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FALCONBRIDGE LTD
1984 DRILLING REPORT
LUDGATE LAKE GOLD ZONE
GARRISON OPTION "MICHAUD TOWNSHIP" PN-620
FEBRUARY 22 1985 MAGLOIRE BERUBE, P. ENG.

SUMMARY

During the summer of 1984, acting as consultant for Jean Boissonnault, exploration manager for Falconbridge Ltd, the author recommended and supervised a diamond drilling program on the Ludgate Lake gold zone on the Garrison Creek option in Michaud township, Ontario. J. Andre Carrier, consultant, supervised the field program in the area. The work done outside the Ludgate gold zone will be summarized in a report prepared by A. Carrier.

The following pages do not only present the results obtained during the last diamond drill campaign on the Ludgate Lake gold zone but also include a summary interpretation of all the work done to date on that zone, including an up-to-date mineral inventory of the central zone.

The five diamond drill holes totalling 6532 feet drilled across the Ludgate gold zone returned the following low grade gold intersections, listed by zones and in oz/t here below, with the hole's numbers in parentheses:

SOUTH ZONE	CENTRAL ZONE	NORTH ZONE	ERRATIC ZONE
0.095/8.0(04)	0.064/12.5(03)	0.145/4.0(09)	0.635/1.0(13)
0.080/8.0(13)	0.150/13.0(09)	0.250/9.0(13)	0.09/15.0(14)
0.140/5.0(14)			

The intersections from the southern, the northern and the erratic zones are not included in the mineral inventory because not supported by corresponding good grade intersections on adjacent sections so only the 2 new intersections belonging to the central zone has been added to the 1984 mineral inventory, increasing it by only 78 000 short tons to about 800 000 short tons still averaging 0.10 oz Au/t.

A more generalized study on geology and gold distribution shows that the associated rock types, structures, alterations and mineralization are either too wide, too gradual or too irregular to be used as ore markers. The potential at depth has not improved because the two deepest holes have returned the lowest grade and the less developed alteration.

Consequently, the 1985 results are disappointing. No other work is recommended because of the too low grade and the lack of good markers for the gold zone, specially in the present depressed gold market.



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TABLE OF CONTENT

	page
Summary.....	2
Table of content.....	3
Introduction.....	4
Description.....	4
Local geology.....	4
Previous work.....	5
Recent work.....	5
Results of recent work.....	6
1-Ludgate Lake gold zone.....	6
2-Trench	9
General interpretation.....	10
1-Geology	10
2-Mineral inventory.....	12
3-Method of calculation.....	13
Conclusion.....	14
Recommendations.....	14
References.....	15
Certificate.....	17
Sketches -claim map.....	4a
-diabase dike-magnetic inversion.....	6a
-diabase dike-mag.and gradiant.....	6b
Annexes 1: Excerpts from "Evaluation...by Berube M. 1984	
D.D.H. logs 620-03-04-09-13-14..with the general log book	
Geological and geochemical plans of trench.....in pocket	
Composite plan and longitudinal sections(2)....in pocket	
Transversal sections (26).....in tube	

INTRODUCTION

The main purpose of the present report is a new mineral inventory of the Ludgate Lake gold zone to include the results of the diamond drill campaign recommended and conducted since our inventory of last July. The work done in 1984 on the rest of the optioned property will not be included herewith, that work being reported separately by J. Andre Carrier.

DESCRIPTION

The Garrison Creek property in Michaud township comprises the 46 following claims numbered:

L-40909 to L-40923	L-539924 to L-539926
40928 to 40934	539946 to 539951
45149 to 45159	610563 to 610566
46238 to 46239	

Falconbridge Ltd acquired an option on the property from Garrison Creek Consolidated Mines Ltd in May 1979. The Ludgate Lake gold zone under review is mostly centered on claim L-40917 or on the northwestern shore of the Ludgate lake or pond.

The property is located 65 miles east of Timmins, Ontario, 30 miles west of the Province of Quebec border and 3 miles south of highway 101 to which the Ludgate lake is connected by a sinuous dirt road easily travelled with a pick-up truck in summer time.

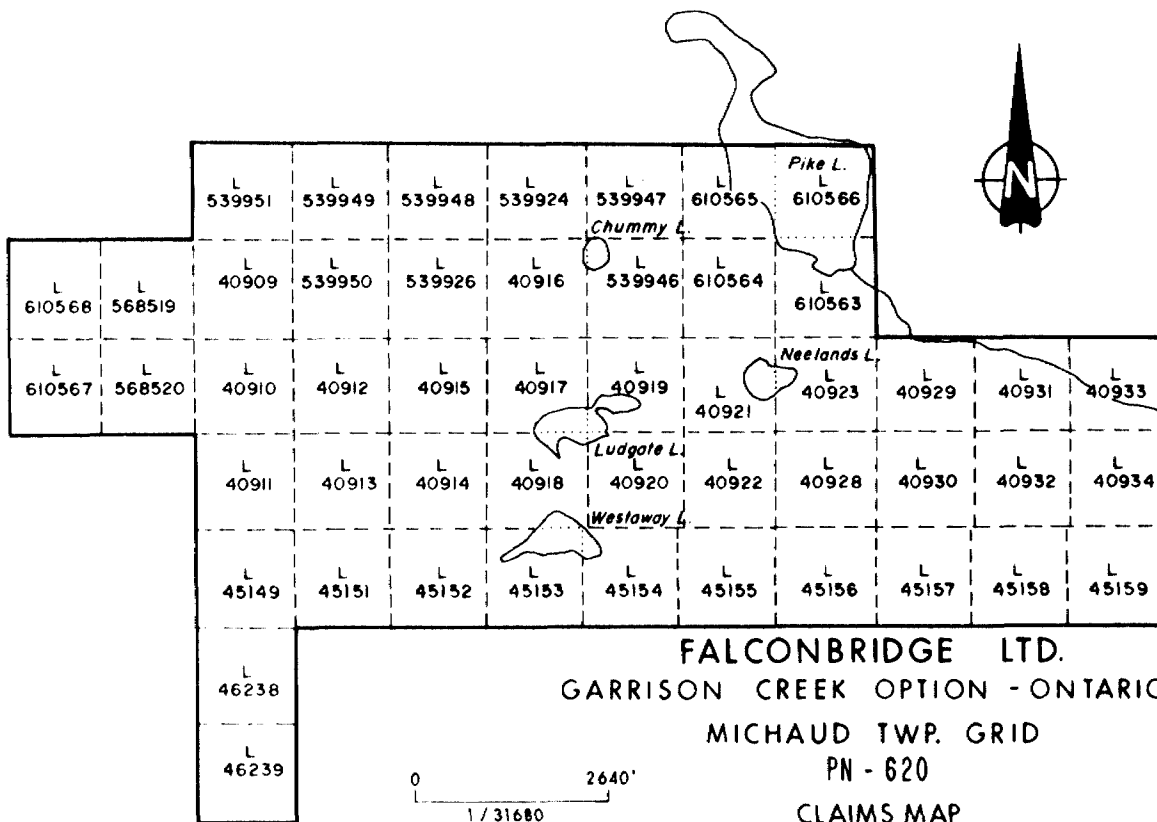
Room and board plus office facilities were provided by Perry Lake Lodge, outfitter located just one mile west of that junction.

LOCAL GEOLOGY

The regional geology is best described by the Ontario Department of Mines (Satterly J., 1948) and the property geology, by Falconbridge Ltd (Carrier J. Andre).

The Ludgate Lake gold zone itself is all comprised within the eastern contact of a syenite porphyry stock intruded across or just north of the Destor-Forcupine break. That zone can be more readily described as an east-west trending and steeply north dipping structure characterized by fracturation (faulting, shearing and brecciation), alteration (chlorite, sericite, potash, silice) and mineralization (gold, pyrite and hematite). A younger NNE trending diabase dike crosses the center of the syenite-hosted Ludgate Lake gold zone.

Outcrops are very scarce on the property as in the whole township, the bedrock being mostly covered by a thick cover of sand dunes or swamps. The only known outcrop in the Ludgate Lake zone forms a low, north-south ridge which had now been stripped twice along its 500 foot length.



PREVIOUS WORK

The references listed at the end of this report give a good idea of all the work performed to date on the whole property, work that had been concentrated on the Ludgate Lake zone itself.

The diamond drilling which constitutes the main source of information and accounts for most exploration expenditures had been carried out during 2 main campaigns:

Company	Years	Holes	Footage
Marchaud Mines	1946-47	24	15600
Falconbridge Nickel	1980-81	14	9993

All known research works have been accomplished by Falconbridge since 1979 and are grouped in 3 categories shown here below:

- local geophysics(Mag., gradient, IP, VLF);
- studies and assays(petrographic, metallurgical, geochemical);
- evaluations(mineral inventory calculations, financial analysis).

RECENT WORK

In 1984, the property has been intensively explored again by two consulting geologists working under the authority of Jean Boissonnault, manager of the eastern Canada exploration office of Falconbridge Ltd: J. Andre Carrier, charged of the geophysical and of the diamond drill campaigns on the whole property, and the author, specially responsible of the Ludgate Lake gold zone, although both geologists worked in collaboration.

The author's work was realized in 3 stages: preparation, field work and re-evaluation.

The preparation stage accomplished during the spring of 1984, comprised the 4 following steps: compilation, interpretation, mineral inventory calculation and diamond drill recommendations. This work has already been summarized on a few pages here enclosed in annex 1.

The field work consisted of 7 diamond drill holes plus stripping. Five holes aggregating 6532 feet have been drilled across the Ludgate Lake gold zone. Two of them have been described by the author and the two others, by J. A. Carrier. The last two holes drilled in the stripped area have been decided and described by J.A. Carrier who supervised the stripping and did the mapping of the trench. The well detailed documentation on the stripped area is included herewith because belonging and adding to the Ludgate Lake gold zone and being self-explained.

The re-evaluation of the zone or the third stage of this work which constitutes the main objective of this report will now be discussed below.

RESULTS OF RECENT WORK

Holes 620-03, 04, 09, 13 and 14 were drilled across the Ludgate Lake gold zone to enhance the mineral inventory whereas the trench was stripped and drilled (holes 620-21 and 620-22) to obtain complementary information about the structure and the lithology. Then let's separate the results of each type of work.

1- Ludgate Lake gold zone drilling

In the past, an important area had been left undrilled in the middle of the gold zone and at depth for fears to stay in the barren diabase dike cross-cutting the zone. Furthermore, judging from hole MIC-1-80 which intersected 0.186 oz Au/t over 30.5 feet at a vertical depth of 400 feet, one could believe that the grade could improve approaching the dike or at depth, specially assuming that the diabase could have filled the old channel by which came the mineralization.

Before verifying that hypothesis by diamond drilling, we tried to determine the attitudes of the diabase contacts. It was done in two different ways, by geometry and by geophysics. First, the author applied the three point solution to 4 positions known from diamond drilling to find the two theoretical contacts of the diabase dike and then projected them on the composite plan, on the longitudinal section and on all transversal sections. Meanwhile, a geophysicist positioned the same contacts on 2 geophysical sketches, using the results of 2 different Mag. and gradient surveys done in 1982 and 1984 on short lines across the dike. But there was a discrepancy up to 150 feet between the 2 approaches, the geophysical contacts being shown much farther west than the geological contacts.

Now, let's summarize the diamond drill results in two complementary forms, a description for each hole and a table listing the main gold intersections. In the description, reference will also be made to geochemical results obtained from systematic core sampling and assaying, results also shown as bar-graphs along holes on new sections.

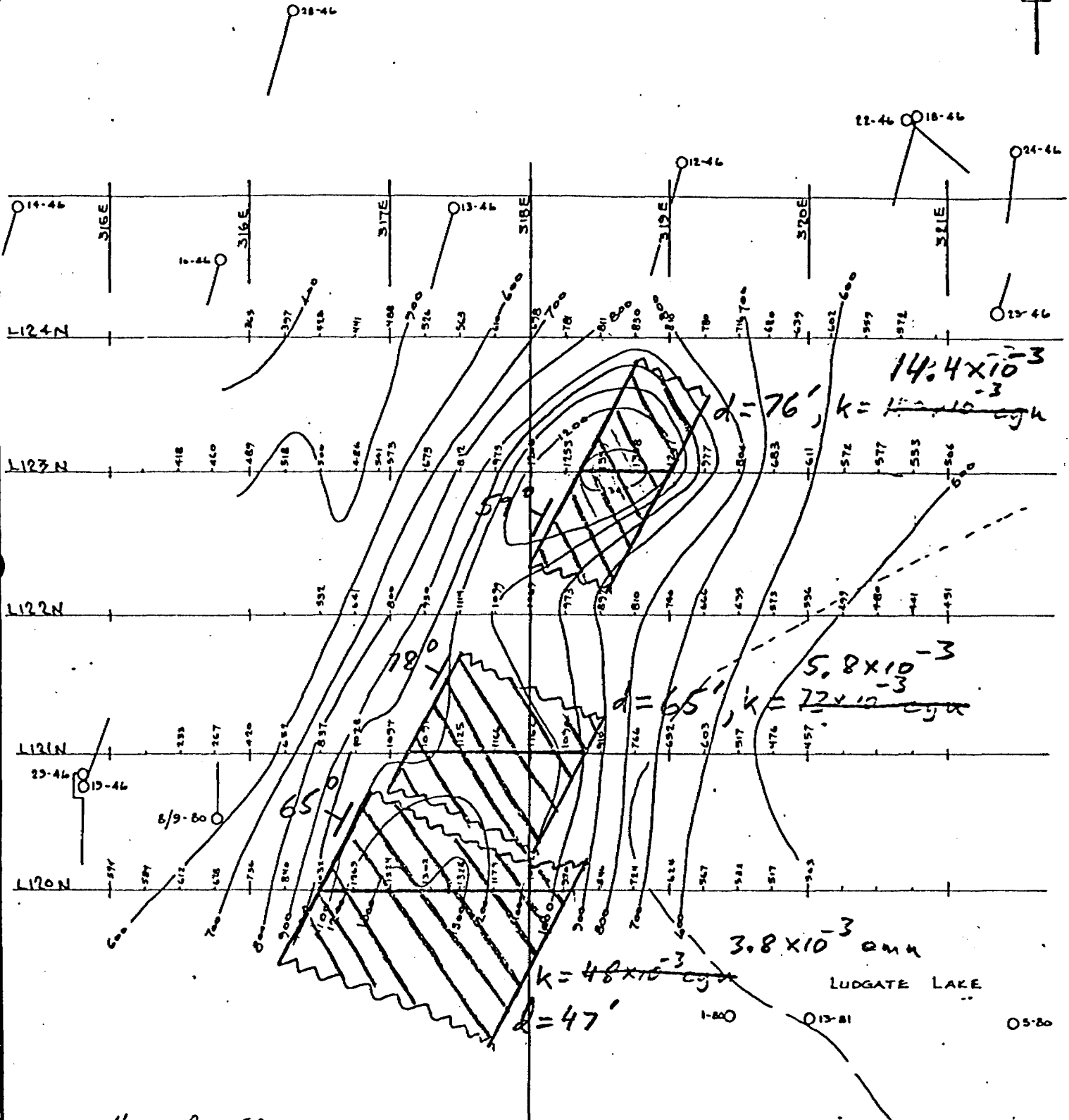
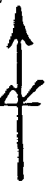
a) Hole 620-03

Drilled on section 9670m E, this hole was intended to sample the main gold zone 75 feet west of the diabase dike, 360 feet vertically below the surface or 425 feet downhole. The hole traversed the diabase-syenite contact at 177 feet and encountered the alteration zone from 382 to 435 feet including a still more highly altered and brecciated section from 397 to 428 feet. The best gold values average 0.064 oz/t over 12.5 feet if including a 8-foot barren section.

The gold geochemical profile traced along the hole on the 1:400 section shows a moderate anomaly (364-373.5) corresponding with the alteration halo.

MAGMOD modelling results

TABULAR 2 models



NOTE: ADD 58,000 TO GET
TOTAL MAG. READING

FROM FALCONBRIDGE
MAP FILES - PLEASE RETURN

FALCONBRIDGE NICKEL MINES LTD.	
PROTON MAGNETOMETER SURVEY	
LUDGATE LAKE ZONE	
MICHAUD TWP.	
SCALE 1" = 100'	DRAWN 01

L-312E

L-314E

L-316E

L-318E

L-320E

L-322E

L-324E

B.L. 127N

L-125N

L-123N

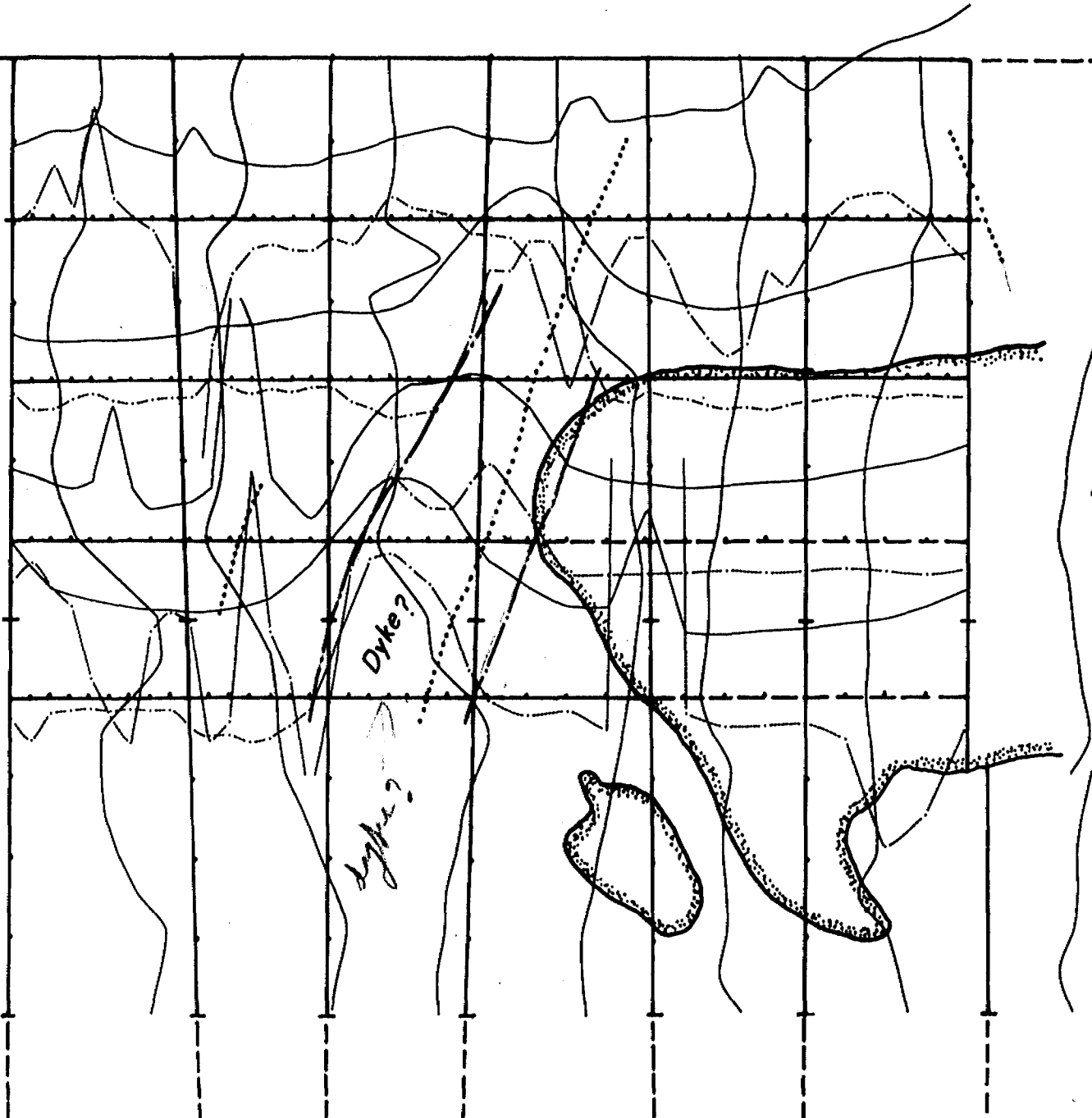
L-121N

L-119N

Dyke?

Dyke?

LUDGATE
LAKE



b) Hole 620-04

Drilled on section 9730m E, this 1392 feet long hole was intended to sample the main gold zone 75 feet east of the diabase dike, 680 feet vertically below the surface or 850 feet downhole. It first encountered the southern alteration halo(626'-715') containing 0.095 oz Au/t over 8.0 feet (655.0-663.0), then penetrated the central or main alteration halo(804-962) cutting only one gold assay of 0.14 oz/t over 1.0 foot(863.5-864.5) and finally passed through the northern alteration halo(1144-1226) which yielded a wide, low grade gold intersection averaging 0.026 oz/t aver 26.0 feet (1196-1218). It is worth mentioning the presence of quartz veins at 636(1') and at 1151 (14').

The gold geochemical profile largely corresponds with the 3 alteration halos although very weak over the southern one.

c) Hole 620-09

Drilled on section 9610m E, this 1446 feet long hole was supposed to sample the main or central gold zone at about 100 feet west of diabase, 750 feet vertically or 900 feet downhole. It encountered a quartz vein (879.0-889.5) without much outside alteration, underneath a diabase branch, vein which assayed 0.15 oz/t over 13.0 feet (881.5-894.5). The southern zone was not observed nor detected assaying but the hole encountered two gold zones in the northern alteration halo(1072-1211):

0.145 oz/t over 4.0' (1098.0-1102.0)

0.034 oz/t over 66.5' (1130.0-1196.5)

The gold geochemical profile is very weak over the southern halo, strong over the quartz vein in the central zone and wide but weak over the northern halo.

d) Hole 620-13

Drilled on section 9570m E, this 1503 feet long hole was intended to verify the central zone at 850 feet vertically below the surface or at 1000 feet downhole. It encountered a wide alteration halo containing all of the 3 gold-bearing zones which yielded the following results:

0.635 oz/t/ 1.5' (309.0- 310.5), erratic along fracture

0.08 oz/t/ 8.0' (753.0- 761.0), in the southern zone

0.046 oz/t/ 8.0' (996.0-1004.0), in the central zone

0.25 oz/t/ 9.0' (1148.0-1157.0), in Q.V. of north zone

0.046 oz/t/44.0' (1181.0-1225.0), in second north zone

The gold geochemical profile shows a series of unexpected weak anomalies in the first portion of the hole over fractured sections, a rather weak expression over the southern and central halos but a well defined double peak anomaly over the southern halo.

e) Hole 620-14

Drilled on section 9770m E, this 1486 feet long hole was supposed to test the main gold zone at a vertical depth of 885 feet or 1025 feet downhole. It first encountered a premature 15 foot long gold intersection averaging 0.09 oz/t (629.0-644.0) associated with red dikes (597-644), then a 5 feet section averaging 0.14 oz/t (842.5-847.5) inside an alteration halo (884-893) considered as the projection of the southern zone and finally some low values in the northern alteration halo (1091-1201) but did not encounter any gold intersection or alteration halo right on target.

The gold geochemical profile is weak over the southern alteration halo, absent over the missing central zone and very weak over the northern halo.

From those last five holes, it seems that the intensity of the geochemical results is proportional to the gold content as well as to the fracturation, another strong argument supporting the idea that gold is structurally controlled.

TABLE OF MAIN GOLD INTERSECTIONS

HOLE	FROM - TO	LENGTH	GRADE	ZONE	REMARKS
620-	ft ft	ft	oz Au/t		
03	413.5- 416.0	2.5	0.10	C	"granulated"
	416.0- 424.0	8.0	0.01	C	
	424.0- 426.0	2.0	0.22	C	"granulated"
	(413.5- 426.0	12.5	0.06	C	average)
04	655.0- 663.0	8.0	0.095	S	
	863.5- 864.5	1.0	0.14	C	
	1196.0-1218.0	26.0	0.026	N	
09	881.5- 894.5	13.0	0.150	C	
	1098.0-1102.0	4.0	0.145	N(1)	
	1130.0-1196.5	66.5	0.034	N(2)	
13	309.0- 310.5	1.5	0.635	-	erratic
	753.0- 761.0	8.0	0.08	S	
	996.0-1004.0	8.0	0.046	C	
	1148.0-1157.0	9.0	0.25	N(1)	
	1181.0-1225.0	44.0	0.046	N(2)	
14	629.0- 644.0	15.0	0.09	?	erratic
	842.5- 847.5	5.0	0.14	S	

The new mineral inventory will include the valuable intersections from the central or "C" gold zone only, forgetting the ones from the southern and northern ones.

2- Trench work

As shown on 2 plans at 1:400 scale in pocket, the stripped area has the shape of a plus(+) sign with a longer axis measuring 625 feet in a north-southeast direction and a shorter axis measuring 250 feet in an east-west direction. 41000 cubic feet of soil has been mechanically removed and 15000 square feet of bedrock has been water-jet washed before mapping and sampling.

The geological mapping succeeded in establishing the age and structural relations between the different phases of the syenite even if 50% of the bedrock surface remained under the water table. The geochemical sampling shows that the red pegmatitic or lath phases of the syenite have a higher gold content than the more common pinkish phases. Both geological and geochemical maps of the trench are worth more than a thousand words so they will not be described in detail here but rather reported to the next chapter describing the geological aspects of the co-magmatic serie, descriptions also based on diamond drill core observations. One should keep in mind that the main mineralized gold zone passes at only 65 feet south of the southernmost rock exposure in the trench or at the altitude 124+30 N(or 3790 meters N as shown on transversal sections).

Two short holes numbered 620-21 and 620-22 have also been drilled across the white aplitic syenite dike in the northern part of the trench to surround the high gold assays obtained from local gold sampling. The finely laminated and cross-faulted northwest contact of the so-called white aplitic syenite might be responsible for the local gold concentrations and the white color of the footwall syenite (color rarely observed elsewhere) may be a bleaching effect caused by the shear. Hole 620-21 returned one gold value of 0.07 oz/t over one meter plus other values of 0.03 oz/t or less inside the white dike but hole 620-22 did not return any values over 0.03 oz/t. The white dike is 10 feet wide. Both contacts are oriented 220 degrees (azimuth) but the hanging wall is dipping 45 degrees west and the foot wall, 60 degrees west.

GENERAL INTERPRETATION

The mineral inventory depends on qualitative and quantitative data, both obtained from geological observations and from assay results, respectively, subjects that will be commented separately here below before treating the mineral inventory itself.

1- Geology

Let's review briefly the lithology, structure, alteration and mineralization of the gold zone in order to better appreciate their genetic and/or spatial correlation with the corresponding weighted averages of the gold content.

a) Lithology

The syenite hosting the gold zone is a complex mixture of related intrusions qualified as equigranular, porphyritic, lath, pegmatitic, mafic (or basic and even lamprophyre) according to the color and the fabric of the syenite. The most common type is called a pinkish, slightly porphyritic syenite. The second type in abundance seems the reddish pegmatite and/or lath porphyry, probably different names applied to extreme granularities of a same phase, both textures being often mixed or gradual in a same dike. The mafic or basic syenite is equigranular, pinkish grey with light to dark greenish tinges and is probably the equivalent of the slightly porphyritic syenite having digested some basaltic country rock near the top or the eastern contact of the stock. The diabase dike which intrudes them all is much younger and barren of gold.

b) Structure

The three main types of structures are contacts, joints and faults.

All contacts are intrusive (syenite in basalt, red dikes in pinkish syenite, diabase in them all). The general north-south trend of the reddish dikes observed in the trench confirms the author's opinion that the gold zone is not related to a specific phase of syenite and that no attempt should be made on sections to rely those phases from one hole to the next and from one transversal section to the next. The contact of the diabase dike has been discussed above, in the previous chapter.

Joints as measured and plotted with geology in the trench will not be discussed in this report.

The fracture system followed by the gold zone has been observed in most holes. It is an east-west, steeply south dipping structure characterized by faulting, shearing and brecciation varying considerably in proportion, intensity and width from hole to hole. There is always one main zone and locally a weaker sub-parallel north and/or south zone.

c) Alteration

The alteration pattern is also complex. The rocks in the gold

zone area have undergone various degree of the following alterations;: hematization, sericitization, silicification, chloritization and carbonatization. Former geologists identified the gold zone by the following numbers and names: (1) for silicified, (2) for chloritic, (3) for brecciated and (4) for shistose and more often by the addition of 2 or more numbers. Later geologists classified the alteration as pinkish, reddish, brick-red and, when extremely altered, granulated brick-red. Band outlined the alteration on a set of plans and sections at 100 foot scale where the alteration halos are presented much bigger than the gold zone itself.

Hematization and potash alteration which both give the red coloration to the rock are not easily distinguished and are probably associated. The problem is that these alterations are encountered as well in the north-south trending and practically barren red dikes than in all the rocks phases cut by the east-west gold zone. That is why the intensity of the color is not gradational and cannot always be used as a safe marker by itself, unless it is "granulated".

Silicification might also be misleading because a sample described as such assayed less quartz than the unaltered equivalent(Band). The two main types of silicified structures are the quartz vein and the stringers. Quartz veins many feet wide are encountered in 50% of the gold zones. The quartz is cherty or dirty grey to pink and is often described as jasperoidal. The hairline quartz stringers characterize the other type: "Mineralization occurs in a distinct brick-red altered phase of the syenite. Intense alteration with abundant irregularly oriented hairline stringers has been given the field name 'granulated syenite' "(R.B. Band, in an inter-office memorandum to W. D. Harrison, dated May 27, 1980).

Chlorite might be a grinded, hydrated or a migrated product of alteration because often abundantly present in the main fault as a filler and also because the author noted a gradual disappearance of interstitial mafic minerals in the syenite and their replacement by quartz when approaching the gold zone.

Carbonates are rarely reported in the d.d.h.logs. In log 620-13, calcite stringers are often reported with shears (for example, from 811 to 816 feet) and in that hole, those stringers are reported in syenite as well as in diabase, suggesting that the calcite might be younger than the gold mineralization.

d) Mineralization

Apart from gold which has not been observed by the author, hematite which is sometimes crystallized as specularite, and some mention of magnetite, pyrite is the only mineral that can sometimes be used as ore indicator. Cubic pyrite is often abundantly present in the barren red dikes outside the gold zone as it is in any type of rock in the zone itself so, again, it cannot be used as a real marker. The percentage of cubic pyrite

is estimated by the author between 1 and 3 % (locally up to 5%) by volume in the well mineralized sections inside the alteration zones (1% pyrite average). The estimate by J. A. Carrier is lower.

The magnetite is probably the only cause of all variations in local magnetism. From qualitative measurements reported in log 620-09, for example, the magnetism is higher in the volcanic inclusions and moderate in the mafic or greenish phase of syenite, phase considered as having digested volcanic inclusions. Red dikes are sometimes magnetic (ex. end of log 620-09) but not enough measurements have been done to make a rule out of it.

To summarize, the gold zone is strongly and broadly indicated by many geological aspects but the ore zone itself could be indicated only by diamond drilling. It is here suggested that the gold was first introduced in small amounts in the red dikes and then concentrated in the post-red dikes fault zone.

2- Mineral inventory

The mineral inventory has been calculated a few times since 1979 and in all cases the grade is remarkably consistent, about 0.10 oz Au/t. The tonnage varies moderately from one case to the other because of choice of cut-off grade, of new intersections and of inclusions or not of parallel zones. Let's summarize the results of the previous calculations.

In an inter-office memorandum addressed to W. D. Harrison on February 5, 1980, R. B. Band concludes: "Two in-situ mineral inventory calculations have been made for the Ludgate Lake zone. In both cases the mineralized zone was assumed to have a vertical extend of 300 ft, as indicated by drilling. The more conservative calculation gave 379,000 tons (or 1263 tons/vertical foot) averaging 0.101 oz Au/Ton. More liberal assumption gave 432,800 tons(1443 tons/vertical foot) averaging 0.098 oz Au/Ton."

In an other inter-office memorandum dated March 19, 1980 and addressed to R. B. Band, G. A. Vary made a Financial Analysis based on 2 cases:

Case 1: 720,000 tons at 0.098 oz Au/t down to 400 feet, and

Case 2: 340,000 tons at 0.12 oz Au/t down to 400 feet,

to take into account the latest hole (MIC-1/80, March 14, 1980) which intersected 30.5 feet grading 0.186 oz at a vertical depth of 400 feet.

In his summary report of March 1982, R. B. Band re-evaluated the mineral inventory as follow to include the results of the 1980-81 campaign:

South zone: 82 500 t averaging 0.12 oz/t

Ludgate zone: 1 114 500 t averaging 0.098 oz/t

In July 1984, the author calculated the mineral inventory at 659 000 metric tons averaging 3.5 g Au/t (726 000 short tons averaging 0.10 oz Au/t) before dilution, within 150 meters of the diabase contact and down to 600 feet below the surface. These calculations did not include the blocks comprised in the area of influence of the recommended drill holes because the blocks were too far from previous holes, so that they could be added to the 1984 calculations, when drilled and if warranted, to complete the 1985 calculations.

In fact, if we add the significant results obtained in 1985 in the central gold zone as listed on the table on page 8x, to the 1984 calculations here annexed, we obtain the new calculation shown below, before converting from the metric to the imperial system:

TOTAL	HOLE #	SURFACE sq. m	THICKNESS meters	TONNAGE tons(m)	GRADE g/t (oz/t.)
1985	620-03	4305	2.8	32546	2.2 (0.064)
	620-04			nil	
	620-09	4875	2.9	38171	4.4 (0.128)
	620-13			nil	
	620-14			nil	

				70717	3.4 (0.10)
1984	16 in all	32550	7.5	658743	3.5 (0.10)

TOTAL				729460	3.4 (0.10)
					(802400 short tons)

3- Method of calculation

All results appear in meters and in grams per metric ton on all the transversal and longitudinal sections and also on the composite plan. The cut-off grade applied to diamond drill intersections was 3.0 grams per ton (with 2 exceptions, see table listing the 1984 calculations in annex). The volume was calculated by measuring the area of influence of each chosen intersection as outlined on the longitudinal sections, and by multiplying this area by its horizontal width. The tonnage was obtained by multiplying the volume by a density factor of 2.7 per cubic meter. Total tonnage was accumulated for each intersection and a weighted average grade was then calculated. No dilution has been added to the calculations.

To note that the idealized locations of the dike's contacts and of the main or central mineralized zone as placed on transversal sections prior to the last drilling program have not been removed after the program, to show how the first interpretation fits with reality and maybe to prepare an other drilling program.

CONCLUSION

The 1984 diamond drill campaign across the Ludgate Lake gold zone has been rather disappointing. Quantitatively it failed to improve sensibly the former mineral inventory which was increased by only 78 000 short tons to about 800 000 short tons still averaging 0.10 oz Au/t. Qualitatively, rock types, structures, alterations and mineralizations largely associated with the gold zones cannot be practically used as ore markers because too wide, too gradual or too irregular.

None of the southern, central or northern structures carried gold values more than twice when being traversed 5 times by diamond drill holes. The grade was still worse in the two deeper holes. The southern and the northern structures have not been inventoried because of no or few corresponding values on adjacent sections.

The stripping work done immediately north of the Ludgate Lake gold zone confirmed the complexity of the lithology and of the structure of the various phases of the syenitic complex.

RECOMMENDATIONS

Although rock observations and assay results permitted to improve a lot our knowledge on the geology and gold distribution of the Ludgate Lake gold zone, no other work is recommended on the zone itself, at least during the present depressed gold market.

Magloire Berubé

February 22, 1985

Magloire Berube, P. Eng.

REFERENCES

Band, R. B.: Marchaud Option, Summary of 1979-80 Program, inter-office memorandum, April 16, 1980.

Band, R. B.: Petrographic Study, Marchaud Option Samples, inter-office memorandum, May 6, 1980.

Band, R. B.: Exploration Proposal for Garrison Creek Consolidated Properties, inter-office memorandum, April 4, 1979.

Band, R. B.: Report on the 1979 Exploration Program on the Marchaud Property, Michaud Township, February 1980.

Band, R. B.: Wink Vibracorer Overburden Brill Trial, inter-office memorandum, October 23, 1981.

Band, R. B.: Summary report, Garrison Creek Cons. Option 1979-81, March 10, 1982.

Band, R. B.: Mineral Inventory Calculation, Ludgate Lake Zone, Marchaud Option, Michaud Township (letter to W. D. Harrison), Feb. 5, 1980.

Band, R. B.: Status Report, Marchaud Option, Dec. 1980.

Bruce, C. S.: Report on a Magnetometer survey on Four Claims in Michaud Township, Ontario, March 1983.

Berube, Magloire: Evaluation of the Ludgate Lake zone, Garrison Mines' property, Michaud township, Ontario, July, 1984.

Berube, Magloire: Compilation et interpretation structurale des 3 cantons Garrison, Michaud et Guibord, Cochrane District, Ontario, 15 aout 1984.

Carrier, J. Andre: report in preparation

Geola Ltee: Magnetic and gradiometric readings (across the Ludgate Lake dyke), August, 1984.

Lakefield Research Of Canada Ltd: an investigation of the recovery of gold from a Ludgate Lake (Marchaud Option) sample submitted by Falconbridge Nickel Mines Ltd, Sept. 25, 1981.

Lashbrook, R. L.: Report on a V.L.F. Electromagnetic Survey on Four Claims, Michaud Township, Ontario, April 1982.

Lashbrook, R. L.: Report on a V.L.F. Electromagnetic Survey and Magnetometer survey on Four Claims in Michaud Township, Ontario, April 1982.

Muir, J. E.: Falconbridge Metallurgical Laboratories, Petrography and Geochemistry of the Host Rocks at the Marchaud Gold Property, Michaud Township, Ontario(addressed to R. B. Band), June 25, 1980

Muir, J. E.: Mineralogical Examination of two core samples from the Marchaud Property, Michaud Township, Letter to R. B. Band, August 19, 1980.

Phoenix Geophysics Limited: Report on the Induced Polarization and Resistivity Survey on the Marchaud Mines Grid, March 03,1980.

Satterly, J.: Geology of Michaud Township, Fifty-seventh annual report of the Ontario Department of Mines being Vol. LV11, Part 1V, 1948.

Smith, P. A.: Magnetic Inversion-Ludgate Lake Dyke, inter-office memorandum to R. B. Band, April 27, 1982.

Vary, G. A.: Michaud Gold Property-Michaud twp(inter-office memorandum addressed to R. B. Band, on Financial Analysis), March 19, 1980.

CERTIFICATE

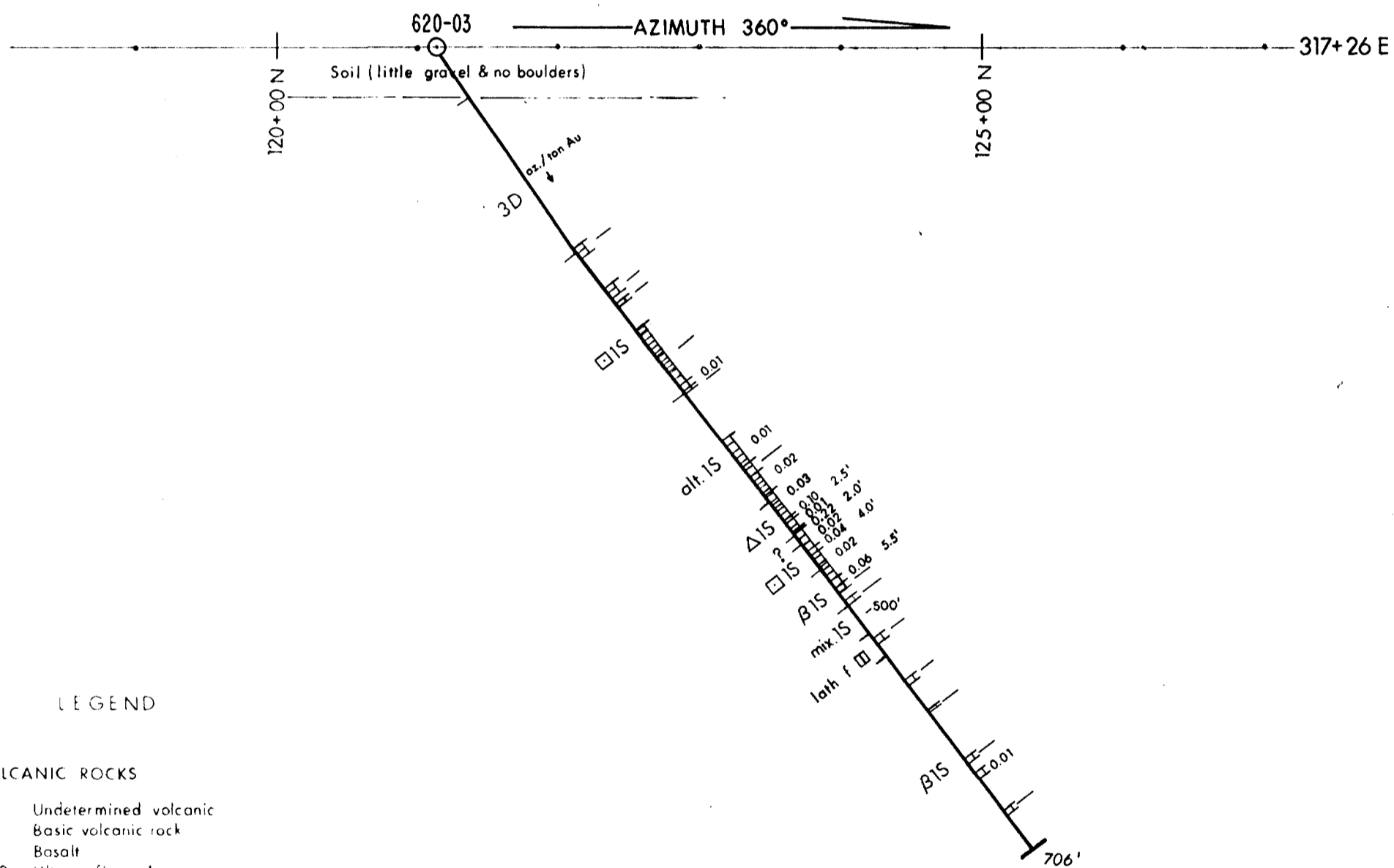
I, the undersigned, Magloire Berube, residing at 1077 Avenue Louis Jobin, Sainte-Foy, Province of Quebec, certify as follow:

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 Michaud township, Ont. nor in any other properties of Falconbridge Ltd.
4. My interpretation and recommendations written in this report dated February 22, 1985 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 properties of Falconbridge Ltd in Michaud township, Ontario.

Magloire Berube

Sainte-Foy, February 22, 1985

Magloire Berube, P. Eng.



LEGEND

VOLCANIC ROCKS

- V Undetermined volcanic
- V5 Basic volcanic rock
- V7 Basalt
- V13 Ultramafic rock

INTRUSIVE ROCKS

- 1S Syenite
- 1X Aplite
- 3D Diabase
- 3G Gabbro

SUFFIX FOR STRUCTURE & TEXTURE

- Porphyry (more than 50% of phenocrysts)
- ▣ Porphyritic (10 to 50% of phenocrysts)
- f Sheared
- △ Breccia

MINERAL SUFFIX

- c Chlorite
- f Feldspar
- qv Quartz vein

LEGEND

VOLCANIC ROCKS

- V Undetermined volcanic
- V5 Basic volcanic rock
- V7 Basalt
- V13 Ultramafic rock

INTRUSIVE ROCKS

- IS Syenite
- IX Aplite
- 3D Diabase
- 3G Gabbro

SUFFIX FOR STRUCTURE & TEXTURE

- ▣ Porphyry (more than 50% of phenocrysts)
- Porphyritic (10 to 50% of phenocrysts)
- ‡ Sheared
- △ Breccia

MINERAL SUFFIX

- c Chlorite
- f Feldspar
- av Quartz vein

COMPOSITION SUFFIX

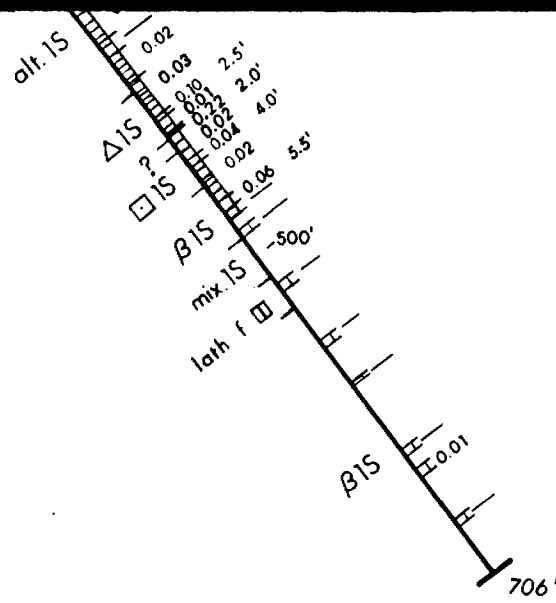
- a Felsic
- β Mafic

ALTERATION SUFFIX

- φ Chloritized
- σ Silicified

ABBREVIATIONS

- alt. altered
- chl. chloritic
- flt. feldted
- mic. microfractured
- mix. mixed
- syen. syenitized
- tra. trachytic
- Incl. Inclusion



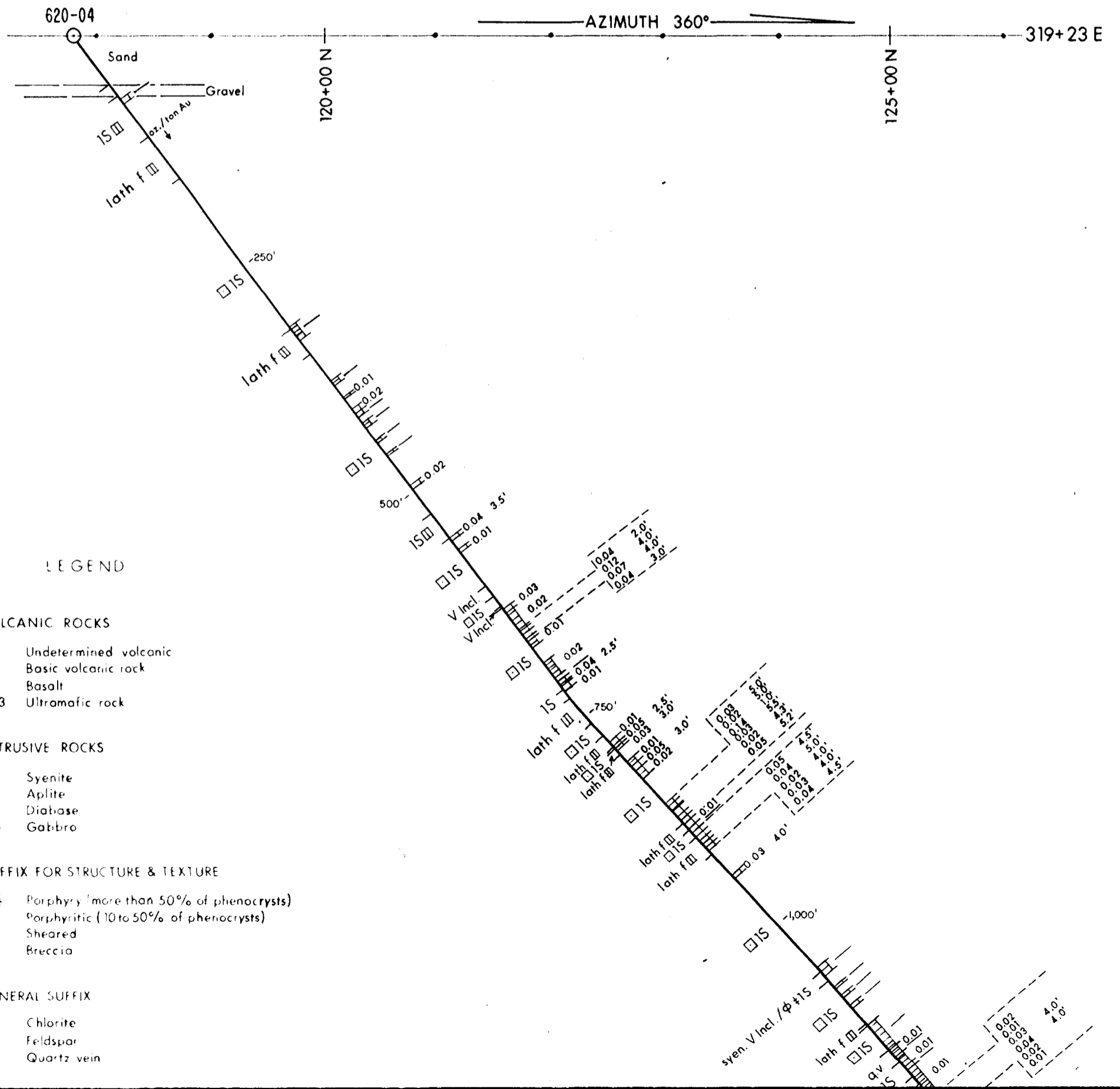
FALCONBRIDGE LTD./LTÉE

PN-620 MICHAUD PROPERTY

VERTICAL SECTION 317+26E

D.D.H. N° 620-03

Township: Canton:	MICHAUD	Claim:	40917	N.T.S. 42A/8,9
Logged by: Journal par:	Magloire Bérubé	date	sept. 1984	Plan N°
Drawn by: Dessiné par:	Géodès	date	feb. 1985	
Revised by: Révisé par:		date		
SCALE / ÉCHELLE	1:1200			
	0 100' 200'			



LEGEND

VOLCANIC ROCKS

- V Undetermined volcanic
- V5 Basic volcanic rock
- V7 Basalt
- V13 Ultramafic rock

INTRUSIVE ROCKS

- IS Syenite
- IX Aplite
- 3D Diabase
- 3G Gabbro

SUFFIX FOR STRUCTURE & TEXTURE

- ☐ Porphyr (more than 50% of phenocrysts)
- Porphyr (10 to 50% of phenocrysts)
- f Sheared
- △ Breccia

MINERAL SUFFIX

- c Chlorite
- f Feldspar
- av Quartz vein

LEGEND

VOLCANIC ROCKS

- V Undetermined volcanic
- V5 Basic volcanic rock
- V7 Basalt
- V13 Ultramafic rock

INTRUSIVE ROCKS

- IS Syenite
- IX Aplite
- 3D Diabase
- 3G Gabbro

SUFFIX FOR STRUCTURE & TEXTURE

- Porphyry (more than 50% of phenocrysts)
- Porphyritic (10 to 50% of phenocrysts)
- † Sheared
- △ Breccia

MINERAL SUFFIX

- c Chlorite
- f Feldspar
- qv Quartz vein

COMPOSITION SUFFIX

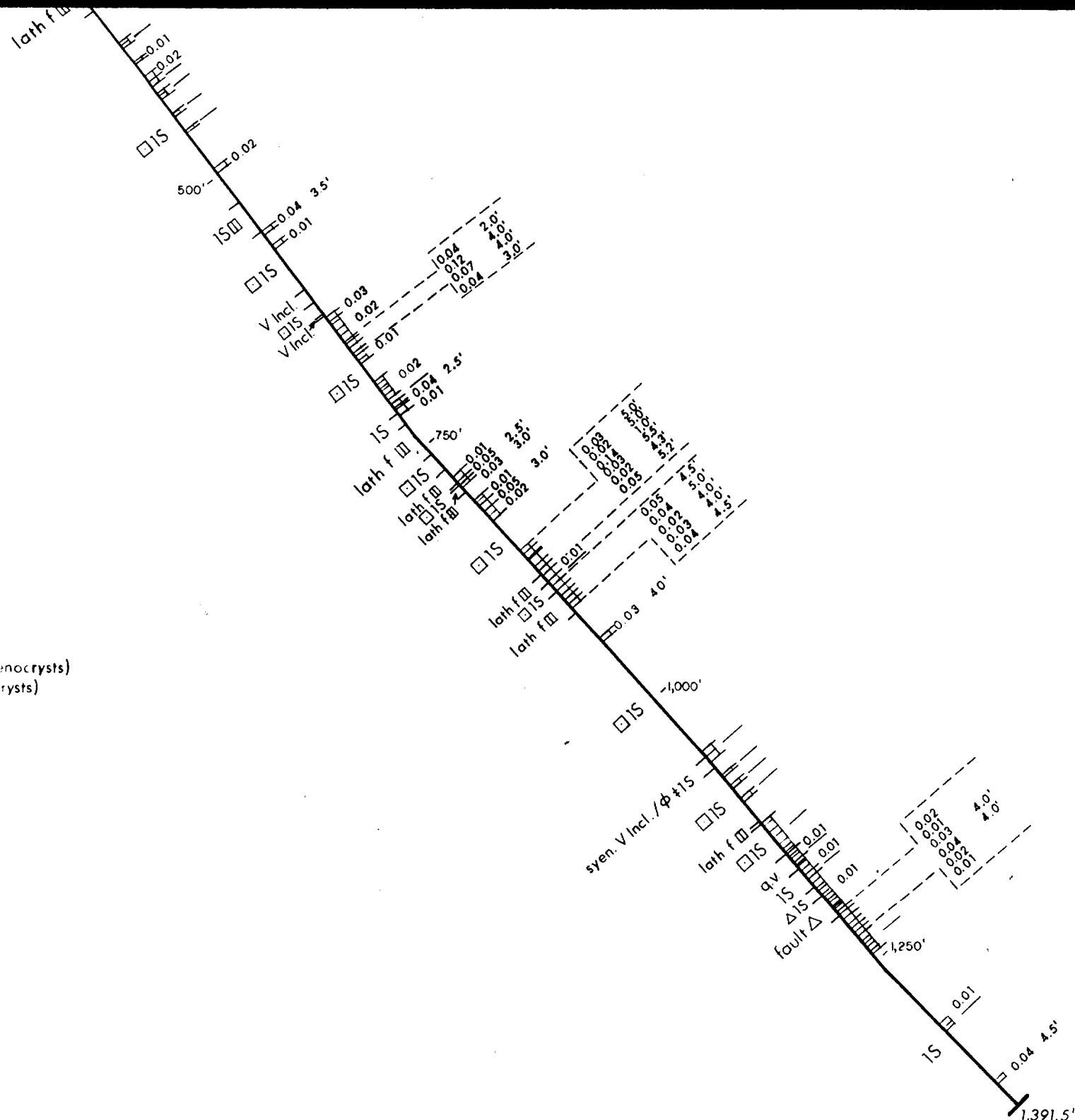
- α Felsic
- β Mafic

ALTERATION SUFFIX

- φ Chloritized
- σ Silicified

ABBREVIATIONS

- alt. altered
- chl. chloritic
- flt. feldric
- mic. microfractured
- mix. mixed
- syen. syenitized
- tra. trachytic
- Incl. Inclusion



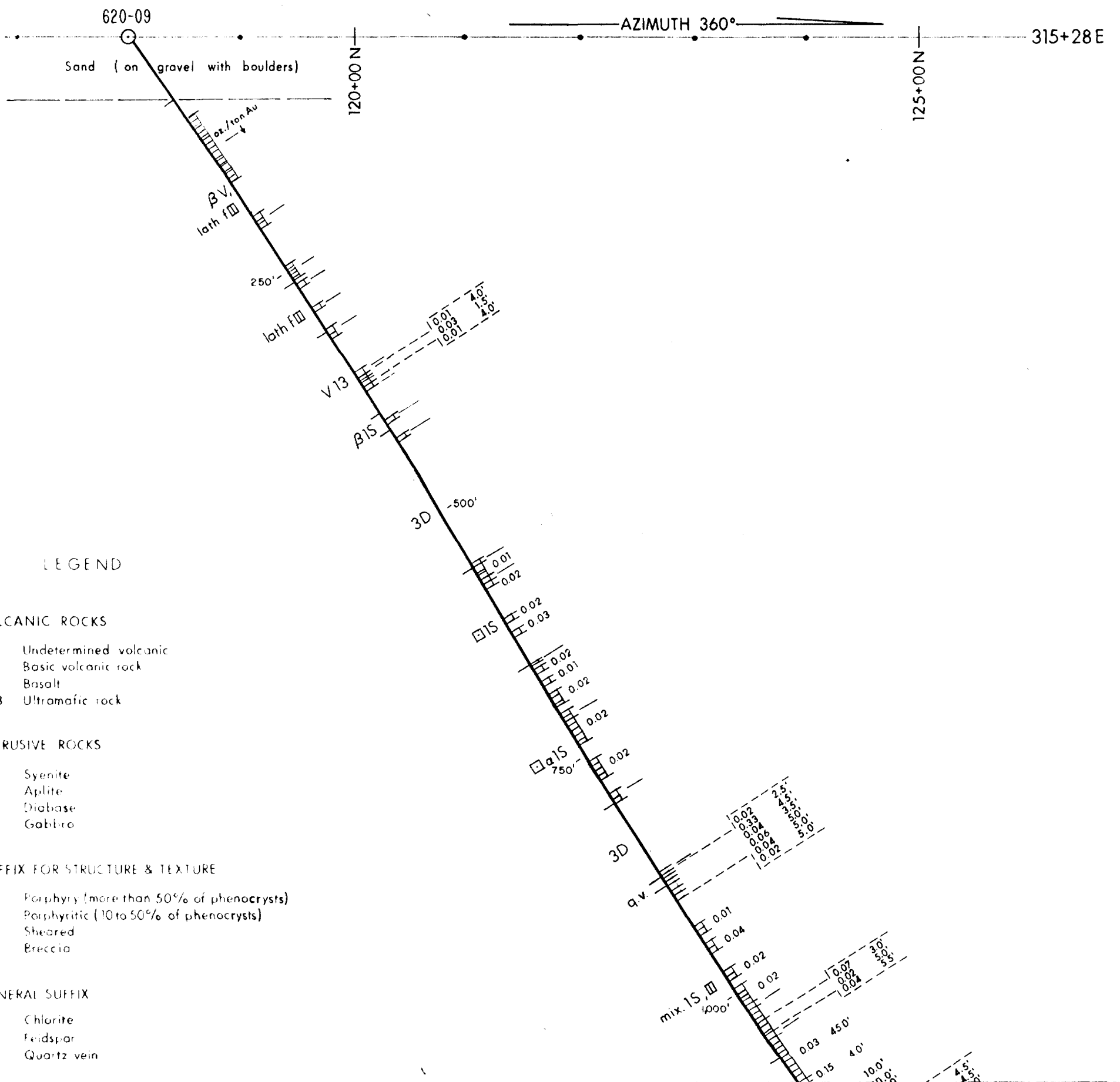
FALCONBRIDGE LTD./LTÉE

PN-620 MICHAUD PROPERTY

VERTICAL SECTION 319+23 E

D.D.H. N° 620-04

Township: Canton:	MICHAUD	Claim:	40918, 40917	NTS	42A/8,9
Logged by: Journal par:	Magloire Bérubé	date	oct. 1984	Plan N°	
Drawn by: Dessiné par:	Géodès	date	feb. 1985		
Revised by: Révisé par:		date			
SCALE / ÉCHELLE	1:1200				
	0 100' 200'				



LEGEND

VOLCANIC ROCKS

- V Undetermined volcanic
- V5 Basic volcanic rock
- V7 Basalt
- V13 Ultramafic rock

INTRUSIVE ROCKS

- 1S Syenite
- 1X Aplite
- 3D Diabase
- 3G Gabbro

SUFFIX FOR STRUCTURE & TEXTURE

- II Porphyry (more than 50% of phenocrysts)
- I Porphyritic (10 to 50% of phenocrysts)
- f Sheared
- △ Breccia

MINERAL SUFFIX

- c Chlorite
- f Feldspar
- av Quartz vein

LEGEND

VOLCANIC ROCKS

- V Undetermined volcanic
- V5 Basic volcanic rock
- V7 Basalt
- V13 Ultramafic rock

INTRUSIVE ROCKS

- IS Syenite
- IX Aplite
- 3D Diabase
- 3G Gabbro

SUFFIX FOR STRUCTURE & TEXTURE

- ▨ Porphyry (more than 50% of phenocrysts)
- Porphyritic (10 to 50% of phenocrysts)
- † Sheared
- △ Breccia

MINERAL SUFFIX

- c Chlorite
- f Feldspar
- qv Quartz vein

COMPOSITION SUFFIX

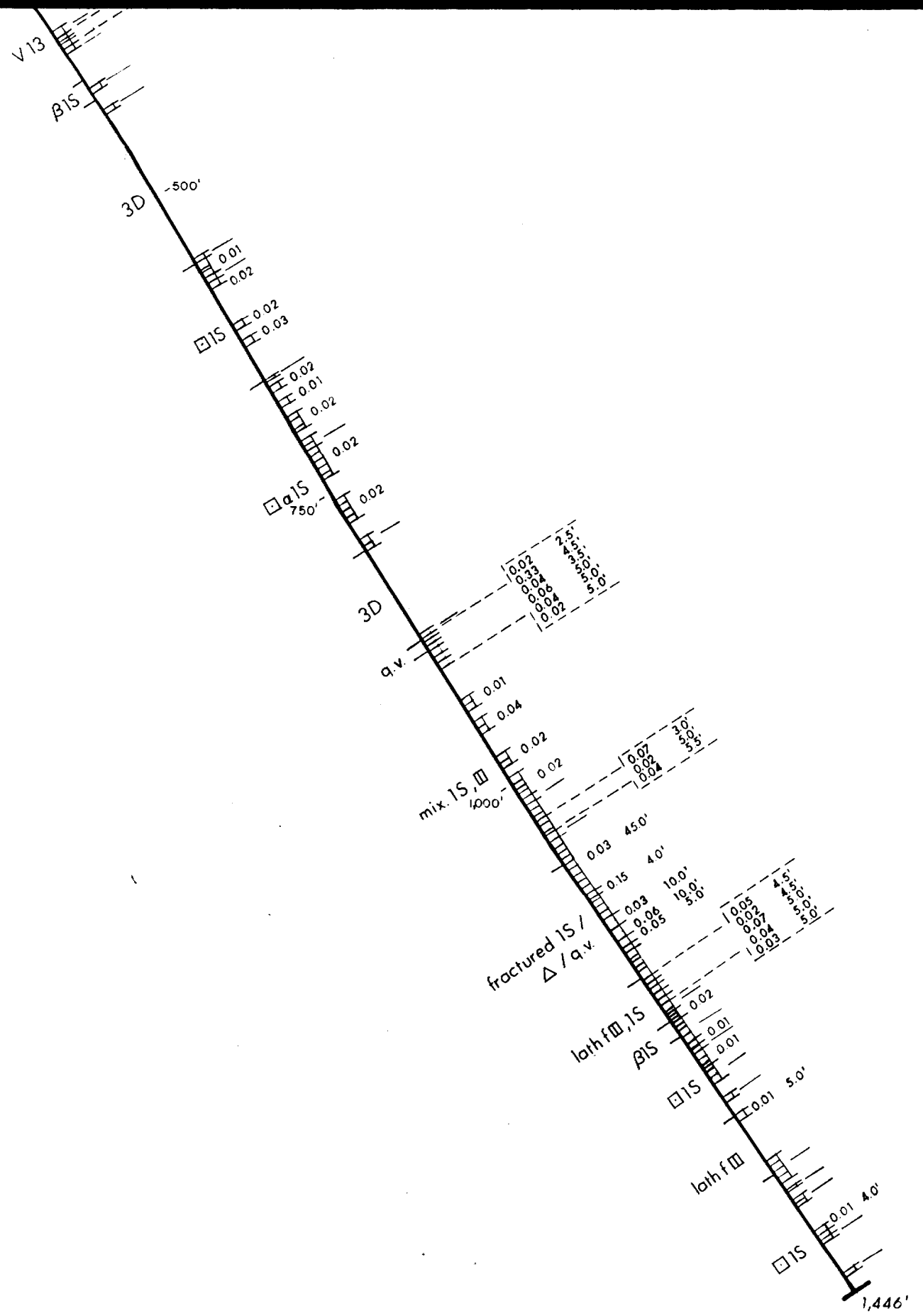
- a Felsic
- B Mafic

ALTERATION SUFFIX

- φ Chloritized
- o Silicified

ABBREVIATIONS

- alt. altered
- chl. chloritic
- flt. faulted
- mic. microfractured
- mix. mixed
- syen. syenitized
- tra. trachytic
- Incl. Inclusion



FALCONBRIDGE LTD./LTÉE			
PN-620		MICHAUD PROPERTY	
VERTICAL SECTION 315+28E			
D.D.H. N° 620-09			
Township Canton:	MICHAUD	Claim	40917, 40918
NTS	42A/8,9		
Logged by:	J. André Carrier	date	oct 1984
Journal par:	Géodès	date	feb. 1985
Drawn by:	Géodès	date	feb. 1985
Dessiné par:		date	
Revised by:		date	
Revisé par:		date	
SCALE / ÉCHELLE	1:1200		
0	100'	200'	

620-13

Sand (on 2' of gravel with boulders)

AZIMUTH 360°

313+97E

120+00 N

125+00 N

f III 0.02
lath f III 0.01
BIS, III 0.01
0.04
0.02

lath f III

IS 0.07 5.0'
-250'

tra. BIS 0.02 15'
0.04 8.0'
0.04

mix lath f III, IS 0.04 ?
0.03

IS

tra. BIS 0.02
alt. Δ (IS, V) 0.04 ?
-500'

V 13

red III 0.02
0.02
0.01
0.01

alt. BIS 0.01 5.0'

750' alt. lath f III 0.04 8.0'
0.08 0.04

chl. † Δ 0.07 5.0'

mic. σ IS 0.04
chl. Δ alt. IS BIS 0.01 5.5'
0.04 0.03

IS 0.03 8.0'
0.05 5.0'
0.04 10.0'

chl. Δ 400' 0.03 8.0'
0.05 5.0'

alt. IS 0.03 8.0'
0.05 4.0'
0.07 2.5'

LEGEND

VOLCANIC ROCKS

- V Undetermined volcanic
- V5 Basic volcanic rock
- V7 Basalt
- V13 Ultramafic rock

INTRUSIVE ROCKS

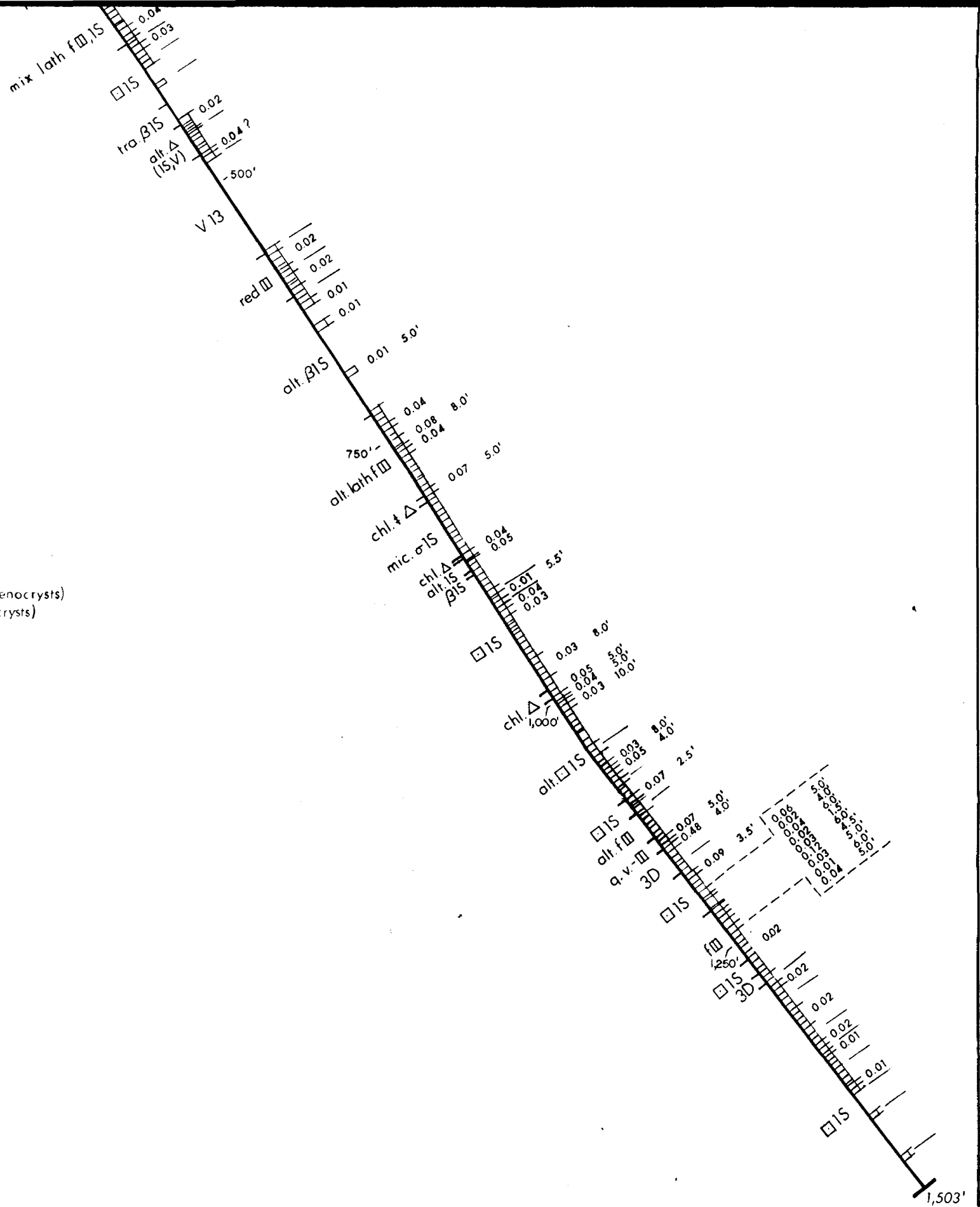
- IS Syenite
- IX Aplite
- 3D Diabase
- 3G Gabbro

SUFFIX FOR STRUCTURE & TEXTURE

- III Porphyry (more than 50% of phenocrysts)
- II Porphyritic (10 to 50% of phenocrysts)
- † Sheared
- Δ Breccia

MINERAL SUFFIX

- c Chlorite
- f Feldspar
- av Quartz vein



LEGEND

VOLCANIC ROCKS

- V Undetermined volcanic
- V5 Basic volcanic rock
- V7 Basalt
- V13 Ultramafic rock

INTRUSIVE ROCKS

- IS Syenite
- IX Aplite
- 3D Diabase
- 3G Gabbro

SUFFIX FOR STRUCTURE & TEXTURE

- III Porphyry (more than 50% of phenocrysts)
- I Porphyritic (10 to 50% of phenocrysts)
- † Sheared
- Δ Breccia

MINERAL SUFFIX

- c Chlorite
- f Feldspar
- qv Quartz vein

COMPOSITION SUFFIX

- a felsic
- β mafic

ALTERATION SUFFIX

- φ Chloritized
- σ Silicified

ABBREVIATIONS

- alt. altered
- chl. chloritic
- flt. feldted
- mic. microfractured
- mix. mixed
- syen. syenitized
- tra. trachytic
- Incl. Inclusion

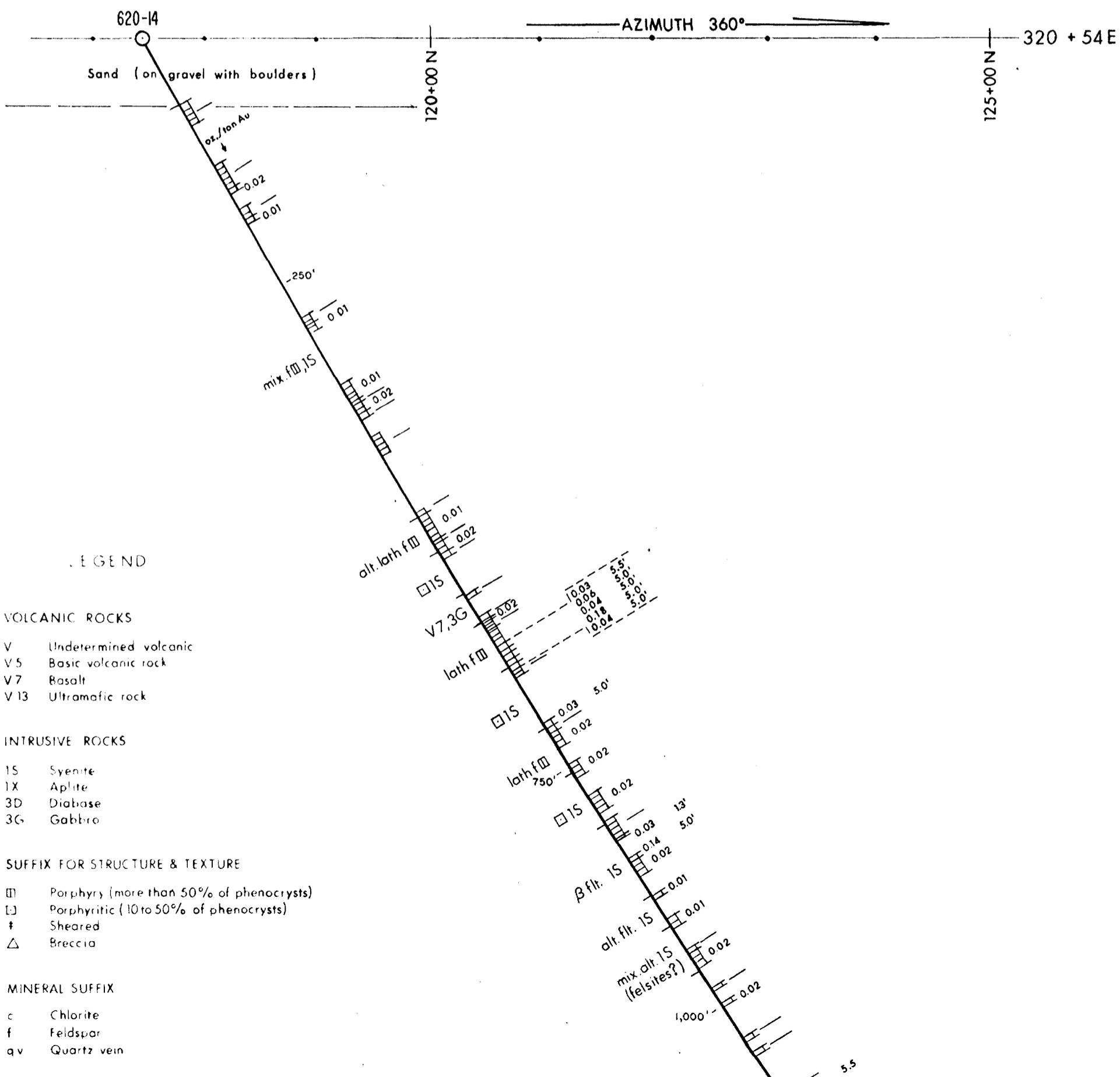
FALCONBRIDGE LTD./LTÉE

PN-620 MICHAUD PROPERTY

VERTICAL SECTION 313+97E

D.D.H. N° 620-13

Township: MICHAUD	Claim: 40917, 40918	NTS: 42A/8,9
Logged by: J. André Carrier	date: nov. 1984	Plan N°
Drawn by: Géodès	date: feb. 1985	
Revised by:	date:	
Revisé par:	date:	
SCALE / ÉCHELLE 1:1200		



LEGEND

VOLCANIC ROCKS

- V Undetermined volcanic
- V5 Basic volcanic rock
- V7 Basalt
- V13 Ultramafic rock

INTRUSIVE ROCKS

- 1S Syenite
- 1X Aplite
- 3D Diabase
- 3G Gabbro

SUFFIX FOR STRUCTURE & TEXTURE

- Porphyry (more than 50% of phenocrysts)
- ◻ Porphyritic (10 to 50% of phenocrysts)
- # Sheared
- △ Breccia

MINERAL SUFFIX

- c Chlorite
- f Feldspar
- qv Quartz vein

LEGEND

VOLCANIC ROCKS

- V Undetermined volcanic
- V5 Basic volcanic rock
- V7 Basalt
- V13 Ultramafic rock

INTRUSIVE ROCKS

- 1S Syenite
- 1X Aplite
- 3D Diabase
- 3G Gabbro

SUFFIX FOR STRUCTURE & TEXTURE

- ☐ Porphyry (more than 50% of phenocrysts)
- ◻ Porphyritic (10 to 50% of phenocrysts)
- ‡ Sheared
- △ Breccia

MINERAL SUFFIX

- c Chlorite
- f Feldspar
- qv Quartz vein

COMPOSITION SUFFIX

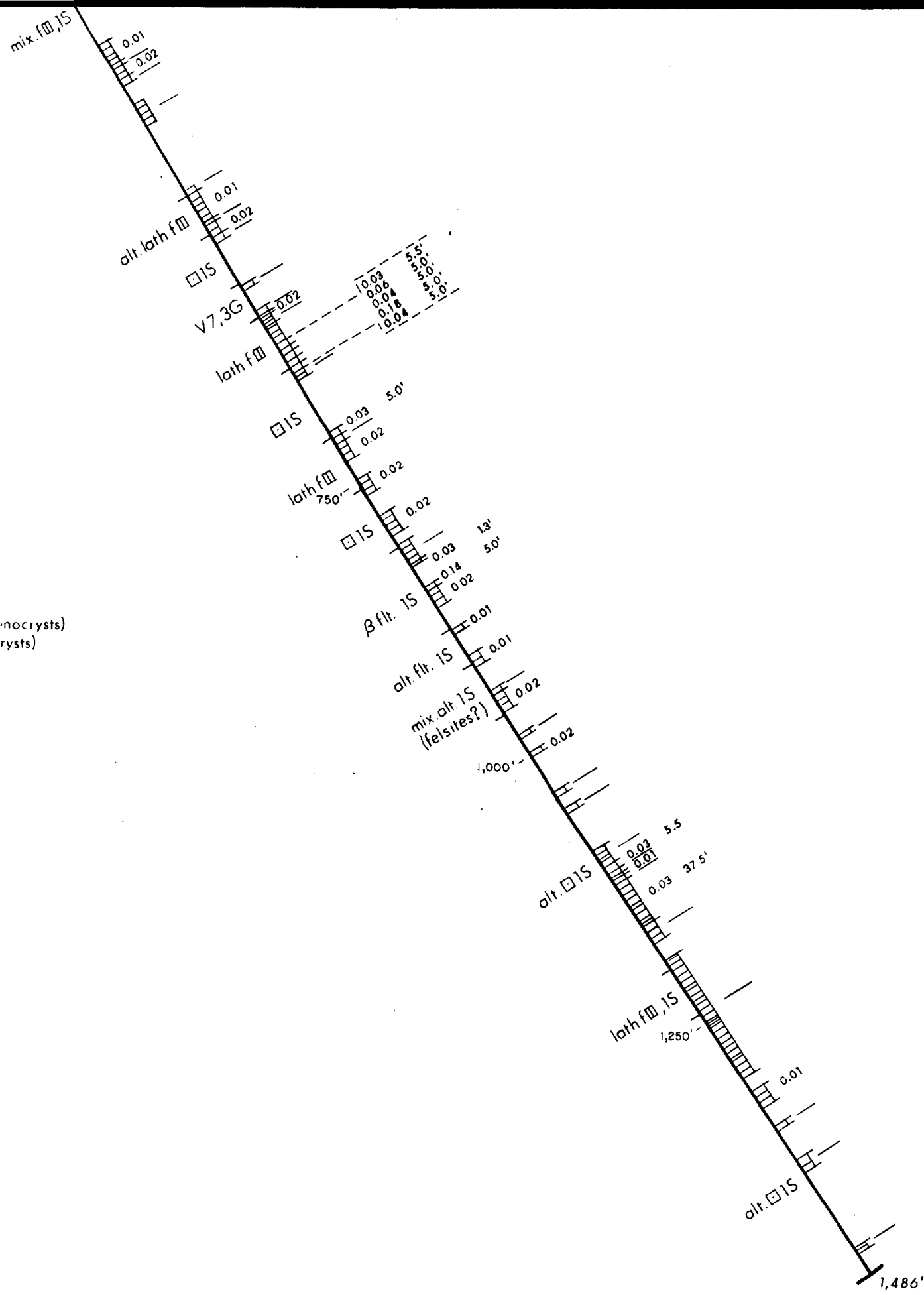
- α Felsic
- β Mafic

ALTERATION SUFFIX

- φ Chloritized
- σ Silicified

ABBREVIATIONS

- alt. altered
- chl. chloritic
- flt. feldred
- mic. microfractured
- mix. mixed
- syen. syenitized
- tra. trachytic
- Incl. Inclusion



FALCONBRIDGE LTD./LTÉE

PN-620 MICHAUD PROPERTY

VERTICAL SECTION 320+54E

D.D.H. N° 620-14

Township: MICHAUD	Claim: 40917, 40918	NTS: 42A/8,9
Logged by: J. André Carrier	date: nov. 1984	Plan N°
Drawn by: Géodès	date: feb. 1985	
Revised by:	date:	
Revisé par:	date:	
SCALE / ÉCHELLE 1:1200		

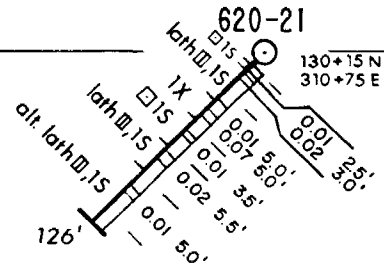
MAG.

58800 γ
58600 γ
58400 γ
58200 γ
58000 γ

TOTAL MAGNETIC FIELD
(from contours)

AZIMUTH 315°

129+00N



310+00E

309+00E

133+00N

FALCONBRIDGE LTD/LTÉE

PN-620 MICHAUD PROPERTY

VERTICAL SECTION 310+75 E

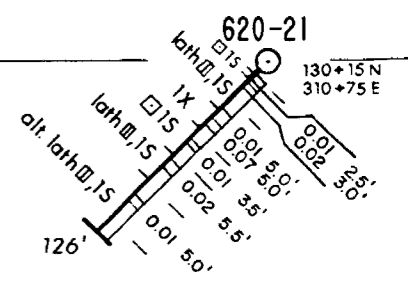
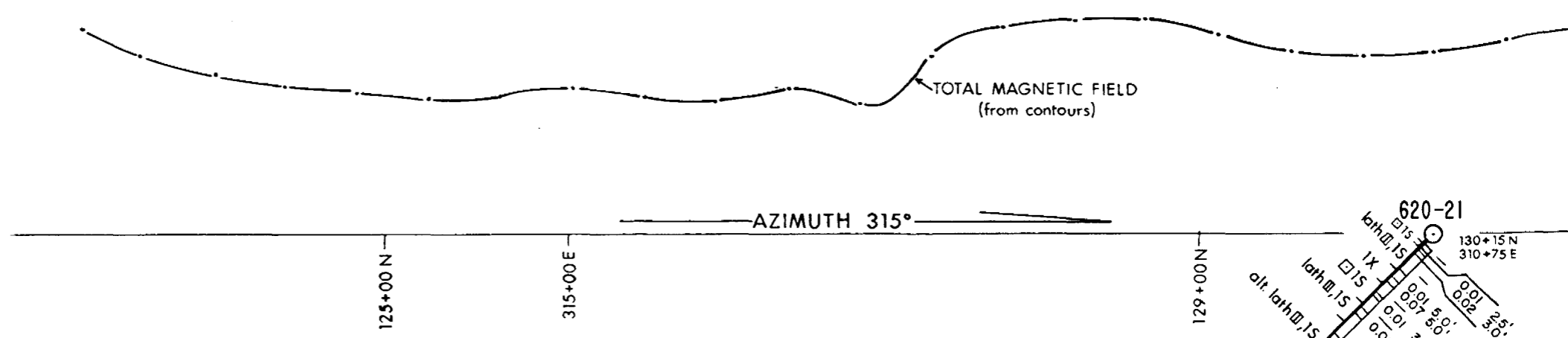
DDH. N° 620-21

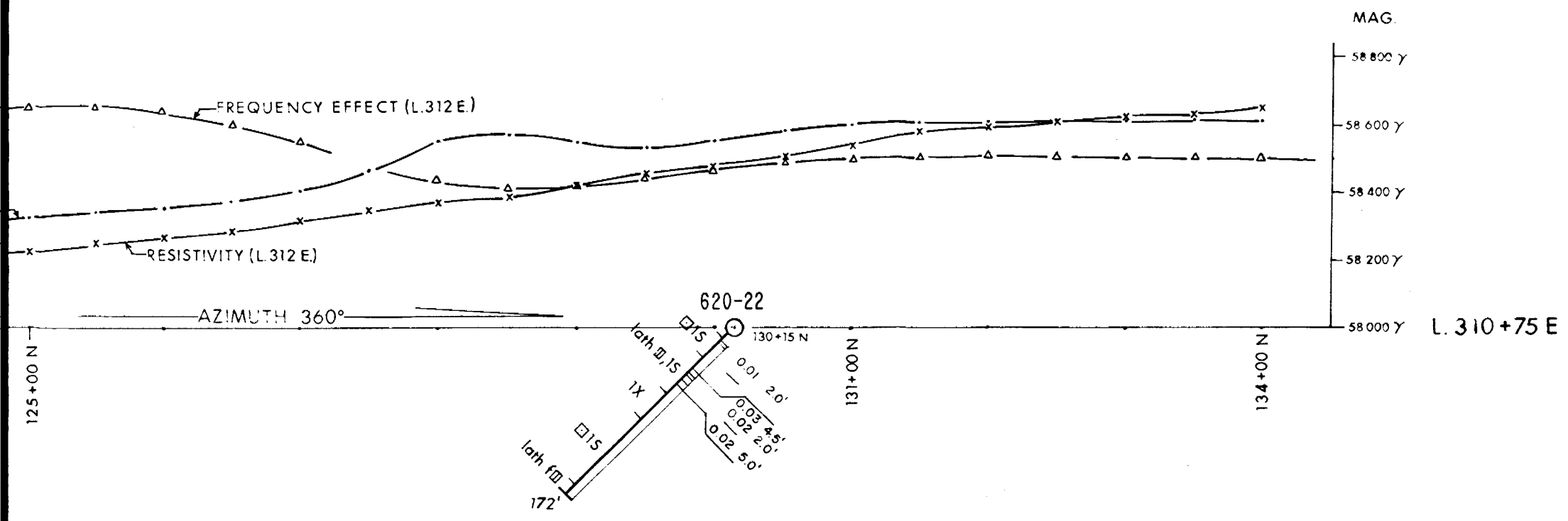
Township Canton	MICHAUD	Claim	40915	NTS
Logged by Journal par	J. André Carrier	Date	Nov. 1984	42A/8
Drawn by Dessiné par	Geodes	Date	feb. 1985	Plan N°

Revised by
Revisé par

SCALE / ÉCHELLE 1:1200

0 100' 200'





FALCONBRIDGE LTD/LTÉE

PN-620 MICHAUD PROPERTY

VERTICAL SECTION 310+75 E

DDH. N° 620-22

Township
Canton MICHAUD 40915

N.T.S.
42A/8

Logged by
Journal par J. André Carrier Nov. 1984

Plan N°

Drawn by
Dessiné par Geodes feb. 1985

Revised by
Révisé par

SCALE / ÉCHELLE 1:1200
0 100' 200'

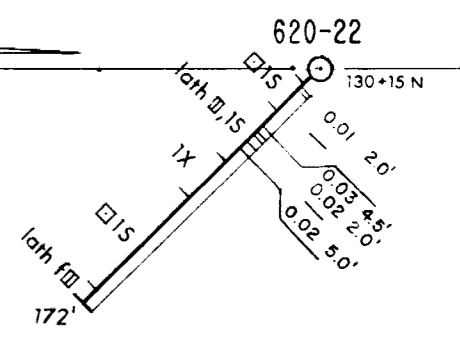
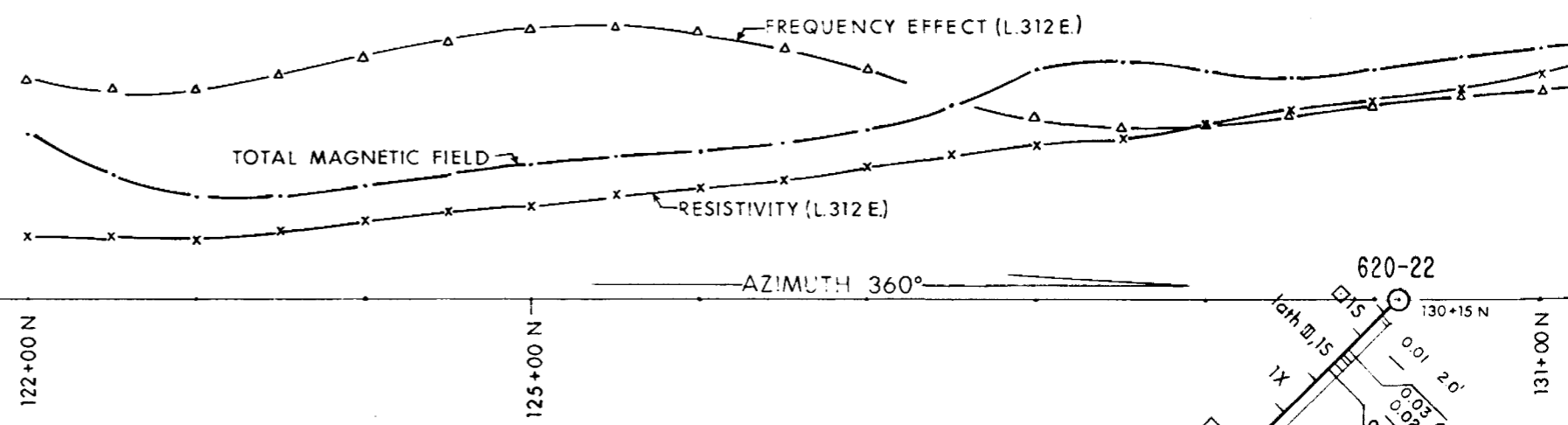


RESIST.

FREQ. EFF.

3000 Ω
2000 Ω
1000 Ω
0

1,5%
1,0%
0,5%
0



EVALUATION OF THE LUDGATE GOLD ZONE
GARRISON MINES' PROPERTY
MICHAUD TOWNSHIP, ONTARIO

The Ludgate gold zone has been evaluated in 4 steps, each of which being briefly summarized below:

Data Compilation

The new compilation comprises one composite plan, one longitudinal section and 26 transversal sections, all at the 400 scale. 29 complete holes drilled during 1946-1947 and 1980-1981 have been traced on these maps. The main data reported along the trace of each hole are the gold assays, rock types, alteration and some structures.

Data interpretation

During this step, the most relevant data have been connected from one hole to the other, from one section to the other and/or from sections to plans.

Only the gold intersections belonging to the main or central zone have been connected yet, the ones belonging to the southern or northern zones being well below ore grade.

Contacts between syenitic facies (syenite, syenite porphyry, grey porphyry, pegmatitic syenite, lamprophyre) have not been related, having doubtful or no relation with mineralization. However, the intrusive contacts of the younger diabase dyke cross-cutting the mineralized zone in the syenite have been placed on all maps. The north-south contact between the syenite and the basalt at the eastern end of the ore zone seems irregular. Many core sections described as talcose andesite are more likely sheared and chloritized syenite.

Except for the main fault longing the central zone, most faults will be plotted only after the next diamond drilling program. The alteration halo in/and around each zone has also been omitted on base maps for the time being, for simplicity of presentation or for lack of time. There is a very closed genetic and spatial association between mineralization, structure and alteration.

Mineral inventory calculations

Mineral inventory, as calculated on an annexed sheet, amount to 659,000 metric tons grading 3.5 grams per ton, before dilution. They are all contained in the central zone, along the main fractured zone, within 150 metres of the diabase contacts. The average width of the mineralized zone is 7.5 metres.

Diamond drill recommendation

Seven recommended holes are placed on all maps and listed on annexe II. They totalize 2210 metres of drilling. This program could easily double the tonnage, hopefully increase the grade and improve the northern and southern zones.

Magloire Bérubé, ing.

Magloire Bérubé, ing.

July, 1984

LUDGATE ZONE, GARRISON OPTION
MINERAL INVENTORY

(see longitudinal section)

<u>SECTIONS</u>	<u>HOLE #</u>	<u>SURFACE m²</u>	<u>THICK m</u>	<u>TONNAGE 2.7t/m³</u>	<u>GRADE g/t</u>
9570-9590E	14-46	2000	4.0	21 600	7.0
	20A-46	2050	6.0	33 210	3.6
	12-81	2075	7.9	44 258	2.2
	14-81	2500	15.0	101 250	2.6
				200 318	3.2
9610-9630E	10-46	1625	3.5	15 355	3.9
	28-46	1975	6.2	33 061	3.8
	19-46	600	11.0	17 820	1.8
	8-80	1075	6.0	17 415	3.1
	9-80	2500	2.5	16 875	3.3
			100 526	3.3	
9670E	13-46	2500	9.0	60 750	3.0
				60 750	3.0
9730-9750E	1-80	1500	13.5	54 675	4.8
	13-81	2025	2.2	12 029	10.4
				66 704	5.8
9790E	24-46	2500	2.3	15 525	3.8
	10-80	2625	16.0	113 400	3.0
	5-80	2500	5.5	37 125	3.0
			166 050	3.1	
9850E	22-46	2500	9.5	64 125	3.6
				64 125	3.6
TOTAL	16	32550	7.5	658 743	3.5

LUDGATE ZONE, GARRISON OPTION
DIAMOND DRILLING RECOMMENDATIONS

<u>D.D.H.</u> (proposed)	<u>COORDINATES</u> EAST NORTH	<u>DIRECTION</u> (AZIMUTH)	<u>DIP</u>	<u>LENGTH</u> (m)
P-1	9670E 3692N	360°	-55°	160
2	9630E 3596N	360°	-55°	300
3	9530E 3604N	360°	-55°	300
4	9590E 3582N	360°	-60°	350
5	9730E 3590N	360°	-55°	375
6	9810E 3920N	180°	-50°	350
7	9770E 3580N	360°	-60°	<u>375</u>

TOTAL 2210 metres
7250 feet

at \$22./ft= \$160,000.

- 1 VOLCANICS (andesite)
- 2 SYENITE (Pg=pegmatite)
- 3 PORPHYRY
- 4 DIABASE
- 5 LAMPROPHYRE
- 6 KIMBERLITE
- 7 QUARTZ (replacement)
- 8 SCHISTE
- SSS MAJOR FAULT ZONE
- α FELSIC
- β MAFIC (basic)
- γ ULTRAMAFIC
- ϕ CHLORITIZED
- λ SERICITIZED
- σ SILICIFIED
- π PYRITIZED
- ρ RED ALTERATION
- j CARBONATE
- 9 QUARTZ
- C CHLORITE
- V.G. VISIBLE GOLD
- \square PORPHYRIC
- Δ BRECCIA
- ++ BANDED
- \ddagger SHEARED

J. André Carrier, ing., M.Sc.(Applied)

1035 FOURNIER, SAINTE-FOY, QUÉBEC, CANADA G1V 3L5

TÉL.: (418) 651-8006



32D12SW0152 63.4487 GARRISON

030

FALCONBRIDGE LIMITED &
GARRISON CREEK C.M. LTD.

GARRISON CREEK OPTION
(PN-604, 605, 620, 693 & al.)

EXPLORATION PERFORMED IN 1984

VOLUME I (of 3)

March 1985

SUMMARY

Pursuing a joint venture initiated by the 1979 agreement, Falconbridge Limited and Garrison Creek Consolidated Mines Limited launched an extensive exploration campaign for gold, during most of 1984, on virtually all the latter company properties held in Guibord, Michaud and Garrison townships of Ontario.

Falconbridge Limited assumed the management of the program, the costs were shared by Falconbridge Limited and Garrison Creek C.M. Ltd., and most works were carried out by various contractors.

31,461 feet were drilled in 33 holes, 15,000 square feet were stripped in one trench, and over 3,000 rock samples were sent to laboratories. Close to 1,000 magnetometric and over 4,000 induced polarization stations were surveyed geophysically.

The mineralized zone of the Garrison township property and the Ludgate Lake Gold Zone were tested by additional drilling but the results failed to improve these targets significantly. Two good grade intersections, 200 feet apart, were discovered in the eastern part of the Michaud township main property; delineation drilling proved them to be of no economic extent. In Michaud township, uneconomic enrichments in gold were found close to half a mile west and close to half a mile south of the Ludgate Zone; follow-up diamond drilling is recommended in the latter case (near the main property south boundary).

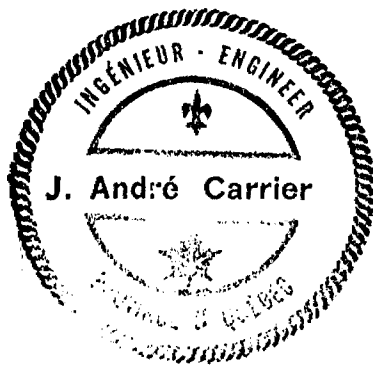
The present report, covering the 1984 exploration campaign, consists of 3 volumes accompanied by 3 books of I.P. pseudo-sections (one for each project PN-605, 620 & 693).

- Volume 1, holds the text of the report & appendix
- Volume 2, the legend & maps and
- Volume 3, the diamond drill logs & analyses

AUTHOR'S CERTIFICATE

I, the undersigned, J. André Carrier, residing at 1035 Fournier, Sainte-Foy, Québec, Canada, certify that:

- 1- I studied Geological Engineering at Laval University where I obtained the degree of Bachelor of Applied Sciences in 1965; and that I studied Mineral Exploration at McGill University, under the "Faculty of Graduate Studies and Research", where I graduated in 1967 with the title of Master of Science (Applied).
- 2- I am a member in good standing of the Order of Engineers of the Province of Quebec, registered under number 16903; and that I am practising my profession since graduation.
- 3- I do not hold, nor expect to receive, any interest whatsoever, directly or indirectly, in the mining properties held by Falconbridge Limited or Garrison Creek Consolidated Mines Limited.
- 4- I did personally visit the properties, supervised the 1984 diamond drilling campaign, logged most of the core, and selected samples to be assayed.
- 5- Part of the information contained in this report is derived from discussions with Falconbridge Limited technical staff and with Magloire Bérubé, Eng., from geophysical contractors reports and from several public and internal documents (cited in references).



J. André Carrier, Eng.

J. André Carrier, Eng., M. Sc. (Applied)

Sainte-Foy, February 28th, 1985



32D12SW0152 63.4487 GARRISON

030C

TABLE OF CONTENTS

<u>VOLUME 1</u>	Pages
1. PROPERTY, LOCATION & ACCESS	2
(Table 1 - Mining Properties...)	3
2. GENERAL GEOLOGY	4
(Project Location Map)	6
(Regional Geology Map)	7
3. WORK CARRIED OUT	8
3.a) Former Works	8
3.b) Works Carried Out in 1984	9
4. 1984 GEOPHYSICAL SURVEYS	10
4.a) Magnetometric Surveys	10
4.b) Induced Polarization Surveys	10
(Property Map)	
(I.P. & D.D.H. Location)	
(Colored MAG Survey)	
} 3 maps for	
} each of	12
} PN-605,620&693 }	
5. DIAMOND DRILLING, SUMMARY LOGS & FINDINGS	21
5.a) ..."Garrison Twp." PN-605	22
5.b) ..."Michaud Twp." PN-620	26
5.c) ..."Guibord Twp." PN-693	37
6. PROPERTY GEOLOGY	39
6.a) Geological Compilation of the 3 townships	
(PN-604)	39
6.b) "Garrison Twp." (PN-605) Geology	39
6.c) "Michaud Twp." (PN-620) Geology	41
6.d) "Guibord Twp." (PN-693) Geology	43
6.e) DUNMAR Property Geology	44

7. CONCLUSION & RECOMMENDATIONS

APPENDIX

- List of Selected References
- List of Mining Claims
- List of Works Performed in 1984
- List of Holes Drilled in 1984
- D.D.H. Vertical Sections (with geochemical gold profiles)
at 1:1,200 or 1:2,400

VOLUME 2

LEGEND & MAPS

- Volume 2 contents
- GEOSCIENTIFIC LEGEND (10 sheets)
- GENERAL COMPILATION (PN-604) at 1:20,000
 - a) Geological Data Interpretation, Garrison...
 - b) Geological Data Interpretation, Michaud...
 - c) Geological Data Interpretation, Guibord...
- "GARRISON TWP." (PN-605) Maps at 1:4,800
 - a) Property Map
 - b) 5th Separation Contours (Resistivity)
 - c) Geology & Compilation
- "MICHAUD TWP." (PN-620) Maps at 1:4,800 (& other scales)
 - a) Property Map
 - b) Magnetic & Gradiometric Readings (at 1:2,400)
 - c) Magnetic & Gradiometric Profiles (at 1:2,400)
 - d) I.P. 5th Separation Resistivity Contour
 - e) Geology & Compilation
 - f) East Zone D.D.H. (Plan & Long. Section at 1:1,200)
 - g) N.W. Ludgate Trench (Geology & Assays at 1:400)

- "GUIBORD TWP." (PN-693) Maps at 1:4,800 (& 1:2,400)
 - a) Property Map
 - b) Magnetic & Gradiometric Readings (1:2,400)
 - c) Magnetic & Gradiometric Profiles (1:2,400)
 - d) Resistivity Contours 5th Separation
 - e) Geology & Compilation

- DUNMAR PROPERTY Maps at 1:4,800
 - a) Property Map
 - b) Magnetic Contours

VOLUME 3

1984 DIAMOND DRILL LOGS, ASSAYS AND GEOCHEMICAL GOLD

- List of Holes Drilled in 1984

- "Garrison Twp." Holes # 605-01 to 605-06

- "Michaud Twp." Holes # 620-01 to 620-22

- "Guibord Twp." Holes # 693-01 to 693-05

FALCONBRIDGE LIMITED &
GARRISON CREEK C.M. LTD.

GARRISON CREEK OPTION
(PN-604, 605, 620, 693 & al.)

EXPLORATION PERFORMED IN 1984

1. PROPERTY, LOCATION & ACCESS

The Garrison Creek Option mining properties are located in Guibord, Michaud and Garrison Townships, some 50 to 65 miles east of Timmins, Ontario (see project location map, page 6); they are part of the Larder Lake Mining Division.

They consisted originally of 90 patented claims, to which 16 claims, were added. All the 106 claims were incorporated in the Falconbridge Limited-Garrison Creek C.M.L. agreement.

The corresponding properties have their outlines shown on the Regional Geology map, page 7; they have their present and former names spelled out in table 1, page 3. Moreover, project number PN-604 has been used to classify works of general interest performed within the three townships.

All the claim licences are listed in Appendix. In addition, individual overlays (at 1:15,840 scale), on pages 12, 15 & 18, as well as individual Property Maps (at 1:4,800 scale) in Volume 2, show the claims boundaries of the three main properties.

The access to the area is very easy through Highway 101 which straddles each one of the three townships in an east-west direction. From there on, a very good gravel road crosses PN-605, a good winding sandy road deserves PN-620 and reaches to DUNMAR vicinity, and a rough bulldozed trail gets to PN-693 (from Pike River bridge on the Hislop-Guibord road), weather permitting.

The area suffers from extensive glacial sand cover and swamps, but, for the present report properties, supply water exists usually within two miles of any eventual drill hole location.

Basic supplies can be obtained from Matheson, a small town located some 10 to 25 miles away.

<u>Properties 1984 Identification</u>	<u>Remarks</u>
PN-605 Garrison Option "Garrison Twp."	26 patented claims (former Garrison Creek Block); in Garrison Township.
PN-620 Garrison Option "Michaud Twp."	34 patented claims (former Marchaud Block) & 16 recorded claims; in Michaud township.
PN-693 Garrison Option "Guibord Twp."	23 patented claims (former Caman Block); in Guibord township.
DUNMAR (Part of PN-622: Garrison Option "FL Michaud Twp. Claims")	5 patented claims (former Dunmar Block); 3 in Michaud & 2 in Guibord townships.
MORGAN (left inactive)	2 patented claims (former Morgan Creek Block); in Guibord township.
GARRISON CREEK OPTION	TOTAL: 106 mining claims

Table 1 - Mining Properties of the Garrison Creek Option

2. GENERAL GEOLOGY

In the western part of the Abitibi "greenstone" belt of the Canadian Shield lie the Timmins-Porcupine and the Kirkland Lake gold-producing districts of Ontario.

