDGE LIMITED

PN - 608
HOYLE PROPERTY
WHITNEY & CODY TWP
GEOLOGY 63-11-84

Scale: 1:50,000
Date: Sep 1984
Author: M. Brubak
Sheet: 1 of 2

Whitney Twp
Cody Twp





Scale 1:10,000

LOCATION MAP

6	diabase dyke
5	quartzite
5-2	conglomeratic quartzite
2-5	fine conglomerate
2	pebble conglomerate

rock sample number and location

pyrite

Fuch

c

a

5-5-5

X-bed

bedding a) inclined b) vertical c) unknown d) overturned

schistosity a) + + + + b) + + + + c) + +

joints a) + + + + b) + + + + c) + +

quartz veins a) + + + + b) + + + + c) + +

contacts a) observed b) assumed

shearing

outline of outcrop areas

trench

pit

hill contour

63,448-4

FALCONBRIDGE LIMITED

FN - 608

HOYLE PROPERTY

WHITNEY & CODY TWP

GEOLOGICAL SURVEY

ROCK GEOCHEMISTRY

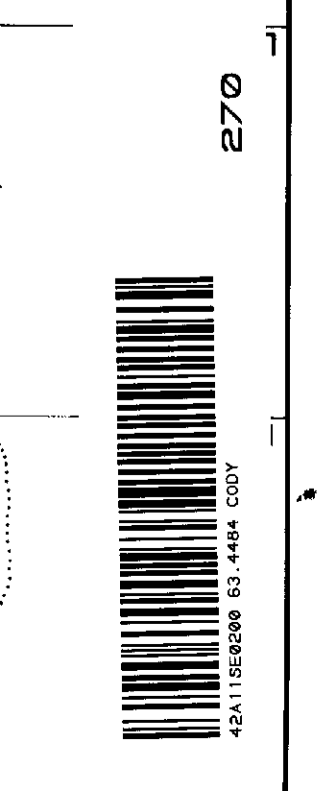
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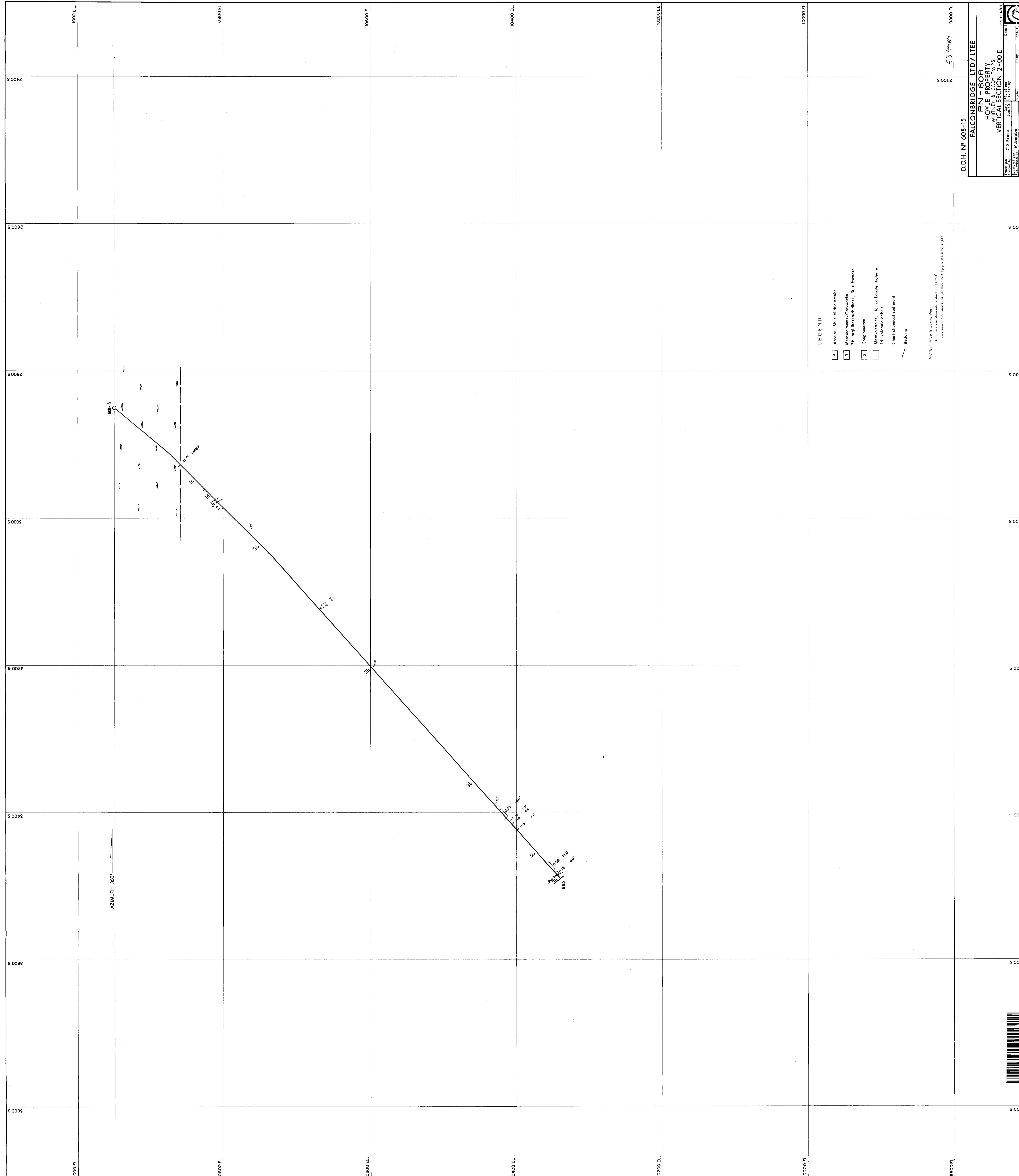
Drawn: G. G. G.

Date: Nov. 84

Checked: P. P. P.

Approved: P. P. P.





- LEGEND**
- 3b siltstone arenite
 - 3a sandstone (volcanic) - sh. siltstone
 - 2 Conglomerate
 - 1 Metadiorite, i.e. carbonate hostite, volcanic debris
 - 1d Chem. chemical sediment
 - Bedding

NOTES: View is looking West
 All elevations established at 10:00
 Conversion factor used: 1 in. = 100 ft (1:100)

DD.H. Nº 608-15
 FALCONBRIDGE LTD/LTEE
 PN - 608
 HOYLE PROPERTY
 MINE & COY TAPS
 VERTICAL SECTION 2+00 E

DATE: 15/04/84
 DRAWN BY: M. Bruce
 CHECKED BY: M. Bruce
 SCALE: 1" = 100'