The property, object of this report, is located within the Guibord-Michaud-Garrison townships area, which can itself be considered an eastern extension (some 50 miles to the east) of the famous Timmins-Porcupine Mining Area (see project location map, page 6).

The bedrock of the three townships area is all of precambrian age and consists of older volcanic rocks holding the eastern ends of two belts (an east-trending one of older sedimentary rocks, and an east-southeast-trending one of ultramafic rocks lying to the north of the first belt). The volcanic and sedimentary rock units are cut by numerous stocks and dykes forming the roughly east-trending Michaud Intrusive Belt (granites and quartz-free felsic rocks). That general geology is shown on a map at 1:253,440 scale on page 7.

The tectonic history of the area, both faulting and folding, is complex. The Destor-Porcupine Break, a generally east-striking, some 200-mile long fault zone, is the most prominent structural feature affecting the three townships area. The zone is made of several systems of shear planes with frequent branching-off ("horsetails").

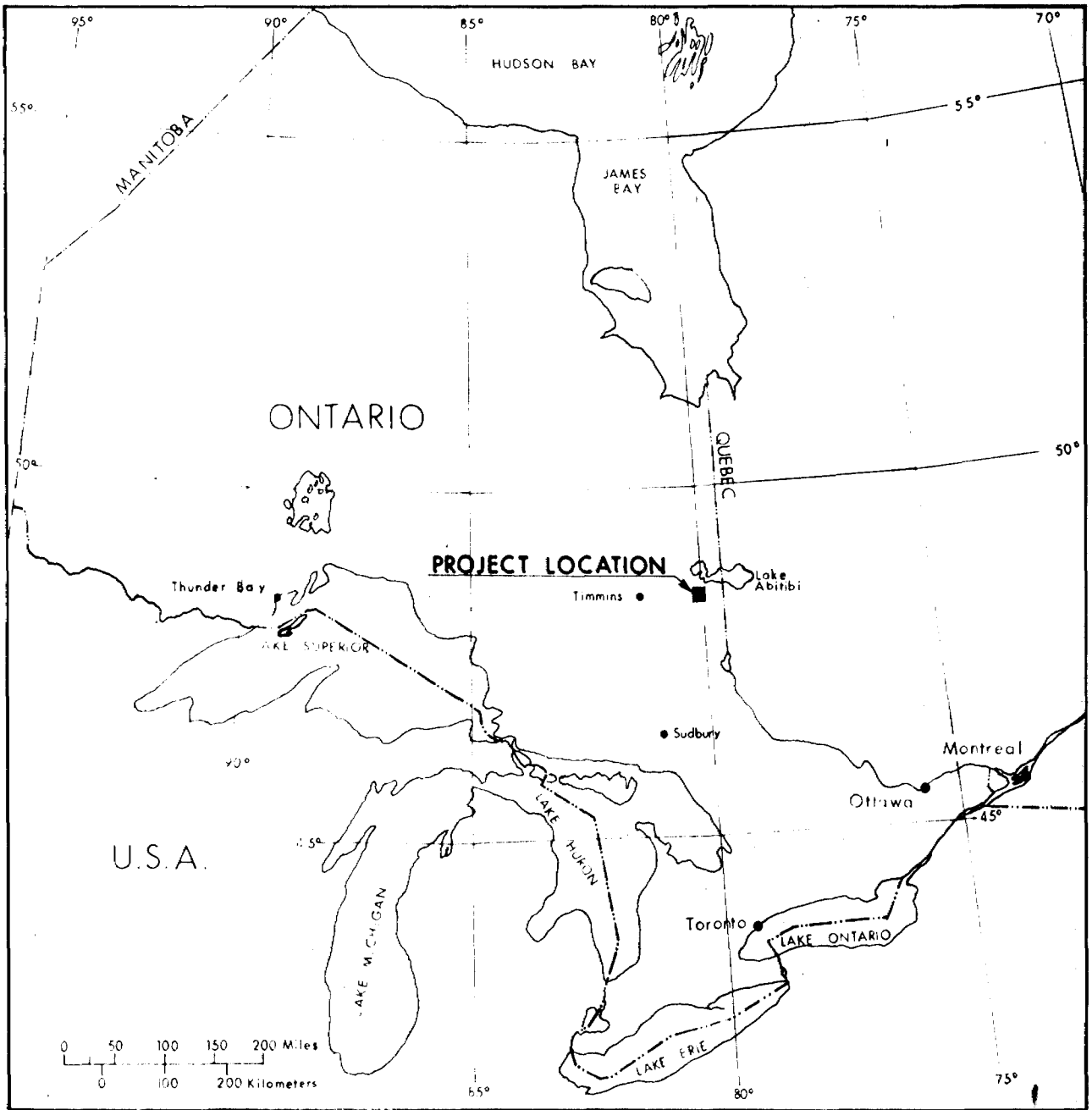
Within the Destor-Porcupine Fault Zone, all older rocks are fractured, sheared, and in part highly altered (frequent talc-chlorite schist from lavas, and widespread carbonatization reaching various degrees and colors: green-grey-buff-cream). The width of the carbonatization might vary from a few feet to over 500 feet. Fresh diabase has been reported intruding the fault at different places.

The amount of movement on the Destor-Porcupine Zone is not known; its type is described as a right-handed strike slip; much of the movement preceded intrusion of the Algomian-type granites, and is pre-ore.

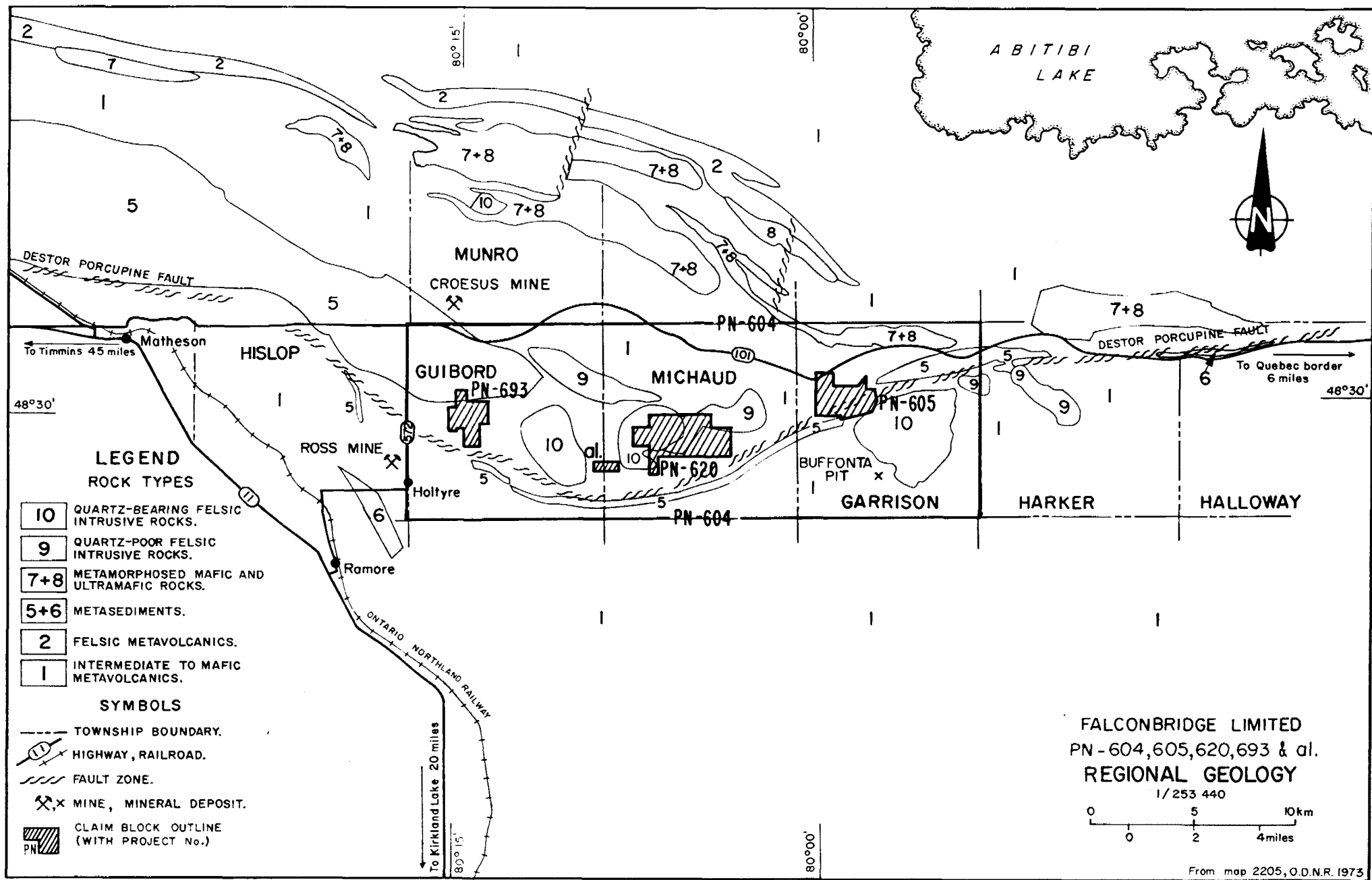
Several northeast to northwest-striking cross-faults have been observed and many more are suspected, which displace the Destor-Porcupine Fault Zone and are also post-ore.

Outcropping amounts to 5% or less in each of the three townships because an extensive and thick Pleistocene cover plagues the area. At many places, the drift thickness reaches 100 to 300 feet and does not allow rock unit correlations, nor age relationship determinations.

The best deposits, in the general area, occur in the Porcupine Camp (very high incidence of quartz-bearing porphyries closely associated with the gold). There are also numerous deposits along the Destor Porcupine fault zone (very little quartz-bearing porphyry, but a very common occurrence of alkalic porphyry intrusive rocks with both the economically good, and the economically poor gold deposits).

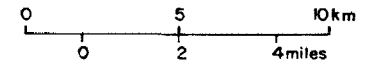


GARRISON CREEK OPTION
 (PN-604, 605, 620, 693 & al.)



FALCONBRIDGE LIMITED
 PN-604,605,620,693 & al.
 REGIONAL GEOLOGY

1/253 440



From map 2205, O.D.N.R. 1973

3. WORK CARRIED OUT

The Garrison Creek C.M.L. properties have been explored extensively in the forties and recently; the 1984 works took into account most former data available.

3.a) Former Works

As stated in Polk & MacVeigh 1975 report, "Exploration work carried out by the predecessor companies of Garrison Creek was directed mainly towards exploring the Destor-Porcupine fault. There was some concentration of work in and near acid "intrusives" and in carbonate rocks where these occur within or near the "break". The same report lists available records by properties and comments the data.

Approximately 27 holes on CAMAN, 24 holes on MARCHAUD, 20 holes on GARRISON CREEK, 1 hole on present MORGAN, and 1 aborted hole on present DUNMAR properties were drilled during the 1940's. Several logs remain unavailable.

Ontario Department of Mines geological reports, covering the three townships at 1 inch to 1,000 feet, became available in the late forties-early fifties.

Since the 1979 agreement, exploration activity resumed on the three main claim groups at a brisk pace, as follow;

- Lines were cut systematically at 400-foot spacing, followed by VLF-EM and proton magnetometer surveys; induced polarization profiles were read over selected VLF-EM targets.
- A reverse circulation overburden drill was tested for a limited geochemistry program.
- Geological mapping and gold rock geochemistry progressed.
- Minor stripping and trenching were undertaken.
- 9,993 feet of diamond drilling (in 14 holes) were performed in 1980 & 1981 on the Marchaud property.

- Grid lines 200 feet apart were cut over the whole three properties, followed by magnetometric surveys, geological mapping, gold geochemistry sampling and measuring old D.D.H. collar location relative to the new line grids.
- Compilation of all available data, initiated early, kept progressing.
- The 1983 I.P. tests showed that thick overburden can be penetrated and that the Ludgate gold zone disseminated sulphide mineralization can be readily traced.

3.b) Works Carried Out in 1984

Compilation, at 1:20 000 scale, of geophysical, geological (outcrop and diamond drill hole), and assay data, progressed significantly and a geological interpretation was produced by Magloire Bérubé, Eng. as shown on general compilation maps in Volume 2.

Induced polarization on lines 400 or 600 feet apart was carried systematically over the three main claim groups, for a total of more than 5,000 reading stations.

Over 900 magnetometric stations were also read, mostly in covering the DUNMAR ground, but also in detail works to improve proposed D.D.H. location.

31,461 feet of AQ wireline drilling were completed in 33 holes on PN-605, 620 and 693. A former on-and-off pit trench, stretching northward some 600 feet from the Ludgate Zone, was stripped mechanically, then hand and water jet cleaned, over a 15-foot width.

Over 3,000 rock samples were sent to laboratories (for assays, gold geochemistry and eleven thin sections).

A table, entitled List of Works Performed in 1984, in Appendix, subdivides these works by project number.

4. 1984 GEOPHYSICAL SURVEYS

4.a) Magnetometric Surveys

The ground total magnetic field and vertical gradient were read with a Scintrex IGS-2 magnetic gradiometer as follow:

- On the DUNMAR property, every 50 feet on north-south lines 200 feet apart, for a total of some 5 miles, part of PN-622 systematic ground coverage survey;

- On some drilling targets every 25 feet on east-west cross-lines, in an effort to better locate diabase intrusives and avoid them in diamond drill holes; these detail surveys amounted to:

- 0.9 mile on PN-620, over 4 lines partly extending over Ludgate lake waters; and
- 2.4 miles on PN-693 (the Guibord Twp. property), over 7 flagged lines and 1 trail.

Total field and gradiometric profiles were drawn in every case, but magnetometric contours were supplied only for the systematic survey of PN-622. The corresponding maps are available in Volume 2.

4.b) Induced Polarization Surveys

Systematic induced polarization surveys were carried out to cover most of the three main claim groups, on lines generally spaced 400 or 600 feet apart; readings were taken at 200 or 300-foot intervals, with a dipole-dipole configuration and usually for 5 depths of investigation.

The instruments used were: 1^o) for PN-605, PN-693 and part of PN-620, a McPhar transmitter 1968 (of 5 amperes and 840 volts) and McPhar receiver P660, frequency domain, using frequencies of 5 & 0.3 Hertz (operated by G. Beier), and

2°) for part of PN-620 a Phoenix IP V(T)-1 using frequencies of 0.25 & 4.0 Hertz (operated by G. Gélinas, of Rémy Bélanger crews).

Pseudo-sections of apparent resistivity, apparent frequency effect and apparent metal factor were constructed; they are available in bound form, regrouped by project number.

Maps of I.P. resistivity contours (5th separation) are gathered in Volume 2.

Bedrock characteristics and great depth of overburden resulted in weak signals, locally complicated by either swampy zones shallow penetration or very dry sand poor contacts for current electrodes. The frequency effect often was of the 1% order; the anomaly searching data interpretation insisted on the resistivity at N=5, and map overlays were constructed of the low resistivity zones.

It must be noted that an inherent inaccuracy exists in conductor location, from these I.P. surveys, because of the wide electrode spacing at N=4 or 5 (which is unavoidable to penetrate the deep overburden); sometimes two nearby anomalies may be caused by a single conductor between them.

FALCONBRIDGE LIMITED &
GARRISON CREEK C.M. Ltd.

GARRISON CREEK OPTION
(PN-604, 605, 620, 693 et al.)

EXPLORATION PERFORMED IN 1984

VOLUME 3 (of 3)

March 1985

GARRISON OPTION "GARRISON TWP." PN-605

1984 DIAMOND DRILL LOGS, ASSAYS,

& GEOCHEMICAL GOLD

HOLES # 605-01 to 605-06

AU GEOCHEMISTRY

Diamond Drill Hole no: 605-01

Township: GARRISON

Log Summary		Geochemistry Sample				
Location (m) From To	<u>Rock type</u>	<u>Sample no.</u>	<u>Location (ft.)</u> From To		<u>Au (ppb)</u>	<u>Remarks</u>
		605-01-01	95	168	40	
		02	168	263	9	
		03	263	367	8	
		04	367	447	58	
		05	447	481	18	
		06	481	485	< 1	
		07	485	498	8	
		08	498	602	5	
		09	602	637	45	
		605-01-10	637	658	< 1	
		11	658	689	11	
		12	689	698	< 1	
		13	698	758	16	
		14	758	770	4	
		15	770	819	11	
		16	819	831	3	
		17	831	841	29	
		18	841	849	10	
		19	849	908	20	
		605-01-20	908	908.5	6	
		21	908.5	976	2	
		22	976	999	< 1	
		23	999	1022	4	
		24	1022	1078	1	
		25	1078	1087	1	
		26	1087	1091	2	
		27	1091	1106	4	

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HOLE NO: 605-01 PAGE: 1 of 8

Drilled by: BRADLEY BROS. LIMITED
 Started: 84 06 26
 Ended: 84 07 04

Property: GARRISON BLOCK; PN-605
 Township: of GARRISON; CLAIM # 42910
 Logged by: J. ANDRÉ CARRIER

Latitude: 40+00S Longitude: 94+00E
 Azimuth: 180° magnetic Dip: -60°(collar), *
 Elevation: ? Length: 1106 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
0	90	NW casing								
0	94	AW casing								
94	1106	AQ wireline core (excellent core recovery, fair to good R.Q.D.) laid into 42 boxes.								
0	94	<u>OVER BURDEN</u> All sand, except for some feet of gravel lying on the bedrock and forming an aquifer.								
94	480.6	<u>REDDISH SYENITE</u> Pink (quartz-rich) to greyish brick red (more mafic); greyish from 408 to 447.5; fine to medium grain, frequently developing a porphyritic texture; whitish core subhedral feldspars partly hematized at their borders; chloritized mafics. Somewhat brecciated rock, frequently showing hairline to millimetric chlorite coatings on fractures. Rock containing a cm. to dm. inclusion of mafic rock, here and there. Weakly magnetic in places below 270.								

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HOLE NO: 605-01 PAGE: 2 of 8

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
(94)	(480.6)	<p>Traces to minor finely disseminated pyrite (occasional py crystals usually near fractures and veinlets).</p> <p>Usual average of 1% mm. to cm. quartz stringers (around 175, 355, 375, 435, and at 418; veinlets and/or stockworks of white and grey quartz, making over 5% of the rock mass and accompanied by minor fine grain pyrite; occasional traces of graphite in the stringers and on joints).</p> <p>Some red felsite dikelets cutting across some quartz stringers in the hematized sections.</p> <p>239-243: some % soft, light yellowish green, alteration mineral (talc mixed with chlorite?) and one cm. carbonate stringer.</p> <p>The same alteration mineral is present in lesser amounts at greater depths.</p> <p>263-367.3: well developed porphyritic texture (263-275 & 310-332: coarser, 3-7 mm, and better subhedral feldspar phenocrysts).</p> <p>353-353.7 & 417.3-418: presence of graphite (bluish black metallic luster soft mineral, mostly on slips in quartz stringers; some times with minor carbonate and some</p>								

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HOLE NO: 605-01

PAGE: 3 of 8

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton	Ag oz./ton		
(94)	(480.6)	minute subequal octahedra of dark bluish grey crystals: traces of galena or molybdenite?) 447.5-470: medium to coarse grain porphyritic syenite, intruded by and intruding into other syenite; holding some quartz stringers.								
		#07001: 10% quartz stringers, minor fine grain Py (mostly accompanying grey quartz), tr. of dark grey galena.	07001	172.5	177.5	5.0	Tr.	0.008		
		#07002: 15% quartz veinlets & stringers, minor graphite, traces of minute Py.	07002	352.9	357.5	4.6	0.024			
		#07003: 25% quartz veinlets & stringers, minor minute Py.	07003	372.0	378.0	6.0	Tr.			
		#07004: 5% quartz in a single veinlet holding minor graphite and traces of galena or molybdenite; minor minute Py.	07004	414.0	420.0	6.0	0.008	0.042		
		#07005: control (checking of metal content).	07005	429.0	433.0	4.0	Tr.			
		#07006: 25% quartz veinlets & stringers, traces of Py, traces of galena.	07006	433.0	438.0	5.0	0.018	0.006		

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HOLE NO: 605-01 PAGE: 4 of 8

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
480.6	485.2	<p><u>LATITE (or TRACHYTE?) DYKE</u></p> <p>Grey, somewhat translucent on thin edge, approximately 5% fine to medium grain phenocrysts (generally whitish to pinkish subhedral to anhedral feldspars).</p> <p>Suggestion of flow banding at upper contact (45°CA). Lower contact irregular (~45°).</p>								
485.2	818.5	<p><u>REDDISH SYENITE</u></p> <p>(quite similar to 94-480.6)</p> <p>Greyish red, fine to medium grain; porphyritic feldspars. [lighter red and medium to coarse grain porphyritic syenite: 485-497.5, 602-637, 658-689, 698-757.5 (somewhat mixed), 770-818.5 (multiple pericontemporaneous intrusions)]. Magnetic in places.</p> <p>Occasional inclusion of light color medium to coarse grain syenite</p> <p>Occasional quartz stringers (1-20 mm thick) rarely with trace of calcite; holding carbonates at 698.2 and pink feldspars at 743.5 & 795.5.</p>								

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HOLE NO: 605-01

PAGE: 5 of 8

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
818.5	848.6	<p><u>INTRUSIVE CONTACT ZONE</u></p> <p>818.5-830.5: andesite inclusion showing several carbonate stringers; the rock is chloritized and epidotized.</p> <p>830.5-841: reddish syenite, quite similar to the main mass.</p> <p>841-848.6: intrusion breccia (apparently fragments of stopped-in lava floating into porphyritic syenite paste) containing andesite fragments of 1-30cm across.</p> <p>All these rock units are magnetic in places. The lower contact makes $\sim 55^{\circ}\text{C/A}$.</p>								
848.6	908.0	<p><u>ANDESITE</u></p> <p>Blackish green, rather fine grain, locally brecciated; chloritized and epidotized. Medium to weakly magnetic.</p> <p>1-5% hairline to cm. stringers of calcite or quartz (sometimes of skarn and/or epidote), often somewhat wuggy.</p> <p>872.8-873.4: porphyritic syenite dykelet (40°C/A)</p> <p>896.8-897.4: idem (but 25°C/A).</p> <p>874-875: minor pyrite.</p> <p>Six-inch carbonate interbed at lower contact (35 to 60°C/A).</p>								

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HOLE NO: 605-01 PAGE: 6 of 8

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
(848.6)	(908.0)	#07007: ~ 1/2% Py over one foot, some wuggy skarn & epidote stringers, syenite dykelet	07007	872.0	877.0	5.0	0.010			
908.5	976.2	<u>GABBRO</u> Greenish black, medium to coarse grain; less distinct grain at both contacts. Chloritized ferromagnesian, frequent epidotized portions. Fairly magnetic in places. Average of 1% hairline to cm-thick stringers of quartz-carbonate, occasionally with minor skarn. Some cm. to dm. dykelets of syenite (20 to 60°C/A). Minor Py in places.								
976.2	999	<u>SYENITE</u> Medium grain, porphyritic. Upper contact clearly intrusive into the gabbro; lower contact showing something of a selvage (3mm) in the syenite, which is apparent over 2 feet of a slightly undulating contact. Occasional inclusion of basalt (mineralized with 2% disseminated Py near 995.6).								

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HOLE NO: 605-01 PAGE: 7 of 8

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
999	1022.0	<u>BASALT</u> Blackish green, fine to medium grain. (Gabbro look in coarser portions); chloritized, epidotized in places. Fairly magnetic. 1-4% syenite dykelets, skarn and epidote stringers, quartz and carbonate stringers. Minor disseminated py here and there.								
1022.0	1077.7	<u>INTRUSION BRECCIA</u> 40% syenite matrix containing 60% basalt angular inclusions (less than 1 to 100 cm across). The syenite is porphyritic, mostly medium grain, pink to reddish grey; the basalt is of varying grain size, chloritized, and with local epidote development.								
1077.7	1086.5	<u>BASALT</u> Greenish black, fine to medium grain, chloritized, frequent epidote, local skarn.								
1086.5	1088.4	<u>SYENITE DYKE</u> Greyish pink, fine to medium grain, porphyritic.								
1088.4	1090.5	<u>CARBONATE INTERCEPT</u> Marble appearance; white, grey, pink,								

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HOLE NO: 605-01 PAGE: 8 of 8

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
(1088.4)	(1090.5)	brownish, greenish; calcite & probable dolomite, some garnet patches. Non magnetic.								
1090.5	1106	<u>BASALT</u> Dark greenish grey, fine to medium grain; ferromagnesian chloritized, epidote well developed in several medium grain portions. Fairly magnetic. ~1% hairline to 2mm-thick carbonate and quartz stringers.								
	1106	<u>END OF HOLE.</u>								
		Casings pulled out; red painted wooden post, bearing aluminum identification tag, set into the hole collar.								
		* Etch tube dip determinations: -58° (300'), -58° (600'), -54° (900').								
		J. André Carrier 84 07 07								

AU GEOCHEMISTRY

Diamond Drill Hole no: 605-02

Township: GARRISON

Log Summary		Geochemistry Sample					
Location (m) From To		Rock type	Sample no.	Location (ft.) From To		Au (ppb)	Remarks
			605-02-01	202	215	1	
			02	215	243	1	
			03	243	322	3	
			04	322	351	1	
			05	351	385	1	
			06	385	390	6	
			07	390	462	2	
			08	462	482	4	
			09	482	493	6	
			605-02-10	493	497	1	
			11	497	533	3	
			12	533	546	12	
			13	546	563	38	
			14	563	572	11	
			15	572	580	15	
			16	580	595	37	
			17	595	614	2	
			18	614	664	15	
			19	664	670	2550	open fractures
			605-02-20	670	693	29	
			21	693	771	9	
			22	771	791	4	
			23	791	814.5	2	
			24	814.5	831	21	
			25	831	872	2	
			26	872	888	2	
			27	888	938.6	12	
			28	938.6	949.2	31	
			29	949.2	972	2	
			605-02-30	972	976	17	
			31	976	992	1	
			32	992	1058	2	less next 2
			33	1021	1024	35	
			34	1034	1037	31	

AU GEOCHEMISTRY

Diamond Drill Hole no: 605-02

Township: GARRISON

Log Summary

Geochemistry Sample

Location (m) From To		Rock type	Sample no.	Location (ft.) From To		Au (ppb)	Remarks
			605-02-35	1058	1137	14	less next 1
			36	1109	1127	2	
			37	1137	1139	34	
			38	1139	1190	2	
			39	1190	1240	464	epidotized
			605-02-40	1240	1260	2	
			41	1260	1304	15	
			42	1304	1386	4	
			43	1386	1388	32	
			44	1389.3	1390.1	82	quartz veinlet
			45	1388	1397	305	less former 1
			46	1397	1402	16	
			47	1413.5	1417	92	finer-grained
				1419	1422		
				1429.5	1435.5		
				1440.5	1444.5		
			48	1402	1452	4	less former 1
			49	1452	1460	5240	finer-grained
				1466	1470		
				1476	1478.5		
				1489	1497		
			605-02-50	1460	1506	11	less former 1

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HOLE NO: 605-02

PAGE: 1 of 21

Drilled by: BRADLEY BROS. LIMITED
 Started: 84 07 04
 Ended: 84 07 18

Property: GARRISON BLOCK ; PN-605
 Township: of GARRISON ; CLAIM # 42918
 Logged by: J. ANDRÉ CARRIER

Latitude: 0+50N
 Azimuth: 180° magnetic
 Élévation: ?

Longitude: 38+00E
 Dip: -60° (collar), *
 Length: 1506 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
0	170	NW casing								
0	202	AW casing								
202	1506	AQ wireline core (excellent to good core recovery, good to poor R.Q.D.) laid into 56 boxes.								
0	202	<u>OVERBURDEN</u> (0-170): sand (170-202): gravel and boulders.								
202	215.5	<u>ANDESITE</u> Greyish green, fine grain, well fractured; chloritized and epidotized. Somewhat blocky core.								
215.5	243.2	<u>DACITE</u> Greenish grey, fine grain; chloritized, some epidote. 1-2% hairline to mm. carbonate stringers on lower third. Upper contact has a pinkish alteration. (216.0-221.0): more siliceous; pinkish alteration and holding 1-3% fine grain disseminated Py over one foot.								

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HOLE NO: 605-02 PAGE: 2 of 21

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
243.2	322.4	<p><u>RHYODACITE</u></p> <p>Medium grey (with pistachio green stringers and patches, sometimes accompanied by pinkish alteration); chloritized, very siliceous in several places; fractured; 1-2% mm. carbonate-quartz stringers.</p> <p>Fairly magnetic over some feet from both contacts, and from 290-300'.</p> <p>(286.3-288.6): reddish alteration with epidote and ~2% fine to medium grain disseminated Py.</p> <p>(290-300): a little reddish alteration developing at lower contact.</p> <p>(303.5-304): possible flow contact (tuff, sediment or shear horizon).</p> <p>07009: 1-2% fine to medium grain Py, reddish alteration (1.8° of core in the sampled half).</p> <p>07010: footwall control.</p>								
322.4	~351	<p><u>BASALT</u></p> <p>Medium to dark greyish green; fine grain (medium grain 336-339), chloritized; magnetic near 341; some chloritic shears; 1-2% hairline to cm. carbonate stringers.</p> <p>A little Py near 327.</p>								
			07009	286.3	288.6	2.3	Tr.			
			07010	288.6	293.0	5.0	Tr.			

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HOLE NO: 605-02 . PAGE: 3 of 21

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
~351	385.0	(329.0-331.1): Rhyodacite (quite siliceous and showing pink alteration); minor to 1% very fine grain Py. <u>ANDESITE</u> (diorite-gabbro appearance) Medium greenish grey, medium grain; chloritized mafics, some epidote; not many carbonate quartz stringers. Lowest two feet are magnetic. Only trace of pyrite.								
385.0	390.0	<u>LAMPROPHYRE</u> Blackish grey with a tinge of purple; fine to medium grain; suggestion of banding not clear. Somewhat carbonated, somewhat magnetic all through. Biotite constitutes most of the ferromagnesian. 1% hairline carbonate stringers. Minor fine grain Py (a little more at lower contact). Lower contact approximately 25°C/A.								
390.0	462	<u>BASALT</u> Medium to dark greyish green, fine grain, chloritized, probably some epidote; often magnetic. 1-3% quartz-carbonate stringers & patches. Disseminated fine grain Py here and there (presently; next to quartz-carbonate stringers.								

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HOLE NO: 605-02

PAGE: 4 of 21

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
462	482	<u>FELDSPAR PORPHYRY</u> Salmon to medium reddish grey; fine grain matrix; hard to scratch. Fairly magnetic. 3-8% euhedral to subhedral feldspar phenocrysts (1-20 cm in their longest dimension, often zoned with grey center and whitish rim). 3-5% hairline to cm. carbonate-quartz stringers. Upper contact: 30-45°C/A; lower contact banding: ~50°C/A. Minor Py reaching 3% over one foot at lower contact zone.								
		07037: minor Py (mostly blebs in fractures)	07037	462.0	465.0	3.0	Tr.			
		07038: " " "	07038	465.0	470.0	5.0	Tr.			
		07039: " " "	07039	470.0	475.0	5.0	Nil			
		07011: hanging-wall control	07011	475.0	480.0	5.0	Tr.			
		07012: 2% Py, contact zone	07012	480.0	481.5	1.5	0.034			
482	493	<u>TUFF</u> Greenish to blackish grey to grey; fair suggestion of bedding $\approx 40^\circ\text{C/A}$; chloritized, epidote patches & stringers, some sharp stringers; magnetic. Some portions are like metabasalt. (486.8-487.5): chert-like horizon.								

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HOLE NO: 605-02

PAGE: 5 of 21

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AV oz./ton			
		07013: Footwall control, minor Py disseminated	07013	481.5	486.5	5.0	Tr.			
		07014: 1/2% Py, fine-grain disseminated in a carbonated zone with some chann.	07014	486.5	491.5	5.0	Tr.			
493	497.1	<u>ANDESITE</u> Medium grey (tinge of greenish, and of purple at lower end); fine grain. Practically non magnetic. Patch of quartz with some carbonate near 494; some mm. stringers of carbonate elsewhere.								
497.1	563.0	<u>GABBRO</u> Dark greenish grey; rather fine grain; little carbonate, if any, in the less altered mass. Quite magnetic. ~1% mm. carbonate stringers. Contamination or inclusions: - very siliceous on both sides of quartz carbonate veinlets at 506 and 510, - possible inclusion of non magnetic andesite from 533.0 to 535.5, - selvage contact from 537-539, - epidote patches & stringers frequent (most abundant 539-546). Some Py disseminated throughout. 07028: minor Py, altered rock	07028	497.0	502.0	5.0	Tr.			

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HOLE NO: 605-02

PAGE: 6 of 21

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
563.0	572.0	07029: tr. Py, silicified and 4" quartz veinlet	07029	502.0	507.0	5.0	Tr.			
		07030: ~1/2% Py (mostly within 1' of contact)	07030	558.5	563.5	5.0	0.008			
		<u>LAMPROPHYRE</u> (Similar to 385.0-390.0) Non magnetic. Contacts 20°C/A.								
572.0	579.5	<u>BASALT</u> Dark greenish grey, rather fine grain; epidotized and chloritized; fairly magnetic in places. Some carbonate stringers. Average of 1/2% fine grain Py (locally in mm. stringers and small blebs). 07015: ~1/4% Py, disseminated & some blebs 07016: 1% Py, mostly blebs & stringers	07015	572.0	577.0	5.0	Tr.			
			07016	577.0	579.5	2.5	Tr.			
579.5	594.7	<u>INTERMEDIATE TUFF</u> (possibly with basalt) Dark to medium greenish grey, fine grain; frequent mm. laminations (averaging 30°C/A); locally carbonated with mm. stringers; practically non magnetic. Minor to trace of Py. 07017: minor Py 07018: minor Py 07019: ~1/4% Py (mostly following stringers)	07017	579.5	584.5	5.0	Tr.			
			07018	584.5	589.5	5.0	Tr.			
			07019	589.5	594.7	5.2	Tr.			

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HOLE NO: 605-02

PAGE: 7 of 21

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
594.7	614.2	<u>BASIC LAVAS & CONTACT ZONE</u> Dark gray, and mottled green with pinkish and light gray. Mostly fine grain; chloritized mafics, epidote relatively abundant; frequently fairly magnetic. A little carbonated (stringers and fine banding). Banding in several places, including lowest 6" (~90° C/A). Average of 1/4% Py (mm. crystals & blebs, some in short stringers, some disseminated); 3/4" of massive Py at 604.8 and a couple of mm. stringers farther down. 07020: <1/4% Py (crystals & blebs) 07021: 1/4% Py (stringer, blebs, crystals) 07022: ~1/2% Py (mostly from one veinlet of fine to medium grain crystals) 07023: 1/4% Py (complex shape blebs & dissem.)								
			07020	594.7	599.7	5.0	Tr.			
			07021	599.7	604.7	5.0	Tr.			
			07022	604.7	609.7	5.0	Tr.			
			07023	609.7	614.2	4.5	Tr.			
614.2	771	<u>GABBRO</u> Greenish grey; medium grain (somewhat finer at contacts and adjacent to inclusions and rock mixtures). Feldspar partly epidotized; ferromagnesian chloritized in part only, and showing fairly subhedral outlines. Magnetic 614 to ~696, practically non-magnetic thereafter.								

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HOLE NO: 605-02

PAGE: 8 of 21

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		<p>Carbonated when forming a rock admixture or near quartz-carbonate & epidote stringers and patches.</p> <p>Upper contact (~45°) adjacent to a laminated carbonate horizon; lower contact is not clearcut (possibly at 763.8, probably near 771).</p> <p>Traces of Py everywhere; numerous portions with blebs and disseminations averaging less than 1% Py.</p> <p>(651.5-677.5): zone of chloritized rock admixture (approx. 2/3 contaminated gabbro, basalt inclusions partly destroyed, probably some metasediments, approximately 5% veinlets of carbonates, small chloritized patches often with epidote and combined to a purple or reddish tinge); 663-672.5 holding close to 50% basalt.</p> <p>(664-670): several open fractures probably; drillers lost return water at 665.5 and reported a seam to 668.5.</p> <p>(763.8-765.6): dark grey, chloritized, fine grain, porphyritic dyke (possibly an inclusion!); both contacts 30° C/A.</p> <p>07024: ~1/2% Py; finely disseminated, some mm. cubic crystals.</p>	07024	614.2	619.2	5.0	Tr.			

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HOLE NO: 605-02

PAGE: 9 of 21

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		07025: ~1/2% Py; fine-grained, some mm. cubes	07025	619.2	624.2	5.0	Tr.			
		07026: ~1/2% Py; fine-grained, some mm. cubes	07026	624.2	629.2	5.0	Tr.			
		07483: <1/8% Py (fine-grained, coarser in epidote stringers & patches); green medium-grained epidotized & chloritized gabbro	07483	645.8	650.5	4.7	Tr.			
		07484: >1/8% Py (finely disseminated & following laminations); 85% greenish black chloritized gabbro (a little epidote), grains texture disappeared in half of it; carbonate-bearing here & there, mostly in stringers; 15% laminated carbonate-bearing portions (tinge of red at lowest end).	07484	650.5	655.0	4.5	0.002			
		07485: ~1/8% Py (finely disseminated & in stringers); dark brownish green (some reddish tinge) chloritized epidotized gabbro, grains recognizable generally; a little carbonate scales & stringers at most places. Vuggy open fracture with calcite at 658.5.	07485	655.0	659.0	4.0	0.002			
		07486: <1/8% Py (some medium grains & disseminated finely); chloritized-epidotized gabbro (definite grains in first 3 feet, brecciated over the fourth foot and fine-grained chloritic darker andesite-like on the last foot); some carbonate	07486	659.0	664.0	5.0	Tr.			

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HOLE NO: 605 - 02

PAGE: 10 of 21

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		<i>everywhere, mostly in stringers and small interstitial fillings.</i>								
		<i>07487: ~1/8% Py (disseminated but mostly in deformed laminations at 667); blackish brownish green chloritized & epidotized gabbro (granular texture recognizable over half of it), brecciated-like at most places; a little carbonated almost everywhere, some stringers. 4 feet of core recovered. Blochy core.</i>	<i>07487</i>	<i>664.0</i>	<i>668.5</i>	<i>4.5</i>	<i>0.016</i>			
		<i>07488: traces of Py; greenish black chloritic, mostly fine-grained rock, clearly laminated over the last foot (part of it reddish purple tinge), a little carbonated almost everywhere.</i>	<i>07488</i>	<i>668.5</i>	<i>672.5</i>	<i>4.0</i>	<i>0.012</i>			
		<i>07489: minor Py (mostly near 673.5); blackish brownish green chloritized foliated gabbro (some epidote, some reddish streaks); more foliated in upper half; all carbonated (mostly in stringers)</i>	<i>07489</i>	<i>672.5</i>	<i>677.9</i>	<i>5.3</i>	<i>0.004</i>			
		<i>07490: minor Py (near epidote stringers); dark green chloritized epidotized medium-grained gabbro; some calcite near 680 and a 2 cm epidote stringer (~15°C/A)</i>	<i>07490</i>	<i>677.8</i>	<i>683.0</i>	<i>5.2</i>	<i>Tr.</i>			

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HOLE NO: 605-02

PAGE: 11 of 21

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		07031: 3/4% Py (mostly in epidotized slips and some disseminated)	07031	688.0	693.0	5.0	Tr.			
		07027: < 1/2% Py; finely disseminated, some mm. cubes.	07027	716.0	721.0	5.0	Tr.			
771	1260	<p><u>INTERMEDIATE TO BASIC LAVAS</u></p> <p>(Several flows and some tuff bands)</p> <p>Dark greens and greys. Generally fine grain. Occasionally a little carbonated in the mass; 1-3% carbonates mostly in hairline & mm. stringers, also in blebs. The rock is magnetic here and there (especially 1200-1260). Often blocky core.</p> <p>Minor Py frequent, either disseminated or adjacent to minute fractures. More at depth, in complex shapes, even matrix of brecciated portions.</p> <p>(791-814.5, 871-888, 905.5-920, 931-932, 1058-1195, & here and there from 1195 to 1240): spotted with epidote (small veins or spots or amygdulose, also stringers and amibone from fractures) sometimes with olivine-like core. More spotted at depth and especially from 1172 to 1178.</p> <p>(787.0-788.0): white quartz veinlet with 10% mm. to cm. angular rock fragments. Lower contact 20°C/A.</p> <p>(814.5-831): several portions with laminations.</p>								

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HOLE NO: 605-02

PAGE: 12 of 21

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
(771	1260)	<p>(831-872, 992-1021, 1024-1031): relatively homogeneous lava; showing occasional carbonated laminations & some carbonatization elsewhere, containing 1% Py over one foot to some inches here and there.</p> <p>(938.6-949.2, 1034-1036.5): dark reddish grey <u>feldspar felsite</u>; ~5% medium to coarse euhedral feldspar phenocrysts (partly hematized & bleached), slightly carbonatized and hematized; minor very fine grain Py.</p> <p>(972.3-975.5): two feet of homogeneous dark grey metasediment lying on one foot of marbled impure limestone containing 2 cm. Py-rich laminations near the base.</p> <p>(1021-1024): brecciated zone, calcitic matrix, minor Py.</p> <p>(1137.2-1139): dark greenish grey sediments, carbonated, contorted laminations, brecciated; 1% Py, fine-grained in pseudo-stringers.</p> <p>(1109 & 1127): 2" & 4" quartz veinlets with epidote walls.</p> <p>(870-890, 950-970, 1191-1257): blocky core here and there.</p> <p>(770-780, 796-806, 932-947, 985-990, 1025-1051): quite blocky core; drillers reported seams at 936 and 1240, lost water at 1072.</p> <p>(801.5-802, 996.5-997, 1013.5-1014.5, 1021.5-1022, 1036.5-1037.5, 1039.5-1040, 1041-1041.5, 1044-1045, 1045.5-1046.5, 1072-1073, 1104.5-1105, 1136-1136.5,</p>								

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HOLE NO: 605-02

PAGE: 13 of 21

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
(77)	1260)	1192-1193, 1205.5-1206, 1213-1213.5, 1226-1226.5, 1238-1238.5, 1240-1242, 1242.5-1243, 1248-1248.5, 1250.5-1251, 1257.5-1258): Lost core or no core.								
		07032: ~1/4% Py; fine grain, mostly on fractures	07032	782.0	787.0	5.0	Tr.			
		07033: quartz veinlet	07033	787.0	788.0	1.0	Tr.			
		07034: <1/4% Py; fine disseminated & crystals	07034	830.0	835.0	5.0	Tr.			
		07035: " " "	07035	835.0	840.0	5.0	Tr.			
		07036: 1/4% Py; fine to mm. cubes, several blebs	07036	840.0	845.0	5.0	Tr.			
		07040: 1/4% Py; 2% wuggy quartz-carbonate stringers; control.	07040	890.0	895.0	5.0	Tr.			
		07041: <1/4% Py; 5-10% wuggy epidote stringers and patches.	07041	905.0	910.0	5.0	Nil			
		07042: control of feldspar felcrite hanging-wall	07042	933.5	938.5	5.0	0.005			
		07043: feldspar felcrite; 4' of core recovered	07043	938.5	943.5	5.0	Nil			
		07044: feldspar felcrite	07044	943.5	949.2	5.7	0.005			
		07045: minor Py, control	07045	967.3	972.3	5.0	Nil			
		07046: 1% Py (disseminated and two Py-rich laminations in carbonate), 2 cm. quartz stringers	07046	972.3	975.5	3.2	0.005			
		07047: minor Py, control; 4.5' of core recov.	07047	975.5	980.5	5.0	Tr.			
		07070: ~1/4% Py in narrow bands; 6.0' of core	07070	996.5	1003.0	6.5	Tr.			
		07048: control	07048	1016.0	1021.0	5.0	Tr.			
		07049: minor Py, brecciated zone	07049	1021.0	1024.0	3.0	Tr.			

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HOLE NO: 605-02

PAGE: 14 of 21

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
(771	1260)	07050 : control, some breccia	07050	1024.0	1029.0	5.0	Nil			
		07051 : control, a little brecciated	07051	1029.0	1034.0	5.0	Nil			
		07052 : felsite	07052	1034.0	1036.5	2.5	Nil			
		07053 : control, 1/4% Py	07053	1036.5	1041.5	5.0	Nil			
		07054 : tr Py, control	07054	1060.0	1065.0	5.0	Nil			
		07055 : 1/2% Py (stringers and dispersed in narrow breccia)	07055	1065.0	1070.0	5.0	Nil			
		07056 : minor Py, dispersed in narrow breccia	07056	1070.0	1075.0	5.0	Nil			
		07057 : 1/4% Py, disseminated in epidotized narrow breccia	07057	1075.0	1080.0	5.0	Nil			
		07058 : 1/4% Py, in fractured lamina; 4.5' of core	07058	1100.0	1105.0	5.0	Nil			
		07059 : Control	07059	1132.0	1137.0	5.0	Nil			
		07060 : 1% Py, in deformed metasediment	07060	1137.0	1139.0	2.0	Tr.			
		07061 : Control	07061	1139.0	1144.0	5.0	0.005			
		07062 : 1% Py blebs & stringers	07062	1144.0	1149.0	5.0	Tr.			
		07063 : 1/2% Py, disseminated in narrow bands	07063	1149.0	1154.0	5.0	Tr.			
		07064 : minor Py in epidote stringers	07064	1154.0	1159.0	5.0	0.005			
		07065 : 1/4% Py; stringers & breccia with minor garnet	07065	1159.0	1164.0	5.0	Tr.			
		07066 : ~1/4% Py, various forms	07066	1164.0	1169.0	5.0	Tr.			
		07067 : minor Py (1/2" Py-bearing interflow band taken out as petrographic sample)	07067	1169.0	1174.0	5.0	Tr.			
		07068 : minor Py	07068	1174.0	1179.0	5.0	Tr.			
		07069 : ~1/4% Py, disseminated in interflow band.	07069	1179.0	1184.0	5.0	Tr.			

Falconbridge Ltd.

HOLE NO: 605-02

PAGE: 15 of 21

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
(771	1260)	07575: Dark greenish (epidotized amygdules, possibly with garnet core) volcanic rock; minor Py on joints. 5.5' of core recovered (lost core 1190.5-1191).	07575	1190.0	1196.0	6.0	Tr.			
		07229: 1% Py (epidote linked, located interflow or interpillow)	07229	1196.0	1201.0	5.0	Tr.			
		07230: <1/2% Py (idem above); 4.5' of core	07230	1201.0	1206.0	5.0	Tr.			
		07231: ~1/2% Py (idem above); 3% quartz (veinlet)	07231	1206.0	1211.0	5.0	Tr.			
		07232: minor Py (in stringer and lamination); 4.5' of core	07232	1211.0	1216.0	5.0	Tr.			
		07233: minor Py (linked to epidote)	07233	1216.0	1221.0	5.0	Tr.			
		07234: 1/2% Py in minute stringers and disseminated (most of it interflow)	07234	1221.0	1226.0	5.0	Tr.			
		07235: ~1/4% Py; 10% quartz (veinlet).	07235	1226.0	1231.0	5.0	0.014			
		07576: Dark greenish (~3% epidotized stringers & amygdules) magnetic volcanic rock; ~1% carbonate stringers, <1/4% Py locally.	07576	1231.0	1235.0	4.0	Tr.			
		07577: Dark greenish (~2% epidotized stringers, some amygdules) volcanic rock; ~1% carbonate stringers, magnetic at upper end; <1/4% Py locally.	07577	1235.0	1240.0	5.0	NIL			

Falconbridge Ltd.

HOLE NO: 605-02

PAGE: 16 of 21

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
1260	1304	<p><u>GABBRO</u></p> <p>Greyish green, fine to medium grain, chloritized, epidotized. Possibly a thick homogeneous basalt. Non magnetic.</p> <p>1-3% calcite-quartz stringers</p> <p>Minor Py (fine to 2mm grains); at 1282, blotch of chalcoppyrite in a carbonate veinlet.</p> <p>07236: 1/4% Py (mm. cubes & blobs); control.</p> <p>07237: minor Py (trace disseminated & one blob).</p> <p>07238: control; chalcoppyrite blotch, minor Py and chalcoppyrite in stringers.</p> <p>07239: minor Py in stringers; control.</p>								
			07236	1263.0	1268.0	5.0	0.002			
			07237	1268.0	1273.0	5.0	Tr.			
			07238	1278.0	1283.0	5.0	Tr.			
			07239	1299.0	1304.0	5.0	0.002			

Falconbridge Ltd.

HOLE NO: 605-02

PAGE: 17 of 21

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
1304	1386	<p><u>ANDESITES - DACITES</u></p> <p>Half of it little altered or silicified (hard to scratch). Vitreous dark grey to greenish grey; brecciated at several places; some epidote stringers & patches. Magnetic 1304-1322 and 1344.</p> <p>Locally less than 1% Py average (from concentrations at interflow contacts and in some stringers).</p> <p>Rather gradual lower contact.</p> <p>(1354-1372): more homogeneous fine grain lava (basalt?)</p> <p>(1375-1380): some breccia with 2 calcite veinlets</p> <p>07240: $\geq 1/4\%$ Py (interflow laminal & dissem.)</p> <p>07241: $\sim 1\%$ Py, fine grain in patches, stringers, blebs, etc.</p> <p>07242: heavy Py in cm. interflow lamina</p> <p>07243: control; minor fine grain Py in stringers</p>								
			07240	1304.0	1309.0	5.0	0.002			
			07241	1309.0	1314.0	5.0	Tr.			
			07242	1339.0	1344.0	5.0	Tr.			
			07243	1381.0	1386.0	5.0	0.002			
1386	1402	<p><u>TUFF ASSEMBLAGE</u></p> <p>Two feet of intermediate tuff (medium to dark grey, mm. with some cm. laminated, a little schistose) overlying siliceous tuff (light beige grey, mm. to cm., some portions rather massive-looking) grading over 3' at depth into 2' of basic tuff (blackish, very chloritic). Lower contact</p>								

Falconbridge Ltd.

HOLE NO: 605-02

PAGE: 18 of 21

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		<p>approximate (gradual change in composition to chloritized gabbro!)</p> <p>Bedding schistosity 65°/A at 1387, 55°/A at 1393, 50°/A at 1398, ~45° at 1401.</p> <p>1-2% fine-grain Py, often parallel to laminations.</p> <p>(1387.5 & 1388.5): traces of K feldspar & hematization</p> <p>(1389.3-1390.1): white quartz vein</p>								
		07244: 1/4% Py (fine-grain, linked to reddish portions)	07244	1386.0	1390.0	4.0	0.002			
		07245: 2-3% Py, fine-grain (disseminated & laminated; 25% quartz, (one single veinlet)	07245	1390.0	1394.0	4.0	0.018			
		07246: 1-2% Py, fine-grain (disseminated & laminated)	07246	1394.0	1399.0	5.0	0.002			
		07247: ≤ 1/2% Py (fine-grain, 1mm, disseminated)	07247	1399.0	1402.0	3.0	0.002			
1402	1506	<p><u>GREEN GABBRO</u></p> <p>Dark grayish green, fine to medium grain; epidotized feldspars, chloritized mafics. Occasional mm. to cm. calcite stringers (more abundant 1430-1444) in the fresher parts.</p> <p>30% finer-grain portions, chloritized and carbonated (probably digested inclusions), sometimes foliated 90° to 60°/A average. These portions are located: 1413.5-1417, 1419-1422, 1429.5-1435.5, 1440.5-1444.5, 1452.0-1460.0, 1466-1470, 1476-1478.5,</p>								

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HOLE NO: 605-02 PAGE: 19 of 21

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
(1402	1506)	1489-1497. Minor Py here and there. (1430-1432): 50% quartz-carbonate veinlets (Fe-bearing carbonates quickly weathering brownish), ~1/4% Py; 8" quartz-carbonate veinlet. (1490-1491): 6" quartz veinlet in the center of a small breccia (cm. angular fragments set in Fe-bearing calcite cement).								
		07248: control	07248	1402.0	1407.0	3.0	Tr.			
		07249: fine-grained contaminated gabbro; 25% calcite-quartz veinlets	07249	1422.0	1434.0	5.0	0.036			
		07250: typical medium grained fresher gabbro (although holding some calcite & epidote); no sulfide to speak of.	07250	1447.0	1452.0	5.0	0.002			
		07578: minor Py; fine-grained, epidotized gabbroic, 4% quartz stringers; one mm. hematized stringers.	07578	1452.0	1457.0	5.0	NIL			
		07579: minor Py; fine to medium grained, epidotized gabbroic, one mm. & one cm. hematized stringers; 2-3% quartz and epidote stringers	07579	1457.0	1462.0	5.0	Tr.			
		07580: minor Py; fine to medium-grained, epidotized gabbroic; trace of hematized stringer; ~2% epidote and quartz stringers.	07580	1462.0	1467.0	5.0	Tr.			

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HOLE NO: 605-02

PAGE: 20 of 21

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton	REJECT	AVERAGE
(1402	1506)	07251: ~1% Py, disseminated; strong epidote, some hematized streaks, a little calcite.	07251	1467.0	1470.0	3.0	0.002		
		07305: minor Py, ~5% carbonate veinlet.	07305	1470.0	1475.0	5.0	0.002		
		07306: minor Py, ~10% epidote, ~20% fine grained portions.	07306	1475.0	1480.0	5.0	0.005		
		07307: <1/4% Py, ~4% epidote, tr. quartz veinlets	07307	1480.0	1485.0	5.0	Tr.		
		07308: <1/8% Py, ~5% carbonate veinlet.	07308	1485.0	1489.0	4.0	0.002		
		07252: minor Py; fine grained contaminated gabbro, 3% calcite, 10% quartz.	07252	1489.0	1492.0	3.0	0.467	0.38	0.4235
		07253: minor fine-grained Py; fine-grained contaminated gabbro, 5% calcite-quartz stringers.	07253	1492.0	1497.0	5.0	0.032		

Falconbridge Ltd.

HOLE NO: 605-02

PAGE: 21 of 21

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
		07309: minor Py, ~2% quartz-carbonate stringers	07309	1497.0	1502.0	5.0	Tr.			
		07310: minor Py, ~2% quartz-carbonate stringers	07310	1502.0	1506.0	4.0	0.011			
	1506	<u>END OF HOLE</u>								
		Casings pulled out; red painted wooden post, bearing aluminum identification tag, set into the hole collar.								
		* Etch tube dip determinations: -62.5°(300'), -60°(600'), -57.5°(900'), -59°(1200'), -55°(1506').								
		J. André Carrier								
		84 10 03								

AU GEOCHEMISTRY

Diamond Drill Hole no: 605-03

Township: GARRISON

Log Summary		Geochemistry Sample				
Location (m) From To		Sample no.	Location (ft.) From To		Au (ppb)	Remarks
		605-03-01	240	275	99	
		02	275	293	8	
		03	293	298	95	
		04	298	318	25	
		05	318	334	5	
		06	334	372.6	14	
		07	372.6	380	7	
		08	388.5	390.2	21	
			408	411.5		
		09	380	408	5	less former 1
		605-03-10	411.5	413	161	
		11	413	438	173	
		12	438	468	228	
		13	468	487	198	
		14	487	526	1	
		15	526	611	94	
		16	611	636	37	
		17	636	647	3	
		18	647	676	84	
		19	676	701	187	
		605-03-20	701	716	164	
		21	716	733	13	
		22	763	766	633	hematite-rich
		23	733	770	243	less former 1
		24	770	776	10	
		25	776	787	5	
		26	787	796	8	
		27	796	805	74	
		28	805	827	77	
		29	827	852.5	105	
		605-03-30	852.5	860.5	410	hematized
		31	860.5	955	104	less v. qtz.
		32	860.5	955	49	only v. qtz.
		33	955	1013	2	only v. qtz.

AU GEOCHEMISTRY

Diamond Drill Hole no: 605-03

Township: GARRISON

Log Summary

Geochemistry Sample

Location (m) From To		Rock type	Sample no.	Location (ft.) From To		Au (ppb)	Remarks
			605-03-34	955	957.5	249	less v. qtz.
			35	957.5	1013	144	less v. qtz.
			36	1013	1021	15	
			37	1021	1027	43	
			38	1027	1043.5	3	
			39	1043.5	1063	4	
			605-03-40	1063	1066.5	302	2-4% Py
			41	1066.5	1101	113	
			42	1101	1119	191	
			43	1119	1204	32	
			44	1204	1232	17	less red.
			45	1204	1232	70	only red
			46	1238	1241.5	11	
			47	1232	1249	171	less former l
			48	1249	1272	165	
			49	1272	1323	328	Py-bearing
			605-03-50	1323	1394	6	
			51	1400	1402	275	cherty, pinkish
				1406	1413		
				1418	1421		
			52	1394	1425	49	less former l
			53	1452	1456	77	
			54	1425	1458	44	less former l
			55	1458	1478	25	only v. qtz.
			56	1458	1478	46	less v. qtz.
			57	1478	1506	6	
			58	1506	1554	4	only red
			59	1506	1554	1	
			605-03-60	1554	1600	7	only red
			61	1554	1600	3	
			62	1600	1620	92	only red
			63	1600	1620	7	
			64	1620	1642	30	only red
			65	1620	1642	3	

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HOLE NO: 605-03

PAGE: 1 of 26

Drilled by: BRADLEY BROS. LIMITED
 Started: 84 07 05
 Ended: 84 07 19

Property: GARRISON BLOCK; PN-605
 Township: of GARRISON; CLAIM# 42915
 Logged by: J. ANDRÉ CARRIER

Latitude: 1+005
 Azimuth: 150° magnetic
 Élévation: ?

Longitude: 68+00E
 Dip: -60°(collar),*
 Length: 1642 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
0	50	NW casing								
0	246	AW casing								
246	1642	AQ wireline core (excellent to good core recovery, good to poor R.Q.D.) laid into 58 boxes.								
0	~240	<u>OVERBURDEN</u> 0-50: gravel, cobbles and boulders 50-217: sand 217-240: gravel and small boulders								
~240	274.5	<u>FELDSPAR PORPHYRY</u> Pale buff to reddish; massive; 30% feldspar phenocrysts of 1-2 mm; altered (albitized, hematized, carbonatized). 5% milky quartz (with some albite) stringers (263.4-265.5): quartz veinlet Minor fine-grained Py. 07098: 4" quartz veinlet 07099: 70% quartz 07100: two 1/2" quartz stringers 07101: 1" quartz stringer; minor fine-grained Py								
			07098	246.0	251.0	5.0	Tr.			
			07099	263.0	266.0	3.0	Tr.			
			07100	266.0	271.0	5.0	0.01			
			07101	271.0	274.5	3.5	0.01			

Falconbridge Ltd.

HOLE NO: 605-03

PAGE: 2 of 26

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
274.5	310.1	<u>CHLORITE SCHIST</u> Gray to black; 20-30% cm. to mm. white laminations (often contorted, dragfolded; mostly quartz, carbonates, some albite, no calcite). Schistosity: 40°/A (282'), 60° (292'), 30° (302'), 50° (313'). More massive and homogeneous 314 to 317. Magnetic 299-310. (274.5-277): light grey sericitic tuff with fine quartz stockwork. (278.5-282): 50% tuff admixture (292-293.6): 30% tuff admixture (293.6-297.5): red felsite, 10% chlorite admixture at the top. (305.0-312.7): 35% admixture, brecciated								
		07102: one cm. Py-bearing lamination, 25% quartz-carbonates	07102	274.5	277.0	2.5	Tr.			
		07103: some quartz segregations	07103	277.0	282.0	5.0	0.005			
		07104: ~1% fine-grained Py; 5-10% quartz stringers; hematized	07104	293.6	297.5	3.9	0.005			
		07105: minor Py; 30% quartz-carbonates; contorted laminations	07105	297.5	302.5	5.0	Tr.			
		07106: minor Py; 30% quartz-carbonates; contorted laminations	07106	302.5	305.0	2.5	Tr.			
		07107: minor Py; brecciated	07107	305.0	310.0	5.0	Tr.			
		07108: minor Py, well brecciated; 15% quartz-carbonates stockwork	07108	310.0	312.7	2.7	Tr.			

Falconbridge Ltd.

HOLE NO: 605-03

PAGE: 3 of 26

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
318.1	334.3	07109: 1/4% Py; brecciated and schistose at both ends. <u>ANDESITE</u> Greenish grey, fine-grained; very fine-grained at both contacts (can be a DYKE); homogeneous, massive. 1-2% calcite-quartz-some epidote mm. stringers Rare traces of Py and Cp.	07109	312.7	318.1	5.4	Tr.			
334.3	407.7	07110: control; proximity of breccia <u>CHLORITE SCHIST</u> Light to medium greenish grey to 372; dark blackish grey (and magnetic) below 380; 15-30% quartz-carbonates mm. to cm. white laminations. Schistose & contorted, dragfolded also (60° to 35°/A average). Dragfold axis 40°/A (350'), 75° (368'), 40° (391'). Somewhat gradual lower contact (a little altered). (334.3-335.0): FAULT BRECCIA mm. to cm. fragments; 1" fault gouge coating both contacts; ~50°/A schistosity (somewhat contorted). (335.0-338.0): quartz vein 95% greyish white quartz, fractured and sutured. No Py to speak of.	07110	328.0	333.0	5.0	Tr.			

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HOLE NO: 605-03

PAGE: 4 of 26

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
(334.3	407.7)	(357.2-358.9): quartz segregations 30% chlorite stripe in white quartz; folded contacts 30-40°C/A. (372.6-380.0, 388.3-390.2, 395.0-396.2): LAM- PROPHYRES Iron grey with reddish tinge; relatively homogeneous, foliated to a little schistose; fine to medium grained mafic, occasional wall-rock fragments; slightly magnetic; no calcite; 35-55°C/A contacts. 1-3% mm. quartz-carbonate stringers								
		07111: 30% fault breccia, 70% very fine-grained andesite.	07111	333.0	335.0	2.0	Tr.			
		07112: quartz vein	07112	335.0	338.0	3.0	Tr.			
		07113: control of light colored chlorite schist	07113	338.0	342.0	4.0	Tr.			
		07114: control; 2" quartz veinlet	07114	342.0	347.0	5.0	Tr.			
		07115: control.	07115	347.0	352.0	5.0	Tr.			
		07116: control; couple of quartz veinlets	07116	352.0	357.0	5.0	Tr.			
		07117: 70% quartz	07117	357.0	359.0	2.0	0.005			
		07118: control	07118	359.0	364.0	5.0	Tr.			
		07119: control	07119	364.0	369.0	5.0	Tr.			
		07120: control; 2 quartz-carbonate veinlets	07120	369.0	372.6	3.6	Tr.			
		07121: control lamprophyre	07121	372.6	377.6	5.0	Tr.			
		07122: control lamprophyre	07122	377.6	380.0	2.4	Tr.			

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HOLE NO: 605-03

PAGE: 5 of 26

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		07123: control, magnetic chlorite schist	07123	380.0	385.0	5.0	Tr.			
		07124: control, magnetic chlorite schist	07124	402.7	407.7	5.0	0.005			
407.7	411.5	<u>LAMPROPHYRE</u> similar to 372.6-380.0 but lighter color and finer-grained.								
		07125: control	07125	407.7	411.5	3.8	0.005			
411.5	413.3	<u>FELSITE</u> brick greyish red, massive, sutured fractures; 40°C/A upper contact, ~50° contorted lower contact.								
		07126: <1% fine-grained Py, some quartz stringers	07126	411.5	413.3	1.8	0.005			
412	1323	<u>ALTERATION ZONE</u> Complex assemblage of the following rock types, all affected by strong to medium bleaching (present in the stated proportion): SERICITE-QUARTZ-CARBONATE ROCK (40%) GREEN MICA SCHIST (40%) REDDISH SILICEOUS ROCK (10%) CHLORITIC SCHIST (10%) The bleaching fades away over the last 6 feet.								

Falconbridge Ltd.

HOLE NO: 605-03

PAGE: 6 of 26

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
(413.3	438.5)	<u>SERICITE-QUARTZ-CARBONATE ROCK</u> Yellowish olive green, fine-grained; 20% pink to reddish portions; gradual change from chlorite schist at upper contact. Might have been a lapilli tuff. 40°C/A lower contact; foliated to schistose averaging 50°C/A. Abundant quartz (patches & stringers) stockwork in places. Minor very fine-grained Py.								
		07127: minor fine-grained Py; 25% reddish portions	07127	413.3	418.3	5.0	Tr.			
		07128: < 1/4% fine-grained Py	07128	418.3	423.3	5.0	Tr.			
		07129: 1/4% fine-grained Py; yellowish green tuff; 5% quartz	07129	423.3	426.0	2.7	0.01			
		07130: 1/3 reddish, 1/3 yellowish green, 1/3 quartz	07130	426.0	431.7	5.7	0.01			
		07131: 1/4% fine-grained Py, 10% quartz	07131	431.7	436.7	5.0	0.01			
		07132: 1/4% fine-grained Py, 10% quartz	07132	436.7	438.5	1.8	0.01			
(438.5	468.4)	<u>REDDISH SILICEOUS ROCK</u> Salmon to greyish pink (color probably due to hematization), occasional greenish portion developing. Not much bedding visible if any. 5-10% cm. to mm. quartz stringers stockwork (frequent intimate mixing of quartz with the rock).								

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HOLE NO: 605-03

PAGE: 7 of 26

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	A _v oz./ton			
		at 452, 454, 456: 4" quartz veinlets. Less than 1% fine-grained disseminated Py.								
		07133: minor fine-grained Py; hematized	07133	438.5	443.5	5.0	0.005			
		07134: minor fine-grained Py; hematized	07134	443.5	448.5	5.0	0.02			
		07135: minor fine-grained Py; hematized; 10% quartz veinlets	07135	448.5	453.5	5.0	0.01			
		07136: minor fine-grained Py; hematized; 20% quartz veinlets	07136	453.5	458.5	5.0	0.005			
		07137: minor fine-grained Py; hematized	07137	458.5	463.5	5.0	0.005			
		07138: minor fine-grained Py; hematized; 5% quartz veinlets	07138	463.5	468.4	4.9	0.01			
(468.4	487)	<u>GREEN MICA SCHIST</u> Emerald green (fuchsite, rooseolite?); pink around 472-473. Consisting of a sericite- quartz-carbonate schist (possibly former lapilli tuff!). Gradual change at both contacts. 474.4-476.0: white quartz vein. Only trace to minor fine-grained Py								
		07139: 10% quartz, one 1/2" quartz veinlet	07139	468.4	471.3	2.9	0.005			
		07140: 10% quartz-carbonate veinlets; 60% reddish siliceous.	07140	471.3	474.4	3.1	0.01			
		07141: 95% white quartz.	07141	474.4	477.0	2.6	0.02			

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HOLE NO: 605-03

PAGE: 8 of 26

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
(407	526.0)	07142: 5% quartz-carbonates	07142	477.0	482.0	5.0	0.01			
		07143: 10% quartz-carbonates	07143	482.0	487.0	5.0	0.005			
		<u>CHLORITIC SCHIST</u>								
		Blackish grey; 8-15% whitish quartz-carbonates laminations and spots (lighter colored and up to 50% white to greenish laminations near both contacts. Magnetic at several places. Schistosity: 45-90°/A, averaging 60°/A. Three cm. to dm. mm-laminated, fine-grained, reddish (tuff?) bands between 489 & 490. Bedding: 65°/A. At 510, some reddish lapilli or pebbles. Occasional minor Py locally.								
		07144: control; slight greenish & 8% red laminations	07144	487.0	492.0	5.0	0.005			
		07145: control	07145	492.0	497.0	5.0	0.005			
		07146: control	07146	517.0	522.0	5.0	Tr.			
		07147: control; grey to greenish rock.	07147	522.0	526.0	4.0	0.02			
(526.0	610.7)	<u>SERICITE-QUARTZ-CARBONATE ROCK</u>								
		Yellowish beige, some greenish near the center, abundant greenish in last third. The first 10 feet pass from salmon to pinkish (hematized). The first third holds more massive portions;								

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HOLE NO: 605-03

PAGE: 9 of 26

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	A _v oz./ton			
		from 583 to 604, 25% emerald green mica interbeds. Average schistosity 45°-60°/A. Lower contact 25°/A. Only minor Py usually.								
		07148: control, three green lapilli blocks fractured, hematized	07148	526.0	531.0	5.0	0.01			
		07149: control, hematized	07149	531.0	536.0	5.0	0.005			
		07150: <1/2% Py, 5% quartz stringers	07150	536.0	541.0	5.0	0.01			
		07151: <1/4% Py, 3% quartz stringers	07151	541.0	546.0	5.0	Tr.			
		07152: ~1/4% Py, 8% quartz stringers	07152	546.0	551.0	5.0	0.01			
		07153: Tr. Py, control (yellowish green)	07153	576.0	581.0	5.0	0.005			
		07154: Tr. Py, control (40% green mica schist)	07154	596.0	601.0	5.0	Tr.			
(610.7	636.0)	<u>GREEN MICA SCHIST</u> Emerald to greyish green variegated, schistose and contorted; 20% pale buff "felicitized relicts" (concentrated near 624). 5-10% quartz stringers & veinlet (some albite). Only traces of pyrite.								
		07155: control	07155	627.0	632.0	5.0	Tr.			
		07156: control	07156	632.0	636.0	4.0	0.005			
(636.0	647)	<u>CHLORITIC SCHIST</u> Dark grey, reddish tinge at several places. 5-10% reddish fragments and streaks; 10-20%								

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HOLE NO: 605-03

PAGE: 10 of 26

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU OZ./TON			
		white streaks (carbonates & quartz & albite; no calcite); gradual change at both contacts. Non magnetic. Maybe former basic lapilli tuff? Schistose (and contorted); ~30°-60°C/A; locally brecciated. (639-639.7): brick red (hematized) syenite dyke or "felsitized sediments". 1/4 to 1/2% Py disseminated and in local aggregates. 07157: < 1/2% Py; 10% brick red portions 07158: < 1/4% Py.								
(647	676)	<u>GREEN MICA SCHIST</u> (similar 610.7-636.0) Gradual change near both contacts Minor to tr Py (fine-grained)								
		07159: control	07157	636.0	641.0	5.0	Tr.			
		07160: control	07158	641.0	647.0	6.0	Tr.			
		07161: control; 1/2% Py over 6" beige band.								
(676	701.2)	<u>SERICITE-QUARTZ-CARBONATE ROCK</u> Grayish to yellowish to greenish beige; some emerald green & some dark grey chloritic portions. Schistosity average ~30°C/A. 5-10% quartz stringers and patches (one								
			07159	647.0	652.0	5.0	Tr.			
			07160	652.0	657.0	5.0	Tr.			
			07161	671.0	676.0	5.0	Tr.			

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HOLE NO: 605-03 PAGE: 11 of 26

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		6" veinlet at lower contact). Up to 1% fine-grained Py, disseminated mostly in grayish beige portions.								
		07162: 1/2% Py (very fine-grained)	07162	676.0	681.0	5.0	0.02			
		07163: 1/4% Py (very fine-grained)	07163	681.0	686.0	5.0	0.02			
		07164: 1% Py (very fine-grained), 15% quartz- carbonates	07164	686.0	691.0	5.0	0.01			
		07165: <1% Py (very fine-grained)	07165	691.0	696.0	5.0	0.005			
		07166: 1/2% Py (very fine-grained), 20% quartz-carbonates	07166	696.0	701.2	5.2	0.005			
(701.2	716.4)	<u>GREEN MICA SCHIST</u> 10% beige; 35% quartz-silite-carbonates stringers & patches & streaks; somewhat chloritic at the base. Approximate schistosity: 0°-45° CA. 3" quartz-carbonates veinlet at 706.								
		07167: minor Py; control; 9" qtz-carbonates	07167	701.2	706.2	5.0	0.005			
		07168: <1% fine-grained Py disseminated in laminations	07168	706.2	711.2	5.0	0.01			
		07169: <1/2% fine-grained Py disseminated in laminations	07169	711.2	716.4	5.2	Tr.			

Falconbridge Ltd.

HOLE NO: 605-03

PAGE: 12 of 26

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
(716.1	733.0)	<u>BRECCIA</u> 40% brick to salmon to pink "felicitized sediments" and fragments, mixed up with 60% dark grey chloritic schist. Former lapilli tuffs and breccia? Up to 1% Py (very fine-grained) in places								
		07170: < 1% Py (very fine-grained), 50% reddish	07170	716.4	721.4	5.0	Tr.			
		07171: ~1/4% Py (fine-grained), 20% reddish	07171	721.4	726.4	5.0	0.005			
		07172: minor Py, 50% reddish beige	07172	726.4	731.4	5.0	Tr.			
		07173: minor Py, 40% pinkish beige.	07173	731.4	733.0	2.6	Tr.			
(733.0	769.5)	<u>GREEN MICA SCHIST</u> ~25% beige lapilli and laminae and interbeds. Conglomeratic sandstone appearance. Schistosity: 0°-60° C/A (average 45°). Very fine to fine-grained Py (minor except locally). At 757.5: 4" of 25% Py (1 mm grains), in fact 1" coating one wall of a quartz stringer. (763.3-765.8): band of iron formation [6" hematite-rich schistose layer on 14" beige and some green metatuffe (holding on its lower half 20% Py in 1-2 mm cubes) resting on 9" hematite-rich schistose layer]								

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HOLE NO: 605-03 PAGE: 13 of 26

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton	REJECT	AVERAGE
		07174: minor Py, control	07174	733.0	738.0	5.0	Tr.		
		07175: minor Py, control	07175	752.2	757.2	5.0	0.005		
		07176: 10% Py, 80% quartz	07176	757.2	758.9	1.7	0.165	0.180	0.1725
		07177: Trace Py, control	07177	758.9	763.3	4.4	Tr.		
		07178: 4% Py, 15% hematite-rich layers	07178	763.3	765.8	2.5	0.02		
		07179: minor Py	07179	765.8	769.5	3.7	Tr.		
(769.5	776.3)	<u>CHLORITIC SCHIST</u> mixed up with 15% "felsitized sediments". At 772: 6" purplish brownish grey, fine-grained dyke (or massive tuff).							
		07180: trace Py; 1/3 pinkish beige	07180	769.5	772.3	2.8	0.005		
		07181: minor Py; 5% quartz-carbonates; 30% grey dyke (or tuff)	07181	772.3	777.3	5.0	Tr.		
(776.3	787)	<u>FELSITE</u> Blackish to brick red; fine-grained porphyritic; chloritized when darker; could be an hematized tuff or "felsitized sediment"; mixed up with reddish laminations below 786.5. (785.7-786.5): brecciated, with quartz stringers Minor fine-grained Py, disseminated.							
		07071: Trace Py, brecciated, hematized	07071	777.3	782.5	5.2	Tr.		
		07072: control	07072	782.5	785.7	3.2	Tr.		

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HOLE NO: 605-03 PAGE: 14 of 26

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
(787	795.7)	07073: brecciated, hematized <u>CHLORITIC SCHIST</u> Dark reddish grey to greenish grey; 35°C/A schistose; drag fold axis ~20°C/A at 791. At 788: medium grained diorite block, foliated. (789-793): 20% purplish red laminations	07073	785.7	791.0	5.3	Tr.			
(795.7	805)	<u>GREEN MICA SCHIST</u> Greyish green to yellowish green mixed up with beige (sometimes reddish) sericitic interbeds (more abundant at depth); gradual contacts. Schistosity: 30°C/A at 796 & 804. Average of 20% quartz-carbonates laminations, broken up and stretched in the dragfolding process (more abundant in green portions). Minor fine-grained Py.								
(805	827)	<u>SERICITE-QUARTZ-CARBONATE ROCK</u> Beige, generally rather massive, with albite layers; dragfolded; "foliated sediments?"; buff to pink pebbles 07074: minor Py, quartz veinlets, control.	07074	806.0	811.0	5.0	Tr.			

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HOLE NO: 605-03

PAGE: 15 of 26

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
(827	852.5)	<u>GREEN MICA SCHIST</u> Emerald green; 10°-40° C/A; dragfolded. Quartz veinlets. Minor Py in streaks all through. 07075: 1/4% Py; 10% quartz-carbonate veinlets. 07076: trace Py; control.	07075 07076	836.0 847.3	841.0 852.3	5.0 5.0	0.02 0.005			
(852.5	860.5)	<u>FELSITE</u> Salmon to pink; brecciated, hematized; local incipient green mica; 2% chlorite streaks. Minor fine-grained pyrite. 07077: minor Py; hematized 07078: trace of Py; hematized a little; control	07077 07078	852.3 857.3	857.3 861.0	5.0 3.7	Tr. 0.02			
(860.5	1013.5)	<u>SERICITE-QUARTZ-CARBONATE ROCK</u> Beige "felsitized sediments" and 5-10% white quartz veinlets and patches (intimate mixture of both rocks). Foliation (bedding) 10°-50° C/A. Subparallel to wire axis at 882, 907 to 910, 916 to 930. Minor Py here and there. (955.0-957.5): greenish beige altered tuff; thin flaky green crystals, very fine lami- nations at both contacts (0 to 20° C/A). Traces of gypsum(?). Minor fine grained pyrite.								

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HOLE NO: 605-03

PAGE: 16 of 26

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		At 996.3, between two quartz veins: 4" serpentine showing one very glassy fault mirror making 40°C/A and bearing slickensides making ~55°C/A.								
		07079: traces of Py	07079	861.0	866.0	5.0	0.02			
		07080: control	07080	950.0	955.0	5.0	0.005			
		07081: minor fine-grained Py; green mica	07081	955.0	957.7	2.7	0.02			
		07082: control	07082	957.7	962.7	5.0	0.005			
		07083: < 1/4% Py (disseminated); control	07083	974.0	979.0	5.0	Tr.			
		07084: < 1/4% Py (disseminated); control	07084	979.0	984.0	5.0	Tr.			
		07085: > 1/4% Py (fine-grained, disseminated)	07085	984.0	989.0	5.0	0.02			
		07086: control; traces of Py	07086	989.0	994.0	5.0	Tr.			
		07087: quartz vein	07087	994.0	996.1	2.1	0.005			
		07088: control; traces of Py	07088	996.1	1001.1	5.0	0.01			
(1013.5	1021.0)	<u>GREEN MICA SCHIST</u> Grading to chlorite carbonate schist at depth.								
		07089: control & a little green mica	07089	1019.0	1024.0	5.0	Tr.			
(1021.0	1066.5)	<u>CHLORITE SCHIST (& MIXTURE)</u> 30-60% quartz-carbonate layers and stretched nodules. (1024.0-1025.2): salmon feldite horizon (1027.0-1043.5): darker massive portion with 5% mm. stringers (former lava flow?)								

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		(1043.5-1063): chlorite schist with beige nodules & patches, getting some green mica at depth (former intraformational conglomerate, pebble greywacke or lapilli tuff?)								
		(1063-1066.5): 2-4% Py in pinkish beige (somewhat hematized) tuff horizon.								
		07090: felsite	07090	1024.0	1025.2	1.2	0.03			
		07091: control	07091	1025.2	1027.0	1.8	Tr.			
		07092: 1/4% Py (disseminated)	07092	1027.0	1032.0	5.0	Tr.			
		07093: traces of Py	07093	1032.0	1037.0	5.0	Tr.			
		07094: 1/4% Py; brecciated rock in places	07094	1037.0	1042.0	5.0	Tr.			
		07095: control	07095	1042.0	1047.0	5.0	Tr.			
		07096: control	07096	1057.0	1062.0	5.0	Tr.			
		07097: 1-2% Py (disseminated) in various contorted layers.	07097	1062.0	1067.0	5.0	0.02			
(1066.5	1101)	<u>GREEN MICA SCHIST</u> Bright emerald green to grayish green; occasional beige fragment or deformed lamination. Schistosity & bedding: ~25°C/A at 1070, 40°C/A at 1085, 15-20°C/A at 1100. Dragfold axis ~30°C/A. Upper contact rather pale green to beige. Up to 1% Py (disseminated) locally.								

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HOLE NO: 605-03

PAGE: 18 of 26

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
		(1073-1074): brick red hematized								
		(1075-1080): 50% white quartz (+some albite) veinlets and stringers. Veinlets also at 1089 & 1093.								
		(1093.5-1097): greenish buff to reddish								
		07182: < 1/4% Py; 5% quartz-carbonate lamina- tions	07182	1067.0	1072.0	5.0	Tr.			
		07183: 1/4% Py (in green near quartz veinlet)	07183	1072.0	1075.0	3.0	0.005			
		07184: 1/4% Py (in schist); 50% white quartz veinlets	07184	1075.0	1080.0	5.0	0.005			
		07185: minor Py	07185	1080.0	1085.0	5.0	0.005			
		07186: minor Py	07186	1085.0	1088.5	3.5	Tr.			
		07187: < 1/4% Py; 15-20% quartz stringers & veinlets	07187	1088.5	1093.5	5.0	0.02			
		07188: 1% Py (1mm-grained); hematized	07188	1093.5	1097.2	3.7	0.02			
		07189: minor to traces of Py	07189	1097.	1101.0	3.8	0.01			
(1101	1119)	<u>SERICITE-QUARTZ-CARBONATE ROCK</u> Greyish to greenish beige (some reddish in upper third). Some spots of emerald green mica. Schistose locally: 15-40°C/A. Minor Py on average.								
		07190: control; 1/4% Py (fine-grained, dissemi- nated).	07190	1101.0	1106.0	5.0	0.01			
		07191: control; minor Py	07191	1106.0	1111.0	5.0	0.005			

Falconbridge Ltd.

HOLE NO: 605-03

PAGE: 19 of 26

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
(1119	1232.0)	<u>GREEN MICA SCHIST</u> <p>To 1204: emerald to greyish green; 5% beige to pinkish buff portions and patches; contorted and drag folded; schistosity 0°-35°/A. 10-20% quartz streaks & patches, several quartz veinlets subparallel to core axis. Generally minor fine-grained Py, more in darker greyish portions.</p> <p>Below 1204: brighter emerald green; 20% brick to salmon red, greyish buff hematized interbeds of "felsitized sediments" holding fair Py. The emerald green holds minor to trace Py. Bedding average 30°/A. 15-30% white, relatively soft, mineral stockwork (carbonates or altered albite, not calcite; getting to form mm. crystals constituting part of the rock).</p> <p>07192: trace of Py; 25% quartz-carbonates in parallel stringers</p> <p>07193: minor Py in 25% pinkish buff</p> <p>07194: < 1/4% Py (in grey portions), 5% quartz</p> <p>07195: minor Py (very fine-grained), 2% quartz</p> <p>07196: < 1/4% Py (in grey portions), 3% quartz stringer</p> <p>07197: minor Py (very fine-grained, in grey)</p> <p>07198: 1/2% Py (very fine-grained, in grey patches)</p> <p>07199: minor Py (in grey); 5% quartz</p> <p>07200: minor Py</p>								
			07192	1145.0	1150.0	5.0	0.01			
			07193	1150.0	1155.0	5.0	Tr.			
			07194	1155.0	1160.0	5.0	0.005			
			07195	1160.0	1165.0	5.0	Tr.			
			07196	1165.0	1170.0	5.0	0.01			
			07197	1170.0	1175.0	5.0	Tr.			
			07198	1175.0	1180.0	5.0	Tr.			
			07199	1180.0	1185.0	5.0	0.005			
			07200	1185.0	1190.0	5.0	0.02			

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HOLE NO: 605-03

PAGE: 20 of 26

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		07201: <1/4% Py (in grey & beige); 5% quartz	07201	1190.0	1195.0	5.0	0.01			
		07202: minor Py in beige	07202	1195.0	1200.0	5.0	0.005			
		07203: minor to traces of Py	07203	1200.0	1204.4	4.4	Tr.			
		07204: minor to traces of Py; 20% brick to salmon red	07204	1204.4	1208.7	4.3	Tr.			
		07205: ~1% Py (contained into 50% brick to salmon red portions)	07205	1208.7	1213.7	5.0	Nil			
		07206: traces of Py; 4% quartz stockwork	07206	1213.7	1218.7	5.0	Nil			
		07207: traces of Py; 8% quartz stockwork	07207	1218.7	1222.5	3.8	Nil			
		07208: 2% Py (fine to medium-grained) in pinkish buff; 5% white stringers	07208	1222.5	1223.4	0.9	0.005			
		07209: traces of Py; minor pink buff; 10% white stringers	07209	1223.4	1227.0	3.6	Tr.			
		07210: 5% greyish-salmon with 1% Py, 10% quartz stringers.	07210	1227.0	1232.0	5.0	Tr.			
(1232.0	1248.9)	<u>REDDISH SILICEOUS ROCK</u> Brick red to salmon beige (1238.3-1241.5): emerald-green mica schist (rather massive; 40°/A average foliation as well as lower contact. 8% quartz-carbonates stringers. Above 1238.3, the rock holds 40% quartz veinlets and stringers. From 1243.5 to 1248: 12 slickensided mirrors or joints (almost parallel slip directions: 85°/A on 45°/A plane at 1243.5, 80°/A on 30°/A								

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HOLE NO: 605-03

PAGE: 21 of 26

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		plane at 1245.0, 75°/A on 20°/A planes at 1245.5 and 1247.4.								
		07211: 3% Py (very fine to 1 mm-grained), 30% quartz	07211	1232.0	1237.5	5.5	0.01			
		07212: minor Py; 30% quartz (+ some carbonates)	07212	1237.5	1241.5	4.0	0.02			
		07213: <1% Py (very fine-grained), <5% quartz stringers	07213	1241.5	1246.0	3.5	0.005			
		07214: minor Py (fine-grained), <5% quartz stringers.	07214	1246.0	1248.9	2.9	Tr.			
(1248.9	1272.0)	<u>GREEN MICA SCHIST</u> Bright emerald to yellowish green; 25% beige to reddish interlayers. 40°/A bedding measured at three different places. 5-30% quartz-carbonates laminations, patches and stringers; several stringers are sub-parallel to core axis.								
		07215: traces of Py; 8% quartz-carbonates	07215	1248.9	1255.1	6.2	Tr.			
		07216: 2-3% Py (fine to medium-grained; in 90% beige); <10% quartz stringer.	07216	1255.1	1256.1	1.0	0.01			
		07217: traces of Py; 10% quartz-carbonates (plus 20% quartz in one subparallel stringer)	07217	1256.1	1258.6	2.5	Tr.			
		07218: 2-3% Py (very fine to 1 mm-grained; in yellowish beige)	07218	1258.1	1260.5	1.9	Tr.			
		07219: minor Py; 20% yellowish beige, 8% quartz-carbonates (plus 10% quartz in one subparallel to core axis stringer)	07219	1260.5	1265.4	4.9	Tr.			

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HOLE NO: 605-03

PAGE: 22 of 26

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		07220: 1-2% Py (fine-grained); greyish to reddish brown, 20% quartz	07220	1265.4	1266.7	1.3	Tr.			
		07221: minor Py; 20% reddish brown, 25% carbonates-quartz	07221	1266.7	1271.9	5.2	Tr.			
(1272.0	1322.7)	<u>SERICITE-QUARTZ-CARBONATE ROCK</u> Buff to greyish beige (with various tinges of reddish, yellowish, greenish, etc.); generally fine-grained. Non magnetic. Massive to a little schistose; laminations & possibly graded bedding visible: 35°C/A at 1307 & 1311, 30°C/A at 1316. Beige looks rather massive; buff to reddish shows sutured fractures; greenish is somewhat schistose; dark grey is schistose. Alteration (bleaching) is fading away over the last six feet. Relatively well mineralized in pyrite.								
		07222: 1/4% Py; grey to brown beige	07222	1271.9	1276.9	5.0	Tr.			
		07223: 1/2% Py (in lighter beige)	07223	1276.9	1281.9	5.0	Tr.			
		07224: 1/2-1% Py (in brownish & yellowish greenish beige)	07224	1281.9	1286.9	5.0	0.005			
		07225: 1/2% Py (in greyish beige)	07225	1286.9	1291.9	5.0	0.02			
		07226: 1/4-1/2% Py (in greenish beige)	07226	1291.9	1296.9	5.0	0.005			
		07227: 1/2% Py (mostly fine-grained in buff,	07227	1296.9	1301.9	5.0	0.01			

Falconbridge Ltd.

HOLE NO: 605-03

PAGE: 23 of 26

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		<i>some in greenish)</i>								
		07228: 1/2-1% Py (mostly fine-grained in reddish, fair in grey, less in green)	07228	1301.9	1306.9	5.0	0.03			
		07257: 2-3% Py (in yellowish olive, fine to mm. grained); 3% quartz-calcite	07257	1306.9	1311.9	5.0	0.023			
		07258: 1-2% Py; 75% greenish beige, 20% salmon, 5% quartz-calcite	07258	1311.9	1316.9	5.0	0.003			
		07259: minor Py (in grey); ~5% greenish beige altered mm. platy mafics	07259	1316.9	1322.7	5.8	0.002			
1322.7	1394.4	<u>ANDESITE</u> Medium greenish grey, fine-grained; homogeneous, massive, relatively fresh-looking; epidotized feldspars, chloritized mafics. Somewhat magnetic over the last 10 feet. Chilled contacts (30°C/A upper; lower doubtful 55°C/A). A little hairline to millimetric calcite stringers here and there.								
		07260: control; minor Py in cracks; aphanitic to fine-grained	07260	1322.7	1327.7	5.0	Tr.			
1394.4	1478	<u>METASEDIMENTS (& TUFFS)</u> (little altered; relatively not bleached.) Medium grey (tinge of brown) to blackish; chloritized; here and there suggestion of soft sediments deformations.								

Falconbridge Ltd.

HOLE NO: 605-03

PAGE: 24 of 26

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		<p>Bedding: 20° C/A at 1397, ~45° at 1405, 35° at 1415. Banding: ~30° C/A at 1419, 25° at 1439. Laminated: 25° C/A at 1426, 40° at 1450. 1% fine-grained Py frequent (disseminated along bedding, occasionally remobilized along fractures). (1398.5-1399.0): feldspar porphyry with medium to coarse-grained subhedral phenocr. (1400-1402, 1406-1413, 1418.0-1421.5, 1452.0-1456.2): grey cherty layers, somewhat fractured, with incipient pinkish color (even reddish and looking like subhedral phenocr. porphyry at 1452-1456), which can be fresher equivalents of the reddish siliceous rock. (1420.0-1420.5): coarsely crystalline carbonate veinlet, containing 5-15% pea-size subangular pieces of chert, more abundant in upper half.</p>								
		07261: 1/2% Py	07261	1394.4	1399.4	5.0	Tr.			
		07262: 1% Py	07262	1399.4	1404.4	5.0	Tr.			
		07263: 1% Py	07263	1404.4	1409.4	5.0	0.006			
		07264: more than 1% Py	07264	1409.4	1414.4	5.0	0.003			
		07265: 1/4% Py	07265	1414.4	1417.5	3.1	Tr.			
		07266: more than 1% Py	07266	1417.5	1421.5	4.0	0.022			

Falconbridge Ltd.

HOLE NO: 605-03

PAGE: 25 of 26

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./TON			
		07267: 1/2% Py	07267	1421.5	1426.5	5.0	0.010			
		07268: 1/4% Py	07268	1426.5	1431.5	5.0	0.002			
		07269: ~1/4% Py	07269	1431.5	1436.5	5.0	Tr.			
		07270: minor Py	07270	1436.5	1441.5	5.0	Tr.			
		07271: 1/4% Py; some pinkish alteration	07271	1441.5	1446.5	5.0	Tr.			
		07272: ~1/4% Py	07272	1446.5	1452.0	5.5	Tr.			
		07273: > 1/4% Py (mostly at lower contact); a- bundant pinkish porphyry-like.	07273	1452.0	1456.5	4.5	0.002			
		07274: traces of Py; 60% white quartz veinlets.	07274	1456.5	1462.0	5.5	0.002			
		07275: minor Py; 20% white quartz veinlets. (N.B.: core misplaced below 1458).	07275	1462.0	1467.0	5.0	0.004			
1478	1642	<u>CARBONATE CHLORITE SCHIST</u> Sediments recognizable in first 20 feet; gradual change to dark chlorite schist (with stockwork of white carbonate stringers). Getting talcose from 1600 to 1620; also 2-5% pinkish carbonate healing in chlorite schist from 1600 to the end of the hole. 20% reddish portions (chert and/or por- phyry). Schistosity & several stringers: ~30°-60°/A.								
		07276: traces of Py; red hematized (fractured porphyry).	07276	1507.0	1512.0	5.0	Tr.			
		07277: minor Py; reddish	07277	1553.0	1555.0	2.0	Tr.			
		07278: minor Py; chlorite schist	07278	1555.0	1559.0	4.0	Tr.			
		07279: minor Py; reddish	07279	1559.0	1562.3	3.3	Tr.			

Falconbridge Ltd.

HOLE NO: 605-03

PAGE: 26 of 26

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		07280: minor Py; chlorite schist	07280	1562.3	1566.2	3.9	Tr.			
		07281: minor Py; 50% red, 50% schist	07281	1566.2	1569.0	2.8	Tr.			
		07282: minor Py; chlorite schist, little white	07282	1569.0	1571.5	2.5	Tr.			
		07283: minor Py; chlorite schist, 15% white	07283	1571.5	1576.0	4.5	Tr.			
		07284: minor Py; 25% schist, 75% red	07284	1576.0	1580.0	4.0	Tr.			
		07285: minor Py; chlorite schist	07285	1580.0	1585.0	5.0	Tr.			
		07286: minor Py; chlorite schist	07286	1585.0	1589.5	4.5	Tr.			
		07287: minor Py; 40% red, 60% schist	07287	1589.5	1594.5	5.0	Tr.			
		07288: minor Py; 45% red, 55% schist	07288	1594.5	1599.5	5.0	Tr.			
		07289: ~1/4% Py (in red), sheared, 4.5' of core recovered; 50% red, 50% schist	07289	1599.5	1604.5	5.0	Tr.			
		07290: 15% red, 85% schist; sheared and car- bonate-healed	07290	1604.5	1609.5	5.0	Tr.			
		07291: minor Py; 35% grayish red, fine-grai- ned porphyry; 65% carbonate-chlorite schist.	07291	1637.0	1642.0	5.0	Tr.			
	1642	<u>END OF HOLE</u> Casing left in the hole, AW cap screwed on. Red painted wooden post, bearing aluminum identification tag, set into the ground next to the casing. * Etch tube dip determinations: -61.5°(300'), -59°(600'), -56.5°(900'), -58°(1200'), -52°(1500'). J. André Carrier 84 08 30								

AU GEOCHEMISTRY

Diamond Drill Hole no: 605-04

Township: GARRISON

Log Summary		Geochemistry Sample				
Location (m) From To		Sample no.	Location (ft.) From To		Au (ppb)	Remarks
			605-04-01	168		
		02	229.5	254.7	49	1% qtz. stringers
		03	254.7	390	4	
		04	390	435	5	
		05	435	500	5	
		06	500	570	4	
		07	570	615	4	
		08	615	670	8	
		09	670	693	7	
		605-04-10	693	710	7	
		11	710	795	10	
		12	795	815	3	
		13	815	882	4	
		14	882	895	2	
		15	895	940	12	
		16	940	980	5	
		17	980	992	7	
		18	992	1032	16	
		19	1032	1077	2	
		605-04-20	1077	1128	1	
		21	1128	1165	7	
		22	1165	1185	2	
		23	1185	1238	3	
		24	1238	1252	2	
		25	1252	1289	4	
		26	1289	1321	<1	
		27	1321	1340	1	
		28	1340	1360	<1	
		29	1360	1400	<1	
		605-04-30	1400	1450	<1	
		31	1450	1493	<1	v. qtz only
		32	1450	1470	<1	less v. qtz
		33	1470	1480	1	less v. qtz
		34	1480	1493	<1	less v. qtz

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HOLE NO: 605-04

PAGE: 1 of 10

Drilled by: BRADLEY BROS. LIMITED

Property: GARRISON BLOCK; PN-605

Latitude: 21+50 S

Longitude: 60+20 E

Started: 84 07 19

Township: of GARRISON; CLAIM # 42915

Azimuth: 155°

Dip: -58°(collar), *

Ended: 84 08 05

Logged by: J. ANDRÉ CARRIER

Élévation: ?

Length: 1621 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
0	165	NW casing								
0	172	AW casing								
168	1621	AQ wireline core (excellent to good recovery, good to poor R.Q.D.) laid into 64 boxes.								
0	168	<u>OVERBURDEN</u> 0-158: sand 158-168: gravel with boulders								
168	229.5	<u>FERRUGINOUS METASEDIMENTS</u> Medium to blackish grey; fine to very fine grained; sometimes a tinge of sparkling dust due to numerous tiny Py specks. Relatively very homogeneous appearance (except for varying darkness interbeds and patches). Possible bedding; ~25°/A at 169, 45° at 185. Blocky core at several places. Locally nitreous and hard to scratch (ex. at 168 and 205); the rock has the look of a hornfels. 1% hairline to mm. quartz stringers; sometimes carbonates with incipient hematization.								

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HOLE NO: 605-04 PAGE: 2 of 10

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		<i>Somewhat to fairly magnetic all through. Might average 1% Py in places.</i>								
		<i>0 7254: Control; ~ 1/2% Py, black & grey, slight hematization.</i>	07254	190.0	195.0	5.0	0.002			
229.5	254.7	<u>FELDSPAR PORPHYRY</u> <i>Salmon to greyish pink, greyish over ~3' from upper contact (50°C/A) and 5' from lower contact (50°C/A); 30-50% fine to medium grain feldspar phenocrysts. Non magnetic, not carbonated; slight me- tamorphism of country rock over 1" at both contacts. 1% quartz stringers (a little more at 248). Minor to traces of fine-grained Py.</i>								
		<i>07255: 2% quartz, tr Py, Control.</i>	07255	245.0	250.0	5.0	0.004			
254.7	1621	<u>FERRUGINOUS METASEDIMENTS</u> <i>(similar to 168 - 229.5) generally fine grained, Magnetic ferruginous metasediments (fine pyrite dust disseminations are frequent). Various shades of grey; lighter coloration often linked to alteration (carbonatization, silicification and hematization) development along small fractures,</i>								

Falconbridge Ltd.

HOLE NO: 605-04

PAGE: 3 of 10

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
		<p>especially true in the upper part of the inter-section.</p> <p>Reddish brownish black around 440, here and there from 500 to 570, from 615 to 640, etc. 1140-1145, a little from 1240 to 1252.</p> <p>Reddish grey 882-1025 (especially 980-992 & 1017-1022), 1077-1128. Pinkish 1478-1480.</p> <p>Relatively light greys and not so fine-grained: 795-815, 1252-1289.</p> <p>Lighter colors (with greenish tinge at several places): 1289-1621.</p> <p>The darker rock patches show complex shapes, might include micro-slumping, nodules, etc. Sometimes the darker portions are associated to bedding contacts.</p> <p>Bedding: ~30°/A (279'), 40°/A (314 & 321'), 45° (494'), ~30° (704 & 798'), ~35° (891'), 20°/A (928'), ~45° (951'), 30° (968'), ~30° (1008'), 50° (1111'), ~35° (1271'), ~30° (1283, 1300 & 1308'), 20°/A (1453'), ~20° (1515'), 30° (1524'), ~25°/A (1598.5')</p> <p>Half the rock is very hard (siliceous) from 520 to 670, here and there at greater depths, from 1340-1360 (with cherty look here and there).</p>								

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HOLE NO: 605-04

PAGE: 4 of 10

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
		<p>(1450-1621): quite siliceous; locally magnetic; ~20% quartz veinlets & segregations from 1450 to 1493; bluish grey cherty look at several places (more siliceous and locally brecciated at depth).</p> <p>Occasional chloritic shears.</p> <p>At 485.5': fault-mirror 28° C/A with slickensides 60° C/A. Others here and there at depth; at 1042.5': mirror 05° C/A with slickensides 60° C/A, and mirror 20° C/A with slickensides ~60° C/A.</p> <p>At 968': probable bedding 30° C/A, bleached sutured fractures 60-75° C/A (both planes making 80-90° between themselves).</p> <p>Locally blocky core (mostly 750-895, 1065-1070, 1147-1171). 3' of lost core between 1063 and 1077.</p> <p>The rock is somewhat to fairly magnetic all through (except 693-710); little magnetic 900-930; STRONGLY MAGNETIC 1360-1454.</p> <p>Calcite noted in several veinlets and narrow fractured portions (locally vuggy). Around 515, vuggy quartz-carbonate veinlets and half a foot of no core. May be locally sharnized (example at 613').</p>								

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HOLE NO: 605-04

PAGE: 5 of 10

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
		<p>Below 990', a little carbonates present everywhere (sometimes sharry appearance: mixed reddish brown, green and greys; possibly former limy horizons). 1196-1197: wuggy carbonates veinlet. More wuggy quartz and some carbonate stringers (1252-1277+).</p> <p>(1290-1321): ~20% pinkish beige, medium-grained, carbonate bands and laminations (marbled limy layers?); locally brecciated or small scale folding.</p> <p>(1321-1621): ~1/2-1% veinlets of carbonates with calcite (mostly from 1345 to 1359; also 1475-1501 with quick brown weathering). From 1453-1467, carbonated either throughout the rock mass or disseminated in mm. to cm. streaks, with quick brown weathering.</p> <p>Quartz veinlets with carbonates: 1402.5, 1406.7 to 1407.7, 1526, 1544, 1548-1549, 1560, 1580.5-1581.5, 1594.5-1596.0.</p> <p>The pyrite is often remobilized along hairline fractures or smeared in slips, mostly true in the first part of the intersection. At 1615 and 1620 Py found in blotch with magnetite.</p>								

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HOLE NO: 605-04

PAGE: 6 of 10

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		<i>Here and there, minor quantities of a white, very soft, non-slippery, mineral are found filling hairline stringers (the core sutured by such mineral stringers is easy to break by hand bending); on core surface, that mineral is eroded away but it is not soluble in water neither in HCl.</i>								
		<i>07256: Minor Py; dark and light grey, one foot carbonated at 290; some hematization.</i>	<i>07256</i>	<i>286.0</i>	<i>291.0</i>	<i>5.0</i>	<i>0.003</i>			
		<i>07292: Minor Py; 50% bluish grey, 35% blackish, 15% carbonated and quartz alteration in veinlets and along small cracks.</i>	<i>07292</i>	<i>382.0</i>	<i>387.0</i>	<i>5.0</i>	<i>Tr.</i>			
		<i>07293: Control; 40% fractured & altered (epidote, hematized, calcite; or bleached); trace of Py.</i>	<i>07293</i>	<i>576.0</i>	<i>581.0</i>	<i>5.0</i>	<i>Tr.</i>			
		<i>07294: Control; dark reddish brown, fractured a little; ~1/4% fine-grained Py. blocky core (4.5' recovered).</i>	<i>07294</i>	<i>630.0</i>	<i>635.0</i>	<i>5.0</i>	<i>0.002</i>			
		<i>07295: Control; 1/4% Py, spread along fractures and bedding; the rock is black with suggestion of very fine laminations.</i>	<i>07295</i>	<i>669.0</i>	<i>674.0</i>	<i>5.0</i>	<i>0.006</i>			
		<i>07296: Control; minor Py; the rock is locally very siliceous. 4.5' of core recovered.</i>	<i>07296</i>	<i>849.0</i>	<i>854.0</i>	<i>5.0</i>	<i>0.031</i>			
		<i>07297: Control; ~1/4% Py, very fine-grained; widespread weak alteration; grey with tinge of pinkish.</i>	<i>07297</i>	<i>888.0</i>	<i>893.0</i>	<i>5.0</i>	<i>0.008</i>			

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HOLE NO: 605-04

PAGE: 7 of 10

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		07298: Control; abundant pinkish tinge; slip-joints subparallel to C/A; < 1/4% very fine-grained Py; some calcite in fracture fillings.	07298	977.0	982.0	5.0	0.003			
		07299: 2' of reddish grey hematized; 1/4% very fine-grained Py; some slip-joints.	07299	982.0	987.0	5.0	Tr.			
		07300: 3' of reddish grey hematized; < 1/4% very fine-grained Py.	07300	987.0	992.0	5.0	Tr.			
		07311: ~1% fine-grained Py; somewhat silicified, traces of calcite.	07311	1032.0	1037.0	5.0	Tr.			
		07312: ~2% fine-grained Py, silicified, a little calcite.	07312	1037.0	1042.0	5.0	Tr.			
		07313: Control; ~5% reddish alteration in medium grey.	07313	1105.0	1110.0	5.0	0.002			
		07314: Control; 15% vuggy, altered, brecciated carbonate-quartz stringers; the rock is grey locally hematized; minor to traces of Py.	07314	1172.5	1177.5	5.0	Tr.			
		07315: 1-2% Py (disseminated and near vuggy veinlets); ~10% quartz-carbonate stringer material; blocky core and slickensides.	07315	1254.0	1259.0	5.0	Tr.			
		07316: 1/2-1% (tiny cubes and fine dust disseminated all through); ~2-4% quartz-carbonate stringer material; blocky core and slickensides.	07316	1259.0	1264.0	5.0	Tr.			
		07317: minor Py; 5-10% carbonates in brecciated portions; rock in part finely laminated.	07317	1288.0	1293.0	5.0	Tr.			

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HOLE NO: 605-04

PAGE: 8 of 10

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton	Ag oz./ton		
		07318: 60% beige carbonate bands; traces of Py; control.	07318	1293.0	1298.0	5.0	Tr.			
		07319: ~ 1/4% fine-grained Py (disseminated and near fractures); green & grey rock, fine-grained, siliceous with cherty look; control; minor carbonates (wuggy)	07319	1340.0	1345.0	5.0	0.002			
		07320: minor Py, 2% wuggy carbonates; siliceous, last foot pink (minor galena)	07320	1345.0	1350.0	5.0	Tr.	0.020		
		07321: 1/4% Py in streaks; siliceous rock; 5% carbonates in one veinlet subparallel to core axis.	07321	1350.0	1355.0	5.0	0.024	0.010		
		07322: ~1% Py (walls of 2% carbonates subparallel veinlet); siliceous rock.	07322	1355.0	1360.0	5.0	Tr.			
		07323: 1/2% Py (blabs & streaks); 15% quartz wuggy veinlet and 2-3% carbonates (wuggy)	07323	1405.0	1410.0	5.0	0.002			
		07324: ~ 1/2% Py (near fractures and disseminated); ~1% carbonates streaks and stringers	07324	1410.0	1415.0	5.0	Tr.			
		07325: traces of Py; magnetic; 6% quartz, 2% carbonates	07325	1445.0	1450.0	5.0	Tr.			
		07326: traces of Py; half magnetic; 1 foot carbonated, ~15% quartz-carbonates	07326	1450.0	1455.0	5.0	Tr.			
		07327: minor Py; cherty, carbonates streaks, 2% quartz; non magnetic	07327	1455.0	1460.0	5.0	Tr.			
		07328: < 1/4% Py; cherty, some carbonates streaks; 5% quartz; non magnetic	07328	1460.0	1465.0	5.0	Tr.			
		07329: minor Py; cherty, partly carbonated, 30% quartz; little magnetic	07329	1465.0	1470.0	5.0	Tr.	Tr.		

Falconbridge Ltd.

HOLE NO: 605-04

PAGE: 9 of 10

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton	Ag oz./ton		
		07330: traces of Py; some chert, some pink; ~3% carbonates, 30% quartz; little magnetic	07330	1470.0	1475.0	5.0	0.004	0.010		
		07331: 1/4% Py (in blackish); half pinkish, 10% carbonated, 1/3 magnetic; 1% quartz stringer, minor galena; minor white mineral (soft, translucent, non greasy, in hairline to mm. stringers and eroded on the core surface).	07331	1475.0	1480.0	5.0	Tr.	0.024		
		07332: minor Py; some chert, locally magnetic, ~20% quartz, ~5% carbonates	07332	1480.0	1485.0	5.0	Tr.			
		07333: minor Py; non magnetic, cherty, 15% quartz, ~2% carbonates	07333	1485.0	1490.0	5.0	Tr.			
		07334: <1/4% Py (in blackish, cherty); somewhat magnetic at lower end; 10% quartz veinlets	07334	1490.0	1495.0	5.0	Tr.			
		07335: minor Py; locally cherty, a little magnetic, <2% carbonates stringers	07335	1495.0	1500.0	5.0	Tr.			
		07336: <1/4% Py; magnetic, ~1% quartz stringers, minor white soft mineral in hairline stringer	07336	1500.0	1505.0	5.0	Tr.			
		07337: minor Py; bluish & some greenish grey, somewhat cherty; ~2% carbonates, local strong magnetism	07337	1505.0	1510.0	5.0	Tr.			
		07338: minor Py; bluish & greenish grey, cherty; 3% quartz veinlet, little carbonates; a little magnetic.	07338	1510.0	1515.0	5.0	Tr.			
		07339: ~1/4% Py; bluish cherty; ~2% carbonates stringers	07339	1515.0	1520.0	5.0	Tr.			

Falconbridge Ltd.

HOLE NO: 605-04

PAGE: 10 of 10

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		07340: minor Py; bluish cherty, 10% quartz-carbonates	07340	1540.0	1545.0	5.0	0.020			
		07341: minor Py; bluish cherty, 15-20% quartz with carbonates	07341	1545.0	1550.0	5.0	Tr.			
		07342: < 1/4% Py; bluish with greenish cherty, < 1% carbonates stringers	07342	1550.0	1555.0	5.0	0.020			
		07343: < 1/8% Py (disseminated); cherty, some pink	07343	1575.0	1580.0	5.0	Tr.			
		07344: minor Py; cherty, 50% quartz veinlet	07344	1580.0	1582.0	2.0	Tr.			
		07345: minor Py; cherty, a little pink	07345	1582.0	1587.0	5.0	Tr.			
		07346: 1/8% Py (mostly streaks), cherty, some pink	07346	1587.0	1592.0	5.0	0.002			
		07347: minor Py; some pink, cherty, 25% quartz veinlet	07347	1592.0	1597.0	5.0	Tr.			
		07348: minor Py; cherty (brecciated), some pink	07348	1597.0	1602.0	5.0	Tr.			
		07349: 1/8% Py (blotch); cherty (brecciated), a little pink	07349	1602.0	1607.0	5.0	Tr.			
		07350: > 1/8% Py (blotch); cherty (brecciated), traces of pink	07350	1607.0	1612.0	5.0	Tr.			
		07351: minor Py; cherty, 1% carbonates stringers	07351	1612.0	1617.0	5.0	Tr.			
		07352: minor Py; from grey to blackish at depth.	07352	1617.0	1621.0	4.0	Tr.			
1621		<u>END OF HOLE.</u>								
		Casings pulled out; red painted wooden post, bearing aluminum identification tag, set into the hole collar.								
		* Etch tube dip determinations: -60°(300'), -64°(600'), -62.5°(900'), -62.5°(1200'), -61°(1500').								
		J. André Carrier 84 08 07								

AU GEOCHEMISTRY

Diamond Drill Hole no: 605-05

Township: GARRISON

Log Summary		Geochemistry Sample					
Location (m) From To		Rock type	Sample no.	Location (ft.) From To		Au (ppb)	Remarks
			605-05-01	191.5	200.1	50	
			02	200.1	237.3	533	v. qtz only
			03	200.1	207.0	12	less v. qtz
			04	207.0	237.3	440	less v. qtz
			05	237.3	261	69	
			06	261	272	107	
			07	272	287	3	
			08	287	294	2	
			09	294	389	3	
			605-05-10	389	406.5	151	
			11	406.5	410	252	red, siliceous
			12	410	426	156	pink tinge
			13	426	449	224	pink tinge
			14	449	471.5	907	hematized, siliceous
			15	471.5	497	207	f-gr., pink tinge
			16	497	505	58	
			17	505	523	282	f-gr., pink tinge
			18	523	534.5	44	
			19	534.5	571	23	
			605-05-20	571	617	85	
			21	617	645	71	
			22	645	657.5	43	
			23	657.5	692	36	
			24	692	750	14	
			25	750	761	38	
			26	761	788.5	8	
			27	788.5	809	26	
			28	809	838	10	
			29	838	891	1	pink & red only
			605-05-30	838	891	1	less pink & red
			31	891	958	2	pink & red only
			32	891	958	1	less pink & red
			33	958	1034	1	
			34	1034	1074	1	

Falconbridge Ltd.

HOLE NO: 605-05

PAGE: 1 of 18

Drilled by: BRADLEY BROS. LIMITED
 Started: 84 07 20
 Ended: 84 08 03

Property: GARRISON BLOCK; PN-605
 Township: of GARRISON; CLAIM # 42915
 Logged by: J. ANDRÉ CARRIER

Latitude: 7+10 S
 Azimuth: 150°
 Élévation: ?

Longitude: 56+50 E
 Dip: -55°(collar), *
 Length: 1308 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
0	150	NW casing								
0	192	AW casing								
188	1308	AQ. wireline core (excellent to good recovery; good to fair R.Q.D., locally poor) laid into 48 boxes.								
0	188	<u>OVERBURDEN</u> 0-50: gravel with boulders 50-150: sand 150-188: gravel and boulders								
188	200.1	<u>FELDSPAR PORPHYRY</u> Brownish grey (tinge of pink); 40-50% sub- hedral fine to medium-grained whitish feldspar phenocrysts; traces to minor Py; occasional quartz stringer. Lower contact: ~40°C/A. 07301: control; minor fine-grained Py	07301	195.1	200.1	5.0	0.003			
200.1	237.3	<u>QUARTZ-CARBONATE CHLORITE SCHIST</u> Black with 5-40% mm. to cm. contorted white laminations. Probable bedding: 45° at 211'. Some quartz veinlets. Non-magnetic. Schistosity: 30-45°/A, dragfolded at several places (~0° at 223').								

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HOLE NO: 605-05 PAGE: 2 of 18

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton		REJECT	AVERAGE
		(200.1-207): schistose breccia (45-80% A), well chloritized, 20% red hematized and beige porphyry fragments, >25% quartz-carbonate laminations & stringers; some Py-bearing fragments.								
		(214-215): lost core.								
		(217.5-218.0): 2-3% fine-grained Py in chlorite schist.								
		07302: control; minor Py; 10% red hematized fragments.	07302	200.1	205.1	5.0	0.003			
		07353: traces of Py (fine-grained); 10% white stringers and laminations; reddish altered.	07353	205.1	207.0	1.9	Tr.			
		07354: traces of Py; 10% quartz veinlet; 15-20% white laminations.	07354	207.0	210.0	3.0	0.002			
		07355: minor Py (mostly from dm. layer at 211'); 20-25% white brecciated laminations; 4' of core recovered.	07355	210.0	215.0	5.0	Tr.			
		07356: ~1/4% Py (fine-grained; in dark lower third); blotch of hematite.	07356	215.0	219.0	4.0	Tr.			
		07357: >1/4% Py (fine to medium-grained; mostly in dark upper half); 15% quartz-carbonate (in third quarter).	07357	219.0	224.0	5.0	Tr.			
		07358: minor Py (next to brecciated, dragfolded quartz stringer).	07358	224.0	228.8	4.8	Tr.			
		07303: control; 45% quartz veinlets, traces of Py in chlorite schist (magnetic below 230).	07303	228.8	234.3	5.5	0.060		0.045	0.0525
		07359: minor Py; 5% quartz stringers.	07359	234.3	237.3	4.0	0.078		0.050	0.064

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HOLE NO: 605-05 PAGE: 3 of 18

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
237.3	272.0	<u>CHLORITIZED NETASE DIAMENTS</u> Black to blackish grey; some schistosity, better developed at both extreme quarters, 30-40° C/A usually, ~25° C/A at 244'. Upper contact: ~20° C/A. Bedding: ~30° at 251, 30-40° C/A near 260. Tinge of reddish in the central quarters; cm. to mm. laminations in last 10 feet. Fairly magnetic at most places. 07360: minor Py; ~2% hairline to mm. white (calcite-bearing) stringers 07304: > 1/4% Py (fine to medium-grained blebs, hairline stringers) in half-destroyed black & grey laminations. 07681: < 1/4% Py; dark grey micro-lenses laminated. 07682: traces of Py; medium grey finely laminated nearly schistose; some calcite at lower end.								
			07360	237.3	242.3	5.0	0.002			
			07304	261.0	265.0	4.0	0.012			
			07681	265.0	267.0	2.0	0.01			
			07682	267.0	272.0	5.0	Tr.			

Falconbridge Ltd.

HOLE NO: 605-05

PAGE: 4 of 18

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
272	389	<p><u>GABBRO</u></p> <p>Medium grey; homogeneous, massive; chloritized mafics, occasionally epidote in mm. fractures. Very fine-grained at contacts, gradually, over 10 to 20 feet, to medium-grained. Upper contact $\sim 45^\circ$; lower contact $\sim 45^\circ$; sheared and with a little gouge. Weakly magnetic. Tendency to yield a somewhat blocky core.</p>								
389	1074	<p><u>ALTERATION ZONE</u></p> <p>Schistose and bleached metasediments (& tuffs). Schistosity 30-70°/A; bleaching pervasive 426-800.5, stronger 617-800. Some fault gouge 1055-1066.</p>								
(389	426)	<p><u>CHLORITIZED METASEDIMENTS</u></p> <p>Greenish to blackish grey; mm. to cm. laminations (below 410, the rock holds calcite</p>								

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HOLE NO: 605-05 PAGE: 5 of 18

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton	REJECT	AVERAGE
		<p>and has a pinkish tinge added to its greys). Schistosity 30-70°/A and dragfolded; brecciated, strongly so in the first feet, with fault gouge at upper contact. Bedding ~ 45° at 411.</p> <p>Somewhat to fairly magnetic in places. Local minor Py. Lost core: 393-394. (406.5-410): 75% brick red, fractured, siliceous</p>							
		07603: traces of Py; 6" whitish grey siliceous not much brecciated, the rest olivish grey with black narrow streaks & slips (brecciated).	07603	389.0	392.0	3.0	0.02		
		07604: trace of Py; black and olivish grey, some- what schistose (not graphitic, mostly chlori- tic) & brecciated (former mudstone?).	07604	392.0	397.0	5.0	0.05	0.011	0.0305
		07605: minor Py; somewhat schistose to 400, darker & relatively more massive meta- siltstone below 400 (with minor Py).	07605	397.0	402.5	5.5	0.01		
		07361: minor Py; 2" of red; fractured chloritic; 3% calcite	07361	402.5	407.5	5.0	0.004		
		07362: traces of Py; brecciated brick red; 5% calcite-quartz stringers	07362	407.5	410.0	2.5	Tr.		
		07363: < 1/8% Py (fine-grained disseminated); fine calcite bearing, laminated, some gree- nish, traces of red.	07363	410.0	416.0	6.0	0.002		

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HOLE NO: 605-05

PAGE: 6 of 18

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		07364: minor Py; calcite-bearing laminations, dragfolded, minor red	07364	416.0	421.0	5.0	0.028			
		07365: traces of Py, control; 15-20% quartz-carbonate laminations & contorted stringers.	07365	421.0	426.0	5.0	0.002			
(426	617)	<u>PARTLY BLEACHED METASEDIMENTS (& TUFFS)</u> Approximate bedding: 45° at 446 & 475, 15°/A at 497, 45° at 505, 35°/A at 534.3. Fractured or schistose; frequent stockwork of mm. to cm. white stringers. Non magnetic to 480. 426-434: greenish & schistose & brecciated (over 1% Py from 429-434) 434-449: mixed (& brecciated) greys, white, reddish (at 439, 6 inches greenish & brecciated with 1 or 2% Py; 446-449 darker, more chloritic) 449-471.5: red hematized, siliceous, fractured; bearing minor to 1% Py; showing several grey laminations between 452.5-460; made of quartz-carbonate chlorite schist 466-468. Lost core 465-466; blocky core 460-473. At 467, 2" porphyritic felsite of purple center with green contacts (~40°C/A). 471.5-475: breccia chlorite schist 471.5-534.5: fine-grained greys with pinkish tinges, some reddish portions. (The grey holds some specular hematite dust; the pink is fractured, locally brecciated). Not so								

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HOLE NO: 605-05

PAGE: 7 of 18

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton	REJECT	AVERAGE
		fine-grained 497-505, 523-534.5. Reddish laminations locally 492-495 (~65°C/A at 493), also at 505 (~75°C/A): might be quartz stringers							
		534.3-571.0: greenish grey schist with 25-40% white mm. to cm. laminations (maybe former quartz stringers locally?); pinkish laminations in darker grey 563-566 (60-75°C/A). Former bedding(?): 75°C/A at 563, 65° at 571.							
		571.0-617: foliated or schistose greys with some pink to 592. Abundant pink and red below 592 (and more siliceous); two feet of pure brick red 615-617. Widespread mm. laminations. Laminations or bedding contacts: 60° (575), 50° (587, 600 & 612). Minor Py; some mm. white quartz streaks everywhere.							
		07366: minor Py; greenish rock; 15-20% quartz-carbonate stringers and laminations	07366	426.0	429.5	3.5	Tr.		
		07367: 3% Py (fine-grained to 1mm); 5-10% quartz-carbonate stringers, brecciated & dragfolded, some pink fragments	07367	429.5	433.0	3.5	0.050	0.045	0.0475
		07368: minor Py; ~5% calcite stringers and laminations; 25% pink	07368	433.0	438.0	5.0	0.024		
		07369: ~1/8% Py (in greenish breccia); 30% quartz-carbonate (little calcite) stringers and	07369	438.0	441.0	3.0	0.032		

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HOLE NO: 605-05

PAGE: 8 of 18

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./Ton	REJECT	AVERAGE
		<i>segregations; pinkish at upper end.</i>							
		07370: ~1/8% Py; 50% white and pink laminations (brecciated, no calcite)	07370	441.0	446.0	5.0	0.002		
		07371: minor Py; darker grey than above; no calcite	07371	446.0	449.0	3.0	0.008		
		07372: ~1/8% Py (fine dust); brick red rock, shea- red & brecciated; 2-3% quartz-carbonates (no calcite) deformed laminations	07372	449.0	454.0	5.0	0.028		
		07373: traces of Py; 60% whitish quartz, 40% pink & grey.	07373	454.0	456.0	2.0	0.018		
		07374: minor Py; pink, brecciated locally; 2% quartz stringers & laminations	07374	456.0	460.0	4.0	0.016		
		07375: ~1/8% Py (very fine-grained); pink, lami- nated; ~1% quartz stringers	07375	460.0	464.0	4.0	0.116	0.100	0.108
		07376: traces of Py; brecciated, 40% quartz; 2 feet of core recovered.	07376	464.0	467.5	3.5	0.002		
		07377: traces of Py (fine-grained); fractured red, relatively massive rock	07377	467.5	471.5	4.0	Tr.		
		07378: minor Py; 10% pinkish in chloritic matter with 30% white laminations; blocky core	07378	471.5	475.2	3.7	0.012		
		07379: 1/4% Py (one blotch) in pink & grey; 2% quartz stockwork of mm. stringers	07379	475.2	480.0	4.8	0.014		
		07380: 1/8% Py (fine-grained, mostly in darker portions); 1% mm. quartz stringers	07380	480.0	485.0	5.0	Tr.		
		07381: minor Py; 2% quartz stringers	07381	485.0	490.0	5.0	0.012		

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HOLE NO: 605-05 PAGE: 9 of 18

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./TON			
		07382: ~1/4% Py (fine-grained and blebe); 2-3% quartz-carbonate stringers and streaks	07382	490.0	495.0	5.0	0.002			
		07383: < 1/8% Py (fine-grained); 3-4% quartz-carbonate stringers	07383	495.0	497.1	2.1	0.002			
		07384: minor Py (fine-grained); medium-grained rock, not well laminated; 2-4% quartz-carbonate	07384	497.1	502.0	4.9	Tr.			
		07385: traces of Py; medium-grained rock, not well laminated; 1-2% quartz-carbonate stringers	07385	502.0	504.6	2.6	Tr.			
		07386: minor Py; 3 inches of dark brown laminated siliceous rock at upper end, 2-3% quartz-carbonate stringers and deformed laminations	07386	504.6	508.3	3.7	0.002			
		07387: minor Py; 5-8% hairline to mm. quartz-carbonate stringers stockwork	07387	508.3	513.3	5.0	Tr.			
		07388: traces of Py; 5-8% mm. stringers and patches of quartz-carbonate	07388	513.3	518.3	5.0	Tr.			
		07389: traces of Py; 5% mm. stringers and patches of quartz-carbonate	07389	518.3	523.3	5.0	0.002			
		07390: traces of Py; medium-grained rock, not well laminated; ~8% quartz-carbonate stringers and breccia matrix	07390	523.3	529.2	5.9	0.002			
		07391: traces of Py (very fine-grained); medium-grained rock, not well laminated; 2-3% mm. quartz-carbonate stringers	07391	529.2	534.2	5.0	Tr.			
		07392: minor Py; laminated & brecciated with	07392	534.2	538.0	3.8	0.010			

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HOLE NO: 605-05 PAGE: 10 of 18

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		<i>mm. to cm. siliceous layers; upper foot with 30% quartz veinlet and 50% quartz-carbonates patches & broken laminations</i>								
		07393: <i>traces of Py; schistose; 25-30% white laminations</i>	07393	538.0	543.0	5.0	Tr.			
		07394: <i>traces of Py; schistose; 25% white laminations</i>	07394	543.0	548.2	5.2	Tr.			
		07395: <i>traces of Py; schistose; 30-40% white laminations</i>	07395	548.2	553.2	5.0	Tr.			
		07396: <i>traces of Py; schistose; ~30% white laminations plus 1' quartz-carbonates veinlet</i>	07396	553.2	558.2	5.0	0.020			
		07397: <i>traces of Py; schistose; 25% white laminations</i>	07397	558.2	562.9	4.7	Tr.			
		07398: <i>traces of Py; laminated; blackish grey & dark red (with siliceous laminations)</i>	07398	562.9	565.8	2.9	Tr.			
		07399: <i>traces of Py; schistose; 35-40% white laminations including quartz-carbonates stringers</i>	07399	565.8	571.0	5.2	Tr.			
		07400: <i>< 1/8% Py (very fine-grained); greyish with some pink; ~3-4% whitish laminations</i>	07400	571.0	576.0	5.0	0.008			
(617	645)	<u>GREEN MICA SCHIST</u> <i>Greyish green to bright green; 30-60% pale beige to reddish > mm. to > cm. elongated nodules (former fragments or clastics, broken up laminations?). Frequently mm. to cm.</i>								

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HOLE NO: 605-05

PAGE: 11 of 18

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton	Ag oz./ton		
		<p>laminated. Some dm. reddish interbeds in the first 10 feet; one layer from 640 to 641. Schistosity: ~35°/A (620' & 634'), 45° (644'); locally dragfolded ~65°/A (624'). Maybe up to 1% Py (very fine-grained) in some reddish layers.</p>								
		07401: Control; minor Py (very fine-grained) in reddish; 1/3 reddish & pink, 1/3 beige & white, 1/3 greenish	07401	622.0	627.0	5.0	0.002			
		07402: Control; minor Py (very fine-grained) in 20% red layer; 25% beige to pinkish nodules & streaks; 55% bright green and whitish to dark greyish-green; traces of black metallic luster mineral (black streak, non magnetic, rather soft).	07402	640.0	645.0	5.0	Tr.	Tr.		
(645	657.5)	<p><u>REDDISH SILICEOUS ROCK</u> Brick red, fine-grained. Usually massive; fractured (quartz sutured); foliated around 654 (30-40°/A); some chloritic slip at upper contact. (648.5-649.5): quartz-carbonate chlorite schist. Locally maybe 1% Py (very fine-grained). Traces of black, metallic luster mineral (galena?).</p>								

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HOLE NO: 605-05

PAGE: 12 of 18

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton	Ag oz./ton		
		07403: Control; < 1/8% Py; 20% chlorite schist	07403	645.0	650.0	5.0	0.002	Tr.		
		07404: Control; 1/8% Py; ~5% quartz stringers and segregations	07404	650.0	655.0	5.0	Tr.			
		07405: Control; ~1/8% Py; minor black metallic mineral; ~5% quartz stringers & patches	07405	655.0	657.5	2.5	Tr.			
(657.5	749.8)	<u>GREEN MICA SCHIST</u> Bright emerald green to whitish-greyish green, mm. laminated. 20-60% whitish to yellowish olive to beige to light buff broken-up laminations, nodules and small layers. Schistosity: 40°/A (665'), 45°(730'), ~10°(739'); locally dragfolded 35°(657.5'), and axial plane cleavage. (692-694.5): brick red siliceous member; resting on 1-foot of laminated, somewhat brecciated admixture (of red, grey and greenish) holding 1-2% Py. No Py to speak of, except locally.								
		07406: Control; traces of Py; ~40% white laminations & segregations, 15% yellowish olive layers & laminations	07406	657.5	662.5	5.0	Tr.			
		07407: Control; ~1/4% Py; 90% reddish (hematite tized).	07407	691.0	696.0	5.0	Tr.			

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HOLE NO: 605-05

PAGE: 13 of 18

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
(749.8	760.9)	<u>FELDSPAR PORPHYRY</u> Whitish pink, 15-25% medium-grained lighter colored phenocrysts (not very outstanding due to abundant hairline microfracturing and hematization, which is stronger at lower end); somewhat sugary texture on broken core (finely crystalline matrix) The rock is very hard to scratch. Some patches of green mica/chlorite at 757. ~1/2% Py cubes.								
		07408: ~1/2% Py (cubes); rock is light colored, quite homogeneous	07408	749.8	755.0	5.2	Tr.			
		07409: ~1/2% Py (cubes); 2% chloritic admixture; hematized mostly at depth, ~1-3% healed hairline microfractures.	07409	755.0	760.9	5.9	Tr.			
(760.9	788.5)	<u>GREEN MICA SCHIST</u> (similar to 657.5-749.8) Much less beige or reddish layers and nodules (all under 775 and amounting to about 1 foot total). Bedding & schistosity: 30°/A (775'), 25° (785.5'); contorted or folded at several places. 07410: Control; no visible Py.								
			07410	760.9	766.0	5.1	Tr.			

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HOLE NO: 605-05

PAGE: 14 of 18

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
(788.5	809.0)	<p><u>SCHISTOSE ADMIXTURE ZONE</u></p> <p>70% pinkish buff altered sericite-quartz-carbonate rock (concentrated in upper 3 fifths), 30% greenish to blackish grey quartz-carbonate chlorite schist (blackish more abundant at depth, greenish at the top).</p> <p>Schistose (and locally dragfolded or brecciated, often laminated): 30° (793' & 803').</p> <p>Up to 1% Py in pinkish buff.</p> <p>07411: Control; < 1/8% Py (very fine-grained), in pinkish buff.</p>	07411	800.0	805.0	5.0	Tr.			
(809.0	~1074)	<p><u>BRECCIATED ZONE</u></p> <p>Quartz-carbonate-serpentine-chlorite schist. Dark grey to blackish; with reddish siliceous interbeds at lower half.</p> <p>Contacts: 35-50°^{CA} (843'), 35° (910'), 50° (923'), 35° (924.5 & 933'). Schistosity: 35°^{CA} (810'), 45° (833'), 30-40° (849'), 0-50° (887'), 30° (948.5'), 45° (991'), 40° (1008').</p> <p>Below 945: calcite stringers (+some calcite here and there in the rock mass)</p> <p>(809-838): abundant white and some pink deformed laminations, fragments, nodules and stringers; more breccia-like.</p> <p>(838-891): 10-25% dark pinkish grey to</p>								

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HOLE NO: 605-05

PAGE: 15 of 18

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		<p>reddish siliceous layers & patches.</p> <p>(891-958): some slickensides, more stringers in schist portions; 40% m. to d.m. reddish siliceous interbeds encountered as follow: 891-893, 897.5-898, 899-901, 908-909.2, 911-912, 912.5-914, 914.5-916, 917-921.5, 923-924.3, 933-937, 943-944, 945-948, 955-958.</p> <p>Only 891-893 & 908-909.2 have trace to minor Py, very fine-grained.</p> <p>(958-1074): often fractured, locally brecciated; 1-10% white mm. stringers (also hairline and cm.) both in schistose and in competent rock types.</p> <p>Frequent blocky core and slip surfaces; quite sheared, with mylonite & some gouge (1038-1042, 1055-1057, 1064.5-1068; 1065-1066.5 being the strongest sheared).</p> <p>(982-983, 1005-1006.7, 1028 ~ 1034): dark grey (tinge of pinkish) siliceous; very fine-grained Py from 1005.0 to 1006.7.</p> <p>(1042-1048, 1058.5-1064.5): greyish to brick red siliceous interbeds, minor Py</p>								
		07412: Control; minor Py (very fine-grained, in reddish grey); 40% serpentine-chlorite schist.	07412	908.0	913.0	5.0	Tr.			
		07413: Control; minor Py; 3% calcite stringers, 30% siliceous	07413	1004.0	1009.0	5.0	Tr.			

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HOLE NO: 605-05

PAGE: 16 of 18

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
~1074	1308	07414: <i>Control; traces of Py; greyish-brownish red, porphyritic</i>	07414	1042.0	1047.0	5.0	Tr.			
		07415: <i>20% reddish grey to red; 80% serpentine-chlorite schistose & 2-3% quartz-calcite stringers.</i>	07415	1047.0	1052.0	5.0	Tr.			
		07416: <i>minor Py; hematized red siliceous.</i>	07416	1058.5	1063.5	5.0	Tr.			
		<u>LITTLE ALTERED METASEDIMENTS (& TUFFS)</u>								
		<i>Dark to medium, and blockish greys; locally hematized (tinge of pink, a little red). Several cherty-looking members (often microfractured), some calcite-bearing layers & zones.</i>								
		<i>Laminations: ~50-60°/A at 1106 & 1109; bedding: 65°/A at 1128', ~55° at 1157', 45° at 1184', ~20° at 1219', 30-45° at 1253', 45° (1278 & 1288').</i>								
		<i>Quite blocky, core: 1175-1212, 1290-1302.</i>								
		<i>Quartz veinlet: 1196.5-1197; calcite veinlet: 1199.3-1199.5.</i>								
		<i>Frequent Py dust disseminations, also blebs and streaks; reaching 2% Py very locally.</i>								
		<i>(1268-1289): 8% epidote and some pyrite, possibly some garnets: mostly from 1271 to 1271.5 1274.5 and at 1279.</i>								
		07417: <i><1% Py (cubes and blebs, in darker lower part); 60% pinkish grey upper part.</i>	07417	1075.0	1080.0	5.0	Tr.			

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HOLE NO: 605-05

PAGE: 17 of 18

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		07418: > 1/4% Py (deformed streaks, blebs); dark grey cherty	07418	1100.0	1105.0	5.0	Tr.			
		07419: ~ 1/2% Py (deformed streaks, blebs); in dark grey (a little local pinkish) cherty; half of it is laminated	07419	1105.0	1110.0	5.0	Tr.			
		07420: ~ 1/4% Py (blebs, some in stringers, following laminations); dark grey cherty	07420	1110.0	1115.0	5.0	Tr.			
		07421: ~ 1% Py (fine-grained, disseminated), following occasionally laminations or stringers; blackish-grey somewhat cherty.	07421	1145.0	1150.0	5.0	0.002			
		07422: < 1/2% Py (fine-grained, disseminated), in blackish and dark greys; over 60% with a tinge of pink and quite cherty.	07422	1150.0	1155.0	5.0	Tr.			
		07423: ~ 1/4% Py (fine-grained, disseminated); very cherty; some quartz stringers with pink walls.	07423	1155.0	1160.0	5.0	Tr.			
		07424: < 1/4% Py (disseminated); 10% quartz veinlet; 5% calcite veinlet; grey, cherty, some pinkish.	07424	1195.0	1200.0	5.0	Tr.			
		07425: ~ 1/4% Py (fine-grained, disseminated, some blebs); dark grey cherty, some brownish pinkish	07425	1200.0	1205.0	5.0	Tr.			
		07426: ~ 1/4% Py; 15-20% epidote; the rock is fine-grained, greenish-grey, siliceous	07426	1270.0	1275.0	5.0	Tr.			
		07427: ~ 1/4% Py (very fine-grained); in medium grey, fine-grained greywacke; locally	07427	1303.0	1308.0	5.0	0.002			

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HOLE NO: 605-05

PAGE: 10 of 18

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
	1308	<p>a little pinkish; ~1% quartz-carbonate stringers.</p> <p><u>END OF HOLE.</u></p> <p>Casings pulled out; red painted wooden post, bearing aluminum identification tag, set into the hole collar.</p> <p>* Etch tube dip determinations: -55°(300'), -55°(600'), -51.5°(900'), ≈-50°(1200').</p> <p>J. André Carrier 84 08 16</p>								

AU GEOCHEMISTRY

Diamond Drill Hole no: 605-06

Township: GARRISON

Log Summary

Geochemistry Sample

<u>Location (m)</u> From To		<u>Rock type</u>	<u>Sample no.</u>	<u>Location (ft.)</u> From To		<u>Au (ppb)</u>	<u>Remarks</u>
			605-06-01	192	280	3	
			02	280	293	9	
			03	293	342	2	
			04	342	357	29	
			05	357	416	2	
			06	416	433	74	
			07	433	476	2	
			08	476	512	<1	
			09	512	524	1	
			605-06-10	524	562	<1	
			11	562	597	<1	
			12	597	653	<1	
			13	653	718	2	
			14	718	776	2	
			15	776	823	2	
			16	823	848	3	
			17	848	868	3	
			18	868	873	66	
			19	873	880	57	
			605-06-20	880	901	3	
			21	901	926	10	
			22	926	940.5	13	
			23	940.5	955.5	128	
			24	955.5	985	8	
			25	985	1010	5	
			26	1010	1040	27	
			27	1040	1051	2	
			28	1051	1063	60	
			29	1063	1096.5	4	
			605-06-30	1096.5	1104	5	
			31	1104	1129.5	11	
			32	1129.5	1214	5	
			33	1214	1220	5	
			34	1220	1241	<1	

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HOLE NO: 605-06 PAGE: 1 of 9

Drilled by: BRADLEY BROS. LIMITED
 Started: 84 08 04
 Ended: 84 08 13

Property: GARRISON BLOCK; PN-605
 Township: of GARRISON; CLAIM* 42938
 Logged by: J. ANDRÉ CARRIER

Latitude: 10+25 N
 Azimuth: 180°
 Élévation: ?

Longitude: 44+00 E
 Dip: -60°(collar), *
 Length: 1532 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
0	70	NW casing								
0	192	AW casing								
192	1532	AQ wireline core (excellent core recovery, excellent to good R.Q.D.) laid into 56 boxes.								
0	188	<u>OVERBURDEN</u> 0-163: Sand 163-188: Gravel								
188	873	<u>METASEDIMENTS</u> Dark greenish to medium grey, very fine to fine-grained, greywackes & shaley siltstones; locally brecciated or fractured and lighter color (some Py at 284). Tops northward (according to graded bedding determinations at 353 and 600). Bedding: ~45°(320), 50°(353), ~20°(424), 30°(440), 40°(454), 45°(600 & 615); also 30°(779) and 30°(779.2), these last two make 45° between themselves, the former making 65°(A) and the latter 80 to 75°(A) with a micro-fault which has ~1/2" bedding separation and makes 25°(A). At 778, 20°(A) slickensides on								

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HOLE NO: 605-06

PAGE: 2 of 9

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
		<p>many slip surfaces subparallel to core axis. Other bedding planes: 30° (821), 20° (855 & 867), 40° (871.5). 1/2 to 3% quartz and/or brownish weathering carbonate (with calcite) stringers; rock mass not carbonated. Frequent very fine-grained pyrite, up to 2% in some narrow layers or brecciated portions.</p> <p>(~776-873): cm. to mm. laminated, light grey to blackish, more evident at certain places; very py at 815 and near 820. 868-873 laden with massive sulfides (50% Py & 3% Po ... more detailed in assay samples descriptions below).</p>								
		07800: Minor Py; mostly metasediments, some fractured (flow tops?) portions carbonated & lighter green; 3" quartz-rich portion.	07800	416.0	421.5	5.5	Tr.			
		07808: traces of Py; probable lava flow; lighter green, carbonated & sheared near the top (40° (A)); 20° (A) lower contact.	07808	421.5	424.4	2.9	Tr.			
		07809: ~ 1/4% Py (disseminated cubes) in fine to medium-grained greywacke.	07809	424.4	429.4	5.0	Tr.			
		07810: minor Py; greywacke with ~1 foot of fractured lava (lighter green and carbonated).	07810	429.4	433.4	4.0	Tr.			

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HOLE NO: 605-06

PAGE: 3 of 9

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton	Ag oz./ton		
		07428: ~1/2% Py & Po (in aggregates, also in very fine laminations); dark grey & black mm. to cm. laminated metasediment (cherty shaley siltstones).	07428	858.0	863.0	5.0	Tr.			
		07429: ~1/2% Py (aggregates & along laminations); 20% graywacke, 80% cherty & shaley siltstones	07429	863.0	868.0	5.0	0.002			
		07430: 80% Py, 2% Po (% in volumes; botroidal and laminations, locally fragmented); shaley siltstone at upper end, some black chert within the most massive zone.	07430	868.0	870.8	2.8	0.002	0.090		
		07431: 20% Py, 4% Po (in deformed laminations fragmented at lower end); laminated shaley siltstone, somewhat cherty.	07431	870.8	873.0	2.2	0.004	0.042		

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HOLE NO: 605-06

PAGE: 7 of 9

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
873	1096.5	<p><u>INTERMEDIATE TO BASIC VOLCANIC ROCKS</u></p> <p>Greenish grey, somewhat fractured, relatively homogeneous intermediate lavas (including some not so fine-grained subvolcanic rocks); mixed with basalt, some tuffe and possibly metasedimentary bands here and there.</p> <p>Bedding: ~ 40°/A (893), 50° (922.5), 30° (940).</p> <p>(873-901): 1-4% Py (with Po).</p> <p>(873 ~ 1015): several local thin bands of sedimentary breccia (and most likely micro-aggglomerate).</p> <p>(~ 922 - 940): blackish grey basalt; 1-2% black rectangular mafics below 931; 50°/A upper contact, 35° lower contact; non magnetic; a little carbonate-healed fractured, more so at upper end.</p> <p>(1051.5-1063.5): dark brownish pinkish grey feldspar porphyry; somewhat to fairly magnetic; 3-8% medium to coarse feldspar phenocrysts with grey core and whitish rim; some Py.</p> <p>07432: ~1% Py (cubes & disseminated; along stringers and laminations); relatively pale brownish grey cherty, not well laminated.</p> <p>07433: minor Py; dark to medium grey rock.</p> <p>07434: 25% Py (massive portions & laminations); light grey, very siliceous.</p>								
			07432	873.0	876.7	3.7	Tr.			
			07433	876.7	878.8	2.1	Tr.			
			07434	878.8	880.8	2.0	0.001			

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HOLE NO: 605-06

PAGE: 5 of 9

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton	Ag oz./ton		
		07435: minor Py (in lighter grey bleached along fractures at lower end); dark grey ta-salt-like	07435	880.8	885.8	5.0	Tr.	Tr.		
		07436: ~5% Py (disseminated & aggregates in deformed mm. to cm. laminations); light to medium grey cherty, some dark grey	07436	885.8	890.8	5.0	0.002			
		07437: 1-2% Py (mostly in deformed mm. lamination at 895); medium to dark grey locally bleached along fractures; 894 to 895 is greywacke-like.	07437	890.8	895.8	5.0	0.002			
		07438: ~1% Py (near micro-agglomerate portions and in laminations); dark and light greys, some parts are hard to scratch.	07438	895.8	900.8	5.0	0.006			
		07439: ~1% Py (mostly aggregates in laminations, also fractures); a little epidote development, 1-2% quartz-carbonates (with calcite) fracture healing.	07439	940.6	945.6	5.0	0.004			
		07440: ~1/4% Py (disseminated & following laminations); ~2% quartz-carbonates (with calcite) fracture healing & stringers.	07440	945.6	950.6	5.0	0.002			
		07441: ~1/4% Py (mostly aggregates in one lamination; disseminated); ~1% quartz-carbonates (with calcite) fracture healing.	07441	950.6	955.6	5.0	Tr.			
		07442: < 1% Py (breccia & deformed laminations), mostly in upper 2 feet; 10% brown-weathering carbonates (with calcite), mostly all in last 3 feet.	07442	985.0	990.0	5.0	Tr.			

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HOLE NO: 605-06

PAGE: 6 of 9

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		07443: ~ 1/4% Py (disseminated, some aggregates, also one stringer); 2-4% brown weathering carbonates (+ calcite) stringers	07443	1005.0	1010.0	5.0	Tr.			
		07444: < 1/2% Py (very fine-grained); 4% carbonates (+ calcite) veinlet	07444	1051.0	1056.0	5.0	0.002			
		07445: < 1/2% Py (fine-grained)	07445	1056.0	1061.0	5.0	0.016			
		07446: < 1/2% Py (fine-grained)	07446	1061.0	1063.5	2.5	0.002			
		07447: ~ 1/2% Py (fine-grained); non-porphyrific contact rock (hard to scratch).	07447	1063.5	1066.0	2.5	0.010			
1096.5	1283	<u>GABBRO</u> Grey, fine to medium-grained; chloritized mafic. From 1248 to 1253: brecciated, with epidote, also quartz-carbonates; some fine-grained Py. (1219-1241): grey, fine-grained andesite dyke.								
		07448: < 1/8% Py (locally regrouped grains); control of medium-grained gabbro.	07448	1145.0	1150.0	5.0	0.002			
		07449: < 1/8% Py; brecciated gabbro (1 foot of quartz-carbonates with calcite; also 1 foot of epidote on both sides not far from quartz-carbonates portion). Control.	07449	1248.5	1253.5	5.0	Tr.			

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HOLE NO: 605-06

PAGE: 7 of 9

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
1283	1427	<u>INTERMEDIATE TO BASIC VOLCANIC ROCKS</u> Greenish grey to blackish green lavas and subvolcanic rocks; some local tuffs. (1283-1291.5): andesite; cm. brecciated near the top over 3 feet (micropillows?). (1291.5-1296.5): dark reddish brown felsite (similar 1051.5-1063.5 without phenocrysts). (1296.5-1303, 1321-1330): medium-grained gabbro with fine-grained lower contact over 2-3 feet. (1303-1321): feldspar porphyry (similar 1051.5-1063.5), locally up to 2% Py and some epidote below 1310. (1330-1347): fine-grained dacite/andesite with sheared flow top (or tuff?) 55°C/A. (1347-1427): basalt/andesite with tuff laminations from 1388-1389 making ~35°C/A and holding one cm. Py-bearing deformed lamina. 07450: minor Cp, tr Py (in quartz, epidote-healed fracture); grey fine-grained volcanic rock; control of next sample hanging-wall. 07451: minor Py (very fine-grained); dark reddish grey felsitic dyke; upper contact 55°C/A 07457: traces of Cp & Py; control; medium-grained gabbro; contacts: upper 50°, lower 35°C/A.								
			07450	1286.5	1291.5	5.0	Tr.			
			07451	1291.5	1296.5	5.0	0.012			
			07457	1296.5	1303.0	6.5	Tr.			

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HOLE NO: 605-06

PAGE: 8 of 9

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		07452: ~1/8% Py; ~10% epidote (2/3 of it at upper contact).	07452	1303.0	1306.0	3.0	Tr.			
		07453: ~1/2% Py (cubes & miscellaneous grains, in-sipient remobilization in stringers); 5-10% epidotized.	07453	1306.0	1311.0	5.0	Tr.			
		07454: ~1/2% Py (cubes & miscellaneous grains, some remobilized in stringers); 5-10% epidotized.	07454	1311.0	1316.0	5.0	Tr.			
		07455: 1/2% Py (cubes & miscellaneous grains, narrow stringers); 8% epidotized (1/3 of it at lower contact). Lower contact at 1321.1 making 45° with core axis.	07455	1316.0	1321.2	5.2	Tr.			
		07456: traces of CP & Py; medium-grained gabbro, partly epidotized; control.	07456	1321.2	1326.2	5.0	0.010			
1427	1532	<u>GABBROS</u> Locally contaminated. Magnetic from 1475 to 1517. (1500.5-1503): carbonates (+calcite)-quartz veinlet making ~20°/A at both contacts; non magnetic. 07530: minor Py (in quartz-calcite segregation); contaminated gabbro: 50% fine-grained inclusion (or interband?) with 40°/A contacts, ~8% carbonates (+calcite)-quartz stringer and segregation.	07530	1465.0	1468.0	3.0	Tr.			

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HOLE NO: 605-06

PAGE: 9 of 9

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./TON			
		07531: ~ 1/8% Cp (in quartz-bearing cm. stringer near cross-cutting mm. calcite stringer); coarse & med.-grained gabbro.	07531	1468.0	1473.0	5.0	Tr.			
		07532: ~ 1% Py (in dark reddish gabbro with 10% calcite stringers); green & red medium-grained gabbro, magnetic.	07532	1490.0	1493.0	3.0	0.002			
		07533: minor Py; carbonates (+calcite) & quartz brecciated portion (~5% dark fragments), 20% A contacts; sample holding 10% country rock.	07533	1500.3	1503.2	2.9	Tr.			
		07534: traces of Py; fine to medium-grained gabbro (quite homogeneous), 2% > mm. quartz-carbonates (+calcite) stringers.	07534	1527.0	1532.0	5.0	Tr.			
	1532	<u>END OF HOLE.</u>								
		Casing pulled out; red painted wooden post, bearing aluminum identification tag, set into the hole collar.								
		* Etch tube dip determinations: -64°(300'), -60°(600'), -58°(900'), -55°(1200'), -55.5°(1500').								
		J. André Carrier 84-10-17								

GARRISON OPTION "MICHAUD TWP." PN-620

1984 DIAMOND DRILL LOGS, ASSAYS,

& GEOCHEMICAL GOLD

HOLES # 620-01 to 620-22

AU GEOCHEMISTRY

Diamond Drill Hole no: 620-01

Township: MICHAUD

Log Summary		Geochemistry Sample				
Location (m) From To		Sample no.	Location (ft.) From To		Au (ppb)	Remarks
		620-01-01	86	119	22	
		02	119	139	4	
		03	139	170.5	1	
		04	170.5	177.5	8	
		05	177.5	197	20	
		06	197	219	1	porphyries only
		07	197	219	<1	less former 1
		08	229	231.5	<1	
		09	219	240	5	less former 1
		620-01-10	240	249.5	2	
		11	249.5	319	7	greyish porphyries only
		12	249.5	319	3	reddish porphyries only
		13	249.5	319	<1	less former 2
		14	319	349	<1	
		15	349	386	<1	porphyries only
		16	349	384	1	less former 1
		17	{ 384	{ 400	2	gabbroic only
			{ 419.5	{ 435		
		18	400	419.5	<1	porphyries only
		19	400	419.5	3	less former 1
		620-01-20	435	495	11	porphyries only
		21	435	495	1	less former 1
		22	495	511	105	
		23	511	518	<1	
		24	518	524	<1	
		25	524	569	<1	porphyries only
		26	524	569	1	less former 1
		27	569	631.5	5	porphyries only
		28	569	631.5	<1	less former 1
		29	631.5	656	19	porphyries only
		620-01-30	631.5	656	2	less former 1
		31	656	692.5	48	
		32	692.5	712	<1	
		33	712	725	19	

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HOLE NO: 620-01 PAGE: 1 of 10

Drilled by: BRADLEY BROS. LIMITED

Property: MICHAUD BLOCK; PN-620

Latitude: 130+00N

Longitude: 280+00E

Started: 84 08 29

Township: of MICHAUD; CLAIM # 40910

Azimuth: 150°

Dip: -45°(collar), *

Ended: 84 09 08

Logged by: J. ANDRÉ CARRIER

Élévation: ?

Length: 979 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
0	80	NW casing								
0	86	AW casing								
87	979	AQ wireline core (excellent to good core recovery, good to locally poor R.Q.D.) laid into 3 B boxes).								
0	86	<u>OVERBURDEN</u> Sand & gravel with boulders.								
86	240	<u>LATH FELDSPAR PORPHYRIES</u> Reddish, pegmatitic; 10 to 60% medium to coarse-grained whitish pink to red, in part lath, feldspar phenocrysts (locally very coarse); some grey (quartz?) phenoc, ~5-20% mafic of various grain sizes; the groundmass is darker red. To 119, more than half the rock is pitted (to porous-looking; often with rusty rags in the matrix). Magnetic below 136. Minor to no Py. Porphyries thought to penecontemporaneously cut across other porphyries (most contacts are not clear). Lower contact ~30°C/A.								

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HOLE NO: 620-01

PAGE: 2 of 10

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
		<p>(138-177.4): mafic inclusion, greenish black, fine grained, chloritized (probably also much biotite); somewhat to fairly magnetic; criss-crossed by several narrow dykelets of felsic porphyries; appears in places formerly brecciated.</p> <p>At 151, yellowish gouge along narrow shear 10-15°/A; some slips at 152.5</p> <p>Less than 2% hairline to mm. calcite stringers.</p> <p>(187-199): mafic-rich</p> <p>(199-218): 80% mafic inclusions</p> <p>(229-232): some mafic inclusions</p> <p>Lost core: 1 foot at the beginning; slight loss between blocky core pieces at several places; 139-140, 143-148.5 (driller reported seam), 154.5-155.5, half a foot from 160 to 162.</p>								
		07601: ~ 1/4% Py (very fine-grained) in red lath porphyries, chloritized & sericitized mafic.	07601	177.4	182.4	5.0	Tr.			
		07602: idem 07601.	07602	182.4	187.4	5.0	Tr.			

Falconbridge Ltd.

HOLE NO: 620-01

PAGE: 3 of 10

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
240	319	<p><u>CONTAMINATED PORPHYRIES & BRECCIA</u></p> <p>Locally quite magnetic.</p> <p>9' of pinkish grey, mafic contaminated porphyritic syenite; followed by 40' of brecciated, chloritized & biotized, volcanic rock (holding 20% porphyries & syenite, mafic contaminated, dykelets); then 5' of greyish red altered porphyry (~1.5% Py disseminated & grain chaining in fissures) with 40-50% A contacts; finally 24' of chloritized mafic volcanic rocks inclusions containing 15' (280-285, 315-318, and 7' of narrow dykelets) of various syenitic porphyries.</p> <p>302.5: segregation of pyrite in granular mafic zone; ~10% over 6 inches.</p> <p>Lower half has blocky core; lost core from 319 to 320.</p> <p>07603: Control; minor Py in reddish</p> <p>07604: ~1.5% Py in red altered porphyry</p> <p>07605: Control; minor Py in reddish</p> <p>07606: ~2% Py (segregations); 40% porphyry dykelets, 60% mafic</p>								
			07603	264.0	269.0	5.0	Tr.			
			07604	269.0	274.8	5.8	Tr.			
			07605	274.8	279.8	5.0	Tr.			
			07606	301.0	304.0	3.0	Tr.			

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HOLE NO: 620-01

PAGE: 4 of 10

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
319	349	<p><u>MAFIC TO ULTRAMAFIC ROCK</u></p> <p>Bluish black, magnetic, fine-grained, quite homogeneous; locally up to 5% mm. calcite stringers.</p> <p>Cut by two syenite dykes near 340 (at 75-80°C/A). 3" gangy at lower contact (35°C/A with felsic rock underneath).</p>								
349	384	<p><u>INTRUSION BRECCIA</u></p> <p>40% pinkish grey syenite porphyry, contaminated with mafics & cross-cutting chloritized volcanic rocks. Blocky core.</p> <p>(352.5-359): 10% sharry streaks in the volcanic rocks.</p>								
384	435	<p><u>GABBRO INCLUSIONS</u></p> <p>Greenish grey, fine to medium-grained epidotized feldspar, chloritized mafics; above 400, generally little magnetic; below 419, more magnetic. All over, half the core is blocky.</p> <p>Near 396, magnetic & epidotized & 10% Py blebs in cm. band.</p> <p>Seems cut by syenite porphyry; ~15°C/A contact at 400, ±45° irregular contact at 384, low angle to core axis at 400', high angle at 419.</p>								

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HOLE NO: 620-01

PAGE: 5 of 10

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz/ton			
		<p>The inclusions are quite massive (only cut by some < cm. felsic reddish dykelets).</p> <p>(400-419.5): Breccia holding 1/3 felsic porphyry, 2/3 chloritized volcanic rocks (locally epidotized and/or charnized). Minor fine-grained Py in the porphyry.</p>								
435	495	<p><u>INTRUSION BRECCIA</u></p> <p>~55% felsic porphyry (mostly pinkish grey, some felsitic, some lath porphyry, a little mafic feldspar porphyry); ~45% chloritized volcanic rocks.</p>								
		<p>07607: 1/2% Py in lath feldspar porphyry with 1/3 fine-grained portion.</p>	07607	485.5	487.5	2.0	0.01			
495	511.0	<p><u>LATH FELDSPAR PORPHYRY</u></p> <p>Coarse to medium grained, reddish; some incompletely assimilated mafic portions. ~40-70% upper contact (multiple and partly digested); ~45% lower contact (somewhat irregular).</p>								
		<p>07608: ~1/4% Py (fine-grained, disseminated) in contaminated red & dark reddish grey hematized lath feldspar porphyry (magnetic at lower end). Control.</p>	07608	506.0	511.0	5.0	0.01			

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HOLE NO: 620-01

PAGE: 6 of 10

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
511.0	656.0	<p><u>MAFIC INCLUSIONS</u></p> <p>Chloritized (maybe some biotite), magnetic at several places, fine to medium-grained; sometimes schistose to laminated $\sim 30^\circ/A$ (319'); brecciated $\sim 45^\circ$ (near 609', at 640'), $\sim 30^\circ$ (650').</p> <p>Cut across by 20% felsic dykelets & dykes (10% grey; 10% pinkish grey, including some red siliceous at 575 & 615; often contaminated by mafics).</p> <p>Contains some tuffe or metasediments.</p> <p>Half the core is blocky; locally some lost core.</p> <p>Only minor Py (usually in red portions).</p>								
656.0	692.5	<p><u>REDDISH SYENITIC PORPHYRIES</u></p> <p>Brickish red hematized to 662 or 663, medium coarse lath feldspar phenocrysts to 679 and relatively fresh; more brick red hematized 679 to 692.5, somewhat mafic contaminated at lower end.</p> <p>Upper contact undulated $\sim 30^\circ/A$; lower contact $\sim 45^\circ$ (not very clear).</p> <p>Some Py disseminations mostly in the brick red.</p>								

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HOLE NO: 620-01

PAGE: 7 of 10

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		07571: ~1/4% Py (local regroupings); 2 inches of blackish upper contact.	07571	656.0	661.0	5.0	Tr.			
		07572: ~1/2% Py (fine-grained, mostly in one patch of grayish at 663).	07572	661.0	663.0	2.0	Tr.			
		07573: < 1/2% Py (fine-grained); siliceous in places, feldspar phenocr. elsewhere.	07573	679.0	684.0	5.0	Tr.			
		07574: ~1/4% Py (fine-grained); idem 07573	07574	684.0	689.0	5.0	Tr.			
692.5	744.0	<u>MAFIC INCLUSIONS</u> Highly chloritized, also serpentinitized, fine to medium-grained basic to ultrabasic rocks. Fractured and cemented by talcose stringers to 708.5; blackish to 708.5, medium to dark grey, sometimes laminated (tuffs?), there-after. Some reddish dykelets. (714-725): brickish red feldspar porphyry; fractures holding films of chlorite, often brecciated appearance (especially in first feet). 07609: Control. Grey tuffs (or metasediments) with 10-15% red dykelets & segregations, cut by ~1% quartz stringers. Minor to traces of Py. 07610: Minor to traces of Py; control; red altered syenite with several chloritic slips;								
			07609	710.0	715.0	5.0	Tr.			
			07610	715.0	720.0	5.0	Tr.			

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HOLE NO: 620-01

PAGE: 8 of 10

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AV oz./ton			
744.0	806.3	1.5' greyish (mixed with tuffe?).								
		07611: Minor to traces of Py. Coarsel. Red-altered syenite with several chlorite slips.	07611	720.0	725.0	5.0	Tr.			
		<u>REDDISH SYENITE PORPHYRIES</u>								
		Mixed hematized & medium to coarse feldspar phenocrysts porphyries; brickish red to 750, red & grey to 755.								
		Grey, some reddish, 3/4" whitish lath feldspar feldspar porphyry to 776.5.								
		Dull reddish to 782.5.								
		Black inclusion 782.5 to 784.0.								
		Pinkish (or whitish) red mixed with brick red 784.0 to 790.5.								
		Upper contact 55% α , lower contact 40% α .								
		07561: <1/4% Py (disseminated here & there); specular hematite stringer.	07561	744.0	750.0	6.0	Tr.			
		07562: minor Py	07562	750.0	755.0	5.0	Tr.			
		07563: traces of Py	07563	755.0	760.0	5.0	Tr.			
		07564: minor Py	07564	784.0	786.0	2.0	Tr.			
07565: ~1/2% Py (fine-grained); 3" black inclusion.	07565	786.0	788.0	2.0	Tr.					
07566: <1/2% Py (fine-grained)	07566	788.0	791.0	3.0	Tr.					
07567: ~1/4% Py; ~5% quartz stringers	07567	791.0	796.0	5.0	Tr.					
07568: <1% Py (fine-grained); 6-8" blackish magnetic inclusions with shear zone	07568	796.0	799.0	3.0	Tr.					

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HOLE NO: 620-01

PAGE: 9 of 10

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		at 798 (~45 to 30°C/A).								
		07569: Traces of Py; 70% blackish material (magnetic in places), some schistosity ~30°C/A.	07569	799.0	803.0	4.0	Tr.			
		07570: < 1/8% Py	07570	803.0	806.3	3.3	Tr.			
806.3	979.0	<u>VOLCANIC ROCKS (70%) & PORPHYRITIC SYENITES (30%)</u> The volcanic rocks hold ~1% mm. to hairline calcite & quartz stringers, are often foliated or laminated ~45 to ~20°C/A (mostly tuffs, possibly some metasediments). The porphyritic syenites are mostly reddish. (829-832, 835-845.5, 897-901): magnetic porphyry. (832-834, ~869-875, ~975-979): magnetic chloritic rocks and inclusions. (827-828): whitish felsic intrusive, ~15°C/A contacts. (868-869): whitish felsic intrusive, some pink feldspar phenocrysts visible and in contact with reddish grey syenite porphyry dykelet). (875-888): brick red altered feldspar porphyry; 80°C/A upper contact, ~45°C/A lower contact. (854, 859, 906, 918, 934, 958, 967, 977): dykelets. (941.5-953.5): 2.5' salmon red on 1 foot mafic inclusion on 8.5' grey porphyritic syenite; holding several white quartz veinlets & stringers.								

Falconbridge Ltd.

HOLE NO: 620-01

PAGE: 10 of 10

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		07612: ~1/4% Py (disseminated); brick red altered syenite.	07612	875.0	880.0	5.0	0.01			
		07613: >1/4% Py (disseminated); brick red altered syenite.	07613	880.0	885.0	5.0	Tr.			
		07614: <1/4% Py (disseminated); brick red-altered syenite; 3% mafics.	07614	885.0	888.0	3.0	Tr.			
		07615: 1/4% Py; ~3% white quartz, 70% salmon red, 30% mafic inclusions.	07615	941.5	945.0	3.5	Tr.			
		07616: traces of Py; 15% white quartz in reddish grey syenite.	07616	945.0	948.5	3.5	Tr.			
		07617: minor Py; ~2% quartz in mostly red- dish grey syenite (some brick red holding pyrite).	07617	948.5	953.5	5.0	Tr.			
	979	<u>END OF HOLE.</u> Casing pulled out; red painted wooden post, bearing aluminum identification tag, set into the hole collar. * Etch tube dip determinations: - 42.5°(300'), - 40.5°(600'), - 37°(900'). J. André Carrier								

AU GEOCHEMISTRY

Diamond Drill Hole no: 620-02

Township: MICHAUD

Log Summary		Geochemistry Sample				
Location (m) From To		Sample no.	Location (ft.) From To		Au (ppb)	Remarks
		620-02-01	50	82	2	
		02	82	92	1	
		03	92	149	1	
		04	149	166	10	
		05	166	201	1	
		06	201	256	1	
		07	256	294	2	
		08	294	334	2	
		09	334	359	2	
		620-02-10	359	369	2	
		11	369	375	<1	
		12	375	405	6	
		13	405	415	1	
		14	415	428	2	
		15	428	440	<1	
		16	440	463	9	
		17	463	486	4	
		18	486	495	13	
		19	495	502	1	
		620-02-20	502	530	9	
		21	530	564	8	
		22	564	583	4	
		23	583	608	6	
		24	608	634	4	
		25	634	662	12	
		26	662	699	2	
		27	699	722	1	
		28	722	732.5	<1	
		29	732.5	734	2	
		620-02-30	734	752	<1	
		31	752	754	<1	gtz veinlet & contacts
		32	754	771	1	
		33	771	797	<1	
		34	797	818	3	

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HOLE NO: 620-02 PAGE: 1 of 4

Drilled by: BRADLEY BROS. LIMITED

Property: MICHAUD BLOCK; PN-620

Latitude: 135+50N

Longitude: 274+00E

Started: 84 09 10

Township: of MICHAUD; claim # 40909, 40910

Azimuth: 150°

Dip: -45°(collar), *

Ended: 84 09 17

Logged by: J. ANDRÉ CARRIER

Élévation: ?

Length: 988 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
0	50	NW casing								
0	50	AW casing								
50	988	AQ wireline core (excellent to good recovery, good to locally poor R.Q.D.) laid into 39 boxes.								
0	50	<u>OVER BURDEN</u> Gravel & boulders.								
50	988	<u>PORPHYRITIC SYENITE</u> Variable grain size, % phenocrysts, and color tinges. Usually massive appearance. Pinkish to reddish grey, 5-15% subhedral medium to coarse-grained feldspar phenocrysts usually lighter color (to whitish locally). Rock reddish locally (mostly from 370 to 406, also near 802). (81.5-92.0): finer groundmass abundant, porphyritic (fine to coarse phenoc); 40°C/A at upper contact, some inclusions of syenite. (370-375, 800-813): finer grained & reddish. (496-501): mafic inclusion.								

Falconbridge Ltd.

HOLE NO: 620-02

PAGE: 2 of 4

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		<p>(404-416, 431-440, near 474 & 485, partly 961-982): reddish.</p> <p>(565-578, 618-625, 668-678, 747-752): somewhat reddish.</p> <p>(733.5-734.5): purple blackish inclusion (?) somewhat laminated; 75°C/A near lower contact, 75-80°C/A partly sheared upper contact.</p> <p>(~840-855): wuggy light salmon syenite with reddish coarse feldspar phenocrysts.</p> <p>(871.5-874, 882.5-884, 913-914): pinkish brownish porphyritic felsite (younger than enclosing syenite).</p> <p>From less than 1 to 2% quartz stringers and/or veinlets here and there. Quartz veinlet from 752.5-753.5.</p> <p>Not much sulfides usually.</p> <p>Lost core: 396-397, 398.5-399, 681-681.5, 753-753.5, 797-797.5, 829-830, 852-852.5, 955.5-956, 968.5-969.</p> <p>07581: Control. 4-5% quartz stringers & segregations cutting at 45° a grayish-pinkish beige porphyritic syenite; some euhedral, mostly subhedral, feldspar phenoc. (5-10% coarse, 40-60% medium-grained). Only traces of Py.</p>	07581	160.0	165.0	5.0	Tr.			

Falconbridge Ltd.

HOLE NO: 620-02

PAGE: 3 of 4

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
		07582: Control. ~6% quartz stringers & veinlet cutting (at ~45°) light salmon to reddish porphyritic syenite; groundmass & phenocr are often partly hematized. Only traces of Py.	07582	403.0	408.0	5.0	Tr.			
		07583: Control. Dark reddish grey syenite porphyry (10-15% mafic minerals, mostly medium some coarse-grained feldspar phenocrysts); groundmass and some phenocr are hematized; slightly magnetic. Less than 1% quartz stringers. Minor Py at 836.	07583	835.0	840.0	5.0	Tr.			
		07584: ~1/2% Py (disseminated very fine-grained to mm. cubes) in pale red (partly bleached?) porphyritic syenite (20% euhedral to subhedral feldspar phenocr, often darker red than groundmass); more chloritic mafic portion 844-845; no quartz stringer; mafic minerals apparently partly destroyed; rock mass slightly carbonated in small fractures; the rock shows 5% mm. vugs or pitted holes. Non magnetic.	07584	840.0	845.0	5.0	Tr.			
		07585: >1/2% Py. Similar 07584 except no chloritic mafic portion.	07585	845.0	850.0	5.0	Tr.			

Falconbridge Ltd.

HOLE NO: 620-02

PAGE: 4 of 4

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
		07586: ~ 1/2% Py. Similar 07584 except ~2' of chloritic mafic portion	07586	850.0	855.0	5.0	Tr.			
		07587: Control. Medium to dark pinkish grey porphyritic syenite (mostly medium some coarse feldspar phenocrysts, ~20% chloritized mafic minerals in crystals & groundmass). Minor Py at 856.5 (bleached 4").	07587	855.0	860.0	5.0	Tr.			
	988	<p><u>END OF HOLE.</u></p> <p>Casings pulled out. A red painted wooden post, bearing an aluminum identification tag, was set into the hole collar.</p> <p>Etch tubes dip determinations: - 42°(300'), - 40°(600'), - 40°(900').</p> <p>J. André Carrier 84 10 23</p>								

AU GEOCHEMISTRY

Diam Drill Hole no: 620-03

Township: MICHAUD

Log Summary		Geochemistry Sample						
Location (m) From To		Rock type	Sample no.	Location (ft.) From To		Au (ppb)	Remarks	
			620-03-01	40	169	1		
			02	169	177	2		
			03	177	179.5	1995	Pink siliceous	
			04	207	211	56	pink & red	
			05	202	203	2	mafic in-	
				216	217			clusions
				222	223			
			06	179.5	234	13	less former 2	
			07	234	252.5	<1	tuff like only	
			08	234	252.5	<1	pink & red-dish only	
			09	252.5	282	79	quartz	
			620-03-10	252.5	282	4	pink & reddish only	
			11	282	312	7	mafic only	
			12	282	312	36	less former 1	
			13	312	364	46		
			14	364	386	847		
			15	386	389	378	laminated mafic	
				391.5	393			
			16	393	403	318	mafic	
			17	389	403	614	less former 1	
			18	403	410.5	1307	red & pinkish brecciated	
			19	410.5	418.0	1587		
			620-03-20	424	427	2	brick reddish	
				435	441			
				443	446			
			21	418	448	177		
			22	448	473.5	399	less next one	
			23	457	467	447		
			24	473.5	490	12	less next one	
			25	476	479.5	29	pinkish greyish brown	
				490	499			
				501.5	509			
				510.5	513.5			
			620-03-26	499	535	1	less former 1	

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HOLE NO: 620-03 PAGE: 1 of 6

Drilled by: BRADLEY BROS. LIMITED

Property: MICHAUD BLOCK; PN-620

Latitude: 121+13 N

Longitude: 317+26 E

Started: 84 09 12

Township: OF MICHAUD; CLAIM # 40917

Azimuth: 0°

Dip: -55° (COLLAR), *

Ended: 84 09 17

Logged by: MAGLOIRE BÉRUBÉ

Élévation: ?

Length: 706 FEET

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
		(NOTE: PYRITE ESTIMATES IN % BY WEIGHT)								
0	40.0	NW CASING								
0	40.0	AW CASING								
42.0	706.0	AQ WIRELINE CORE (EXCELLENT TO GOOD CORE RECOVERY, GOOD TO FAIR R.Q.D. (EXCEPTING DRILL BROKEN 1-2" PIECES) LAID INTO 28 BOXES)								
0	42.0	<u>OVERBURDEN</u> 0-40: SOIL (LITTLE GRAVEL, NO BOULDERS) NOTE: HALF THE DRILLING WATER LOST SEPT 16 (SURGED IN THE SANDY ROAD SOME 200' TO THE SW).								
42.0	177.0	<u>DIABASE (DIFFERENT FROM DIABASES IN QUEBEC)</u> DARK GREENISH GREY, MEDIUM-GRAINED, HYPIDIOMORPHIC, MASSIVE, VERY UNIFORM, MAINLY COMPOSED OF ANHEDRAL, APPLE GREEN FELDSPAR (60%), INTERSTITIAL MAGNETITE (20%) AND OF OTHER INTERSTITIAL DIRTY GREY MINERAL. TR TO 1% PYRITE 170-177: CHILLED, PASSING GRADUALLY TO FINE GRAINED AND TO APHANITIC. SOME FRACTURES FILLED WITH QUARTZ-CARBONATE - EPIDOTE (170-172) CONTACT ZONE ALSO CHARACTERIZED BY AN INCREASE IN MAGNETITE AND PYRITE AND SOME ASSIMILATION OF PINK FELDSPAR FROM THE SYENITE.	07618	172.0	177.0	5.0	TR.			

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HOLE NO: 620-3

PAGE: 2 OF 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU OZ/TON	REJECT	AVERAGE
177.0	209.0	<u>PORPHYRITIC SYENITE</u> IDIMORPHIC, PINK, VARIABLE ALTERATION, FRACTURATION AND MINERALIZATION, SHOWING SCATTERED MEDIUM-GRAINED AND WHITISH FELDSPAR PHENOCRYSTS (40%) AND DISSEMINATED OR FRACTURE FILLED, DARK GREEN CHLORITE (10-20%) IN A PINK POTASSIC FELDSPAR, GROUNDMASS WHEN ALTERATION IS NOT TO SEVERE 177.0-178.5: CONTACT PHASE, LIGHTER COLORED, SILICIFIED; THE CHLORITE BEING PARTLY REPLACED BY QUARTZ AND PYRITE (3%) 178.5-183.0: INTERMEDIATE BETWEEN ABOVE AND BELOW. LOCAL PYRITE 183.0-209.0: AS DESCRIBED IN THE ABOVE ROCK DESCRIPTION, LOW DEGREE OF ALTERATION, BRECCIATION AND MINERALIZATION 188.5-189.5: PEGMATITE DIKE 202.0-203.0: VOLCANIC INCLUSION 207.0-209.0: PARTLY PEGMATITIC 1-5% PYRITE							
			07619	177.0	182.0	5.0	TR.	0.001	Tr.
209.0	300.0	<u>ALTERED SYENITE</u> RED, HYPIDIOMORPHIC, INITIAL TEXTURE MORE OR LESS DESTROYED OR PRESERVED DEPENDING ON THE DEGREE OF ALTERATION AND FRACTURATION. THE ALTERATION SEEMS MAINLY CAUSED BY REPLACEMENT OF CHLORITE (INTERSTITIAL OR FRACTURE FILLING) BY QUARTZ AND PYRITE. THE FELDSPARS ALSO GETS MORE REDDISH (HEMATIZED AND/OR POTASH ADDED) WITH THE INTENSITY OF ALTERATION AND FRACTURATION 209.0-211.0: SILICIFIED CHLORITE PARTLY REPLACED BY QUARTZ. .5-1.5% PYRITE 211.0-216.0: 1.5-2.5% PYRITE REPLACING CHLORITE IN GRAINS OR FRACTURES 216.0-217.0: VOLCANIC INCLUSION 222.0-223.0: HYBRID, 50% VOLCANIC INCLUSIONS 2.5% FINE PYRITE 233.2-248.5: SYENITIZED VOLCANIC INCLUSION LOCALLY CUT BY YOUNGER AND FRESHER COARSE SYENITE							
			07620	207.0	211.0	4.0	TR.		
			07621	211.0	216.0	5.0	TR.		
			07622	221.0	224.0	3.0	TR.		

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HOLE NO: 620-3

PAGE: 3 of 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU OZ/TON	S (%)		
		248.5-265.0: INTENSE SILICIFICATION, CHLORITE IN GRAINS OR FRACTURES MOSTLY REPLACED BY QUARTZ. 2.5-5% PYRITE IN NESTS. PORPHIRITIC TEXTURE COMPLETELY GONE	07623 07624 07625 07626	243.5 248.5 253.0 259.0	248.5 253.0 259.0 261.0	5.0 4.5 4.0 4.0	TR. TR. TR. TR.			
		265.0: QUARTZ STRINGER, 2", 60° C/A, WELL BONDED WHITE AND DIRTY GREY.	07627	261.0	265.0	4.0	TR.			
		265.0-269.0: BRECCIATED	07628	265.0	267.0	2.0	TR.			
		267.0-268.5: ALLOTRIMORPHIC CHLORITIZED SYENITE. HIGH DEGREE OF VOLCANIC DIGESTION. 5% PYRITE WITH CHLORITE (GRAINS OR MICROFRACTURES)	07629 07630 07631	267.0 268.5 272.0	268.5 272.0 275.0	1.5 3.5 3.0	TR. TR. TR.			
		268.5-281.3: HYPIDIOMORPHIC. MODERATE REPLACEMENT. 1-2.5% PYRITE. RARE QUARTZ STRINGERS	07632 07633 07634	268.5 278.0 281.0	278.0 281.0 283.0	3.0 3.0 2.0	TR. TR. TR.			
		281.3-283.0: DARK PURPLE. MICROFRACTURES AT 45°, 10% FINE PYRITE	07635 07636	281.0 288.0	286.0 293.0	5.0 5.0	TR. TR.			
		281.3-281.5: 3' BLuish QUARTZ VEIN, 40°	07637 07638	283.0 298.0	293.0 300.0	5.0 2.0	0.01 TR.			
		285.0-299.0: HYPIDIOMORPHIC. MODERATE REPLACEMENT OF CHLORITE BY QUARTZ. .5-1.5% PYRITE. LOCALLY 25% (6")								
		299.0-300.0: DARK PURPLE DUE TO VOLCANIC DIGESTION 1-2% PYRITE								
		268.5-300: RARE QUARTZ STRINGERS OR FRACTURED								
300.0	382.0	<u>ALTERED SYENITE</u> HYPIDIOMORPHIC, RED								
		300.0-363.0: LESS ALTERED, GREEN SPOTTED, VERY UNIFORM, TR-5% PYRITE. CONTAINS SEVERAL THIN, BARREN-LOOKING QUARTZ STRINGERS ALL ALONG	07639 07640 07641	343.0 348.0 353.0	348.0 353.0 358.0	5.0 5.0 5.0	0.01 0.01 0.01		0.56	
		343.0-363.0: FRACTURE FREQUENCY INCREASES AND CHLORITE CONTENT DIMINUSHER GRADUALLY .5-1.5% PYRITE	07642 07643 07644	358.0 363.0 366.0	363.0 366.0 370.0	5.0 3.0 4.0	0.01 0.01 TR.		0.43 1.55 0.45	
		363.0-366.0: INTENSE REPLACEMENT GETTING BRICK-RED 2.5-5% PYRITE. NOT TOO MANY FRACTURES	07645 07646	370.0 374.0	374.0 378.0	4.0 4.0	TR. 0.01			
		366.0-370.0: LIGHTLY FRACTURED, BRECCIATED, 2.5% FINE PYRITE IN FRACTURES. MODERATE REPLACEMENT OF CHLORITE BY QUARTZ	07647	378.0	382.0	4.0	0.05			
		370.0-382.0: ALMOST BRICK-RED, HIGH DEGREE OF DECHLORITISATION, WELL FRACTURED (MOST MENTIONED FRACTURES ARE HEADED BY QUARTZ OR CHLORITE ALONG THIS HOLE .5-1% PY								

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HOLE NO: 620-03 PAGE: 4 OF 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU OZ/TON	S (%)	REJECT	AVERAGE
382.0	397.0	<u>ALTERED SYENITE</u> ALLOTRIMORPHIC, BRICK-RED, COMPLETELY REPLACED SEVERAL FRACTURED SEALED BY GREY QUARTZ 386.0-389.0: DARK, WELL BANDED BLUE AND PURPLE AT 40°. 5-10% PYRITE, OFTEN CUBIC. TR. MoS ₂ ? 389.0-391.5: AS DESCRIBED, 2.5% PYRITE 391.5-393.0: AS 386.0-389.0 393.0-397.0: AS DESCRIBED, .5-1.5% PYRITE	07648	382.0	386.0	4.0	0.03			
			07649	386.0	389.0	3.0	0.01	0.90		
			07672	389.0	391.5	2.5	0.02	0.40		
			07673	391.5	393.0	1.5	0.04	0.10		
			07650	393.0	397.0	4.0	0.02	0.20		
			07651	397.0	400.0	3.0	0.03	0.29		
			07652	400.0	403.0	3.0	0.03	0.09		
			07653	403.0	406.0	3.0	0.02	0.16		
			07654	406.0	410.0	4.0	0.02	1.81		
			07655	410.0	413.5	3.5	0.04	1.39	0.047	0.0435
397.0	428.0	<u>BRECCIATED SYENITE</u> ALLOTRIMORPHIC, BRICK-RED TO DARK GREEN, VARIABLE. LOST CORE: 401.5-403.0; 405.0-406.0 397.0-398.0: 50% DARK, CHLORITIZED 398.0-399.5: 10% PYRITE 399.5-403.0: HYBRID, 50% RED-BRICK BRECCIATED SYENITE, 50% CHLORITIZED SYENITE TR. -.5% PYRITE ONLY 402: 3' GREY QUARTZ VEIN 403.0-410.0: FAULT BRECCIA (IN SITU), ALL WELL SATURED BY CHLORITE AND/OR QUARTZ. LIGHT TO DARK GREY WITH GREEN AND RED TINGES. 1-10% FINELY DISSEMINATED PYRITE. 410.0-417.0: BRICK-RED, LOT OF FRACTURES HEALED BY QUARTZ (NO CHLORITE LEFT) 5% NESTED PYRITE. 417.0-424.0: DEEP RED DUE TO CHLORITE REMNANTS. HERE, LOT OF OPEN (LATE) FRACTURES 1% PYRITE OVERALL BEFORE 422.5 BUT 5% AFTER. 424.0-426.0: BRICK-RED. 5% NESTED OR CUBIC PYRITE	07656	413.5	416.0	2.5	0.15	2.26	0.055	0.1025
			07657	416.0	420.5	4.5	0.01	0.48	0.019	0.0145
			07658	420.5	424.0	3.5	0.02	0.49	0.010	0.015
			07659	424.0	426.0	2.0	0.16	1.54	0.286	0.223
			07660	426.0	431.0	5.0	0.01	0.45	0.017	0.0135
			07661	431.0	436.0	5.0	0.02	0.69		

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HOLE NO: 620-03 PAGE: 5 OF 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AJ OZ/TON	S (%)	REJECT	AVERAGE
		426.0-435.0: DEEP RED DUE TO CHLORITE REMNANTS (BASIC SYENITE). TR. .5% PYRITE LOCALLY 3%								
		426.0-426.5: BRECCIA HEALED BY QUARTZ								
		VERY GRADUAL CONTACT OVER 7'								
437.0	458.0	<u>PORPHYRITIC SYENITE</u>	07662	436.0	441.0	5.0	0.02			
			07663	441.0	445.0	4.0	0.06		0.028	0.044
			07664	445.0	449.0	4.0	0.01			
			07665	449.0	453.0	4.0	0.04	1.84		
		HYPIDIOMORPHIC, LITTLE ALTERATION, RED, WHITE DOTTED (WHITE PHENOCRYPTS). PYRITE CONTENT VARIABLE, TR-15% 453.0-454.0: 5%	07666	453.0	455.0	2.0	0.03	2.61		
			07667	455.0	458.0	3.0	0.02	1.11		
458.0	473.5	<u>BASIC SYENITE</u>	07668	458.0	463.0	5.0	0.01			
			07669	463.0	468.0	5.0	0.01			
		IDIOMORPHIC, FINE-GRAINED, DARKER RED, VERY UNIFORM. PYRITE MOSTLY IN SHORT, LIGHTER RED SECTIONS 468-473.5: 1.5-2.5% PYRITE	07670	468.0	473.5	5.5	0.08		0.035	0.0575
473.5	490.0	<u>BASIC SYENITE</u>								
		RELATIVELY FRESH, .5% PYRITE	07671	473.5	478.5	5.0	TR.			
490.0	514.5	<u>MIXED SYENITE</u>	07674	483.5	488.5	5.0	TR.			
		490.0-500.0: DEEP RED, FINE-GRAINED, FRESH, TR. PYRITE, 500.0-502.0: SYENITE PORPHYRY, MEDIUM-GRAINED, FRESH, TR. PYRITE								
		502.0-514.5: AS 490.0-500.0 503-510: LATH PORPHYRY								
514.5	535.0	<u>LATH PORPHYRY</u>								
		FRESH, 50% WHITISH PHENOCRYPTS ONE INCH LONG IN RED GROUND MASS. BARREN								
		525.0-527.0: AS BELOW, GRADUAL CONTACTS	07675	518.0	523.0	5.0	TR.			

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HOLE NO: 620-03 PAGE: 6 OF 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU OZ/TON	S (%)		
535.0	706.0	<u>BASIC SYENITE</u> DEEP RED, FINE-GRAINED, FRESH, ALMOST BARREN. SHORT SECTIONS OF PORPHYRIC PINK SYENITE CONTAINING UP TO 5% PYRITE (NOT DETAILED HERE, LACK OF TIME) 582.5-585.5: RED, MEDIUM-GRAINED, SOME PYRITE 625.0-630.0: DARK PURPLISH GREY, SYENITE LATH 638.5-643.5: REDDISH, COARSE FELDSPARS PORPHYRIC PARTLY BRECCIATED AND HEMATIZED 672.0-676.0: REDDISH, BRECCIATED AND HEMATIZED, COARSE LATH FELDSPAR PORPHYRIC	07676 07677 07678 07679 07680	555.0 582.0 625.0 638.5 672.0	560.0 584.0 630.0 643.5 676.0	5.0 2.0 5.0 5.0 4.0	TR. TR. TR. 0.01 TR.			0.73
	706	<u>END OF HOLE</u> CASINGS LEFT IN THE HOLE, AW CAP SCREWED ON, RED PAINTED WOODEN POST BEARING AN ALUMINUM IDENTIFICATION TAG, SET INTO THE GROUND NEXT TO THE CASING. *ETCHTUBE DETERMINATIONS: -52°(300'), -53°(600').								
		<i>M. A. Bérubé</i>								
		1984-10-31								

AU GEOCHEMISTRY

Diamond Drill Hole no: 620-04

Township: MICHAUD

Log Summary		Geochemistry Sample				
Location (m) From To		Sample no.	Location (ft.) From To		Au (ppb)	Remarks
			620-04-01	64		
		02	74	98	14	
		03	98	158	34	
		04	158	178	16	
		05	178	194	21	
		06	194	202	8	
		07	202	218.5	145	
		08	218.5	255.5	20	Pinkish red only
		09	218.5	255.5	6	less former /
		620-04-10	255.5	317	20	
		11	317	329.5	27	
		12	329.5	333	1	
		13	333	345	5	
		14	345	395	76	reddish dyke- lets only
		15	345	395	2	less former /
		16	395	458	75	reddish dyke- lets only
		17	395	458	12	less former /
		18	458	471	75	
		19	471	529	1450	brick red only
		620-04-20	471	529	36	less former /
		21	529	551	175	
		22	551	602.5	535	reddish only
		23	551	602.5	1218	less former /
		24	602.5	613	23	
		25	613	640	175	brick red only
		26	613	640	47	less former /
		27	640	673	601	brick red only
		28	640	673	2540	less former /
		29	673	724	162	brick red only
		620-04-30	673	724	709	less former /
		31	724	755	701	
		32	755	769	87	
		33	769	791	329	brick red only
		34	769	791	86	less former /

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HOLE NO: 620-04

PAGE: 1 OF 11

Drilled by: BRADLEY BROS. LIMITED

Property: MICHAUD BLOCK; PN-620

Latitude: 117+78 N

Longitude: 319+23 E

Started: 84 09 18

Township: OF MICHAUD; CLAIM #40318, 40917

Azimuth: 0°

Dip: 55°(COLLAR), *

Ended: 84 10 01

Logged by: MAGLOIRE BÉRUBÉ

Elevation: ?

Length: 1391.5 FEET

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU OZ/TON		
		(NOTE: PYRITE ESTIMATES IN % BY WEIGHT							
0	60.0	NW CASING							
0	64.0	AW CASING							
64.0	1391.0	AQ WIRELINE CORE (GOOD TO RARELY POOR CORE RECOVERY) FAIR TO POOR R.Q.D.							
0	64.0	<u>OVERBURDEN</u> 0-55.0: SAND 55.0-64.0: GRAVEL							
64.0	108.0	<u>SYENITE PORPHYRY</u> 64.0-69.0: PHENOCRYPTS UP TO 1/2" LONG (LATHS) 69.0-75.0: WEAK ALTERED, SLIGHTLY FRACTURED, 1.5% PYRITE 75.0-84.0: WEAK ALTERED, SLIGHTLY FRACTURED, TR. - 1% PY 99.0-104.0: BLEACHED, WHITISH (SILICIFIED) PYRITE NIL-TR.	07741	69.0	75.0	6.0	TR.		
108.0	154.0	<u>LATH PORPHYRY</u> LOCAL AND MORE PYRITIC SECTIONS							
154.0	250.0	<u>PORPHYRITIC SYENITE</u> GREY, WITH PINKISH TINGE, FRESH. 202.0-205.0: PINK ALTERATION, TR-1% PYRITE 212.0-217.0: " " .5-1.5% " 238.0-240.0: " " .5-1.5% "							

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HOLE NO: 620-04 PAGE: 2 OF 11

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU OZ/TON
250.0	316.8	<u>PORPHYRITIC SYENITE</u> FRESH, MASSIVE UNIFORM, DARKER OR MORE MAFIC THAN ABOVE, MEDIUM-GRAINED SHOWING WHITE PHENOCRYSTS IN DARK FINE-GRAINED GREY GROUNDMASS (PURPLISH TINGE)					
316.8	345.5	<u>LATH PORPHYRY</u> PHENOCRYSTS NOT AS BIG AS TYPICAL ONE					
		317-320: PINK ALTERED, WELL FRACTURED, 2.5-5% PYRITE	07742	317.0	320.0	3.0	TR.
		320-327: " " , LESS " , 1.5-2.5% "	07743	320.0	323.0	3.0	TR.
		327-332: RED " , STRONG FRACTURATION 2.5% "	07744	323.0	327.0	4.0	TR.
		332-345.5: ALMOST FRESH	07745	327.0	332.0	5.0	TR.
345.5	521.0	<u>PORPHYRITIC SYENITE</u> AS 250.0-316.8, ALMOST FRESH					
		376.0-377.0: PINK ALTERED, SLIGHTLY FRACTURED, 5-2% PY	07746	376.0	380.0	4.0	TR.
		381.0-383.0: " " " " " "	07747	380.0	383.0	3.0	TR.
		394.0-395.0: " " " " 15% PY	07748	394.0	396.0	2.0	0.01
		395.0-396.5: BLEACHED?, PALE PINK	07749	409.0	413.5	4.5	0.02
		409.0-410.0 25% MAGNETITE OR TOURMALINE? 2.5% PY	07750	413.5	417.0	3.5	TR.
		413.5-417.0: PINK ALTERED, SLIGHTLY FRACTURED, 2.5% PY	07751	424.0	427.0	3.0	TR.
		424.0-431.0: STRONGLY FOLIATED 35° CARBONATED, 5% PYRITE (SHEARED ZONE?)	07752	427.0	431.0	4.0	NIL
		443.0-446.0: PINK ALTERED, LITTLE FRACTURATION, 5% PYRITE IN FIRST FOOT	07753	443.0	446.0	3.0	TR.
		458.0-460.0: PINK ALTERED, SLIGHTLY FRACTURED, 5% PYRITE	07754	458.0	460.0	2.0	TR.
		492.0-497.0: PINK ALTERED, SLIGHTLY FRACTURED 2.5-5% PYRITE	07757	492.0	497.0	5.0	0.02
521.0	550.0	<u>SYENITE PORPHYRY</u> 50% COARSE WHITE FELDSPAR IN MEDIUM-GRAINED PINK GROUNDMASS, MORE OR LESS FRACTURED, .5-2.5% PYRITE					
		551.0-552.0: 50% DIRTY QUARTZ CEMENTING SYENITE FRAGMENTS					

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HOLE NO: 620-04 PAGE: 3 of 11

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH		AS OZ/TON	REJECT	AVERAGE
550.0	578.0	<u>PORPHYRITIC SYENITE</u> PINK, 30% MEDIUM GRAINED FELDSPAR IN PINK FINE GRAINED GROUND MASS. .5-1.5% PYRITE FINELY DISSEMINATED ALL ALONG. SOME GREYISH (SILICIFIED?) SECTIONS: 551.5-555.0 564.0-566.0	07758 07759	551.5 563.0	555.0 567.0	3.5 4.0		0.04 0.01		
578.0	602.0	<u>PORPHYRITIC SYENITE</u> RELATIVELY FRESH AND BARREN								
602.0	613.0	<u>VOLCANIC INCLUSION</u> RELATIVELY UNIFORM, DARK GREEN, PINK (FELDSPAR) AND GREEN (EPIDOTE) SPOTTED								
613.0	623.0	<u>PORPHYRITIC SYENITE</u> RELATIVELY FRESH AND BARREN								
623.0	626.0	<u>VOLCANIC INCLUSION</u> EXCEPT FOR 624-625 (AS BELOW)								
626.0	715.0	<u>PORPHYRITIC SYENITE</u> PINK, MODERATELY FRACTURED SLIGHTLY PYRITIC (.5-2.5%) BEGINNING OF A MAIN ALTERATION ZONE? 626.0-631.0: BRICK RED ALTERED 631.0-635.0: 25-50% PYRITE 636.0-637.0: 20% QUARTZ VEIN MATERIAL 637.0-655.0: BLACK HAIRLINE TEXTURE, TOURMALINE? .5% PY 655.0-663.0: REDDER, MORE FRACTURED, 2.5-5% PYRITE 663.0-666.0: BRICK-RED ALTERED, 2.5-5% PYRITE ALSO QUARTZ FILLING FRACTURES 666.0-673.0: RED ALTERED, .5-2.5% PYRITE 667.5: BRICK RED OVER 6" 673.0-684.0: PINK (LOW) ALTERED, DARK DOTTED								

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HOLE NO: 620-04 PAGE: 4 of 11

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton	REJECT	AVERAGE
			07760	631.0	635.0	4.0	0.03		
			07761	635.0	638.0	3.0	0.01		
		8912: $\leq 1/8\%$ Py (very fine-grained disseminations). Somewhat dark reddish, a little fractured & granulated; some light colored altered mafics; including one blackish matrix granulated syenite portion (10% of intersection).	8912	638.0	643.0	5.0	Tr.		
		8913: $\geq 1/8\%$ Py; similar to # 8912 (no blackish portion).	8913	643.0	648.0	5.0	0.02		
		8914: $\geq 1/4\%$ Py (fine to very fine-grained disseminations, some trains). Reddish, granulated, fractured (often chlorite coating); ~1-2% quartz stringers.	8914	648.0	653.0	5.0	0.01		
		8915: Similar to # 8914.	8915	653.0	655.0	2.0	0.05	0.04	0.045
			07762	655.0	659.0	4.0	0.13	0.112	0.121
			07736	659.0	663.0	4.0	0.07	0.068	0.069
			07763	663.0	666.0	3.0	0.04		
			07764	666.0	670.0	4.0	0.01		
			07765	670.0	673.0	3.0	0.01		
		684.0-715.0: RED (MEDIUM) ALTERED							
		688.5-690.5: BRICK RED, 2.5% PYRITE	07766	688.5	690.5	2.0	0.03		
		690.5-694.0: RED, .5-2.5% PYRITE	07767	690.5	694.0	3.5	0.02		
		694.0-705.0: LATH PORPHYRY							
		694.0-696.0: 5% PYRITE	07768	694.0	696.0	2.0	0.04		
		700.0-704.0: BRICK RED	07769	696.0	700.0	4.0	0.01		
		713.5-715.0: RED ALTERED, 2.5% PYRITE	07770	700.0	704.0	4.0	0.02		
		715.0: FAULT, 60° GAUGE							
		8925: $\sim 1/8\%$ Py (very fine-grained disseminations); mostly pinkish red siliceous looking,	8925	708.0	713.0	5.0	Tr.		

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HOLE NO: 620-04

PAGE: 5 of 11

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH		AU OZ./TON	REJECT	AVERAGE
		<i>translucent in upper half; red third quarter (with a couple of quartz stringers); purplish grey porphyritic syenite lower quarter (with some quartz stringers).</i>								
715.0	724.0	<u>GREY SYENITE</u> <i>Pink but more spotted dark green, almost fresh and barren. Local alteration & pyrite.</i>	07771	713.0	715.5	2.5		0.05	0.026	0.038
715.0	724.0	<u>GREY SYENITE</u> <i>B916: > 1/8% Py (disseminated in upper third); ~2% quartz stringers; purplish grey por- phyritic syenite with local red alteration.</i>	8916	715.5	720.5	5.0		0.01		
724.0	755.0	<u>LATH PORPHYRY</u> <i>PINK BUT MORE SPOTTED DARK GREEN ALMOST FRESH AND BARREN. LOCAL ALTERATION AND PYRITE</i>								
755.0	769.0	<u>PORPHYRITIC SYENITE</u> <i>PHENOCRYSTS UP TO 1 1/2", LOW ALTERED, .5-1.5% PY</i>								
769.0	782.0	<u>PORPHYRITIC SYENITE</u> <i>ALMOST FRESH, PINKISH GREY, DARK SPOTTED, BARREN LOOKING</i>								
782.0	786.0	<u>LATH PORPHYRY</u> <i>766.0-769.0: PINK ALTERED</i>								
782.0	786.0	<u>SYENITE PORPHYRY</u> <i>Normal</i>								
		<i>Fresh, barren.</i>								
		<i>B917: ~ 1/8% Py (fine to very fine-grained disse- minations), mostly in lowest foot; pur- plish grey porphyritic syenite (with 1% quartz stringers), except lowest foot of brick red</i>	8917	782.0	786.0	4.0		0.01		

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HOLE NO: 620-04

PAGE: 6 of 11

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH		AU oz./ton	REJECT	AVERAGE
786.0	791.5	<i>feldspar porphyry with 10% gray altered mafic.</i> <u>LATH PORPHYRY</u>								
		RED ALTERED, 5% PYRITE, 5% QUARTZ VEINLETS	07772	786.0	788.5	2.5		0.06	0.040	0.05
791.5	804.0	<u>PORPHYRITIC SYENITE</u>	07773	788.5	791.5	3.0		0.03		
		DULL GREY, RELATIVELY FRESH, BARREN								
804.0	811.0	<u>PORPHYRITIC SYENITE</u>								
		RED ALTERATION, .5-1% PYRITE	07774	804.0	807.0	3.0		0.01		
811.0	816.0	<u>PORPHYRITIC SYENITE</u>	07775	807.0	811.0	4.0		0.01		
		BROKEN ROCK, BRICK-RED, BRECCIATED IN SITU, NUMEROUS OPEN FRACTURES COATED BY CHLORITE.	07776	811.0	816.0	3.0		0.05	0.046	0.048
816.0	825.0	<u>PORPHYRITIC SYENITE</u>	07777	816.0	820.0	4.0		0.02		
		RED ALTERED, .5-1.5% PYRITE	07778	820.0	825.0	5.0		0.01		
825.0	870.0	<u>PORPHYRITIC SYENITE</u>								
		PINK ALTERED, TEXTURE DESTROYED, .5% PYRITE								
		830.0-831.5: LATH PORPHYRY								
		838.0-859.0: CHLORITE-FILLED FRACTURE LONGING CORE AXIS								
		863.5-864.5: MEDIUM (RED) ALTERED, 1.5% PYRITE								
		867.0-870.0: LATH PORPHYRY								
		8918: $\leq 1/8\%$ Py (fine-grained disseminations). Dark to pale reddish grey with some red syenite.	8918	853.5	858.5	5.0		0.03		
		8919: $\geq 1/4\%$ Py (fine-grained disseminations), more abundant in lower half. Dark red granulated & fractured feldspar porphyry in upper half, grading to pale greyish red siliceous-looking lower half; a little quartz stringers & segregations near lower end.	8919	858.5	863.5	5.0		0.02		
			07779	863.5	864.5	1.0		0.136	(PULP) 0.136	0.136

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HOLE NO: 620-04

PAGE: 7 of 11

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH		AU OZ./TON	REJECT	AVERAGE
870.0	874.3	8920: $\leq 1/4\%$ Py (fine-grained disseminations & aggregates). Reddish altered purplish grey syenite in upper half, brick red lath feldspar porphyry in lower half. <u>PORPHYRITIC SYENITE</u> Almost fresh.	8920	864.5	870.0	5.5		0.03		
874.3	881.5	8921: $\leq 1/8\%$ Py (fine to very fine-grained). Dark reddish porphyritic syenite & granulated feldspar porphyry; $\sim 2\%$ chloritized mafics. <u>LATH PORPHYRY</u> Red, medium altered, 0.5% Py.	8921	870.0	874.3	4.3		0.02		
		8922: $\geq 1/2\%$ Py (fine & very fine-grained, disseminated). Brick red hematized, more or less granulated feldspar porphyry; little if any quartz stringers.	8922	874.3	879.5	5.2		0.07	0.03	0.05
		8923: $\leq 1/4\%$ Py (fine & very fine-grained). Upper 2' are identical to #8922; last 3' red altered, granulated mixture of feldspar porphyry & porphyritic syenite, holding some to minor chlorite stringers.	8923	879.5	884.5	5.0		0.01		
881.5	889.5	<u>PORPHYRITIC SYENITE</u> Red, weak altered, traces of pyrite. 8924: $\leq 1/8\%$ Py (very fine-grained disseminations). I dem #8923 last 3', except only thin coatings of chlorite in fractures.	8924	884.5	889.0	4.5		Tr.		

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HOLE NO: 620-04 PAGE: 8 of 11

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU. oz./ton	REJECT	AVERAGE
889.5	911.5	<u>LATH PORPHYRY</u> RED, STRONG ALTERED, 1-1.5% PYRITE	07780	889.5	894.0	4.5	0.05	0.039	0.0445
911.5	962.5	<u>PORPHYRITIC SYENITE</u> RED, TEXTURE MUCH DESTROYED, <.5% PYRITE 930.0-935.0: INCLUSION OF BRECCIATED SYENITE 938.0-941.0: BRICK RED ALTERED 941.0-941.5: FAULT, CONTACT 45° NICE SYENITE FRAGMENTATION IN CHLORITIZED GROUNDMASS.	07781	894.0	899.0	5.0	0.04		
			07782	899.0	903.0	4.0	0.02		
			07783	903.0	907.0	4.0	0.05	0.018	0.034
			07784	907.0	911.5	4.5	0.04		
				938.0	942.0	4.0	0.03		
962.5	976.0	<u>PORPHYRITIC SYENITE</u> ALMOST FRESH THOUGH RED, DARK SPOTTED, TR PYRITE							
976.0	1006.0	<u>PORPHYRITIC SYENITE</u> MEDIUM (RED) ALTERED, TEXTURE MUCH DESTROYED, UNIFORM, NUMEROUS OPEN FRACTURES, BARREN							

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HOLE NO: 620-04

PAGE: 9 of 11

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AJ OZ/TON
1006.0	1051.5	<u>PORPHYRITIC SYENITE</u> WEAK (PINK) ALTERED, TEXTURE STILL VISIBLE, DARK SPOTTED, UNIFORM, ALMOST BARREN, NUMEROUS OPEN FRACTURES, MANY OF THEM AT 60°. FOLIATION AT 45° AT 1006.0					
1051.0	1062.0	<u>HIGHLY SYENITIZED VOLCANIC INCLUSION OR HIGHLY CHLORITIZED SHEARED SYENITE</u> DARK GREEN WITH PINK MOTTLING, FOLIATED 45°-60°. TR. -.5% FINE CUBIC PYRITE	07785 07786	1051.0 1059.0	1057.0 1062.0	5.5 5.0	TR. NIL
1062.0	1112.0	<u>PORPHYRITIC SYENITE</u> WEAK ALTERATION, TEXTURE RECOGNIZABLE, COMMONLY DARK SPOTTED, ALMOST BARREN. 1066.5-1072.0: SYENITE PORPHYRY 1071.8: QUARTZ VEIN, 1", 60°, SPECKS OF PYRITE AND CHALCOPYRITE 1071.8-1072.3: FAULT, MIDDLY CHLORITIZED, IN FRACTURE 1073.0-1076.0: SIMILAR TO 1051.5-1062.0 (BASIC SYENITE?) SHARP CONTACTS AT 30°, 2.5% FINELY DISSEMINATED PYRITE 1076.0-1094.0: RELATIVELY FRESH 1083.0-1087.0: LATH PORPHYRY, REDDER, .5-1.5% PYRITE 1094.0-1099.0: RED ALTERATION, 2.5% QUARTZ VEINLETS, .5-1.5% PYRITE	07738 07787 07788	1073.0 1083.0 1094.0	1076.0 1089.0 1099.0	3.0 4.0 5.0	TR. TR. TR.
1112.0	1116.0	<u>LATH PORPHYRY</u>					
1116.0	1144.0	<u>PORPHYRITIC SYENITE</u> 1116-1119: MEDIUM (ALTERED) RED, 1.5% PYRITE 1119-1123.5: WEAK (PINK) ALTERED, DARK SPOTTED, TR. PYRITE 1123.5-1136.0: MEDIUM (RED) ALTERED, GREY SPOTTED (CHLORITE - SERICITE)? 1136.0-1144.0: WEAK (PINK) ALTERED, DARK SPOTTED, TR. -.5% PYRITE 1143.0-1144.0: 2.5% PYRITE	07789 07790 07791 07792 07709 07710 07711	1116.0 1119.0 1124.0 1130.0 1136.0 1140.0 1143.0 1143.0	1119.0 1124.0 1130.0 1136.0 1140.0 1143.0 1144.0	3.0 5.0 6.0 6.0 4.0 3.0 1.0	TR. TR. TR. TR. TR. TR. TR.
1144.0	1158.0	<u>QUARTZ VEIN</u> FILLING A SYENITE BRECCIA, MOSTLY GLASSY GREY QUARTZ (50-100%) LOCALLY JASPEROIDAL, FRAGMENT OFTEN ALIGNED 30° (10-45°) WITH CORE AXIS 1144.0-1147.0: 50% QUARTZ, 50% FRAGMENTS OF RED SYENITE, .5-1.5% PYRITE 1147.0-1153.0: >75% QUARTZ WITH INCLUSION, TR. -.5% PYRITE 1153.0-1158.0: 50% QUARTZ FILLING BRECCIATED SYENITE, 1-2.5% PYRITE	07712 07713 07714 07715 07716	1144.0 1147.0 1150.0 1153.0 1156.0 1156.0	1147.0 1150.0 1153.0 1156.0 1158.0	3.0 3.0 3.0 3.0 2.0	0.01 0.01 TR. 0.01 0.01

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HOLE NO: 620-04

PAGE: 10 of 11

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AS OZ/TON
1158.0	1173.5	<u>BRICK RED SYENITE</u> HIGHLY BRECCIATED IN SITU, STRONG PINK ALTERATION AND 210% GREY QUARTZ FILLING BRECCIA. PYRITE, LOW, TR -5%	07717	1158.0	1162.0	4.0	0.01
			07718	1162.0	1166.0	4.0	0.01
1173.5	1183.5	<u>BRECCIATED SYENITE</u> BRECCIATED (MAINLY IN SITU) GRADUAL INCREASE IN GREY QUARTZ FILLING (20%)	07719	1166.0	1170.0	4.0	TR.
			07720	1170.0	1173.5	3.5	0.01
			07721	1173.5	1177.0	3.5	0.01
			07722	1177.0	1180.0	3.0	0.01
1183.5	1205.5	<u>FAULT BRECCIA</u> SUBANGULAR SYENITE FRAGMENTS 1183.5-1196.0: 30%-50% INTER FRAGMENTAL GREY QUARTZ 5% DISSEMINATED PYRITE 1196.0-1205.5: 50% INTER FRAGMENTAL AND FRACTURE FILLING CHLORITE, CARBONATE (FELDSPAR) SISTOSITY(?) OR ALIGNMENT AT LOW ANGLE WITH CORE AXIS, 2.5% DISSEMINATED PYRITE, 1198.0-1199.0: 2.5-5% CHALCOPYRITE	07723	1180.0	1183.5	3.5	0.01
			07724	1183.5	1187.0	3.5	0.01
			07725	1187.0	1190.0	3.0	0.01
			07726	1190.0	1193.0	3.0	0.01
			07727	1193.0	1196.0	3.0	0.01
			07728	1196.0	1197.5	1.5	0.03
			07729	1197.5	1199.0	1.5	0.03
			07730	1199.0	1202.0	3.0	0.03
1205.5	1226.0	<u>SYENITE</u> INTENSE ALTERATION (BRICK-RED), INTENSE FRACTURATION (FILLED BY CALCITE AND QUARTZ), 5-2.5% DISSEMINATED PYRITE	07731	1202.0	1205.5	3.5	0.02
			07732	1205.5	1210.0	4.5	0.01
			07733	1210.0	1214.0	4.0	0.03
			07740	1214.0	1218.0	4.0	0.04
			07734	1218.0	1222.0	4.0	0.02
1226.0	1245.0	<u>SYENITE</u> MODERATE (THOUGH VARIABLE) ALTERATION GENERALLY RED FINER GRAINED AND DARK SPOTTED WHEN LESS ALTERED. TR - 5% PYRITE IN LESS ALTERED SECTIONS, 1-2.5% IN OTHER PARTS. LESS ALTERED: 1226.0-1230.0; 1233.0-1236.0 1239.0-1242.0: CONTAINS SHORT CHLORITIZED SECTIONS (VOLCANIC FRAGMENTS?) 30%.	07735	1222.0	1226.0	4.0	0.01
			07793	1226.0	1230.0	4.0	TR.
			07794	1230.0	1233.0	3.0	TR.
			07795	1233.0	1236.0	3.0	NIL
			07796	1236.0	1239.0	3.0	TR.
			07797	1239.0	1242.0	3.0	TR.
1245.0	1315.0	<u>SYENITE</u> RATHER WEAK ALTERATION, FRACTURATION AND MINERALIZATION VERY UNIFORM ALL ALONG. SOME RED AND EVEN BRICK-RED PYRITIZED SECTIONS AS 1308.5-1311.0; 1313.0-1315.0	07798	1308.5	1312.0	3.5	0.01
			07799	1312.0	1315.0	3.0	TR.
1315.0	1338.5	<u>SYENITE</u> ALMOST FRESH, SLIGHTLY PORPHYRITIC, DARK SPOTTED, GREYISH PINK 1329.5-1322.5: 1.5% PYRITE IN PSEUDO-PHENOCRATIC TEXTURE (LATH PORPHYRY?)					

Falconbridge Ltd.

HOLE NO: 620-04

PAGE: 11 of 11

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH		AJ 02/102		
1338.5	1367.0	<u>SYENITE</u> PORPHYRITIC, FRESH, GREY WITH PINK TINGE, TR. PYRITE 1357.0: 2.5% PYRITE OVER 3" IN DYKE OR ALTERATION ZONE								
1367.0	1371.5	<u>SYENITE</u> PORPHYRITIC, MODERATE ALTERATION, RED, SOME FRACTURATION, 1.5-2.5% DISSEMINATED CUBIC PYRITE	07873	1367.0	1371.5	4.5		0.04		
1371.5	1391.5	<u>SYENITE</u> PORPHYRITIC, ALMOST FRESH AND BARREN, LOCAL FRACTURATION AND PYRITE UP TO 0.5% 1379.0-1381.0: LATH PORPHYRY								
	1391.5	<u>END OF HOLE</u> CASINGS LEFT IN THE HOLE, AW CAP SCREWED ON, RED PAINTED WOODEN POST, BEARING ON ALUMINUM IDENTIFICATION TAG, SET INTO THE GROUND NEXT TO THE CASING *ETCH TUBE DETERMINATIONS: - 53°(300'), -53°(600'), -47°(900'), -49°(1200'), 46°(1390')								
		<i>M. A. B. B. B.</i> 05-01-10								

Falconbridge Ltd.

HOLE NO: 620-05 PAGE: 1 of 9

Drilled by: BRADLEY BROS. LIMITED

Property: MICHAUD BLOCK; PN-620

Latitude: 125+50N

Longitude: 330+00E

Started: 84 09 18

Township: of MICHAUD; claim # 40919, (40920?)

Azimuth: 180°

Dip: -45° (collar), *

Ended: 84 09 22

Logged by: J. ANDRÉ CARRIER

Élévation: ?

Length: 788 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
0	200	NW casing.								
0	216	AW casing.								
218	788	AQ wireline core (good to locally fair core recovery, fair to locally poor R.Q.D.) laid into 24 boxes.								
0	216	<u>OVER BURDEN</u>								
216	283	<u>CHLORITIZED GREENSTONE</u> chloritized (& possibly biotitized), fine-grained, dark greenish black; mostly former volcanics, probably some metasediments. Magnetic generally. Reddish felsic intervals, often not much magnetic below 225: 220-225, 60% of 247-254, 258.5-260.5, 40% of 268-271, 50% of 273-275.5, 65% of 277-283. 6" brecciated (some gouge): 280.5-281. Minor to 1/2% Py in several reddish intervals. Lost core: 224.5-226, 237-238, 281-281.5. 07927: <1/4% Py; 4.5' of core recovered								
			07927	220.0	225.0	5.0	Tr.			

Falconbridge Ltd.

HOLE NO: 620-05 PAGE: 2 of 9

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		07928: Traces of Py; 3' porphyry, 1' chloritized mafic rock; 4' of core recovered. Control.	07928	225.0	230.0	5.0	NIL			
		07929: < 1/4% Py; 3' reddish, 2' blackish.	07929	276.0	281.0	5.0	NIL			
		07930: minor Py; 1' brecciated & gony 50°C/A, 1' porphyry.	07930	281.0	283.0	2.0	Tr.			
283	353.5	<u>BRICK RED SYENITE PORPHYRIES</u> Mostly hematite altered lath feldspar porphyry, texture partly destroyed; non magnetic; also sericitized & chloritized mafic-rich over the last 5 feet. At 288, 8" of mafic-rich schistose breccia (~45°C/A). Night average 1% Py over fair lengths, especially near lower end. At 310, 313-317.5, 326-334.5, 338.5-342: chloritized greenstone inclusions & intervals; dark greenish to black, magnetic. Reddish intervals are sometimes magnetic near contacts.								
		07931: > 1/2% Py (fine-grained disseminated) in red porphyry.	07931	283.0	287.7	4.7	Tr.			
		07932: ~1/2% Py; buff & red porphyry; 50°C/A on a 6" lapilli tuff?	07932	287.7	290.7	3.0	Tr.			
		07933: > 1/4% Py; red porphyry; last foot brecciated.	07933	290.7	295.5	4.8	Tr.			

Falconbridge Ltd.

HOLE NO: 620-05

PAGE: 3 of 9

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		07934: ~1/2% Py; red porphyry.	07934	295.5	300.0	4.5	Tr.			
		07935: <1/4% Py; red porphyry.	07935	300.0	303.0	3.0	Tr.			
		07936: ~1/4% Py; red porphyry with coarse feldspar & grey mafic.	07936	303.0	308.0	5.0	0.01			
		07937: ~1/4% Py; 6" red, 8" mafic in greyish pink.	07937	308.0	313.0	5.0	Tr.			
		07938: traces of Py; 6" greyish white felsic in chloritized mafic rock.	07938	313.0	318.0	5.0	Tr.			
		07939: ~1/4% Py; pinkish red porphyry	07939	318.0	323.0	5.0	Tr.			
		07940: <1/4% Py; pinkish red porphyry	07940	323.0	326.0	3.0	Tr.			
		07941: 1/2% Py; pinkish red porphyry	07941	334.0	338.0	4.0	Tr.			
		07942: minor Py; ~1' pinkish grey, 4' chlori- tized mafic rock.	07942	338.0	342.0	4.0	Tr.			
		07943: >1/4% Py; ~1' pinkish grey, 4' reddish.	07943	342.0	347.0	5.0	Tr.			
		07944: <1/4% Py; red porphyry.	07944	347.0	351.0	4.0	NIL			
		07945: <1/4% Py; red porphyry.	07945	351.0	354.0	3.0	Tr.			
353.5	367	<u>BASIC SYENITE</u> Purplish, blackish grey; slight hematiza- tion; minor Py only.								
		07946: traces of Py; grey felsic with mafic. Control.	07946	354.0	359.0	5.0	Tr.			
367	382.5	<u>CHLORITIZED GREENSTONE</u> ~10% reddish, pinkish intervals								

Falconbridge Ltd.

HOLE NO: 620-05

PAGE: 4 of 9

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
382.5	451.5	<u>PEGMATITIC LATH PORPHYRIES</u> 80% grey (mafic?) syenite from 393.5 to 398, abundant grey altered mafics from 402 to 420. Over 1% Py average in last 20 feet and approximately 2% Py over last 5 feet. 07947: minor Py; reddish porphyry. Control. 07948: ~1/4% Py (very fine-grained); 3' grey fine-grained, 1.5' red. Control. 07949: ~1% Py (disseminated); red altered lath feldspar porphyry. 07950: ~1% Py; idem 07949. 07951: >1% Py; idem 07949.	07947 07948 07949 07950 07951	388.6 393.3 436.5 441.0 446.0	393.3 397.8 441.0 446.0 451.0	4.7 4.5 4.5 5.0 5.0	Tr. Tr. 0.01 0.01 0.01			
451.5	480	<u>DYKE ROCK (?)</u> Medium grey, foliated, finely laminated in places; quite magnetic. Holding reddish & blackish inclusions & intervals; might con- tain several % of very fine-grained pyrite over fair lengths. 07952: some Py in 2' of red; 3' grey fine-grained.	07952	475.5	480.3	4.8	Tr.			
480	492.5	<u>BRICK RED LATH PORPHYRY</u> Redder portions containing up to 1% Py. 07953: ~1/2% Py; in red altered feldspar por- phyry.	07953	480.3	483.5	3.2	Tr.			

Falconbridge Ltd.

HOLE NO: 620-05

PAGE: 5 of 9

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
492.5	624	07954: <1/4% Py; red lath feldspar porphyry.	07954	483.5	489.0	5.5	Tr.			
		07955: idem 07954.	07955	489.0	492.7	3.7	Tr.			
492.5	624	<u>ULTRAMAFIC ROCKS (2/3) & PORPHYRIES (1/3)</u> Mixed chloritized ultramafic rocks and grey to pink porphyries. More porphyries below 563. A little Py (~1% in reddish 613-618). Lost core: 574-575, 582-583.								
		07956: <1/4% Py (very fine-grained); grey feldspar porphyry; a little pink.	07956	565.0	568.0	3.0	0.01			
		07957: minor Py; blackish fine-grained portion (mafic).	07957	568.0	570.0	2.0	Tr.			
		07958: ~1/4% Py (disseminated); grey feldspar porphyry, some pink.	07958	570.0	574.0	4.0	Tr.			
		07959: minor Py; 1.5' grey porphyry, 3' mafic rock. 4.5' of core recovered.	07959	574.0	579.5	5.5	NIL			
624	661.5	<u>REDDISH SYENITE</u> to 632: fine-grained sericitized mafic minerals; little Py. 632-642: brick red, little mafic minerals. 642-649: chloritized volcanic rocks, some reddish felsic; schistosity, ~30-50°/A. Somewhat								

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		gony & brecciated at 644, 645, 646-647.5. 649-661.5: grayish red, more vitreous, some quartz stringers; ~1/4% fine-grained dis- seminated Py.								
		07960: minor Py; red porphyritic syenite. Con- trol.	07960	637.0	642.0	5.0	Tr.			
		07961: ~1/4% Py (very fine-grained); mixed red fine-grained syenite.	07961	648.5	653.5	5.0	Tr.			
		07962: ~1/4% Py; idem 07961.	07962	653.5	658.5	5.0	Tr.			
		07963: > 1/4% Py; idem 07961.	07963	658.5	661.0	2.5	Tr.			
661.5	701	<u>BASIC TO ULTRABASIC ROCKS</u> Bluish to greenish black, chloritized & serpentinized. Fractured closely & sutured by carbonate-talc mm. to cm. stringers which might reach 10% of the rock locally. Half a foot of reddish siliceous at 698.5 Brecciated & somewhat gony at 667-668, 681, 690, 699.5-700.5. Lost core: 680.5-681.5. 07964: minor Py; 6" felsic dykelet.								
			07964	696.5	701.0	4.5	Tr.			

Falconbridge Ltd.

HOLE NO: 620-05

PAGE: 7 of 9

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
701	788	<p><u>CHLORITIC GREENSTONE</u></p> <p>Fine-grained to very fine-grained; greenish black to blackish grey; magnetic; relatively medium hard to scratch.</p> <p>Usually unmineralized dm. reddish or grey syenitic dykelets at 706, 707, 717, 765.5, 766.5, 776.5 & 787; also from 780 to 782: medium-grained feldspar porphyry.</p> <p>Up to 1% Py locally from 701 to 719 and 732.5 to 739.5; sometimes disseminated in cm. laminae ~ 50°C/A.</p> <p>(719-725): chloritized & serpentinized basic to ultrabasic rocks (similar 661.5-701).</p> <p>(725-732.5): dark red syenitic. Including red siliceous & reddish grey (unmineralized) from 729.5 to 731.5. The rest of the rock holds ~ 1/2% Py (mostly at both ends).</p> <p>Sheared undulating upper contact: 90-50°C/A.</p> <p>(739.5-744): reddish grey syenite. Bluish grey mafic minerals (or fragments).</p> <p>(744-752): blackish grey lamprophyre. Medium-grained; foliated ~ 50°C/A; minor Py.</p> <p>(752-755): very coarse subhedral phenocrysts (50%) feldspar porphyry. Unmineralized.</p>								

Falconbridge Ltd.

HOLE NO: 620-05

PAGE: 8 of 9

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		07965: ~1/4% Py (hairline stringers).	07965	701.0	706.0	5.0	Tr.			
		07966: < 1/4% Py (hairline stringers & disseminated).	07966	706.0	711.0	5.0	NIL			
		07967: < 1/2% Py (hairline stringers & disseminated).	07967	711.0	716.5	5.5	NIL			
		07968: < 1/4% Py.	07968	716.5	720.0	3.5	NIL			
		07969: < 1/4% Py.	07969	720.0	725.0	5.0	NIL			
		07970: ~ 1/2% Py (disseminated & aggregated).	07970	725.0	729.5	4.5	NIL			
		07971: < 1/4% Py (disseminated & aggregated at lower end).	07971	729.5	732.5	3.0	Tr.			
		07972: ~ 1% Py (fine-grained disseminated in streaks).	07972	732.5	734.3	1.8	Tr.			
		07973: < 1/4% Py (disseminated & hairline stringers).	07973	734.3	739.3	5.0	NIL			
		07974: minor Py.	07974	739.3	744.0	4.7	NIL			
		07975: < 1/8% Py.	07975	744.0	749.0	5.0	NIL			
		07976: ~ 1/8% Py.	07976	749.0	752.0	3.0	NIL			
		07977: < 1/8% Py.	07977	752.0	755.0	3.0	NIL			
		07978: < 1/4% Py (mostly in upper third).	07978	755.0	760.0	5.0	Tr.			
		07979: ~ 1/4% Py (mostly in upper third).	07979	760.0	765.0	5.0	Tr.			
		07980: > 1/4% Py (some also in reddish at 766.5).	07980	765.0	770.0	5.0	Tr.			
		07981: ~ 1/4% Py (mostly in carbonate stringer at 773.5).	07981	770.0	775.0	5.0	Tr.			
		07982: ~ 1/4% Py.	07982	775.0	780.0	5.0	NIL			
		07983: minor Py.	07983	780.0	782.0	2.0	NIL			

Falconbridge Ltd.

HOLE NO: 620-05

PAGE: 9 of 9

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
	700	<p><u>END OF HOLE</u></p> <p>Casing pulled out; a red painted wooden post, bearing an aluminum identification tag, was set into the hole collar.</p> <p>Etch tube dip determinations: - 44.5° (300'), - 40° (600').</p> <p>J. André Carrier 84 10 25</p>								

Falconbridge Ltd.

HOLE NO: 620-06

PAGE: 1 of 6

Drilled by: BRADLEY BROS. LIMITED
 Started: 84 09 23
 Ended: 84 09 27

Property: MICHAUD BLOCK; PN-620
 Township: of MICHAUD; claim # 40932
 Logged by: J. ANDRÉ CARRIER

Latitude: 117+00N
 Azimuth: 180°
 Élévation: ?

Longitude: 382+00 E
 Dip: -45°(collar), *
 Length: 698 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
0	190	NW casing								
0	204	AW casing								
204	698	AQ wireline core (good to locally poor core recovery, fair to locally poor R.Q.D.) laid into 21 boxes.								
0	204	<u>OVER BURDEN</u> 0-90: sand 90-204: coarse gravel								
204	374.6	<u>CHLORITIC GREENSTONE</u> Locally quite serpentinized. Blackish; magnetic. Quite homogeneous except for talcose carbonate stringers (forming up to 10% of the rock in places). Several slickensides. More gony & brecciated (or very blocky core): 288-291, 308-309, 326-331, at several places from 334-346, 357, 374.6. Little trains of Py grains following some stringers & fractures.								

Falconbridge Ltd.

HOLE NO: 620-06

PAGE: 2 of 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		07686: minor Py; 10% carbonate stringers (mostly one subparallel to core axis at 249-249). Control	07686	245.0	250.0	5.0	Tr.			
		07687: <1% Py (cubic; some disseminated, most of it following fractures & stringers); ~2-3% carbonate stringers.	07687	292.0	297.0	5.0	Tr.			
374.6	448.0	<u>CHLORITIZED LAVAS (& TUFFS)</u> Intermediate to basic lavas, locally epidotized; some tuffaceous metasediments. Magnetic. Greenish grey to ~420, bluish grey thereafter. Local Py; up to 5% mm. carbonate stringers. (374.6-379.5): mm. to cm. laminated greenish grey tuffs. ~ bedding: ~75°/A.								
		07688: ~1% Py (following some laminae & disseminated); possibly somewhat brecciated.	07688	374.6	379.5	4.9	0.01			
		07689: < 1/2% Py (trains of grains here & there). Control. 4.5' of core recovered.	07689	390.0	395.0	5.0	Tr.			
		07690: ~1/2% Py (disseminated & following some laminae); bluish grey probable andesite; up to 1/3 tuffaceous meta-sediments. Lost core: 394.5 - 395.5.	07690	443.0	448.0	5.0	0.01			

Falconbridge Ltd.

HOLE NO: 620-06

PAGE: 3 of 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton	PULP	REJECT	AVERAGE
448.0	458.0	<p><u>PORPHYRITIC FELSITE</u></p> <p>Reddish grey, siliceous-looking; darker portions gradually reaching fine to medium grained syenite.</p> <p>Two inches of gony breccia at upper contact (calcite-bearing, some Py also) 90°/A; lower contact 60°/A.</p> <p>~2% Py (fine-grained cubes, disseminated; some aggregates).</p> <p>07691: see description above.</p> <p>07692: see description above.</p>								
			07691	448.0	453.0	5.0	Tr.			
			07692	453.0	458.0	5.0	0.24	0.19	0.28	0.2475
458.0	479.0	<p><u>CHLORITIC & SERPENTINIZED GREENSTONE</u></p> <p>Greenish black chloritized & serpentitized basic to ultrabasic rocks. Up to 3% hairline to mm. white carbonate stringers.</p> <p>Magnetic and quite homogeneous to 474.5; thereafter, little magnetic and granular brecciated (with local siliceous buff to reddish admixture).</p> <p>Possible former bedding and average schistosity approximately from 40° to 70°/A.</p> <p>Some fine disseminations and aggregates of Py (locally close to 1%).</p>								

Falconbridge Ltd.

HOLE NO: 620-06

PAGE: 4 of 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
		07693: ~ 1/8% Py (fine-grained disseminated, mostly in the upper end)	07693	458.0	463.0	5.0	Tr.			
		07694: ~ 1/2% Py (fine-grained disseminated and aggregates); ~ 6% reddish beige siliceous (broken-up laminations & segregations?)	07694	474.0	479.0	5.0	Tr.			
479.0	487.5	<u>REDDISH PORPHYRITIC FELSITE</u> Reddish grey (tinge of bluish in talc-carbonate stringers chloritic portions). Reddish portions are hard to scratch. Often brecciated or fractured. Medium-grained pyrite look in certain portions. Irregular lower contact ~ 45°. Average of < 1/2% Py (some aggregates in the first foot of the intersection).								
		07695: ~ 1/2% Py; ~ 6% chloritic-serpentinous portions.	07695	479.0	484.0	5.0	Tr.			
		07696: < 1/4% Py.	07696	484.0	487.5	3.5	Tr.			
487.5	494	<u>CHLORITIC GREENSTONE</u> Greenish black, locally somewhat serpentinized. Fairly magnetic. Former bedding: ~ 50°/A. Lower contact: ~ 45°. Minor to some local Py.								

Falconbridge Ltd.

HOLE NO: 620-06

PAGE: 5 of 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
494	503.5	<u>BUFF TO BROWNISH GREY PORPHYRY</u> <i>Fractured, some redder portions; >10% chloritized (and epidotized or sericitized) mafics often in slips; trace of calcite in stringers.</i>								
		07697: ~1/4% Py (fine-grained disseminated).	07697	494.0	499.0	5.0	Tr.			
		07698: ~1/2% Py (fine-grained disseminated & aggregates); mostly in redder portions.	07698	499.0	503.6	4.6	Tr.			
503.5	~573	<u>GREEN GABBRO-BASALT</u> <i>Massive appearance, local epidote stringers, chloritized, fine to medium-grained. Somewhat chilled contacts (much larger at lower end). Unmineralized.</i>								
~573	698	<u>BASIC TO ULTRABASIC ROCKS</u> <i>Chloritized and serpentized. More highly serpentized (with suturing by 2-15% talc-carbonate fractures; also blocky core, brecciated at several places, with some gouge): ~576.5-616.5, 654.5-665.5, 682-698. Minor to some Py in places. Seam reported by driller at 582. Lost core: 581.5-582.5, 585-586, 590-591, 593-594, 663-665, 684-684.5, 693-693.5,</i>								

Falconbridge Ltd.

HOLE NO: 620-06

PAGE: 6 of 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		695-695.5, 696.5-697.5.								
		07699: Control. ~ 1/4% Py (sube, disseminated) in brecciated chloritized ultramafic cemented by 5-10% talc-carbonates.	07699	594.0	599.0	5.0	Tr.			
		07700: Control. > 1/4% Py (mostly in medium- grained portion); somewhat fractured ultramafic, ~ 5% talc-carbonates stringers & fillings.	07700	650.0	655.0	5.0	Tr.			
	698	<u>END OF HOLE.</u> Casing pulled out; red painted wooden post, bearing aluminum identification tag, set into the hole collar. * Etch tube dip determinations: -46° (300'), -43.5° (600'). J. André Carrier 84 10 16								

AU GEOCHEMISTRY

Diamond Drill Hole no: 620-07

Township: MICHAUD

Log Summary

Geochemistry Sample

Location (m)
From To

Rock type

Sample no.

Location (ft.)
From To

Au (ppb)

Remarks

NO SAMPLE WAS TAKEN

Falconbridge Ltd.

HOLE NO: 620-07

PAGE: 1 of 2

Drilled by: BRADLEY BROS. LIMITED

Property: MICHAUD BLOCK; PN-620

Latitude: 121+00 N

Longitude: 382+00 E

Started: 84 09 27

Township: of MICHAUD ; claim # 40931

Azimuth: 180°

Dip: -45° (collar)

Ended: 84 09 30

Logged by: J. ANDRÉ CARRIER

Élévation: ?

Length: 220 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
0	205	NW casing								
0	212	AW casing								
~204	212	NX core (partly hollow AQ hole section)								
212.5	220	AQ wireline core (good core recovery, fair R.Q.D.) laid into 1 box.								
0	~204	<u>OVERBURDEN</u> 0 ~ 200: sand ~200 ~ 204: gravel 212 - 213: sand 220 - ? : sand (pushing into the casing).								
204	217.5	<u>ANDESITE / BASALT</u> (probably blocks broken-in-place or local boulders) Dark to medium greenish grey; chloritized, ringing under hammer blow; slightly to non-magnetic; minor Py. 07739: < 2% Py (streaks); dark greenish grey andesite/basalt, slightly to non-magnetic.	07739	~204	212	~8.0	Tr.			

Falconbridge Ltd.

HOLE NO: 620-07

PAGE: 2 of 2

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		07754: dark green, magnetic, heavy, bearing Py streaks at upper end, stained with oil; possibly bouldery material.	07754	213.3	214.0	0.7	Tr.			
		07755: ~ 1/4% Py (fine-grained, disseminated, segregations); heavy core, ringing under the hammer.	07755	214.0	217.5	3.5	NIL			
217.5	220	<u>BOULDERY MATERIAL</u> (of mixed lithologies).								
	220	<u>END OF HOLE.</u>								
		NW casing pulled out; 130' of AW casing pulled out, ~ 80' of AW plus AW shoe lost in the hole. The hole was abandoned (due to sanding of the AW casing) and was replaced by hole # DDH 620-08 drilled from the same set-up at -53° in AZ. 180° direction. An aluminum identification tag was added to the wooden post (red painted) set into the collar of hole # DDH 620-08.								
		J. André Carrier 84 10 17								

AU GEOCHEMISTRY

Diamond Drill Hole no: 620-08

Township: MICHAUD

Log Summary		Geochemistry Sample					
Location (m) From To		Rock type	Sample no.	Location (ft.) From To		Au (ppb)	Remarks
			620-08-01	204	255.2	1	light green portions
			02	204	255.2	2	less former 1
			03	255.2	267.7	3	
			04	267.7	316.5	3	
			05	316.5	317.7	14	
			06	317.7	351.2	1	light green & skanny
			07	317.7	351.2	5	less former 1
			08	351.2	371	2	white veinlets & stringers
			09	351.2	371	5	less former 1
			620-08-10	371	382	3	
			11	382	430	2	
			12	430	445	4	
			13	445	508	2	skanny portions
			14	445	508	3	less former 1
			15	508	511	202	
			16	511	517	12	
			17	517	524	3	
			18	524	550	4	
			19	550	564	2	
			620-08-20	564	578	2	
			21	578	616.5	2	
			22	616.5	620	2	
			23	620	631	2	
			24	631	644	1	
			25	644	716.5	4	
			26	{ 716.5	{ 717	3	{ feldspar porphyries
				{ 721.5	{ 723		
			27	716.5	723	7	less former 1
			28	723	728.5	1	
			29	728.5	770	2	
			620-08-30	770	830	2	
			31	830	835	2	
			32	835	850	3	

Falconbridge Ltd.

HOLE NO: 620-08

PAGE: 1 of 7

Drilled by: BRADLEY BROS. LIMITED

Property: MICHAUD BLOCK PN-620

Latitude: 121+00N

Longitude: 382+00E

Started: 84 09 30

Township: of MICHAUD; claim # 40931, 40932

Azimuth: 180°

Dip: -53° (collar), *

Ended: 84 10 11

Logged by: J. ANDRÉ CARRIER

Élévation: ?

Length: 850 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
0	195	NW casing								
0	204	AW casing								
~199	204	NX core								
204	850	AQ wireline core (excellent to fair core recovery, good to locally poor R.Q.D.) laid into 29 boxes.								
0	~199	<u>OVER BURDEN</u> 0-190: Sand 190-197: Gravel & some boulders <u>NOTE</u> : Water seam at OVERBURDEN/BEDROCK contact.								
~199	351.2	<u>ANDESITES/BASALTS</u> Dark greenish grey with locally up to 20% yellowish greyish light green streaks, blebs, dots, stringers discoloration & patches. ~25-45% A slight schistosity; bedding at 342: ~40°/A. Somewhat to locally strongly magnetic. Chloritized and locally epidotized. Occasionally a stringer of calcite. Minor to < 1% Py in streaks and some aggregates.								

Falconbridge Ltd.

HOLE NO: 620-08

PAGE: 2 of 7

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AV oz./ton			
		Increasingly tuffaceous at depth (below ~310), often with sharny (possibly pink chert!) laminar or bands often well pyritized.								
		(255.2-267.7): gabbroic, fine to medium-grained; (or lamprophyric? also some analogies with feldspar porphyries?) a little magnetic, well chloritized, somewhat epidotized. No sulfides. Blocky core.								
		(316.5-317.7): ~15% Py in sharny band.								
		07815: <1% Py; NX core sent without splitting	07815	~199	204.0	~5.0	NIL			
		07816: ~1% Py.	07816	236.0	241.0	5.0	NIL			
		07817: ~1% Py.	07817	241.0	246.0	5.0	NIL			
		07818: 1/2% Py.	07818	251.0	255.2	4.2	Tr.			
		07819: No visible sulfides.	07819	255.2	260.2	5.0	Tr.			
		07820: No visible sulfides.	07820	260.2	265.2	5.0	Tr.			
		07821: No visible sulfides.	07821	265.2	267.7	2.5	Tr.			
		07822: >1/4% Py.	07822	267.7	272.7	5.0	Tr.			
		07823: >1/4% Py.	07823	296.0	301.0	5.0	NIL			
		07824: ~1/4% Py.	07824	301.0	306.0	5.0	Tr.			
		07825: ~1/4% Py.	07825	306.0	311.5	5.5	Tr.			
		07826: >1/4% Py.	07826	311.5	316.5	5.0	Tr.			
		07827: 10-15% Py in sharn-rich band.	07827	316.5	317.7	1.2	Tr.			

Falconbridge Ltd.

HOLE NO: 620-08

PAGE: 3 of 7

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		07828: >1/2% Py.	07828	317.7	322.7	5.0	Tr.			
		07829: <1/2% Py.	07829	322.7	327.7	5.0	Tr.			
		07830: ~1/2% Py.	07830	327.7	332.7	5.0	Tr.			
		07831: ~1/2% Py.	07831	332.7	337.7	5.0	Tr.			
		07832: ~1% Py.	07832	337.7	342.7	5.0	Tr.			
		07833: ~1/2% Py.	07833	342.7	347.7	5.0	Tr.			
		07834: ~1/2% Py.	07834	347.7	350.2	5.0	Tr.			
		07835: ~3% Py.	07835	350.2	351.2	1.0	0.01			
351.2	371	<u>FRACTURED ZONE</u> (more intense 351.2-367) Brecciated & carbonates (with calcite)-rich intersection of chloritized (frequently biotite- like), blackish (locally purplish) metasediments and tuffs; might include some pinkish cherty and shaly portions. Minor pyrite.								
		07836: ~1/2% Py (mostly at 355.5); ~15% car- bonates.	07836	351.2	356.2	5.0	Tr.			
		07837: some Py; ~8% carbonates.	07837	356.2	361.2	5.0	Tr.			
		07838: minor Py; ~20% carbonates.	07838	361.2	366.4	5.2	Tr.			
		07839: some Py; ~5% carbonates.	07839	366.4	371.0	4.6	Tr.			

Falconbridge Ltd.

HOLE NO: 620-08

PAGE: 4 of 7

FROM	TO	DESCRIPTION	SAMPLE NO.	* FROM	TO	LENGTH	Au oz./ton			
371	550	<p><u>ANDESITES/BASALTS</u></p> <p>(Similar 199-351.2)</p> <p>Slightly coarser grained; fine-grained epidote; quite sharny 374-382, 445-450, locally from 450 to 517, 517-524.</p> <p>(430-445): salt & pepper appearance, fine to medium-grained.</p> <p>(508-511): foliated chloritized (metasedimentary?) band with 10-20% streaky mm. to cm. white blabs.</p> <p>Approximate bedding: ~45°(475), ~40°(428).</p>								
		07840: some Py; >20% sharny & epidotized.	07840	371.0	376.0	5.0	NIL			
		07841: some Py; >20% sharny & epidotized.	07841	376.0	381.0	5.0	NIL			
		07842: some Py; >20% sharny & epidotized.	07842	381.0	386.0	5.0	Tr.			
		07843: ~1/2% Py; >20% sharny & epidotized.	07843	445.0	450.0	5.0	NIL			
		07844: >1/4% Py; ~20% sharny & epidotized.	07844	475.0	480.0	5.0	Tr.			
		07845: >1/4% Py; ~10% sharny & epidotized.	07845	480.0	485.0	5.0	Tr.			
		07846: ~1/2% Py; ~20% sharny & epidotized.	07846	515.0	520.0	5.0	Tr.			
		07847: <1/2% Py; >20% sharny & epidotized.	07847	520.0	525.0	5.0	NIL			
		07848: Control. Traces of Py; 5' of core recovered.	07848	544.0	550.0	6.0	Tr.			

Falconbridge Ltd.

HOLE NO: 620-08

PAGE: 5 of 7

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
550	578	<p><u>FELDSPAR PORPHYRIES IN BASALT</u></p> <p>Dark blackish green, fine-grained, somewhat fractured, in places sheared (& tuffaceous) chloritized basalt, cut by three dykes of feldspar porphyry.</p> <p>The porphyries are very much alike, except</p> <p>(550-551.5, 555.0-556.5): magnetic</p> <p>(564.0-576.0): non magnetic; containing several angular chloritized basalt fragments.</p> <p>Minor Py. Schistosity: ~45°(576.5).</p> <p>Half the core is blocky.</p> <p>Lost core: 555.5-556, 556.5-557, 558-558.5, also half a foot lost between 566 & 576.</p> <p>07849: some Py.</p> <p>07850: Control; some Py.</p> <p>07851: Minor Py; 1.0' of core recovered.</p> <p>07852: ~1/4% Py (fine-grained & stringers); 3.0' of core recovered.</p> <p>07853: ~1/2% Py (fine-grained).</p> <p>07854: < 1/4% Py (fine-grained).</p> <p>07855: minor Py; ruggy in places.</p> <p>07856: minor Py.</p> <p>07857: some Py.</p>								
			07849	550.0	551.5	1.5	NIL			
			07850	551.5	555.0	3.5	Tr.			
			07851	555.0	557.0	2.0	NIL			
			07852	557.0	560.5	3.5	Tr.			
			07853	560.5	564.0	3.5	Tr.			
			07854	564.0	569.0	5.0	Tr.			
			07855	569.0	574.0	5.0	Tr.			
			07856	574.0	576.0	2.0	Tr.			
			07857	576.0	578.0	2.0	NIL			

Falconbridge Ltd.

HOLE NO: 620-08 PAGE: 6 of 7

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
578	850	<p><u>MAFIC TO ULTRAMAFIC LAVAS</u></p> <p><i>Chloritized and serpentinized, medium bluish grey to blackish green to blackish. A little to fairly magnetic.</i></p> <p><i>Frequently, somewhat brecciated; fractured & cutured by carbonate-talcose stringers (10% in places). Schistosity (~45°) in places in the blackish; well developed 723-728.5 (35-55°C/A), 830-835 (35-55°C/A).</i></p> <p><i>Minor to some Py locally.</i></p> <p><i>(615-620): greyish greywacke, non magnetic.</i></p> <p><i>(631-644): lamprophyre-like, a little magnetic, fine to medium-grained & relatively massive (DYKE?)</i></p> <p><i>(716.5-717 & 721.5-723): grey feldspar porphyry dykelets (fractured & blocky core), somewhat magnetic.</i></p> <p>07858: —</p> <p>07859: Schistose, minor Py. Control.</p> <p>07860: Minor Py. Control.</p> <p>07861: Control.</p> <p>07862: Minor Py. Vuggy locally.</p> <p>07863: ~1/2% Py (disseminated cubes).</p> <p>07864: Minor Py.</p>								
			07858	578.0	583.0	5.0	NIL			
			07859	626.0	631.0	5.0	Tr.			
			07860	631.0	636.0	5.0	Tr.			
			07861	711.3	716.3	5.0	Tr.			
			07862	716.3	717.3	1.0	Tr.			
			07863	717.3	721.3	5.0	NIL			
			07864	721.3	723.0	1.7	NIL			

Falconbridge Ltd.

HOLE NO: 620-08

PAGE: 7 of 7

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz/ton			
		07865: Control. Schistose; minor Py.	07865	723.0	728.0	5.0	Tr.			
		07866: Control. Schistose; trace of Py.	07866	830.0	835.0	5.0	NIL			
	850	<u>END OF HOLE.</u>								
		Casing pulled out. A red painted wooden post, bearing an aluminum identification tag, was set into the hole collar.								
		* Etch tube dip determinations: -54.5°(300'), -50.5°(600'), -54°(850').								
		J. André Carrier								
		84 10 31								

AU GEOCHEMISTRY

Diam Drill Hole no: 620-09

Township: MICHAUD

Log Summary		Geochemistry Sample				
Location (m) From To		Sample no.	Location (ft.) From To		Au (ppb)	Remarks
		620-09-01	69	111	29	porphyry only
		02	69	111	22	less former 1
		03	111	166	6	porphyry only
		04	111	166	16	less former 1
		05	166	219.5	58	porphyry only
		06	166	219.5	14	less former 1
		07	219.5	263	34	porphyry only
		08	219.5	263	15	less former 1
		09	263	316	85	
		620-09-10	316	358.5	8	
		11	358.5	378.5	877	
		12	378.5	401.3	14	
		13	401.3	~420	54	
		14	~420	490	3	
		15	490	561	6	
		16	561	600	320	reddish porphyry only
		17	561	600	185	less former 1
		18	600	659	574	reddish porphyry only
		19	600	659	608	less former 1
		620-09-20	659	703	331	
		21	703	710.5	264	
		22	710.5	740	389	
		23	743	744.5	53	
		24	740	803.5	79	less former 1
		25	803.5	879	36	
		26	879	889.5	6304	
		27	889.5	959	1348	brick red only
		28	889.5	959	571	less former 1
		29	959	1010	559	brick red only
		620-09-30	959	1010	328	less former 1
		31	1010	1072	941	brick red only
		32	1010	1072	460	less former 1
		33	1072	1093	925	
		34	1093	1105	2446	

Falconbridge Ltd.

HOLE NO: 620-09

PAGE: 1 of 16

Drilled by: BRADLEY BROS. LIMITED

Property: MICHAUD BLOCK; PN-620

Latitude: 117+98N

Longitude: 315+28 E

Started: 84 10 01

Township: of MICHAUD; claim* 40910, 40917

Azimuth: 0°

Dip: -55°(collar), *

Ended: 84 10 19

Logged by: J. ANDRÉ CARRIER

Élévation: ?

Length: 1446 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
0	60	NW casing								
0	70	AW casing								
70	1446	AQ wireline core (excellent to good & rarely poor core recovery, good to locally poor R.D.D.) laid into 60 boxes.								
0	62	<u>OVER BURDEN</u> 0-60: sand 60-62: gravel with boulders.								
62	263	<u>BASIC VOLCANIC ROCKS (70%), LATH PORPHYRIES (30%)</u> Several inclusions of greenish black chloritized (maybe biotitized) volcanic rocks, usually magnetic, cut by several facies of the lath feldspar porphyry, itself rarely magnetic. Contacts may be clear cut but are sometimes wavy; portions of porphyry are often greyish to dark grey mafic contaminated; here and there the porphyry is brick red altered; the feldspar phenocrysts vary from medium to coarse-grained. Up to 2% carbonates (with calcite) stringers in the volcanic rocks, minor in the porphyries.								

Falconbridge Ltd.

HOLE NO: 620-09

PAGE: 2 of 16

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./Ton			
		<p><i>Main porphyry intersections: 75-82.5, 83.5-97, 98.5-103.5, 108.5-111, 121-126.5, 134-138, 139.5-150.5, 162-166, 167-168.5, 180-182, 192.5-199, 217.5-219.5, 234-238, 244.5-245.5, 247.5-253.5, 258-259.5.</i></p> <p><i><1% Py (disseminated, irregularly distributed; usually found in some brick red altered finely granulated portions and in whitish to pink siliceous intersections).</i></p>								
			07874	87.0	92.0	5.0	Tr.			
			07875	92.0	97.0	5.0	Tr.			
			07876	97.0	98.5	1.5	Tr.			
			07877	98.5	103.5	5.0	Tr.			
			07878	103.5	108.5	5.0	Tr.			
			07879	108.5	111.0	2.5	Tr.			
			07880	111.0	116.0	5.0	Tr.			
			07881	116.0	121.0	5.0	Tr.			
			07882	121.0	126.3	5.3	Tr.			
			07883	126.3	131.5	5.2	Tr.			
			07884	131.5	134.0	2.5	Tr.			
			07885	134.0	138.0	4.0	Tr.			
			07886	138.0	139.5	1.5	Tr.			
			07887	139.5	144.0	4.5	Tr.			
			07888	144.0	146.5	2.5	Tr.			

Falconbridge Ltd.

HOLE NO: 620-09 PAGE: 3 of 16

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
			07889	146.5	150.7	4.2	Tr.			
			07890	150.7	155.7	5.0	Tr.			
			07891	192.5	197.0	4.5	Tr.			
			07892	197.0	199.2	2.2	Tr.			
			07893	199.2	204.2	5.0	Tr.			
			07894	233.5	237.5	4.0	Tr.			
			07895	245.0	248.0	3.0	Tr.			
			07896	248.0	251.5	3.5	Tr.			
			07897	251.5	253.5	2.0	Tr.			
			07898	253.5	258.0	4.5	Tr.			
			07899	258.0	259.5	1.5	Tr.			
263	316	<u>COARSE LATH FELDSPAR PORPHYRY</u> ~30°/A upper contact; low-angle (subparallel to core axis) undulating lower contact.	07900	263.0	268.0	5.0	Tr.			
			07901	288.3	293.0	4.7	Tr.			
			07902	311.0	316.0	5.0	Tr.			
316	401.3	<u>BASIC TO ULTRA BASIC ROCKS</u> Dark grey, chloritized (and biotitized), fine-grained volcanic rocks; magnetic; some carbonate stringers (up to 3% in some sheared or brecciated places). (358.5-378.5): lath feldspar porphyry (greyish)								

Falconbridge Ltd.

HOLE NO: 620-09

PAGE: 4 of 16

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		<i>sericitized & chloritized mafic minerals); 30-40% contacts. From 368 to 369, mafic inclusion.</i>								
			07903	316.0	321.0	5.0	Tr.			
			07904	358.5	363.5	5.0	Tr.			
			07905	363.5	367.5	4.0	0.01			
			07906	367.5	369.0	1.5	0.03			
			07907	369.0	373.0	4.0	0.01			
			07908	373.0	378.0	5.0	Tr.			
401.3	~420	<u>BASIC SYENITE</u> <i>Fine to medium-grained, dark pinkish grey; minor Py. ~30% upper contact; subparallel to core axis lower contact extending from 416 to 419. Lost core: 419-421.</i>								
			07909	406.0	411.0	5.0	Tr.			
~420	561	<u>DIA BASE</u> <i>Medium to coarse-grained felsic aggre- gates widespread except near contacts which are chilled over several feet (~15% lower contact); magnetic, relatively hard to scratch.</i>								
			07910	425.0	430.0	5.0	Tr.			

Falconbridge Ltd.

HOLE NO: 620-09

PAGE: 5 of 16

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
561	659	07984: Traces of Py; control. <u>PORPHYRITIC SYENITES</u> Mixed facies of basic (somewhat feldic) syenites; pinkish greys, usually medium-grained, but often fine-grained, granulated(?) and altered portions. Several short intersections quite reddish (often adjacent to or holding white quartz stringers), including 564-564.5, 569-571.5, 593.8-594.4, 602-604, 613-614, one fourth of 620-632. Somewhat magnetic in several darker portions. Some Py spread at most places (reaching over 1% very locally).	07984	556.0	561.0	5.0	Tr.			
		07985: ~1/4% Py; 6% quartz stringers; 1' reddish.	07985	561.0	565.0	4.0	0.01			
		07986: < 1/8% Py; relatively homogeneous slightly pinkish grey.	07986	565.0	567.0	2.0	0.02			
		07987: ~1/4% Py; 10% quartz segregations and stringers; 2' reddish.	07987	567.0	571.5	4.5	0.01			
		07988: < 1/4% Py; ~2% quartz stringers.	07988	571.5	576.5	5.0	Tr.			
		07989: ~1/2% Py; greyish.	07989	576.5	581.5	5.0	0.02			
		07990: < 1/8% Py; ~1 foot reddish.	07990	612.3	617.3	5.0	0.02			
		07991: > 1/4% Py; ~2' reddish siliceous (very fine-grained); ~1% quartz veinlet.	07991	627.0	632.0	5.0	0.03			

Falconbridge Ltd.

HOLE NO: 620-09

PAGE: 6 of 16

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton				
659	803.5	<u>PORPHYRITIC FELSIC ROCKS</u> Pinkish red to medium grey, porphyritic felsitic rocks (probably syenitic composition), with some vitreous look to it. Above 700, more reddish, even several brick red portions; below 710, occasional small brick red portions. Slight reddish to ~ 740; below 740, nearly all of it is grey to dark reddish grey. Some Py (reaching < 1% locally). (703-710.5): diabase (similar to 420-561; somewhat finer-grained. The overlying two feet are a blackish feldspar porphyry (contaminated with mafics or diabase?). (743-744.5): diabase (very fine-grained matrix, ~3% greenish grey medium to coarse-grained aggregates); 40% A contacts. 07992: Minor Py; whitish siliceous (very fine-grained) 07993: ~1/4% Py; 1.5' reddish, ~8% quartz veinlets & cementing syenite fragments. 07994: < 1/4% Py; 4' reddish (partly both feldspar); minor quartz stringers. 07995: ~1/4% Py; reddish & some brick red. 07996: > 1/4% Py; 20% quartz (6" veinlet, cementing syenite fragments, stringers); 5' recovered. 07997: ~1/8% Py (upper end); ~1% quartz stringers. 07998: < 1/8% Py.									
			07992	659.0	661.0	2.0	Tr.				
			07993	666.5	671.5	5.0	0.02				
			07994	677.0	683.0	6.0	0.01				
			07995	691.0	695.5	4.5	0.01				
			07996	695.5	701.0	5.5	0.02				
			07997	701.0	703.0	2.0	0.02				
			07998	710.5	715.0	4.5	Tr.				

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HOLE NO: 620-09

PAGE: 7 of 16

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		07999: minor Py; minor quartz stringer.	07999	715.0	720.0	5.0	Tr.			
		08000: < 1/8% Py; ~2% quartz stringers.	08000	720.0	725.0	5.0	0.02			
		8001: < 1/8% Py.	8001	725.0	730.0	5.0	0.03			
		8002: < 1/8% Py; ~1/2% quartz stringers.	8002	730.0	735.0	5.0	0.02			
		8003: minor Py; ~1.5' siliceous (vitreous & lighter color).	8003	735.0	740.0	5.0	0.01			
		8004: ~1/8% Py; greyish, vitreous luster.	8004	740.0	743.0	3.0	0.01			
		8005: > 1/8% Py; ~5% quartz stringers.	8005	760.0	765.0	5.0	0.02			
		8006: < 1/8% Py; ~2% quartz stringers.	8006	765.0	770.0	5.0	0.03			
		8007: ~1/8% Py; ~3% quartz stringers.	8007	770.0	775.0	5.0	0.01			
		8008: ~1/2% Py; ~1/2% quartz stringers.	8008	775.0	780.0	5.0	0.01			
		8009: ~1/8% Py; ~2.5' reddish.	8009	794.0	799.0	5.0	Tr.			
		8010: ~1/8% Py; ~2% quartz stringers & segregations.	8010	799.0	803.5	4.5	Tr.			
803.5	879	<u>DIABASE</u> (similar 420-561) Holding dark greyish brown porphyritic feldite 861-864. 8011: No sulfides. Control.	8011	874.0	879.0	5.0	Tr.			
879	889.5	<u>QUARTZ VEIN</u> Upper two feet brownish grey felditic with some small quartz stringers, traces of chloritic breccia at lower end; last six inches are a polymictic breccia (mm. to cm. fragments)								

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HOLE NO: 620-09 PAGE: 8 of 16

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton	REJECT	AVERAGE
		<p>cemented by chlorite).</p> <p>Vein section made of 2/3 greyish quartz (fine chlorite additions?) and 1/3 white quartz; some hairline fractures with pinkish beige; sutured cm. fractures frequent. One possible speck of visible gold. Lower contact ~25% A (at 889.0); upper contact ~15% A (at 881).</p>							
		8012: minor Py; ~3% quartz stringers, 2.0' of core recovered.	8012	879.0	881.5	2.5	0.02	0.015	0.0175
		8013: traces of Py; ~2% chloritic matter.	8013	881.5	886.0	4.5	0.32	0.346	0.333
		8014: traces of Py; ~5% chloritic matter (from breccia portion); possible V.G. taken out in 4" reference sample.	8014	886.0	889.5	3.5	0.03	0.051	0.0405
889.5	~1072	<p><u>MIXED SYENITES & PORPHYRIES</u></p> <p>Greyish red to brick red syenites, medium to fine grained (sometimes granulated; occasionally holding white quartz stringers or fillings with somewhat diffuse contacts). Top half mostly grey, lower half fairly red.</p> <p>Some brick red near 892 & 938, 950-959, one third of 997-1034, some below 1045.</p> <p>Some inches of breccia (fragments cemented by chlorite) near 1007. Four inches of diabase at 1027.</p>							

Falconbridge Ltd.

HOLE NO: 620-09

PAGE: 9 of 16

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton	REJECT	AVERAGE
		8015: > 1/8% Py (mostly in redder central portion).	8015	889.5	894.5	5.0	0.07	0.050	0.06
		8908: ~1/4% Py (fine to very fine-grained dissemina- tions); <1% quartz segregations; dark red porphyritic syenite, partly altered. ~1% mafics.	8908	894.5	899.5	5.0	0.04		
		8909: < 1/8% Py (fine to very fine-grained dissemina- tions); dark red porphyritic syenite; 1-3% mafics.	8909	899.5	904.5	5.0	0.02		
		8016: < 1/8% Py; hairline quartz stringers; control.	8016	930.0	935.0	5.0	0.01		
		8017: < 1/8% Py; reddish; ~1% quartz stringers.	8017	935.0	940.0	5.0	0.01		
		8018: minor Py; 2' of brick red.	8018	949.0	954.0	5.0	0.03		
		8019: < 1/4% Py; 4' brick red granulated lath porphyry. At lower end, two inches chloritic brecciated.	8019	954.0	959.0	5.0	0.04		
		8020: ~1/8% Py (disseminated); ~4% quartz stringers; grey syenite.	8020	977.0	982.0	5.0	0.03		
		8021: < 1/8% Py; ~6% quartz stringers (diffuse contacts).	8021	982.0	987.0	5.0	0.01		
		8022: minor Py; 3' brickish red.	8022	996.0	1001.0	5.0	0.03		
		8023: minor Py; ~3' brickish red; 1' red siliceous.	8023	1001.0	1006.0	5.0	0.01		
		8024: < 1/4% Py; ~2' brickish red; 2' red siliceous; a little breccia.	8024	1006.0	1011.0	5.0	0.01		
		8025: < 1/8% Py; ~1.5' brickish red; upper end fractured.	8025	1011.0	1016.0	5.0	0.01		
		8026: < 1/8% Py; fractured and a little chloritic lath feldspar porphyry.	8026	1016.0	1021.0	5.0	Tr.		
		8027: ~1/4% Py; idem 8026.	8027	1021.0	1026.0	5.0	0.03		
		8028: > 1/4% Py; idem 8026.	8028	1026.0	1031.0	5.0	0.02		
		8029: < 1/2% Py; 1.5' brickish red	8029	1031.0	1034.0	3.0	0.08	0.05	0.065
		8030: < 1/8% Py.	8030	1034.0	1039.0	5.0	0.02		

Falconbridge Ltd.

HOLE NO: 620-09

PAGE: 10 of 16

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton	REJECT	AVERAGE
		8031: >1/4% Py; ~1.5' brickish red.	8031	1039.0	1044.5	5.5	0.05	0.03	0.04
		8032: ~1/4% Py.	8032	1044.5	1047.5	3.0	0.02		
		8033: <1/8% Py; ~1/2% quartz stringers.	8033	1047.5	1053.0	5.5	Tr.		
		8034: minor Py; 5% quartz (mostly fillings).	8034	1053.0	1058.0	5.0	0.04		
		8035: <1/8% Py; 1/3 brickish red.	8035	1058.0	1063.0	5.0	0.03		
		8036: <1/8% Py; 6 inches brick red.	8036	1063.0	1068.0	5.0	0.04		
		8037: ~1/4% Py; 2.5 feet brick red.	8037	1068.0	1072.0	4.0	0.02		
~1072	1172.5	<p><u>FRACTURED SYENITES / BRECCIA / QUARTZ VEIN</u></p> <p>Short brecciated portions spread here & there in reddish to greyish red altered syenites (more or less fractured and holding some quartz stringers with diffuse contacts).</p> <p>~30% greenish grey fine-grained chloritic altered portions from 1105 to 1114 (traces of it deeper).</p> <p>Blocky core all through.</p> <p>Main brecciated or fractured portions: 1073, part of 1076.5-1079, 1112, 1115, 1140, 1150-1151, 1156, 1160, part of 1169-1172.5. Attitudes: 0-30°A near 1077, 30°A at 1112, 35°A (& gougy) at 1150.5.</p> <p>(1093-1114): quartz vein material (55% grey quartz, 5% rock fragments & 40% white</p>							

Falconbridge Ltd.

HOLE NO: 620-09

PAGE: 11 of 16

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./TON	REJECT	AVERAGE
		<i>quartz between 1098 and 1105; 5-20% quartz invading the country rock elsewhere).</i>							
		8038: < 1/8% Py; ~ 5% quartz, 3% chlorite; most of the rock is fractured.	8038	1072.0	1077.0	5.0	0.02		
		8039: ~ 1/8% Py (in red); ~ 3% quartz, ~ 1% chlorite; half of the rock is fractured.	8039	1077.0	1082.0	5.0	0.01		
		8040: > 1/4% Py (in brick red); most of it fractured red; chlorite on slips.	8040	1082.0	1087.0	5.0	0.05	0.05	0.05
		8041: < 1/8% Py; half the rock is brickish red.	8041	1087.0	1092.0	5.0	0.02		
		8042: < 1/8% Py (very fine-grained); siliceous, some reddish.	8042	1092.0	1098.0	6.0	0.04	0.015	0.0275
		8043: minor Py; fractured greyish quartz with < cm. syenite fragments.	8043	1098.0	1102.0	4.0	0.18	0.11	0.145
		8044: traces of Py; fractured whitish quartz, some syenite fragments.	8044	1102.0	1105.0	3.0	0.02	0.014	0.017
		8045: ~ 2% Py (very fine-grained); 10% quartz, 55% greenish grey & Py-rich, 35% reddish.	8045	1105.0	1110.0	5.0	0.03		
		8046: minor Py; ~ 20% quartz with diffuse contacts, ~ 10% greenish grey, 70% reddish siliceous.	8046	1110.0	1115.0	5.0	0.02		
		8047: minor Py.	8047	1115.0	1120.0	5.0	0.02		
		8048: minor Py; half the rock is red siliceous.	8048	1120.0	1125.0	5.0	0.03		
		8049: minor Py; half the rock is red siliceous.	8049	1125.0	1130.0	5.0	0.02	0.037	0.0285
		8050: minor Py; mostly red siliceous; 4.5 feet of core recovered.	8050	1130.0	1135.0	5.0	0.07	0.04	0.055
		8051: minor Py; mostly reddish & fractured.	8051	1135.0	1140.0	5.0	0.05	0.06	0.055

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HOLE NO: 620-09

PAGE: 12 of 16

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton	REJECT	AVERAGE
		8052: < 1/8% Py; top 6 inches brecciated and greenish; fractured reddish.	8052	1140.0	1145.0	5.0	0.05	0.04	0.045
		8053: minor Py; mostly red siliceous fractured.	8053	1145.0	1150.0	5.0	0.01		
		8054: ~ 1/8% Py; upper foot brecciated; the rest brickish red.	8054	1150.0	1154.0	4.0	0.03		
		8055: ~ 1/8% Py; reddish; last foot brecciated.	8055	1154.0	1157.0	3.0	0.03		
		8056: < 1/8% Py (very fine-grained); greyish red, porphyritic.	8056	1157.0	1162.0	5.0	0.01		
		8057: ~ 1/4% Py; brick red, fractured.	8057	1162.0	1166.0	4.0	0.03		
		8058: ~ 1/8% Py; upper half fractured & 2% quartz stringers; lower half locally brecciated; all reddish 5.5' core recovered.	8058	1166.0	1172.5	6.5	0.01		
1172.5	1211	LATH FELDSPAR PORPHYRY (75%) & SYENITE (25%) Red to brick red coarse lath feldspar porphyry (crystals partly granulated & hematized); mixed with intersections of fine to medium-grained greyish red porphyritic syenite [contacts not very sharp: 1176-1181.5, 1202-1204 (brick red & fine-grained; might be granulated lath porphyry), 1205.5-1209]. Some Py, mostly in brick red (reaching up to more than 1% Py locally).							
		8059: ~ 1% Py; brickish red. 4' core recovered.	8059	1172.5	1177.0	4.5	0.05	0.04	0.045
		8060: ~ 1% Py; greyish brickish red.	8060	1177.0	1181.5	4.5	0.02		

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HOLE NO: 620-09 PAGE: 13 of 16

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton	REJECT	AVERAGE
		8061: > 1/4% Py; brickish red.	8061	1181.5	1186.5	5.0	0.07	0.07	0.07
		8062: > 1/4% Py; partly brickish red.	8062	1186.5	1191.5	5.0	0.04		
		8063: < 1/4% Py; partly brickish red.	8063	1191.5	1196.5	5.0	0.03		
		8064: ~ 1/4% Py; mostly in last foot (brickish red).	8064	1196.5	1202.0	5.5	Tr.		
		8065: < 1/2% Py (very fine-grained); fine-gr. brick red.	8065	1202.0	1204.0	2.0	Tr.		
		8066: < 1/8% Py; brickish red.	8066	1204.0	1205.5	1.5	0.01		
		8067: ~ 1/8% Py (very fine-grained); 2% white quartz stringers.	8067	1205.5	1209.0	3.5	0.02		
		8068: < 1/8% Py; brickish red, some fractured grey	8068	1209.0	1211.0	2.0	0.01		
		8910: Minor to traces of Py; reddish grey (tinge of greenish), a little magnetic, medium-grained lamprophyric syenite; somewhat brecciated; 4' of core recovered.	8910	1211.0	1216.0	5.0	NIL		
		8911: Idem # 8910.	8911	1216.0	1219.0	3.0	NIL		
1211	1224	<u>BASIC SYENITE</u> Looking somewhat lamprophyre-like (even tuff-like!); fine to medium-grained phenocr, fine-grained groundmass. Pinkish grey to grey. Minor Py. 1219-1222: laminated (25-40% A) & brecciated.							
		8069: minor Py (very fine-grained, disseminated); 5-10% red hematized fragments.	8069	1219.0	1224.0	5.0	Tr.		
1224	1292.5	<u>PORPHYRITIC SYENITE</u> Pinkish grey, medium-grained [containing reddish, whitish pink and pale brown finer groundmass material (abundant above 1235 & in the upper half of 1235-1252, rare below 1252)]; much more greyish below 1252.							

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HOLE NO: 620-09

PAGE: 14 of 16

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		<p>Hairline fracturing found everywhere, most developed in red portions.</p> <p>Py reaching 1/2% locally in red lath feldspar porphyry.</p> <p>(1235-1252): lath feldspar porphyry. Brick red altered, granulated as well as holding several portions of whitish pink finer ground-mass material in upper half. 2-4% quartz stringers. Gradual lower contact.</p> <p>(1277-1282): greenish black partly chloritized, non-magnetic, mafic (tuff?) including some inches of red siliceous and adjacent to 3' of reddish grey lath feldspar porphyry (1282-1285).</p>								
		8070: ~1/8% Py (very fine-grained); ~1% quartz stringers; mostly red siliceous.	8070	1224.0	1230.0	5.0	Tr.			
		8071: >1/8% Py (trace in fractures); grey syenite & pinkish white.	8071	1230.0	1235.0	5.0	0.01			
		8072: ~1/8% Py; pinkish white & hematized.	8072	1235.0	1240.0	5.0	Tr.			
		8073: >1/8% Py (disseminated) in red; 1/2 pinkish white siliceous, 1% quartz stringers.	8073	1240.0	1245.0	5.0	0.01			
		8074: ~1% Py (disseminated); ~2% quartz stringers; most of the rock is red hematized.	8074	1245.0	1250.0	5.0	0.01			
		8075: ~1% Py (disseminated); mostly red hematized.	8075	1250.0	1252.0	2.0	0.01			
		8076: <1/8% Py (very fine-grained); ~1/2% quartz stringers.	8076	1252.0	1255.0	3.0	Tr.			

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HOLE NO: 620-09 PAGE: 15 of 16

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton.			
		8077: < 1/8% Py (very fine-grained); ~1/2% quartz stringers.	8077	1255.0	1260.0	5.0	Tr.			
		8078: < 1/8% Py (very fine-grained); 5% quartz stringers.	8078	1260.0	1265.0	5.0	Tr.			
		8079: Control. Minor Py (in upper 6 inches).	8079	1277.0	1282.0	5.0	Tr.			
		8080: Control. Minor Py (in one chloritized stringer).	8080	1291.0	1296.0	5.0	0.01			
1292.5	1345	<u>REDDISH GREY LATH FELDSPAR PORPHYRY</u> Relatively dark reddish grey, 20-50% mm. to cm. lath feldspar phenocrysts; locally trachytic alignment. Magnetic. Lower contact is fine-grained to chilled. (1297-1298, 1343-1344): reddish. 8081: Control. Minor Py. 8082: < 1/8% Py; medium-grained. 8083: Minor Py; medium-grained; 1' reddish medium-grained, 1' grey chilled.								
			8081	1330.0	1335.0	5.0	Tr.			
			8082	1335.0	1340.0	5.0	Tr.			
			8083	1340.0	1345.0	5.0	Tr.			
1345	1446	<u>PORPHYRITIC SYENITE</u> Pinkish grey, medium-grained phenoc, holding reddish intervals mostly in upper half (1358-1359, 1362.5-1363.5, 1365.5-1369, 1371-1372, 1384-1385.5, 1394.5-1398, 1399-1402; some near 1403, 1404, 1406, 1408 & 1414). Quartz stringers are rare.								

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HOLE NO: 620-09

PAGE: 16 of 16

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz/ton			
		Minor Py in grey; up to 1/4% Py locally in red. Blocky core (frequent 1-2" pieces of core, due to the bit drilling) from 1352 to 1430. Lost core: 1372-1373.								
		8084: Control. Minor Py. Medium-grained pinkish grey.	8084	1345.0	1350.0	5.0	Tr.			
		8085: > 1/4% Py; mostly red & reddish grey.	8085	1358.0	1360.0	2.0	Tr.			
		8086: < 1/8% Py; all reddish.	8086	1365.5	1369.0	3.5	NIL			
		8087: < 1/8% Py; 1' reddish, the rest greyish.	8087	1369.0	1372.0	3.0	Tr.			
		8088: ~ 1/4% Py (disseminated); reddish lath porphyry, altered.	8088	1394.5	1398.5	4.0	0.01			
		8089: < 1/4% Py (disseminated); 1/2 reddish, 1/4 grey, 1/4 lath.	8089	1398.5	1402.5	4.0	Tr.			
		8090: < 1/8% Py (disseminated); mostly grey, 6" lath, 6" reddish.	8090	1402.5	1406.5	4.0	Tr.			
		8091: Control. Minor Py; grey porphyritic syenite; 1" diffuse quartz band (stringer?)	8091	1430.0	1435.0	5.0	Tr.			
1446		<u>END OF HOLE</u> Casings left in the hole; AW cap screwed on. Red painted wooden post, bearing an aluminum identification tag, set into the ground next to the casing. * Etch tube dip determinations: -57°(300'), -59°(600'), -58°(900'), -56°(1200'). J. André Carrier 84/11 29								

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HOLE NO: 620-10

PAGE: 1 of 4

Drilled by: BRADLEY BROS. LIMITED

Property: MICHAUD BLOCK PN-620

Latitude: 117+00N

Longitude: 380+00E

Started: 84 10 12

Township: of MICHAUD; claim # 40932

Azimuth: 180°

Dip: -45°(collar), *

Ended: 84 10 16

Logged by: J. ANDRÉ CARRIER

Élévation: ?

Length: 745 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
0	200	NW casing.								
0	218	AW casing.								
218	745	AQ wireline core (good, locally poor, core recovery; fair to locally poor R.Q.D.) laid into 24 boxes.								
0	236	FIRST TRY DRILLING:								
0	214	<u>OVER BURDEN:</u> 0-200; sand 200-214: gravel with boulders. <u>NOTE:</u> Water seam at overburden/bedrock contact caused the rods to get sanded while drilling at 236; after pulling, new casing was driven into the same hole and new drilling proceeded at 218.								
214	236	<u>ANDESITE/BASALT</u> (similar to 218-313 described below).								
218	313	<u>ANDESITE/BASALT</u> Light to dark green, some local grey; epitaxized & chloritized lavas; lighter color patches								

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HOLE NO: 620-10

PAGE: 2 of 4

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
		and streaks following hairline fractures; spots & amygdulæ locally, shaly portions & calcite bands here and there. Magnetic. Up to 5% carbonates (with calcite) stringers near lower end. A little Py (irregularly distributed): mostly near upper end.								
		8092: Control. > 1/4% Py (mostly local bands or rims; green rock.	8092	224.0	229.0	5.0	Tr.			
		8093: Control. < 1/8% Py (one interlayer); grey rock, little green.	8093	249.0	254.0	5.0	Tr.			
		8094: Control. Minor Py; 3% shaly; fractured green rock; 3% carbonates stringers.	8094	302.5	308.0	5.5	Tr.			
		8095: Control. < 1/8% Py (lower end); fractured green & grey rock; 2% carbonates stringers.	8095	308.0	313.0	5.0	Tr.			
313	322	<u>LAMPROPHYRE</u> Dark greenish grey, 1 mm mafic phenocrysts (altered hornblende?). Sheared at both ends and near 318 (~45° schistosity); massive in places. Including grey felsic porphyry from 318 to 319. Some Py (mostly near both ends).								
		8096: Control. < 1/8% Py (schistose both ends); 2' massive, 2' chloritic & brecciated.	8096	313.0	318.0	5.0	Tr.			

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HOLE NO: 620-10

PAGE: 3 of 4

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
322	676	<p>8097: Control. >1/4% Py (brecciated lower 6"); B" grey feldspar porphyry.</p> <p><u>ALTERED MAFIC & ULTRAMAFIC ROCKS</u></p> <p>Chloritized & serpentized ultrabasic lavas. Magnetic. Schistose in places; generally fractured, over 5% carbonates (with calcite) stringers at several places; soft, often talcose. Gougey (especially between 365 and 445).</p> <p>Some Py locally, minor Py usually.</p> <p>(402-408): grey feldspar porphyry; weakly magnetic. Medium-grained, somewhat foliated (~55%A). <1/8% Py (disseminated).</p> <p>(522~650): less altered, not so soft, lighter grey; moreover less stringers 522-565, 615-650.</p> <p>8098: ~1/8% Py (disseminated). Upper 1.5': chlorite schist. Control.</p> <p>8099: Control. >1/8% Py (disseminated cubes); 4% carbonates; gouge at 398.5 & 401.5.</p> <p>8100: ~1/4% Py; homogeneous feldspar porphyry.</p> <p>8121: ~1/4% Py; homogeneous feldspar porphyry.</p> <p>8101: Control. <1/8% Py; ~6% carbonates fillings; 4' of core recovered.</p>	8097	318.0	322.0	4.0	Tr.			
			8098	322.0	327.0	5.0	Tr.			
			8099	397.0	402.0	5.0	Tr.			
			8100	402.0	405.0	3.0	NIL			
			8121	405.0	408.0	3.0	NIL			
			8101	408.0	413.0	5.0	Tr.			

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HOLE NO: 620-10

PAGE: 4 of 4

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./Ton			
		8102: Control. ~1/4% Py; ~4% carbonate stringers and fillings.	8102	504.0	510.0	6.0	Tr.			
676	745	<u>MIXED MAFIC & ULTRAMAFIC ROCKS</u> (Similar to above but more mixing) Complex mixture of little altered homogeneous grey rock and softer chloritized & serpentinized (often talcose & gony) fractured rock, filled with carbonate stringers. Some Py locally, usually minor Py. Blocky core. Lost core: 672-672.5, 691-691.5, 696-697, 697.5-698, 700-700.5, 703-704, 716.5-717, 729.5-730.								
	745	8103: Control. Minor Py; 3-4% carbonate stringers & fillings. <u>END OF HOLE.</u> Casing pulled out. Red painted wooden post, bearing an aluminum identification tag, set into the hole-collar. * Etch tube dip determinations: -42.5°(300'), -42°(590'), -42°(745'). J. André Carrier 84 10 31	8103	735.0	740.0	5.0	Tr.			

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HOLE NO: 620-11

PAGE: 1 of 6

Drilled by: BRADLEY BROS. LIMITED
 Started: 84 10 16
 Ended: 84 10 19

Property: MICHAUD BLOCK PN-620
 Township: of MICHAUD; claim # 40932
 Logged by: J. ANDRÉ CARRIER

Latitude: 117°00'N
 Azimuth: 180°
 Élévation: ?

Longitude: 384°00'E
 Dip: -45°(collar), *
 Length: 697 feet

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	LENGTH	Au oz./ton			
0	190	NW casing.								
0	202	AW casing.								
202	697	AQ wireline core (excellent to fair recovery; good to locally poor R.Q.D.) laid into 20 boxes.								
0	198	<u>OVER BURDEN</u> Probably 0-190: sand 190-198: gravel with boulders.								
198	277	<u>GREEN GABBRO</u> Medium-grained, chloritized mafic, some- what magnetic. Last feet are fine-grained & the last foot is well chilled. Traces of sulfides. (220-223, most of 259-270): partly finer-grained and nearly non-magnetic; somewhat epi- dotized. 07867: Control. Medium-grained. Traces of Py. 07868: Control. Epidotized; partly finer-grained. Minor Py.	07867 07868	215.0 220.0	220.0 223.0	5.0 3.0	Tr. NIL			

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HOLE NO: 620-11

PAGE: 3 of 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
373.5	410.0	<p>8110: Traces of Py (in reddish brown gouge at 373.5); rock is chloritized, blackish, fractured; 1% carbonate stringers & fillings; 45-35% sheared lower end. Control.</p> <p><u>GABBRO - BASALT</u></p> <p>Gradual change from greenish grey medium-grained to greenish black fine-grained at lower end (last foot is blocky core); magnetic. chloritized; some carbonate stringers in the last 10 feet. Only traces of pyrite.</p>	8110	369.0	374.0	5.0	NIL			
410.0	420	<p>07911: Control.</p> <p><u>PINK PORPHYRITIC FELSITE</u></p> <p>Pinkish grey to pink; up to 20% fine to medium-grained feldspar phenocrysts in places. Films of chlorite (blackish to light grey) in several fractures. From 420-424, 10% chlorite patches filling interstices and holding some felsite fragments. Some lost core at 421. ~1/8% Py (disseminated, fine to very fine-grained and some aggregates).</p>	07911	405.0	410.0	5.0	Tr.			

Falconbridge Ltd.

HOLE NO: 620-11

PAGE: 2 of 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
277	373.5	<p>07869: Control. Chilled contact zone. Traces of Py.</p> <p><u>BASALTS</u></p> <p>Somewhat chloritized; magnetic; fine-grained. Locally blocky core and a little lost core.</p> <p>1-4% carbonates (with calcite) stringers and segregations. Some radiating long slender mafic crystals near 351.</p> <p>Brecciated in place from ~354 to 373.5; brownish black zone at 373.5 (~60% A).</p> <p>Occasional stringer or blob of pyrite; disseminated Py reaching ~ 1/2% in places.</p> <p>(295-298): Subvolcanic dyke; yellowish grey, with needles of amphibole; ~50% A upper contact, lower contact broken-up, fractured with a tinge of pink.</p>	07869	272.0	277.0	5.0	Tr.			
		07870: Control. Dyke; epidotized.	07870	295.0	298.0	3.0	Tr.			
		07871: < 1/8% Py; basalt. Two 1" carbonates (with calcite) stringers holding epidote and mafic mineral phenocrysts grown into them.	07871	330.0	335.0	5.0	Tr.			
		07872: < 1/2% Py (cube trains); basalt. Brecciated in place; fractured and sutured by 1-2% carbonate hairline stringers.	07872	355.0	360.0	5.0	NIL			

Falconbridge Ltd.

HOLE NO: 620-11 PAGE: 4 of 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton	PULP	REJECT	AVERAGE
428	560	07912: ~1/8% Py.	07912	410.0	415.0	5.0	Tr.			
		07913: <1/8% Py.	07913	415.0	420.0	5.0	0.41	0.37	0.68	0.535
		07914: 1/4% Py.	07914	420.0	425.0	5.0	0.06		Tr.	0.03
		07915: <1/8% Py.	07915	425.0	428.0	3.0	0.05		0.117	0.0835
		<u>BASIC TO ULTRA BASIC ROCKS</u>								
		<i>Greyish to greenish black, very soft; chloritized & serpentinized volcanic rocks; magnetic.</i>								
		<i>Fractured (and sheared at several places) and cemented with up to 10% carbonate (with calcite) stringers.</i>								
		<i>Several chlorite schist portions below 535 (~20 to 45°C/A).</i>								
		07916: Control.	07916	428.0	433.0	5.0	NIL			
		07917: Control, ~1/4% Py (disseminated); most of the rock is chlorite schist.	07917	555.0	560.0	5.0	NIL			
560	585.7	<u>FELSIC INTRUSIVES</u>								
		<i>To 566: grey porphyry with medium-grained feldspar phenocrysts; below 566: pinkish grey porphyritic felsite (holding ~8% chloritized mafic inclusion, mainly 566-567).</i>								
		<i>1-6% stringers of gypsum (finger-nail soft, translucent, orange pink in intersection center)</i>								

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HOLE NO: 620-11 PAGE: 5 of 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		<i>mixed with some carbonates.</i>								
		07918: traces of Py; ~1% gypsum stringers	07918	560.0	566.0	6.0	Tr.			
		07919: traces of Py; mafic inclusion, slickensides.	07919	566.0	567.0	1.0	Tr.			
		07920: traces of Py; ~6% gypsum stringers.	07920	567.0	570.7	3.7	Tr.			
		07921: traces of Py; 1/2% mafic fragments; ~1 1/2% gypsum.	07921	570.7	575.7	5.0	Tr.			
		07922: >1/4% Py (tied to mafic patches and stringers); ~1 1/2% gypsum, ~6% mafic patches.	07922	575.7	580.7	5.0	Tr.			
		07923: minor Py; ~1 1/2% gypsum stringers.	07923	580.7	585.7	5.0	Tr.			
585.7	697.5	<u>BASIC TO ULTRA BASIC ROCKS</u> (Similar to 428-560, but not so soft below 610). Quite greenish dark near 646 Radiating slender crystals (spinifex?) at 686.5.								
		07924: ~1/4% Py (fine to very fine grained cubes). Control.	07924	585.7	590.7	5.0	NIL			
		07925: minor to some Py. Control.	07925	645.0	650.0	5.0	NIL			
		07926: ~1/4% Py. Control. Slickensides.	07926	681.5	686.5	5.0	NIL			

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HOLE NO: 620-11

PAGE: 6 of 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
	697.5	<p><u>END OF HOLE.</u></p> <p>Casings pulled out. Red painted wooden post, bearing an aluminum identification tag, set into the hole collar.</p> <p>* Etch tube dip determinations: -49.5°(300'), -47.5°(600').</p> <p>J. André Carrier 84 10 31</p>								

AU GEOCHEMISTRY

Diamond Drill Hole no: 620-12

Township: MICHAUD

Log Summary		Geochemistry Sample					
Location (m) From To		Rock type	Sample no.	Location (ft.) From To		Au (ppb)	Remarks
			620-12-01	78	116	223	
			02	116	130	63	
			03	130	137.5	8	
			04	137.5	164.5	15	
			05	164.5	186.5	50	redder portions
			06	164.5	186.5	48	less former 1
			07	186.5	213	14	coarse lath phenos
			08	186.5	213	10	less former 1
			09	213	219	138	
			620-12-10	219	280	33	
			11	280	340	43	
			12	340	358	19	redder portions
			13	340	358	16	less former 1
			14	358	398	57	
			15	398	430	138	
			16	430	480	60	
			17	480	531	55	
			18	531	586	12	pale greenish grey only
			19	531	586	33	less former 1
			620-12-20	586	595	98	
			21	595	625	37	
			22	625	628	25	
			23	628	635	76	
			24	635	647.5	1	
			25	647.5	711.5	2	small mafic inclusions
			26	651	671	4	light grey porphyry
			27	647.5	711.5	143	less former 2
			28	711.5	723	110	
			29	723	749	15	small mafic inclusions
			620-12-30	723	749	10	less former 1
			31	749	761	1	
			32	761	782.5	13	
			33	782.5	834	3	
			34	834	859	8	

AJ GEOCHEMISTRY

Dian Drill Hole no: 620-12

Township: MICHAUD

Log Summary		Geochemistry Sample				
Location (m) From To		Sample no.	Location (ft.) From To		Au (ppb)	Remarks
		620-12-35	865	869.5	5	
		36	859	888.5	5	whitish grey quartz
		37	859	888.5	20	less former 2
		38	888.5	944.5	1795	felsic dykelets
		39	888.5	944.5	8	less former 1
		620-12-40	955	964	20	
		41	944.5	970	20	less former 1
		42	970	984	30	
		43	984	1003	52	coarse reddish late porphyry
		44	984	1003	28	less former 1
		45	1003	1065	14	felsic dykes
		46	1003	1065	19	less former 1
		47	1065	1138	18	felsic dykelets
		48	1065	1138	1	less former 1
		620-12-49	1138	1153	<1	
		ORIGINAL CORE OF REPEATED INTERSECTION:				
		620-12-50	84	117	176	less next 2
		51	{ 83 84 }		573	quartz veinlets
			{ 116 116.5 }			
		52	{ 100 101.5 }		6	mafic richer
			{ 125 127 }			
		53	117	130	261	less former 1
		54	130	135.5	25	pinkish beige
		620-12-55	183.5	185	89	quartzose
		56	135.5	188.5	101	less former 1
		57	190	196	34	trachytic
		58	196	200	6	fine-grained ma- fic contaminated
		620-12-59	188.5	206	15	less former 2

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HOLE NO: 620-12

PAGE: 1 of 19

Drilled by: BRADLEY BROS. LIMITED

Property: MICHAUD BLOCK; PN-620

Latitude: 99+00 N

Longitude: 304+00 E

Started: 84 10 19

Township: of MICHAUD; claim # 45152

Azimuth: 135°

Dip: -48°(collar),*

Ended: 84 10 26

Logged by: J. ANDRÉ CARRIER

Élévation: ?

Length: 1153 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
0	70	NW casing.								
0	78	AW casing.								
~76	78	NX core (combined with that of 1 st trial abandoned hole).								
78	1153	AQ wireline core (excellent to good core recovery; good R.Q.D.) laid into 51 boxes.								
0	~76	<u>OVER BURDEN</u> 0-64: sand. 64-76: gravel.								
~76	137.5	<u>REDDISH FELDSPAR PORPHYRY</u> Light red hematized, medium-grained (various facies) holding some rather dark grey (somewhat laminated: ~ 50% at 100) portions, probably of basic syenite composition. Usually non-magnetic. (116-130): more than half dark red lath feldspar porphyry (holding grey altered mafic minerals and streaky patches, bearing fine-grained pinkish beige portion 121-122, and lamprophyre-like inclusion 125.5-126). (130-137.5): rather pale greenish grey bleached (& metasomatized?) fine-grained portion.								

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HOLE NO: 620-12

PAGE: 2 of 19

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
		8393: [Whole NX core from 1 st trial and successful hole: some 10' of core]. ≤ 1/4% Py. Some reddish grey porphyritic syenite (boulder?) and lots of red loth feldspar porphyry. Locally over 1% quartz stringers and up to 1% Py filling former interstices or fracture channels; some epidote noted in places.	8393	~76	78 (2 first trial NX core)	~2	0.03			
		8407: < 1/8% Py (disseminated); control. 10% quartz veinlet & stringers; granulated and locally bleached	8407	85.0	90.0	5.0	0.03			
		8902: < 1/4% Py (very fine-grained disseminations). < 1/2 beige reddish, > 1/2 pale to medium reddish; ~1-2% quartz stringers & segregations.	8902	90.0	95.0	5.0	0.01			
		8903: Minor Py (very fine-grained). Reddish with 1/3 purplish patches mostly at lower end.	8903	95.0	100.0	5.0	0.01			
		8904: Minor Py (very fine-grained disseminations). Half purplish (in two one-foot bands).	8904	100.0	104.0	4.0	Tr.			
		8905: < 1/8% Py (very fine-grained disseminations). Pinkish red, somewhat granulated; some chlorite-bearing cracks; < 1% quartz stringers; locally laminated (55% A) near upper end.	8905	104.0	110.0	6.0	0.03			
		8906: Similar to #8905, slightly more quartz stringers.	8906	110.0	115.0	5.0	0.02			
		8907: < 1/8% Py (very fine-grained). Upper 2/5	8907	115.0	120.0	5.0	0.01			

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HOLE NO: 620-12

PAGE: 3 of 19

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz/ton			
		<i>similar to # 8905 with 2-3% quartz stringers; lower 3/10 dark red lath porphyry; inner 3/10 greenish red contact zone. 4' of core recovered.</i>								
		<i>B408: Minor Py; control. Light greenish beige to dark red; half coarse feldspar phenocrysts.</i>	<i>B408</i>	<i>120.0</i>	<i>125.5</i>	<i>5.5</i>	<i>Tr.</i>			
		<i>B409: Minor Py; control. Blackish grey lamprophyric intercession; ~60°C/A foliation.</i>	<i>B409</i>	<i>125.5</i>	<i>128.0</i>	<i>2.5</i>	<i>Tr.</i>			
		<i>B410: Minor Py; control. Light reddish grey lath feldspar porphyry; 1% quartz stringer.</i>	<i>B410</i>	<i>128.0</i>	<i>130.5</i>	<i>2.5</i>	<i>Tr.</i>			
		<i>B411: Minor Py; control. Light greenish grey fine-grained altered porphyry (sharn-like).</i>	<i>B411</i>	<i>130.5</i>	<i>135.5</i>	<i>5.0</i>	<i>Tr.</i>			
<i>137.5</i>	<i>358</i>	<u><i>ALTERED PINKISH GREY PORPHYRITIC SYENITE</i></u> <i>Fine to medium-grained feldspar phenocr; dark grey to pinkish red. More than 1% quartz stringers at several places (usually 40-60°C/A). Usually non-magnetic & minor Py. Faint foliation: 50°C/A at 344. Barber-pole reddish discoloration along quartz stringers or sutured cracks is frequent, away from the intercessions mentioned below. (186.5~196, 203-208): Reddish & pinkish coarse lath feldspar phenocr intercessions. (164.5-166.5, 172, 213-219, 340-343, 347-349): Redder, fine to medium-grained intercessions.</i>								

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HOLE NO: 620-12

PAGE: 4 of 19

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		8421: < 1/8% Py; control. ~3% quartz (including 1.5' greyish band making 50% A); some barber-pole.	8421	152.0	157.0	5.0	0.01			
		8412: Minor Py; control. ~3% quartz stringers & patches.	8412	176.5	181.5	5.0	0.01			
		8413: Minor Py; control. 4% quartz stringers & patches; half grey, half pink.	8413	181.5	186.5	5.0	Tr.			
		8414: < 1/8% Py; control. ~2% quartz; coarse lath feldspar porphyry (one foot is grey trachytic, the rest is reddish).	8414	186.5	191.5	5.0	Tr.			
		8415: Minor Py; control. ~3% quartz; coarse lath feldspar porphyry (reddish, gradual lower contact).	8415	191.5	196.5	5.0	Tr.			
		8416: < 1/8% Py; control. Dark vitreous purplish (mixing zone or partly digested inclusion; very fine to medium-grained).	8416	196.5	203.0	6.5	0.02			
		8417: < 1/8% Py; control. Vitreous-looking; coarse whitish pink fractured lath feldspar phenocrysts; 1 foot dark vitreous mixing zone.	8417	203.0	208.0	5.0	Tr.			
		8418: Minor Py; control. Some barber-pole; Pale reddish; ~8% quartz stringers & patches.	8418	227.0	232.0	5.0	Tr.			
		8419: ~1/8% Py (disseminated); control. Pinkish beige; >1% quartz stringers.	8419	250.0	255.0	5.0	Tr.			
		8420: Minor Py; control. Bluish & pinkish grey, siliceous-looking.	8420	306.0	311.0	5.0	Tr.			
		8422: Minor Py; control. <20% reddish, the	8422	353.0	358.0	5.0	Tr.			

Falconbridge Ltd.

HOLE NO: 620-12

PAGE: 5 of 19

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		<i>rest being medium to dark greys.</i>								
358	595	<u>PINKISH RED LATH FELDSPAR PORPHYRY</u> Coarse lath feldspar phenocr (local medium to fine-grained portions). Pale grey (sericitized & chloritized?) altered mafic fragment. Bleached pale greenish grey (gradually to 398, 531-534, 585-586); darker red ~ 400-430; < 1% (3% locally) quartz stringers. Tendency to foliation: 45-60°/A. <i>1/2</i> usually minor Py.								
		B423: < 1/8% Py; control. Reddish to pinkish grey coarse lath feldspar porphyry.	B423	358.0	363.0	5.0	Tr.			
		B399: Minor Py; control. Dark red; some finer-grained; shearing foliation ~ 60°/A over one foot at 409.	B399	405.0	410.0	5.0	0.01			
		B400: < 1/8% Py; control. Pinkish red coarse lath; last foot mixed medium and fine-grained.	B400	465.0	470.0	5.0	Tr.			
		B401: Minor Py; control. 1/2 medium to fine-grained; half with coarse lath; all pale greyish green.	B401	529.0	534.0	5.0	Tr.			
		B402: —	B402	575.0	580.0	5.0	Tr.			
595	635	<u>MIXED BLACKISH TO PALE PINKISH GREY FELDSPAR PORPHYRIES (INTRUSIVE TRANSITIONAL CONTACT ZONE)</u>								

Falconbridge Ltd.

HOLE NO: 620-12

PAGE: 6 of 19

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
		<p>Coarse & some medium-grained lath phenocrysts, mostly fine-grained matrix (rich in mafic minerals: blackish with more or less epidote green or pale yellowish greenish grey where chloritized & sericitized).</p> <p>Some trachytic alignment developing (found mostly in darker mafic portions). Magnetic near 623 & 627-633.</p> <p>1/2"-thick quartz stringers at 597.5 & 605.5;</p> <p>90% whitish quartz & 10% varied fragments admixture from 625.5 to 627.5.</p> <p>Minor Py getting somewhat enriched here & there.</p>								
		<p>8523: < 1/8% Py (fine-grained disseminations in fine-grained pale green patches). ~50% greys (mixed olive-black-pink); 4% quartz stringer; 30% pinkish feldspar porphyry; < 10% blackish portion.</p>	8523	595.0	599.0	4.0	0.01			
		<p>8524: Minor Py; control. Dark grey matrix (mixed black-epidote green). Some trachytic texture.</p>	8524	612.0	617.0	5.0	Tr.			
		<p>8525: < 1/4% Py (disseminated). Greyish pink (sericitized & chloritized mafics in the matrix). Probably medium bleaching of all the intersection.</p>	8525	617.0	623.0	6.0	Tr.			
		<p>8526: < 1/8% Py (disseminated). Similar to # 8525, but less bleaching.</p>	8526	623.0	625.5	2.5	Tr.			

Falconbridge Ltd.

HOLE NO: 620-12

PAGE: 7 of 19

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		8527: $\leq 1/8\%$ Py (here & there). 90% whitish quartz; fragments of pink feldspar porphyry at upper end, yellowish-green fine-grained sericitized patches in the center, blackish magnetic mafic & traces of calcite near lower end.	8527	625.5	627.5	2.0	Tr.			
		8528: Traces of Py. Mafic inclusion cut by pinkish felsic dykelet & stringers; a little calcite; black & green portions (magnetic).	8528	627.5	629.5	2.0	Tr.			
		8529: Minor Py. Upper half magnetic medium-grained (salt & pepper) black mafic grains in light purplish felsic; lower half pinkish grey lath feldspar porphyry with 4" of mafic.	8529	629.5	635.0	5.5	Tr.			
635	647.5	<u>BASIC DYKE</u> Non-magnetic; some epidote (?); only traces of calcite. Foliated $\sim 50^\circ\text{C/A}$ ($< \text{mm}$. mineral alignment streaks); upper contact bumpy ($\sim 80^\circ\text{C/A}$), lower contact neat (50°C/A). Finer-grained & dark blackish grey in upper 3-4 feet; dark blackish green and $\sim \text{mm}$ -grained in the central major part; dark purplish grey & chilled in the last feet. No sulfides.								
		8530: Traces of Py; control. One foot very fine-grained; blackish.	8530	635.0	640.0	5.0	Tr.			

Falconbridge Ltd.

HOLE NO: 620-12

PAGE: 8 of 19

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
647.5	~782.5	8531: I dem # 8530, but fine to nearly medium-grained, blackish green.	8531	640.0	645.0	5.0	Tr.			
		8532: I dem # 8530, but chilled & fine-grained, purplish & bluish black.	8532	645.0	647.5	2.5	Tr.			
		(~50%) LATH FELDSPAR PORPHYRIES, (~40%) EPI-DOTIZED & CHLORITIZED INCLUSIONS & (5-10%) RELATED ADMIXTURES								
		Various greys, greens & pinks. Usually non-magnetic. Generally light to medium color intensities above 725, rather dark below.								
		Feldspar porphyries are pale to medium reddish or pinkish (several portions get dark grey to blackish; contamination by mafic?). From 711.5 to 723, light grey porphyry (bleached?) holding < 25% coarse whitish-lath feldspar phenocrysts.								
		(651-671, 763.5-782.5): medium-grained, epidote green, so-called inclusions; cut by coarse feldspar porphyries (whitish beige with grey contacts 663-664.5 & pale pinkish 773-774.5) and grading to blackish 768-782.5.								
		(749-761): fine-grained, medium greyish green, so-called inclusion; contacts ~15% A (upper) & 70% A (lower).								
		(704-705, 707.5-709.5, 710-711.5, 725.5-727.5,								

Falconbridge Ltd.

HOLE NO: 620-12

PAGE: 9 of 19

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		729.5-731, 740-742.5): partly digested, green or blackish smaller inclusions (black ones often magnetic). Additional details are stated in the descriptions of the assay samples (below).								
		8533: Minor Py; control. Pinkish grey coarse lath feldspar porphyry.	8533	647.5	651.5	4.0	Tr.			
		8534: Minor Py; control. 1.5' grey, 2.0' epidote green.	8534	651.5	655.0	3.5	Tr.			
		8535: < 1/8% Py; control. Medium to fine-grained, epidote green (some pinkish grains probably of feldspar analogous to nearby porphyries).	8535	655.0	657.5	2.5	Tr.			
		8536: Idem # 8535.	8536	657.5	662.5	5.0	Tr.			
		8537: Minor Py; control. 1.5' of creamy flesh colored coarse feldspar porphyry adjacent to grey fine to medium-grained contact rock (altered equivalent of enclosing epidote green rock).	8537	662.5	665.5	3.0	0.02			
		8538: Minor Py; control. Rock idem # 8536.	8538	665.5	669.5	4.0	Tr.			
		8539: Minor Py; control. 1' grey contact (altered epidote green equivalent), 1' vitreous felsitic siliceous phase of feldspar porphyry.	8539	669.5	671.5	2.0	Tr.			
		8540: Minor Py; control. Somewhat pale pinkish brownish grey coarse feldspar porphyry, resting on blackish grey trachytic coarse to medium-grained feldspar porphyry.	8540	671.5	676.5	5.0	Tr.			

Falconbridge Ltd.

HOLE NO: 620-12

PAGE: 10 of 19

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		8603: ~2% Py (fine & medium-grained, disseminated & in greenish). Reddish pinkish grey feldspar porphyry with fine-grained greenish spots & patches of altered mafic.	8603	697.5	702.5	5.0	Tr.			
		8541: < 1/8% Py; control. 1' blackish; 4' pale to dark reddish lath feldspar porphyry.	8541	702.5	707.5	5.0	Tr.			
		8542: ~3/8% Py (at 709.5). 1' green; 4' mixed reddish porphyry & black mafic contaminated portions.	8542	707.5	711.5	4.0	Tr.			
		8543: > 1/8% Py (stringer at 712). Fine-grained grey matrix, ~20% coarse to very coarse lath phenocrysts; some trachytic alignment subparallel to C/A.	8543	711.5	716.5	5.0	0.02			
		8544: < 1/8% Py. Rock idem # 8543, except more coarse-grained phenocrysts.	8544	716.5	721.5	5.0	Tr.			
		8545: Idem # 8543, except less phenoc & darker grey matrix.	8545	721.5	725.5	4.0	Tr.			
		8546: Minor Py; control. Half black & green inclusions, half green contaminated trachytic feldspar porphyry.	8546	725.5	730.5	5.0	0.01			
		8547: Minor Py (at lower end); control. Dark reddish grey to blackish feldspar porphyry, some trachytic alignment at lower end.	8547	743.0	748.5	5.5	Tr.			
		8548: ~1/8% Py (fine-grained at upper end). Fine-grained greenish grey.	8548	748.5	753.5	5.0	Tr.			
		8549: ~1/8% Py (fine-grained disseminations). Fine-grained greenish grey.	8549	753.5	756.0	2.5	Tr.			

Falconbridge Ltd.

HOLE NO: 620-12

PAGE: 11 of 19

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		8550: ~ 3/8% Py (very fine-grained disseminations). Fine-grained greenish grey.	8550	756.0	761.0	5.0	Tr.			
		8551: Minor Py; control. Pinkish relatively dark grey lath feldspar porphyry.	8551	761.0	763.5	2.5	Tr.			
		8552: Minor Py; control. Epidote green, medium-grained inclusion (gradual change at lower end)	8552	763.5	768.0	4.5	Tr.			
		8553: < 1/8% Py (very fine-grained at lower end). Blackish medium-grained inclusion.	8553	768.0	773.0	5.0	Tr.			
		8554: Minor Py; control. Pinkish creamy color translucent felsitic coarse feldspar porphyry.	8554	773.0	774.5	1.5	Tr.			
		8555: > 1/8% Py (very fine-grained disseminations). Blackish medium-grained inclusion; 5% felsitic-looking felsic cm. stringer subparallel to core axis at 770.	8555	774.5	779.5	5.0	Tr.			
702.5	834	<u>GREY LATH FELDSPAR PORPHYRY</u> Relatively homogeneous, mixed medium to coarse-grained, lighter colored feldspar phenos; the rock is medium to dark grey; some trachytic alignment here & there. Generally non-magnetic. Minor Py.								
834	888.5	8556: < 1/8% Py (disseminated). Blackish with grey feldspar phenos porphyry. <u>LATH FELDSPAR PORPHYRIES, QUARTZ & MAFIC INCLUSIONS</u> Reddish & blackish grey lath feldspar porphyries often contaminated by mafic minerals.	8556	829.0	834.0	5.0	Tr.			

Falconbridge Ltd.

HOLE NO: 620-12

PAGE: 12 of 19

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
		(At 860, 869.5-871.5, 879-887): whitish grey quartz frequently holding relict greyish grains. (865-869.5): lamprophyre-like. More details in sample descriptions (below).								
		8557: Minor Py. Pinkish grey coarse feldspar porphyry.	8557	834.0	839.0	5.0	Tr.			
		8558: < 1/8% Py (disseminated in pinkish lower two feet). Medium-grained feldspar porphyry, pinkish dark grey (to pink siliceous in the last foot).	8558	853.5	858.5	5.0	Tr.			
		8559: > 1/2% Py (near & in block). 8" whitish grey quartz veinlet, flanked by bluish & yellowish black (in part laminated & folded) wall rock portions. ~40% A upper contact, 15% A lower contact.	8559	858.5	861.5	3.0	Tr.			
		8560: < 1/4% Py (very fine-grained, disseminated). Pinkish brownish black, fine-grained, somewhat folded, foliated (~30~50% A).	8560	861.5	865.0	3.5	Tr.			
		8561: < 1/8% Py (very fine-grained disseminations). Lamprophyric, somewhat foliated, pinkish black.	8561	865.0	869.5	4.5	Tr.			
		8562: ~1/4% Py (disseminated in streaks & fractures). Whitish pinkish quartzose felsitic phase.	8562	869.5	872.5	3.0	Tr.			
		8563: < 1/8% Py (upper end). Black mixed with whitish pinkish felsitic matter, some foliation here & there (~45°).	8563	872.5	876.5	4.0	Tr.			
		8564: < 1/8% Py. Rich in bluish black mafic	8564	876.5	879.0	2.5	Tr.			

Falconbridge Ltd.

HOLE NO: 620-12

PAGE: 13 of 19

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		<i>minerals, fine-grained; finely laminated at lower end (50°C/A).</i>								
		<i>B565: < 1/4% Py (cubes in shear at 881). Whitish grey quartz, holding 2" finely laminated (50°C/A) blackish & pinkish lithified shear.</i>	<i>B565</i>	<i>879.0</i>	<i>882.0</i>	<i>3.0</i>	<i>0.01</i>			
		<i>B566: ~ 1/4% Py (grains trains in streaks & fractures). Whitish grey quartz with ~ 1% pale greenish grey sericitized (& chloritized?) mafics thin streaks, also ~ 1% pinkish mm. stringers.</i>	<i>B566</i>	<i>882.0</i>	<i>887.0</i>	<i>5.0</i>	<i>Tr.</i>			
		<i>B567: < 1/8% Py. Reddish porphyry with whitish medium-grained feldspar phenocrysts.</i>	<i>B567</i>	<i>887.0</i>	<i>888.5</i>	<i>1.5</i>	<i>Tr.</i>			
<i>888.5</i>	<i>944.5</i>	<u><i>ALTERED MAFIC INCLUSION</i></u>								
		<i>Epidote green to blackish, medium-grained; generally non-magnetic; ~ 4% felsic pinkish dykelets and quartzose stringers. Minor to traces of pyrite.</i>								
		<i>B568: Minor Py; control. Blackish, fine to medium-grained (lamprophyre-like), holding some cm. reddish felsic dykelets; 6" pink felsic porphyry.</i>	<i>B568</i>	<i>888.5</i>	<i>893.0</i>	<i>4.5</i>	<i>Tr.</i>			
		<i>B569: Minor Py; control. Blackish medium-grained (lamprophyre-like) holding ~ 4% cm. reddish felsic dykelets.</i>	<i>B569</i>	<i>893.0</i>	<i>896.5</i>	<i>3.5</i>	<i>Tr.</i>			
		<i>B570: Minor Py; control. Dark green (to blackish locally), medium-grained.</i>	<i>B570</i>	<i>896.5</i>	<i>901.5</i>	<i>5.0</i>	<i>Tr.</i>			
		<i>B571: Minor Py; control. Greyish black mafic</i>	<i>B571</i>	<i>939.5</i>	<i>944.5</i>	<i>5.0</i>	<i>Tr.</i>			

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HOLE NO: 620-12

PAGE: 14 of 19

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
944.5	1003	inclusion; 15% green & pink altered. MIXED FELDSPAR PORPHYRIES & MAFIC INCLUSIONS								
		Reddish coarse lath feldspar porphyries (944.5-955, 964-970, 984-989, half of 989 to 1003) mixed with medium-grained, dark colored basic feldspar porphyries (955-964, half of 989 to 1003) and/or mafic inclusions (most of 970 to 984; grey to black often holding calcite, green not reacting with HCl, fairly magnetic). Minor to some Py (usually in the reddish porphyries and quartzose portions). ~3" of creamy colored pure calcite stringers at 1001.								
		8572: < 1/8% Py (disseminated). Locally siliceous. felsitic look; reddish altered, medium to coarse-grained feldspar porphyry.	8572	944.5	949.5	5.0	Tr.			
		8573: ~ 1/4% Py (fracture fillings & grains). Similar to #8572, but a little more felsitic.	8573	949.5	955.5	6.0	0.01			
		8574: Minor Py; control. Blackish, medium-grained basic syenite.	8574	955.5	960.5	5.0	Tr.			
		8589: < 1/8% Py; control. I-dem #8574.	8589	960.5	962.5	2.0	Tr.			
		8575: > 1/8% Py (very fine-grained). Blackish to whitish brown (variegated colors mixture) altered contact zone. Very siliceous at lower end. Banding ~70°C/A.	8575	962.5	965.5	3.0	Tr.			
		8576: ≤ 1/8% Py (disseminated). Reddish lath	8576	965.5	971.0	5.5	Tr.			

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HOLE NO: 620-12

PAGE: 15 of 19

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		<i>feldspar porphyry (grey over last 6").</i>								
		0577: Minor Py; control. Greenish grey mafic rock, fine to medium-grained, holding ~10% light beige acicular lath-shaped crystals.	0577	971.0	975.5	4.5	Tr.			
		0578: < 1/8% Py (in red dykelets). Rock idem # 0574, except 25% reddish felsic dykelets.	0578	975.5	980.5	5.0	Tr.			
		0579: < 1/8% Py (near cm. quartz stringer). Rock idem # 0574, except ~5% felsic stringers.	0579	980.5	984.5	4.0	Tr.			
		0580: ~ 1/8% Py. Pink to reddish altered lath feldspar porphyry.	0580	984.5	989.5	5.0	Tr.			
		0581: ~ 1/8% Py (very fine-grained). Fine-grained grey matrix, ~5% coarse whitish grey feldspar phenocrysts.	0581	989.5	992.3	2.7	Tr.			
		0582: ~ 1/8% Py (fine-grained & fracture filling). Mixed fine-grained grey matrix & reddish altered feldspar porphyries (phenocr are more abundant than # 0581).	0582	992.3	996.3	5.0	Tr.			
		0583: > 1/8% Py (fine-grained & very fine-grained). Mostly mixed reddish porphyries, some fine-grained (granulated?) portions, little grey; 8% creamy colored calcite stringers at lower end.	0583	996.3	1001.0	4.7	Tr.			
		0584: > 1/4% Py (fracture filling, disseminated). Pinkish & greyish quartzose felsitic facies of porphyry-related intrusive; fractured & sutured by whitish calcite-bearing mm. stringers.	0584	1001.0	1003.0	2.0	Tr.			

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HOLE NO: 620-12

PAGE: 16 of 19

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
1003	1065	<u>GREEN ALTERED COUNTRY ROCK</u> Epidote green, medium-grained, 20-50% black mafic minerals; calcite-bearing when blackish grey; usually little magnetic. Cut by several whitish to pinkish felsic dykes (lath feldspar porphyries, mainly 1007.5-1008.5, 1012-1013.5, 1021-1022.5, 1047.5-1049, 1063-1064.5; often cutting at 45 to 55°/A) as well as by a total of 3.5' of dykelets and felsitic facies stringers. Minor Py usually, except near some felsic dykes contacts.								
		8585: Minor Py; control. Dark colored (half green, half bluish grey) basic inclusion; calcite-bearing when grey.	8585	1003.0	1008.0	5.0	Tr.			
		8586: Minor Py; control. Similar to #8585, except 15% reddish to buff felsic porphyries dykelets.	8586	1008.0	1012.0	4.0	Tr.			
		8587: $\geq 1/2\%$ Py (fracture filling & on footwall). Pinkish brown medium to coarse-grained phenocryst feldspar porphyry.	8587	1012.0	1013.5	1.5	Tr.			
		8588: $\sim 1/4\%$ Py (last foot near quartz stringer). Similar to #8585, except 10% felsic stringers.	8588	1013.5	1019.0	5.5	0.01			
		8590: $< 1/8\%$ Py (in felsic dyke). Similar to #8585, except 10% pinkish felsic stringers.	8590	1019.0	1024.0	5.0	Tr.			

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HOLE NO: 620-12

PAGE: 17 of 19

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
		& 25% medium-grained pinkish grey feldspar porphyry.								
		8591: Minor Py (in felsitic). 40% similar to # 8585, 45% medium-grained lamprophyre, 15% siliceous felsitic-like.	8591	1036.0	1039.0	3.0	Tr.			
		8592: < 1/8% Py (some grains). Beige pinkish grey coarse lath feldspar porphyry (contacts ~ 30°C/A)	8592	1047.5	1049.0	1.5	Tr.			
		8593: Minor Py; control. Dark green, fine to medium-grained basic rock; ~ 5% black mafic segregations, 10% purplish grey feldspar porphyry dykelets.	8593	1058.5	1063.5	5.0	Tr.			
		8594: Minor to traces of Py. 80% purplish brownish grey felsitic-look felsic intrusive (contacts ~ 30°C/A); 20% green mafic rock.	8594	1063.5	1065.0	1.5	Tr.			
1065	1153	<u>BASIC TO ULTRABASIC ROCKS</u> Dark to blackish greys, some greenish in places, fine-grained, fairly magnetic. Some shearing here & there, a little more below 1138, (≈ 60°C/A to 80°C/A). Cut by several medium to dark grey felsic dykelets [namely 1067.5-1068.5, ~ 1100-1101 (and stretching subparallel to core axis as a centimetric dykelet to ~ 1098), 1115-1116, 1121-1123). 1-4% whitish stringers, often calcite-bearing; Calcite-bearing layer from 1149 to 1151. Traces to minor Py usually.								

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HOLE NO: 620-12

PAGE: 18 of 19

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./Ton			
		8595: Minor to traces of Py. Grey, fine-grained mafic to ultramafic; < 5% pinkish grey felsic portion.	8595	1065.0	1067.5	2.5	Tr.			
		8596: Minor to traces of Py. Medium-grained phenocrysts grey feldspar porphyry (contacts ~ 30°C/A).	8596	1067.5	1068.5	1.0	Tr.			
		8597: Minor to traces of Py; control. ~ 85% grey & green basic rock, next to 15% grey felsic stringer parallel to core axis; at 1100.5, coarse crystal of #8577 beige mineral (olivine??)	8597	1096.5	1101.5	5.0	Tr.			
		8598: Minor to traces of Py; control. Blackish fine to medium-grained basic to ultrabasic rock; 2% felsic dykelet.	8598	1101.5	1106.5	5.0	Tr.			
		8599: > 1/8% Py (disseminated). Medium-grained dark olivish grey feldspar porphyry, translucent.	8599	1115.0	1116.0	1.0	0.01			
		8600: Minor Py. Blackish grey ultrabasic rock.	8600	1116.0	1121.0	5.0	Tr.			
		8601: < 1/8% Py (disseminated). Similar to #8599 getting coarse-grained (upper contact ~ 15°C/A, lower contact ~ 80°C/A).	8601	1121.0	1123.0	2.0	Tr.			
		8602: Traces of Py. Blackish grey basic to ultrabasic rock, partly chloritized & possibly somewhat serpentized. Several slips of various directions.	8602	1143.0	1148.0	5.0	Tr.			
	1153	<u>END OF HOLE.</u> Casings pulled out. A red painted wooden								

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HOLE NO: 620-12

PAGE: 19 of 19

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
		<p>post, bearing an aluminum identification tag, was set into the hole collar.</p> <p><u>NOTE:</u> On a first trial: 64' of NW casing and 80' of AW casing were driven & rods were broken while drilling at 216'; the core recovered amounted to ~ 76-83 interval of NX core and 83-206 interval of AQ wireline core (which were repeated in later drilling).</p> <p>NW and AW casings of the first trial were pulled out but 40' of AW casing, 210' of AQ rods, 1 reaming shell & 1 bit were lost in the hole. The drill was reset 1 foot away and drilling proceeded parallel to the abandoned hole.</p> <p>Etch tube dip determinations: 45° at 300', 44° at 600', 42° at 900' & 42° at 1153'.</p> <p style="text-align: center;">J. André Carrier</p> <p style="text-align: center;">85 01 12</p>								

AU GEOCHEMISTRY

Diamond Drill Hole no: 620-13

Township: MICHAUD

Log Summary		Geochemistry Sample				
Location (m) From To	Rock type	Sample no.	Location (ft.)		Au (ppb)	Remarks
			From	To		
		620-13-01	62	76	9	
		02	76	110	105	bright red only
		03	76	110	92	less former 1
		04	110	147	529	bright red only
		05	110	147	697	less former 1
		06	147	190	327	
		07	190	232	117	
		08	232	267.5	575	
		09	267.5	317	1568	
		620-13-10	317	365	539	bright red only
		11	317	365	229	less former 1
		12	365	423	59	
		13	423	443.5	86	
		14	445	450	789	
		15	443.5	476.5	118	blackish green only
		16	443.5	476.5	1044	less former 2
		17	519.5	525.5	67	
		18	476.5	533	24	red dykelets only
		19	476.5	533	4	less former 2
		620-13-20	533	572	29	
		21	572	614	116	coarse lath phenos.
		22	572	614	122	less former 1
		23	614	669.5	96	reddish only
		24	614	669.5	105	less former 1
		25	669.5	729	175	red portions only
		26	669.5	729	77	less former 1
		27	729	753	450	
		28	753	766	828	
		29	766	811	359	
		620-13-30	811	816	290	
		31	816	867	261	
		32	867	869	1520	
		33	869	878	641	
		34	878	884	232	

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HOLE NO: 620-13

PAGE: 1 of 30

Drilled by: BRADLEY BROS. LIMITED

Property: MICHAUD BLOCK; PN-620

Latitude: 117+52 N

Longitude: 313+97 E

Started: 84 10 20

Township: of MICHAUD; claims { #40918
#40917

Azimuth: 0°

Dip: -60° (collar), *

Ended: 84 11 03

Logged by: J. ANDRÉ CARRIER

Élévation: ?

Length: 1503 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz/ton			
0	56	NW casing								
0	64	AW casing								
62	1503	AQ wireline core (good to locally poor recovery; fair to locally very poor R.Q.D. (because of frequent machine broken blocky core), laid into approximately 62 boxes.								
0	62	<u>OVERBURDEN</u> Sand resting on gravel with boulders.								
62	76	<u>PINKISH FELDSPAR PORPHYRY</u> Maybe partly discoloured by weathering. 8211 : < 1/8% Py; control.	8211	71.0	76.0	5.0	0.02			
76	~147	<u>LATH PORPHYRY, BASIC SYENITE, RED PORPHYRY</u> Dark reddish purplish grey, fine-grained basic syenite (86-87, 98-105.5, 126.5-147) intruded by brickish red lath feldspar porphyry holding whitish grey feldspar phenocrysts (87-90, 105.5- 110, 119-126.5) adjacent to red fine-grained sye- nite porphyry with somewhat diffuse contacts & including some lath porphyry dyke (90-98, 110-119).								

Falconbridge Ltd.

HOLE NO: 620-13

PAGE: 2 of 30

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		B104: > 1/4% Py (very fine-grained); control. 3' red syenite, 2' mixed lath porphyry with greenish (Py-bearing) chloritic material.	B104	93.0	98.0	5.0	0.01			
		B105: < 1/8% Py (very fine-grained); a little alteration (lighter grey) along hairline & mm. fractures. Control.	B105	98.0	103.0	5.0	0.01			
		B106: Minor Py; control. Light grey altered mafics, lath feldspar porphyry, ~4% quartz (stringer subparallel to core axis).	B106	121.5	126.5	5.0	0.01			
		B107: < 1/8% Py (very fine-grained); control. Basic syenite holding 15% quartz (stringers subparallel to core axis).	B107	126.5	131.5	5.0	0.04			
		B942: < 1/8% Py (fine-grained disseminations). Dark purplish grey basic syenite, altered & lighter colored along cracks & some stringers.	B942	131.5	133.5	2.0	0.02			
		B943: ~ 1/8% Py (fine-grained disseminations). 1/3 red lath feldspar porphyry, 1/3 dark purplish grey syenite, 1/3 intruded mixed & altered. 4.5' of core recovered.	B943	133.5	139.0	5.5	0.01			
		B944: Minor to traces of Py. Practically unaltered purplish black basic syenite (rather fine-grained).	B944	139.0	144.0	5.0	Tr.			
		B945: < 1/8% Py. Intruded & locally altered purplish grey to blackish basic syenite.	B945	144.0	147.0	3.0	Tr.			

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HOLE NO: 620-13

PAGE: 3 of 30

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton	REJECT	AVERAGE
~ 147	232	<u>LATH FELDSPAR PORPHYRY</u> Red hematized, greyish feldspar coarse phenocrysts; medium-grained below 217.5. B108: > 1/4% Py (disseminated locally). ~2% white quartz stringers. 3.5' recovered. B109: < 1/8% Py; control. ~3% quartz stringers. B111: < 1/8% Py. Medium-grained red.							
232	267.5	<u>BLACKISH SYENITE</u> Dark purple tinge on the wet surface. Fine to medium-grained (finer near both contacts); somewhat magnetic; gabbro-like appearance. Blocky core. Minor Py, except locally. B112: < 1/4% Py. 5% medium-grained red, fine to very fine-grained blackish (holding half the Py 235.5-236.5).	B112	232.0	237.0	5.0	0.06	0.08	0.07
267.5	317	<u>TRACHYTIC MAFIC SYENITE</u> Appearance similar to 232-267.5, except somewhat lighter color, more medium-grained, less magnetic and, above all, subparallel arrangement of elongated mafic minerals. Some local purplish altered fine-grained portions (with a little very fine-grained Py?)							

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HOLE NO: 620-13

PAGE: 4 of 30

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton	REJECT	AVERAGE
		(280.5-288, 309-310.5): light to medium grey with reddish tinge, finer-grained; in places, fractured & partly altered. Holding some very fine-grained Py.							
		B113: Minor Py.	B113	276.0	281.0	5.0	0.01		
		B114: ~ 1/8% Py (very fine-grained), 2/3 fine-grained purplish grey, 1/3 medium-grained trachyte; upper foot fractured (nearly brecciated).	B114	281.0	286.0	5.0	0.02		
		B115: < 1/8% Py (very fine-grained), ~ 1/3 fine-grained purplish grey, 2/3 medium-grained trachyte.	B115	303.5	309.0	5.5	0.02		
		B116: ~ 1% Py (very fine-grained). Most of it fine-grained purplish grey, very fine-grained silicified former breccia appearance.	B116	309.0	310.5	1.5	0.53	0.74	0.635
		B946: Minor Py (very fine-grained disseminations). Dark pinkish grey porphyritic syenite, medium-grained & trachytic. 5% of it is light color discoloured.	B946	310.5	315.0	4.5	Tr.		
		B947: ≤ 1/8% Py (in reddish). Similar to #B946, but with 2" reddish.	B947	315.0	317.0	2.0	0.01		
317	365	<u>MIXED LATH PORPHYRY AND SYENITES</u> Complex altered arrangement of mafic syenite (mostly in upper half) and brownish red							

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HOLE NO: 620-13

PAGE: 5 of 30

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton	REJECT	AVERAGE
		porphyritic syenite (more abundant in lower half) facies cut by 12' of red lath feldspar porphyry above 352.							
		B948: $\leq 1/4\%$ Py (mostly in pink & reddish). Pinkish & reddish altered trachytic porphyritic syeni- te (less than 10% little altered). $\sim 3\%$ quartz stringers (most of it in one stringer at 320).	B948	317.0	323.0	6.0	0.05	0.04	0.045
		B949: Minor Py. Similar to #8946, but $1/3$ red- dish altered.	B949	323.0	325.0	2.0	Tr.		
		B117: $\sim 1\%$ Py (disseminated). $\sim 1'$ partly assimilated basic trachyte; most of it lath feldspar por- phyry.	B117	325.0	330.5	5.5	0.02		
		B118: Minor Py. 1% quartz stringers; mostly basic trachyte.	B118	330.5	335.0	4.5	0.02		
		B119: $\sim 1/8\%$ Py (disseminated). Lath feldspar porphyry.	B119	335.0	340.5	5.5	0.02		
		B120: $> 1/8\%$ Py (in red). 2% quartz stringers; upper 2' are reddish.	B120	340.5	345.0	4.5	0.03		
		B950: Minor Py (fine-grained disseminations in pinkish). Dark gray fine-grained basic syenite, $1/3$ of it discoloured pinkish a- long minute cracks.	B950	345.0	347.0	2.0	0.01		
		B951: $\leq 1/4\%$ Py (fine-grained disseminations), of- ten in red. Red & brick red altered granu- lated mixture of basic syenite and lath feldspar porphyry.	B951	347.0	352.0	5.0	0.04		
		B952: $\sim 1/4\%$ Py (very fine-grained disseminations),	B952	352.0	357.0	5.0	0.03		

Falconbridge Ltd.

HOLE NO: 620-13

PAGE: 6 of 30

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		most of it in upper 2'. Upper 2' are buff reddish altered (granulated porphyry?); last 2.5' are dark reddish altered porphyritic syenite; the central part holds some remnant of basic syenite, ~ 1% quartz stringers.								
		B122: > 1/4% Py (very fine-grained & grains). Reddish; ~ 3/4% quartz stringers	B122	357.0	362.0	5.0	0.02			
		B953: ~ 1/8% Py (very fine-grained disseminations). Basic syenite, > 2/3 of it pinkish & buff reddish altered (mostly along minute cracks).	B953	362.0	365.5	3.5	Tr.			
365	423	<u>PORPHYRITIC SYENITE</u> Grey to greyish red (reddish apparently linked to alteration). Some bleaching frequently adjacent to quartz stringers. In places, microfracturing & small scale brecciation (most evident in local quartzose pale grey stockwork portion at 383). B954: ≥ 1/8% Py (very fine-grained disseminations). Buff to reddish altered, very fine-grained (& granulated?) in places, porphyritic syenite. B123: < 1/4% (very fine-grained disseminations). ~ 1/2% quartz stringers; finely fractured reddish. Control.								
		B954: ≥ 1/8% Py (very fine-grained disseminations). Buff to reddish altered, very fine-grained (& granulated?) in places, porphyritic syenite.	B954	365.5	370.0	4.5	Tr.			
		B123: < 1/4% (very fine-grained disseminations). ~ 1/2% quartz stringers; finely fractured reddish. Control.	B123	370.0	375.0	5.0	0.03			

Falconbridge Ltd.

HOLE NO: 620-13

PAGE: 7 of 30

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		8955: ~1/8% Py (very fine-grained disseminations). Half reddish-altered purplish grey porphyritic syenite; often developing reddish along cracks resulting in some barber-pole appearance.	8955	375.0	380.0	5.0	Tr.			
		8956: ~1/8% Py (very fine-grained disseminations). Similar to * 8955, but with 25% thorough pinkish red portions (holding most of 2-3% quartz stringers).	8956	380.0	385.0	5.0	Tr.			
		8957: < 1/8% Py (very fine-grained disseminations). Idem # 8956, but 15% (less thoroughly pinkish red) portion and ~1% quartz stringers.	8957	385.0	390.0	5.0	Tr.			
		8124: Minor Py; control. Mostly grey porphyry.	8124	403.0	408.0	5.0	Tr.			
423	~443.5	<u>TRACHYTIC MAFIC SYENITE</u> Medium-grained, some fine-grained portions; lower half is well magnetic. Not very clear contacts. Locally some fine-grained Py.								
		8125: < 1/8% Py; control. Fine to medium-grained trachytic mafic syenite.	8125	438.0	443.0	5.0	0.01			
~443.5	~476.5	<u>ALTERED BRECCIA (of SYENITES & VOLCANIC ROCKS)</u> Mostly greyish to reddish brown microstockwork of fractured silicified metasomatized (?) and								

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HOLE NO: 620-13

PAGE: 8 of 30

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		granulated syenites holding several portions of mafic syenite (partly assimilated) and foot-long blackish green volcanic rocks at 451, 464, 468, 471 & 473. Not very clear contacts at both ends.								
		(445 ~ 450): coarse feldspar porphyry (pale phenocrysts, dark reddish-grey groundmass).								
		8126: > 1% Py (fine & very fine-grained), Metasomatized trachytic syenite, 1/2 bleached a-long fine quartz stringers.	8126	443.0	445.0	2.0	0.02			
		8127: ~ 1/4% Py (very fine-grained). Coarse feldspar porphyry (altered)	8127	445.0	448.0	3.0	0.01			
		8128: > 1/2% Py (fine & very fine-grained). 2/3 altered feldspar porphyry, 1/3 altered trachytic syenite.	8128	448.0	450.5	2.5	0.03			
		8129: Minor Py. 2/5 trachytic syenite, 3/5 chloritized volcanic rock.	8129	450.5	452.0	1.5	Tr.			
		8130: ~ 1% Py (fine & very fine-grained). Altered & granulated reddish porphyry.	8130	452.0	456.0	4.0	0.03			
		8131: ~ 1/2% Py (fine & very fine-grained) in reddish. > 1% quartz stringers; 1/2 reddish altered & 1/2 little altered trachytic syenite.	8131	456.0	459.5	3.5	0.03			
		8132: ~ 1/8% Py (fine & very fine-grained) in reddish. > 2% quartz stringers; rock idem # 8131.	8132	459.5	464.0	4.5	0.01			
		8133: > 1/2% Py (very fine-grained). 1 foot chloritized mafic rock, 2 feet microstockwork (>3% quartz stringers) altered reddish.	8133	464.0	467.5	3.5	0.04			

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HOLE NO: 620-13

PAGE: 9 of 30

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./TON				
~476.5	572	B134: ~ 1/8% Py (very fine-grained). Half chloritized mafic rock (several cm. angular fragments), half stockwork (> 3% quartz stringers) altered reddish.	B134	467.5	473.0	5.5	0.01				
		B135: ~ 1/4% Py (very fine-grained). Altered reddish, more than half showing quartz microstockwork.	B135	473.0	476.5	3.5	0.04				
		<u>BASIC TO ULTRABASIC ROCKS</u> Blackish green, chloritized; probably former lavas. Average of ~3% felsic dykelets (~45% A). 1-4% mm. quartz stringers (not perfectly planar). Somewhat to fairly magnetic all through. 55% A at lower contact. Minor to traces of sulfides all through.									
		(519.5-525.5): 5' of altered pinkish grey porphyritic syenite on 1' brickish red lath feldspar porphyry (~40% A upper contact; rather low angle with %A undulating lower contact). Below 533, darker, softer, ultramafic rock; no felsic dykelet; network of mm. to cm. whitish soft stringers (up to 6% of the rock in places).									
		B136: < 1/8% Py (fine-grained); control. Associated volcanic rocks; > 1% quartz stringers.	B136	476.5	481.5	5.0	Tr.				
		B137: Minor Py (fine-grained); control.	B137	567.0	572.0	5.0	Tr.				

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HOLE NO: 620-13

PAGE: 10 of 30

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
572	~614	<u>RED PORPHYRIES</u> Brick & brickish red altered; 1/3 coarse lath feldspar porphyry & 2/3 fine-grained (granula- ted lath or porphyritic syenite). Locally weakly magnetic. Local portions containing up to 10% chloritized mafic. Less than 1% Py (usually in coarse lath porphyry). (572-577, 582.5-586.5, 593-600): very coarse- grained lath feldspar porphyry.								
		B138: ~ 3/4% Py (fine-grained & aggregated), Brick red coarse feldspars.	B138	572.0	577.0	5.0	0.02			
		B139: ~ 1/8% Py, in redder medium-grained.	B139	577.0	582.5	5.5	0.02			
		B140: > 1/8% Py (fine-grained & aggregated), Brickish red coarse feldspars.	B140	582.5	586.5	4.0	0.01			
		B141: Minor Py (disseminated).	B141	586.5	589.0	3.5	Tr.			
		B142: ~ 1/8% Py. > 1% quartz stringers.	B142	589.0	593.0	4.0	Tr.			
		B143: > 1/8% Py. ~ 1% quartz stringers; brickish red coarse feldspars.	B143	593.0	598.0	5.0	0.02			
		B144: I dem # B143.	B144	598.0	600.5	2.5	0.01			
		B145: > 1/4% Py (mostly at lower end), ~ 1/2% quartz stringers.	B145	600.5	604.0	3.5	0.02			
		B146: ~ 1/8% Py. < 1/2% quartz stringers.	B146	604.0	609.0	5.0	Tr.			
		B147: < 1/8% Py.	B147	609.0	614.0	5.0	Tr.			

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HOLE NO: 620-13

PAGE: 11 of 30

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
~614	~669.5	<u>ALTERED BASIC SYENITE</u> Pinkish grey somewhat basic syenite holding > 10% reddish altered (hematized and bleached) portions and several hairline to mm. quartz stringers. Minor Py only. B148: < 1/8% Py. ~ 1/2% quartz stringer. B149: Minor Py (in red); control. 2' reddish & 3' greyish. B150: Minor Py (in red); control. 3' reddish & 4' greyish; < 1/2% mm. quartz stringers.	B148 B149 B150	614.0 619.0 639.0	619.0 624.0 646.0	5.0 5.0 7.0	Tr. 0.01 0.01			
~669.5	~729	<u>ALTERED BASIC SYENITE</u> (similar to 614-669.5, except more abundant reddish portions) Up to 1% quartz stringers in places. Contacts not too clear. Part of red portions may be former lath feldspar porphyry, especially 669.5-672, 680-692 & 722-727. Usually minor Py. B151: Minor Py; control. 1% quartz stringers; fine to medium-grained granulated reddish. B152: < 1/8% Py; control. ~ 1/2% quartz stringers; 3.5' brick red granulated (microfractured in place).	B151 B152	686.0 724.0	691.0 729.0	5.0 5.0	0.01 0.01			

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HOLE NO: 620-13

PAGE: 12 of 30

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz/ton	PULP	REJECT	AVERAGE
~729	811	<p><u>ALTERED LATH FELDSPAR PORPHYRY</u></p> <p>Brick & brickish red hematized; frequently granulated. Microfractured in place. In places, up to 2% quartz stringers. Carbonated (with calcite) near lower contact. Might reach 1% Py locally.</p> <p>(753-766): reddish grey fine to medium-grained somewhat basic syenite, including 2 dykes & a 1.5' dyke of red lath feldspar porphyry; a little carbonated (with calcite). Near 761, somewhat brecciated (with hairline chlorite films between small fragments.).</p> <p>(790-792): pale greyish pink siliceous-rich like portion. ~35% chlorite slips.</p> <p>B153: ~1/8% Py. Brickish to brick red, ~5% greyish altered mafics.</p> <p>B154: > 1/2% Py (grains & small aggregates). Brick red microfractured lath porphyry.</p> <p>B155: ~1/8% Py (aggregates). ~3% quartz stringers (& fillings entering local breccia at 740).</p> <p>B156: < 1/4% Py (aggregates). ~3% quartz stringers; pale reddish.</p> <p>B157: > 1/8% Py (fine-grained disseminations). 2' brick red, 3' pale reddish; ~2% quartz stringers & fillings.</p> <p>B158: < 1/4% Py (aggregates & grains). Dark brickish</p>								
			B153	729.0	734.0	5.0	0.02			
			B154	734.0	739.0	5.0	0.02			
			B155	739.0	744.0	5.0	0.04			
			B156	744.0	749.0	5.0	0.03			
			B157	749.0	753.0	4.0	0.03			
			B158	753.0	759.5	6.5	0.07		0.100	0.085

Falconbridge Ltd.

HOLE NO: 620-13

PAGE: 13 of 30

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton	PULP	REJECT	AVERAGE
		reddish & <10% bright brick red. 5.5' of core recovered.								
		B159: ~ 1/2% Py (aggregates & disseminations). Bright brick red.	B159	759.5	761.0	1.5	0.08	0.074		0.077
		B160: < 1/8% Py (aggregates & grains) in red. Nearly all dark brickish reddish.	B160	761.0	765.5	4.5	0.02			
		B161: ~ 3/4% Py (disseminations & aggregates). Dark red granulated coarse feldspar porphyry.	B161	765.5	770.0	4.5	0.04			
		B162: ~ 1/2% Py; idem # B161, locally only hematized.	B162	770.0	775.0	5.0	0.03			
		B163: ~ 3/8% Py (disseminations & aggregates). Hematized coarse lath porphyry; not too granulated; 1/4% quartz stringer.	B163	775.0	780.0	5.0	0.02			
		B164: ~ 1/8% Py (disseminations & aggregates). Hematized coarse lath porphyry, locally lighter hairline fracturing.	B164	780.0	785.0	5.0	0.03			
		B165: ~ 1/8% Py. Hematized lath feldspar por- phyry; 3/4% quartz stringers.	B165	785.0	790.0	5.0	0.02			
		B166: Traces of Py. Pinkish brownish grey sili- ceous-looking.	B166	790.0	792.0	5.0	0.01			
		B167: ~ 1/4% Py (disseminations & aggregates), mostly in brick red. ~ 1/2% quartz stringers.	B167	792.0	797.0	2.0	0.02			
		B168: ~ 1/4% Py; idem # B167. 1.5% quartz stringers.	B168	797.0	802.0	5.0	0.03			
		B169: ~ 1/2% Py; idem # B167.	B169	802.0	807.0	5.0	0.12		0.025	0.0725
		B170: ~ 1/8% Py. 1/2 brick red, 1/2 greyish red brecciated.	B170	807.0	811.0	4.0	0.03			

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HOLE NO: 620-13

PAGE: 14 of 30

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
B11	B16	<u>CHLORITIC SHEAR ZONE BRECCIA</u> ~ 1/3 mm. to cm. red felsic fragments in ~ 2/3 mm. to very fine-grained chloritic ground- mass; Reddish in greenish block; slightly car- bonated (with calcite). 20-40°/A foliation & schistosity. B171: Minor to traces of Py.	B171	B11.0	B16.0	5.0	0.02			
B16	B67	<u>MICROFRACTURED SILICIFIED REDDISH SYENITE</u> Creamy to reddish brown, partly bleached, hematized syenite, cut by a stockwork of ~1% cm. & several smaller quartz stringers (often with diffuse borders). Non magnetic. Vitreous look. Abundant hairline fractures, often of <cm. spacing and usually showing a creamy color, fizzing (in the crack) with HCl. Usually minor Py, reaching 1% very locally. B172: < 1/8% Py (very fine-grained). >6% quartz stringers; abundant minute calcite-bearing cracks. B173: > 1/8% Py (fine-grained & aggregates). >3% quartz stringers; abundant minute calcite- bearing cracks. B174: > 1/8% Py (fine to very fine-grained). >2% quartz stringers; frequent minute calcite- bearing cracks.	B172 B173 B174	B16.0 B21.0 B26.0	B21.0 B26.0 B31.0	5.0 5.0 5.0	0.03 0.02 0.03			

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HOLE NO: 620-13

PAGE: 15 of 30

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		B175: < 1/8% Py (in redder). > 10% quartz (diffuse borders); 3' pale greyish brown vitreous.	B175	831.0	836.0	5.0	0.01			
		B176: ~ 1/8% Py (very fine-grained). > 2% quartz stringers; 1' vitreous; 1.5' finely fractured & pale.	B176	836.0	841.0	5.0	0.02			
		B177: < 1/8% Py (very fine-grained). > 8% quartz stringers; half with greyish look.	B177	841.0	846.5	5.5	0.02			
		B178: > 1/8% Py (very fine-grained). > 3% quartz stringers; some finely fractured & pale portions.	B178	846.5	851.5	5.0	0.01			
		B179: ~ 1/4% Py (fine-grained). > 1% quartz stringers; some finely fractured & pale portions.	B179	851.5	856.5	5.0	0.02			
		B180: < 1/8% Py (very fine-grained). ~ 2% quartz stringers; 1/2 fairly finely fractured.	B180	856.5	862.0	5.5	0.02			
		B181: ~ 1/4% Py (fine-grained). ~ 1% quartz stringers; fairly dark brickish red; upper half fairly richer in minute calcite-bearing cracks.	B181	862.0	867.0	5.0	0.04			
867	869	<u>CHLORITIC BRECCIA</u> 6" of 40% black chlorite matrix (holding minute red fragments & containing over 1% fine-grained Py) lying on 6" of finely brecciated red hematized syenite sutured by black chlorite; then some fragments, quite chloritic, of finely brecciated syenite (where some core								

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HOLE NO: 620-13

PAGE: 16 of 30

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton	PULP	AVERAGE
869	878	<p><i>was most probably lost).</i></p> <p>B182: ~ 1/2% Py (fine & very fine-grained). 30% chlorite, 70% minute red fragments. 1.5' of core recovered.</p> <p><u>ALTERED REDDISH SYENITE</u></p> <p>Quite bright red grading downward to dark brickish red; finely fractured; carbonated along hairline fractures, somewhat cut by quartz stringers. Fair Py locally.</p> <p>B183: > 1/8% Py (very fine-grained), in bright red, ~ 2% calcite stringers, ~ 1% quartz stringers; mostly dark brickish red.</p> <p>B184: < 1/2% Py (fine & very fine-grained). Mostly dark brickish red; ~ 1% calcite stringers.</p>	B182	867.0	869.0	2.0	0.05	0.06	0.055
878	884	<p><u>BASIC SYENITE</u></p> <p>Blackish red, medium-grained; some redder portions. Some suggestion of trachytic alignment in places; some both feldspars here & there. Non-magnetic.</p> <p>B185: < 1/8% Py (in redder). Blackish red porphyritic syenite.</p>	B184	874.0	878.0	4.0	0.03		
			B185	878.0	884.0	6.0	0.02		

Falconbridge Ltd.

HOLE NO: 620-13

PAGE: 17 of 30

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
884	996	<p><u>REDDISH PORPHYRITIC SYENITE</u></p> <p>Brownish red hematized, medium-grained and granulated; some portions preserved part of their coarser feldspar texture (especially between 940 and 975) and are bright red.</p> <p>Finely brecciated & relicified around 974.</p> <p>In places, red holding fair amount of calcite in minute cracks (especially near 885, 935-945, 974).</p> <p>In places, below 910, rock holding up to 10% mafic minerals, especially in the vicinity of chloritic intersections.</p> <p>(899-904.5, 905.5-910, 929.5-930.5, 932-934): non-magnetic <u>chloritic portions</u>, foliated and/or brecciated, of basic syenite composition (with local appearance of tuffs), with calcite in minute cracks; frequent admixture of reddish syenite (often contorted). Foliation: 35°/A (900'), ~45° (909'), subparallel to 9/A (930'), mostly contorted near 933'. Contacts: 40°/A (899'), 40°/A (905.5'), subparallel to 9/A (930'), 50°/A (932').</p> <p>(978-991): more pinkish red, with a little red portions. Locally a little lost core or ground material.</p>								

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HOLE NO: 620-13

PAGE: 18 of 30

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		8186: < 1/8% Py. > 1% quartz stringers.	8186	884.0	889.0	5.0	0.02			
		8187: < 1/8% Py. > 1/2% quartz stringers.	8187	889.0	894.0	5.0	0.01			
		8188: < 1/8% Py. ~ 1% quartz stringers.	8188	894.0	899.0	5.0	0.02			
		8189: ~ 1/8% Py (locally at 899.5). Calcite in minute cracks. 4.5' of core recovered.	8189	899.0	904.5	5.5	Tr.			
		8190: ~ 1/4% Py. Calcite in minute cracks.	8190	904.5	905.5	1.0	0.02			
		8191: Minor Py. Calcite in minute cracks; ~ 1% quartz stringers.	8191	905.5	910.0	4.5	0.01			
		8192: Minor Py. Calcite in minute cracks; 1/2 brick red. 3.5' of core recovered.	8192	910.0	914.0	4.0	Tr.			
		8193: ~ 1/2% Py (fine-grained). Half brick red; calcite in minute cracks.	8193	914.0	919.0	5.0	0.04			
		8194: ~ 1/8% Py.	8194	919.0	924.0	5.0	0.03			
		8195: < 1/8% Py.	8195	924.0	929.0	5.0	0.01			
		8196: Minor Py (in adjacent upper red)	8196	929.0	931.0	2.0	0.01			
		8197: Minor Py (in red)	8197	931.0	934.5	3.5	0.01			
		8198: < 1/8% Py. ~ 1/4% quartz stringer; 10% calcite stringers.	8198	934.5	937.0	2.5	0.02			
		8199: ~ 1/8% Py. Some calcite in cracks; suggestion of foliation (~ 45°/A).	8199	937.0	940.0	3.0	0.01			
		8200: < 1/8% Py. Brickish red; minute cracks.	8200	940.0	945.0	5.0	0.01			
		8201: Minor Py. ~ 1/2% quartz stringers. 4.5' of core recovered.	8201	945.0	950.0	5.0	0.02			
		8202: ~ 1/8% Py. ~ 1/2% quartz stringers.	8202	950.0	955.0	5.0	0.01			
		8203: < 1/8% Py. ~ 1/4% quartz stringers.	8203	955.0	960.0	5.0	0.01			
		8204: < 1/8% Py. < 1/4% quartz stringers.	8204	960.0	965.0	5.0	0.03			
		8205: ~ 1/2% Py. Some brick red; very	8205	965.0	970.0	5.0	0.03			

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HOLE NO: 620-13

PAGE: 19 of 30

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton	REJECT	AVERAGE
		fractured & crack discoloured; calcite fillings at lower end.							
		B206: ~ 1/8% Py. 1% quartz stringer; mm. brecciated at several places with some calcite in the matrix.	B206	970.0	975.0	5.0	0.03		
		B207: ~ 1/8% Py. Some calcite in cracks. ~ 4.5' of core recovered.	B207	975.0	980.0	5.0	0.03		
		B958: > 1/8% Py (fine-grained disseminations). Red altered granulated feldspar porphyry; ~ 10% brick red portion; fractured & sutured finely.	B958	980.0	985.5	5.5	0.01		
		B959: ~ 1/8% Py (fine-grained disseminations), often in brick red. Similar to # B958 but > 15% brick red portions.	B959	985.5	991.0	5.5	0.02		
		B237: Minor Py. Brickish red; 1-2% chlorite.	B237	991.0	996.0	5.0	0.02		
996	1004	<u>CHLORITIC BRECCIA</u> 0-15% A contacts (extending over stated limits, especially at lower end). ~ 60% chlorite, ~ 25% red fragments, < 10% brick red portions (subparallel to core axis), ~ 5% white carbonate fillings. Minute cracks holding calcite. Minor Py only.							
		B238: Minor Py. Chloritic breccia, 10% red portions.	B238	996.0	1001.0	5.0	0.05	0.05	0.05

Falconbridge Ltd.

HOLE NO: 620-13

PAGE: 20 of 30

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
1004	1106	<p>8239: Minor Py. Greyish (red & black); 40% chlorite, > 50% red.</p> <p><u>ALTERED PORPHYRITIC SYENITE</u></p> <p>Pinkish through reddish grey to brickish red (local bright brick red), hematized and silicified often minutely fractured porphyritic syenite (pinkish grey prior to alteration).</p> <p>Locally, strong development of chloritic brecciated intervals (often with minor to some calcite): 1035.5-1036.5, 1064-1068, 1072-1076.</p> <p>Frequently some quartz stringers & fillings (especially in lower half where they reach > 20% locally), often with diffuse contacts.</p>	8239	1001.0	1004.0	3.0	0.04			
		8240: Minor Py. 1/4 chloritic brecciated; 3/4 brick red fractured.	8240	1004.0	1006.0	2.0	0.04			
		8241: Minor Py. ~ 3% chloritic brecciated; > 1% quartz stringers; finely fractured.	8241	1006.0	1011.0	5.0	0.03			
		8242: ~ 1/8% Py (disseminated in upper half); < 1/2% quartz stringers; finely fractured.	8242	1011.0	1016.0	5.0	0.03			
		8243: Minor Py. ~ 7% chloritic brecciated (upper third); brickish red.	8243	1016.0	1021.0	5.0	0.01			
		8244: Minor Py. < 1/2% quartz stringers; brickish red.	8244	1021.0	1026.0	5.0	0.01			

Falconbridge Ltd.

HOLE NO: 620-13

PAGE: 21 of 30

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton	REJECT		AVERAGE
		8245: Minor Py. 10% brick red.	8245	1026.0	1031.0	5.0	0.02			
		8246: < 1/8% Py. 25% brick red.	8246	1031.0	1035.5	4.5	0.02			
		8247: ~ 1/8% Py (mostly in red). 0.5' chlorite-rich.	8247	1035.5	1036.5	1.0	0.02			
		8248: > 1/4% Py. Brick red.	8248	1036.5	1038.0	1.5	0.01			
		8249: ~ 1/8% Py (disseminated). ~ 1% diffuse quartz stringers & fillings.	8249	1038.0	1044.0	6.0	0.02			
		8250: ~ 3/8% Py (disseminated). > 1% diffuse quartz stringers & fillings.	8250	1044.0	1049.0	5.0	0.01			
		8251: ~ 1/8% Py (disseminated). > 2% diffuse quartz stringers & fillings.	8251	1049.0	1054.0	5.0	Tr.			
		8252: < 1/8% Py (very fine-grained). > 2% diffuse quartz stringers & fillings.	8252	1054.0	1059.0	5.0	Tr.			
		8253: < 1/4% Py (very fine-grained). ~ 1/2% diffuse quartz stringers & fillings.	8253	1059.0	1064.0	5.0	0.01			
		8254: < 1/4% Py (fine & very fine-grained). ~ 1/4% quartz stringers; brecciated & finely fractured.	8254	1064.0	1068.0	4.0	0.03			
		8255: > 1/4% Py (segregations). > 1% quartz stringers; 1/2% calcite.	8255	1068.0	1072.0	4.0	0.03			
		8256: Minor Py. 1/2% quartz stringers; brecciated, in places chloritic, finely fractured.	8256	1072.0	1076.0	4.0	0.05	0.04		0.045
		8257: < 1/8% Py (very fine-grained). ~ 1/2% quartz stringers.	8257	1076.0	1081.0	5.0	0.01			
		8258: < 1/8% Py (very fine-grained). < 1/2% quartz stringers.	8258	1081.0	1086.5	5.5	0.02			

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HOLE NO: 620-13

PAGE: 22 of 30

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./Ton	REJECT	AVERAGE
		8259: > 1/8% Py. somewhat brecciated, fair reddish over 2'; ~ 1/4% quartz stringers.	8259	1086.5	1091.5	5.0	Tr.		
		8260: > 1/2% Py (in sericitized/chloritized & disseminated in red). > 30% greyish quartz fillings & stringers.	8260	1091.5	1094.0	2.5	0.01		
		8261: I dem # 8260 (plus stringer of Py).	8261	1094.0	1099.5	5.5	0.02		
		8262: > 1/2% Py. < 10% quartz stringers & fillings (diffuse borders).	8262	1099.5	1102.0	2.5	0.01		
		8263: ~ 1/4% Py. ~ 10% quartz stringers and fillings (diffuse borders).	8263	1102.0	1106.0	4.0	0.03		
1106	1122	<u>PINKISH GREY PORPHYRITIC SYENITE</u> Holding some short reddish intersections as well as some very quartzose portions in places. Very blocky core (drill broken). Very low Py. (1106-1108.5, 1119-1122): brecciated & chloritic.							
		8264: Minor Py. Brecciated silicified syenite; 10% chlorite in lower half.	8264	1106.0	1108.5	2.5	0.06	0.07	0.065
		8265: < 1/8% Py (very fine-grained). Upper 2/3 holding close to 50% quartz fillings.	8265	1108.5	1110.2	1.7	Tr.		
		8266: < 1/8% Py. Fractured pinkish grey syenite; ~ 1/2% quartz stringers.	8266	1110.2	1115.2	5.0	Tr.		
		8267: Control. ~ 3% diffuse quartz stringers (or patches).	8267	1115.2	1119.0	3.8	Tr.		
		8268: Control.	8268	1119.0	1122.0	3.0	0.01		

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HOLE NO: 620-13

PAGE: 23 of 30

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./Ton	REJECT	AVERAGE
1122	1145	<u>RED ALTERED FELDSPAR PORPHYRY</u> Medium to coarse-grained feldspar porphyry, partly granulated. Very blocky core (drill broken). Minor Py only. (1138-1140, 1141-1142): pinkish grey porphyritic syenite inclusions. 8269: ~ 1/4% Py (in red upper 2'). ~10% quartz diffuse borders stringers. 8270: ~ 1/8% Py. 8271: < 1/8% Py. 8272: Control. 8273: > 1/8% Py. < 1% quartz stringers.	8269 8270 8271 8272 8273	1122.0 1127.0 1132.0 1138.0 1142.0	1127.0 1132.0 1138.0 1142.0 1145.0	5.0 5.0 6.0 4.0 3.0	0.02 0.02 0.02 0.02 0.02		
1145	1157	<u>QUARTZ VEINS (& stringers stockwork) IN PORPHYRY</u> (1145-1148, 1154-1155): mostly white, some greyish, quartz; < 5% inclusions of red porphy- ry. Minor Py. (1148-1154, 1155-1157): ~10% quartz stringers in red porphyry (~ 1/8% Py), plus 4" of quartz in two veinlets in the last foot. Lower contact (diabase): 20% A neat & some- what sheared. 8274: Minor Py; control. 90% quartz 8275: < 1/4% Py (in red porphyry). ~10% quartz stringers & fillings.	8274 8275	1145.0 1148.0	1148.0 1153.0	3.0 5.0	0.02 0.08	0.06	0.07

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HOLE NO: 620-13

PAGE: 24 of 30

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./Ton	REJECT	AVERAGE
1157	1181	<p>8276: ~ 1/8% Py (in quartz & red).</p> <p><u>DIABASE</u></p> <p>Blackish green fine to medium-grained to purplish tinge soot black very fine-grained; chilled over several feet at both ends (20°C/A contacts; well defined at upper end, visible on a cm. fragment at lower end).</p> <p>Magnetic; ~ 1% calcite stringers. No more than minor Py.</p> <p>Lost core: 1172 ~ 1174, 1177-1177.5.</p>	8276	1153.0	1157.0	4.0	0.52	0.43	0.475
		<p>B277: Control.</p>	8277	1157.0	1162.0	5.0	0.01	Tr.	Tr.
		<p>B960: Traces to no sulfides. Magnetic, iron black & dark grey diabase. Most of it fine to very fine-grained (< 2% greenish phenocrysts in places). Slight traces of calcite in the mass; ~ 2% calcitic stringers.</p>	8960	1162.0	1167.0	5.0	NIL		
		<p>B961: Traces to no sulfides. I dem #8960 (coarser phenocr); ≤ 1% calcitic stringers.</p>	8961	1167.0	1171.0	4.0	NIL		
		<p>B962: Traces to no sulfides, I dem #8960. 4.0' of core recovered.</p>	8962	1171.0	1176.0	5.0	NIL		
		<p>B278: Control.</p>	8278	1176.0	1181.0	5.0	Tr.	0.001	Tr.
1181	~1220	<p><u>PINKISH-REDDISH GREY PORPHYRITIC SYENITE</u></p> <p>(Similar to 1106-1122) Bright red & vitreous looking: 1188-1191.5, 1206-1207.</p>							

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HOLE NO: 620-13

PAGE: 25 of 30

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./TON	REJECT	AVERAGE
		Brecciated & chloritic: 1207-1208, 1213-1214.5, 1218-1220; foliation 40-50°A at 1214. Only minor Py. Lost core: 1204-1204.5, 1219-1220.5.							
		8279: < 1/8% Py; control. Greyish brown; < 1% quartz stringers.	8279	1181.0	1184.5	3.5	0.10	0.08	0.09
		8280: ~ 1/4% Py. Reddish brown; lowest foot brick red; < 1% quartz stringers.	8280	1184.5	1189.5	5.0	0.02		
		8281: < 1/8% Py. Red; ~ 1/4% quartz stringers.	8281	1189.5	1193.0	3.5	0.03		
		8282: < 1/8% Py. 3' pinkish grey, 2' reddish. ~ 1/2% quartz stringers.	8282	1193.0	1198.0	5.0	0.02		
		8283: < 1/8% Py. Pinkish grey, a little reddish. ~ 1/2% quartz stringers.	8283	1198.0	1203.0	5.0	0.07	0.05	0.06
		8284: Minor Py. Mostly pinkish grey, 1' pale reddish.	8284	1203.0	1207.0	4.0	0.02		
		8285: < 1/8% Py. More than half grey brecciated & minutely fractured, with films of chlorite. 3.5' of core recovered.	8285	1207.0	1208.0	1.0	0.04		
		8286: < 1/8% Py. 2' red; brecciated at two places.	8286	1208.0	1213.0	5.0	0.05	0.04	0.045
		8287: Minor Py. Finely laminated reddish blackish.	8287	1213.0	1214.5	1.5	0.02		
		8288: Minor Py. Vitreous-looking; both ends brecciated. 4.5' of core recovered.	8288	1214.5	1220.5	6.0	0.03		
~1220	1270	<u>BRICK RED FELDSPAR PORPHYRY</u> Mostly brecciated & altered (medium-grained granulated) feldspar porphyry;							

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HOLE NO: 620-13

PAGE: 26 of 30

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Average oz./ton	REJECT		AVERAGE
		locally lighter discoloured. ~ 5% quartz stringer from 1242 to 1246. Often chlorite film & somewhat brecciated; 1220-1236 & 1257 ~ 1265. In places, < 1% Py. Quite blocky core. Lost core: 1229.5-1226, 1229-1230, 1232-1233, 1235-1236, 1239.5-1240, 1249-1249.5, 1254-1255.								
		8289: Minor Py; control. Reddish, brecciated. 4' of core recovered.	8289	1220.5	1225.0	4.5	0.09	0.14		0.115
		8290: Idem # 8289. 3' of core recovered.	8290	1225.0	1230.0	5.0	0.03			
		8291: Idem # 8289. 4' of core recovered.	8291	1230.0	1236.0	6.0	0.01			
		8292: > 1/8% Py; control. Brick red. 4.5' of core recovered.	8292	1236.0	1241.0	5.0	0.04			
		8293: Idem # 8292, 5% quartz stringers.	8293	1241.0	1246.0	5.0	0.03			
		8294: > 1/8% Py; control. Brick red. 4.5' of core recovered.	8294	1246.0	1251.0	5.0	0.02			
		8295: ~ 1/8% Py; control. Brick red. 3' of co- re recovered.	8295	1251.0	1255.0	4.0	0.02			
		8296: Idem # 8295.	8296	1255.0	1260.0	5.0	0.01			
		8297: Minor Py; control. Dark reddish.	8297	1260.0	1265.0	5.0	0.02			
		8298: Idem # 8297.	8298	1265.0	1270.0	5.0	0.01			
1270	1284	<u>PINKISH-REDDISH GREY PORPHYRITIC SYENITE</u> (Similar to 1106-1122) Several minute fractures. Grey over one foot at lower contact. Traces to minor Py.								

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HOLE NO: 620-13

PAGE: 27 of 30

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz/ton			
		8299: Minor Py; control. Dark reddish.	8299	1270.0	1275.0	5.0	0.02			
		8300: I dem # 8299.	8300	1275.0	1280.0	5.0	0.03			
		8301: I dem # 8299, last foot grey (due to diabase).	8301	1280.0	1284.0	4.0	0.02			
1284	1294	<u>DIABASE</u> Similar to 1157-1181, except all fine-grained & < 1/4% carbonate stringers. Upper contact ~ 15°CA, lower ~ 20-30°CA.								
		8302: Minor Py; control. Dark grey, fine-grained & chilled.	8302	1284.0	1289.0	5.0	Tr.			
		8394: Minor Py; control.	8394	1289.0	1295.0	6.0	Tr.			
1294	1503	<u>PINKISH GREY PORPHYRITIC SYENITE</u> Usually medium-grained feldspar phenocrysts. Darker grey at depth (even basic syenite near the end). Red altered in places; some mafics locally. Between 1350 & 1375, 2-5% quartz stringers in places (usually some Py nearby). (1331-1334, 1345-1349): more basic composition, blackish. Three somewhat irregular contacts (high angle with core axis), the fourth and lowest contact being								

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HOLE NO: 620-13

PAGE: 28 of 30

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
		<p>being not very definite ($\approx 30^\circ\text{C/A}$).</p> <p>(1319.5-1331, 1334-1339, 1395-1398, 1428-1429, 1468, 1470-1473): brick red altered lath feldspar porphyry; not so altered below 1468.</p> <p>(1349-1351, 1352.5-1358): bright red altered near quartz stringers, lighter colored along several cracks.</p> <p>(1364-1367.5): $\sim 50\%$ inclusions of chloritized mafic rocks.</p> <p>Usually only minor Py, except in some red lath porphyries.</p>								
		8303: Minor Py; control. 6" brick red.	8303	1295.0	1300.0	5.0	0.02			
		8963: Minor to $< 1/8\%$ Py. A little pinkish altered purplish grey porphyritic syenite; $\sim 15\%$ somewhat more reddish; 10% greenstone inclusions.	8963	1300.0	1305.0	5.0	Tr.			
		8964: I dem # 8963, central third being somewhat more reddish.	8964	1305.0	1309.5	4.5	NIL			
		8965: $\geq 1/8\%$ Py (fine-grained disseminations), mostly in red/some in pinkish grey. I dem # 8963, lowest $2/5$ being nearly brick red altered.	8965	1309.5	1314.5	5.0	NIL			
		8966: $< 1/8\%$ Py (very fine-grained disseminations). I dem # 8963, but practically no	8966	1314.5	1319.5	5.0	NIL			

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HOLE NO: 620-13

PAGE: 29 of 30

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		<i>more reddish altered part.</i>								
		B304: < 1/8% Py; control. Bright red.	B304	1319.5	1324.5	5.0	0.02			
		B305: < 1/4% Py; control. Red lath feldspar porphyry.	B305	1324.5	1330.0	5.5	0.02			
		B306: Minor Py; control.	B306	1330.0	1334.0	5.0	0.03			
		B307: > 1/4% Py; control. Red lath feldspar porphyry.	B307	1334.0	1339.0	5.0	0.02			
		B308: < 1/8% Py; control.	B308	1339.0	1345.0	6.0	Tr.			
		B309: Minor Py; control.	B309	1345.0	1349.0	5.0	Tr.			
		B310: ~ 1/8% Py; control. Bright red; ~3% quartz (subparallel stringers).	B310	1349.0	1354.0	5.0	Tr.			
		B311: I dem # B310, but 5% quartz.	B311	1354.0	1359.0	5.0	0.02			
		B312: ~ 1/8% Py; control. Some bright red.	B312	1359.0	1364.0	5.0	Tr.			
		B313: < 1/8% Py (in 6" of red). 50% mafic inclusions.	B313	1364.0	1367.5	3.5	0.01			
		B314: > 1/4% Py (in red). >2% quartz stringers.	B314	1367.5	1371.0	3.5	Tr.			
		B315: Minor Py; control. ~2% quartz stringers.	B315	1371.0	1375.0	4.0	Tr.			
		B316: < 1/8% Py (in reddish); control.	B316	1375.0	1380.0	5.0	Tr.			
		B317: Minor Py; control.	B317	1380.0	1385.0	5.0	NIL			
		B318: Minor Py; control.	B318	1385.0	1390.0	5.0	NIL			
		B319: Minor Py; control.	B319	1390.0	1394.0	4.0	Tr.			
		B320: ~ 1/4% Py (very fine-grained, doubtful estimate). Greyish laminated (~30% A) fine-grained streaks in more mafic portion. Possibly higher Py (dust).	B320	1394.0	1395.3	1.3	Tr.			
		B321: > 1/4% Py (in red). 3' lath feldspar porphyry.	B321	1395.3	1400.3	5.0	0.01			

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HOLE NO: 620-13

PAGE: 30 of 30

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		B322: Minor Py; control. Darker reddish-grey porphyritic syenite with dm. grey portions (inclusions or maybe tuffaceous bands ~ 50-40°C/A).	B322	1400.3	1405.3	5.0	Tr.			
		B333: < 1/8% Py (in red); control. < 1% diffuse quartz stringers. > 1' reddish	B333	1425.0	1430.0	5.0	Tr.			
		B334: Minor Py; control. 4' lath feldspar porphyry; 1' reddish porphyritic syenite.	B334	1468.0	1473.0	5.0	Tr.			
	1503	<u>END OF HOLE.</u> Casing left in the hole; AW cap screwed on. A red painted wooden post, bearing an aluminum identification tag, was set into the ground next to the casing. * Etch tube dip determinations: -56° (306'), -56.5° (616'), -57° (900'), -52° (1200'), -52.5° (1500'). J. André Carrier 85 01 26								

AU GEOCHEMISTRY

Diamond Drill Hole no: 620-14

Township: MICHAUD

Log Summary		Geochemistry Sample				
Location (m) From To		Sample no.	Location (ft.) From To		Au (ppb)	Remarks
		620-14-01	{ 94	{ 101.5	24	{ coarser feldspar
			{ 131	{ 139.5		
		02	74	139.5	19	less former l
		03	{ 142.5	{ 147.5	47	{ coarser feldspar
			{ 157.5	{ 167.5		
		04	139.5	175	17	less former l
		05	175	181	29	magnetic
		06	181	230	19	
		07	230	284	35	
		08	284	292	54	
		09	292	295	227	
		620-14-10	295	330	276	
		11	330	400	60	
		12	400	412	51	
		13	412	480	6	
		14	480	489	41	
		15	489	525.5	160	
		16	525.5	550	10	
		17	550	570	11	
		18	570	586	17	
		19	586	597	3	fine-grained
		620-14-20	597	610	186	
		21	610	644	3963	
		22	644	675.5	530	
		23	675.5	707	148	
		24	707	754.5	382	
		620-14-25	754.5	795	396	
		NOS. 26 TO 30 DO NOT EXIST				
		620-14-31	795	809	71	
		32	809	884	1398	
		33	884	914	311	
		620-14-34	914	963	274	

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HOLE NO: 620-14 PAGE: 1 of 20

Drilled by: BRADLEY BROS. LIMITED

Property: MICHAUD BLOCK; PN-620

Latitude: 117+45N

Longitude: 320+54E

Started: 84 10 27

Township: of MICHAUD; claims { #40918
#40917

Azimuth: 0°

Dip: -60°(collar), *

Ended: 84 11 09

Logged by: J. ANDRÉ CARRIER

Élévation: ?

Length: 1486 feet

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	LENGTH				
0	67	NW casing.								
0	74	AW casing.								
~67	74	NX core								
74	1486	AQ wireline core (good to locally poor core recovery; good to locally poor R.Q.P.) laid into approximately 61 boxes.								
0	67	<u>OVERBURDEN</u> Sand resting on gravel with boulders.								
67	489	<u>MIXED FELDSPAR PORPHYRIES & SYENITES</u> Pinkish grey, through beige to reddish buff, to red feldspar porphyries, of complex more or less diffuse contacts & of varying coarse to fine-grained texture (probably often due to granulation of phenocrysts), often lath shape. Usually only locally magnetic (80-96 & ~245~255 somewhat magnetic, 175-182 fairly magnetic). Most evident relatively coarser feldspar portions: 94-101.5, 131-139.5, 142.5-147.5, 157.5-167.5, at 279, 284-289, at 333, at 391, 400-412.								

10

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HOLE NO: G20-14

PAGE: 2 of 20

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	A_v oz/ton		
		(175.0-181.0): Blackish purple brown, fine-grained, magnetic; 35% A_v (175'), ~35% (181').							
		(272.5-278.5): lighter reddish brown, medium-grained felsitic porphyry.							
		(191-272, 356-364, 374-400, 480-489): darker-yellow appearance of light color cm. to dm. streaks in quartz mass (due to bleaching along cracks). From 358 to 390, several quartz stringers & darker-yellow reddish streaks making ~50 ~ 35% A_v .							
		(292-295): 40% grey & 20% white quartz, with 15% reddish altered agnrite and 15% albitic material (mostly in upper part); ~2% Py in streaks & cm. bands.							
		[295-302, 334-341, 347-356, 427-489 (some dark magnetic)]: quite homogeneous purple-brownish grey porphyritic agnrite, gradual contact near 427; locally only minor Py.							
		8522: (whole NX core). < 1/8% Py (fine-grained & minor stringers); contact. Basal-pole altered.	8522	~67	74.0	~7.0	Tr.		
		8208: ~ 1/8% Py (very fine-grained); contact. 2" basals with quartz stringers (~40% A_v); 4' initial pink.	8208	74.0	79.0	5.0	Tr.		

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HOLE NO: 620-14

PAGE: 3 of 20

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
		B209: ~ 1/8% Py (fine-grained). 3' pale reddish.	B209	79.0	84.0	5.0	Tr.			
		B210: I dem [*] B209, plus 2' dark red. Control.	B210	84.0	89.0	5.0	Tr.			
		B212: ~ 1/8% Py (aggregates). 1/3 coarser-grained phenocrysts, 2/3 finer. Control.	B212	130.0	135.0	5.0	Tr.			
		B213: > 1/8% Py (aggregates). 3/4 coarse-grained phenocrysts. Control.	B213	135.0	140.0	5.0	Tr.			
		B214: > 1/8% Py. 10% mafic portion; 2' coarse lath feldspar. Control.	B214	140.0	145.0	5.0	Tr.			
		B215: < 1/8% Py (mostly in red siliceous last foot); control. 2.5' coarse lath feldspar.	B215	145.0	150.0	5.0	Tr.			
		B216: ~ 1/4% Py (streaks & disseminations). Relatively pale red.	B216	150.0	155.0	5.0	Tr.			
		B217: > 1/4% Py (streaks & disseminations).	B217	155.0	160.0	5.0	0.02			
		B218: < 1/4% Py (very fine-grained). Dark & magnetic.	B218	175.0	181.0	6.0	Tr.			
		B219: ~ 1/4% Py (disseminations & streaks).	B219	181.0	186.0	5.0	Tr.			
		B220: ~ 1/8% Py (disseminated).	B220	186.0	191.0	5.0	0.01			
		B221: > 1/8% Py. 1' finely granulated; 4' white & grey lath phenocrysts.	B221	284.0	289.0	5.0	Tr.			
		B222: ~ 1/2% Py. Whitish pink siliceous; Py found with sericite-chlorite patches & streaks.	B222	289.0	292.0	3.0	Tr.			
		B223: ~ 2% Py. 60% quartz (mostly grey).	B223	292.0	295.0	3.0	0.01			
		B224: ~ 1/8% Py. Pinkish grey porphyritic syenite.	B224	295.0	300.0	5.0	0.01			
		B225: Minor Py. < 1/2% quartz stringers.	B225	354.0	359.0	5.0	0.01			
		B226: < 1/8% Py. ~ 2% quartz stringers;	B226	359.0	364.0	5.0	0.01			

Falconbridge Ltd.

HOLE NO: 620-14

PAGE: 2 of 20

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
		(175.0-181.0): blackish purplish brown, finer-grained, magnetic; 35% (175'), ~35% (181').								
		(272.5-278.5): lighter reddish brown, medium-grained feldspar porphyry.								
		(191-272, 356-364, 374-400, 480-489): barber-pole appearance of light color cm. to dm. streaks in greyish mass (due to bleaching along cracks). From 358 to 390, several quartz stringers & barber-pole reddish streaks making ~50 ~ 35% Cu.								
		(292-295): 40% grey & 20% white quartz, with 15% reddish altered syenite and 15% chloritic material (mostly in upper foot); ~2% Py in streaks & cm. bands.								
		[295-302, 334-341, 347-356, 427-489 (somewhat magnetic)]: quite homogeneous purplish pinkish grey porphyritic syenite, gradual contact near 427; locally only minor Py.								
		B522: (whole NX core). < 1/8% Py (fine-grained & micro-stringers); control. Barber-pole altered.	B522	~67	74.0	~7.0	Tr.			
		B208: ~1/8% Py (very fine-grained); control. 2" breccia with quartz stringers (~40% Cu); 4' whitish pink.	B208	74.0	79.0	5.0	Tr.			

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HOLE NO: 620-14

PAGE: 4 of 20

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		2' reddish.								
		B227: Minor Py. Reddish (greyish altered mafic).	B227	364.0	368.0	4.0	0.01			
		B228: Minor Py. ~ 1/4% quartz stringers (barber-pole developing).	B228	368.0	371.0	3.0	0.01			
		B229: Minor Py. ~ 4% quartz stringers; 1' greyish porphyritic syenite.	B229	371.0	375.0	4.0	Tr.			
		B230: ~ 1/8% Py. > 1/2% quartz stringers.	B230	375.0	380.0	5.0	0.02			
		B231: < 1/8% Py. ~ 1/4% quartz stringers.	B231	380.0	385.0	5.0	0.01			
		B236: < 1/4% Py (in reddish streaks & aggregates). ~ 20% reddish discoloured.	B236	385.0	390.0	5.0	Tr.			
		B232: > 1/8% Py (aggregates). 4' coarse lath phenocrysts.	B232	407.0	412.0	5.0	Tr.			
		B233: ~ 1/4% Py (aggregates & disseminations). 2.5' reddish; Py found with sericitic-chloritic blebs.	B233	412.0	417.0	5.0	Tr.			
		B234: Minor Py; control.	B234	417.0	422.0	5.0	Tr.			
		B235: Minor Py; control. 3/4% quartz stringers.	B235	422.0	427.0	5.0	Tr.			
		B323: Minor Py; control. ~ 20% barber-pole reddish.	B323	484.0	489.0	5.0	Tr.			
489	525.5	<u>RED ALTERED LATH FELDSPAR PORPHYRY</u> Coarse phenocrysts (several whitish) in the center of the intersection, more medium grained near the ends (especially below 517) Not much magnetic. Locally > 1% Py.								

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HOLE NO: 620-14

PAGE: 5 of 20

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
		Upper contact ~ 25°C/A; lower contact 30°C/A. Lower end location approximate because the reddish alteration reaches 528.								
		B324: < 1% Py (fine & medium-grained, disseminations in red). Coarse feldspar phenocr (several being whitish grey).	B324	489.0	494.0	5.0	0.02			
		B325: ~ 1/8% Py; I dem # B324.	B325	494.0	499.0	5.0	0.01			
		B326: ~ 1/8% Py; I dem # B324.	B326	499.0	504.0	5.0	0.01			
		B327: > 1/8% Py; I dem # B324.	B327	504.0	509.0	5.0	0.01			
		B328: > 1/8% Py; I dem # B324.	B328	509.0	514.0	5.0	0.01			
		B329: < 1/8% Py; I dem # B324.	B329	514.0	517.0	3.0	Tr.			
		B330: < 1/8% Py. Darker reddish & no coarse feldspar phenocrysts.	B330	517.0	522.0	5.0	0.01			
		B331: ~ 1/8% Py. Some granulated phenocr.	B331	522.0	527.0	5.0	0.02			
525.5	570	<u>PINKISH GREY PORPHYRITIC SYENITE</u> (Similar to 427-489, except ~ 15% basic rocks admixture and inclusions between 550 and 560). Locally, some tendency to darker-pole pinkish red alteration. Practically non-magmatic. Only minor Py. B332: Minor Py; control. ~ 1' reddish.	B332	527.0	532.0	5.0	Tr.			

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HOLE NO: 620-14

PAGE: 6 of 20

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz/ton			
570	597	<p><u>BASALT & GABBRO</u></p> <p>Dark to blackish green. Rather fine-grained to 586 and called basalt; magnetic in places (especially 583-585). Fine to medium-grained 586~597 and called gabbro (it is lamprophyre-like with ~20% altered hornblende phenor).</p> <p>~45° upper contact; ~45° lower contact (less defined).</p> <p>8335: No visible sulfides; control.</p> <p>8336: I dem # 8335.</p>								
			8335	570.0	575.0	5.0	Tr.			
			8336	592.0	597.0	5.0	Tr.			
597	644	<p><u>MIXED FACIES OF LATH FELDSPAR PORPHYRIES</u></p> <p>Red to reddish silvery grey; coarse to medium-grained usually. Several finer-grained portions (granulated sections as well as altered or partly digested inclusions). Frequently holding light grey altered mafics.</p> <p>Below 610, usually minor to little Py.</p> <p>(~599-604): admixture of mafic material and of lamprophyre-like gabbro.</p> <p>(597-599, ~half of 604-609.5): fine-grained, somewhat sharn-like, greyish brown, probably granulated & metamorphosed. Py dust-bearing at several places & mixed with</p>								

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HOLE NO: 620-14

PAGE: 7 of 20

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz/ton	REJECT		AVERAGE
		<i>some red felsitic portions & fragments.</i>								
		B337: > 1/8% Py (very fine-grained upper end). <i>Fine-grained, brownish grey shorn-like; laminated ~70% A at upper end.</i>	B337	597.0	599.5	2.5	0.02			
		B338: <i>Minor sulfides. Dark lamprophyric ma- terial.</i>	B338	599.5	601.5	2.0	Tr.			
		B339: < 1/8% Py. <i>Mostly dark lamprophyric material; ~5% reddish felsic.</i>	B339	601.5	604.0	2.5	Tr.			
		B340: ~ 1/8% Py (very fine-grained). <i>More than half reddish altered; somewhat lamina- ted ~80% A at lower end.</i>	B340	604.0	606.5	2.5	Tr.			
		B341: > 1/8% Py (fine-grained). <i>> 1/2 reddish vitreous-looking.</i>	B341	606.5	609.5	3.0	0.01			
		B342: < 1/8% Py (fine-grained). <i>> 20% light grey altered mafic minerals.</i>	B342	609.5	613.5	4.0	0.02			
		B343: ~ 1/8% Py (fine-grained). <i>> 1/2 reddish.</i>	B343	613.5	618.0	4.5	0.02			
		B344: < 1/8% Py (in reddish matrix).	B344	618.0	623.5	5.5	0.02			
		B926: ≥ 1/4% Py (fine-grained disseminations & aggregates). <i>Partly granulated both feldspar porphyry & syenite; greyish red, ~5% greyish altered mafic mine- rals.</i>	B926	623.5	629.0	5.5	0.03			
		B927: ≥ 1/8% Py. <i>Similar # B926, except 1' very siliceous, translucent-looking & holding most of the Py.</i>	B927	629.0	634.0	5.0	0.06	0.05		0.055
		B928: < 1/4% Py (disseminated). <i>Upper 3/4</i>	B928	634.0	639.0	5.0	0.04			

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HOLE NO: 620-14

PAGE: 8 of 20

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton	REJECT	AVERAGE
644	707	<p>similar to #8926 with local reddish alteration; lowest 1/4 brickish red.</p> <p>B345: > 1/4% Py (fine-grained). Most rock is reddish hematized (often medium-grained).</p> <p><u>PINKISH GREY PORPHYRITIC SYENITE</u></p> <p>Mixed facies (with locally light red discoloured and various abundance and grain size of the phenocrysts). Occasional blocky core.</p> <p>Usually minor Py; a little Py locally in lower half.</p> <p>(651.5-654.5, half of 661.5-666, 668-675.5); lath feldspar porphyry portions; coarse to some medium-grained phenos, variable appearance and arrangement of phenos; somewhat magnetic.</p>	B345	639.0	644.0	5.0	0.18	0.17	0.175
		B346: < 1/8% Py (fine-grained). Most rock is beige greyish somewhat vitreous-looking; upper end foliated ~ 80°C/A.	B346	644.0	649.0	5.0	0.04		
		B347: Minor Py. Rock is vitreous-looking; 1/2 light pink, 1/2 dark grey.	B347	649.0	651.5	2.5	0.01		
		B348: < 1/8% Py (fine-grained). Feldspar porphyry with grey altered mafics in places.	B348	651.5	654.5	3.0	0.02		
		B349: ~ 1/8% Py (fine-grained); control. Purplish grey, some dark reddish.	B349	702.0	707.0	5.0	0.03		

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HOLE NO: 620-14

PAGE: 9 of 20

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	LENGTH	Au oz./ton			
707	754.5	<u>REDDISH LATH FELDSPAR PORPHYRY</u> Coarse to very coarse-grained feldspar phenocrysts (often whitish-grey). Occasionally some admixture or finer-grained granulated portions. The matrix is often red hematized.								
		B350: ~ 1/8% Py (fine-grained); control. Bright red.	B350	707.0	712.0	5.0	Tr.			
		B371: ≤ 1/8% Py (fine-grained). Brick red matrix, coarse feldspar phenocrysts.	B371	712.0	717.0	5.0	0.03			
		B372: Idem # B371; (719-720; dark brown; ~ 50°C/A neat contacts).	B372	717.0	722.0	5.0	0.01			
		B373: Idem # B371; some darker red lower end.	B373	722.0	727.0	5.0	0.01			
		B374: Idem # B371; some greyish red lower end.	B374	744.5	749.5	5.0	0.02			
		B375: Idem # B371; finer-grained lower end, 6" vitreous pink.	B375	749.5	754.5	5.0	0.02			
754.5	~809	<u>REDDISH TO PINKISH GREY PORPHYRITIC SYENITE</u> Similar to 644-707; but more intensely reddish altered, and so at more places; some barber-pole (mostly below 795). (799-810): gradual change to lower basic feldted syenite.								
		B376: Minor Py (fine-grained). Fine to medium-grained more greyish than reddish portions.	B376	754.5	759.5	5.0	0.02			

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HOLE NO: 620-14

PAGE: 10 of 20

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		8377: Minor Py (fine-grained). Fine to medium-grained purplish & reddish.	8377	777.0	782.0	5.0	0.01			
		8378: < 1/8% Py (fine-grained). Fine to medium-grained mostly bright & brick red.	8378	782.0	787.0	5.0	0.03			
		8379: > 1/8% Py (fine-grained, mostly in bright red). ~ half dark reddish (purplish brown).	8379	787.0	792.0	5.0	0.03			
		8380: ~ 1/8% Py (fine-grained, mostly in bright red). ~ half reddish (brown).	8380	792.0	797.0	5.0	0.01			
		8381: < 1/8% Py (fine-grained, mostly in bright red). ~ half mafic richer.	8381	804.0	809.0	5.0	Tr.			
~809	~884	<u>SOMEWHAT BASIC & FELTED SYENITE</u> Relatively homogeneous & fresh-looking, pinkish greyish green, medium-grained syenite. A little magnetic. Some reddish alteration in places.								
		8382: Minor Py; control. Very little red.	8382	809.0	814.0	5.0	Tr.			
		8929: Minor Py (very fine to fine-grained). Pinkish grey medium-grained syenite; somewhat dark purplish tinge in lower half; ~ 1% quartz stringer.	8929	814.0	819.0	5.0	NIL			
		8930: Idem # 8929, but no quartz stringer & one plum-size black inclusion.	8930	819.0	823.0	4.0	Tr.			
		8383: ~ 1/2% Py (in finer-grained red & medium-grained red fractured).	8383	823.0	824.3	1.3	0.03			

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HOLE NO: 620-14

PAGE: 11 of 20

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton	REJECT	AVERAGE
		8384: > 1/8% Py (single grains & trains). Reddish purplish grey.	8384	842.5	847.5	5.0	0.10	0.18	0.14
		8385: ~ 1/8% Py (single grains & trains). 3' of reddish purplish grey; 2' of grey.	8385	847.5	852.5	5.0	0.02		
		8931: Similar to # 8929, greenish tinge at upper end; somewhat patchy in lower 1/3.	8931	852.5	857.5	5.0	0.01		
		8932: Similar to # 8931, last foot purplish red & finer-grained.	8932	857.5	862.5	5.0	0.02		
~884	914	<u>REDDISH ALTERED FELTED SYENITE</u> Transitional between both adjacent rock types. Reddish alteration invading the rock mass or following cm. to dm. layers (leaving felted syenite portions and occasional nodular patches). A little magnetic.							
		8386: Minor Py. Reddish grey felted syenite.	8386	884.0	889.0	5.0	0.01		
		8387: Minor Py. Pinkish grey felted syenite.	8387	909.0	914.0	5.0	0.01		
914	963	<u>MIXED REDDISH ALTERED SYENITES (& FELSITES ?)</u> Little to non-magnetic. Dark reddish brown to pale brownish red. Slightly altered pinkish grey porphyritic syenite (fine to medium-grained phenocrysts); brick red hematized finely granulated zones; whitish brown patches spotted, vitreous and							

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HOLE NO: 620-14

PAGE: 12 of 20

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
		felicitic-looking, portions (bearing fine-grained phenocrysts in places), probably often derived from lath feldspar porphyry. (919-920): pinkish grey fine-grained band or dykelet (30° C/A).								
		B388: ~ 1/8% Py (sometimes following 40°C/A minute fractures). Dark reddish; trace of carbonate (with calcite).	B388	914.0	919.0	5.0	0.01			
		B389: < 1/8% Py. 2' pale reddish altered, 3' pinkish grey syenite.	B389	940.0	945.0	5.0	Tr.			
		B390: < 1/4% Py. Vitreous-looking whitish red, < 2' with mm. phenocrysts.	B390	945.0	950.0	5.0	0.02			
		B391: < 1/4% Py. Bright red.	B391	950.0	955.0	5.0	0.02			
		B392: < 1/8% Py. Bright red, some chlorite films on joints.	B392	955.0	960.0	5.0	0.01			
963	1201.5	<u>ALTERED PINKISH GREY PORPHYRITIC SYENITE</u> Barber-pole appearance (with reddish portions often developed from 45-55°C/A tiny quartz stringers) and patches of grey left at several places. Occasional cm. blackish chloritized layer. Little Py. (999-1091): less altered (darker grey) except locally in and near some lath porphyries. (half of 1005-1119, 1033-1037.5, 1049-1053,								

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HOLE NO: 620-14

PAGE: 13 of 20

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		1092-1099.5, 1190.5-1192.5): red to reddish grey lath feldspar porphyry.								
		(1141-1143.5, 1170-1176): more mafic fine-grained somewhat foliated (tuff-like) layers; the last intersection is calcite-bearing.								
		(1157.5-1159): blackish chloritic mm. brecciated zone. Some brick red fragments; calcite-bearing matrix. Fracturing with some chlorite in cracks extending a foot on both sides of the brecciated zone.								
		(1160-1170): dark red granulated slightly mafic syenite.								
		B395: < 1/8% Py; control. ~ 15% grey.	B395	980.0	985.0	5.0	Tr.			
		B396: ~ 1/4% Py (in red). 2.5' red; 1' vitreous on altered greyish green (former shear?) at 999.	B396	995.0	1000.0	5.0	0.02			
		B397: < 1/8% Py. 2' red lath porphyry; 3' finer-grained reddish grey.	B397	1033.0	1038.0	5.0	Tr.			
		B398: Minor Py; control. 4' reddish lath feldspar porphyry; 1' pinkish grey (subparallel to ^{C/A} contact).	B398	1048.0	1053.0	5.0	Tr.			
		B403: Minor Py; control. ~ 15% red.	B403	1087.0	1092.0	5.0	Tr.			
		B404: > 1/8% Py. Medium to coarse-grained lath feldspar porphyry.	B404	1092.0	1097.0	5.0	Tr.			
		B405: < 1/8% Py; control. Medium to	B405	1097.0	1099.5	2.5	Tr.			

Falconbridge Ltd.

HOLE NO: 620-14

PAGE: 14 of 20

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
		<i>coarse-grained lath feldspar porphyry.</i>								
		B406: < 1/4% Py. Reddish-grey porphyritic.	B406	1099.5	1104.5	5.0	Tr.			
		B933: ≤ 1/4% Py (fine-grained disseminations).	B933	1104.5	1110.0	5.5	0.03			
		<i>Dark greyish red granulated feldspar porphyry & syenite.</i>								
		B934: ~ 1/8% Py (fine-grained disseminations).	B934	1110.0	1113.0	3.0	Tr.			
		<i>Upper foot idem # B933; last 2' brick red altered feldspar porphyry.</i>								
		B935: ≤ 1/8% Py (fine-grained disseminated).	B935	1113.0	1116.0	3.0	0.01			
		<i>Similar to # B933 with 15-20% brick red.</i>								
		B936: ≤ 1/8% Py (fine to very fine-grained disseminations). Red altered purplish grey porphyritic syenite; ~ 15% brick red portions.	B936	1116.0	1121.0	5.0	Tr.			
		B937: ≤ 1/8% Py (fine to very fine-grained disseminations). Idem # B936; 20% brick red portions.	B937	1121.0	1126.0	5.0	0.02			
		B938: ~ 1/8% Py (fine-grained disseminations, cubes). Similar to # B936, but < 5% brick red; 2-3% fine-grained siliceous near lower end.	B938	1126.0	1131.0	5.0	0.02			
		B939: ≥ 1/8% Py (fine-grained disseminations). Similar to # B936, little brick red; ~ 5% fine-grained & siliceous translucent-looking near upper end & near 1134.5.	B939	1131.0	1136.0	5.0	0.03			
		B459: ~ 1/8% Py. Medium-grained reddish.	B459	1136.0	1141.0	5.0	0.03			
		B460: Minor Py (fine-grained disseminations).	B460	1141.0	1143.5	2.5	0.03			

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HOLE NO: 620-14

PAGE: 15 of 20

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		Mafic fine-grained portion, ~ 4% greyish white quartz stringers network.								
		B940: < 1/8% Py (fine-grained disseminations). Red altered purplish grey porphyritic syenite (local fine-grained silicification), including some granulated feldspar porphyry.	B940	1143.5	1148.5	5.0	0.04			
		B941: < 1/8% Py. Similar to # B940, but including more dark red granulated lath feldspar porphyry. ~ 1% whitish quartz stringers.	B941	1148.5	1154.0	5.5	0.02			
		B461: < 1/8% Py (very fine-grained disseminations). Reddish grey fractured with ~ 5% greyish white quartz stringers network.	B461	1154.0	1157.5	3.5	0.04			
		B462: Minor Py; control. ~ 50% chlorite; fragments of ≤ 2 mm, some very fine-grained.	B462	1157.5	1159.0	1.5	0.03			
		B463: Minor Py (upper end); control. Reddish (granulated?), well relicthified.	B463	1159.0	1164.5	5.5	Tr.			
		B464: Minor Py; control. Similar to # B463.	B464	1164.5	1170.0	5.5	Tr.			
		B465: Minor Py; control. Basic syenite, 5-10% > mm. blackish mafic minerals.	B465	1170.0	1176.0	6.0	Tr.			
		B466: > 1/8% Py (disseminated). Fractured and hematized coarse whitish feldspar phenos.	B466	1190.5	1192.5	2.0	Tr.			
		B467: ~ 1/8% Py (very fine-grained disseminations & stringer in reddish layer 1195-1196). Fine-grained porphyritic greyish syenite.	B467	1196.5	1201.5	5.0	Tr.			

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HOLE NO: 620-14

PAGE: 16 of 20

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
1201.5	1243	B468: Minor Py; control. Fine-grained porphyritic greyish syenite. LATH FELDSPAR PORPHYRIES (60%), GREY SYENITE (40%) Dark reddish to grey, coarse to medium-grained lath porphyries showing various textures & facies, locally brick red. Reddish grey porphyritic syenite, often holding some mafic minerals. Some Py found in coarse lath porphyry or vicinity.	B468	1196.5	1201.5	5.0	Tr.			
		B469: ~ 1/8% Py (disseminations & aggregates). Coarse to medium-grained lath feldspar porphyry.	B469	1201.5	1206.5	5.0	Tr.			
		B470: ~ 1/4% Py (disseminations & aggregates). Medium-grained feldspar porphyry with trachytic texture; some finer-grained portions not trachytic.	B470	1206.5	1211.5	5.0	Tr.			
		B471: ~ 1/8% Py (disseminations & aggregates in medium-grained lath feldspar one foot section). Mostly finer-grained dark greyish red porphyritic syenite.	B471	1211.5	1216.5	5.0	Tr.			
		B472: ~ 1/8% Py (aggregates in coarse-grained portions), 2/3 fine-grained dark reddish grey porphyritic syenite.	B472	1216.5	1219.5	3.0	Tr.			
		B473: ~ 1/2% Py (disseminated aggregates,	B473	1219.5	1224.5	5.0	Tr.			

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HOLE NO: 620-14

PAGE: 17 of 20

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
		mostly in coarser portions of lath feldspar porphyry).								
		B474: Minor Py; control. Dark reddish grey porphyritic syenite.	B474	1224.5	1229.5	5.0	Tr.			
		B475: Idem # B474.	B475	1229.5	1233.0	3.5	Tr.			
		B476: $\geq 1/2\%$ (disseminations & aggregates). Coarse lath feldspar porphyry (dark greyish to whitish phenocr fractured, up to 5% altered mafic locally).	B476	1233.0	1238.0	5.0	Tr.			
		B477: $< 1/8\%$ Py. 3' of rock idem # B476; ~2' pinkish grey fine to medium-grained altered (sericitized & chloritized) mafic syenite.	B477	1238.0	1243.0	5.0	Tr.			
1243	1486	<u>ALTERED PINKISH GREY PORPHYRITIC SYENITE</u> (Similar to 963-1201.5) Often holding small portions with medium to coarse feldspar phenocrysts; trachytic texture in places. Fine-grained with some medium-grained phenocr above 1363; medium-grained phenocr abundant below 1306 (suggestion of equigranular syenite - look in places). Darker in the last 100 feet. $< 1\%$ Py (fine-grained) present over several feet from 1261 to 1301.5 (1274-1275, 1276-1279, 1304-1306.5, 1314-1322,								

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HOLE NO: 620-14

PAGE: 18 of 20

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./Ton			
		1328-1330, 1351-1354, 1395-1397, 1405-1406): coarser plene feldspar porphyry. (1250-1252, 1255-1256, 1286, 1309-1311, 1377, 1379-1383.5, 1420-1423): blackish mafic por- tions, usually fine-grained, sometimes lamprophyre-looking. (1455-1460.5, 1463-1466): blackish, fine to medium-grained lamprophyre; little mag- netic.								
		B478: Minor Py; control. Little reddish.	B478	1243.0	1248.0	5.0	Tr.			
		B479: Minor Py; control. Lower contact near 40°C/A.	B479	1248.0	1249.5	1.5	Tr.			
		B480: < 1/8% Py (mostly at contacts). 15% pinkish grey porphyritic syenite (5" dyke- let, both contacts 50°C/A & ~30° between themselves).	B480	1249.5	1252.0	2.5	Tr.			
		B481: > 1/4% Py. Reddish & some coarse feld- spar syenite (contacts: 45° upper, ~40°C/A lower).	B481	1252.0	1255.0	3.0	Tr.			
		B482: Minor Py. 20% lamprophyre-like; lower contact 45°.	B482	1255.0	1259.5	4.5	Tr.			
		B483: < 1/8% Py (fine-grained near 1262).	B483	1259.5	1264.5	5.0	Tr.			
		B484: > 1/8% Py (fine-grained). Somewhat red- dish altered, also some fractured lath feldspar; traces of bluish black chlorite on slip.	B484	1264.5	1269.5	5.0	Tr.			
		B485: < 1/2% Py (fine-grained disseminations).	B485	1269.5	1273.5	4.0	Tr.			

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HOLE NO: 620-14

PAGE: 19 of 20

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		Reddish altered or barber-pole along 50°C/A fractures; minor bluish black chlorite.								
		B486: ~ 1/2% Py (fine-grained disseminations). 80% altered lath feldspar porphyry, some basic syenite; > 1/4% bluish black chlorite stringers & slips.	B486	1273.5	1278.5	5.0	Tr.			
		B487: Minor Py. Dark pinkish grey porphyritic syenite; ~ 1/8% bluish black chlorite.	B487	1278.5	1283.5	5.0	Tr.			
		B488: ~ 1/8% Py (in basic). 1/3 basic (lamprophyre-like).	B488	1283.5	1286.0	2.5	Tr.			
		B489: < 1/8% Py. Slight foliation (~ 50°C/A); < 1/8% bluish black chlorite.	B489	1286.0	1291.0	5.0	Tr.			
		B490: < 1/8% Py. mm. gouges on both sides of 1' bright red altered fractured syenite (some bluish-chlorite in it). Some bluish chlorite on slips & in the mass of the upper foot.	B490	1291.0	1296.0	5.0	Tr.			
		B491: ~ 1/8% Py. Some barber-pole; 3' grey, 2' altered lath feldspar porphyry.	B491	1296.0	1301.5	5.5	Tr.			
		B492: 1/2% Py (fine-grained & aggregates, disseminations). Altered lath feldspar porphyry.	B492	1312.0	1317.0	5.0	0.01			
		B493: < 1/8% Py (in lowest 1/3). Less altered lath feldspar porphyry; lowest 1/3 fractured and holding some chlorite film coatings.	B493	1317.0	1322.0	5.0	0.01			
		B494: ~ 1/8% Py. Bright & dull red altered syenite; a little bluish black chlorite.	B494	1322.0	1327.0	5.0	0.01			
		B495: Minor Py, minor galena, ~ 3% quartz	B495	1345.0	1351.0	6.0	Tr.			

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HOLE NO: 620-14

PAGE: 20 of 20

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz/ton			
		veinlet; galena found at contact of quartz veinlet and laminated 2" with bluish black chlorite.								
		B496: Minor Py. 70% blackish mafic syenite (possibly fine-grained lamprophyre).	B496	1377.0	1384.0	7.0	Tr.			
		B497: Minor Py. Mostly grey porphyritic sye- nite.	B497	1384.0	1389.0	5.0	Tr.			
		B498: ~ 1/8% Py. Reddish lath feldspar porphyry.	B498	1460.0	1463.0	3.0	Tr.			
		B499: Minor Py. Blackish lamprophyre (possi- bly basic syenite).	B499	1463.0	1466.0	3.0	Tr.			
1486		<u>END OF HOLE.</u> Casing left in the hole; AW caps screwed on. A red painted wooden post, bearing an aluminum identification tag, was set into the ground next to the casing. * Etch tube dip determinations: -60°(300'), -59°(600'), -57.5°(900'), -57°(1200'), -56.5°(1486'). J. André Carrier 85 01 26								

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HOLE NO: 620-15 PAGE: 1 of 10

Drilled by: BRADLEY BROS. LIMITED
 Started: 84 11 04
 Ended: 84 11 07

Property: MICHAUD BLOCK; PN-620
 Township: of MICHAUD; claim # 40932
 Logged by: J. ANDRÉ CARRIER

Latitude: 117+00N
 Azimuth: 180°
 Élévation: ?

Longitude: 386+00E
 Dip: -45° (collar), *
 Length: 622 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
0	200	NW casing								
0	222	AW casing								
224	622	AQ wireline core (good to locally poor core recovery, fair to locally poor R.Q.D.) laid into 17 boxes.								
0	222	<u>OVERBURDEN</u> 0-200: sand 200-222: gravel & water seam.								
222	382.0	<u>ALTERED BASIC TO ULTRABASIC ROCKS</u> Slight greenish dark bluish to blackish grey, fine-grained, magnetic. Chloritized and serpentinized; local shears and breccias frequently with some gouge. Near 344, slickensides 35° & 50°/A on slip planes 35° & 50°/A respectively. At 353, possible spinifex. 1 to 5% carbonates (with calcite) mm. to cm. stringers and fillings, sometimes talcose. Minor Py except local regroupings & layers (reaching several % over some inches).								

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HOLE NO: 620-15

PAGE: 2 of 10

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	A _v oz./ton			
		(355.5-359.5, also 378~379): blackish lamprophyre, non-magnetic, over 50% mm. black biotite; some % calcite. No good contact but chilled over some inches. Sheared near 355.5' contact (~75°C/A); from 355.5 to 359.5 some foliation ~40° to ~60°/A; near 378' contact, foliated ~75°C/A. Minor Py. At 378.5, one inch of pinkish grey suggy porphyritic felsite.								
		Lost core: 234.5-235, 314-315.5, 317-318, 323-324, 328-328.5, some inches near 378.5.								
		B424: ~3% Py (trains of grains following lamina-tions, fine to medium-grained); blackish fine-grained chloritized mafic to ultra-mafic rock	B424	231.0	232.0	1.0	Tr.			
		B425: ~1/8% Py (grains in stringers); ~3% carbonates talcose stringers; homogeneous blackish ultramafic rock.	B425	250.0	255.0	5.0	Tr.			
		B426: ~1/2% Py (disseminated but mostly bigger cubes in 1" portion of 4" breccia); homogeneous blackish ultramafic rock.	B426	255.0	260.0	5.0	Tr.			
		B427: ~1/8% Py (disseminated cubes); cm. brecciated (fractured in place) & cemented by carbonates (with calcite) somewhat talcose stringers & fillings; 3.5' core recovered.	B427	312.0	317.0	5.0	Tr.			

Falconbridge Ltd.

HOLE NO: 620-15

PAGE: 3 of 10

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au. oz./ton	S %		
		B428: <1/8% Py; rock idem B427, a little more schistose (~50°C/A); 4' core recovered	B428	317.0	322.0	5.0	Tr.			
		B429: Minor Py (fine-grained, disseminated); 5-10% carbonate stringers & fillings; rock idem B427 except gouge at 322 & 324; 4' of core recovered.	B429	322.0	327.0	5.0	Tr.			
		B430: Minor to traces of Py; blackish grey, fine-grained, basic to ultrabasic rock with lighter grey not so fine-grained and more calcite-bearing streaky bands; ~5% carbonate stringers.	B430	373.0	378.0	5.0	Tr.	0.12		
		B431: <1/4% Py (fine-grained disseminated); a little more basic than B430, some calcite, holding one inch of wuggy feldspar porphyry and six inches of black lamprophyre. 3.5' of core recovered.	B431	378.0	382.0	4.0	NIL	0.42		
382.0	394.5	<u>PINKISH GREY PORPHYRITIC FELSITE</u> Relatively homogeneous (some patches little pink, if at all). Somewhat translucent; non-magnetic. Near upper contact (30°C/A); near lower contact (75°C/A). Fractured cm. to inch-apart; either sutured by hairline whitish material (including								

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HOLE NO: 620-15

PAGE: 4 of 10

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton	S %		
		<p>traces of calcite) or coated with thin chlorite film. Some fractures are wuggy. Near lower end, increasing bluish black chlorite coatings & mm. stringers.</p> <p>1/8 to <1% Py, often fine-grained disseminated (also some 2-3 mm aggregates & occasional cm. elongated shapes below 388).</p>								
		<p>8432: ~1/2% Py (dust & fine-grained disseminated); most of the rock somewhat translucent, hard to scratch; fractured with hairline chlorite coatings. 1" chloritized inclusion & some fragments (oriented ~60°/A).</p>	8432	382.0	384.0	2.0	0.01	0.94		
		<p>8433: <1/2% Py (fine to mm. grained, disseminated); 6" of grey feldspar porphyry (mostly fine-grained, some medium-grained phenos.) with little Py; next foot similar 8432; last foot and a half similar 8434. Some inches of lost core.</p>	8433	384.0	387.0	3.0	.Tr.	0.99		
		<p>8434: <1/2% Py (fine to mm. grained, disseminated); cm. to inch-apart fractured of somewhat irregular plane, often coated with chlorite films (with some bluish</p>	8434	387.0	388.0	1.0	0.01	1.31		

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HOLE NO: 620-15

PAGE: 5 of 10

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton	S %		
		black tinge), sometimes waxy.								
		B435: > 1/2% Py (fine-grained disseminated, some aggregates > mm.); inch-apart fractures similar B434; more bluish black chlorite.	B435	388.0	390.0	2.0	Tr.	0.99		
		B436: ~3/4% Py (fine-grained disseminated, some aggregates, occasional cm long streaks); ~1/4% bluish black chlorite.	B436	390.0	392.0	2.0	Tr.	1.07		
		B437: < 3/4% Py (fine-grained disseminated, some aggregates, occasional cm long streaks); ~1% bluish black chlorite. ~1% olive yellowish honey mineral (some reddish tinge patches, soft, good cleavage, non fizzing with cold dilute HCl but accompanied with some calcite) in chlorite-bearing fractures (stringers) near 393.	B437	392.0	394.5	2.5	Tr.	1.02		
394.5	442.0	<u>ALTERED BASIC TO ULTRABASIC ROCKS</u> (Similar 222-382, except 5% carbonate stringers are more frequent). Magnetic, soft; most of it brecciated.								
		B438: ~1/8% Py (fine to very fine-grained disseminated); ~2% carbonate stringers; foliated (45-55°/A) and fractured	B438	394.5	399.5	5.0	Tr.	0.49		

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HOLE NO: 620-15

PAGE: 6 of 10

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		<i>blackish altered ultrabasic rock.</i>								
		B439: <i>Control; minor Py; rock is brecciated, somewhat schistose (~30-40°C/A)</i>	B439	437.0	442.0	5.0	Tr.			
442.0	450.0	<u>FELDSPAR PORPHYRY</u> <i>~50% medium-grained pink feldspar phenocrysts, gray groundmass; somewhat wuggy (mostly in calcite-bearing stringers). A little magnetic. A little foliated (~45°C/A) near the upper end. Little Py.</i>								
		B440: <i>Minor Py; ~1% wuggy carbonate (with calcite) stringers.</i>	B440	442.0	445.0	3.0	Tr.			
		B441: <i>idem B440.</i>	B441	445.0	448.0	3.0	Tr.			
		B442: <i>similar B440 but less wuggy.</i>	B442	448.0	450.0	2.0	Tr.			
450.0	490.5	<u>ALTERED BASIC TO ULTRABASIC ROCKS</u> <i>(Similar 222-382). Last 6" dark green. More shearing & blocky core in lower half (~30°C/A at 487). Driller reported seams at 450, 458, 464 & 467. Lost core: 450-451, 457-458, 463.5-466, 466.5-468, 473-474, 475-476, 479.5-480, 481-482, 485-486. B443: < 1/4% Py (grains in lowest third).</i>								
			B443	450.0	455.0	5.0	Tr.			

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HOLE NO: 620-15

PAGE: 7 of 10

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU. oz./ton			
490.5	501	Control. ~ 3% carbonates (with calcite) stringers, ~ 4' of core recovered. <u>FELDSPAR PORPHYRY</u> (Similar 442-450) ± 50% pinkish whitish medium-grained feldspar phenocrysts, medium to dark grey groundmass; somewhat rugged at several places; holding some chloritized inclusions; weakly magnetic; near upper contact (35°C/A), lower contact ground. Blocky core. ≤ 1/4% Py (disseminated, mostly fine to very fine-grained). Lost core: 494.5-495, half a foot from 498 to 500, half a foot from 500 to 503.								
		8444: < 1/8% Py (very fine-grained disseminated); schistose & fractured ultrabasic rock. Control.	8444	486.0	490.5	4.5	Tr.			
		8445: Minor Py (fine-grained disseminated); blocky feldspar porphyry; ~ 3% chloritic slips and inclusions.	8445	490.5	493.0	2.5	Tr.			
		8458: ~ 1/8% Py (fine-grained disseminated); blocky feldspar porphyry; ~ 5% chloritic slips & inclusions, 1.5' core recovered.	8458	493.0	495.0	2.0	Tr.			

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HOLE NO: 620-15

PAGE: 8 of 10

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		B446: $\leq 1/4\%$ Py (fine-grained disseminated); blocky feldspar porphyry; little chloritic material.	B446	495.0	498.0	3.0	Tr.			
		B447: $\leq 1/4\%$ Py (fine-grained & aggregates); blocky feldspar porphyry (locally porous); $\sim 1\%$ chloritic material. 2.5' of core recovered.	B447	498.0	501.0	3.0	Tr.			
501	508.5	<u>ALTERED BASIC TO ULTRABASIC ROCKS</u> (similar 222-382) Magnetic. Quite blocky (even gravelly) to 506.5. Lost core: 505-506.5.								
		B448: Minor Py. Control. Chloritized basic to ultrabasic rock; very blocky. 1.5' of core recovered.	B448	501.0	503.0	2.0	Tr.			
		B449: Minor Py. Control. Grey and greenish chloritized basic to ultrabasic rock; $\sim 2\%$ wuggy calcite stringers. Half the core is blocky. 2.0' of core recovered.	B449	503.0	506.5	3.5	Tr.			
		B450: Minor Py. Control. Blackish grey ultra-basic rock; $\sim 2\%$ carbonates (with calcite) stringers.	B450	506.5	508.5	2.0	0.01			

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HOLE NO: 620-15

PAGE: 9 of 10

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
508.5	517	<p><u>PINKISH GREY FELDSPAR PORPHYRY</u></p> <p>clear-cut to less visible medium-grained feldspar phenocrysts; more reddish below 513. Vuggy (to porous-looking below 514.5). Weakly to somewhat magnetic. Minor Py.</p> <p>Upper contact undulated (~30°/A), lower contact bumpy (~50°/A).</p> <p>Blocky core below 514.5.</p> <p>B451: Minor Py. Holding < 1% chloritic fragments; somewhat vuggy & slightly blocky. Control.</p> <p>B452: idem B451.</p> <p>B453: Minor Py; control. Holding ~1% chloritic fragments; quite vuggy (to porous), fairly blocky core.</p>								
			B451	508.5	511.0	2.5	Tr.			
			B452	511.0	514.5	3.5	Tr.			
			B453	514.5	517.0	2.5	Tr.			
517	622	<p><u>BASIC TO ULTRA BASIC ROCKS</u></p> <p>Blackish to medium grey. Magnetic all through. Altered more or less. Fractured to brecciated locally at several places (a little more so below 610). Little Py except for some concentrations ±1% in rather diffuse layers or bands.</p>								

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HOLE NO: 620-15

PAGE: 10 of 10

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU. oz./ton			
		587 ~ 600): darker, not soft to scratch, several medium-grained black crystals preserved. Lost core: 517-518.5, 533-533.5.								
		8454: Minor Py. Control. < 1% feldspar perphyry (fragment); 3.5' core recovered.	8454	517.0	522.0	5.0	Tr.			
		8455: ≥ 1/8% Py (disseminated, in foliated band at 570.5). Control.	8455	569.0	574.0	5.0	Tr.			
		8456: < 1/8% Py (in pale green stringers). Control; relatively fresh ultrabasic rock; > 2% pale green stringers.	8456	590.0	595.0	5.0	Tr.			
		8457: ~ 1/4% Py (mostly in stringer-like layer subparallel to core axis. Fractured, nearly brecciated ultrabasic rock.	8457	615.0	620.0	5.0	Tr.			
622		<u>END OF HOLE.</u> 180 feet of NW and AW casings pulled out; 42 feet of AW and 20 feet of NW casings (including casing shoes) lost in the hole. A red painted wooden post, bearing an aluminum identification tag, was set into the hole collar. Etch tube dip determinations: -43.5° (316'), -43.5° (606'). J. André Carrier 841108								

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HOLE NO: 620-16

PAGE: 1 of 6

Drilled by: BRADLEY BROS. LIMITED

Property: MICHAUD BLOCK; PN-620

Latitude: 117°00'N

Longitude: 388°00'E

Started: 84 11 07

Township: of MICHAUD; claim # 40932

Azimuth: 180°

Dip: -45°(collar), *

Ended: 84 11 09

Logged by: J. ANDRÉ CARRIER

Élévation: ?

Length: 461 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
0	202	NW casing								
0	214	AW casing								
216	461	A Q wireline core (fair to locally poor core recovery; fair to locally very poor R.Q.P.) laid into 11 boxes.								
0	214	<u>OVER BURDEN</u> 0-200 : sand 200-214 : sand and gravel.								
214	317	<u>ANDESITES - DACITES</u> Light to dark grey, fine-grained, hard to scratch, fairly magnetic, somewhat chloritized; shaly patches here & there; locally vuggy. Hairline to c.m. whitish stringers network; also several irregular shapes patches, amounting to 1-3% of the rock, with calcite at several places (mostly 216 ~ 226 and ~ 236 ~ 246). Pink calcite stringers at 304 & 309. Very siliceous from ~ 227.5 to ~ 238.5.								

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HOLE NO: 620-16

PAGE: 2 of 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU. oz./ton			
		(230.5-235.5): more highly brecciated portion; quite pale grey from 232 to 234 and holding dark grey translucent very hard fragments (chert-like). Possible bedding: 50°A (235.5), 55° (297). Foliation of breccia: ~55°A (232 & 234).								
		B500: < 1/8% Py (at 226); ~2% mm. stringers & ~2% patches of whitish fillings; rock mostly medium greys.	B500	222.0	227.0	5.0	Tr.			
		B501: Minor Py; ~2% whitish stringers & fillings; siliceous rock (hard to scratch) mostly dark & medium greys.	B501	227.0	230.0	3.0	Tr.			
		B502: > 1/4% Py (at 231); a little more brecciated than B501.	B502	230.0	232.0	2.0	Tr.			
		B503: Minor Py; pale grey with some dark fragments. Well brecciated; some translucent hairline to mm. quartz stringers cutting across pale grey network & matrix.	B503	232.0	234.0	2.0	Tr.			
		B504: ~1/4% Py; quite brecciated; medium to dark greys.	B504	234.0	236.0	2.0	Tr.			
		B505: ~1/8% Py (patches of disseminated); fractured, relatively dark grey; ~1% pale stringers.	B505	236.0	238.5	2.5	Tr.			
		B506: < 1/8% Py (disseminated); ~4% mm. calcite stringers; relatively dark grey, fine	B506	238.5	243.5	5.0	Tr.			

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HOLE NO: 620-16

PAGE: 3 of 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au. oz./ton			
		<i>to mm.-grained rock.</i>								
		<i>8507: ~ 1/2% Py (disseminated); partly discolored (pillowed?) relatively fresh-looking andesite. Lower half a little ruggy; calcite present at most places.</i>	<i>8507</i>	<i>253.0</i>	<i>258.0</i>	<i>5.0</i>	<i>Tr.</i>			
		<i>8508: < 1/2% Py (disseminated); upper third similar 8507; lower two thirds light-medium grey, hard to scratch, local thin calcite stringers network, some small rug.</i>	<i>8508</i>	<i>258.0</i>	<i>263.0</i>	<i>5.0</i>	<i>Tr.</i>			
		<i>8509: < 1/8% Py (at 294); medium to dark green andesite, ~ 1/2% skarn patches & dots, ~ 2% calcite stringers & patches, ~ 2% light green epidotized patches.</i>	<i>8509</i>	<i>293.0</i>	<i>298.0</i>	<i>5.0</i>	<i>Tr.</i>			
<i>317</i>	<i>366</i>	<u>ALTERED ULTRAMAFIC ROCK</u> <i>Rather dark grey, fine-grained, relatively homogeneous, magnetic, chloritized & serpentinized; sometimes talcose. 1-4% carbonate (with calcite) stringers. Ground & lost core: 317-317.5, 323-324.</i>								
		<i>8510: Minor Py (cubes in fissures); medium to dark grey, very soft, ultrabasic rock; fine-grained, chloritized, serpentinized;</i>	<i>8510</i>	<i>343.0</i>	<i>348.0</i>	<i>5.0</i>	<i>NIL</i>			

Falconbridge Ltd.

HOLE NO: 620-16

PAGE: 4 of 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./Ton			
		sheared & schistose ($\approx 40^\circ/A$) 344-345.5; ~3% calcite-bearing carbonate stringers and matrix (to brecciated portions).								
		8511: traces of Py (fine-grained disseminated); fractured, somewhat sheared; inch-size gougy shear zones at 356 & 357; ~4% carbonate-bearing stringers & streaks.	8511	355.5	361.0	5.5	Tr.			
		8512: idem 8511, except no gougy shear zone; schistosity $\approx 30-40^\circ/A$.	8512	361.0	366.0	5.0	Tr.			
366	381.5	<u>PINKISH GREY FELSITIC FELDSPAR PORPHYRY</u> Blocky, somewhat porous, non-magnetic porphyry, enclosing a magnetic ultramafic inclusion or portion (approximately 4 feet intersected overall). ~ 1/2% Py over fair lengths. Lost core: 1 foot from 368 to 372, 1 foot from 378 to 381.								
		8513: ~ 1/2% Py (fine-grained, disseminated); medium dark greyish feldspar porphyry; possible upper contact $\approx 60^\circ/A$; blocky core, a little ground core; no ultramafic inclusion matter.	8513	366.0	368.0	2.0	Tr.			
		8514: < 1/2% Py (fine-grained, disseminated); 2' of porphyry idem 8513, 1' blackish	8514	368.0	372.0	4.0	Tr.			

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HOLE NO: 620-16

PAGE: 5 of 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz/ton			
		soft ultrabasic (undulating contact subparallel to core axis; inclusion?). 3' recovered.								
		B515: ~1/8% Py (disseminated cubes); contacts with feldspar porphyry (~70°C/A upper, 15-20°C/A lower). 3" of feldspar porphyry at upper end, the rest being soft blackish ultrabasic (sheared in places, fractured at most other places).	B515	372.0	376.0	4.0	NIL			
		B516: ~1/2% Py (disseminated, elongated aggregates, cubes); somewhat blocky feldspar porphyry, tinge of pinkish; wuggy at lower end.	B516	376.0	378.0	2.0	Tr.			
		B517: ~1/8% Py (disseminated, elongated shape); pinkish grey altered feldspar porphyry, fractured, quite blocky (especially at upper end); lower contact quite neat (35°C/A). ~2.5' of core recovered.	B517	378.0	381.5	3.5	Tr.			
381.5	461	<u>ALTERED MAFIC TO ULTRAMAFIC ROCKS</u> Blackish grey, magnetic, soft, serpentinized & chloritized, talcose in places. Slight greenish tinge near 440. Locally brecciated (examples: near 417 & 423). More fractured & sheared above ~440. 1-8% carbonate (with calcite) stringers and fillings. Very locally ~1% Py.								

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HOLE NO: 620-16

PAGE: 6 of 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		Lost core: 383-386, 4' from 403.5 to 411, 425.5-427, 432-433.								
		B518: Minor Py; ~4% calcite stringers, some shears. 2' of core recovered.	B518	381.5	386.0	4.5	Tr.			
		B519: Minor Py; ~5% calcite stringers, some schistosity (~30-50%A), fractured & some dragfolding.	B519	386.0	391.0	5.0	Tr.			
		B520: ~1/8% Py; ~2% calcite stringers, fractured & locally brecciated or schistose. ~3.5' of core recovered.	B520	422.0	427.0	5.0	Tr.			
		B521: >1/8% Py (1-8mm cubes); ~4% calcite stringers, fractured & locally brecciated or schistose. 4.5' of core recovered.	B521	427.0	432.0	5.0	Tr.			
461		<u>END OF HOLE</u>								
		Casings pulled out (NW: all recovered; AW: 72' recovered & 142' lost in the hole). A red painted wooden post, bearing an aluminum identification tag, was set into the hole collar.								
		* Etch tube dip determinations: -44°(316'), -47.5°(461').								
		J. André Carrier 84 11 13								

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HOLE NO: 620-17 PAGE: 1 of 9

Drilled by: BRADLEY BROS. LIMITED

Property: MICHAUD BLOCK; PN-620

Latitude: 108+00N

Longitude: 384+00E

Started: 84 11 10

Township: of MICHAUD; claim # 40932

Azimuth: 0°

Dip: -45°(collar), *

Ended: 84 11 17

Logged by: J. ANDRÉ CARRIER

Élévation: ?

Length: 996 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
0	206	NW casing								
0	228	AW casing								
230	996	AQ wireline core (fair to upper half very poor core recovery; fair to very poor R.Q.D.) laid into 33 boxes.								
0	224	<u>OVERBURDEN</u> 0-206: sand 206-224: gravel								
224	871	<u>BASIC TO ULTRA BASIC ROCKS</u> Dark grey to blackish (some greenish, harder to scratch & locally rugged), fine-grained, easy to scratch; very blocky core, fairly magnetic. Below ~520, more greenish tinge and less magnetic. Several slickensided slip planes here & there; more abundant at depth & often bearing Py grains. Fracturation increasing with depth (and partly red by whitish carbonates stringers). Below ~560, mm. to cm. whitish carbonates (with calcite) stringers & fillings are frequent; they reach locally up to 3%								

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HOLE NO: 620-17. PAGE: 2 of 9

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
		<p>around 700' and even 10% around 835' & 845'.</p> <p>From ~750 to ~850, the rock is quite fractured (& sutured by carbonate stringers & fillings), locally sheared (~35°/A at 773, 25-35° at 812, ~20° at 835 & 40°/A at 860), and very soft (easy to scratch).</p> <p>(243.5-245, most of 253-262, 269-270, 447-448, 531.5-536.5, 569-571.5): grey feldspar porphyry; wuggy, medium-grained phenocr, magnetic & calcite-bearing.</p> <p>(413.5-445): blackish to dark grey, fine to medium-grained mafic basalt; magnetic, averaging 1/2% disseminated Py, wuggy & porous, ~2% mm. calcite streaks. From 416 to 421: gabbroic looking & ~1% Py.</p> <p>(770-772): pinkish grey feldspar porphyry; pinkish medium-grained subhedral phenocrysts; upper contact (~15°/A) making a high angle with lower contact (~30°/A). Somewhat magnetic.</p> <p><u>Lost core:</u> 240-241, 249-249.5, 5 feet lost between 253 & 262, 269-270, 277-278, 281-282, 288-290, 293.5-296, 297-302, 304.5-305, 307.5-313, 314-316, 318.5-319,</p>								

Falconbridge Ltd.

HOLE NO: 620-17

PAGE: 3 of 9

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		<p>321-324, 325-326, 327.5-329, 332-334, 336.5-337, 338.5-339, 348-349, 350.5- 351, 364-365, 367.5-368, 370.5-371, 383.5-384, 390.5-392, 394.5-395, 402.5- 403, 411.5-413, 414.5-415, 416-418, 424.5-425, 433-434, 439-440, 444.5- 445, 447-448, 454.5-455, 456-458, 459- 462, 463-464, 467.5-468, 471-472, 473.5- 474, 476-479, 480.5-481, 485-486, 489.5- 491, 492.5-493, 495-496, 497-498, 499.5-501, 501.5-503, 505-506, 510-511, 513.5-514, 518.5-519, 522-523.5, 527.5- 528, 535.5-536, 537-538, 542.5-543, 546-548, 552-553, 562.5-563, 565.5- 566, 567.5-568, 570-571.5, 573.5- 578, 579-582, 585-586, 587.5-588, 613-613.5, 615.5-616, 622-623, 625-626, 630-631, 639-640, 647.5-649, 659.5- 661, 662-663, 665.5-666, 671.5-672, 691-692.</p> <p>That is <u>less than 80% recovery</u> in the first 450 feet of core.</p> <p>8680: Control. Trace of Py; 75% gray medium- grained feldspar porphyry (ruggy & calcitic), 25% mafic rocks (at contacts); 1.5' of core recovered.</p>	8680	243.0	245.0	2.0	Tr.			

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HOLE NO: 620-17

PAGE: 4 of 9

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au. oz./ton			
		B681: Control. Minor to traces of Py. Blocky, gray medium-grained feldspar porphyry, suggy, some calcite; ~ 15% mafic inclusion. ~ 4' of core recovered.	B681	253.0	262.0	9.0	Tr.			
		B682: ~1/8% Py (disseminated). Control. Blackish grey; some black chloritic fragments, 1/2% calcite streaks. 2.0' recovered.	B682	413.5	416.0	2.5	Tr.			
		B683: ~1% Py (fine & medium-grained, disseminated); gabbroic (more whitish minerals & medium-grained), dark greys, 3' of core recovered.	B683	416.0	421.0	5.0	Tr.			
		B684: ~1/4% Py (fine & medium-grained, disseminated); similar B682, chloritized mafic minerals. 3.5' of core recovered.	B684	421.0	425.0	4.0	Tr.			
		B685: ≥ 1/4% Py (fine & medium-grained, disseminated); similar B682; several black chloritic fragments.	B685	425.0	430.0	5.0	Tr.			
		B686: ≤ 1/4% Py (fine & medium-grained, disseminated); similar B684; 4' recovered.	B686	430.0	435.0	5.0	Tr.			
		B687: ≤ 1/4% Py (fine & medium-grained, disseminated); similar B684; > 1/2% calcite streaks; 4' of core recovered.	B687	435.0	440.0	5.0	Tr.			
		B688: < 1/4% Py (fine & medium-grained, disseminated); idem B685; 4.5' of core recovered.	B688	440.0	445.0	5.0	Tr.			

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HOLE NO: 620-17

PAGE: 5 of 9

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Avg. oz./ton			
		8689: Control. Minor to traces of Py. Grey (locally somewhat greenish), fine to medium-grained feldspar porphyry (pale phenocrysts in dark matrix), holding < 10% blackish ultramafic inclusion; a little wuggy and local suggestion of trachytic alignment of phenocrysts. Magnetic.	8689	531.5	536.5	5.0	Tr.			
		8690: < 1/8% Py (mostly in stringers); 60% medium grey, 40% dark grey basic rock relatively hard to scratch; ~1% hairline to mm. carbonates (with calcite) stringers. Control.	8690	680.0	685.0	5.0	Tr.			
		8691: Minor Py (coating some joints); blackish basic rock, hard to scratch; magnetic; 1% carbonates (with calcite) whitish stringers (including one cm. stringer). Control.	8691	685.0	690.0	5.0	Tr.			
		8692: > 1/2% Py (fine to medium-grained in stringers); dark grey chloritized & serpentinized ultrabasic, a little sheared, fractured & sutured with > 3% whitish carbonates (with calcite) stringers. Control.	8692	710.0	712.0	2.0	Tr.			
		8693: Minor Py (very fine-grained); pinkish grey porphyry, relatively fresh-looking.	8693	770.0	772.0	2.0	Tr.			
		8694: ~ 1/4% Py (fine & medium-grained in stringers); dark grey ultrabasic. ~10% calcitic carbonates stringers stockwork. Control.	8694	831.0	836.0	5.0	Tr.			

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HOLE NO: 620-17

PAGE: 6 of 9

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	LENGTH	AU oz./ton			
871	935.0	<u>GREY DACITE</u> Magnetic, relatively light to medium grey, often massive, relatively hard to scratch; also locally quite tuffaceous; frequently vuggy. Averaging 1-2% calcite streaks & stringers. Minor to a little Py in fissures & minute cracks. At 888, purplish red hematized undulated slip surface, subparallel to core axis, showing excellent slickensides 40°C/A. Further details in sample descriptions below.								
		8604: > 1/8% Py (disseminated & minute stringers); grey dacite, upper third somewhat foliated, brown hematized fault mirror (30°C/A) with slickensides (40°C/A) at 914; somewhat brecciated; ~3% carbonates (with calcite) fillings & stringers.	8604	911.0	916.0	5.0	Tr.			
		8605: ~1/8% Py (disseminated & minute stringers); grey dacite, tuffaceous & deformed blackish laminae (30-40°C/A); ~2% carbonates (with calcite).	8605	916.0	920.0	4.0	Tr.			
		8606: ~1/8% Py (disseminated & minute stringers); grey dacite, locally tuffaceous (40°C/A), lower third brecciated; ~2% carbonates (with calcite).	8606	920.0	925.0	5.0	0.01			

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HOLE NO: 620-17

PAGE: 7 of 9

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		B607: ~1/8% Py (disseminated & minute stringers); dark olivish grey tuffs (~40% A), finely laminated, a little calcite, with more massive (dacitic?) portion.	B607	925.0	927.1	2.1	0.01			
		B608: >1/8% Py (disseminated & minute stringers); grey dacite, local amygdules, some vugs, minor tuff (~55% A); ~5' recovered.	B608	927.1	932.6	5.5	Tr.			
		B609: >1/8% Py (disseminated & some patches); laminated (40% A) basic tuff (or sheared lamprophyre), chloritized, a little calcite.	B609	932.6	935.0	2.4	Tr.			
935.0	943.0	<u>REDDISH PINK PORPHYRITIC FELSITE</u> Brownish tinge to pink & reddish color; hard to scratch, cm. fissured; ≥ 1% chloritic streaks and coatings in certain fractures; translucent (showing Py cubes and pale phenocrysts to less than 1 mm depth). ~ 1% Py (fine-grained cubes disseminated all through).								
		B610: ~1% Py (fine-grained cubes disseminated and some trains of grains); upper contact (≈ 30% A) not clear; greyish reddish pink porphyritic felsite, fractured, > 1% grey chloritized grains, streaks & patches; non magnetic.	B610	935.0	936.1	1.1	Tr.			

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HOLE NO: 620-17

PAGE: 8 of 9

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz/ton			
		B611: ~1% Py (fine-grained cubes, disseminated & some trains, some aggregates, one mm. stringers); reddish, >1% bluish grey chloritic patches, cm. fractured.	B611	936.1	938.3	2.2	Tr.			
		B612: <1% Py (fine-grained cubes, disseminated); reddish & greyish brown; slickensides 45° in 25°/A slip plane.	B612	938.3	939.3	1.0	Tr.			
		B613: ~1% Py (fine-grained cubes, disseminated); reddish; ~1% grey chloritic streaks, porous slightly. 2.3' of core recovered.	B613	939.3	942.0	2.7	Tr.			
		B614: ~1% Py (fine-grained cubes, disseminated, and some trains); reddish & greyish brown; cm. fractured, >1% chloritic streaks. Lower contact (~60°/A) relatively neat.	B614	942.0	943.0	1.0	Tr.			
943.0	996	<u>BASIC TO ULTRA BASIC ROCKS</u> (similar to 224-871).								
		B615: Minor Py; ultrabasic rock, dark grey with 25% pale grey cm. calcitic streaks and laminae (~55°/A). Magnetic.	B615	943.0	945.0	2.0	NIL			
		B616: ~1/8% Py (some fine-grained disseminated, most of it in two low-angle calcitic stringers); some laminae (~30°/A), slickensides 55°/A in 30°/A slip plane;	B616	945.0	950.0	5.0	Tr.			

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HOLE NO: 620-17

PAGE: 9 of 9

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		relatively homogeneous blackish chloritized (& serpentized?), fine-grained, ultrabasic rock.								
		B617: < 1/8% Py (fine & medium-grained, disseminated); blackish grey fractured ultrabasic rock, ~6% carbonates (with calcite) stringers and one 4 cm layer ($\approx 40\%$ A); 4.5' of core recovered.	B617	960.0	965.0	5.0	Tr.			
		B618: ~1/4% Py (fine & medium-grained in train following layers or stringers); blackish ultrabasic, fractured, magnetic, >1% whitish carbonates (with calcite) stringers & fillings. ~3.5' of core recovered.	B618	965.0	970.0	5.0	Tr.			
996		<u>END OF HOLE</u> Casing pulled out; 106 feet of NW and 68 feet of AW casing lost in the hole with their shoe bits. A red painted wooden post, bearing an aluminum identification tag, was set into the hole collar. * Etch tube dip determinations: - 43.5° (300'), -43° (600'), -43° (900'). J. André Carrier 84 11 24								

AU GEOCHEMISTRY

Diameter Drill Hole no: 620-18

Township: MICHAUD

Log Summary		Geochemistry Sample				
Location (m) From To		Sample no.	Location (ft.) From To		Au (ppb)	Remarks
		620-18-01	285	289	27	
		02	289	320	8	
		03	320	347.5	4	
		04	353	367	2	fairly magnetic
		05	377	386	1	porphyry
		06	347.5	391	4	less former 2
		07	391	453	2	
		08	{ 453	455.5 }	1	blackish
			{ 474	479 }		
			{ 494	495.5 }		
		09	455.5	494	1	less former 1
		620-18-10	533	546	<1	
		11	495.5	577	35	less former 1
		12	577	620	6	
		13	620	684	1	
		14	{ 684	686 }	10	blackish
			{ 708	712.5 }		
		15	712.5	721.5	17	mixture
		16	686	708	2	
		17	721.5	762	3	
		18	762	795	1	grey porphyry
		19	{ 765	773 }	1	lamprophyric
			{ 779	780.5 }		
			{ 810.5	813.5 }		
		620-18-20	762	813.5	1	less former 2
		21	883	888	<1	coarse flaky mafics
		22	813.5	906	<1	only lamprophyric
		23	813.5	906	1	less former 2
		24	906	930	<1	
		25	930	980	<1	
		26	980	1035	<1	
		27	1035	1059	<1	
		28	1059	1109	3	
		620-18-29	1109	1128.5	12	mafic inclusions only

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HOLE NO: 620-18 PAGE: 1 of 17

Drilled by: BRADLEY BROS. LIMITED
 Started: 84 11 10
 Ended: 84 11 18

Property: MICHAUD BLOCK; PN-620
 Township: of MICHAUD; claims { #40928
 #45156
 Logged by: J. ANDRÉ CARRIER

Latitude: 112+00N
 Azimuth: 180°
 Élévation: ?

Longitude: 364+00E
 Dip: -45°(col/hr), *
 Length: 1206 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
0	252	NW casing.								
0	284	AW casing.								
285	1206	AQ wireline core (very good to rarely poor core recovery; good to poor R.Q.D.) laid into 40 boxes.								
0	284	<u>OVER BURDEN</u> 0-258 : sand 258-280 : gravel 280-284 : boulders								
284	347.5	<u>FELDSPAR PORPHYRY</u> Pinkish medium-grained phenocrysts, grey matrix, traces of Py; below 320, getting more greyish, finer-grained (less feldspar phenocrysts) and holding minor to some disseminated Py. Weakly to non-magnetic, occasional quartz stringers. (285-289): pinkish brown felsitic pinkish matrix porphyry (possibly a boulder). B619: < 1/8% Py (fine-grained disseminations).	8619	285.0	289.0	4.0	Tr.			

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HOLE NO: 620-18

PAGE: 2 of 17

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		<i>Control. Felsitic matrix. Possibly a local boulder?</i>								
		<i>B620: Control; minor Py (very fine-grained in the matrix). Occasional quartz stringer.</i>	<i>B620</i>	<i>289.0</i>	<i>294.0</i>	<i>5.0</i>	<i>Tr.</i>			
		<i>B621: ~ 1/8% Py (fine-grained disseminations), siliceous-looking fine-grained grey matrix; ~ 1% quartz stringers.</i>	<i>B621</i>	<i>337.5</i>	<i>342.5</i>	<i>5.0</i>	<i>Tr.</i>			
		<i>B622: < 1/4% Py (fine-grained disseminations). I dem # B621, ~ 2% quartz stringers.</i>	<i>B622</i>	<i>342.5</i>	<i>347.5</i>	<i>5.0</i>	<i>Tr.</i>			
<i>347.5</i>	<i>391.0</i>	<i>BLACKISH INCLUSIONS & CONTAMINATED PORPHYRY</i>								
		<i>Complex arrangement of fine-grained to nearly aphanitic layered to mm. laminated blackish (tuffaceous?) material, cut by dark feldspar porphyry portions, mixed with dark reddish felsitic layers (sometimes broken up into clasts).</i>								
		<i>Lower contact irregular but roughly 30° C/A, while laminations near upper contact make 45° with core axis.</i>								
		<i>(353-367): fairly magnetic locally; calcite-bearing & quite vuggy, several open fractures, possibly some sharn development.</i>								
		<i>Foliation (schistosity, contacts & maybe</i>								

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HOLE NO: 620-18

PAGE: 3 of 17

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		some fluidal textures): 20-45°C/A at most places. Fine-grained Py irregularly disseminated (sometimes following laminar).								
		(377-386): porphyry similar to 284-347.5; several finer-grained portions, ~1% quartz-sutured subparallel hairline fractures ~45°C/A. Upper contact irregular (~40°C/A), lower contact neat (30°C/A).								
		0623: < 1/4% Py (mostly finely laminated). Blackish & jasper to dark reddish brown layers & laminations; ~2% quartz stringers.	0623	347.5	352.0	4.5	Tr.			
		0624: ~1/8% Py (very fine-grained; disseminated & laminated). mm. laminated dark reddish grey to blackish; tuffaceous?; somewhat vuggy. 3% quartz stringers & 3" greyish quartz veinlet (impure). 1.7' recovered.	0624	352.0	354.5	2.5	Tr.			
		0625: < 1/8% Py (very fine-grained disseminations). Blackish, foliated, ~15% mm. whitish grains; open fractures & vuggy; might hold some sparn. Magnetic. 2.5' of core recovered.	0625	354.5	357.5	3.0	Tr.			
		0626: ~1/8% Py (lamination at upper end). 75% bluish black, fine-grained, laminated (& streaks), fractured & carbonates stringers sutured; 5% dull red siliceous	0626	357.5	363.0	5.5	Tr.			

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HOLE NO: 620-18

PAGE: 4 of 17

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		(with calcite) laminae; ~20% blackish idem #8625; magnetic; in places blocky & wuggy core.								
		8627: < 1/8% Py (fine-grained disseminations). Blackish (similar to #8526), wuggy, a little calcite; chloritized, non-magnetic & more finely laminated in last foot. At 364, slickensides 35° C/A on 15° C/A slip plane. ~ 4.5' of core recovered.	8627	363.0	368.0	5.0	Tr.			
		8628: Minor Py. Non-magnetic, contaminated porphyry, dark grey to blackish; one black lamination next to reddish brown siliceous felsitic band. ~1% quartz stringers.	8628	368.0	371.5	3.5	Tr.			
		8629: Traces of Py; control. Relatively homogeneous dark bluish grey chloritized (bedded 45° at lower end), often somewhat fractured & healed by whitish mm. stringers; ~10% reddish siliceous clasts from band (similar to jasper); non-magnetic. 5' of core recovered.	8629	371.5	377.0	5.5	Tr.			
		8630: Minor Py. Feldspar porphyry holding more than 50% finer-grained portions; locally some reddish developing; ~45° fractures sutured by <1% whitish hair-line to mm. stringers. 3.5' recovered.	8630	377.0	381.0	4.0	Tr.			

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HOLE NO: 620-18

PAGE: 5 of 17

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		8631: << 1/8% Py (disseminated). Similar to # 8630, but ~2% whitish stringers	8631	381.0	386.0	5.0	Tn			
		8632: Minor Py. Non-magnetic; dark bluish grey to blackish, chloritized, finely laminated (sedimentary or tuffaceous); fractured & sutured by ~1% whitish hairline to m.m. stringers.	8632	386.0	391.0	5.0	Tr.			
391.0	762	<p><u>PINKISH GREY SYENITE PORPHYRY</u></p> <p>(Locally similar to upper part of 284-347.5)</p> <p>Subhedral medium-grained pinkish feldspar phenocrysts (varying from >75% to <25% in places) in medium to dark grey fine to very fine-grained matrix. Somewhat magnetic in last tens of feet.</p> <p>Frequent local alteration (grey fine-grained patches, diffuse quartz stringers, chloritized sutured slips, reddish portions).</p> <p>Some siliceous bands & fragments, lithified shears, etc. Attitude of laminated portions: 30°/A(413), 10°(449), 60°(480), 55°(500).</p> <p>Really a porphyritic syenite in places (especially 495-577, 620-684).</p> <p>More quartz stringers at depth (2" veinlets at 736 & 743).</p>								

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HOLE NO: 620-18

PAGE: 6 of 17

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au. oz./ton			
		<p>Minor Py, disseminated here & there (more at depth).</p> <p>(453-455.5, 474-479, 494-495.5, 533-546, 684-686, 708-712.5): blackish intersections which can be described as follows:</p> <ul style="list-style-type: none"> - felsite-like dyke, magnetic at 454; - lamprophyre-like 474-479 [upper contact irregular (~30°C/A), lower contact neater (~20°C/A)]; - holding 6" of silicified greyish red feldspar porphyry at 494.5; - lamprophyre-like 533-546 [upper contact 70°C/A, lower contact subparallel to core axis & holding a feldspar porphyry inclusion 543.5-545]; - lamprophyre-like 708-712.5 [upper contact unclear, lower contact ~40°C/A] resting on 3' mixture of 1.5' porphyry fading down the hole to the following 7.5' of inclusions: 4' of blackish green chloritized basic rock holding some reddish felsitic matter near 716, 3.5' of felsic intrusive matter (2.5' combined reddish & greyish, partly granulated, feldspar porphyry and a last foot of brownish red very fine-grained felsite) 								

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HOLE NO: 620-1B

PAGE: 7 of 17

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		holding pebble size chloritic fragments near 718 & 721.5.								
		B633: Minor Py. Feldspar porphyry with fine-grained portions; suggestion of foliation $\approx 45^\circ$. <1% diffuse quartz stringers.	B633	391.0	396.0	5.0	0.01			
		B634: $\sim 1/2\%$ Py (medium to fine-grained, in chloritic mm. fractures). Porphyry similar to #8633, but more phenocrysts. $\sim 1\%$ diffuse quartz stringers.	B634	396.0	401.0	5.0	Tr.			
		B635: Minor Py. Subhedral medium-grained pinkish feldspar phenoc in grey matrix. Lower contact quite neat (15°C/A).	B635	401.0	406.0	5.0	Tr.			
		B636: $< 1/8\%$ Py (medium-grained cubes). Partly granulated porphyry, foliation $\sim 30^\circ\text{C/A}$, $\sim 10-20\%$ reddish developing, $>10\%$ medium-grained feldspar phenoc left.	B636	406.0	410.0	4.0	Tr.			
		B637: Minor Py. Porphyry similar to #8636, somewhat darker, last foot laminated ($30-40^\circ\text{C/A}$), little reddish.	B637	410.0	413.0	3.0	Tr.			
		B638: Minor Py; control. Porphyry granulated to 417, fresh porphyry on last foot; first 2' are siliceous-looking & reddish developing. $\sim 1\%$ diffuse quartz stringers.	B638	413.0	418.0	5.0	Tr.			
		B639: $\sim 1/4\%$ Py (in stringers); control. Several zoned feldspar phenocrysts; fine-grained	B639	430.0	435.0	5.0	Tr.			

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HOLE NO: 620-18

PAGE: 8 of 17

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz/ton			
		<i>grey silicification affecting half of last 2/3 and accompanied by Py.</i>								
		<i>8640: <1/8% Py (lower end); control. Blackish granulated in first foot; quartz stringers at 451 and slightly near lower end.</i>	<i>8640</i>	<i>448.0</i>	<i>453.0</i>	<i>5.0</i>	<i>Tr.</i>			
		<i>8641: Minor to traces of Py; control. Blackish fine-grained inclusion; magnetic; very hard, some hairline sutured fractures (maybe former dyke material); ~20% feldspar porphyry cutting through it. 2.5' recovered.</i>	<i>8641</i>	<i>453.0</i>	<i>456.0</i>	<i>3.0</i>	<i>Tr.</i>			
		<i>8642: Minor Py. Partly greyish silicified & granulated medium-grained feldspar porphyry; ~20% reddish very fine-grained to aphanitic felsitic portions.</i>	<i>8642</i>	<i>469.0</i>	<i>474.0</i>	<i>5.0</i>	<i>Tr.</i>			
		<i>8643: Minor to traces of Py; control. Blackish lamprophyre dyke; altered with bluish discoloration along some sutured minute fissures; some fragments of reddish felsite at upper end. 4.5' of core recovered.</i>	<i>8643</i>	<i>474.0</i>	<i>479.0</i>	<i>5.0</i>	<i>Tr.</i>			
		<i>8644: ~1/8% Py; control. 10% reddish felsite at upper end; lithified shear at 480.5 (~70°C/A) & redder >75% reddish feldspar porphyry (greyish silicified in place). ~1% quartz stringers.</i>	<i>8644</i>	<i>479.0</i>	<i>484.0</i>	<i>5.0</i>	<i>Tr.</i>			

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HOLE NO: 620-18

PAGE: 9 of 17

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		B645: < 1/8% Py; control. Similar to # 8644 porphyry, a little more silicified. ~ 3% quartz stringers (white, red, black).	8645	484.0	489.0	5.0	Tr.			
		B646: Minor Py. Similar to # 8644 porphyry, getting to porphyritic syenite. ~ 1% reddish & black quartz stringers. ~ 4.5' of core recovered.	8646	489.0	494.0	5.0	Tr.			
		B647: Minor Py; control. Lamprophyre (foliated ~ 70°C/A); 1/3 reddish feldspar porphyry (silicified & holding ~ 1/2" of quartz stringers).	8647	494.0	495.5	1.5	Tr.			
		B648: Minor Py; control. Pinkish grey porphyritic syenite, silicified grey patches. ~ 2% quartz stringers.	8648	495.5	500.5	5.0	Tr.			
		B649: < 1/8% Py (near shear). Syenite idem # 8648; silicified somewhat wuggy shear at 501.5 (~ 50°C/A).	8649	500.5	505.5	5.0	Tr.			
		B650: > 1/8% Py (near quartz stringer); control. Greyish altered feldspar porphyry. ~ 2% quartz stringers. Several blackish coated sutured fractures.	8650	528.0	533.0	5.0	Tr.			
		B651: Minor Py (plus one 3 mm cube). Blackish (a little bluish black alteration following some minute cracks) lamprophyre, local dark green. Minor calcite (hairline stringers).	8651	533.0	538.0	5.0	Tr.			

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HOLE NO: 620-18

PAGE: 10 of 17

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		8652: < 1/8% Py; control. Somewhat greyish silicified pinkish grey porphyritic syenite.	8652	572.0	577.0	5.0	Tr.			
		8653: Minor Py; control. Very hard, fine-grained, laminated, purplish grey and black; some mm. whitish fillings; 30% porphyritic syenite (inclusion & contact). ~ 3% pink calcite deformed stringer. Probable dykelet (upper contact 55°C/A, lower contact 40°C/A).	8653	577.0	579.0	2.0	Tr.			
		8654: ~ 1/8% Py (disseminated); control. 2/3 blackish mafic (lamprophyre-like in places); 1/3 reddish to purplish felsitic. ~ 5% pink calcite stringers & fillings.	8654	613.0	617.0	4.0	Tr.			
		8655: Minor Py; control. Pinkish grey porphyritic syenite; thin bluish chlorite coating on several joints.	8655	679.0	684.0	5.0	Tr.			
		8656: ~ 1/8% Py (upper end). Black (mm. white streaks) basic inclusion, minor calcite, vuggy, foliated ~ 65°C/A, non-magnetic, a little bluish chlorite along fissures.	8656	684.0	686.0	2.0	Tr.			
		8657: < 1/8% Py (mm. grains); control. Pinkish & blackish grey porphyritic syenite; silicified in places; ~ 1% dark grey quartz stringers, also 2" quartz veinlet near upper end.	8657	686.0	691.5	5.5	Tr.			

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HOLE NO: 620-18

PAGE: 11 of 17

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
		8658: ~ 1/8% Py (disseminated in places), similar to #8657, but a little more pinkish.	8658	691.5	697.0	5.5	Tr.			
		8659: > 1/4% Py (disseminations & trains of grains in fissures). Pinkish porphyritic syenite (more than half altered grey); ~ 2% quartz stringers, ~ 10% quartz-enriched grey portions (containing most of the pyrite).	8659	697.0	702.0	5.0	Tr.			
		8660: > 1/4% Py (most of it at lower end), similar to #8659; ~ 2% quartz stringers, > 10% quartz-enriched grey portions.	8660	702.0	708.0	6.0	0.01			
		8661: Minor Py. Lamprophyre; ~ 1% hairline to mm. whitish stringers.	8661	708.0	712.5	4.5	Tr.			
		8662: < 1/8% Py (felsic). Upper foot grey porphyry (locally felsitic); second & last feet quartz-rich; the rest fine-grained blackish basic to ultrabasic material (with brownish fine-grained felsic material near 716).	8662	712.5	718.0	5.5	Tr.			
		8663: ~ 1/8% Py (upper end felsic). Pinkish to reddish grey felsic intrusives resting on 1' fine-grained red felsite. > 5% blackish basic fragments (both ends). Quartz stringer near 720.	8663	718.0	721.5	3.5	Tr.			

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HOLE NO: 620 -18 PAGE: 12 of 17

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au. oz./ton			
762	1059	<p><u>BASIC TO ULTRABASIC ROCKS.</u></p> <p>Blackish grey, rarely a little greenish, magnetic, chloritized (sometimes serpentized), locally talcose, some epidote at depth, assemblage of mafic to ultramafic rocks; including some medium-grained basic rocks and/or lamprophyric material (779-780.5, 810.5-813.5, 863-863.5, 866.5, 867.5, 905-906).</p> <p>Up to 5% whitish carbonates (with calcite) stringers & fillings: mostly 785-813, also near 843, 860, 908, 939, 1001, 1015 and 1035-1059 (stringers with lots of talcose greenish matter). Calcite also present at several places below 930, as lighter grey matrix of brecciated portions as well as fractures fillings.</p> <p>Usually minor Py, some disseminations locally, especially below 997.</p> <p>(765-773): lamprophyre.</p> <p>(762-763, 764-765, 775-779, 783-784, 793.5-795, 872-875, 876-877): grey feldspar porphyry; most contacts 30-60°C/A.</p> <p>Schistosity (& foliation): clear ~45° (880-883), variable & contorted (with abundant coarser flaky mafic minerals) from 883 to ~888.</p>								

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HOLE NO: 620-18

PAGE: 13 of 17

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		Fairly blocky core at several places; little lost core (one foot at 781 & 888).								
		B664: < 1/8% Py (fine-grained); control. 1.5' of medium-grained & 2.0' of fine-grained feldspar phenocryst porphyries; a little mafic inclusion & contacts. Upper contact ~ 40°C/A, lower contact 35°C/A.	B664	775.0	779.0	4.0	Tr.			
		B665: < 1/8% Py (disseminated); control. 5% wuggy block mafic, ~30% grey feldspar porphyry. ≤ 1% carbonates stringers, < 5% dark grey intermediate composition (dykelet?), 60% blackish ultramafic.	B665	793.5	798.0	4.5	Tr.			
		B666: Minor Py; some chalcopyrite (in carbonate stringer); control. Blackish to dark bluish grey ultrabasic rock; > 5% carbonates (with calcite) stringers subparallel to core axis & also 45°C/A.	B666	840.0	845.0	5.0	Tr.			
		B667: < 1/8% Py (fine-grained in gabbroic); control. 4' ultrabasic idem # B666, but no carbonates stringers; 1' dark rather fine-grained gabbro.	B667	845.0	850.0	5.0	Tr.			
		B668: ~ 1/8% Py (fine-grained disseminations in ultrabasic). 3' greenish-grey epidotized matrix, medium-grained feldspar phenocryst porphyry; 1.5' quite homogeneous fine-grained ultrabasic; 6" grey & fractured feldspar porphyry.	B668	872.0	877.0	5.0	Tr.			

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HOLE NO: 620-18

PAGE: 14 of 17

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		8669: Minor Py. Dark grey ultrabasic rock; ~5% carbonates (with calcite) talcose stringer subparallel to core axis.	8669	936.0	941.0	5.0	Tr.			
		8670: ≥ 1/8% Py (mostly in walls of greenish black & in stringer). 2' ultrabasic rock (grey, fine-grained with 2% carbonate stringers) holding 1' greenish black medium-grained; 25-40% A contacts.	8670	995.0	1000.0	5.0	Tr.			
		8671: Minor Py; control. Blackish grey, fine-grained ultrabasic rock; 1% dark green chloritic stringers, 2% whitish carbonates (with calcite) subparallel to core axis stringer.	8671	1000.0	1005.0	5.0	Tr.			
		8672: < 1/4% Py (fine-grained local disseminations); control. Blackish (locally dark grey) ultrabasic rock; > 3% whitish talcose carbonates (with calcite) stringers & fillings.	8672	1044.0	1049.0	5.0	Tr.			
		8673: > 1/8% Py (fine-grained local disseminations). Rock similar to # 8672; ~2% talcose carbonates stringers; 4" of grey porphyry holding a 5mm porous quartz stringer.	8673	1049.0	1054.0	5.0	Tr.			
		8674: Minor Py (fine-grained local disseminations). ~2% talcose carbonates stringers; Rock similar to # 8672.	8674	1054.0	1059.0	5.0	Tr.			

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HOLE NO: 620-1B

PAGE: 15 of 17

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./Ton			
1059	1120.5	<p><u>GREY FELDSPAR PORPHYRY</u></p> <p>Fine-grained & medium-grained subhedral whitish feldspar phenocrysts in medium to dark grey very fine-grained matrix. Non-magnetic. Generally minor to traces of Py.</p> <p>Numerous fine-grained granulated & altered colons portions.</p> <p>Below 1109, several mafic to ultramafic inclusions (locally a little magnetic): 1109-1110 (epidotized), 1110-1116 & 1116.5-1117.5 (schistose & contorted ultramafic), 1122.5-1124 (lamprophyre-like ultramafic).</p> <p>Lost core: 1090-1091.</p>								
		8675: Minor to traces of Py; control. Mostly medium-grained, dark to medium bluish grey, feldspar porphyry; >1% fine-grained beige grey altered mineral.	8675	1059.0	1064.0	5.0	Tr.			
		8676: < 1/8% Py (in light grey altered); control. Slight yellowish & pinkish light to medium grey siliceous-looking porphyry (with less visible phenocr) amongst 1/3 little altered grey feldspar porphyry.	8676	1075.0	1080.0	5.0	Tr.			
1120.5	1155.5	<p><u>BASIC TO ULTRA BASIC ROCKS</u></p> <p>(Similar to lowest end of 762-1059)</p>								

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HOLE NO: 620-18

PAGE: 16 of 17

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
1155.5	1177	<p><i>soft, magnetic; only local Py disseminations. Occasional fragment of grey felsic porphyry. Fractured & sutured by 2-4% whitish hairline to 4 mm carbonates (with calcite) tal-coke stringers.</i></p> <p><u>PINKISH BROWNISH GREY FELDSPAR PORPHYRY</u></p> <p><i>Fine to medium-grained subhedral feldspar phenocrysts. Upper contact ~ 40°C/A, lower contact broken-up (~ 40°C/A). Non-magnetic. Minor disseminated fine-grained Py. Quite blocky core. Lost core: 1165-1166, 1169.5-1170, 1171-1171.5, 1176.5-1177. (1158.5-1159.5): black & reddish, hard, fine-grained, probable inclusion of mafic rock.</i></p> <p>0677: ~ 1/8% Py (fine & very fine-grained disseminations); control. Occasional vug in brownish grey porphyry.</p>	0677	1172.0	1177.0	5.0	Tr.			
1177	1206	<p><u>BASIC TO ULTRA BASIC ROCKS</u></p> <p><i>(Similar to 762-1059)</i></p> <p><i>About 10% of the rock is cm. brecciated (non-calcitic medium grey matrix); later fractured & sutured by 1-3% calcitic carbonates stringers.</i></p> <p><i>Minor Py only.</i></p>								

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HOLE NO: 620-18

PAGE: 17 of 17

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz/ton			
		(1177-1180.5): slightly buff greenish, medium grey, hard, felsic to intermediate (lava?) intercession. Magnetic; minor fine-grained Py; 3% cm. carbonates (with calcite) stringers.								
		(1180.5-1181.5): grey medium-grained feldspar porphyry. ~1% fine-grained pyrite.								
		B678: <1/8% Py (fine & very fine-grained disseminations); control. Fractured & sutured fine-grained felsic (lava?); ~15% grey medium-grained feldspar porphyry; 3% calcitic carbonates stringers.	B678	1177.0	1181.5	4.5	Tr.			
		B679: Minor Py (very fine-grained); control. Black to bluish-dark grey fine-grained ultrabasic, somewhat fractured & sutured by hairline & mm. and two cm. calcitic carbonate stringers.	B679	1181.5	1186.5	5.0	Tr.			
	1206	<p><u>END OF HOLE.</u></p> <p>Casings pulled out. A red painted wooden post, bearing an aluminum identification tag, was set into the hole collar.</p> <p>* Etch tube dip determinations: -42°(300'), -43.5°(600'), -44°(900'), -42.5°(1200').</p> <p>J. André Carrier 85 01 21</p>								

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HOLE NO: 620-19 PAGE: 1 of 11

Drilled by: BRADLEY BROS. LIMITED
 Started: 84 11
 Ended: 84 11

Property: MICHAUD BLOCK ; PN-620
 Township: of MICHAUD ; claim #40932
 Logged by: J. ANDRÉ CARRIER

Latitude: 119+00N
 Azimuth: 180°
 Élévation: ?

Longitude: 382+00E
 Dip: -55°(collar), *
 Length: 936 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz/ton			
0	174	NW casing.								
0	182	AW casing.								
178	936	AQ wireline core (very good to locally poor core recovery; fair to locally very poor R.Q.P.) laid into 31 boxes.								
0	174	<u>OVERBURDEN</u> Sand resting on some 20' of coarse gravel (good aquifer with artesian water).								
178	190	<u>METASEDIMENTS & SHEARED LAVAS</u> Blackish grey to black, sheared, magnetic basic rocks & fine-grained, usually non-magnetic, metasediments. Some medium-grained basalt in the first feet (maybe boulders?). Lost core: 1' between 178 & 186, 185.5-186. 8695: < 1/8% Py; control. Sheared (30-45°GA) blackish calcareous metasediments (shaly siltstone?). >10% whitish calcite-rich veinlet, stringers & patches. 4.5' of core recovered.	8695	185.0	190.0	5.0	Tr.			

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HOLE NO: 620-19

PAGE: 2 of 11

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
190	325	<u>ANDESITE / BASALT</u> Fine to some medium-grained, greenish grey & greyish green lavas. Usually relatively massive; locally sheared or tuffaceous (40% A at 259, 60% A at 321), and/or brecciated (especially 280-312 where it is cemented by light greenish grey fine-grained calcitic matter (10% of it locally). A little sharnized above 210; epidotized here & there. A little Py, locally reaching 1/4%.								
		8696: $\leq 1/8\%$ Py (fine-grained disseminations). 2' dark grey, 2' dark greyish-green (lava?) with gradual color change; ~1% hairline to mm. fractures sutured by pale grey calcitic carbonates.	8696	190.0	194.0	4.0	Tr.			
		8697: $\leq 1/4\%$ Py (fine to medium-grained disseminations). Light greenish-grey (tinge of brown locally) sharny, slightly wuggy, somewhat magnetic; 30% dark green; < 10% calcite (in light greenish grey).	8697	194.0	199.0	5.0	Tr.			
		8698: $\leq 1/4\%$ Py (fine to medium-grained disseminations). Rather dark green basic lavas, magnetic; 10-15% lighter colored, epidotized (yellowish green); ~1% calcite	8698	199.0	204.0	5.0	0.01			

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HOLE NO: 620-19

PAGE: 3 of 11

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		stringers, >1% brown sharry streaks								
		8699: $\leq 1/4\%$ Py (fine to medium-grained disseminations). $1/3$ medium to dark greenish grey, $2/3$ dark green; epidote locally in patches; Py mostly in upper half; banding $\sim 30-40^\circ\text{C}/\text{A}$.	8699	204.0	209.0	5.0	Tr.			
		8709: $\geq 1/8\%$ Py (disseminations & stringers). Fine to medium-grained gabbroic basalt, medium dark greenish grey; 2% epidote stringers, >1% calcite stringer.	8709	226.0	231.0	5.0	Tr.			
		8710: I dem *8709, except 4% epidote stringers & no calcite stringer.	8710	231.0	236.0	5.0	Tr.			
		8711: $< 1/8\%$ Py (very fine-grained disseminations); control. Dark green tuffaceous chloritized & epidotized basalt. Very little to non-magnetic.	8711	320.5	325.0	4.5	Tr.			
325	341	<u>GREY FELDSPAR PORPHYRY</u> Fine to medium-grained feldspar phenocrysts, >10% dark mafic fragments or minerals; tinge of reddish in last 6". One to two percent greenish black, chloritic cm. fragments; traces of calcite in lower half, slight suggestion of foliation, non-magnetic. Fair contacts (upper at $65^\circ\text{C}/\text{A}$ with relatively massive basalt; lower at $50^\circ\text{C}/\text{A}$ with								

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		well laminated basalt or tuff. Very blocky core. Lost core: 2' from 326 to 336, 1.5' from 336 to 341.								
		8700: Minor to traces of Py. Relatively dark greenish grey porphyry. 4.5' recovered.	8700	325.0	331.0	6.0	Tr.			
		8701: I dem # 8700, but 3.5' recovered.	8701	331.0	336.0	5.0	Tr.			
		8702: I dem # 8700, but trace of reddish in last 6" and 3.5' of core recovered.	8702	336.0	341.0	5.0	Tr.			
341	419	<u>BASIC LAVAS & SUBVOLCANIC ROCKS</u> Medium grey to blackish, magnetic usually, mixture of biotite subvolcanic rocks, basalts & tuff. Blocky core. 347.5-358 & 383-401.5 are lamprophyric (blackish, slightly greenish, grey with fine to medium-grained biotite phenocrysts), a little magnetic; considered subvolcanic. (359-364.5): grey feldspar porphyry (similar to 325-341), very blocky core. Lost core: 347-347.5, 365.5-366, 369-370, 376-376.5, 392-392.5.								
		8703: < 1/8 % Py (very fine-grained disseminations). Dark green, 1/3 pale to medium grey; upper foot laminated 60°C/A, locally a little foliated below. 6' recovered.	8703	341.0	347.5	6.5	Tr.			

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HOLE NO: 620-19

PAGE: 5 of 11

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		B704: Minor Py; control. Lamprophyric & relatively massive.	B704	347.5	352.5	5.0	Tr.			
		B705: < 1/8% Py (last foot); control. Similar to #B704, but smaller biotite phenocrysts; last foot mixed with tuffaceous basalt, sheared 35°/A.	B705	352.5	358.5	6.0	Tr.			
		B706: < 1/8% Py (very fine-grained disseminations). Grey porphyry.	B706	358.5	362.0	3.5	Tr.			
		B707: ≤ 1/8% Py (fine & very fine-grained disseminations). Grey porphyry.	B707	362.0	364.5	2.5	Tr.			
		B708: Minor Py (upper half mostly); control. Basic tuff, mm. laminated or sheared (~40°/A average), soft, chloritized, some % calcite admixed or in visible laminations and streaks. 5.5' of core recovered.	B708	364.5	371.5	7.0	Tr.			
419	605	<p><u>BASIC TO ULTRABASIC ROCKS</u></p> <p>Bluish black to blackish grey, magnetic, fine-grained, often talcose, chloritized (& ser-pentinized?) mostly ultrabasic rock.</p> <p>Some whitish carbonate (with calcite and increasing with depth) stringers & fillings, reaching 2% around 550 and even 20% (some-what breccia-like) between 596.5 and 600.</p> <p>A little Py above 536 (enriched locally).</p> <p>Both contacts are gradual & subjective to</p>								

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HOLE NO: 620-19

PAGE: 6 of 11

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		<i>a certain degree.</i> Lost core: 424-426, 430.5-431, 434-435, 436-437, 438-439, 440.5-442, 444.5-446, 450- 451, 455.5-456, 459.5-460, 460.5-461, 504-505, 582-584.								
		8712: ~3/4% Py (medium-grained dissemina- tions). Bluish black talcose & chloritized ultrabasic rock; little calcite; schistosi- ty average 40°C/A.	8712	514.0	519.0	5.0	Tr.			
		8713: ~1/2% Py (fine & medium-grained disse- minations, also in stringer). I dem rock # 8712, but >2% calcitic carbonate; local stringers shear ~20°C/A.	8713	528.0	533.0	5.0	Tr.			
605	632	<u>SHEAR ZONE & BRECCIA</u> Sheared & fractured ultrabasic rocks; mag- netic; cm. to dm. fragments sutured by hairline whitish stringers; foliated & folded portions are rich in mm. fragments with approxima- te average schistosity of 60°C/A. Less than 2% whitish carbonate stringers. A little Py (1% very locally & in mm. cubes). Lost core: 631.5-632.								

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HOLE NO: 620-19

PAGE: 7 of 11

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
632	750.5	<u>BASIC TO ULTRABASIC ROCKS</u> (Similar to 419-605). Generally bluish black, exceptionally some soot black portion. 1-3% mm. to some cm. whitish carbonate stringers. Practically only minor Py (1% very locally).								
750.5	840	<u>DACITE (with ULTRABASIC ROCKS)</u> Medium grey (slight brownish tinge to it), fine-grained; cm. fractured, sutured by 1-5% mm. & hairline calcitic white stringers & fillings; locally open fractures, often a little vuggy. Blochy core, magnetic. Three siliceous reddish inch-scale layers (or fragments) near 814. Usually minor Py. (755-761.5, 811-812.5, 829-840): ultrabasic similar to 632-750.5; some Py in last intersection. 8714: Minor Py; control. Fractured dacite sutured by ~3% carbonate (with calcite) streaks, stringers & patches. Open fractures. 8715: Minor Py. Similar to #8714, ~1% carbonate streaks. Blochy core. 3.5' recovered.								
			8714	784.5	789.5	5.0	Tr.			
			8715	805.5	810.0	4.5	Tr.			

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HOLE NO: 620-19

PAGE: 8 of 11

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton.			
		B716: Minor Py; control. Blackish ultrabasic; ~3% carbonates (with calcite) stringers & streaks. 2' of core recovered.	B716	810.0	812.5	2.5	Tr.			
		B717: $\geq 1/8\%$ Py (fine-grained disseminations & trains of grains). Fractured dacite, foliated $\sim 45^\circ$; ~1% carbonate streaks; 6% reddish siliceous layers. 3' of core recovered.	B717	812.5	816.0	3.5	Tr.			
		B718: $\leq 1/8\%$ Py (fine-grained & segregations). Fractured dacite, somewhat rugged & with open fractures; 1-2% carbonate streaks & stringers. 3.5' recovered.	B718	816.0	820.0	4.0	Tr.			
		B719: I dem # B718; 2% carbonate streaks & stringers. Open fractures. 3.5' of core recovered.	B719	820.0	826.0	6.0	Tr.			
		B720: Minor Py. Rock idem # B718; 2% carbonates stringers. 2.0' recovered.	B720	826.0	830.0	4.0	Tr.			
		B721: $\leq 1/8\%$ Py (fine & medium-grained disseminations). Upper $2/3$ blocky core, in part ground. More or less sheared (foliated) $\sim 45^\circ$. 2.5' recovered.	B721	830.0	834.5	4.5	Tr.			
		B722: $\geq 1/4\%$ Py (fine & medium-grained disseminations). Dark grey ultrabasic (blackish at lower end); more or less sheared (foliated) $\sim 45-35^\circ$. 5' of core recovered.	B722	834.5	840.0	5.5	Tr.			

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HOLE NO: 620-19

PAGE: 9 of 11

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz/ton			
840	858	<p><u>PINK & GREY FELDSPAR PORPHYRY</u></p> <p>Non-magnetic; fine to medium-grained subhedral pale feldspar phenocrysts. Upper feet somewhat translucent & felsitic, also reddish and more closely fractured (& sutured) and containing greyish chlorite stringers & streaks. The rest is greyish, except slight reddish developing in last feet. Several open fractures. Blocky core at several places.</p> <p>Lost core: 844.5-845, 846.5-847, 851.5-852, 856-858.</p> <p>Upper contact good (2500A), lower contact ground & destroyed.</p> <p>8723: ~1/8% Py (fine to very fine-grained disseminations, some medium aggregates). Reddish grey, partly felsitic, fractured, feldspar porphyry, 1-2% greyish chlorite streaks & joints coatings; occasional vugs.</p> <p>8724: <1/8% Py. I dem # 8723, but <1% chlorite streaks. 2.5' of core recovered.</p> <p>8725: <1/8% Py (fine-grained disseminations). Grey, fine to some medium-grained feldspar porphyry (slight tinge of reddish); practically no chlorite streaks. 1.5' of core recovered.</p>								
			8723	840.0	842.0	2.0	Tr.			
			8724	842.0	845.0	3.0	Tr.			
			8725	845.0	847.0	2.0	Tr.			

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HOLE NO: 620-19 PAGE: 10 of 11

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		8726: < 1/8% Py (fine-grained disseminations). Similar to #8725, some lighter grey.	8726	847.0	849.0	2.0	Tr.			
		8727: Minor Py. Grey, fine to medium-grained, feldspar phenocrysts porphyry; locally trace of pinkish. 2.5' of core recovered.	8727	849.0	852.0	3.0	Tr.			
		8728: < 1/8% Py (very fine-grained dissemina- tions). Grey porphyry with a little red- dish developing at several places. Quite blocky core. ~4' of core recovered.	8728	852.0	858.0	6.0	Tr.			
858	936	<u>BASIC TO ULTRABASIC ROCKS</u> (Similar to 419-605) Blackish grey to black (locally medium to dark grey), fine-grained, soft; chloritized, somewhat talcose & serpentinitized. Magnetic. Brecciated (fractured), especially below ~880 where ~5% whitish carbonates (with calcite) mm. to cm. stringers & fillings. Blocky core & low angle schistose near 885.								
		8729: ~1/8% Py. Ultrabasic rock. [1 st part of turned over core box!].	8729	858.0	883.0	11.0	Tr.			
		8730: I dem #8729, plus 3' black portion (hard to scratch) & chips of whole inter- section. [2 nd part of turned over core box!].	8730	858.0	883.0	~11.0	Tr.			

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HOLE NO: 620-19

PAGE: // of //

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
	936	<p><u>END OF HOLE.</u></p> <p>Casings pulled out. A red painted wooden post, bearing an aluminum identification tag, was set into the hole collar.</p> <p>* Etch tube dip determinations: -52.5°(300'), -51°(600'), -51°(900').</p> <p>J. André Carrier 85 01 19</p>								

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HOLE NO: 620-20 PAGE: 1 of 14

Drilled by: BRADLEY BROS. LIMITED
 Started: 84 11 20
 Ended: 84 11 24

Property: MICHAUD BLOCK; PN-620
 Township: of MICHAUD; claim # 40912
 Logged by: J. ANDRÉ CARRIER

Latitude: 121+00N
 Azimuth: 0°
 Élévation: ?

Longitude: 290+00E
 Dip: -45° (collar), *
 Length: 656 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
0	100	NW casing								
0	114	AW casing								
114	656	AQ wireline core (excellent to locally fair core recovery; good to fair R.Q.V.) laid into 23 boxes.								
0	111	<u>OVER BURDEN</u> 0-32: sand 32-111: coarse gravel.								
111	183.5	<u>MIXED FACIES OF LATH FELDSPAR PORPHYRIES</u> Purplish to reddish greys to greyish red (locally some brick red) assemblage of pale lath feldspar phenocrysts in abundant greyish matrix and of abundant whitish and pale greyish coarser lath feldspar phenocrysts in reddish (granulated?) matrix. Occasional finer-grained siliceous-looking portion; rare quartz stringers. Minor Py, locally reaching < 1%. Abundant coarser phenoc above 131;								

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HOLE NO: 620-20 PAGE: 2 of 14

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Av oz./ton			
		<i>finer-grained & brick red 151 ~ 156.</i>								
		<i>Lost core: 125.5-126, 130.5-131, 145.5-146, 147.5-148, 153.5-154.5.</i>								
		<i>8731: ~ 1/4% Py (fine-grained, disseminated). 10% coarse feldspar phenocr, fine reddish grey matrix in last 3' (which show incipient foliation and hold all the Py); upper 2' are coarse porphyritic syenite (barren). 4.5' of core recovered.</i>	8731	146.0	151.0	5.0	0.01			
		<i>8732: < 1/8% Py. Granulated (partly almost felicitic), almost all brick red, porphyritic syenite (may include some lath feldspar porphyry). ~ 4' recovered.</i>	8732	151.0	156.0	5.0	0.01			
		<i>8733: > 1/8% Py (fine-grained disseminated, in upper end). Purplish grey porphyritic syenite (some reddish in upper half).</i>	8733	156.0	161.0	5.0	Tr.			
183.5	204.0	<u>MAFIC INCLUSION</u> <i>50% chloritic, frequently epidotized, fine to nearly medium-grained, greenish black, magnetic volcanic rocks cut by 50% dark reddish to greenish grey subvolcanic intrusive rocks (often mafic contaminated except for some fresh-looking dykelets).</i>								

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HOLE NO: 620-20

PAGE: 3 of 14

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
204.0	298.0	<p>Minor Py seen in some intrusive rocks only. Lost core: 199-200.</p> <p><u>LATH FELDSPAR PORPHYRY</u></p> <p>Brownish greyish red; on average, cm. feldspar phenocrysts (usually pale pink to whitish grey, locally darker grey to dark red). Several fine-grained, siliceous-looking portions (often Py-bearing).</p> <p>Frequent enrichment in pale greyish fine-grained sericitized (?) chlorite, forming aggregates and/or matrix (up to 20% locally and sometimes holding very fine-grained Py).</p> <p>Non-magnetic (except in rare darker portion). Rarely a quartz stringer. Usually minor Py (reaching < 1/4% locally).</p> <p>(225.0-228.5): purplish grey, fine-grained, subvolcanic dyke (?); slightly reddish discolorated along several hairline fractures, somewhat magnetic; neat contacts ~50°/A, foliation unclear; some fine-grained phenocr developing. Minor to traces of Py.</p> <p>8734: < 1/8% Py (disseminated). 4' of lath feldspar porphyry holding 5-10% greyish</p>								
			8734	215.0	220.0	5.0	0.01			

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HOLE NO: 620-20

PAGE: 4 of 14

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz/ton			
		<i>chlorite aggregates & matrix; 1' of pale reddish siliceous-looking portion.</i>								
		<i>8735: Minor Py. Porphyry similar to #8734 (darker phase on lower foot), locally more greyish chlorite. Control.</i>	<i>8735</i>	<i>220.0</i>	<i>225.0</i>	<i>5.0</i>	<i>0.01</i>			
		<i>8736: Minor Py (very fine-grained); control. Medium to dark brownish purplish grey felsic syenite. A little magnetic.</i>	<i>8736</i>	<i>225.0</i>	<i>228.5</i>	<i>3.5</i>	<i>0.01</i>			
		<i>8737: $\leq 1/8\%$ Py (disseminated); control. Reddish lath feldspar porphyry, 10-20% greyish chlorite or aggregates & matrix.</i>	<i>8737</i>	<i>228.5</i>	<i>233.5</i>	<i>5.0</i>	<i>Tr.</i>			
<i>298.0</i>	<i>362.5</i>	<u><i>PINKISH PORPHYRY (65%), DARK SYENITE (35%)</i></u> <i>Anhedral to subhedral medium-grained feldspar phase in a somewhat translucent matrix mixture (partly felsitic, partly fine-grained feldspars, partly fine-grained sericitized & chloritized mafics) forming a pinkish to reddish brown porphyry (most abundant in upper half).</i> <i>Medium-grained subhedral feldspars & 15-25% blackish mafic syenite (locally porphyritic) found at several places (mostly upper end and fourth-fifth of intersection),</i>								

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HOLE NO: 620-20 PAGE: 5 of 14

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		<i>mixed with the porphyry and showing diffuse, more or less gradual, contacts with it. Some Py nearby, everywhere in the porphyry. A little blocky core near lower end.</i>								
		<i>8738: ~ 1/8% Py (mostly upper contact). 70% medium to dark purplish grey, 30% light reddish gradual contacts in lowest 3 feet.</i>	8738	298.0	303.0	5.0	Tr.			
		<i>8739: ≥ 1/4% Py (fine-grained disseminations, mostly aggregates). ~ 1% diffuse quartz stringers; pinkish porphyry with some greyish mafics.</i>	8739	303.0	308.0	5.0	Tr.			
		<i>8740: ~ 1/4% Py (fine-grained disseminations, mostly trains). Greyish chlorite-sericite streaks & grains favourable for Py. 4" blackish laminated (50% A) sutured shear zone. Most of the rock is reddish to pink feldspar porphyries.</i>	8740	308.0	313.0	5.0	Tr.			
		<i>8741: ≤ 1/4% Py (fine-grained disseminations). Reddish (tinge of greyish) brown porphyry (fading phenocrysts!); several dark grey sutured hairline fractures.</i>	8741	313.0	318.0	5.0	Tr.			
		<i>8742: ≤ 1/4% Py (fine-grained disseminations). Similar to * 8741 (less greyish, more pinkish).</i>	8742	318.0	323.0	5.0	Tr.			

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HOLE NO: 620-20

PAGE: 6 of 14

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton	S in %		
		8743: $\leq 1/4\%$ Py (fine-grained disseminations). One foot dark reddish & syenitic; the other four feet idem # 8742.	8743	323.0	328.0	5.0	Tr.			
		8744: $< 1/8\%$ Py (disseminated in pink). ~ Half syenitic & darker; other 1/2 pinkish brown.	8744	328.0	333.0	5.0	Tr.			
		8745: $\sim 1/4\%$ Py (disseminated, mostly in lower half streaks). 20% syenitic, the rest pinkish; best Py follows greyish streaks & fractures.	8745	333.0	338.0	5.0	Tr.	1.16		
		8746: $\sim 1/2\%$ Py (disseminated, mostly in up- per half streaks). I dem # 8745.	8746	338.0	342.5	4.5	Tr.	1.88		
		8747: $< 1/8\%$ Py (disseminated in pinkish). 1/3 pinkish altered & siliceous; 2/3 medium-grained syenite.	8747	342.5	345.0	2.5	Tr.			
		8748: $< 1/8\%$ Py (disseminated). Medium dark syenite, a little altered (finer-grained & reddish) along some cracks.	8748	345.0	349.0	4.0	Tr.			
		8749: I dem # 8748, except 25% pinkish al- tered (& holding Py).	8749	349.0	352.0	3.0	Tr.			
		8750: I dem # 8749.	8750	352.0	356.5	4.5	Tr.			
		8751: $< 1/8\%$ Py (disseminated). Pinkish por- phyry; ~25% remnants of dark syenite.	8751	356.5	359.5	3.0	Tr.			
		8752: $< 1/8\%$ Py (disseminated); Pinkish porphyry (some lath of feldspar well pre- served).	8752	359.5	362.5	3.0	0.01			

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
362.5	367.7	<u>BRECCIATED & FRACTURED ZONE</u> 2' of pinkish grey mm. fractured & hairline chlorite bearing breccia resting on 2' of black, relatively soft, minor calcite-bearing, medium-grained fragments & crystals, weakly magnetic, ultrabasic rock (kimberlite? pyroclastic rock?) breccia lying on 1' of reddish cm. to inch-size fragments breccia cemented by 10% pinkish white calcite and 10% blackish chloritic fragments & matrix. Only minor Py. 8753: Minor Py; control. ~25% chlorite in hairline fractures; <mm. to cm. brecciated. 8754: Minor Py; control. mm. to <cm. fragments ultrabasic breccia. 8755: Minor Py (in red fragments); control. 15% calcite, 15% chlorite; breccia.	8753	362.5	364.5	2.0	0.01			
			8754	364.5	366.5	2.0	0.01			
			8755	366.5	367.7	1.2	0.03			
367.7	391.5	<u>RED ALTERED PORPHYRY</u> More fine-grained portions in upper half, also several fractures coated with hairline chlorite (especially abundant 371-373). Lower half mostly medium-grained. Locally a little brick red alteration.								

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HOLE NO: 620-20

PAGE: 8 of 14

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		<p>Mostly minor Py. Lost core: 371-372, 376-377, 381.5-382, 390.5-391.5.</p>								
		<p>B756: ~1/8% Py (fine-grained disseminations). Some brick red portions, < 1/2% chlorite hairline coatings; reddish altered por- phyry. 4' of core recovered.</p>	B756	367.7	372.0	4.3	Tr.			
		<p>B757: < 1/8% Py (fine-grained disseminations). I dem # B756, but ~1% chlorite hairline coatings. 4' of core recovered.</p>	B757	372.0	377.0	5.0	0.01			
		<p>B758: ~1/8% Py (fine-grained, mostly in lower end). Some felsitic in upper half, reddish altered porphyry. 4.5' recovered.</p>	B758	377.0	382.0	5.0	0.01			
		<p>B759: < 1/8% Py (fine-grained disseminations). Reddish altered porphyry (~10% greyish chloritic mafics).</p>	B759	382.0	386.5	4.5	0.01			
		<p>B760: I dem # B759, but little to no chlo- ritic mafics. 4.0' of core recovered.</p>	B760	386.5	391.5	5.0	Tr.			
391.5	439	<p><u>≥ 50% BRICK RED ALTERED PORPHYRIES</u> Lath feldspar porphyry, greyish mafic porphyry and some siliceous-looking felsitic portions, all more or less thoroughly brick red hematized. In places, clearly finely frac- tured in place; here & there, chlorite coatings</p>								

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HOLE NO: 620-20

PAGE: 9 of 14

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton	S in %		
		found on joints. Only locally blocky core. Contacts approximative and based on the abundance of brick red matter. Minor to a little Py (~1% from 420 to 425). Lost core: 410-410.5, 424-424.5.								
		8761: < 1/8% to minor Py. Intensely fractured, over half of the rock is brick red altered (with fading feldspar phenocrysts outline). Former mixed porphyries.	8761	391.5	398.5	7.0	Tr.			
		8762: Minor Py. Reddish altered porphyry (5-10% greyish chlorite mafics).	8762	398.5	402.0	3.5	Tr.			
		8763: Minor Py; control. 80% lath feldspar porphyry (>10% greyish altered mafics).	8763	402.0	405.5	3.5	Tr.			
		8764: ~ 1/2% Py (fine-grained disseminations). Reddish to greyish brown (a little brick red), some minute fracturing, some blackish mafic minerals. 4.5' recovered.	8764	405.5	410.5	5.0	0.01			
		8765: > 1/8% Py (fine-grained disseminations). 1/3 purplish greyish red; the rest brick to deep red altered porphyries.	8765	410.5	414.5	4.0	Tr.			
		8766: Minor Py. Mostly brick & deep red altered porphyries (some blackish mafic minerals, a little greyish altered mafics).	8766	414.5	419.5	5.0	Tr.	0.50		
		8767: ≤ 1% Py (fine & medium-grained, often cubic; half of it in trains near 420). Intense brick red mixed with some red altered porphyries.	8767	419.5	424.5	5.0	Tr.	1.12		

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HOLE NO: 620-20

PAGE: 10 of 14

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton	S in %		
		4.5' of core recovered.								
		8768: $\geq 1/8\%$ Py (fine-grained disseminations). Intense brick red to brownish, felsitic appearance, some beige discoloration along hairline fractures.	8768	424.5	426.0	1.5	Tr.	0.81		
		8769: Minor to $< 1/8\%$ Py. Partial brick red development in red altered porphyry (upper half) and lath feldspar porphyry (lower half).	8769	426.0	431.5	5.5	Tr.	0.20		
		8770: $\sim 1/4\%$ Py (fine-grained disseminations; in fine-grained & felsitic portions). Upper and lath porphyry, grading into fine-grained to felsitic siliceous-looking central part (including 2" of chlorite-coated fractures breccia), itself grading into red altered porphyry. Brick red developing into all rock types.	8770	431.5	437.0	5.5	0.02			
		8771: Minor Py. 2' fractured & brecciated, brick red altered porphyry; 2.5' of red altered lath porphyry ($< 10\%$ grey mafic).	8771	437.0	441.5	4.5	0.01			
439	483.5	<u>REDDISH ALTERED PORPHYRIES & SYENITE</u> Greyish reds (some brick red) matrix developed into lath feldspar porphyry (half of 439-470); dark syenite (mostly 470-475); and red altered porphyry (with greyish mafic minerals).								

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HOLE NO: 620-20

PAGE: 11 of 14

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton	S in %		
		8772: Minor to $< 1/8\%$ Py. Red altered coarse lath feldspar porphyry; 10% felsitic portion; $1/3$ medium-grained porphyry.	8772	463.0	468.0	5.0	Tr.			
		8773: $\leq 1\%$ Py (disseminated & mostly trains). 50% red altered coarse lath feldspar porphyry; 5% mafic inclusions; $\sim 45\%$ altered dark syenite.	8773	468.0	473.0	5.0	Tr.	1.20		
		8774: $\geq 1/8\%$ Py (fine-grained disseminations, rare aggregates). $\sim 40\%$ red altered coarse lath feldspar porphyry; $\sim 60\%$ altered dark syenite.	8774	473.0	475.0	2.0	Tr.			
483.5	501.0	<u>ALTERED DARK SYENITE</u> Pinkish blackish grey, medium-grained syenite; reddish and pinkish altered along various fractures (more so at upper end), giving it a sort of barber-pole appearance. Slight magnetism in some dark portions. Some Py (mostly in pale portions of upper third of intersection).								
		8775: $< 1/8\%$ Py (fine-grained). $2/3$ reddish altered, $1/3$ fresh-looking dark syenite, $1/2\%$ quartz stringers.	8775	483.5	486.0	2.5	0.01			
		8776: $\sim 1/2\%$ Py (fine-grained, mostly trains in fractures amongst pinkish). $1/2$ reddish & pinkish altered dark syenite; $1/2$ fine-grained to felsitic pinkish siliceous-looking.	8776	486.0	490.5	4.5	Tr.	1.13		

Falconbridge Ltd.

HOLE NO: 620-20

PAGE: 12 of 14

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./Ton			
501.0	560.5	<u>REDDISH ALTERED PORPHYRIES & SYENITE</u> 45% lath feldspar porphyry; 25% dark syenite; 30% finer-grained porphyry, felsitic siliceous & admixtures; all pinkish to reddish hematized (often with barber-pole effect in dark syenite). Occasional thin quartz stringer (more or less diffuse contacts). Usually little Py. 8777: ~ 3/8 % Py (disseminations & trains in fractures). Contaminated lath feldspar porphyry (fractured). 8778: ~ 1/4 % Py (streaks & trains in pale siliceous). 20% quartzose whitish portions; 80% pinkish altered feldspar porphyries (mostly fine to medium-grained). 8779: Minor Py; control. Pinkish red altered (mostly fine to medium-grained) feldspar porphyries.	8777 8778 8779	501.0 551.0 556.5	506.0 556.5 560.5	5.0 5.5 4.0	0.01 Tr. Tr.			
560.5	574.0	<u>DARK SYENITE</u> Reddish blackish grey, medium-grained syenite; locally pinkish altered (developing a barber-pole appearance). Containing a portion of pinkish red altered fine-grained porphyritic syenite 566-568 with two 1/4" quartz stringers.								

Falconbridge Ltd.

HOLE NO: 620-20

PAGE: 13 of 14

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
574.0	642.0	<u>REDDISH ALTERED PORPHYRIES & SYENITE</u> (similar to 501.0-560.5). Some greyish sericitized-chloritized mafics at several places (locally abundant). A little Py somewhat concentrated here & there.								
		0780: < 1/8% Py (mostly in red altered). 2/3 coarse pale phenocrysts both feldspar porphyry; 1/3 fine to medium-grained red altered porphyry; in both, ~10% greyish mafics.	0780	585.0	590.0	5.0	0.01			
		0781: < 1/4% Py (fine-grained disseminations). 15% dark syenite; 40% red altered dark syenite; 45% salmon to red felsitic siliceous portions.	0781	605.0	610.0	5.0	Tr.			
		0782: ~1/8% Py (fine-grained disseminations). 10% feldspar porphyry; 70% red to salmon altered dark syenite; 20% dark syenite; ~2% siliceous felsitic stringers (diffuse contacts).	0782	610.0	615.0	5.0	Tr.			
		0783: < 1/8% to minor Py. 2/3 dark syenite; 1/3 salmon pink altered (along cracks with silica enrichment) dark syenite & felsitic portions (some darker-pale appearance).	0783	615.0	620.0	5.0	NIL			

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton.			
642.0	651.5	<u>EPIDOTIZED MAFIC SYENITE</u> Greenish black medium-grained porphyritic mafic syenite, epidotized & chloritized. Magnetic. Locally trachytic alignment. 10% purplish dark grey, fine to medium-grained near lower end. 1% quartz & felsic stringers. Minor Py.								
		B784: Minor Py; control. Medium-grained, porphyritic, magnetic, epidotized & chloritized mafic syenite. 20% purplish fine-grained (with a little Py).	B784	646.5	651.5	5.0	0.02			
651.5	656.0	<u>RED ALTERED PORPHYRY</u> Medium-grained, 5-10% greyish mafic, red to brick red hematized. Minor Py.								
		B785: Minor Py; control. Salmon reddish porphyritic syenite or syenite porphyry; ~5% greyish altered mafic minerals.	B785	651.5	656.0	4.5	Tr.			
	656.0	<u>END OF HOLE.</u> Casing pulled out. A red painted wooden post, bearing an aluminum identification tag, was set into the hole collar. * Etek tube dip determinations: -43.5° at 300', -42.5° at 600'. J. André Carrier 85 01 19								

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HOLE NO: 620-21

PAGE: 1 of 7

Drilled by: BRADLEY BROS. LIMITED
 Started: 04 11 26
 Ended: 04 11 26

Property: MICHAUD BLOCK; PN-620
 Township: of MICHAUD; claim # 40915
 Logged by: J. ANDRÉ CARRIER

Latitude: 130+15 N
 Azimuth: 135°
 Élévation: ?

Longitude: 310+75 E
 Dip: -45° (collar)
 Length: 126 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
0	12	AW casing.								
9	12	NX core								
12	126	AQ wireline core (excellent to good core recovery; good to fair R.Q.D.) laid into 6 boxes.								
0	9	<u>OVERBURDEN</u> Sandy soil with boulders.								
9	13.5	<u>PINKISH GREY PORPHYRITIC SYENITE</u> Partly reddish altered. B786: Minor Py; control. NX core, unsplit; little altered. ~ 2' recovered. B787: < 1/8% Py (cubes & thin stringers). 1/3 reddish (holding Py); 2/3 purplish grey porphyritic syenite.	B786 B787	9.0 12.0	12.0 13.5	3.0 1.5	Tr. Tr.			
13.5	~36.5	<u>REDDISH LATH PORPHYRY & SYENITE</u> Various facies of lath porphyry (mostly coarse lath phenocrysts or relatively fine-grained porphyritic syenite, occasionally some black mafic minerals admixed to it or a little pale greyish altered mafic). Minor to some Py (locally reaching below 1%). At 35', lost water; seam.								

Falconbridge Ltd.

HOLE NO: 620-21

PAGE: 2 of 7

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz/ton			
		At lower end, mixture of aplite & reddish laminated-fluidal textured (tectonite?). Lost core: 14.5-15, 34-34.5.								
		8788: $\leq 1/8\%$ Py (fine-grained disseminations). Reddish syenite; 2.0' recovered	8788	13.5	16.0	2.5	0.01			
		8789: $\sim 3/4\%$ Py (fine-grained disseminations, some stringers & segregated zones). Lath feldspar porphyry, some fine-grained syenitic portions.	8789	16.0	19.0	3.0	0.02			
		8790: $\leq 1/8\%$ Py (fine-grained disseminations). $2/3$ reddish (fine-grained syenite & lath feldspar porphyry), $1/3$ lath porphyry holding 10-15% dark mafic minerals.	8790	19.0	24.0	5.0	Tr.			
		8791: $< 1/4\%$ Py (fine-grained disseminations). Mostly reddish lath porphyry; $> 1/2\%$ white quartz stringers & segregations.	8791	24.0	29.0	5.0	Tr.			
		8792: $< 1/8\%$ Py (fine-grained disseminations). Mostly reddish lath porphyry; $< 1/2\%$ white quartz stringers & segregations.	8792	29.0	34.0	5.0	Tr.			
		8793: Minor to $< 1/8\%$ Py (fine-grained). $1/2$ reddish altered porphyritic syenite (small lath porphyry); $1/4$ whitish siliceous (aplite); $1/4$ reddish siliceous laminated (syntectonic brecciation or fluidal texture?); $\sim 70^\circ\text{C/A}$ at 36). 2.0' of core recovered.	8793	34.0	36.5	2.5	0.01			

Falconbridge Ltd.

HOLE NO: 620-21

PAGE: 3 of 7

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
~36.5	50.5	<p><u>APLITE</u></p> <p>Very leucocratic, fine-grained, somewhat sugary texture; slight pinkish greyish white, cm. to dm. fractured (& well sutured). Slight trace of black dust all through, up to 1% reddish (weathering or alteration?) spots and streaks or stringer coatings. A little reddish development at 44 & 46.5. Reddish laminated (fluidal? : ~70°C/A) near upper end, possibly tectonite.</p> <p>(50.5-51.5): foliated blackish (~60°C/A) lying on coarse pale feldspar porphyry (reddish altered along cracks).</p> <p>Lost core: 45.5-46, 49-50.</p>								
		<p>8794: $\leq 1/8\%$ Py (fine to very fine-grained disseminations). Whitish, cm. to dm. fractured aplitic, < 1% dark fine-grained grains, 1-2% reddish streaks, small spots & fractures coatings.</p>	8794	36.5	41.5	5.0	0.01			
		<p>8795: < 1/8% Py (fine to very fine-grained disseminations). Similar to # 8794, but > 1% dark fine-grained grains & one third of the rock is greyish pink (reddish feldspar admixtures); fluidal textures: ~50°C/A at 44.</p>	8795	41.5	46.5	5.0	0.07			
		<p>8796: < 1/8% Py (trains in some stringers).</p>	8796	46.5	50.0	3.5	Tr.			

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HOLE NO: 620-21

PAGE: 4 of 7

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU OZ/TON			
50.5	60	<p>Greyish white, a little black grains; Traces of reddish spots. 2.5' core recovered.</p> <p><u>PINKISH GREY PORPHYRITIC SYENITE</u></p> <p>5-20% pale pink to whitish grey, fine to medium-grained (some nearly coarse) anhedral to subhedral feldspar phenocrysts, in medium to dark grey somewhat translucent fine to very fine-grained matrix. Occasionally a little magnetic. Reddish altered locally (mostly 57-60).</p>								
		8797: $\geq 1/8\%$ Py (fine to very fine-grained). $1/5$ greyish white aplitic (with red streaks); $1/5$ blackish laminated (a little magnetic); $2/5$ whitish coarse feldspars (red altered a-long minute fractures) holding cm. band of pink & of white siliceous; $1/5$ pinkish grey porphyritic syenite.	8797	50.0	52.0	2.0	Tr.			
		8798: $< 1/8\%$ Py (fine-grained disseminations). Pinkish grey porphyritic syenite, slight pinkish patch locally.	8798	52.0	57.0	5.0	NIL			
		8799: $\leq 1/8\%$ Py (fine-grained disseminations & trains in stringers). $> 1/2$ both feldspar porphyry or reddish and light-grey altered pinkish grey porphyritic syenite.	8799	57.0	60.5	3.5	0.01			
		8800: $< 1/8\%$ Py (idem # 8798). Idem # 8798, but slightly silicified & laminated at 63.	8800	60.5	65.5	5.0	NIL			
		8801: $< 1/8\%$ Py (idem # 8798). Idem # 8798, but slightly silicified at 60.	8801	65.5	68.5	3.0	Tr.			

Falconbridge Ltd.

HOLE NO: 620-21

PAGE: 5 of 7

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
68	87	<u>REDDISH LATH PORPHYRY & SYENITE</u> (similar to 13.5 ~ 36.5) Greyish red (well crystallized) to bright brick red (strongly hematized & granulated), coarse to medium-grained, often lath-shaped feldspar; < 10% black mafic minerals in last two feet. Py reaching 1% locally.								
		BB02: $\geq 1/8\%$ Py (fine-grained disseminations). $\sim 5\%$ whitish grey silicified, mostly reddish altered porphyritic syenite.	BB02	68.5	71.5	3.0'	Tr.			
		BB03: $\sim 1\%$ Py (fine-grained disseminations & mostly stringers). Partly granulated & hematized (to brick red locally) feldspar porphyry; probably including syenite; $\leq 1\%$ quartz stringers.	BB03	71.5	77.0	5.5	0.02			
		BB04: $< 1/8\%$ Py (fine-grained disseminations). Medium-grained porphyritic syenite (holding light greyish altered mafics in places); brownish red (two darker patches); 2-3% quartz stringers & patches.	BB04	77.0	82.0	5.0	Tr.			
		BB05: $\geq 1/8\%$ Py (fine to medium-grained disseminations & trains). 3' of reddish syenite idem # BB04; 2.5' coarse-grained lath feldspar porphyry (holding most of the Py and several % of black mafics in last foot).	BB05	82.0	87.5	5.5	Tr.			

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HOLE NO: 620-21 PAGE: 6 of 7

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
87	126	<u>COMPLEX MIXTURE OF LATH PORPHYRY (40%) & PINKISH GREY PORPHYRITIC SYENITE (30%), FREQUENTLY REDDISH ALTERED (30%)</u> Variable arrangement of rock types inter- sections, themselves divided by an irregularly distributed barbed pole effect of altered por- tions. Usually Py is favouring the red and reddish altered portions. (87-92.5, 107-112.5, 119.5-125): pinkish grey porphyritic syenite. (92.5-102.5, 125-126): reddish altered pinkish grey porphyritic syenite. (102.5-107, 112.5-119.5): reddish lath porphyry & syenite. 8806: $\leq 1/8\%$ Py (very fine & fine-grained dis- seminations). Purplish grey porphyritic syenite (lighter pinkish grey altered over half its length). 8807: $\sim 1/4\%$ Py (fine-grained disseminations). Reddish altered over $2/3$ of its length pinkish grey porphyritic syenite; some % quartz or silica-rich whitish grey por- tions. 8808: $> 1/4\%$ Py (fine-grained), mostly in a laminated decimeter at 99). $2/3$ reddish porphyritic lath feldspar syenite; $1/3$								
			8806	87.5	92.5	5.0	Tr.			
			8807	92.5	97.5	5.0	Tr.			
			8808	97.5	102.5	5.0	0.01			

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HOLE NO: 620-21

PAGE: 7 of 7

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
		purplish grey porphyritic syenite; ~1% quartz stringers.								
		BB09: ~1/8% Py (fine-grained disseminations). Red, partly granulated lath feldspar porphyry with portions holding ~5% greyish altered mafics (so-called "red- dish altered syenite").	BB09	102.5	107.5	5.0	Tr.			
		BB10: < 1/8% Py (fine-grained disseminations). I dem # 8806.	BB10	107.5	112.5	5.0	Tr.			
		BB11: ~1/4% Py (fine-grained trains at the contact). Upper half granulated so-cal- led "reddish altered syenite"; lower half coarse lath feldspar porphyry.	BB11	112.5	116.0	3.5	Tr.			
		BB12: > 1/8% Py (fine-grained disseminations & trains). Similar to # BB11, but dm. alternance.	BB12	116.0	119.5	3.5	Tr.			
		BB13: ~1/8% Py (fine-grained, disseminated all through). I dem # 8806.	BB13	119.5	124.0	4.5	Tr.			
		BB14: ≤ 1/8% Py (fine-grained coating stringer & disseminated). Similar to # 8806, but cut by dm. reddish porphyritic feldspar dykelet.	BB14	124.0	126.0	2.0	Tr.			
126		<u>END OF HOLE.</u> Casing pulled out. A red painted wooden post, bearing an aluminum identification tag, was set into the hole collar. J. André Carrier 85 01 11								

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HOLE NO: 620-22 PAGE: 1 of 8

Drilled by: BRADLEY BROS. LIMITED
 Started: B4 11 26
 Ended: B4 11 27

Property: MICHAUD BLOCK; PN-620
 Township: of MICHAUD; claim # 40915
 Logged by: J. ANDRÉ CARRIER

Latitude: 130+15N
 Azimuth: 180°
 Élévation: ?

Longitude: 310+75E
 Dip: -45°(collar)
 Length: 172 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
0	12	AW casing.								
~12	14	NX core.								
14	172	AQ wireline core (excellent to good core recovery; good to fair R.Q.D.) laid into 7 boxes.								
0	~12	<u>OVER BURDEN</u> Sandy soil with boulders. (Artesian water noted at depth).								
~12	32	<u>PINKISH GREY PORPHYRITIC SYENITE</u> Purplish grey porphyritic syenite (fine to medium-grained pinkish to whitish anhedral to anhedral feldspar phenocrysts in medium dark grey somewhat translucent fine to very fine-grained matrix); 25% pinkish red altered along cracks and intruded. Tendency to foliation locally (~45°). Minor to a little Py locally. BB15: ≤ 1/8% Py (fine-grained disseminations). Whole NX core (blocky). Pinkish grey porphyritic syenite cut by 25% red dykelets & dyke. BB16: Minor Py (fine-grained disseminations in red). Half reddish, half pinkish grey,	BB15	13.5	15.5	2.0	0.01			
			BB16	15.5	19.0	3.5	Tr.			

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HOLE NO: 620-22 PAGE: 2 of 8

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		<i>mostly fine-grained.</i>								
		<i>BB17: Minor Py (fine-grained disseminations in red intrusive last foot). The rest is similar to # BB16 with some medium-grained.</i>	<i>BB17</i>	<i>19.0</i>	<i>24.0</i>	<i>5.0</i>	<i>Tr.</i>			
		<i>BB18: Minor Py (very fine-grained disseminations in lower half). Little altered purplish grey porphyritic syenite (slight foliation: ~ 50°C/A).</i>	<i>BB18</i>	<i>24.0</i>	<i>27.5</i>	<i>3.5</i>	<i>NIL</i>			
		<i>BB19: > 1/8% Py (very fine-grained disseminations). 1/3 lighter pinkish grey altered & silicified along cracks (some barber pole appearance).</i>	<i>BB19</i>	<i>27.5</i>	<i>32.5</i>	<i>5.0</i>	<i>Tr.</i>			
<i>32</i>	<i>68</i>	<u><i>REDDISH LATH PORPHYRY & SYENITE</i></u> <i>Reddish grey (light greyish altered mafic) syenite, mixed with somewhat greyish red medium to coarse-grained lath feldspar porphyry; about same amount of both rock types, often gradual contact & mixing at the foot scale.</i> <i>Minor to a little Py, reaching 1% very locally.</i> <i>Foot core: 35.5-36, 38-38.5</i> <i>(68-70): mixed whitish aplite & reddish (35°C/A) laminated-fluidal textured felsitic matrix (tectonite probably); ~ 1% fine to medium-grained Py.</i>								

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HOLE NO: 620-22

PAGE: 3 of 8

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		BB20: Minor to $< 1/8\%$ Py (fine-grained). Granulated & light greyish altered mafic reddish lath porphyritic syenite. 3.0' of core recovered.	BB20	32.5	36.0	3.5	Tr.			
		BB21: $< 1/8\%$ Py (fine-grained disseminations). I dem # BB20, but less granulated, some coarse lath feldspar. 4.0' of core recovered.	BB21	36.0	40.5	4.5	NIL			
		BB22: $\leq 1/4\%$ Py (fine-grained disseminations). Reddish lath feldspar porphyry mixed with greyish altered mafic lath syenite.	BB22	40.5	45.0	4.5	0.03			
		BB23: $\sim 1/8\%$ Py (fine-grained disseminations). I dem # BB22, but clearer separation of both rock types.	BB23	45.0	47.0	2.0	0.02			
		BB24: $< 1/8\%$ Py (fine-grained disseminations). Similar # BB22, but a little more greyish altered mafic in lath syenite.	BB24	47.0	52.5	5.5	Tr.			
		BB25: $< 1/8\%$ Py (fine-grained disseminations). Similar to # BB22, but $> 20\%$ greyish altered mafic in lath syenite.	BB25	52.5	57.5	5.0	0.02			
		BB26: $< 1/8\%$ Py (fine-grained disseminations). Similar to # BB22, but coarser-grained.	BB26	57.5	63.0	5.5	Tr.			
		BB27: $< 1/8\%$ Py (fine-grained disseminations), mostly at 65°. Similar to # BB27, but mostly coarser-grained.	BB27	63.0	67.5	4.5	Tr.			
68	95	<u>APLITE</u> Whitish fine-grained aplite, cm. to dm. fractured (often entured entirely); lower $2/5$ tinge of								

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HOLE NO: 620-22

PAGE: 4 of 8

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		creamy, upper $\frac{3}{5}$ tinge of greenish iron grey. Contacts somewhat gradual or mixed. Minor Py, locally forming trains in stringers (richest: $\sim 1\%$ over 2' at upper mixed contact).								
		BB28: $\sim 1\%$ Py (fine-grained disseminations & trains, mostly in reddish). $\sim \frac{1}{2}$ reddish fine-grained to very fine-grained felsic portions (with some % mafics) mixed with whitish grey fine-grained aplite somewhat foliated (mostly at upper end).	BB28	67.5	70.0	2.5	Tr.			
		BB29: Minor Py (fine-grained disseminations). Fluidal arrangement ($\sim 30^\circ/\text{A}$) at upper end; $\geq 3\%$ pinkish red stringers and hematized aplite along cracks; $< 1\%$ blackish mineral dust.	BB29	70.0	75.0	5.0	Tr.			
		BB30: $< \frac{1}{8}\%$ Py (mostly trains in one stringer). Greyish white aplite holding $\sim 1\%$ black quartz stringers; incipient pinkish white m.m. feldspar phenoc.	BB30	75.0	80.0	5.0	Tr.			
		BB31: $< \frac{1}{8}\%$ Py (fine-grained, mostly trains in one stringer). Greyish white aplite; $< 1\%$ black mineral dust; incipient pinkish feldspar phenoc.	BB31	80.0	85.0	5.0	Tr.			
		BB32: $\sim \frac{1}{8}\%$ Py (fine-grained trains in one	BB32	85.0	90.0	5.0	Tr.			

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HOLE NO: 620-22 PAGE: 5 of 8

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
95	163	<p>stringer at upper end). Pinkish cream splite, < 1/4% black dust.</p> <p>BB33: < 1/8% Py (fine-grained disseminations, some in train). Pinkish then greyish cream splite, < 1% blackish opaque dust and chlorite streaks.</p> <p><u>PINKISH GREY PORPHYRITIC SYENITE</u></p> <p>(Similar to 12-32)</p> <p>Holding 5-25% fine-grained pale pinkish or whitish incipient feldspar phe- nocrysts. Generally homogeneous, except locally complex mixtures.</p> <p>Minor to a little Py locally.</p> <p>(95-99.5, 134.5-137): mixed reddish altered & pinkish grey.</p> <p>(130.5-134.5): reddish altered medium- grained syenite (~30°C/A contact at 130.5; >60°C/A colorwise at 134.5, but ~30°C/A weak foliation).</p> <p>BB34: > 1/8% Py (fine-grained disseminations & mostly trains in stringers in red rock). Half a foot fine-grained siliceous- looking pinkish grey splitic; then, over half reddish porphyritic syenite &</p>	BB33	90.0	95.0	5.0	Tr.			
			BB34	95.0	100.0	5.0	Tr.			

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HOLE NO: 620-22 PAGE: 6 of 8

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz/ton			
		<i>altered and fractured pinkish grey porphyritic syenite; 20% mafic over one foot at 96.</i>								
		<i>8835: Minor Py (fine-grained). Only a little barber-pole decoloration developing.</i>	<i>8835</i>	<i>100.0</i>	<i>105.0</i>	<i>5.0</i>	<i>Tr.</i>			
		<i>8836: Minor Py (fine-grained). ~3% reddish stringers portions in pinkish grey porphyritic syenite.</i>	<i>8836</i>	<i>105.0</i>	<i>110.0</i>	<i>5.0</i>	<i>Tr.</i>			
		<i>8837: Minor Py (fine-grained). Homogeneous pinkish grey porphyritic syenite (little altered).</i>	<i>8837</i>	<i>110.0</i>	<i>115.0</i>	<i>5.0</i>	<i>Tr.</i>			
		<i>8838: < 1/8% Py (fine-grained near 116). I dem #8837 but several medium-grained phenos; holding diffuse quartz stringers & patches with greenish black chloritic patches as well as reddish irregular layers from 116 to 117.</i>	<i>8838</i>	<i>115.0</i>	<i>120.5</i>	<i>5.5</i>	<i>NIL</i>			
		<i>8839: Minor Py (fine-grained). <5% reddish dykelet; pinkish grey porphyritic syenite with >3% medium-grained feldspar phenocrysts, slightly lighter color altered.</i>	<i>8839</i>	<i>120.5</i>	<i>125.5</i>	<i>5.0</i>	<i>Tr.</i>			
		<i>8840: Minor Py (very fine-grained). I dem #8835.</i>	<i>8840</i>	<i>125.5</i>	<i>130.5</i>	<i>5.0</i>	<i>NIL</i>			
		<i>8841: ~1/8% Py (fine-grained disseminations & trains in stringers). Grayish red syenite with redder altered fractures and some porphyritic feldspar patches.</i>	<i>8841</i>	<i>130.5</i>	<i>134.5</i>	<i>4.0</i>	<i>Tr.</i>			

Falconbridge Ltd.

HOLE NO: 620-22 PAGE: 7 of 8

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
		BB42: Minor Py (fine-grained disseminations). I dem # BB35, except lower 1/2 more ho- mogeneous purplish grey.	BB42	134.5	139.5	5.0	Tr.			
		BB43: Minor to traces of Py. Pinkish-grey por- phyritic syenite with > 5% mafic mine- rals at most places; 6" reddish dykelet at 142.5.	BB43	139.5	144.5	5.0	NIL			
		BB44: Minor Py. I dem # BB35.	BB44	144.5	149.5	5.0	Tr.			
		BB45: Minor Py. I dem # BB35; 2" reddish dykelet at 151.	BB45	149.5	154.5	5.0	Tr.			
		BB46: Minor Py. Pinkish grey porphyritic sye- nite with 5% red dykelets.	BB46	154.5	159.5	5.0	Tr.			
		BB47: Minor Py (very fine-grained disseminations). ~2% medium-grained feldspar phenocrysts pinkish grey porphyritic syenite, little altered.	BB47	159.5	163.0	3.5	Tr.			
163	172	<u>LATH FELDSPAR PORPHYRY</u> Coarse to medium-grained reddish lath feldspar porphyry, grading in places to medium- grained greyish red syenite (holding ~5% fine- grained light greyish altered mafic). Occasion- ally some quartz stringers < mm. to cm. Minor to a little Py locally. (168-171): partly reddish altered pinkish grey porphyritic syenite, holding 1" mafic lami- nation (50°C/A) containing fine-grained Py. BB48: ~1/8% Py (fine-grained). All reddish	BB48	163.0	168.0	5.0	Tr.			

Falconbridge Ltd.

HOLE NO: 620-22

PAGE: 8 of 8

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		<p>porphyry & syenite, overall < 5% grey mafic.</p> <p>8849: < 1/8% Py (mostly in mafic lamination at 169). 3/5 partly altered pinkish-grey porphyritic syenite, 2/5 lath feldspar porphyry.</p>	8849	168.0	172	4.0	NIL			
	172	<p><u>END OF HOLE.</u></p> <p>Casing pulled out. A red painted wooden post, bearing an aluminum identification tag, was set into the hole collar.</p> <p>J. André Carrier 85 01 11</p>								

GARRISON OPTION "GUIBORD TWP." PN-693

1984 DIAMOND DRILL LOGS, ASSAYS,

& GEOCHEMICAL GOLD

HOLES # 693-01 to 693-05

Falconbridge Ltd.

HOLE NO: 693-01

PAGE: 1 of 5

Drilled by: BRADLEY BROS. LIMITED

Property: GUIBORD BLOCK; PN-693

Latitude: 11+50N

Longitude: 10+00E

Started: 84 08 16

Township: of GUIBORD; CLAIM # 36725

Azimuth: 180°

Dip: -45°(collar), *

Ended: 84 08 21

Logged by: J. ANDRÉ CARRIER

Élévation: ?

Length: 746 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
0	130	NW casing								
0	204	AW casing								
184	746	AQ wireline core (fair to poor core recovery; fair to poor R.Q.D.) laid into 23 boxes).								
0	182	<u>OVERBURDEN</u> 0-60: clay on sand & gravel 60-182: gravel with boulders.								
182	746	<u>CHLORITE & SERPENTINE SHEARED ZONE</u> Blackish, locally bluish tinge at depth; easy to scratch; usually brecciated and/or sheared; somewhat to fairly magnetic. Frequent white calcite stringers & opening fillings (up to 20% locally); minor to traces of Py usually. Probably chloritized & serpentized (some what talcose) assemblage of ultrabasic or basic rocks holding some metasediments and occasional tuffs at depth. Average local schistosity: 30-50°/A.								

Falconbridge Ltd.

HOLE NO: 693-01

PAGE: 2 of 5

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
		<p>Probable bedding: ~20°/A (450'), 45° (601'), ~25° (610.5'), 25° (673').</p> <p>Locally, some chlorite in cross-stringer flake form. From 480 to ~565, local light pink calcite in stringers (color fainting at depth).</p> <p>Some to minor Py: 301-303 (2% Py cubes), 309.5, 327.5, 340, 407, 408, 432, 433, 601-610.5 (2% Py dust), 631, 633, 669, 673.</p> <p>Frequent blocky core. At 203, sandy seam.</p> <p>Lost core: 185-186, 186.5-187.5, 191-196, 198-204, 205-207, 209.5-214.5, 218-219.5, 221-226, 230-231.5, 272.5-273.5, 283-284.5, 294-294.5, 304-304.5, 321.5-322, 346.5-347, 471-473, 502.5-503.5, 508-509, 515.5-516, 523.5-525, 536-536.5, 553-553.5, 554.5-555, 575-575.5.</p> <p>(184-307+): gony shear zone; gony also at 471.</p> <p>(439.4-440.5): dark grey feldite (tinge of purple pink), non magnetic, massive. Upper contact (~20°/A and chlorite stringers invaded) and lower contact (55°/A, sheared) - make ~100° between themselves.</p> <p>(591-595): biotite lamprophyre (?); fine-grained at lower half, calcite-bearing, minor fine-grained Py.</p>								

Falconbridge Ltd.

HOLE NO: 693-01

PAGE 3 of 5

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
		(601-610.5): medium grey, calcite-shearing, grey-wacke-like strata; 45° upper contact, ~25°/A lower contact; varying from fine to medium-grained. Loaded with fine-grained Py dust (average estimated at 2% Py). A similar grey 6" layer exists at 596 but it holds little Py. From 440 to ~610, there might be a possibility of sorting out locally some rock types based on brecciation state, color tinges, ruginess of stringers, ...								
		07501: traces of Py; chloritic, a little talcose, sheared locally; ~10% calcite stringers subparallel to core axis.	07501	255.0	260.0	5.0	Tr.			
		07502: ~2% Py (cubes); sheared & brecciated, ~20% calcite (mostly brecciated band).	07502	301.0	303.0	2.0	0.006			
		07535: ~1/4% Py (fine-grained disseminated, also some aggregates); blackish, easy to scratch, chloritic & serpentinous, brecciated mixed with schistose; ~5% white carbonates (with calcite) in grains, minute stringers and fragments; locally magnetic. Control.	07535	430.0	435.0	5.0	0.002			

Falconbridge Ltd.

HOLE NO: 693-01

PAGE: 4 of 5

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		07811: Traces of Py; sheared or fractured chloritized & serpentized very soft ultramafic rock. Carbonated (grains & stringers) & probably talcose.	07811	435.0	439.1	4.1	tr			
		07812: Traces of Py; rather dark grey siliceous feldite, holding some chloritized grains and streaks.	07812	439.1	440.3	1.2	nil			
		07813: Traces of Py; similar to 07811.	07813	440.3	445.0	4.7	tr			
		07814: Traces of Py; similar to 07811 (might contain a fair amount of biotite in the last foot).	07814	445.0	450.0	5.0	nil			
		07536: Control; minor Py; serpentinous chlorite schist (9" of greywacke-like).	07536	596.0	601.0	5.0	0.002			

Falconbridge Ltd.

HOLE NO: 693-01

PAGE: 5 of 5

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		07537: ~1% Py (fine-grained disseminated); fine-to medium-grained greywacke like; 2% carbonates (with calcite) stringers.	07537	601.0	606.0	5.0	0.016			
		07538: ~3% Py (fine-grained disseminated); fine-to medium-grained greywacke like; 2% carbonates (+ calcite) stringers.	07538	606.0	610.5	4.5	0.018			
		07539: Control; minor Py; serpentinous chlorite schist, breccia fragments here & there.	07539	610.5	615.5	5.0	Tr.			
	746	<u>END OF HOLE.</u> Casing pulled out; red painted wooden post, bearing aluminium identification tag, set into the hole collar. * Etch tube dip determinations: - 45° (300'), - 44° (600'). J. André Carrier 84 10 17								

Falconbridge Ltd.

HOLE NO: 693-02 PAGE: 1 of 6

Drilled by: BRADLEY BROS. LIMITED

Property: GUIBORD BLOCK ; PN-693

Latitude: 7+50N

Longitude: 48+00E

Started: 84 08 17

Township: of GUIBORD ; CLAIM # 15475

Azimuth: 210°

Dip: -45°(collar), *

Ended: 84 08 20

Logged by: J. ANDRÉ CARRIER

Élévation: ?

Length: 764 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
0	58	NW casing								
0	60	AW casing								
60	764	AQ wireline core (excellent to fair core recovery; fair R.Q.D.) laid into 30 boxes.								
0	58	<u>OVERBURDEN</u> 0-5: boulders 5-58: clay								
58	165	<u>ANDESITE/DACITE</u> Chloritized; fractured; up to 10% carbonate (with calcite)-sutured, very locally often bleached along fractures. Locally rhyolite or very siliceous layers. A little magnetic here and there. Bedding: ~35° at 105, ~15° at 120. 07503: ~1/8% Py (fine-grained disseminated); con- trol; andesite/dacite; 5-10% carbonates (with calcite) mm. to cm. stringers stockwork. 07504: minor Py (fine-grained disseminated); 2/3 very siliceous (chert-like, fractured).	07503	69.0	74.0	5.0	Tr.			
			07504	98.0	100.7	2.7	0.002			

Falconbridge Ltd.

HOLE NO: 693-02

PAGE: 2 of 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		07505: minor Py; greenish andesite, fractured.	07505	100.7	104.9	4.2	Tr.			
		07506: ~1/8% Py (very fine-grained); very siliceous, light brownish grey (chert-like, fractured).	07506	104.9	106.9	2.0	Tr.			
		07507: minor Py; greenish grey fractured andesite.	07507	106.9	111.9	5.0	Tr.			
		07508: minor Py; light greenish grey fractured andesite/dacite.	07508	111.9	116.5	4.6	nil			
		07509: minor Py (fine-grained in cherty layer); fractured dacite, 20% very siliceous chert-like.	07509	116.5	121.0	4.5	Tr.			
		07510: ~1/4% Py (fine-grained disseminated & aggregates); andesite and dacite, bleached along fractures.	07510	160.0	165.0	5.0	Tr.			
165	209	<u>TRANSITION ZONE</u> Brecciated and sheared chloritic transition zone.								
209	340	<u>FAULT ZONE</u> Intensely chloritized & serpentized, also talcose; local heavy shearing (some gouge). Frequent minor Py, disseminated.								
		07511: >1/8% Py (very fine-grained disseminated & aggregate); chloritic greenish block, 3-5% calcite stringers & fillings, locally sheared.	07511	240.0	245.0	5.0	Tr.			

Falconbridge Ltd.

HOLE NO: 693-02

PAGE: 3 of 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
340	764	<p>07517: ~1/8% Py (fine-grained disseminated & small aggregates); chloritic, slightly talcose; < 1% carbonate stringers.</p> <p><u>ANDESITE/BASALT</u></p> <p>including some tuff bands (often Py-bearing); frequent blocky core, locally ruggy. 2-5% carbonate (with calcite) & little quartz stringers & fillings. Pea-size amygdulose here & there below 525.</p> <p>Weakly magnetic everywhere (very locally fairly magnetic).</p> <p>Approximately 3% red siliceous layers.</p> <p>Bedding (mostly red siliceous layers-contacts, some tuff laminations): 20°/A (346'), ~50° (350'), ~20° (357.5'), 30° (369'), 20° (371), 35° (477'), 30-50° (488' on Py-bearing thin layers), ~25° (597').</p> <p>(~523~595): locally well epidotized, also somewhat skarnized; frequently ruggy.</p> <p>(671.5-697.5): most of it little fractured, not so fine-grained, subvolcanic basic rock; 15°/A contacts.</p> <p>At 706, return water lost.</p> <p>07512: < 1/8% Py (disseminated mostly in stringers); andesite/dacite; 5% carbonate (with calcite) stringers.</p>	07517	304.0	309.0	5.0	Tr.			
			07512	346.0	350.7	4.7	Tr.			

Falconbridge Ltd.

HOLE NO: 693-02

PAGE: 4 of 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		07513: ~1% Py (fine-grained, disseminated); reddish & pinkish grey very siliceous, micro-breccia-like.	07513	350.7	355.0	4.3	Tr.			
		07514: ~1% Py (fine-grained, disseminated); reddish & pinkish grey very siliceous, micro-breccia-like.	07514	355.0	357.5	2.5	Tr.			
		07515: minor to traces of Py; fractured basalt/andesite; ~5% carbonates (with calcite) stringers.	07515	357.5	362.5	5.0	Tr.			
		07516: <1/8% Py (disseminated & aggregate); fractured basalt/andesite with 5-10% reddish bands and fragments.	07516	362.5	368.5	6.0	Tr.			
		07518: minor Py (fine-grained); reddish brown siliceous; ~5% quartz-calcite stringers.	07518	368.5	370.5	2.0	Tr.			
		07519: ~1/8% Py (fine-grained disseminated); greenish black basalt & greyish olive mudstone.	07519	370.5	375.5	5.0	0.002			
		07520: ~1/8% Py (fine-grained disseminated in bands); fractured dacite & mudstone; ~5% carbonate (with calcite) stringers & fillings.	07520	375.5	380.5	5.0	0.002			
		07521: <1/8% Py (fine-grained disseminated), mostly at 395; grey fractured andesite/dacite; ~5% carbonates (with calcite) stringers & fillings.	07521	390.5	395.5	5.0	Tr.			
		07522: minor Py; control; fractured greenish grey andesite; ~2% wuggy carbonates (with	07522	415.5	420.5	5.0	Tr.			

Falconbridge Ltd.

HOLE NO: 693-02

PAGE: 5 of 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		calcite) stringers & fillings; ~5% red portions (fragments or laminations?).								
		07523: ~1/4% Py (disseminated & laminations); greenish grey basalt/andesite, some mudstone or tuff admixture; 2-3% carbonate (+calcite) stringers & microfractures.	07523	460.0	465.0	5.0	Tr.			
		07524: < 1/8% Py (fine-grained mostly in laminations); basalt/andesite (with tuff).	07524	481.0	486.0	5.0	Tr.			
		07525: > 1/4% Py (disseminated in laminations & elsewhere); brecciated andesite & tuffaceous material (banding).	07525	486.0	491.0	5.0	Tr.			
		07526: > 1/4% Py (disseminated & in incipient stringers); dark greenish grey fractured basalt/andesite.	07526	491.0	496.0	5.0	Tr.			
		07527: traces of Py; control; epidotized basalt; ~10% skarnized portion; locally raggy.	07527	580.0	585.0	5.0	Tr.			
		07528: traces of Py; control; 40% basalt (fractured) & 60% subvolcanic basic rock (not so fine-grained).	07528	605.0	610.0	5.0	Tr.			
		07529: ~1/8% Py (disseminated & along laminations); basalt; 2% carbonate (with calcite) stringers & fillings.	07529	725.0	730.0	5.0	Tr.			
	764	<u>END OF HOLE.</u>								
		Casings pulled out; red painted wooden								

Falconbridge Ltd.

HOLE NO: 693-02

PAGE: 6 of 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
		<p><i>post, bearing aluminum identification tag, set into the hole collar.</i></p> <p><i>* Etch tube dip determinations: - 43° (300'), - 41° (600').</i></p> <p><i>J. André Carrier</i></p> <p><i>84 08 28</i></p>								

Falconbridge Ltd.

HOLE NO: 693-03 PAGE: 1 of 4

Drilled by: BRADLEY BROS. LIMITED
 Started: 84 08 22
 Ended: 84 08 26

Property: GUIBORD BLOCK; PN-693
 Township: of GUIBORD; CLAIM# 14651
 Logged by: J. ANDRÉ CARRIER

Latitude: 16+50 N
 Azimuth: 210°
 Élévation: ?

Longitude: 60+00 E
 Dip: -45°(collar), *
 Length: 762 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
0	115	NW casing								
0	122	AW casing								
122	762	AQ wireline core (very poor to fair core recovery; very poor to fair R.Q.D.) laid into 27 boxes.								
0	120	<u>OVER BURDEN</u> 0-50: sand 50-120: clay with some boulders.								
120	762	<u>CHLORITIZED VOLCANIC ROCKS & METASEDIMENTS</u> Blackish, thoroughly chloritized, blocky core (probably volcanic basic rocks originally); lower half of the intersection less thoroughly chloritized, less blocky core, showing several tinges of grey (probably abundant ferruginous metasediments originally). Magnetic everywhere except 493-588. Blackish: 120-380 & 618-662; Dark grey: 380~490, 585-618, 730-762; Not so dark grey: ~490~560, 662-730; Medium grey (with a greenish tinge): 560-585.								

Falconbridge Ltd.

HOLE NO: 693-03

PAGE: 2 of 4

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		<p>The rock is strongly chloritized (also serpentinized), frequently showing slip surfaces (mirrors), locally sheared, often brecciated. Quite blocky core, with local grinding.</p> <p>1/2 to 2% carbonates (with calcite) stringers but the rock mass does not fizz with cold HCl.</p> <p>No sulfides to speak of (except minor Py on slips near 535).</p> <p>Lost core: 139-141, 184-185, 244-246, 246.5-249, 249.2-253, 253.4-254, 254-254.6, 255-256.5, 259-262, 262.5-265, 269.5-270, 274-276, 278-280, 281.5-283.5, 285-286, 287-288, 296-297, 301.5-302.5, 306.5-307, 307.5-308.5, 309.5-311, 326-328, 330-338.5, 342-343, 346-347.5.</p> <p>(635-650): black, harder to scratch (silica-rich?); on both sides of the intersection, brecciated country rock sutured with carbonate stringers.</p> <p>(660-705): mm. laminated black & grey with abundance of cross-bedding like textures (might be of other origin or are combined with micro-slumping).</p> <p>07540: Control; no visible sulfides; greenish chloritized mafic volcanic rock; fairly</p>	07540	288.0	293.0	5.0	Tr.			

Falconbridge Ltd.

HOLE NO: 693-03

PAGE: 3 of 4

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		magnetic; ~1.5% greenish carbonates (with calcite) mm. to cm. stringers; several slip surfaces, serpentine-looking.								
		07541: Control; no visible sulfides; dark grey chloritized volcanic rock; fairly magnetic; several slip surfaces (often slickensided), serpentine looking.	07541	385.0	390.0	5.0	Tr.			
		07542: Control; no visible sulfides; blackish grey chloritized, not so fine-grained basic volcanic rock; non magnetic; several slip surfaces, fractured and partly sutured; ~1% white carbonates (with calcite) stringers & opening fillings.	07542	525.0	530.0	5.0	0.002			
		07543: Control; no visible sulfides; medium dark metasediments, generally mm. laminated & cross-bedded; weakly magnetic; one foot well fractured & sutured with 1% white carbonates (with calcite) mm. stringers.	07543	665.0	670.0	5.0	Tr.			
	762	<u>END OF HOLE.</u>								
		Casings pulled out; red painted wooden post, bearing aluminium identification tag, set								

Falconbridge Ltd.

HOLE NO: 693-03 PAGE: 4 of 4

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
		<p><i>into the hole collar.</i></p> <p><i>* Etch tube dip determinations:</i></p> <p><i>-43.5° (300'), -43.5° (600').</i></p> <p><i>J. André Carrier</i></p> <p><i>84 09 05</i></p>								

Falconbridge Ltd.

HOLE NO: 693-04

PAGE: 1 of 7

Drilled by: BRADLEY BROS. LIMITED

Property: GUIBORD BLOCK; PN-693

Latitude: 4+50N

Longitude: 60+00E

Started: 84 08 23

Township: of GUIBORD; CLAIM #15476

Azimuth: 210°

Dip: -45°(collar), *

Ended: 84 08 29

Logged by: J. ANDRÉ CARRIER

Élévation: ?

Length: 873 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
0	120	NW casing								
0	130	AW casing								
130	873	AQ wireline core (poor to excellent core recs. very; very poor to fair R.Q.D.) laid into boxes.								
0	120	<u>OVER BURDEN</u> Soil, sand & gravel; more boulders at depth.								
120	528.5	<u>MAGNETIC CHLORITIZED GREENSTONE</u> Blackish to medium gray, fine-grained (locally 1 mm & microgabbro-like), relatively homogeneous, chloritized, locally seems serpentinized. Fairly magnetic almost everywhere. Probably former metasediments, and/or basic igneous rocks. Carbonated (with calcite) in mm. and hairline white stringers (sometimes also in the mass of lighter color rock); whitish carbonate patches up to 10% of the rock locally. Minor to ~1% fine-grained Py cubes in some brecciated gony portions.								

Falconbridge Ltd.

HOLE NO: 693-04 PAGE: 2 of 7

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		<p>Local faint foliation: ~45°; some decoloration near some carbonate stringers.</p> <p>Lost core: 149-150.5, 156-158.5, 163-164, 165-175, 180-181.</p> <p>(130-175): SHEAR ZONE: brecciated, blocky & lost core, fault-gorge at many places.</p> <p>(175-201.5): brecciated, some local gorge.</p> <p>(355-390): >50% not so fine-grained portions (microgabbro-like).</p> <p>(AT 48 & 499): 10-15% CA carbonate-sutured slips in dm. breccia.</p>								
		07544: Control; ~1/4% Py (fine-grained cubes in gony portions); brecciated chloritized metasediments, ~3% carbonate fragments, stringers & segregations & opening fillings; somewhat to fairly magnetic all through.	07544	151.0	156.0	5.0	Tr.			
		07545: Control; no visible sulfides; greenish black; 50% fine to medium-grained gabbro-like portions; lighter color grains are slightly carbonate-bearing	07545	355.0	360.0	5.0	Tr.			
		07546: Control; minor Py in brecciated & clear portions; blackish chloritized slip-bearing rock; 2-3% carbonates (with calcite)	07546	495.0	500.0	5.0	nil			

Falconbridge Ltd.

HOLE NO: 693-04

PAGE: 3 of 7

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz/ton			
528.5	535.5	<p>nearly all in and adjacent to shear located at 499 (10-15°C/A):</p> <p><u>SHEAR ZONE</u></p> <p>Upper contact gradual in brecciated rock; lower contact 18°C/A very neat.</p> <p>2/3 brecciated chloritized rock, some gouge at several places; one foot of white calcite from 533 to 534 (10-15°C/A).</p>								
		07547: ~1% Py cubes (mostly near 532 and at 535.0 in gony brecciated portions)	07547	530.5	535.5	5.0	Tr.			
535.5	594.5	<p><u>MAGNETIC CHLORITIZED GREENSTONE</u></p> <p>Blackish, fine-grained, chloritized, magnetic, fractured; mm. carbonate stringers - sutured (up to 2% locally including patches), locally a little brecciated; minor to some Py (more Py in first half of intersection) in fractures and carbonate stringers.</p>								
		07548: ~1/4% Py (deformed cubes & flat scales in and adjacent to carbonate stringers & slips); ~1/2% carbonates (with calcite) mm. stringers.	07548	545.0	550.0	5.0	nil			
		07549: idem #07548 (except ~1% carbonates)	07549	550.0	555.0	5.0	Tr.			

Falconbridge Ltd.

HOLE NO: 693-04

PAGE: 4 of 7

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
594.5	724.5	<p>07550: ~1/4% Py (deformed cubes & flat scales in and adjacent to carbonate stringers & slips); not so fine-grained rock; ~1% carbonates (with calcite) mm. stringers.</p> <p><u>SHEAR & BRECCIA ZONE</u></p> <p>mm. to dm. fragmented breccia, gongy at several places through the intersection. Some Py (mostly in gongy portions, fractures & carbonate sutures).</p> <p>Blackish to dark grey chloritized rock, fine-grained, easy to scratch; 1 to 10% (average 2%) carbonate (with calcite) stringers & opening fillings; also occasional carbonate-rich light color patch & zone up to 6" long.</p> <p>(606.5-626.5): <u>MAIN SHEAR</u>: upper contact neat 20°C/A, lower contact mostly brecciated (suggestion of 20°C/A). Over 10% light to medium grey gongy material; over 50% < cm. fragments; usually 0~25°C/A average shearing plane.</p> <p>(594.5-595.5, 651.5-653.2, 679, 685-686, 689-690, 709.5-712, 720-721, 724-724.5): Quite gongy.</p>	07550	585.0	590.0	5.0	Tr.			

Falconbridge Ltd.

HOLE NO: 693-04

PAGE: 5 of 7

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
		07551: ~1/4% Py (cubes in & near carbonate stringers & fillings); ~7% carbonates (with calcite) segregations; the rock is chloritized, fractured, not much schistose.	07551	601.5	606.5	5.0	Tr.			
		07552: ~1/8% Py (fine cubes in gongy material); ~2% carbonates (with calcite) stringers & fillings; 3 cm to < mm. fragments all locked in gongy matrix.	07552	606.5	611.5	5.0	Tr.			
		07553: ~1/4% Py (cubes in gongy material); most fragments mm. to cm. & locked in gongy material; ~2% carbonates (with calcite) fillings.	07553	611.5	616.5	5.0	Tr.			
		07554: >1/8% Py (cubes in gongy material); mostly 3 cm. to < cm. fragments (also mm. & gongy) cemented in some gongy (more gongy near ends of intersection).	07554	616.5	621.5	5.0	Tr.			
		07555: ~1/4% Py (cubes in gongy material); 6% carbonates (with calcite) stringers & fillings (half of these in one stringer subparallel to GA); 3 cm. to > mm. fragments locked in gongy material.	07555	621.5	626.5	5.0	Tr.			
		07556: Traces of Py; rock is fractured, chloritized, fine-grained; several slip surfaces; 1-2% carbonates (with calcite) fillings & stringers.	07556	626.5	631.5	5.0	Tr.			

Falconbridge Ltd.

HOLE NO: 693-04

PAGE: 6 of 7

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Av oz./ton			
724.5	873	<p>07557: < 1/8% Py (cubes), mostly in lowest 6"; < 1/8 dm. to mm. fragments with some gony matrix, more gony in first foot.</p> <p><u>MAGNETIC CHLORITIZED GREENSTONE</u></p> <p>Somewhat magnetic in first and last thirds, fairly magnetic in the center. Quite homogeneous, fine-grained, finely fractured, dark to medium gray rock (could be volcanic or metasedimentary). Fractures often sutured by carbonates (with calcite).</p> <p>Possible bedding: 25°/A at 757, ~40° at 861.</p> <p>Minor to some Py disseminated here & there (often near carbonate stringers & along fractures).</p>	07557	685.0	690.0	5.0	Tr.			
		<p>07558: < 1/8% Py (dust mostly located at 757"); dark to medium gray, somewhat magnetic; fractured & carbonate-sutured; ~6% carbonates (with calcite) stringers & opening fillings.</p>	07558	755.0	760.0	5.0	Tr.			
		<p>07559: < 1/8% Py (fine dust near fractured chert-like laminations; closely fractured and sutured by ~2% white carbonates (with calcite), 3" banded quartz-carbonates - some chlorite veinlet at 782.</p>	07559	781.0	786.0	5.0	Tr.			

Falconbridge Ltd.

HOLE NO: 693-04

PAGE: 7 of 7

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
	873	<p>07560: ~1/8% Py (following and adjacent to some stringers); rock locally very siliceous, fine-grained, finely fractured, dark grey; ~2-3% carbonates (with calcite) stringers. Faintly to somewhat magnetic.</p> <p><u>END OF HOLE.</u></p> <p>Casing pulled out; red painted wooden post, bearing aluminum identification tag, set into the hole collar.</p> <p>* Etch tube dip determinations: -42.5°(300'), -42.5°(600'), -42.5°(873').</p> <p>J. André Carrier 84 09 05</p>	07560	836.0	841.0	5.0	Tr.			

AU GEOCHEMISTRY

Diamond Drill Hole no: 693-05

Township: GUIBORD

Log Summary		Geochemistry Sample				
Location (m) From To		Sample no.	Location (ft.) From To		Au (ppb)	Remarks
		693-05-01	123	126	<1	
			138	143		
		02	126	138	<1	
		03	143	144	1	
		04	144	170	2	
		05	170	217	1	
		06	217	245	1	
		07	245	254	2	
		08	254	285.3	<1	
		09	285.3	287.5	<1	
		693-05-10	287.5	310.5	<1	
		11	310.5	313.0	<1	blackish metasedi-
			314.7	323.0		ments (locally 1%
			326.0	334.0		pyrite)
		12	313.0	314.7	<1	
		13	323.0	326.0	1	Coarse Py cu bes in medium-
		14	334.	366	<1	grained metasediments
		15	366	430	<1	
		16	430	478	<1	
		17	478	497	<1	
		18	497	579	1	
		19	579	595	1	
		693-05-20	595	608.5	<1	
		21	608.5	621	<1	
		22	621	696	1	
		23	696	713	2	
		24	713	757.5	<1	
		25	757.5	767.5	<1	
		693-05-26	767.5	776	3	

Falconbridge Ltd.

HOLE NO: 693-05

PAGE: 1 of 6

Drilled by: Bradley Bros. Limited
 Started: 84 09 05
 Ended: 84 09 10

Property: GUIBORD BLOCK; PN-693
 Township: of Guibord; claim #15484
 Logged by: J. André Carrier

Latitude: 25+00 N
 Azimuth: 0°
 Élévation: ?

Longitude: 78+00 E
 Dip: -45°(collar), *
 Length: 776 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
0	65	NW casing								
0	122	AW casing								
122	776	AQ wireline core (excellent to good core recovery, good to fair (locally poor) R.Q.D.) laid into 27 boxes.								
0	118	<u>OVERBURDEN</u> 0-50: mostly sand 50-118: gravel and boulders								
118	170	<u>CHLORITIZED MAFIC TO ULTRAMAFIC ROCKS</u> Blackish to medium bluish grey; chloritized & serpentized; magnetic. Bluish has talcose stringers. Gony near 139; a little lost core here & there. Minor Py locally. 143-144: dark brownish grey porphyritic felsite, holding 1/2-1% Py.								
170	246	<u>ANDESITIC LAVAS (some tuffe?)</u> Dark to medium greenish grey; in places, lighter green fractured pillow borders. Relatively								

Falconbridge Ltd.

HOLE NO: 693-05 PAGE: 2 of 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU oz./ton			
246	310	<p>non magnetic; not very clear cut contacts. Traces to minor Py. Artesian water seam at 209.</p> <p><u>ULTRABASIC ROCKS (some tuffs)</u></p> <p>Blackish to dark grey, chloritized (somewhat serpentized & talcose) basic to ultra basic rocks mixed with some basic tuffs. Bedding: ~60°/A at 249. Bluish grey tinge holds frequently, mm. to cm. talc slips. 285.3-287.5: pale grey medium to coarse-granulated portion. Very locally >1% Py (average <1/8% overall); 2-4% mm. to cm. carbonates stringers.</p>								
310	366	<p><u>BASIC TUFFS (some metasediments)</u></p> <p>Medium grey to dark greenish grey to blackish mm. to m. layers; usually chloritized (possibly somewhat serpentized). Magnetic. Often holding minor Py cubes (mostly 310-334). ~1/2-3% carbonates stringers & segregations. Bedding: ~50°/A (316), 40-50° (336); somewhat schistose ~45° near 333. 07588: ~1/4% Py (~mm. cubes).</p>	07588	318.0	323.0	5.0	Tr.			

Falconbridge Ltd.

HOLE NO: 693-05

PAGE: 3 of 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		07589: ~4% Py (fine to coarse-grained cubes); held in medium-grained pale to dark grey portion.	07589	323.0	326.0	3.0	Tr.			
		07590: ~1/4% Py (~mm. cubes).	07590	326.0	331.0	5.0	NIL			
366	485	<u>ULTRABASIC TO BASIC ROCKS</u> Dark bluish grey, chloritized & serpentinized, talcose on slips; darker at depth. Usually fairly magnetic. Minor Py in places. 432-439 blackish & little talcose.								
		07591: Contal; ~1/4% Py (fine-grained to mm. cubes) in homogeneous blackish rock; tr. calcite.	07591	480.0	485.0	5.0	Tr.			
485	497.0	<u>FELDSPAR PORPHYRY</u> Medium grey, 20% fine to medium-grained, euhedral to subhedral whitish feldspar phenocrysts in aphanitic groundmass. Non magnetic; relatively fresh & massive, no calcite, very slight hematization along some minute fractures. Some fine-grained Py (1% locally).								
		07592: ~1/4% Py (fine-grained disseminated).	07592	485.0	489.0	4.0	NIL			
		07593: ~1% Py (fine-grained to mm. cubes dis- seminated).	07593	489.0	493.0	4.0	NIL			
		07594: ~1/4% Py (fine-grained cubes dissemina- ted).	07594	493.0	497.0	4.0	NIL			

Falconbridge Ltd.

HOLE NO. 693-05

PAGE: 4 of 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
497.0	504.5	<u>BLACK GABBRO</u> Blackish, non magnetic, some fine-grained Py. 07595: Control; minor Py; 2% mm. carbonates stringers; quite homogeneous blackish.	07595	497.0	502.0	5.0	Tr.			
504.5	608.5	<u>BASIC TO ULTRABASIC ROCKS</u> 50% blackish; 50% medium to dark bluish grey; chloritized & serpentized; magnetic; minor Py. Brecciated & sheared at several places (especially 582-590). Some Py 565-574.								
608.5	621.5	<u>FELDSPAR PORPHYRY</u> Similar 485-497 (except: 40% phenocrysts, some coarse-grained; traces of calcite in upper half developing pinkish hematite alteration along fractures over 50% of the core). 30°/A lower contact (idem for upper contact, but broken-up core). Some mm. vugs in uppermost feet. 07596: ~ 1/2% Py (fine-grained disseminated); 50% dark grey, 50% discolored pinkish, 1/3 of the core is 3% vuggy. 07597: < 1/4% Py (fine-grained disseminated); mostly dark grey, 1/5 discolored pinkish grey, some hematization in coarse phenocrysts.	07596 07597	608.5 613.5	613.5 618.5	5.0 5.0	NIL Tr.			

Falconbridge Ltd.

HOLE NO: 693-05

PAGE: 5 of 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
621.5	696	<p>07598: ~1/2% Py (fine-grained disseminated); mostly dark grey, last foot showing incipient pinkish grey.</p> <p><u>BASIC TO ULTRABASIC ROCKS</u></p> <p>Dark to medium greys (bluish tinges); lighter colored in lower half. Chloritized & serpentinized; rather fine-grained; magnetic.</p> <p>Up to 5% carbonate talcose stringers & veinlets in places.</p> <p>Gradual lower contact.</p> <p>Minor Py locally.</p>	07598	618.5	621.5	3.0	NIL			
696	776	<p><u>ANDESITIC LAVAS (some tuffs?)</u></p> <p>Medium greenish grey; holding up to 15% greenish white (fractured) streaks, spots & patches (and curved rims of pillows?) mostly from 713 to 755.</p> <p>Non magnetic.</p> <p>Bedding: ~75°/A at 710, ~60°/A at 739.</p> <p>(757.5-767.3): FELDSPAR PORPHYRY: fine to medium-grained whitish feldspar phenocr. (mostly subhedral to anhedral), dark grey groundmass (similar to 485-497); very slight hematization in minute cracks of phenocr. Non magnetic.</p> <p>55°/A lower contact, 70°/A upper contact.</p>								

Falconbridge Ltd.

HOLE NO: 693-05

PAGE: 6 of 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au oz./ton			
		07599: < 1/4 % Py (fine-grained disseminated).	07599	757.5	762.5	5.0	Tr.			
		07600: minor to traces of Py (fine-grained disseminated).	07600	762.5	767.3	4.8	Tr.			
	776	<u>END OF HOLE.</u>								
		Seam with artesian water at 209'.								
		Casings pulled out; red painted wooden post, bearing aluminum identification tag, set into the hole collar.								
		* Etch tube dip determinations: - 42.5° (300'), - 42° (600').								
		J. André Carrier								
		84 09 28								

1

GENERAL COMPILATION LEGEND

LITHOLOGY, PETROGRAPHY & STRUCTURE

Archean Volcanic Rocks

V	Unsubdivided volcanic rocks
V1	Felsic or intermediate volcanic rocks
V2	Rhyolite
V3	Trachyte
V4	Dacite
V5	Intermediate or mafic volcanic rocks
V6	Andesite
V7	Basalt
V8	Unsubdivided pyroclastic rocks
V9	Tuff
V10	Agglomerate
V13	Ultramafic volcanic rocks

Archean Sedimentary rocks

S	Unsubdivided sedimentary rocks
S1	Conglomerate
S2	Arkose
S3	Greywacke
S4	Argillite, shale, slate, phyllite
S5	Quartzite
S6	Iron formation
S7	Limestone and other carbonate rocks

Archean Iron Formations

- F1 Unsubdivided iron formations
- F2 Sulphide iron formation
- F3 Oxide iron formation
- F4 Carbonate iron formation

Proterozoic Sedimentary Rocks

- P Unsubdivided sedimentary rocks
- P1 Conglomerate
- P2 Arkose
- P3 Greywacke
- P4 Quartzite and sandstone
- P5 Argillite, shale, slate, phyllite
- P6 Iron formation
- P7 Dolomite and other carbonate rocks
- P8 Tillite

Paleozoic Sedimentary Rocks

- R1 Limestone

Metamorphic Rocks

- M Unsubdivided metamorphic rocks
- M1 Schist
- M3 Hybrid rocks
- M4 Igneous breccia

M5	Migmatite
M6	Injection gneiss
M7	Gneiss
M8	Amphibolite
M9	Granulite
M10	Mylonite
M11	Quartzite
M12	Marble

Intrusive Rocks

1	Unsubdivided felsic intrusive rocks
1S	Syenite
1G	Granite
1A	Quartz monzonite (Adamellite)
1M	Monzonite
1D	Granodiorite
1P	Pegmatite
1B	Albite
1X	Aplite
1Z	Granophyre
1R	Intrusive felsite and rhyolite
2	Unsubdivided intermediate intrusive rocks
2T	Quartz diorite (tonalite)
2D	Diorite
2L	Intermediate lamprophyre
3	Unsubdivided mafic intrusive rocks
3G	Gabbro
3N	Norite
3R	Anorthosite

- 3L Mafic or unsubdivided lamprophyre
- 3D Diabase*
- 4 Ultramafic intrusive rocks
- 4P Peridotite
- 4H Hornblendite
- 4S Serpentinite
- 4D Dunite
- 4Y Pyroxenite
- 4L Ultramafic lamprophyre

*In some cases, used as follow:

First-generation diabase

Second-generation diabase

ROCK MINERALS SYMBOLS

- | | | | |
|---|-------------------------|---|--------------------------|
| a | Fuchsite | o | Potash feldspar |
| b | Biotite | p | Plagioclase |
| c | Chlorite | q | Quartz |
| d | Disthene | r | Chloritoid |
| e | Epidote | s | Staurolite |
| f | Feldspar (undetermined) | t | Tremolite-actinolite |
| g | Garnet | u | Amphibole (undetermined) |
| h | Hornblende | v | **vein of |
| i | Talc | w | Tourmaline |
| j | Carbonate | x | Sillimanite |
| k | Sericite-paragonite | y | Pyroxene |
| m | Muscovite | z | Zeolite |
| n | Nepheline | | |

**used in conjunction with another rock mineral symbol (example:
: quartz vein)

COMPOSITION, ORIGIN & ALTERATION SYMBOLS

Composition

- α Felsic
- β Mafic
- γ Ultramafic

Origin

- δ Sedimentary
- ν Volcanic
- ψ Intrusive

Alteration

- | | |
|---------------------|---------------------------|
| ε Epidotized | ξ Hornfels alteration |
| ζ Skarn alteration | π Pyritized |
| η Carbonatized | σ Silicified |
| θ Porphyritized | τ Undetermined alteration |
| κ Potash alteration | φ Chloritized |
| λ Sericitized | χ Serpentinized |
| μ Albitized | ω Amphibolitized |
| ρ Hematized | ι Tolcose |

PETROGRAPHIC STRUCTURES & TEXTURES SYMBOLS

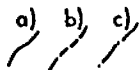
- ▣ Porphyry (over 50% phenocrysts)
- ◻ Porphyritic (10 to 50% phenocrysts)
- * Variolitic, Spherulitic
- ⊖ Pillowed
- ⊙ Amygdaloidal
- ✱ Spinifex
- ⊥ Ribbed
- ‡ Sheared
- // Foliated
- Laminated
- ⋯ Turbidites
- △ Brecciated
- ▲ Tectonic breccia
- △ Intrusive breccia
- ▲ Pyroclastic breccia
- △ Explosive breccia
- △ Flow breccia
- △ Hyaloclastite

STRUCTURE SYMBOLS

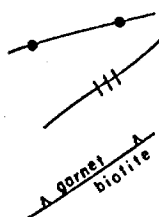
Data Collection



OUTCROPS: a) isolated, b) area of outcrops



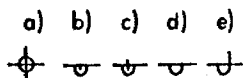
GEOLOGICAL CONTACTS: a) known, b) inferred or probable, c) from geophysical surveys (AIR-GROUND)



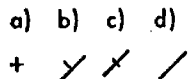
FLOW CONTACT

LINEAMENT (from photo-interpretation)

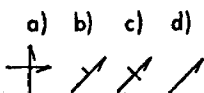
METAMORPHIC ISOGRAD: the summit of the triangles shows the direction of increasing metamorphic grade. Index minerals are shown on their side of the isograd



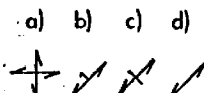
STRATIFICATION (TOP KNOWN): a) horizontal, b) inclined, c) vertical, d) dip unknown, e) overturned



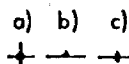
STRATIFICATION (TOP UNKNOWN): a) horizontal, b) inclined, c) vertical, d) dip unknown



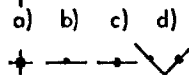
SCHISTOSITY OR CLEAVAGE OR FOLIATION (S1 plane): a) horizontal, b) inclined, c) vertical, d) dip unknown



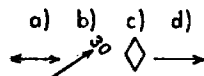
SCHISTOSITY OR CLEAVAGE OR FOLIATION (S2 plane): a) horizontal, b) inclined, c) vertical, d) dip unknown



GNEISSOSITY: a) horizontal, b) inclined, c) vertical

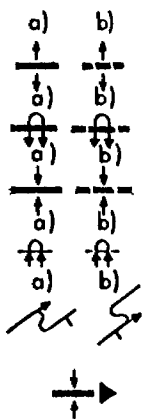


JOINTING: a) horizontal, b) inclined, c) vertical, d) multiple systems



LINEATION: a) horizontal, b) inclined, c) vertical, d) plunge unknown

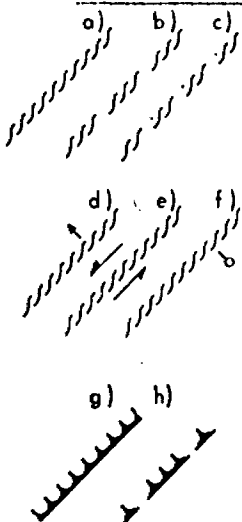
Folds



ANTIFORMS: a) axial plane known, b) inferred
 OVERTURNED ANTIFORMS: a) axial plane known, b) inferred
 SYNFORMS: a) axial plane known, b) inferred
 OVERTURNED SYNFORMS: a) axial plane known, b) inferred
 DRAG FOLDS: a) right-handed, b) left-handed: (used with or without plunge and dip)


FOLD AXIS WITH PLUNGE


Faults & Shear Zones

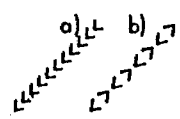


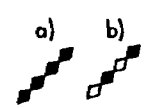
a) known, b) assumed, c) from geophysical surveys,
 d) with dip, e) with displacement direction, f) with throw (the full circle being shown on the downthrown side),
 g) thrust fault (the sharp ends of the symbol being on the overlying block), h) assumed thrust fault

GEOMORPHOLOGY SYMBOLS

a) b)
 Glacial strial: a) ice direction known, b) unknown

 Frontal moraine

a) b)
 Esker: a) flowing direction known, b) unknown

a) b)
 Lake or sea transgression limit: a) known, b) inferred

GEOPHYSICAL ANOMALIES SYMBOLS

MAGNETOMETRY (high values axes):

- X-AIR-X- a) airborne survey,
- X-GR-X- b) ground survey

-▲-SP-▲- SELF-POTENTIAL

RESISTIVITY:








- ▲-HR-▲- a) high values axis,
- ▲-LR-▲- b) low values axis

— IP — INDUCED POLARIZATION (high values axis)

AIRBORNE ELECTROMAGNETOMETRY:

- TRR-● a) TURAIR,
- RPE-● b) radiophase, E-phase
- CEM-● c) conventional systems
- AFG-● d) AFMAG,
- MEM-● e) multifrequency systems (input excluded)
- ┌
├ CEM
└
 f) reported anomaly width; survey direction shown by the dotted line

INPUT SYSTEM AIRBORNE ELECTROMAGNETOMETRY:

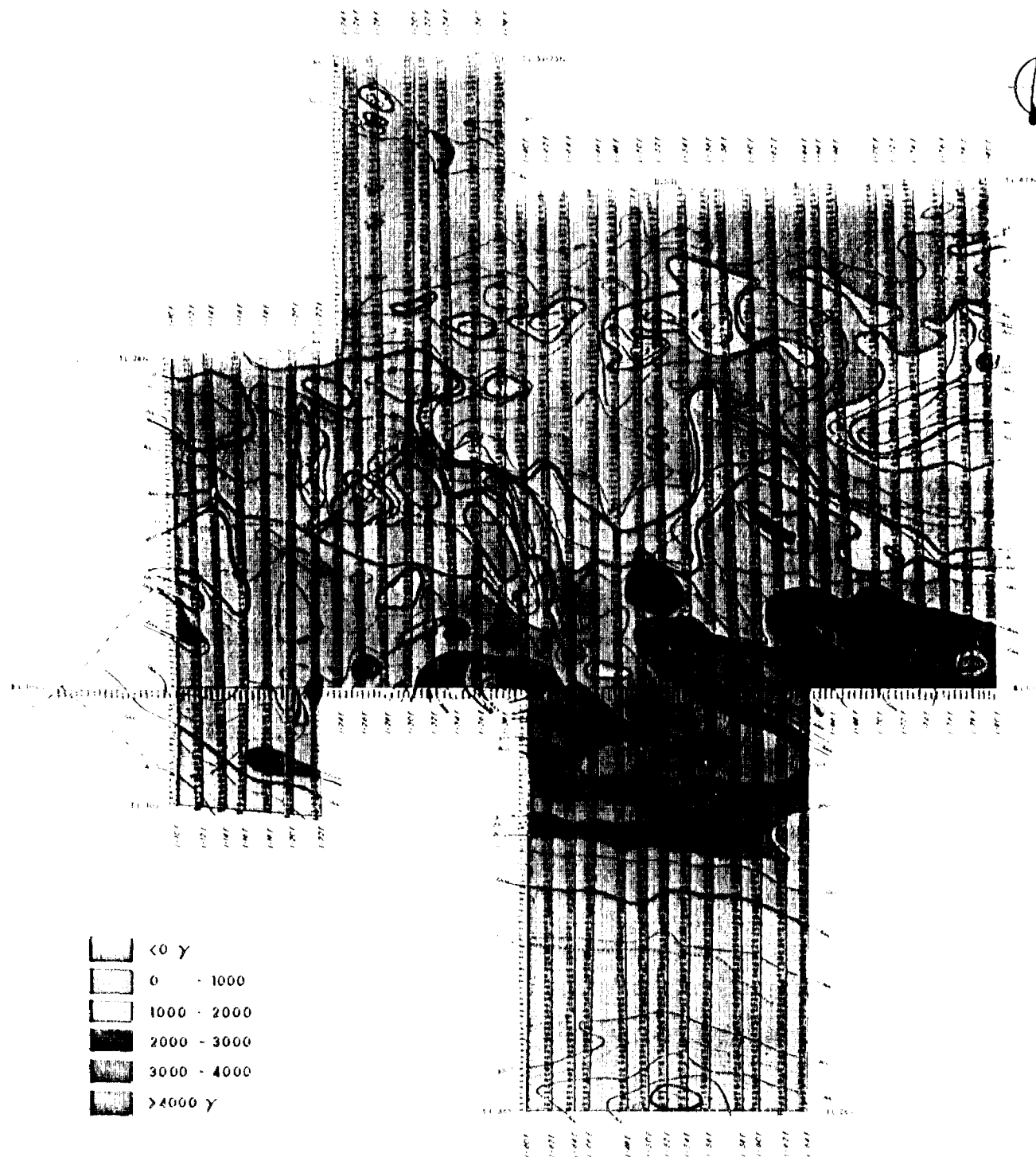
- a)  a) 2-channel (with thickness-conductivity product, mhos),
- b)  b) 3-channel,
- c)  c) 4-channel,
- d)  d) 5-channel,
- e)  e) 6-channel,
- f)  f) coinciding magnetic anomaly,
- g)  g) adjacent magnetic anomaly

GROUND ELECTROMAGNETOMETRY:

- HEM-○ a) horizontal-loop systems (with thickness-conductivity product, mhos)
- VEM-○ b) vertical-loop systems,
- TRM-○ c) TURAM systems,
- VLF-○ d) very low frequency systems

GRAVIMETRY:

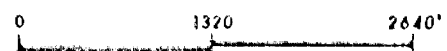
- HG — a) gravity high,
- LG — b) gravity low



FALCONBRIDGE LTD
GARRISON CREEK OPTION - ONTARIO
GUBBORD TWP. GRID
PN - 693

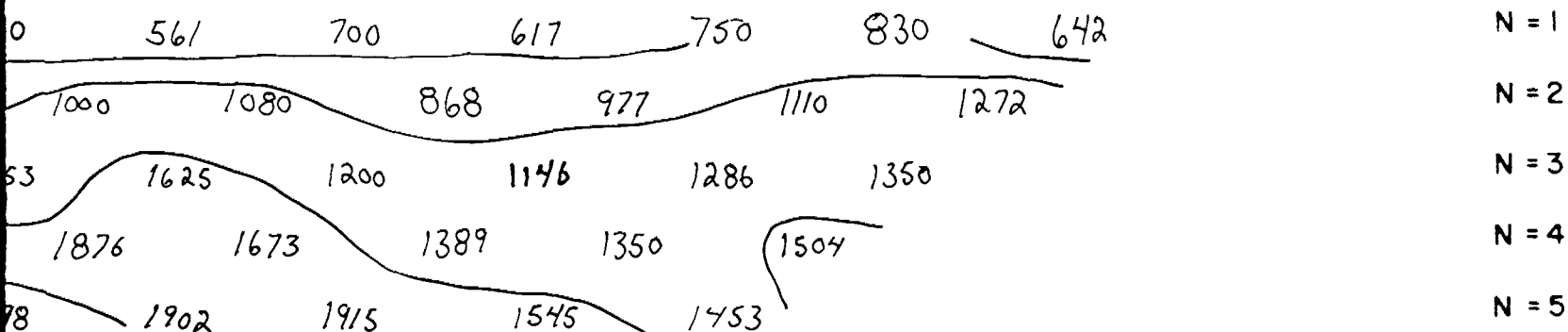
MAG SURVEY

1/15640

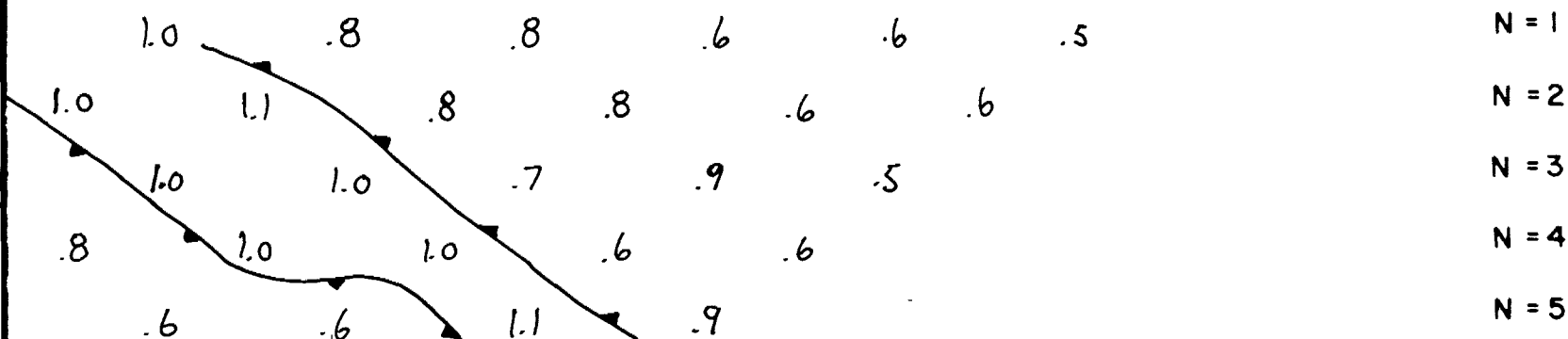


139N 142N 145N 148N 151N 154N 157N

RESISTIVITY (APP) IN OHM FEET

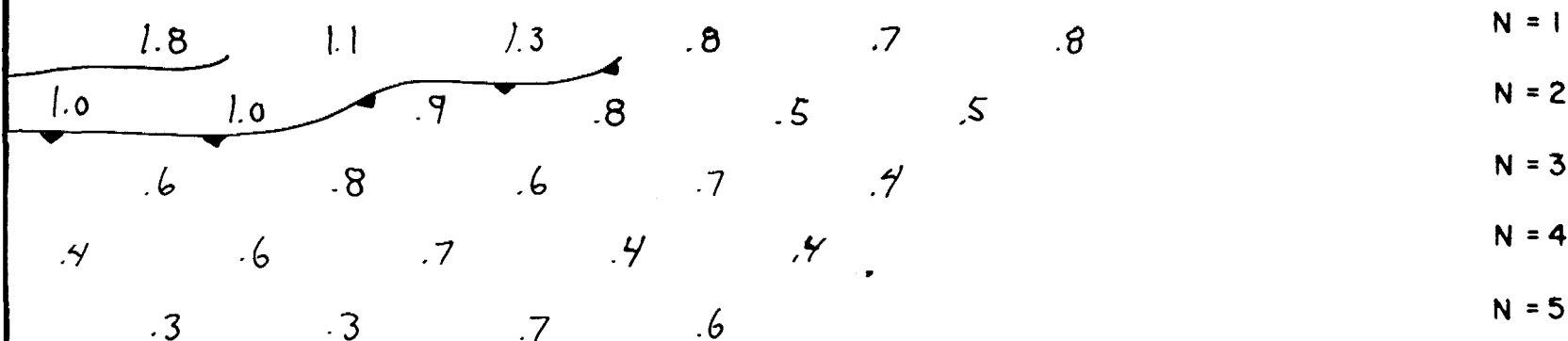


FREQUENCY EFFECT (APP) IN %



139N 142N 145N 148N 151N 154N 157N

METAL FACTOR (APP)



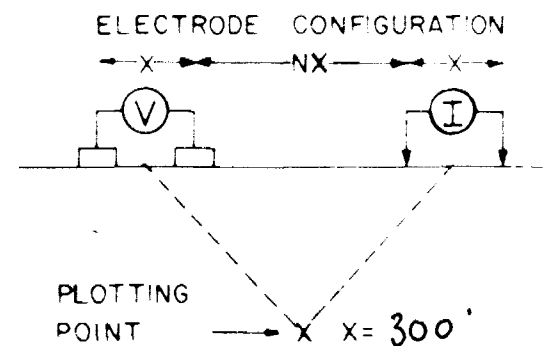
63.4487

COMPANY: FALCON BRIDGE LTD.

PROPERTY: MICHAUD BLOCK PN 622G

PERRY LAKE MATHESON ONTARIO

LINE NO - 242 E



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 IPT-1

CONTRACTOR : REMY BELANGER ENRG.

DATE SURVEYED

APPROVED

August - 20 - 1984

OPERATOR GUY GELINAS

DATE _____

INDUCED POLARIZATION AND RESISTIVITY SURVEY

118N 121N 124N 127N 130N 133N 136N 139N 142N 145N 148N

	542	507	497	520	450	530	561	700	617	750
980	930	964	874	720	764	1000	1080	868	977	
	1473	1470	1353	1004	1065	1253	1625	1200	1146	1286
	1860	1887	1525	1395	1616	1876	1673	1389	1350	
		2307	1447	2552	2067	2198	1902	1915	1545	1453

	.5	.3	.2	.3	1.1	1.0	1.0	.8	.8	.6
.7	.6	.3	.2	.9	.8	1.0	1.1	.8	.8	
	.7	.3	.3	.8	.8	.8	1.0	1.0	.7	.9
	.5	.3	.9	.8	.5	.8	1.0	1.0	.6	
		.5	.3	.9	.5	.5	.6	.6	1.1	.9

118N 121N 124N 127N 130N 133N 136N 139N 142N 145N 148N

	.9	.6	.4	.6	2.4	1.9	1.8	1.1	1.3	.8
.7	.7	.3	.2	1.3	1.1	1.0	1.0	.9	.8	
	.5	.2	.2	.8	.8	.6	.6	.8	.6	.7
		.3	.2	.6	.6	.3	.4	.6	.7	.4
		.2	.2	.4	.2	.2	.3	.3	.7	.6

128N

130N

132N

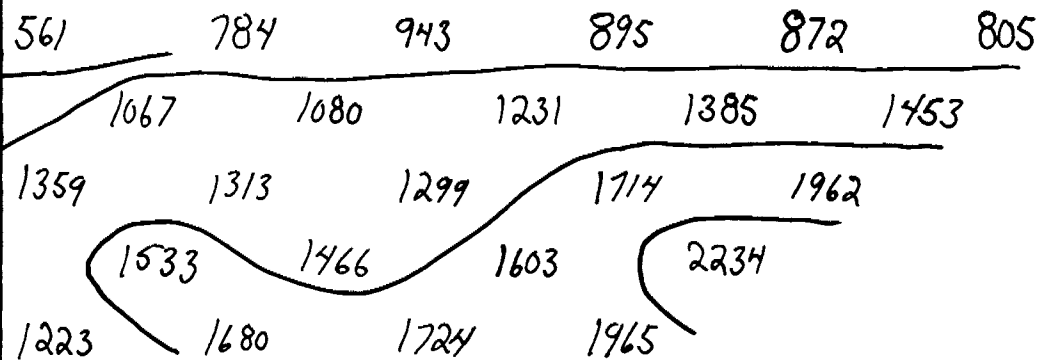
134N

136N

138N

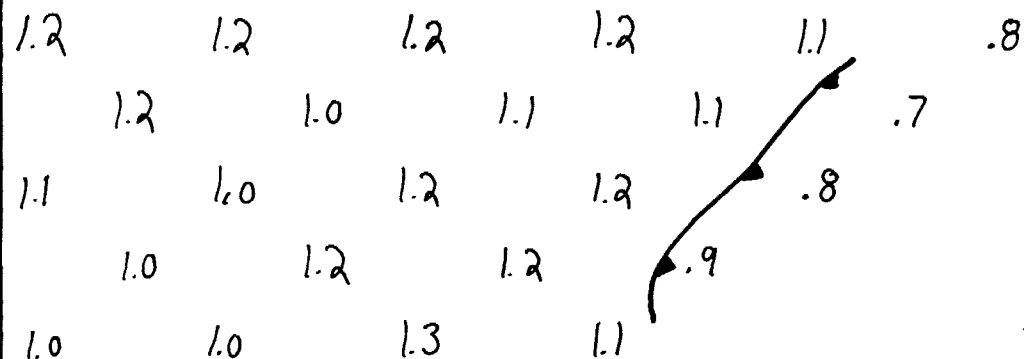
140N

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

128N

130N

132N

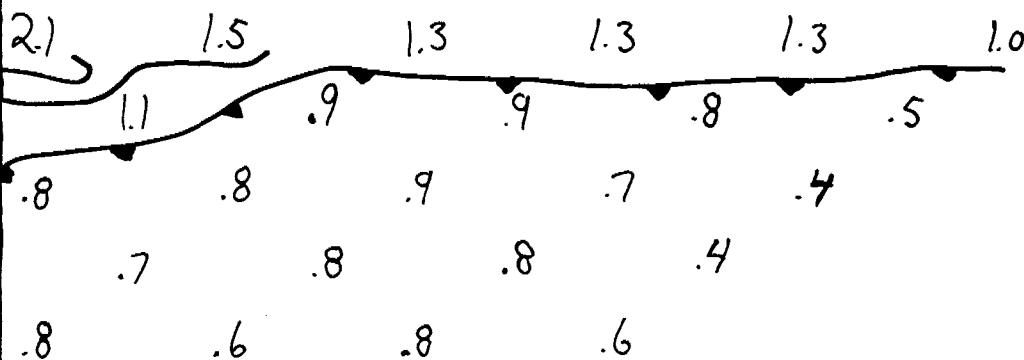
134N

136N

138N

140N

METAL FACTOR (APP)



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

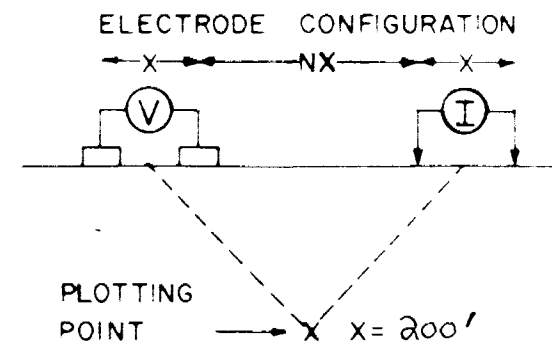
ROAD

COMPANY: FALCONBRIDGE LTD

PROPERTY: Michaud Block Pn 620

PERRY LAKE MATHESON ONTARIO

LINE NO. - 288E



63.4487

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 IPT-1

CONTRACTOR : REMY BELANGER ENRG.

DATE SURVEYED:

APPROVED

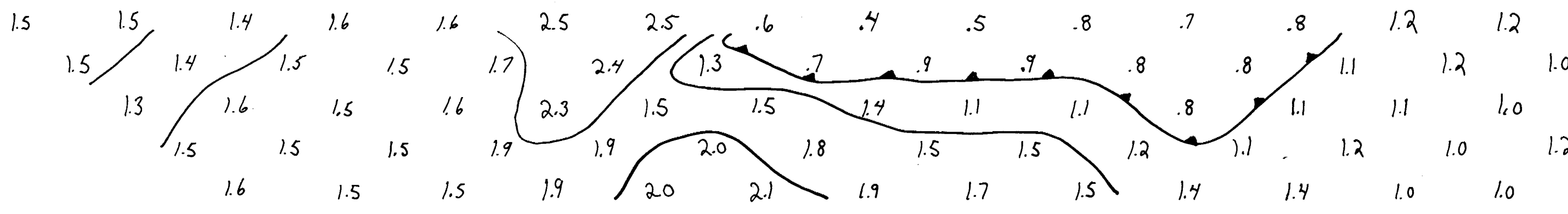
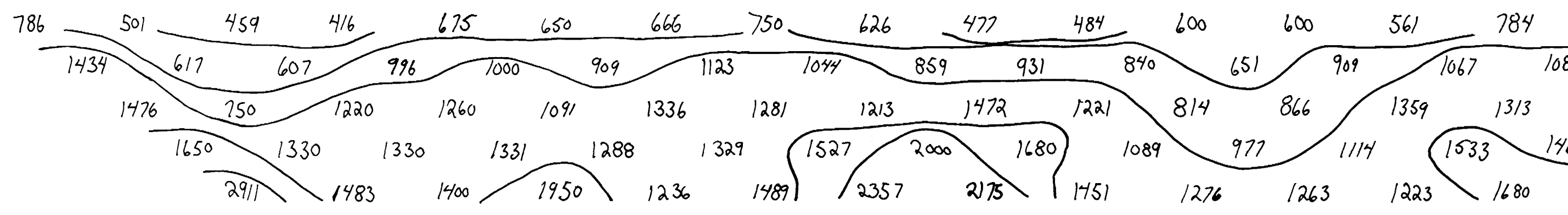
AUGUST 8-9 1984

OPERATOR Guy GELINAS

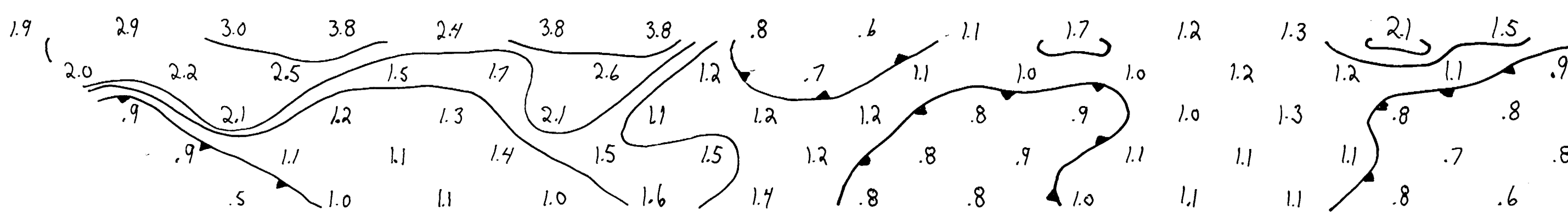
DATE: _____

INDUCED POLARIZATION AND RESISTIVITY SURVEY

100N 102N 104N 106N 108N 110N 112N 114N 116N 118N 120N 122N 124N 126N 128N 130N

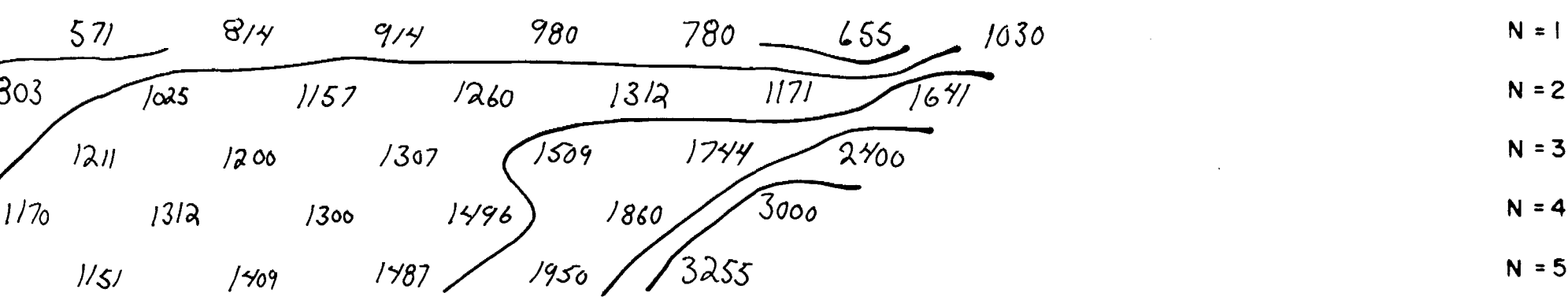


100N 102N 104N 106N 108N 110N 112N 114N 116N 118N 120N 122N 124N 126N 128N 130N

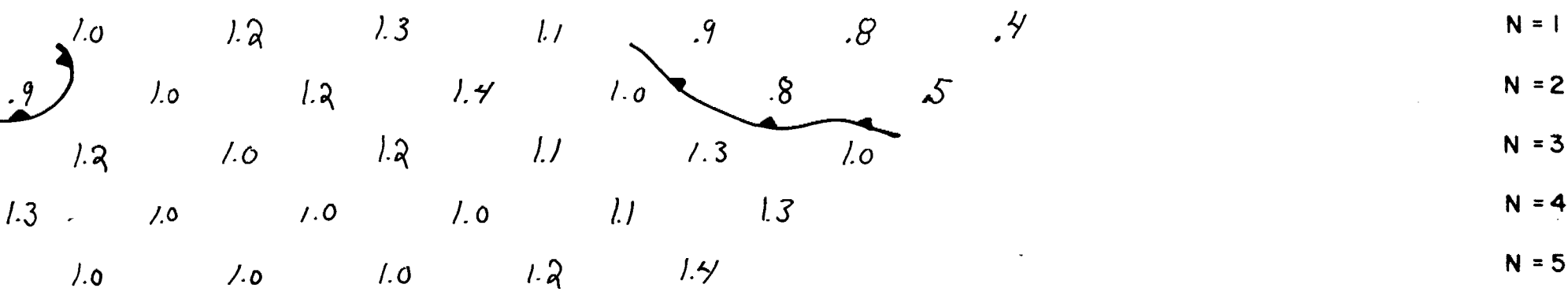


26N 128N 130N 132N 134N 136N 138N 140N 142N

RESISTIVITY (APP) : OHM FEET

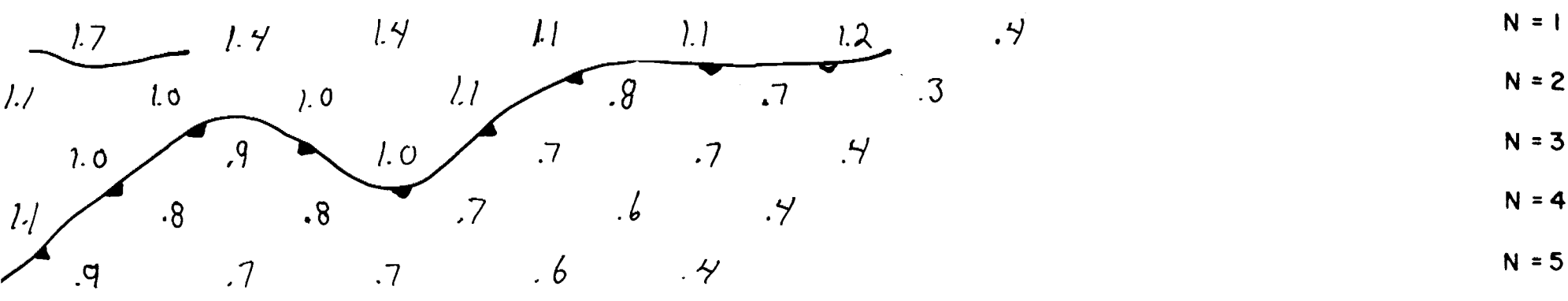


FREQUENCY EFFECT (APP) IN %



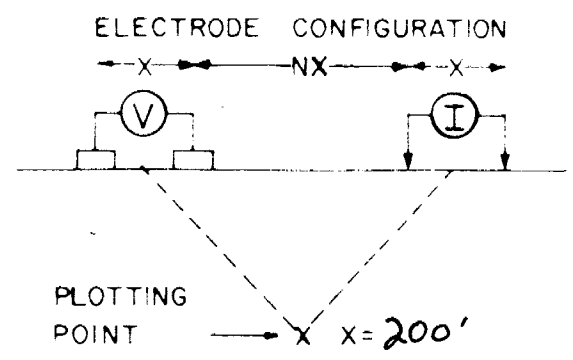
26N 128N 130N 132N 134N 136N 138N 140N 142N

METAL FACTOR (APP)



COMPANY: FALCONBRIDGE LTD
 PROPERTY: Michaud Block Pn 620
PERRY LAKE MATHESON ONTARIO

LINE NO - 290E



63.4487
 FREQUENCIES: 25 & 4.0 HZ

SURFACE PROJECTION OF ANOMALOUS ZONES

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

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

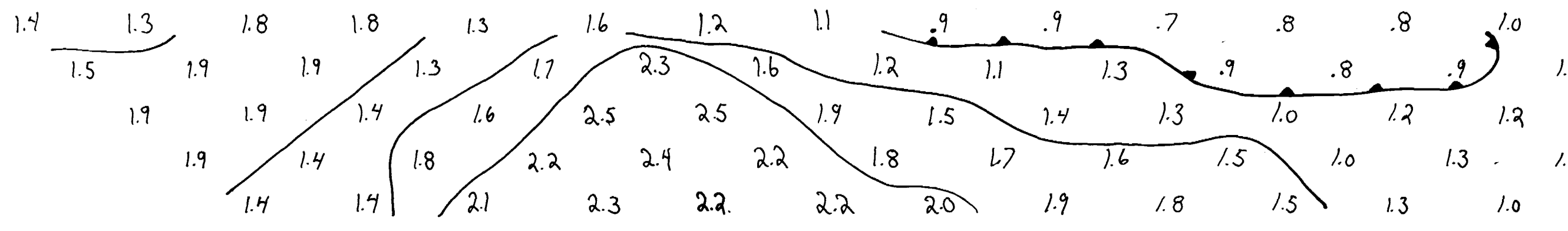
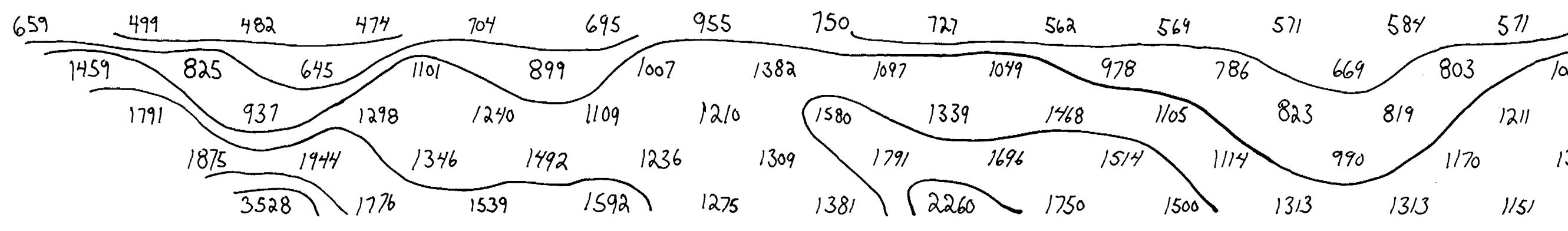
INSTRUMENT : PHOENIX IPV-1 IPT-1
 CONTRACTOR : REMY BELANGER ENRG.

DATE SURVEYED August 8-9 1984 APPROVED _____

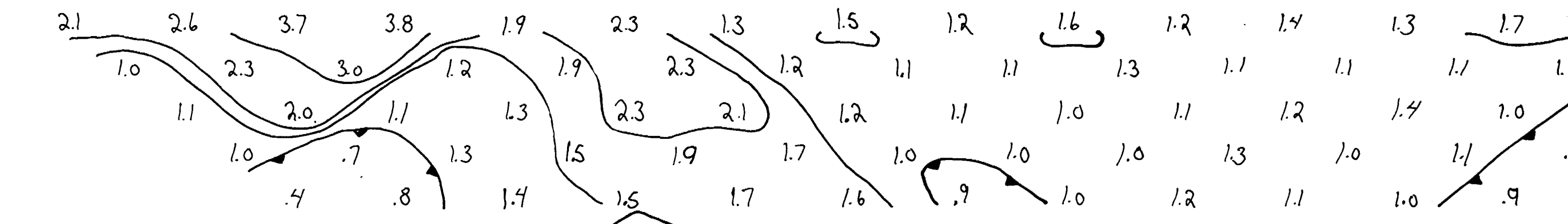
OPERATOR GUY GELINAS DATE _____

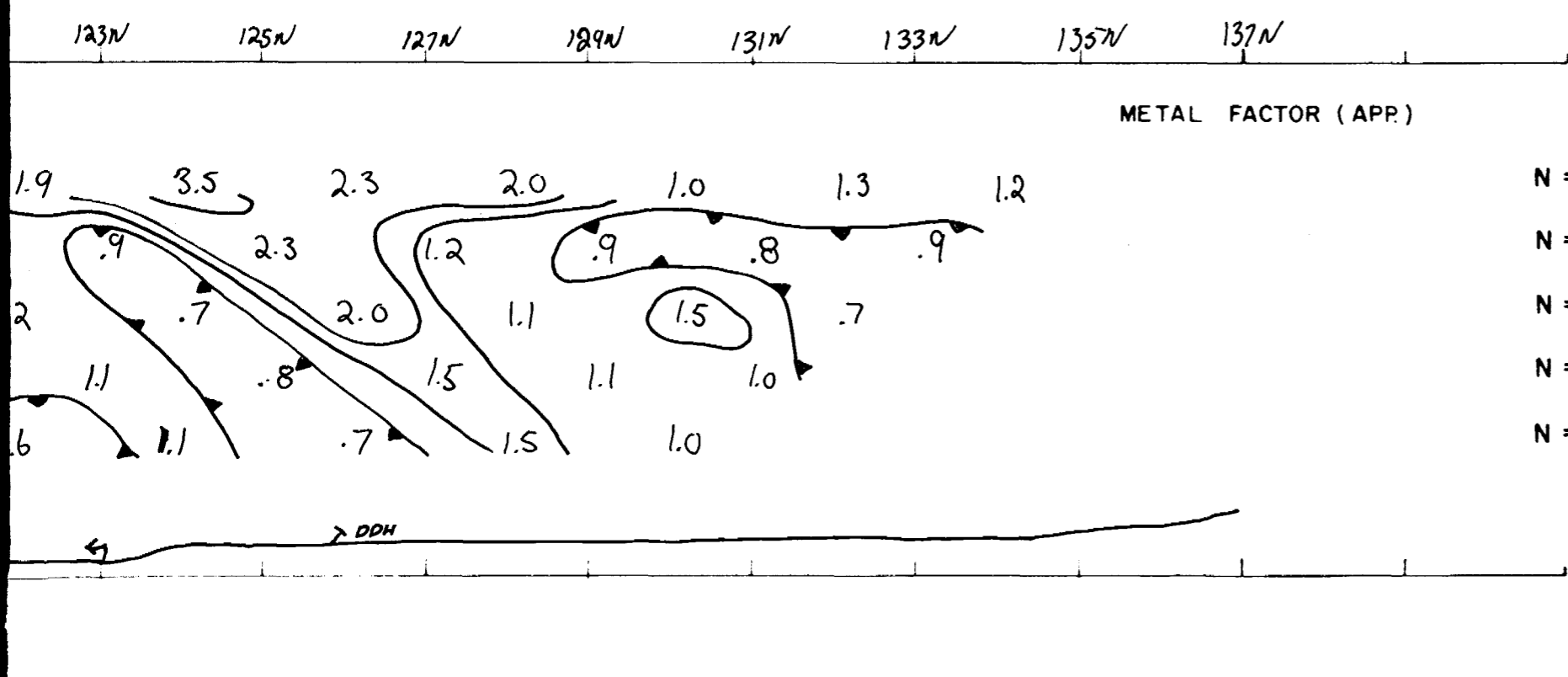
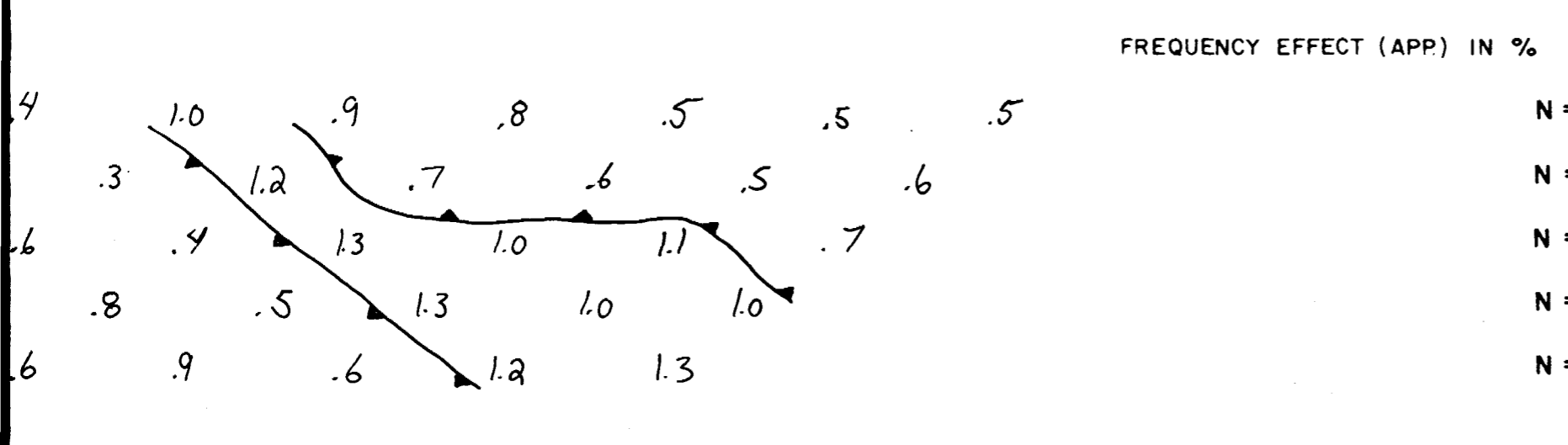
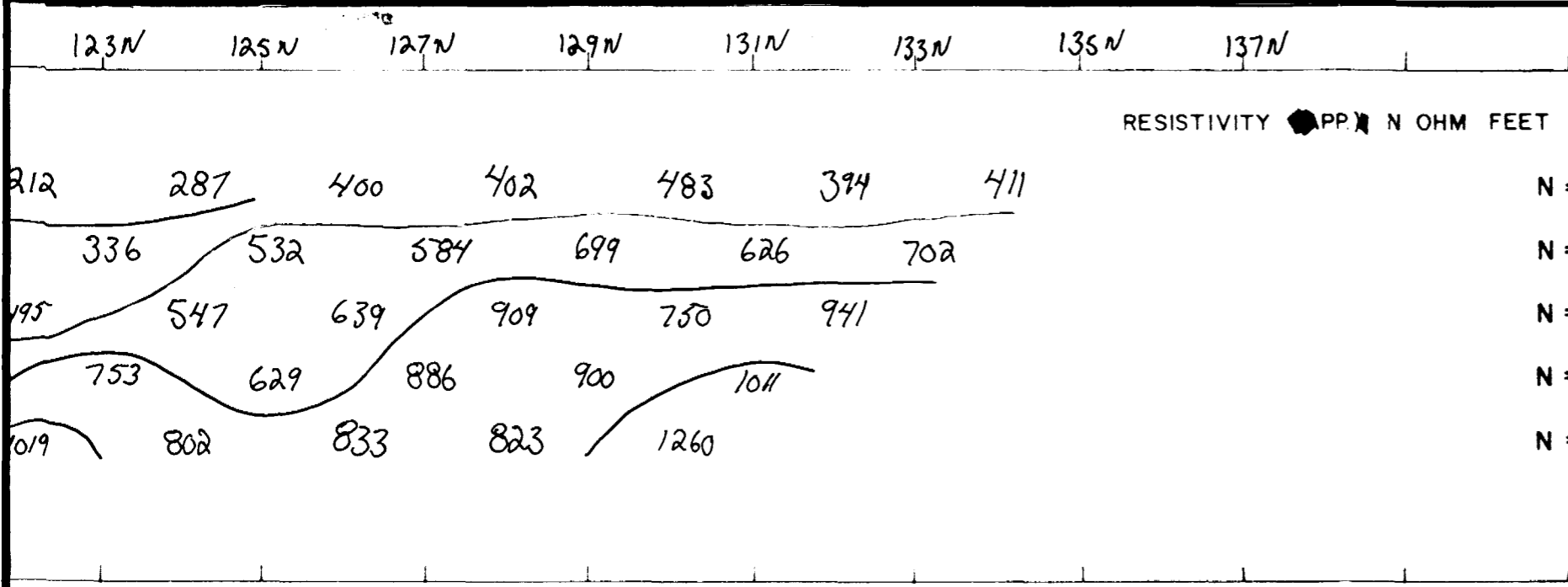
INDUCED POLARIZATION AND RESISTIVITY SURVEY

100N 102N 104N 106N 108N 110N 112N 114N 116N 118N 120N 122N 124N 126N 128N



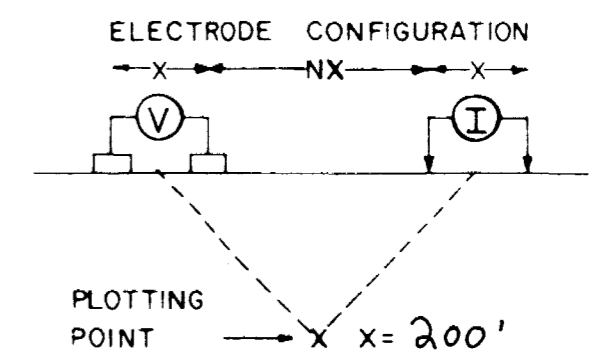
100N 102N 104N 106N 108N 110N 112N 114N 116N 118N 120N 122N 124N 126N 128N





COMPANY: FALCON BRIDGE LTD
 PROPERTY: MICHAUD BLOCK PN 620
PERRY LAKE MATHESON ONTARIO

LINE NO. - 322 E



63 4487
 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

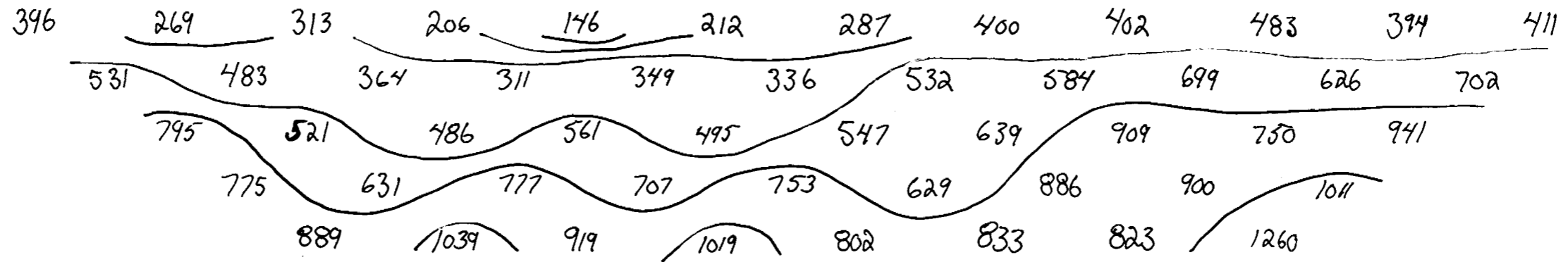
INSTRUMENT : PHOENIX IPV-1
 IPT-1
 CONTRACTOR : REMY BELANGER ENRG.

DATE SURVEYED: August - 16 - 1984 APPROVED: _____

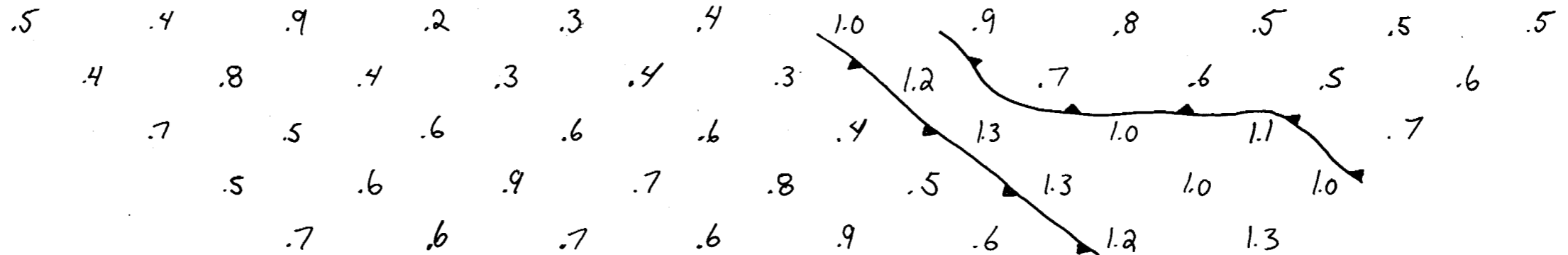
OPERATOR GUY GELINAS DATE: _____

INDUCED POLARIZATION AND RESISTIVITY SURVEY

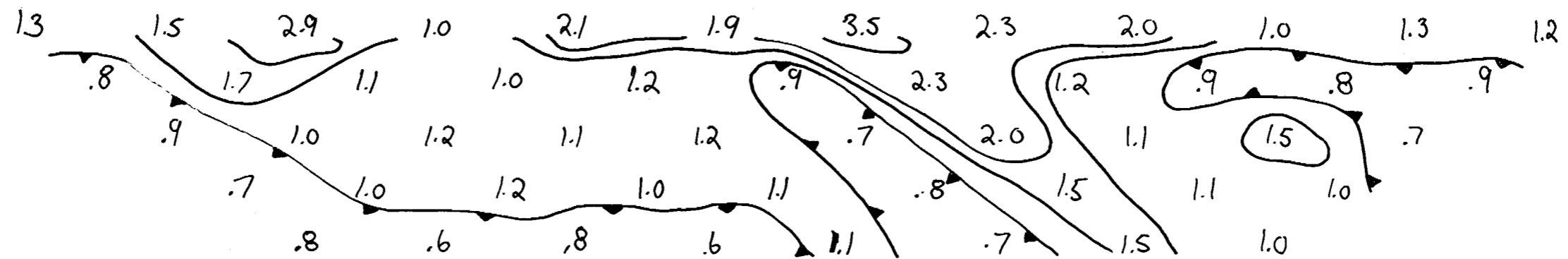
RESISTIVITY P



FREQUENCY EFFECT



METAL FACTOR

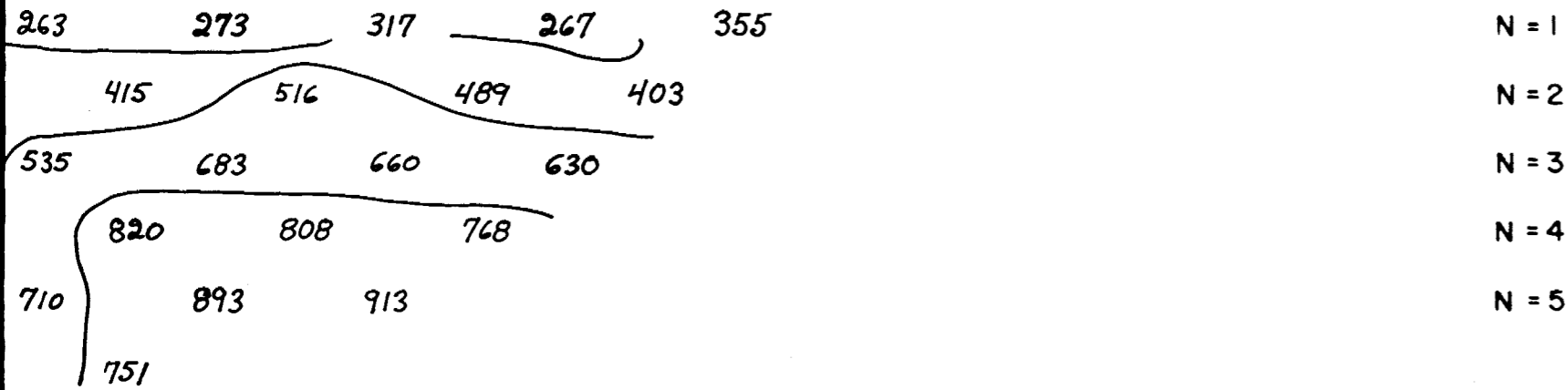


LAKE

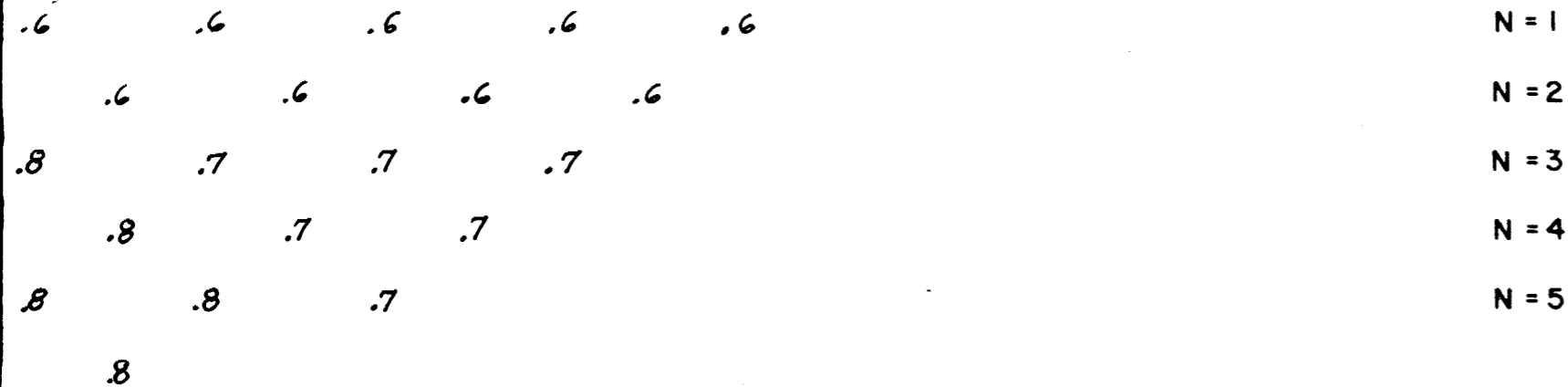
DDH

128N 130N 132N 134N 136N 138N

RESISTIVITY (APP) IN OHM FEET

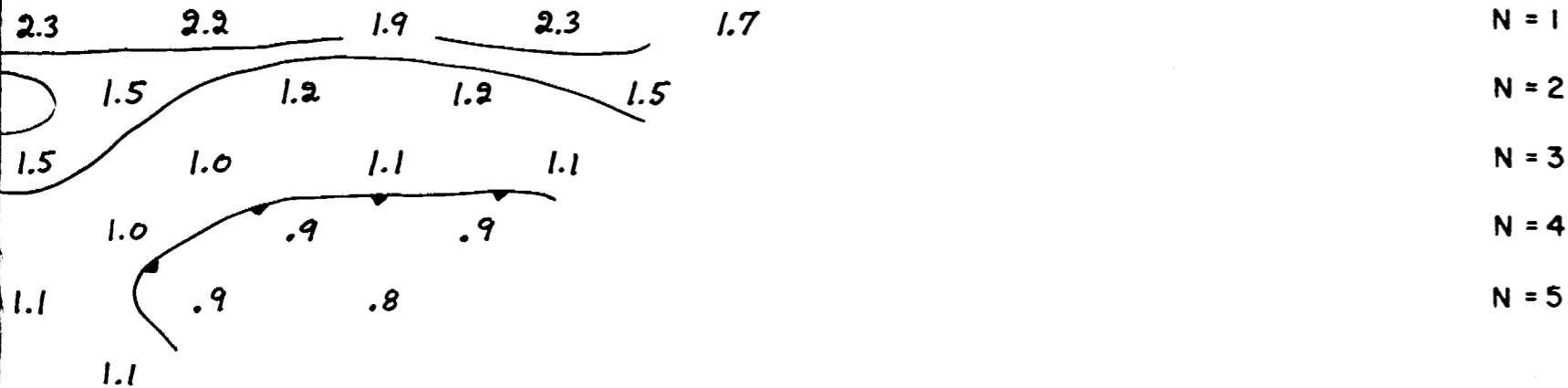


FREQUENCY EFFECT (APP) IN %



128N 130N 132N 134N 136N 138N

METAL FACTOR (APP)

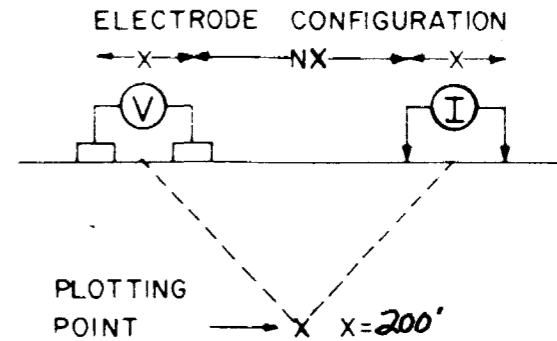


COMPANY: FALCONBRIDGE LTD.

PROPERTY: MICHAUD BLOCK PN 620

PERRY LAKE, MATHESON, ONTARIO

LINE NO. - 326 E



63-4487

FREQUENCIES: 25840 HZ

SURFACE PROJECTION OF ANOMALOUS ZONES

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 :

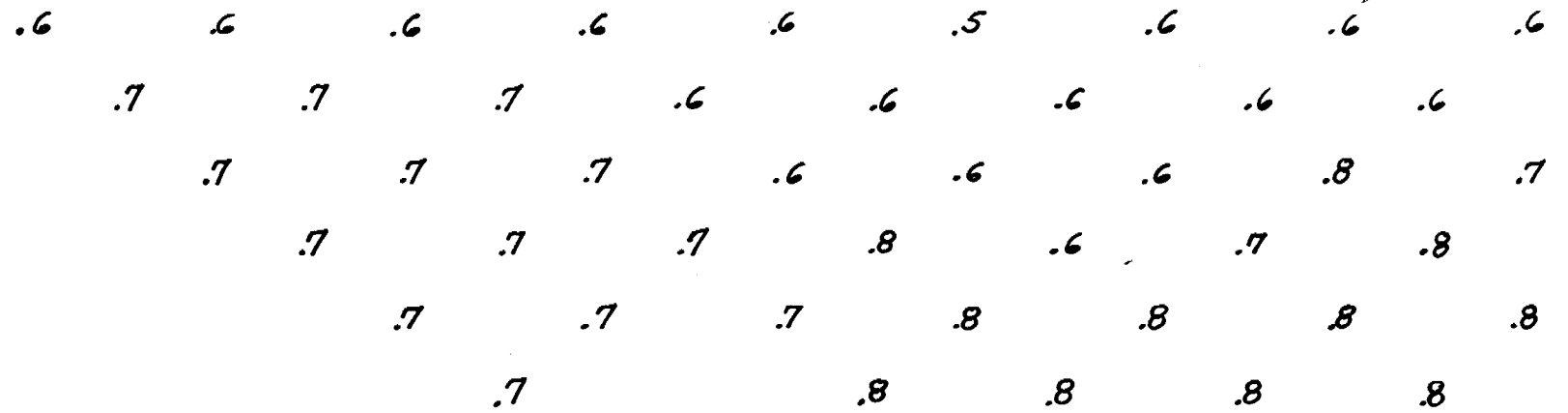
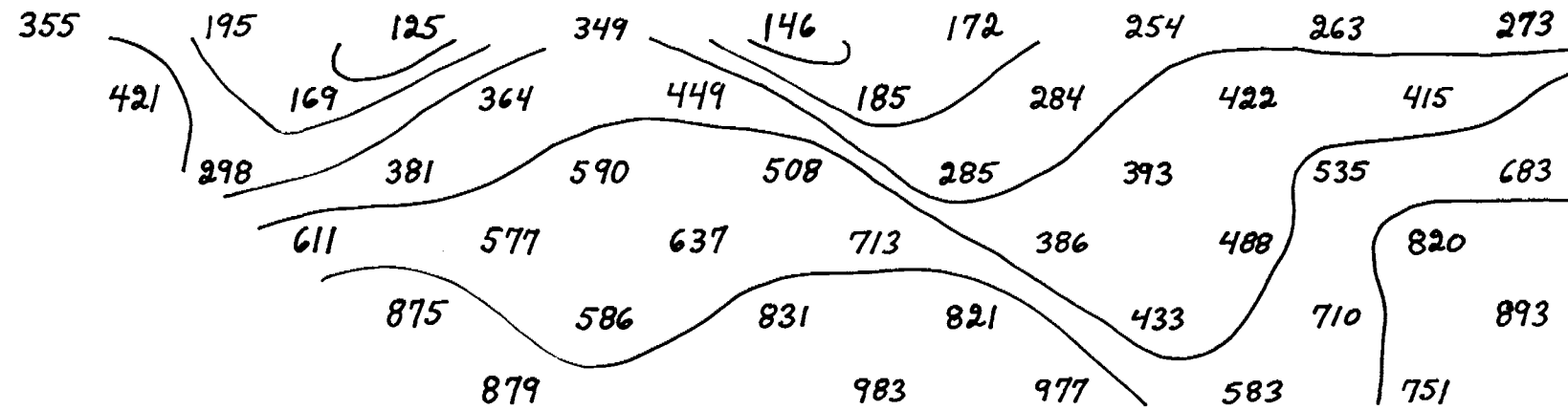
SEPTEMBRE-7-8- 1984

OPERATOR GUY GELINAS

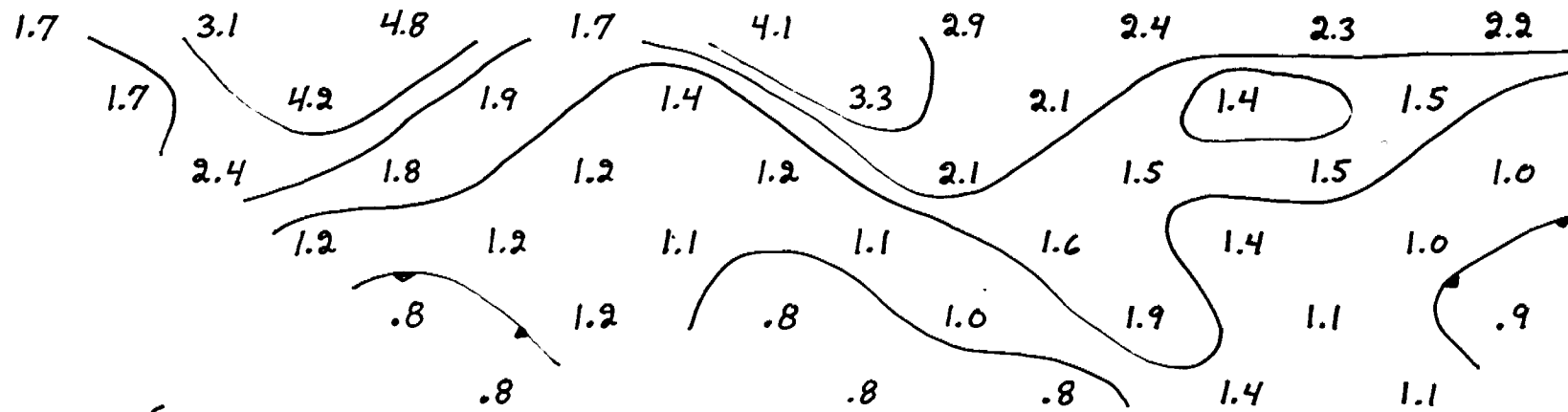
DATE :

INDUCED POLARIZATION AND RESISTIVITY SURVEY

110N 112N 114N 116N 118N 120N 122N 124N 126N 128N

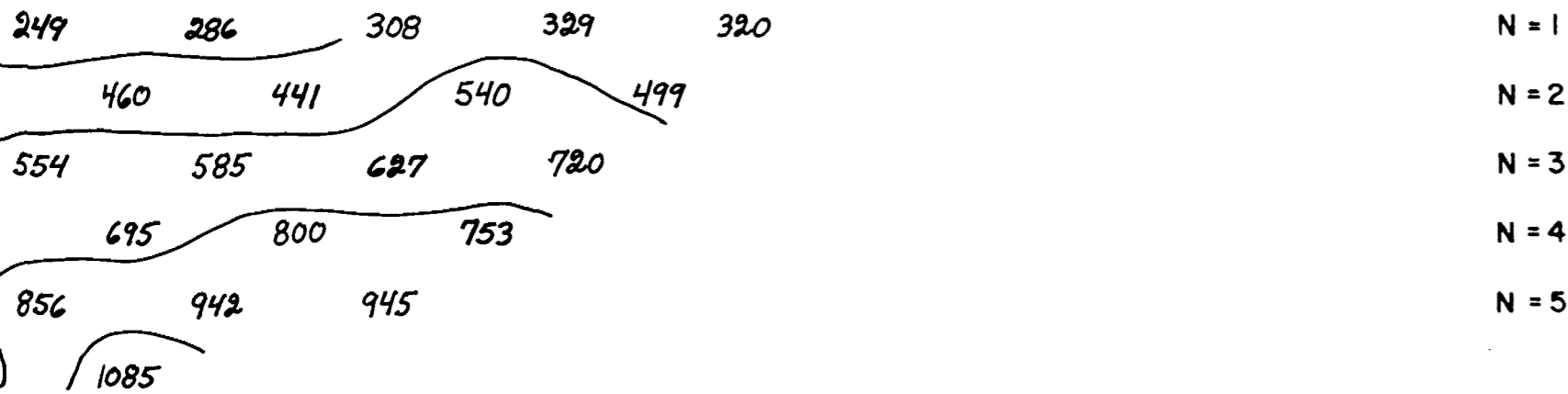


110N 112N 114N 116N 118N 120N 122N 124N 126N 128N

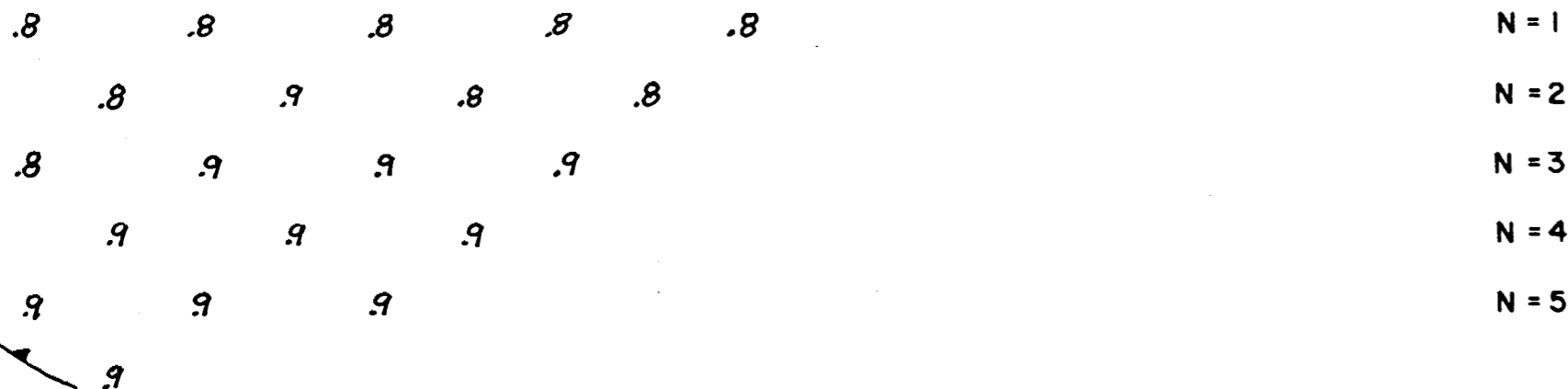


130N 132N 134N 136N 138N 140N

RESISTIVITY (APP) IN OHM FEET

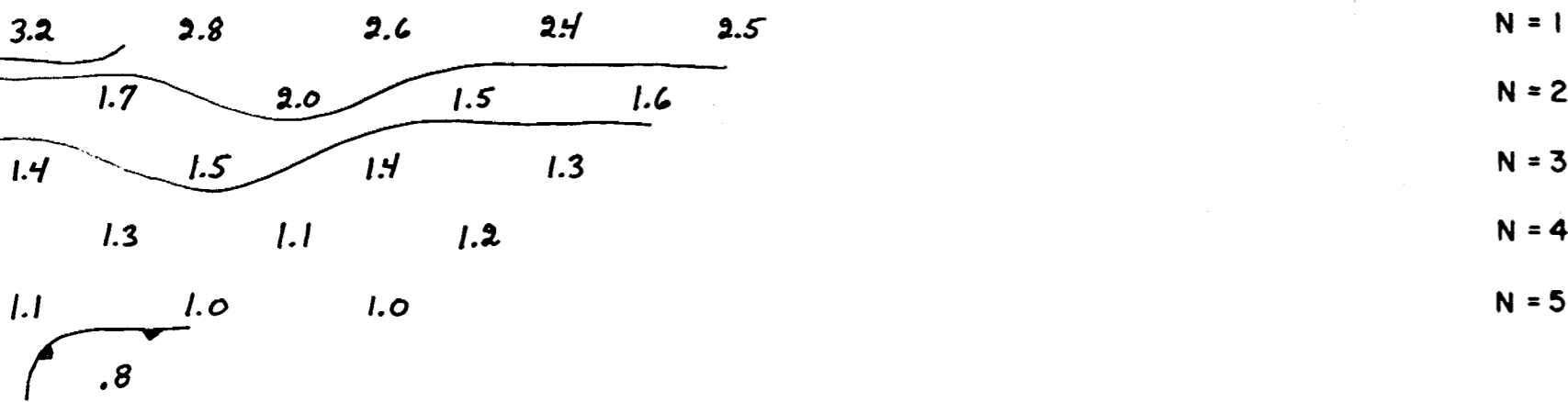


FREQUENCY EFFECT (APP) IN %



130N 132N 134N 136N 138N 140N

METAL FACTOR (APP)

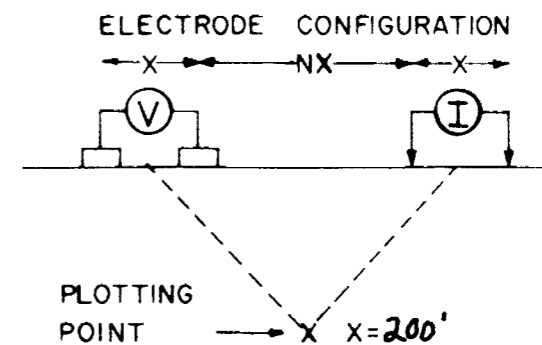


COMPANY: FALCONBRIDGE LTD.

PROPERTY: MICHAUD BLOCK PN 620

PERRY LAKE, MATHESON, ONTARIO

LINE NO. - 330 E



63,4487

FREQUENCIES: 25 & 4.0 HZ.

SURFACE PROJECTION OF ANOMALOUS ZONES

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: SEPTEMBER-4-6-11-1984

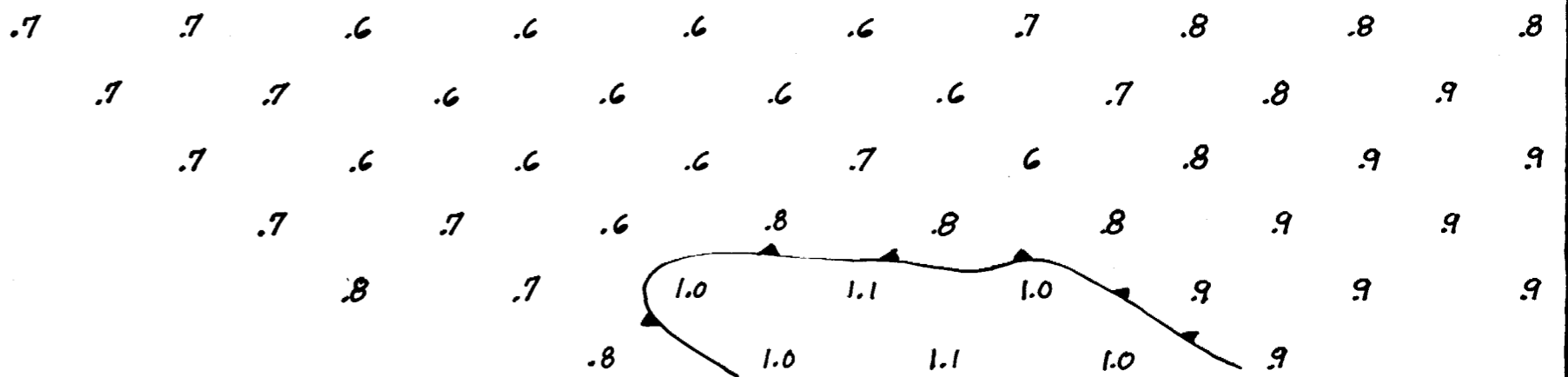
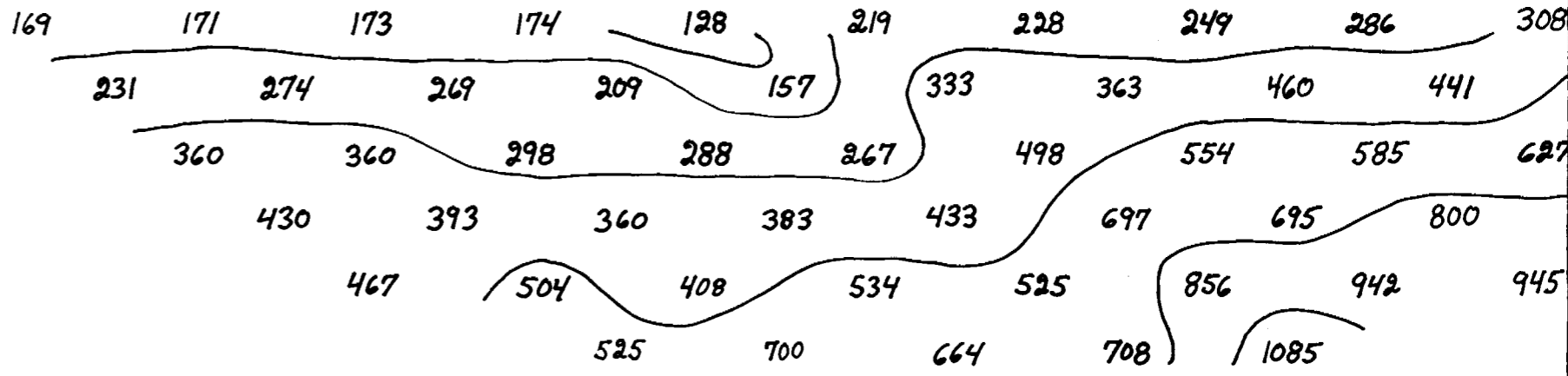
APPROVED: _____

OPERATOR: GUY GELINAS

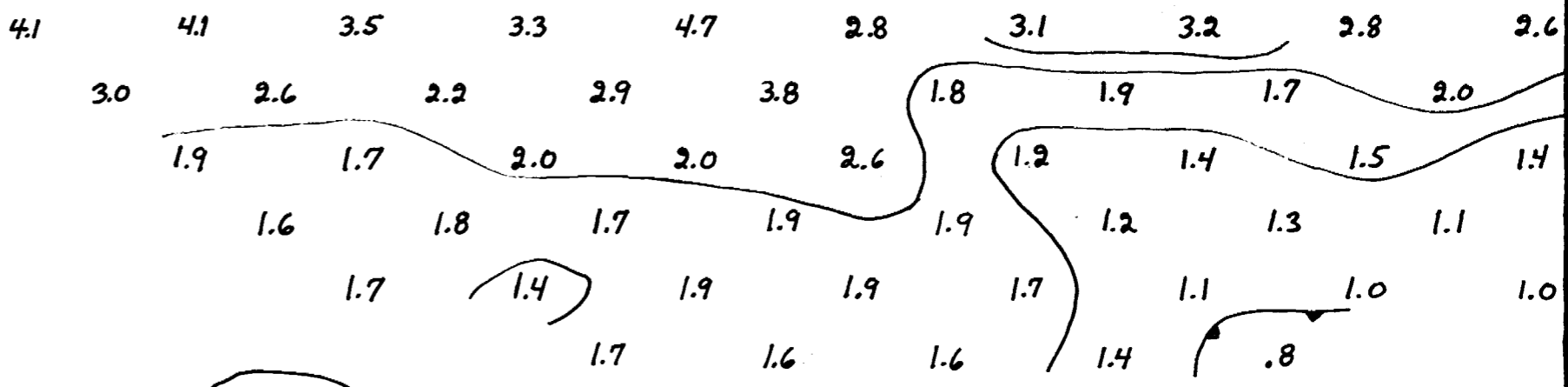
DATE: _____

INDUCED POLARIZATION AND RESISTIVITY SURVEY

112N 114N 116N 118N 120N 122N 124N 126N 128N 130N 132N



112N 114N 116N 118N 120N 122N 124N 126N 128N 130N 132N



LAKE

122N 124N 126N 128N 130N 132N 134N 136N 138N

RESISTIVITY (APP) IN OHM FEET

124	163	167	189	213	247	246	N = 1
188	199	265	268	328	384	386	N = 2
251	292	367	413	459	463	N = 3	
330	340	379	540	541	533	N = 4	
420	437	513	630	604	N = 5		

FREQUENCY EFFECT (APP) IN %

.3	.4	.5	.5	.4	.4	.4	N = 1
.6	.4	.4	.6	.7	.5	.4	N = 2
.5	.4	.5	.6	.9	.4	N = 3	
.9	.5	.4	.6	.9	.7	N = 4	
.9	.7	.6	.8	.8	N = 5		

122N 124N 126N 128N 130N 132N 134N 136N 138N

METAL FACTOR (APP)

2.4	2.5	3.0	2.7	1.9	1.6	1.6	N = 1
3.2	2.0	1.5	2.2	2.1	1.3	1.0	N = 2
2.3	1.4	1.4	1.5	2.0	.9	N = 3	
2.7	1.5	1.1	1.1	1.7	1.3	N = 4	
2.1	1.6	1.2	1.3	1.3	N = 5		

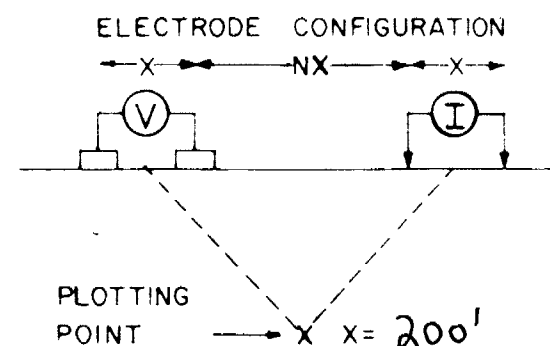
WATER 4

COMPANY: FALCON BRIDGE LTD

PROPERTY: MICHAUD BLOCK Pn 620

PERRY LAKE MATHESON ONTARIO

LINE NO - 338E



63.4487

FREQUENCIES: .25 & 4.0 HZ

SURFACE PROJECTION OF ANOMALOUS ZONES

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: August - 16 - 17 - 1984

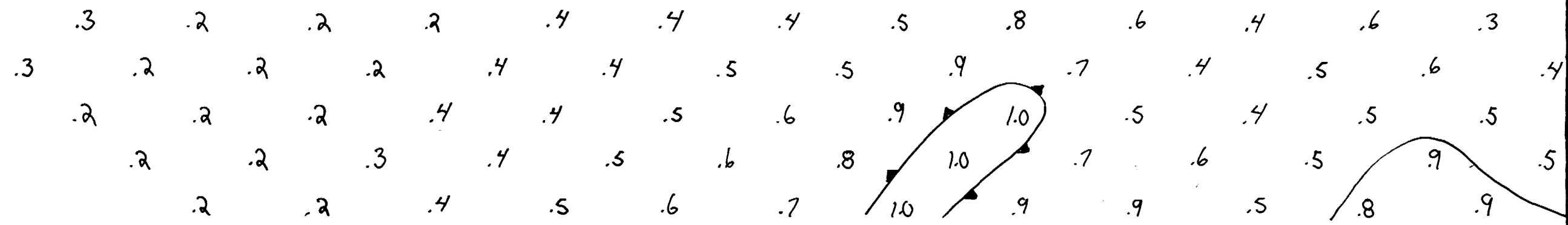
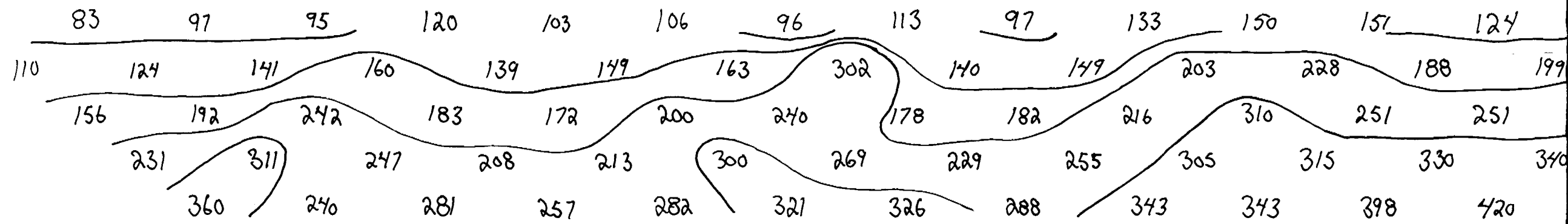
APPROVED: _____

OPERATOR Guy GELINAS

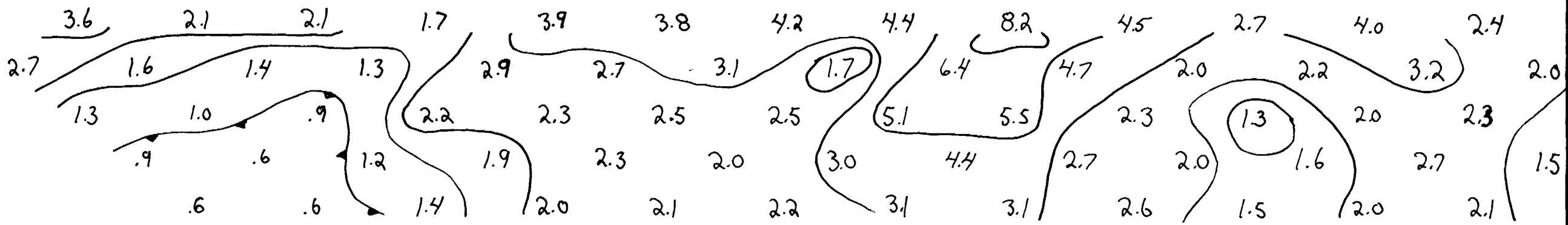
DATE: _____

INDUCED POLARIZATION AND RESISTIVITY SURVEY

94N 96N 98N 100N 102N 104N 106N 108N 110N 112N 114N 116N 118N 120N 122N 124N



94N 96N 98N 100N 102N 104N 106N 108N 110N 112N 114N 116N 118N 120N 122N 124N



→ WATER ←

25N 127N 129N 131N 133N 135N 137N 139N 141N

RESISTIVITY (APP) IN OHM FEET

161	165	176	198	177	159	N=1	
259	240	246	264	286	256	292	N=2
346	330	324	355	375	385	N=3	
379	428	394	424	446	492	N=4	
447	497	500	486	564	N=5		

FREQUENCY EFFECT (APP) IN %

.6	.5	.4	.4	.5	.5	N=1	
.5	.6	.7	.4	.6	.5	.5	N=2
.6	.7	.8	.7	.6	.5	N=3	
.6	.6	.8	.9	.9	.7	N=4	
.6	.6	.8	1.0	.9	N=5		

25N 127N 129N 131N 133N 135N 137N 139N 141N

METAL FACTOR (APP)

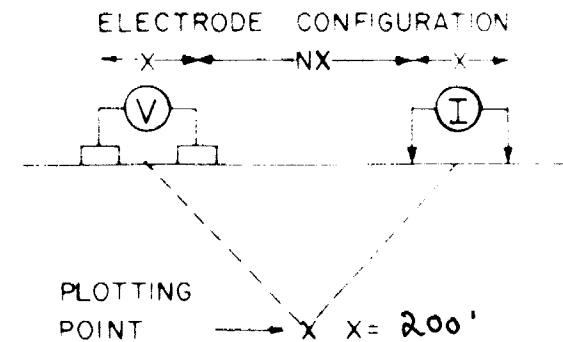
3.7	3.0	2.3	2.0	2.8	3.2	N=1	
1.9	2.5	2.9	1.5	2.1	2.0	1.7	N=2
1.7	2.1	2.5	2.0	1.6	1.3	N=3	
1.6	1.4	2.0	2.1	2.0	1.4	N=4	
1.3	1.2	1.6	2.1	1.6	N=5		

COMPANY: FALCON BRIDGE LTD

PROPERTY: MICHAUD BLOCK PN 620

PERRY LAKE MATHESON ONTARIO

LINE NO - 344E



63,4487

FREQUENCIES: 25 & 40 HZ

SURFACE PROJECTION OF ANOMALOUS ZONES

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

NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1, 1.5, 2, 3, 5, 7.5, 100

INSTRUMENT: PHOENIX IPV-1 IPT-1

CONTRACTOR: REMY BELANGER ENRG.

DATE SURVEYED

APPROVED

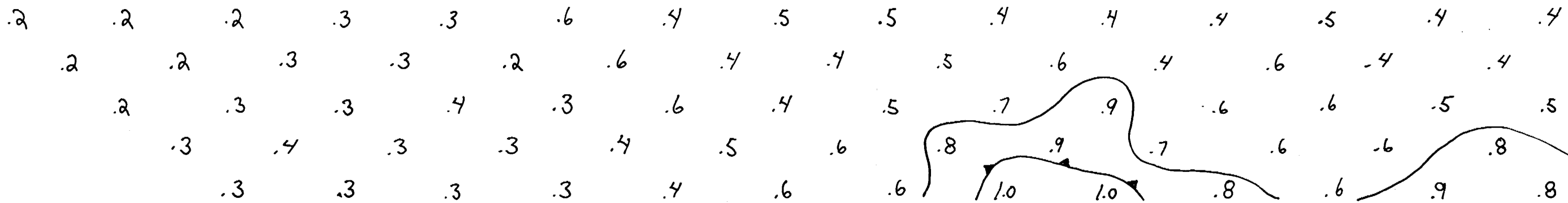
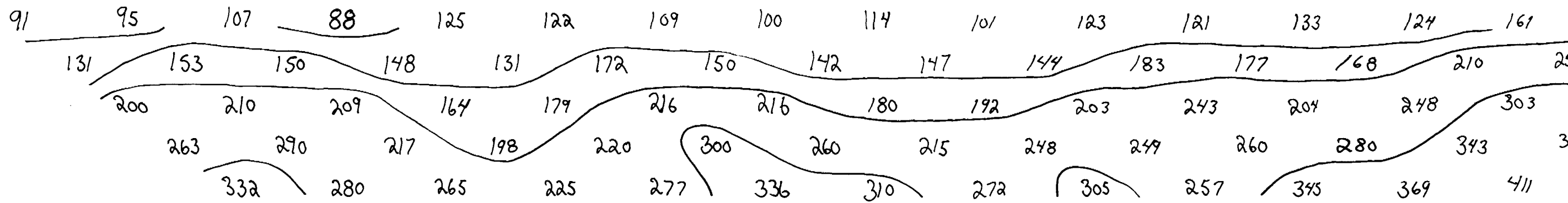
August -17 - 1984

OPERATOR GUY GELINAS

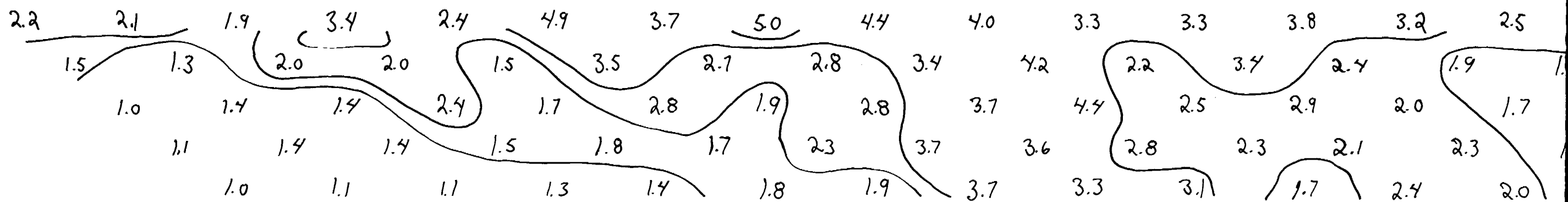
DATE _____

INDUCED POLARIZATION AND RESISTIVITY SURVEY

93N 95N 97N 99N 101N 103N 105N 107N 109N 111N 113N 115N 117N 119N 121N 123N 125



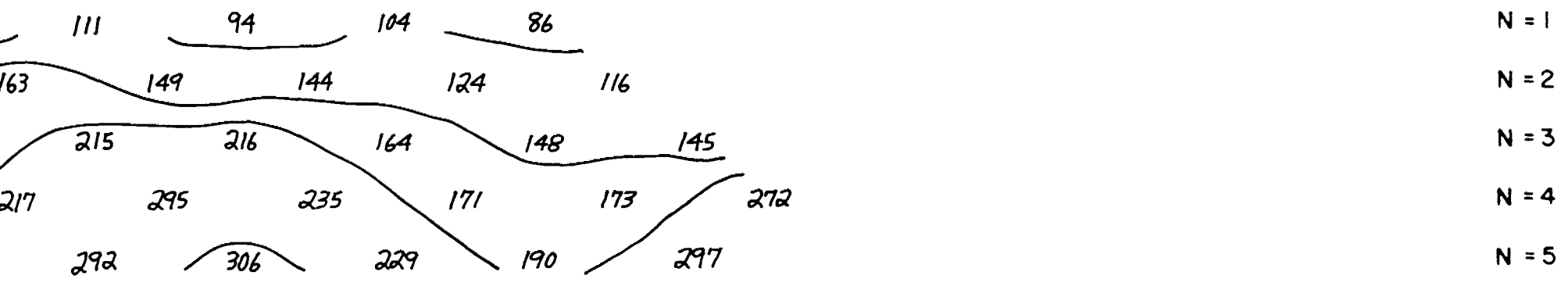
93N 95N 97N 99N 101N 103N 105N 107N 109N 111N 113N 115N 117N 119N 121N 123N 125



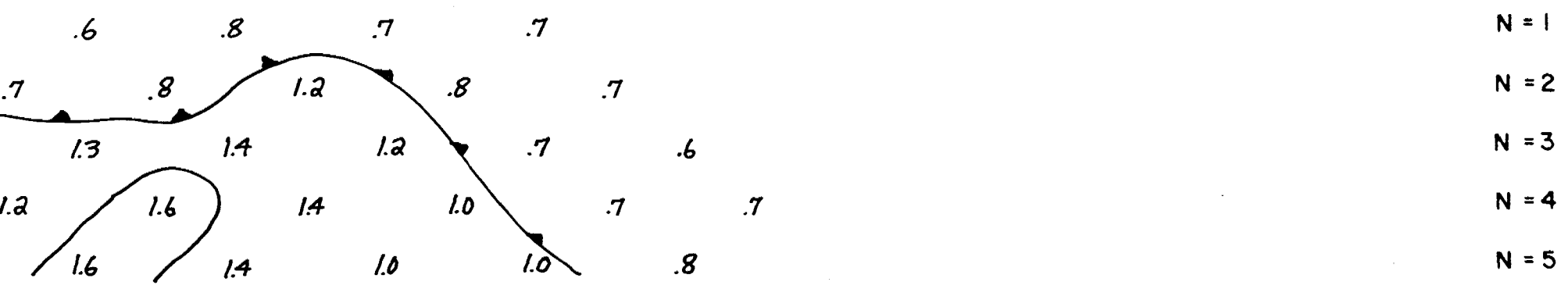
WATER

119N 121N 123N 125N 127N 129N 131N 133N 135N

RESISTIVITY (APP) IN OHM FEET

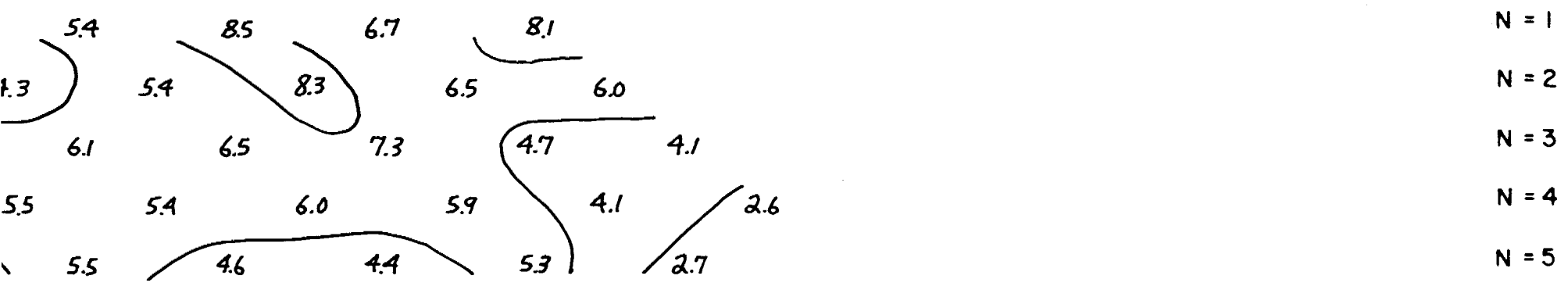


FREQUENCY EFFECT (APP) IN %



119N 121N 123N 125N 127N 129N 131N 133N 135N

METAL FACTOR (APP)

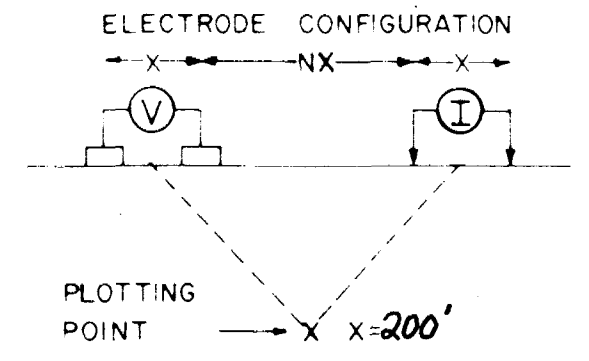


COMPANY: FALCONBRIDGE LTD.

PROPERTY: MICHAUD BLOCK PN 620

PERRY LAKE, MATHESON, ONTARIO

LINE NO - 374 E



634487

FREQUENCIES: 2584.0 HZ.

SURFACE PROJECTION OF ANOMALOUS ZONES

- 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

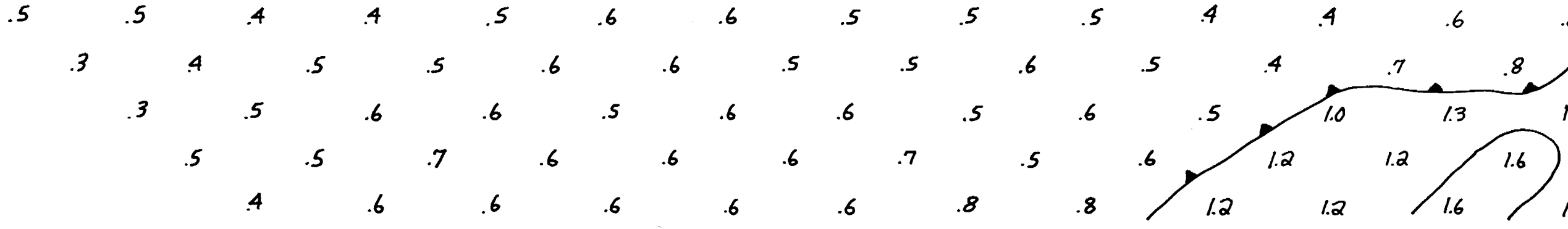
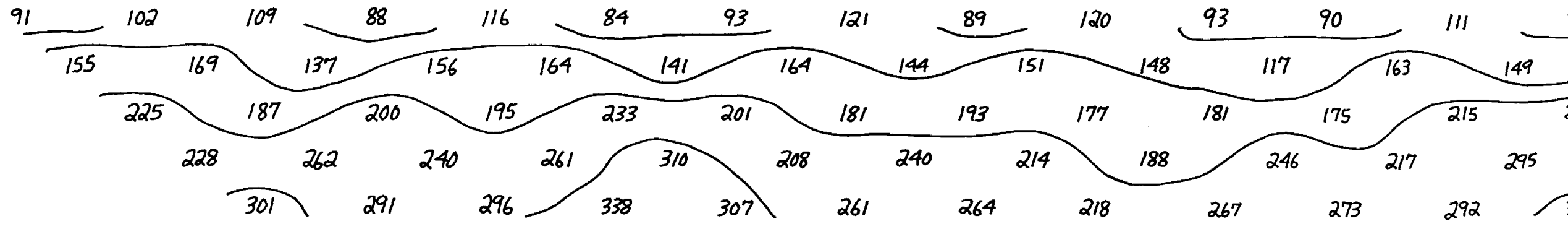
AUGUST-25-31-1984

OPERATOR Guy GELINAS

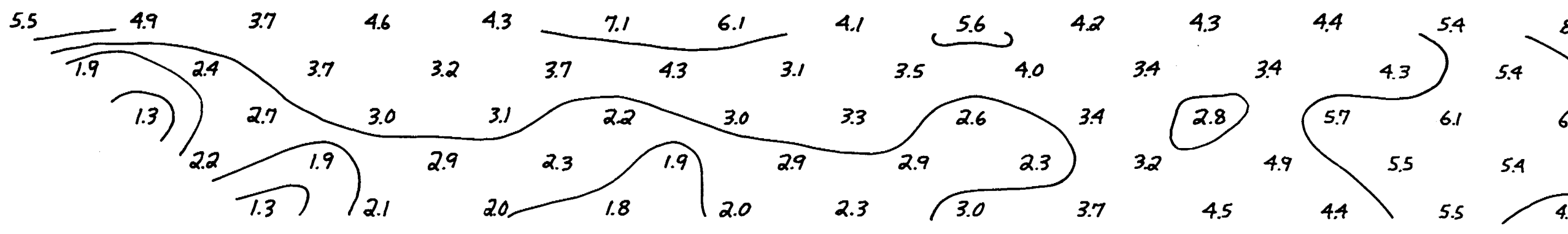
DATE: _____

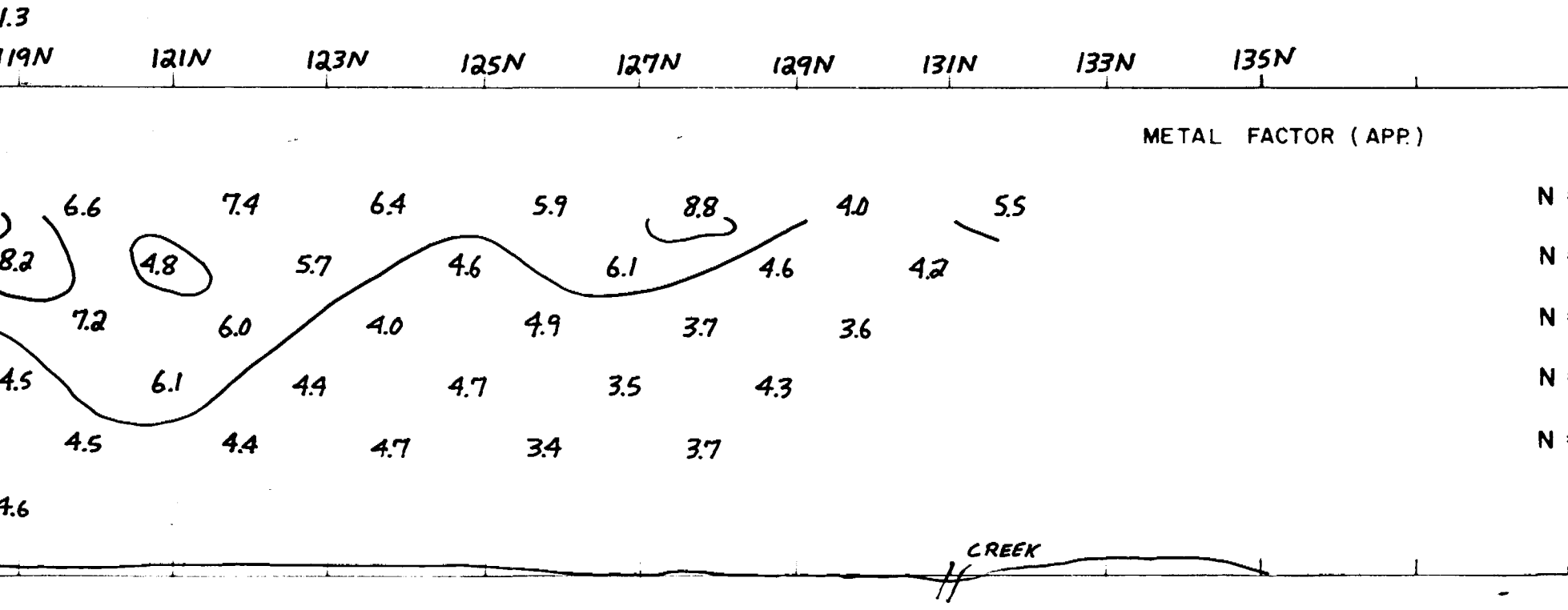
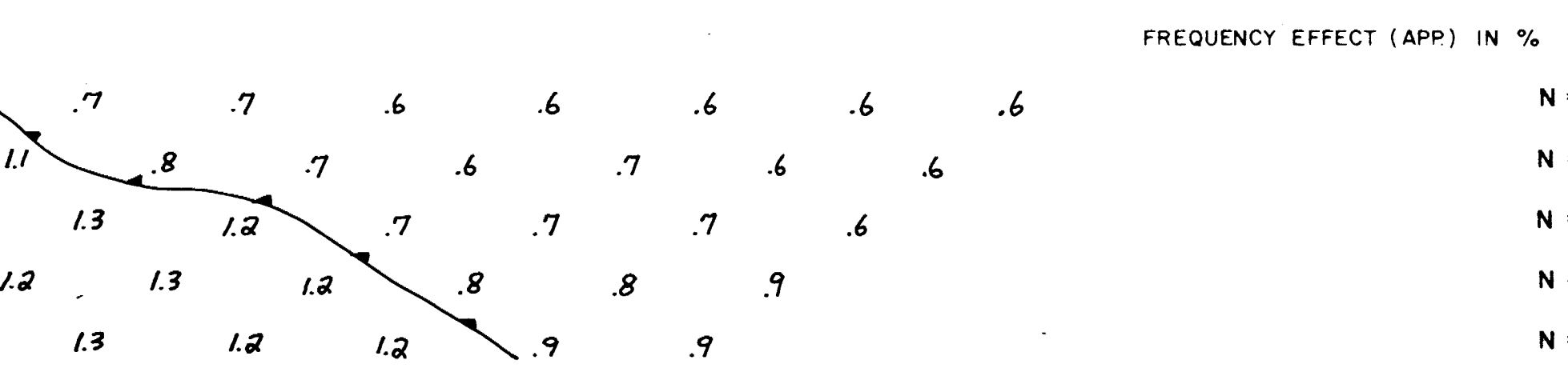
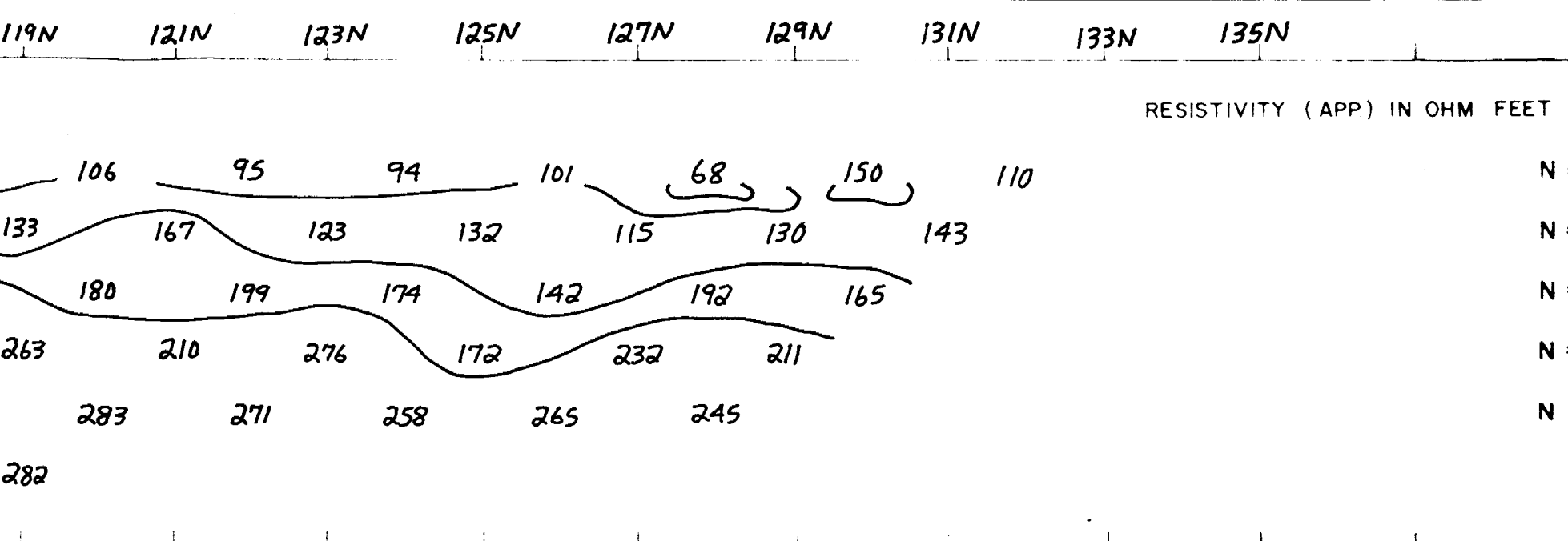
INDUCED POLARIZATION AND RESISTIVITY SURVEY

93N 95N 97N 99N 101N 103N 105N 107N 109N 111N 113N 115N 117N 119N 121N



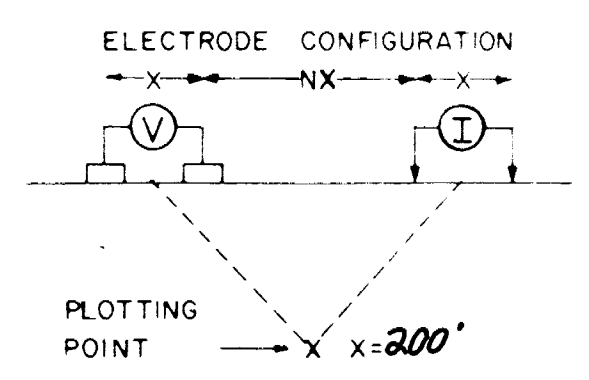
93N 95N 97N 99N 101N 103N 105N 107N 109N 111N 113N 115N 117N 119N 121N





COMPANY: FALCONBRIDGE LTD.
 PROPERTY: MICHAUD BLOCK PN 620
PERRY LAKE MATHESON ONTARIO

LINE NO - 378E



63.4487

FREQUENCIES: 25840 HZ

SURFACE PROJECTION OF ANOMALOUS ZONES

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:

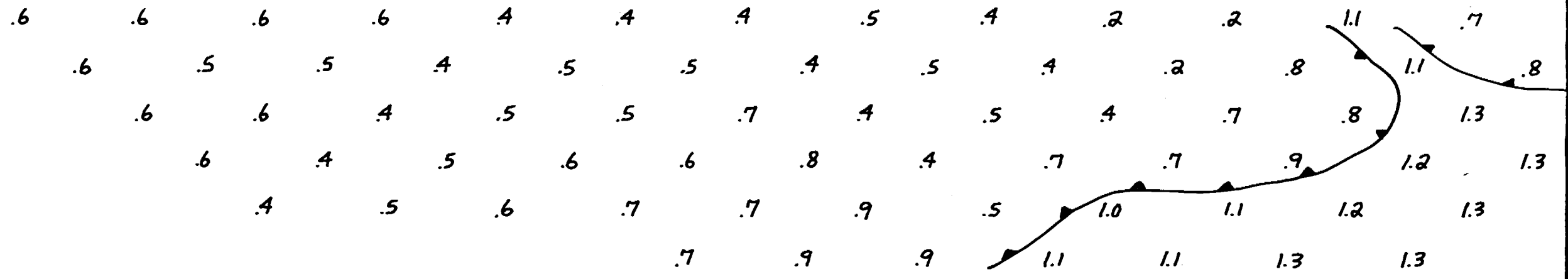
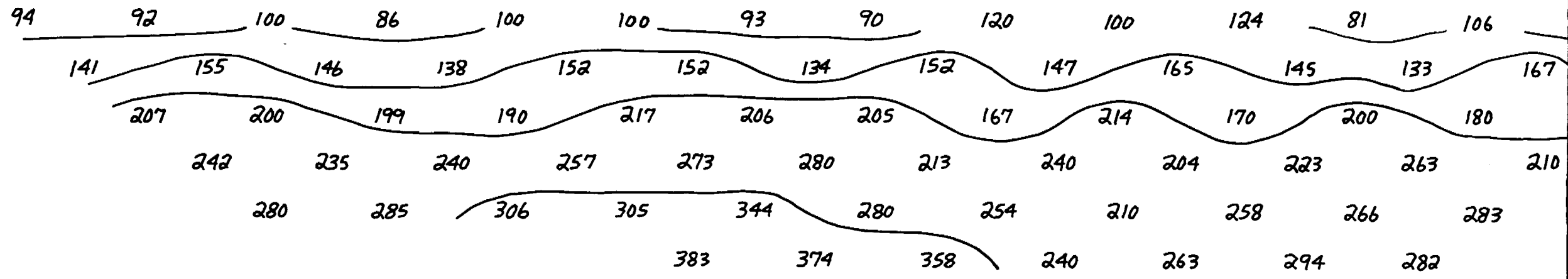
AUGUST-26-28-1984

OPERATOR: GUY GELINAS

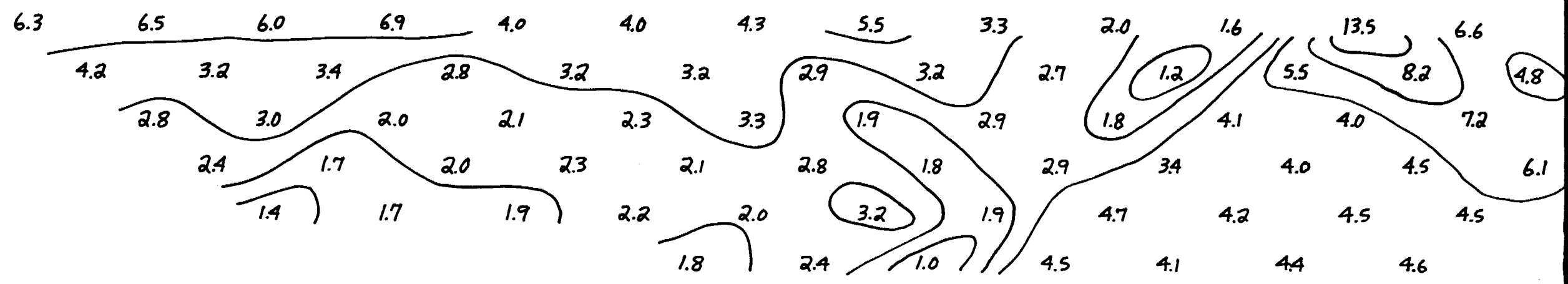
DATE: _____

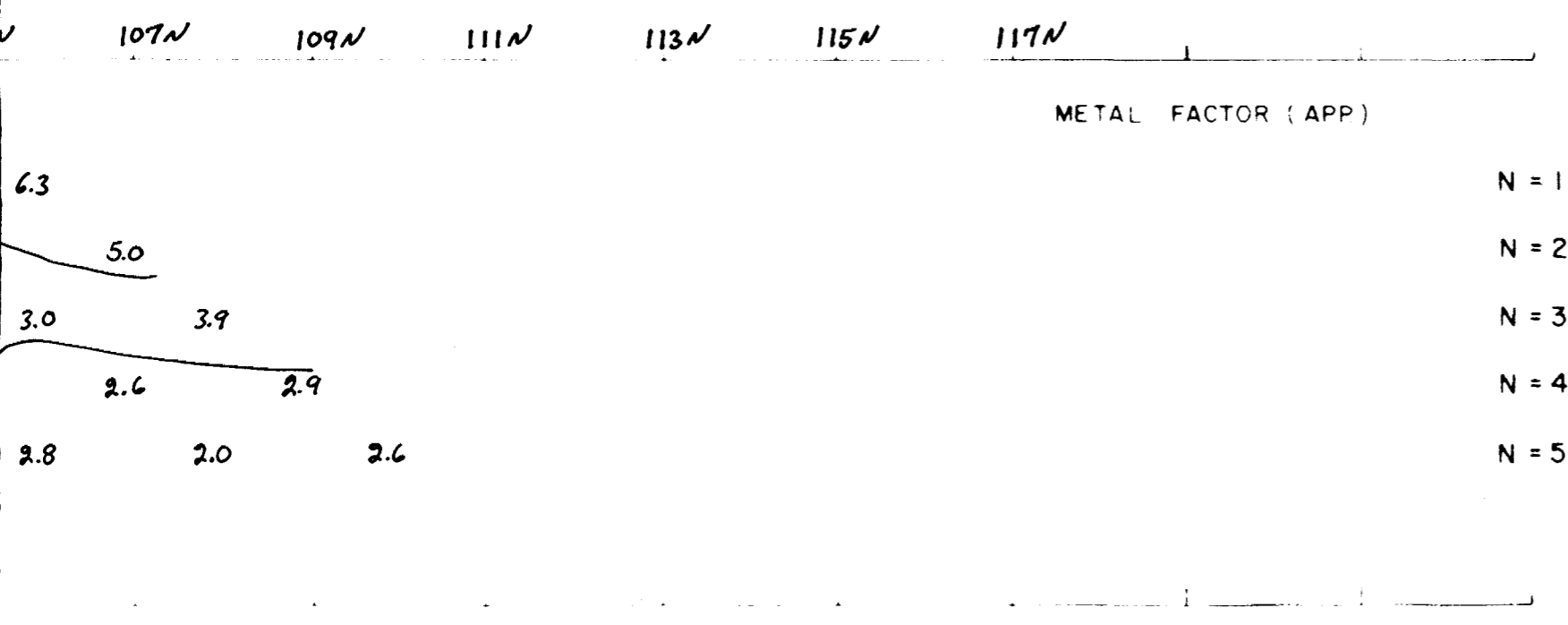
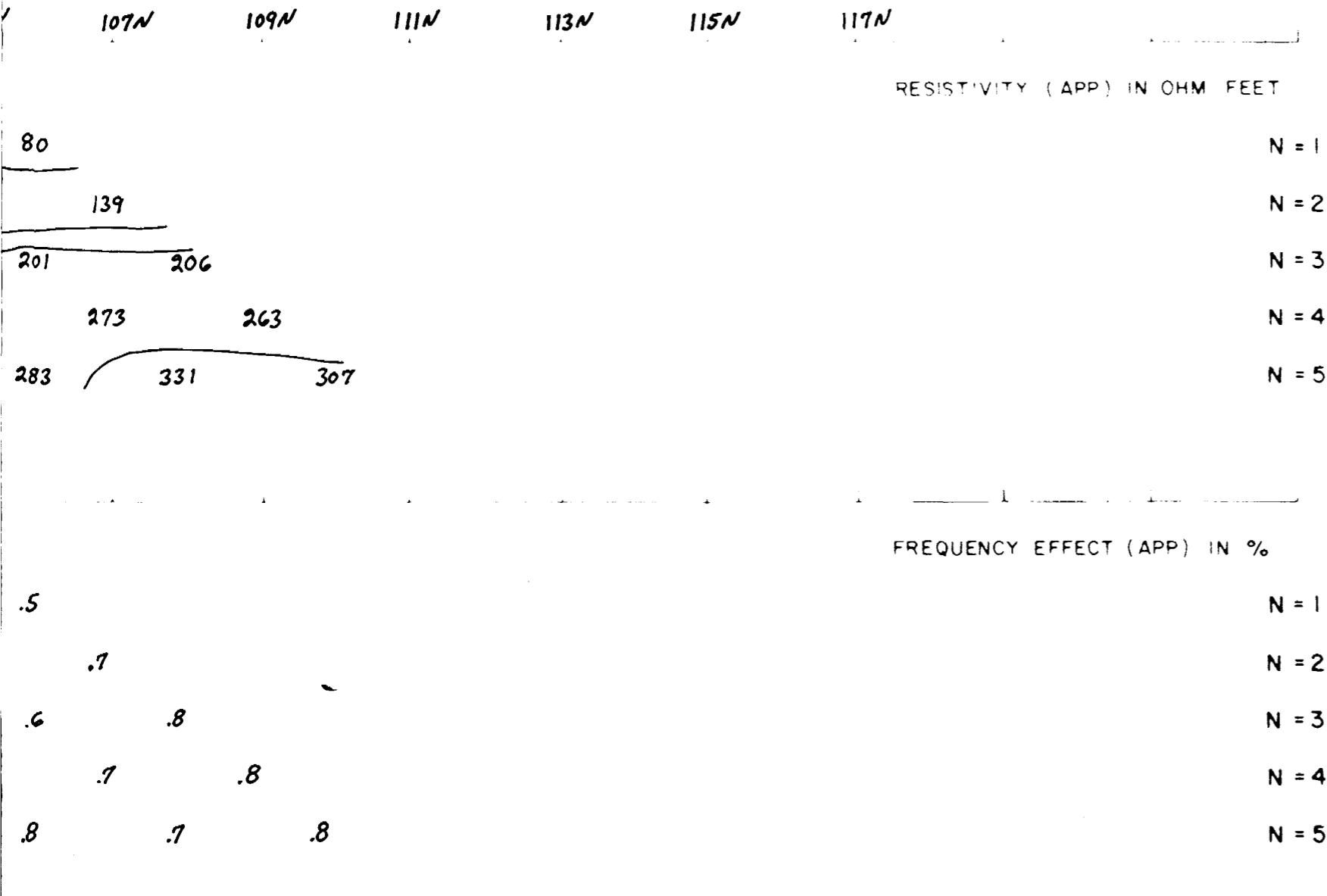
INDUCED POLARIZATION AND RESISTIVITY SURVEY

93N 95N 97N 99N 101N 103N 105N 107N 109N 111N 113N 115N 117N 119N 121N



93N 95N 97N 99N 101N 103N 105N 107N 109N 111N 113N 115N 117N 119N 121N



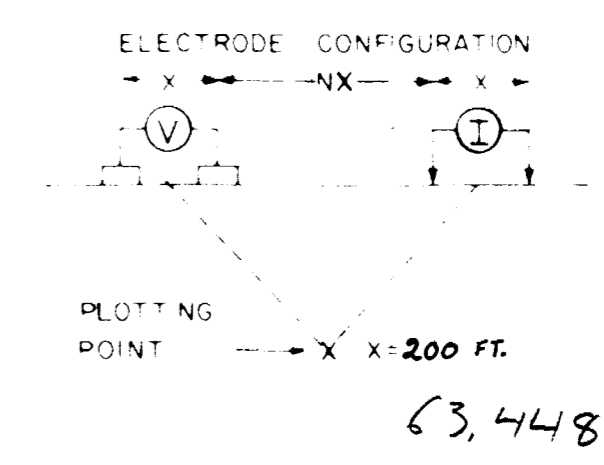


COMPANY: FALCONBRIDGE LTD.

PROPERTY: MICHAUD CLAIMS. PN 620.

PERRY LAKE, MATHESON, ONTARIO

LINE NO - 380 E



SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE

NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1, 1.5, 2, 3, 5, 15, 100

INSTRUMENT: PHOENIX [unclear] [unclear]

CONTRACTOR: Remy BELANGER ENRG

DATE SURVEYED: SEPTEMBER-3-1984

OPERATOR: Guy GELINAS

FREQUENCIES: 258 & 4.0 HZ.

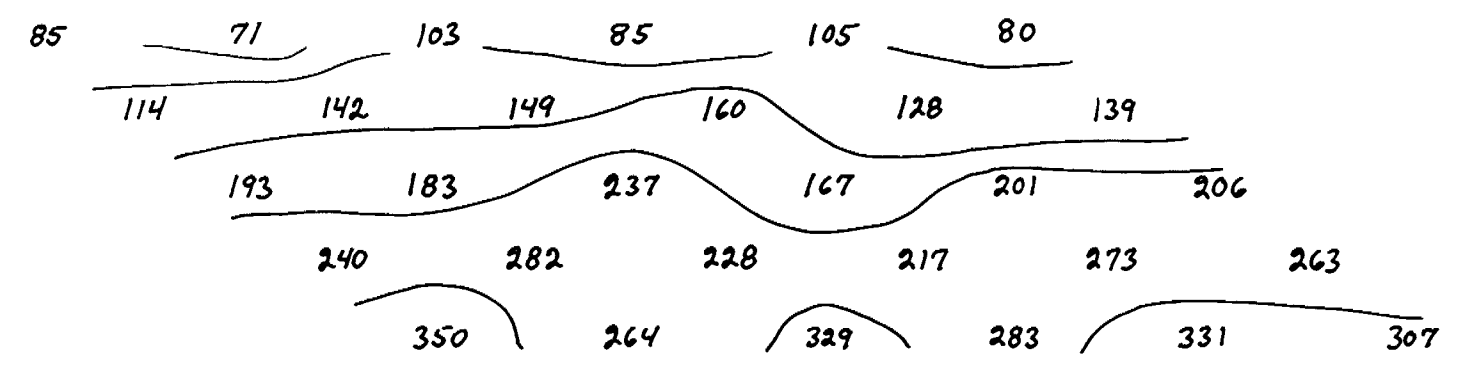
APPROVED: _____

DATE: _____

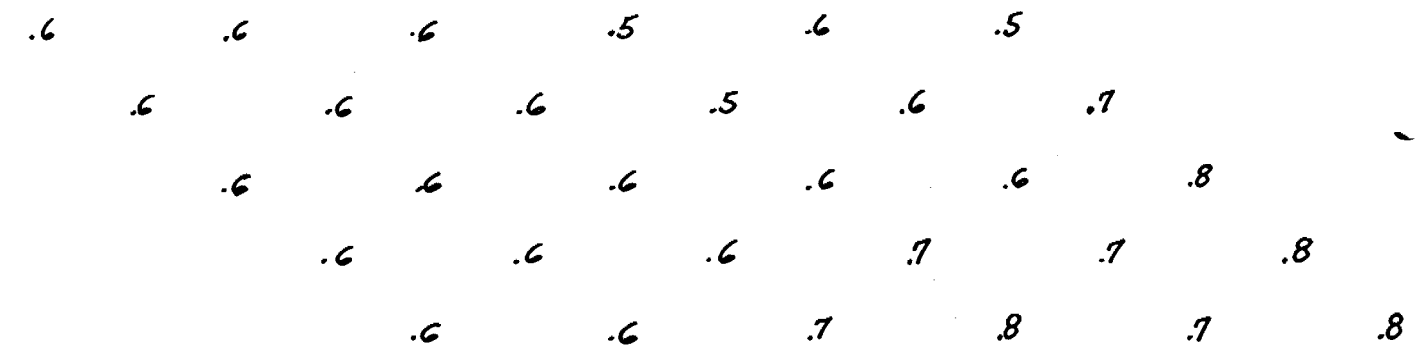
INDUCED POLARIZATION AND RESISTIVITY SURVEY

93N 95N 97N 99N 101N 103N 105N 107N 109N 111N 113N 115N 117N

RESISTIVITY (APP) IN

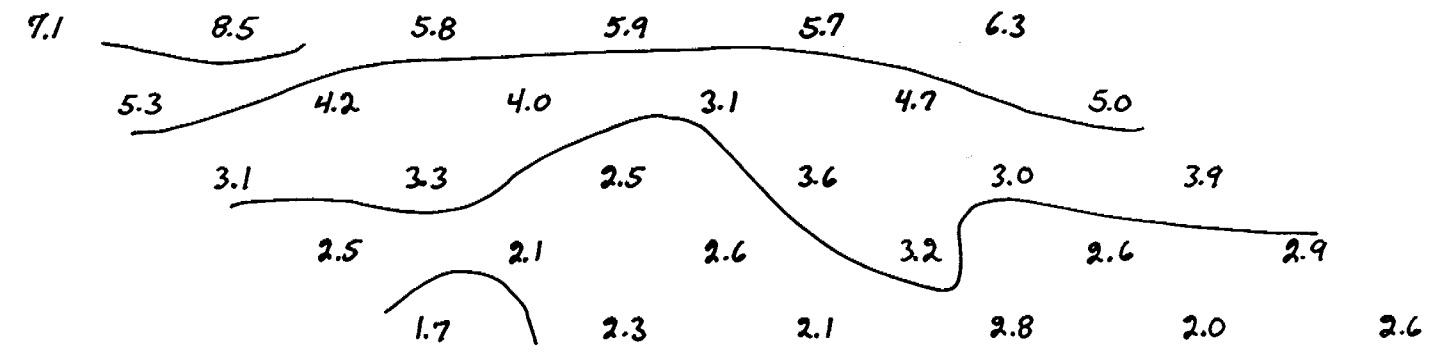


FREQUENCY EFFECT (A



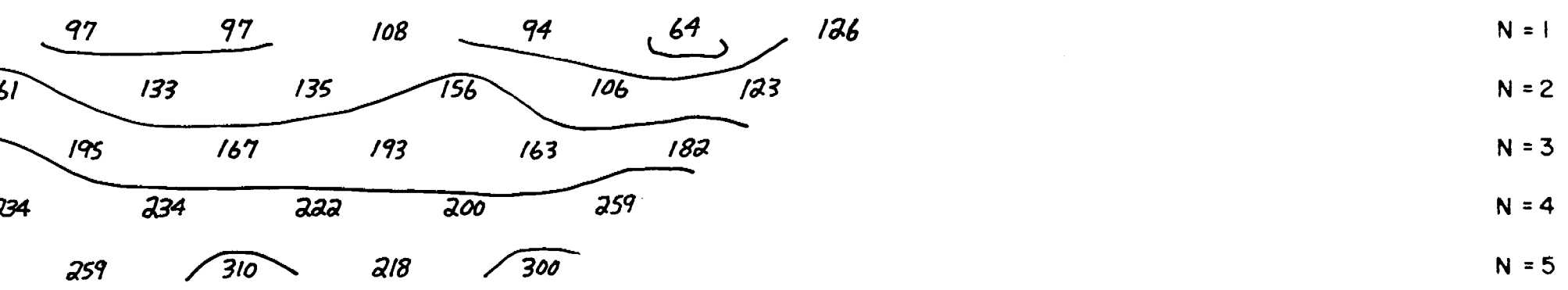
93N 95N 97N 99N 101N 103N 105N 107N 109N 111N 113N 115N 117N

METAL FACTOR (APP

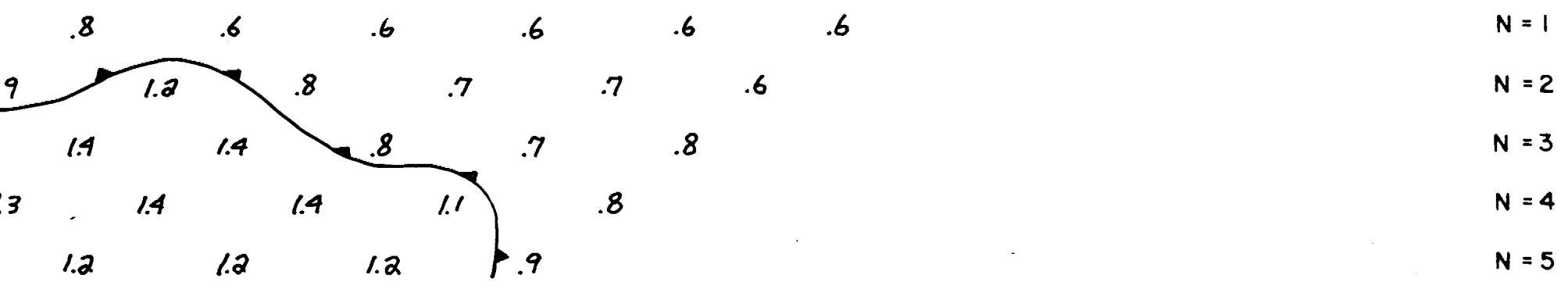


119N 121N 123N 125N 127N 129N 131N 133N

RESISTIVITY (APP) IN OHM FEET

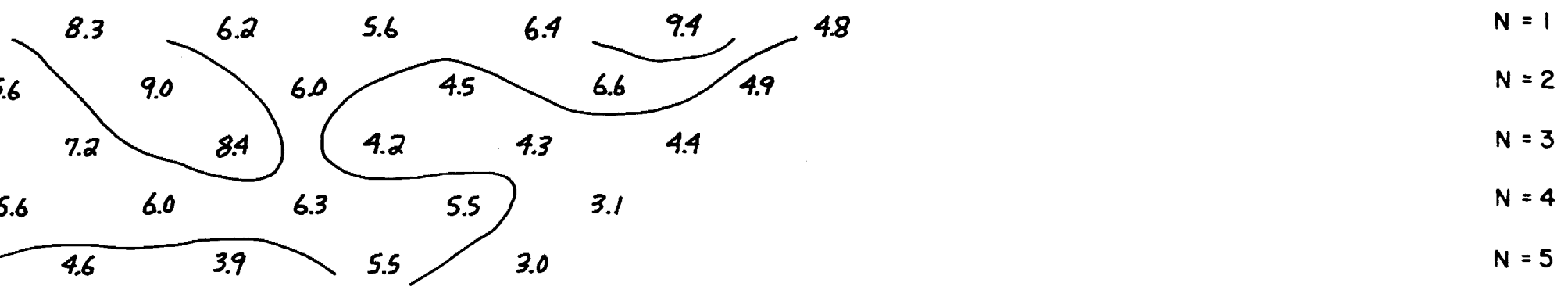


FREQUENCY EFFECT (APP) IN %



119N 121N 123N 125N 127N 129N 131N 133N

METAL FACTOR (APP)

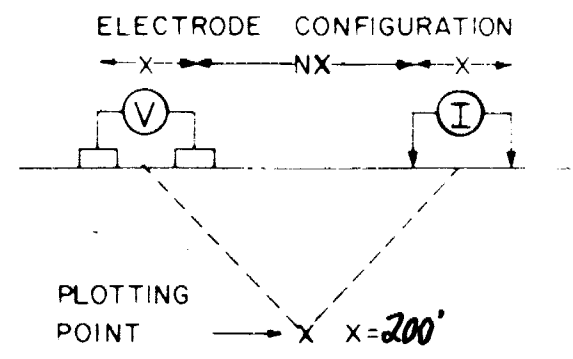


COMPANY: FALCONBRIDGE LTD.

PROPERTY: MICHAUD BLOCK PN 620

PERRY LAKE MATHESON ONTARIO

LINE NO - 380 E



63,4487

FREQUENCIES: 25840 HZ.

SURFACE PROJECTION OF ANOMALOUS ZONES

- DEFINITE
- PROBABLE
- POSSIBLE

NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1, 1.5, 2, 3, 5, 7.5, 100

INSTRUMENT : PHOENIX IPV-1 IPT-1

CONTRACTOR : REMY BELANGER ENRG

DATE SURVEYED

APPROVED

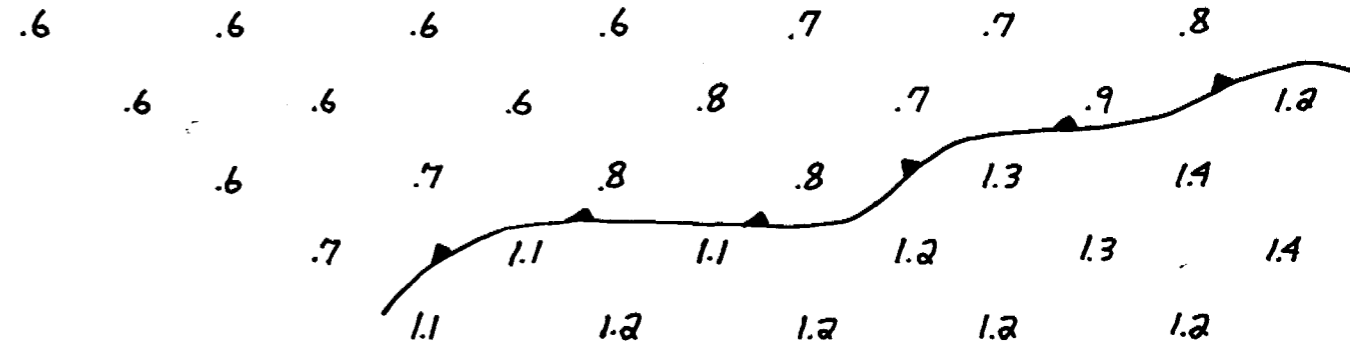
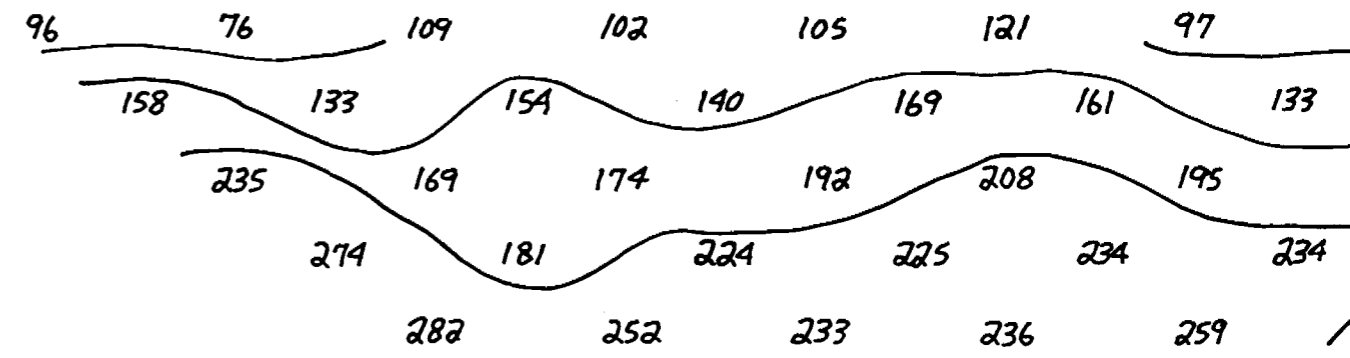
AUGUST-28-1984

OPERATOR GUY GELINAS

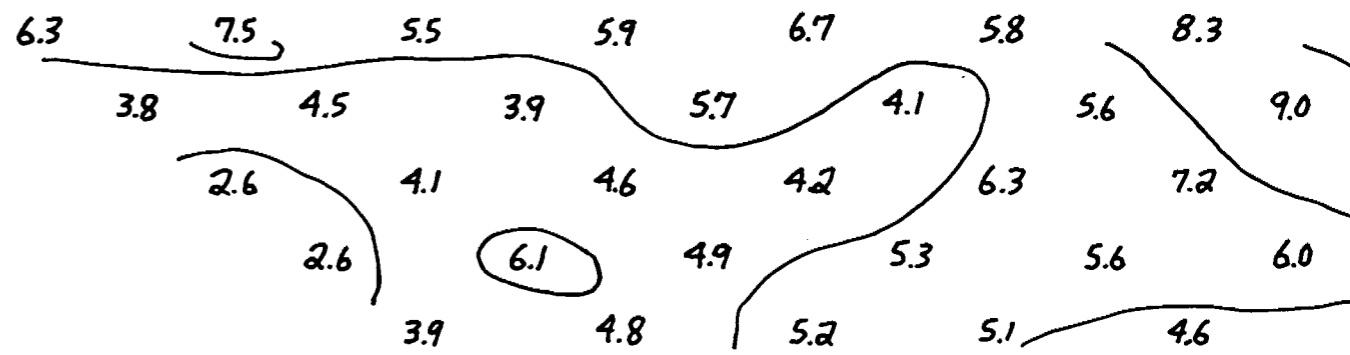
DATE _____

INDUCED POLARIZATION AND RESISTIVITY SURVEY

93N 95N 97N 99N 101N 103N 105N 107N 109N 111N 113N 115N 117N 119N 121N

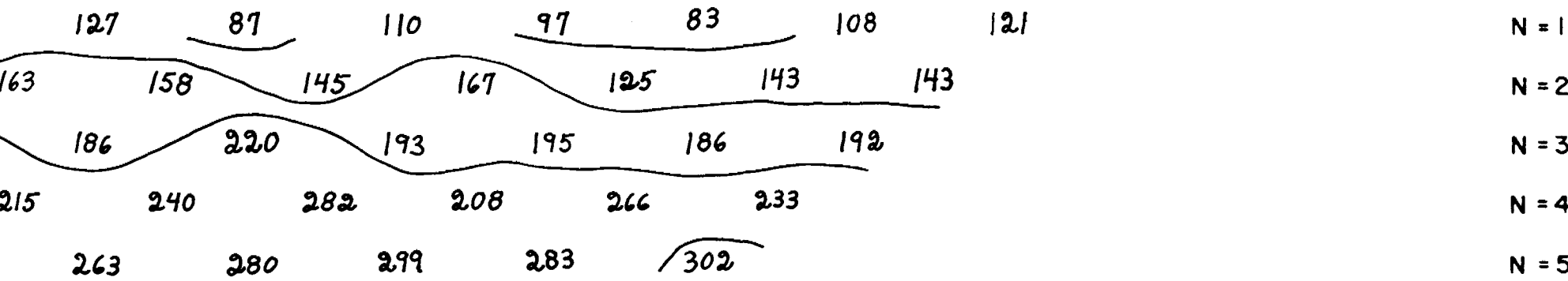


93N 95N 97N 99N 101N 103N 105N 107N 109N 111N 113N 115N 117N 119N 121N

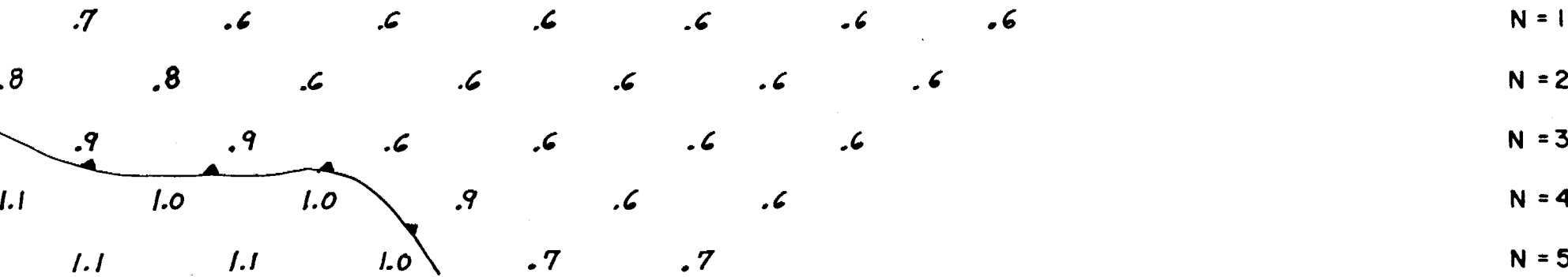


19N 121N 123N 125N 127N 129N 131N 133N 135N

RESISTIVITY (APP) IN OHM FEET

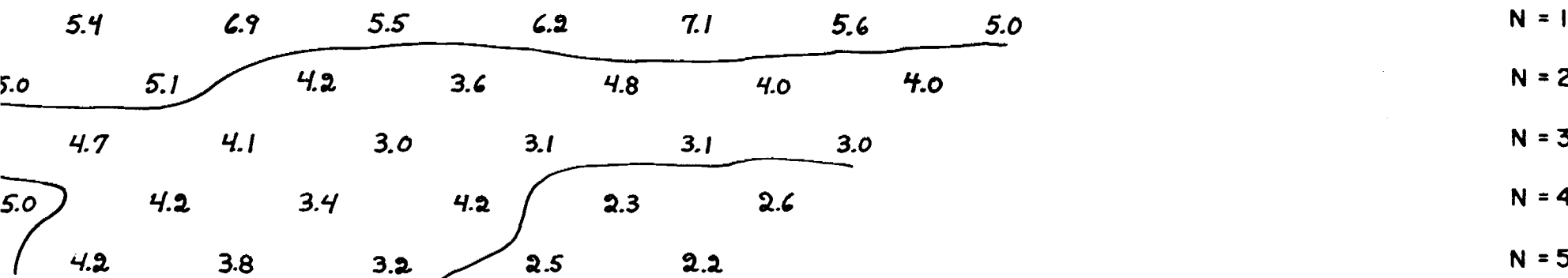


FREQUENCY EFFECT (APP) IN %



19N 121N 123N 125N 127N 129N 131N 133N 135N

METAL FACTOR (APP)

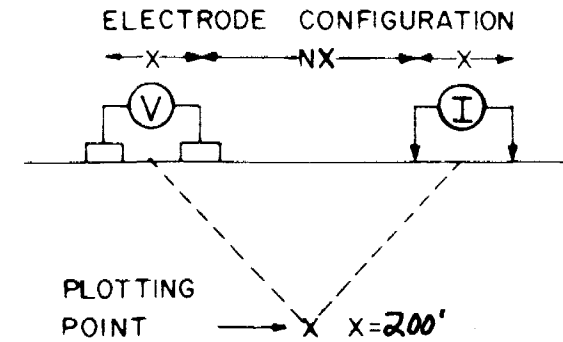


COMPANY: FALCONBRIDGE LTD.

PROPERTY: MICHAUD BLOCK PN 620

PERRY LAKE, MATHESON, ONTARIO

LINE NO. - 384 E



63,4487

FREQUENCIES: 25 & 40 HZ

SURFACE PROJECTION OF ANOMALOUS ZONES

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:

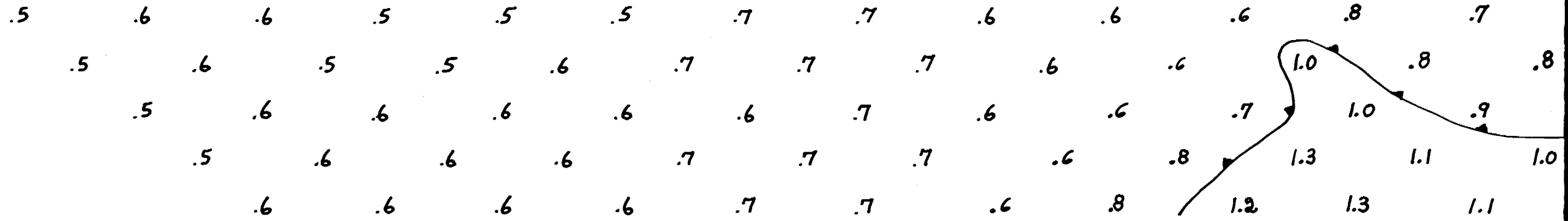
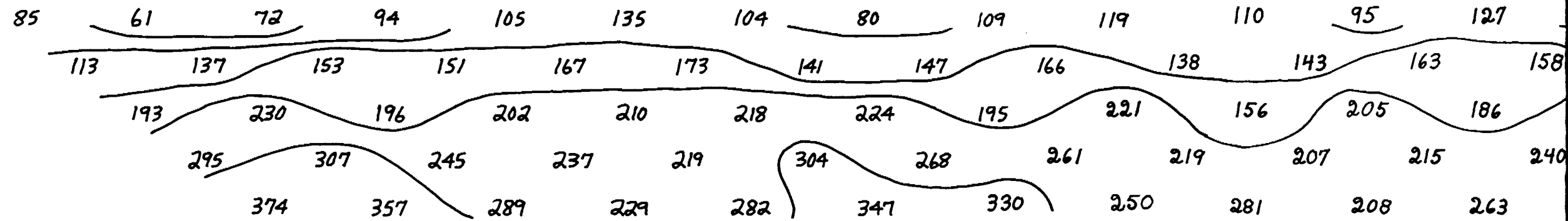
AUGUST-31-1984
SEPTEMBER-3-1984

OPERATOR GUY GELINAS

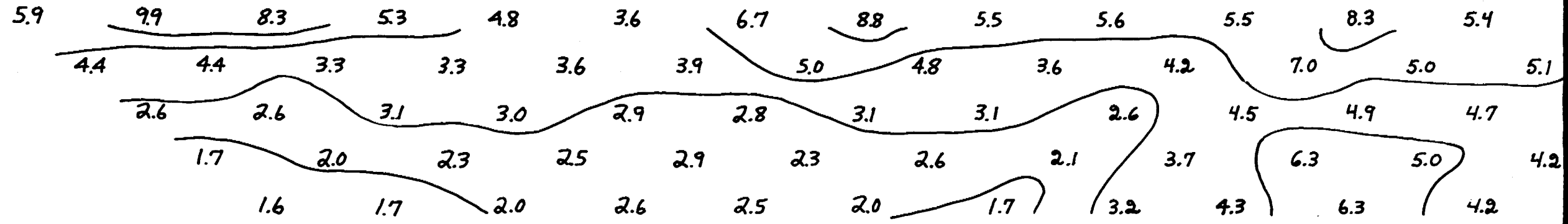
DATE: _____

INDUCED POLARIZATION AND RESISTIVITY SURVEY

93N 95N 97N 99N 101N 103N 105N 107N 109N 111N 113N 115N 117N 119N 121N

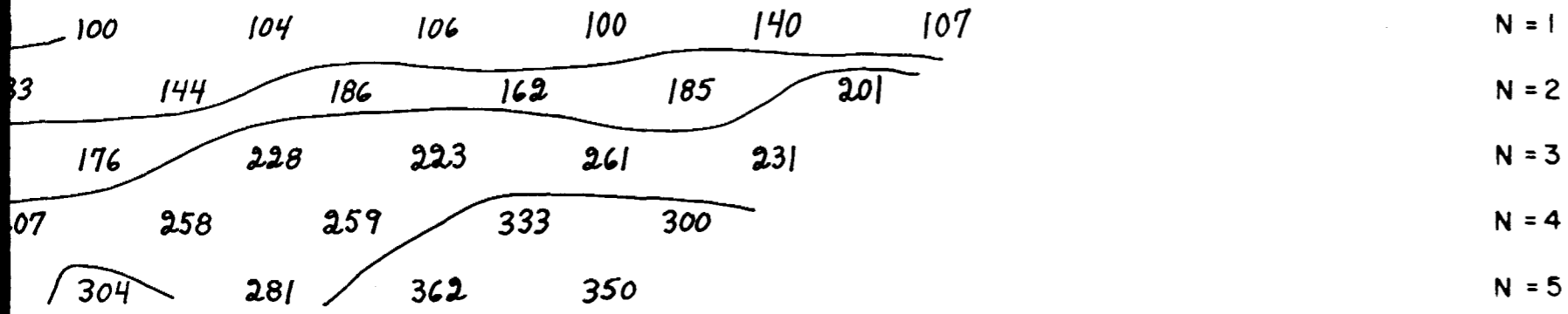


93N 95N 97N 99N 101N 103N 105N 107N 109N 111N 113N 115N 117N 119N 121N

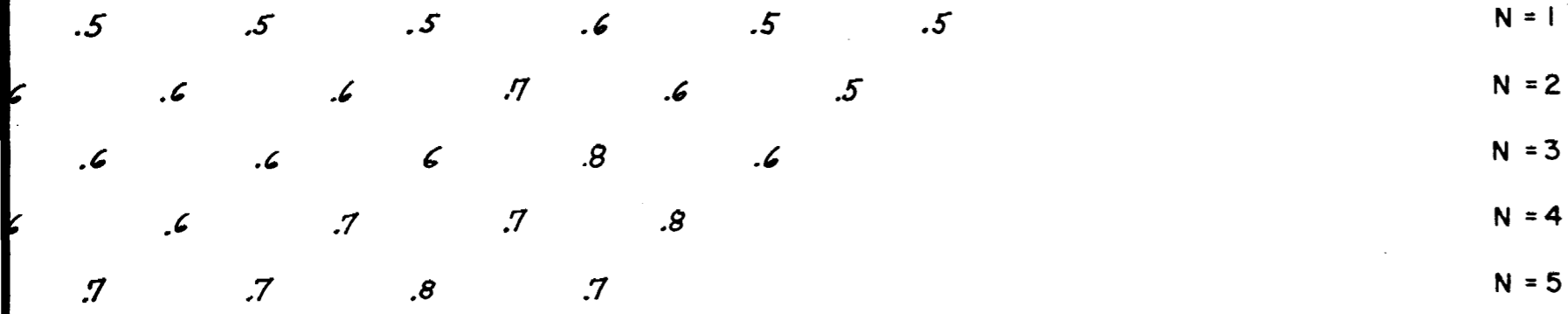


121N 123N 125N 127N 129N 131N 133N 135N

RESISTIVITY (APP) IN OHM FEET

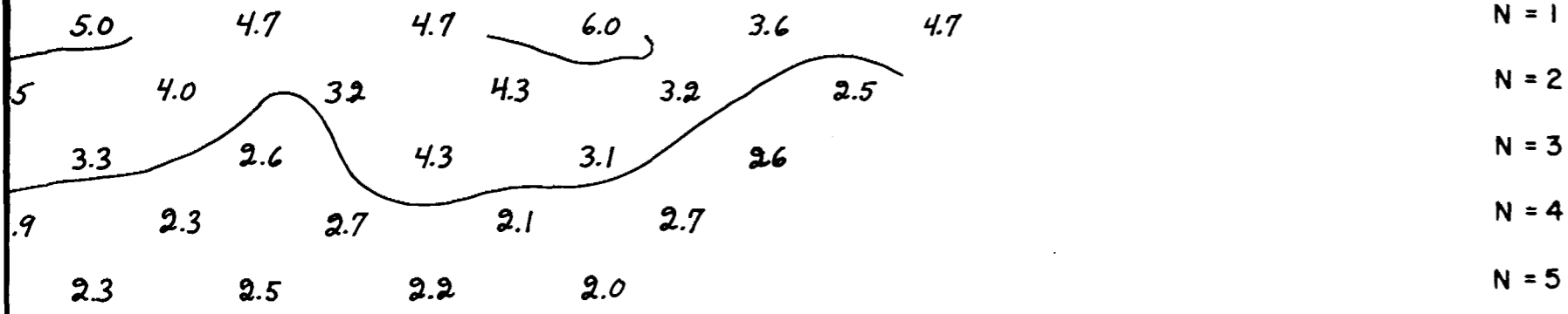


FREQUENCY EFFECT (APP) IN %



121N 123N 125N 127N 129N 131N 133N 135N

METAL FACTOR (APP)



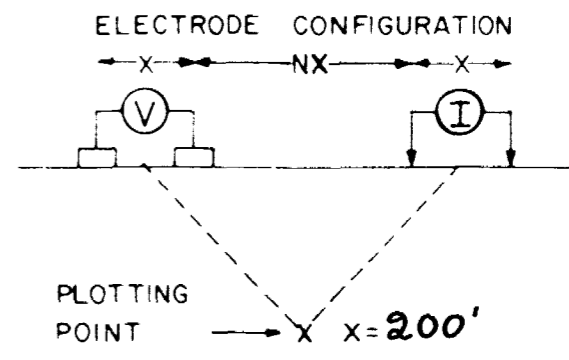
///CREEK

COMPANY: FALCONBRIDGE LTD

PROPERTY: MICHAUD BLOCK PN 620

PERRY LAKE, MATHESON, ONTARIO

LINE NO - 392E



63,4487

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
 IPT-1

CONTRACTOR : REMY BELANGER ENRG.

DATE SURVEYED : SEPTEMBER-2-3-1984

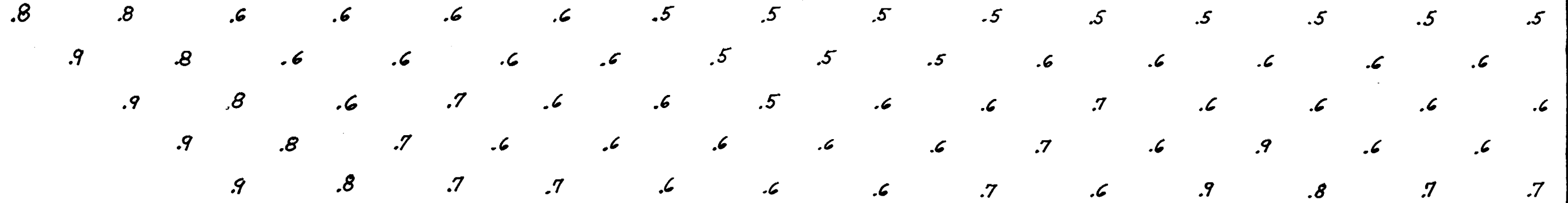
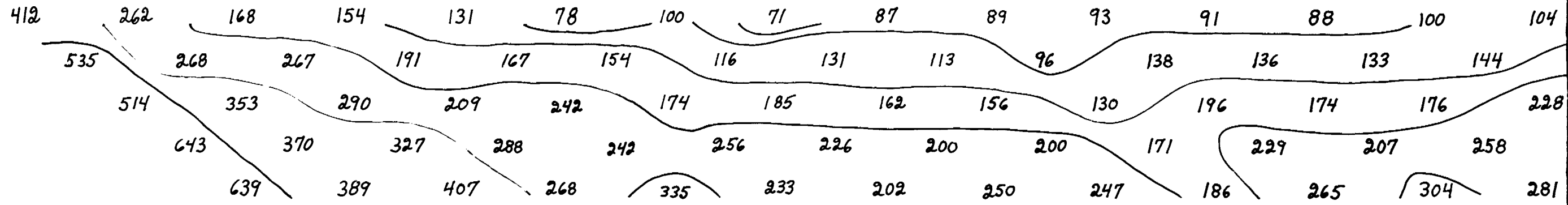
APPROVED : _____

OPERATOR GUY GELINAS

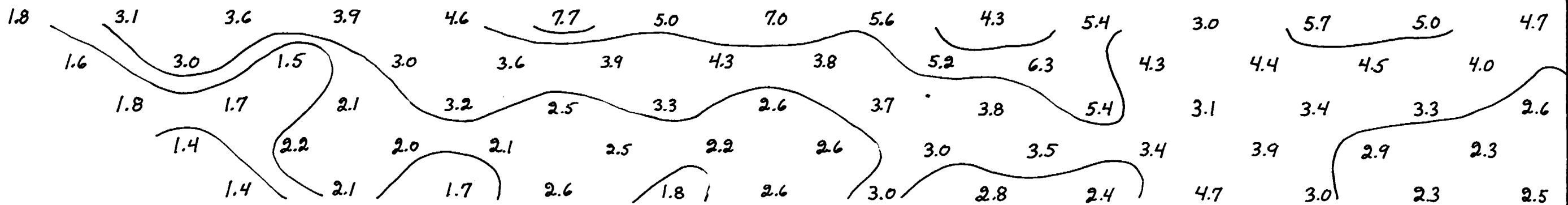
DATE: _____

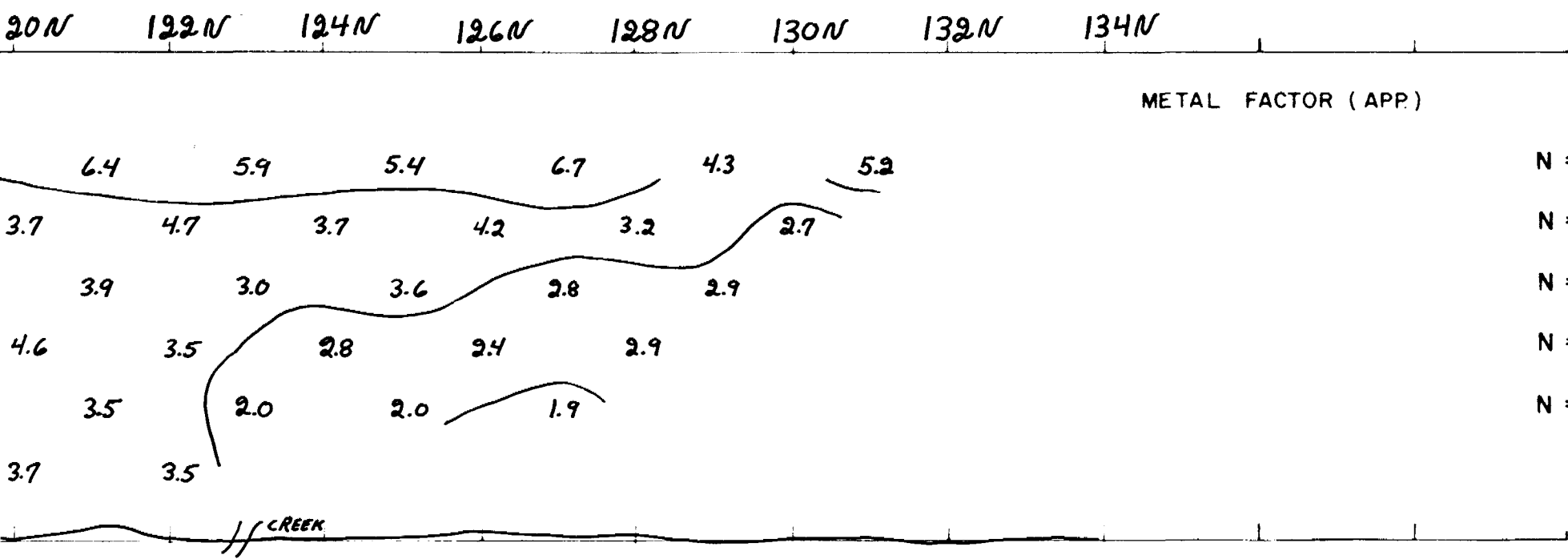
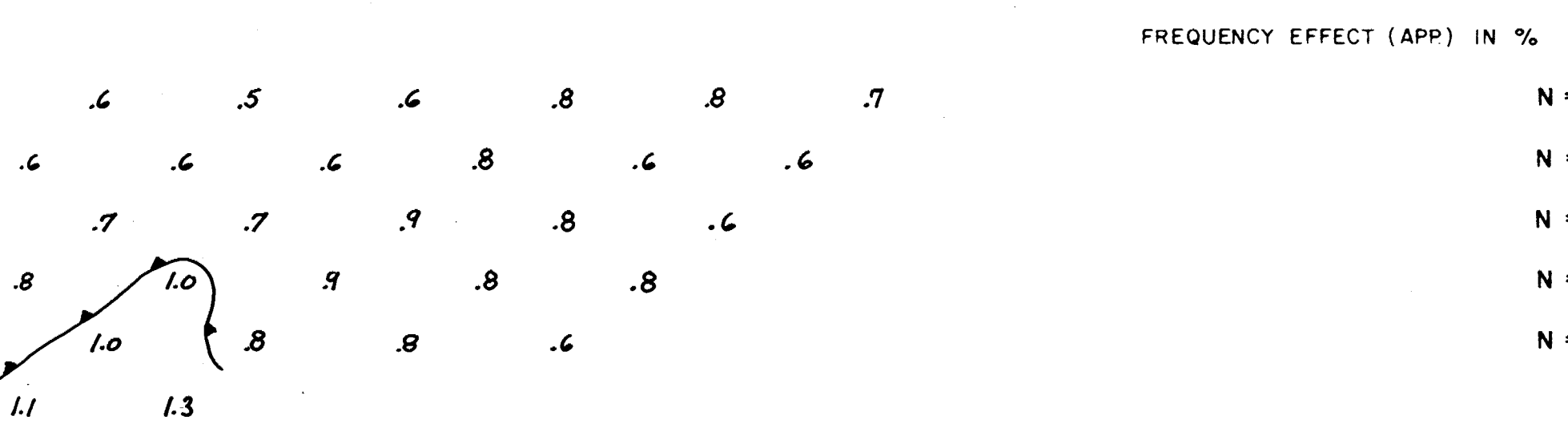
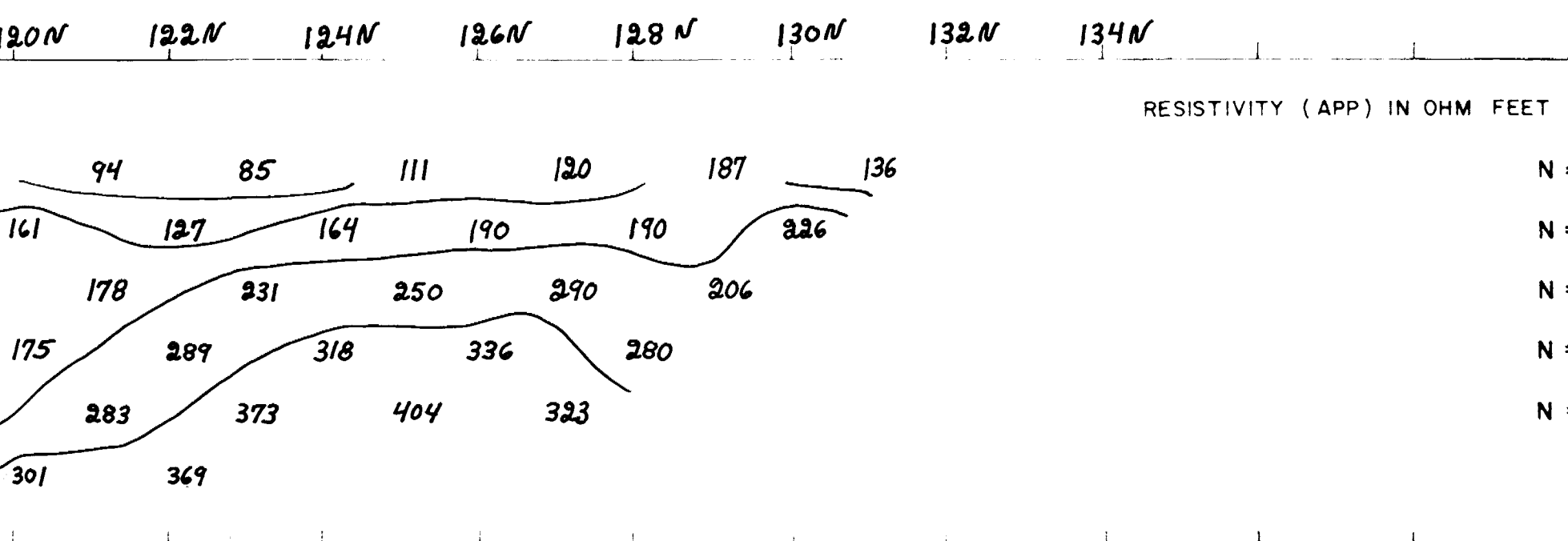
INDUCED POLARIZATION AND RESISTIVITY SURVEY

93N 95N 97N 99N 101N 103N 105N 107N 109N 111N 113N 115N 117N 119N 121N 123N



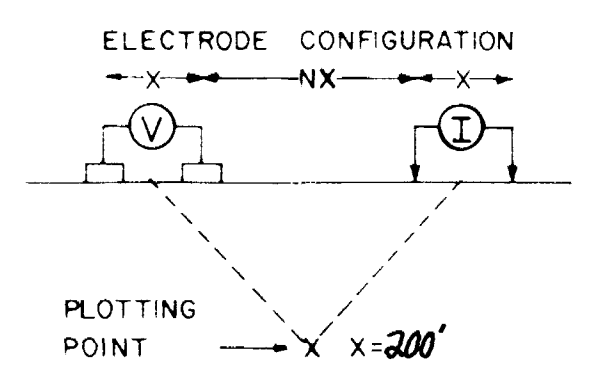
93N 95N 97N 99N 101N 103N 105N 107N 109N 111N 113N 115N 117N 119N 121N 123N





COMPANY: FALCONBRIDGE LTD.
 PROPERTY: MICHAUD BLOCK PN 620
PERRY LAKE, MATHESON, ONTARIO

LINE NO. - 398 E



63.4487

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
 IPT-1
 CONTRACTOR : REMY BELANGER ENRG.

DATE SURVEYED: SEPTEMBER-1-1984

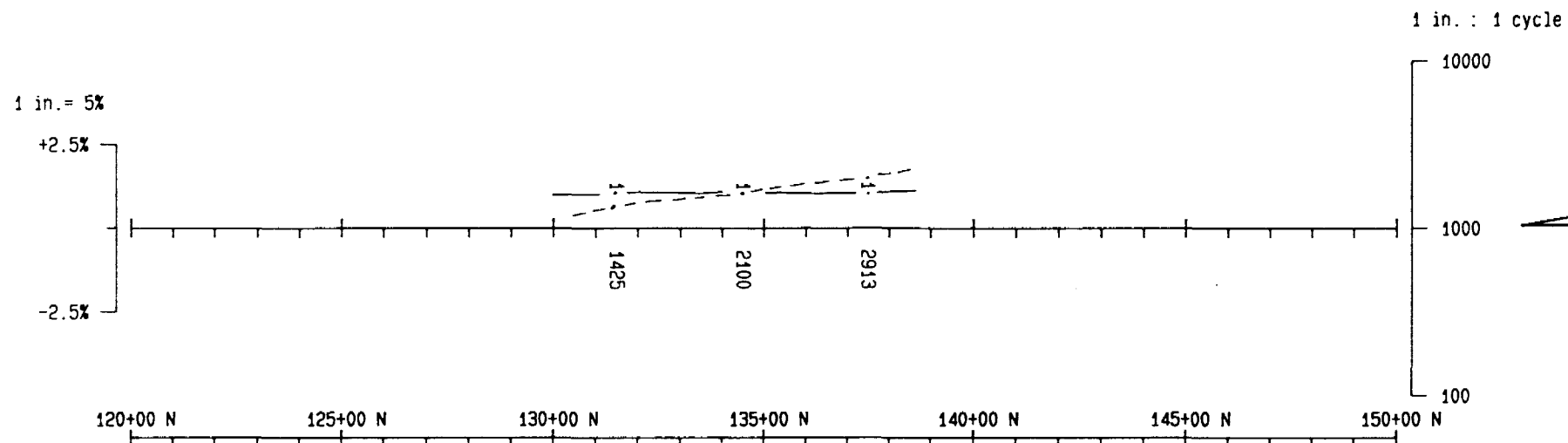
APPROVED: _____

OPERATOR GUY GELINAS

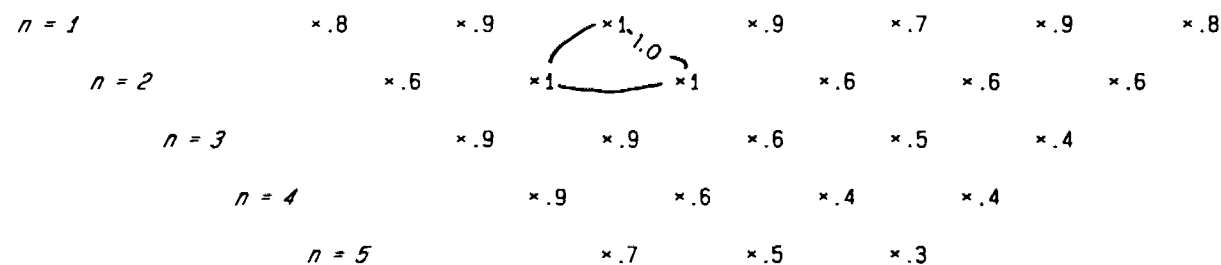
DATE: _____

INDUCED POLARIZATION AND RESISTIVITY SURVEY

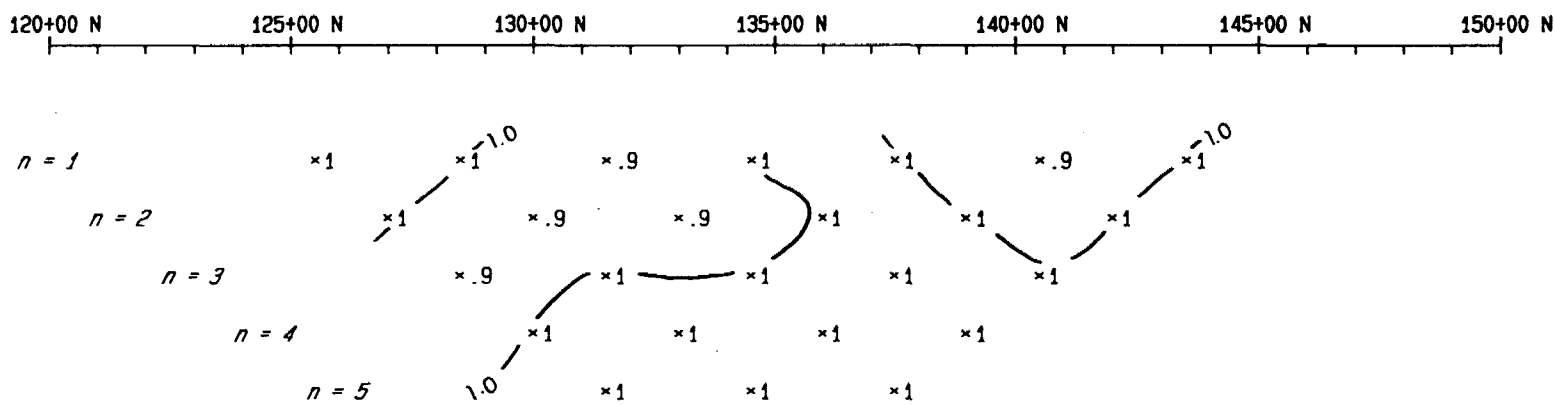
L-244+00 E
5th SEP.



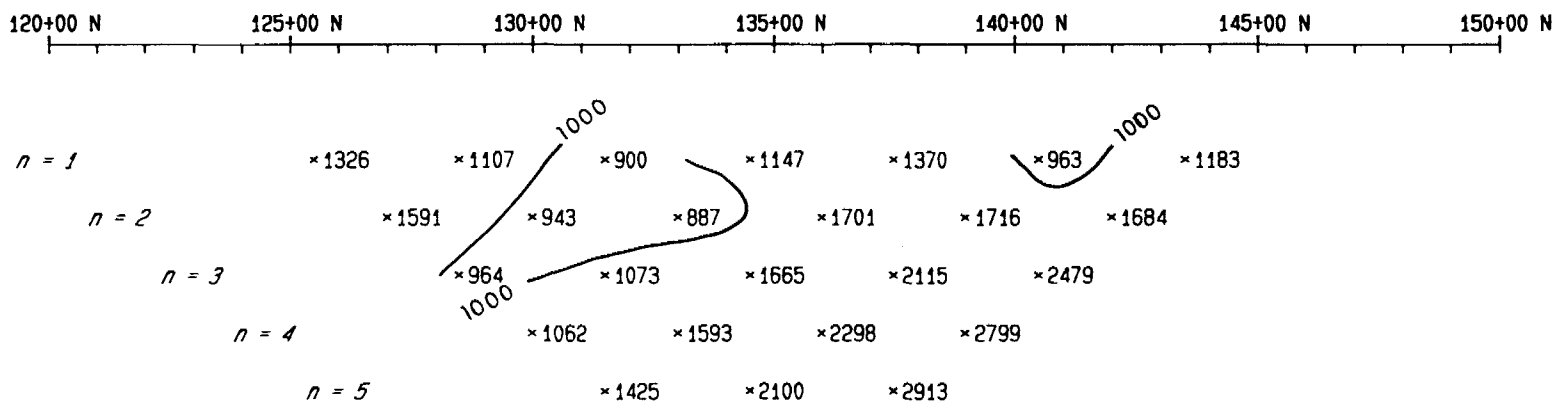
L-244+00 E
METAL FACTOR
(Ef/Res. * 1000%)



L-244+00 E
FREQUENCY EFFECT



L-244+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)



FALCONBRIDGE LIMITED

MICHAUD TOWNSHIP

INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

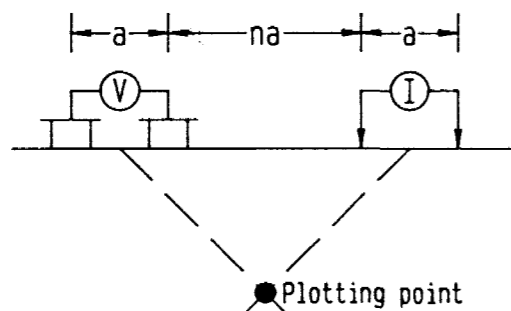
Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet
Separation between dipole : n = 1, 2, 3, 4, 5

63,4487

CONFIGURATION OF ELECTRODES



Operators: G. Beier

L-244+00 E

BY : GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

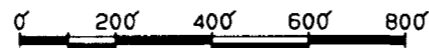
INTERPRETED BY :

DRAWN BY : J. Proulx, Tech. July 1984

N.T.S.: 42A/B PLAN NO : 84-975-01

GARRISON CREEK
Michaud twp., Ontario

Scale : 1" = 400'

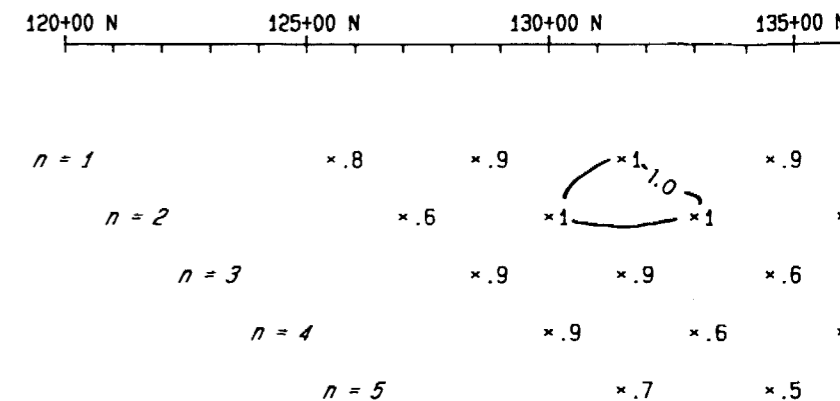


L-244+00 E
5th SEP.

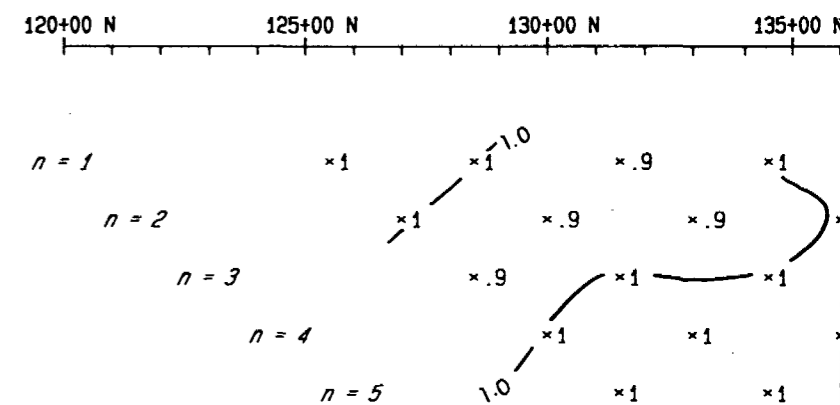
1 in. = 5%



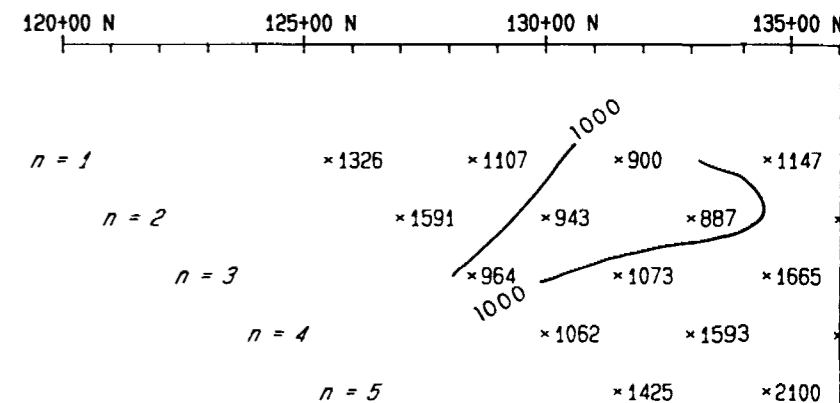
L-244+00 E
METAL FACTOR
(Ef/Res. * 1000%)



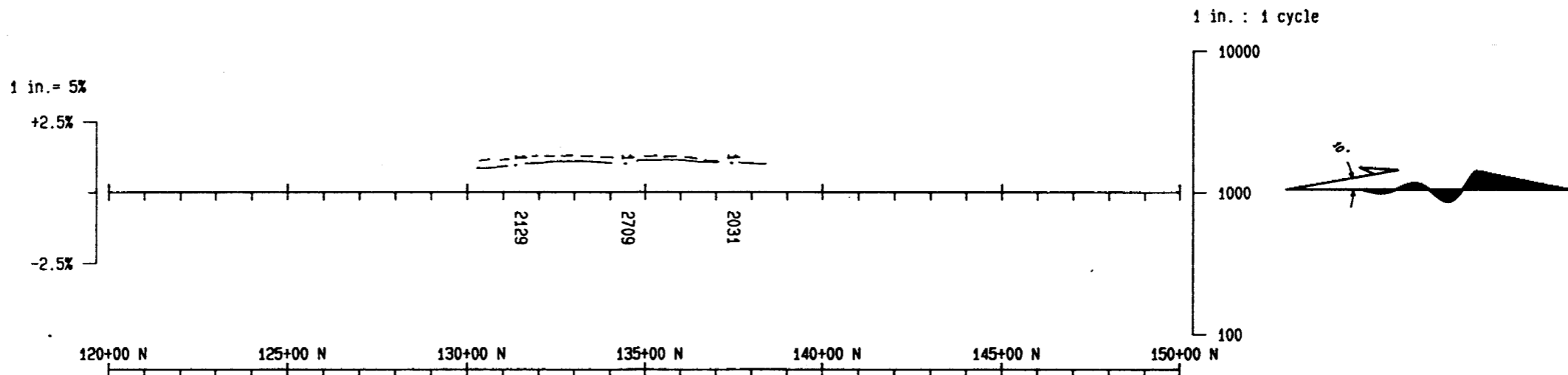
L-244+00 E
FREQUENCY EFFECT



L-244+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)



L-250+00 E
5th SEP.



L-250+00 E
METAL FACTOR
(Ef/Res. * 1000%)

	120+00 N	125+00 N	130+00 N	135+00 N	140+00 N	145+00 N	150+00 N
n = 1		*.6	*.6	*.8	*.6	*.7	*.6
n = 2			*.4	*.5	*.5	*.4	*.6
n = 3				*.4	*.4	*.4	*.5
n = 4					*.5	*.4	*.5
n = 5						*.5	*.5

L-250+00 E
FREQUENCY EFFECT

	120+00 N	125+00 N	130+00 N	135+00 N	140+00 N	145+00 N	150+00 N
n = 1		*1	*1	*1	*1	*1	*1
n = 2			*1	*1	*1	*1	*1
n = 3				*1	*1	*1	*1
n = 4					*1	*1	*1
n = 5						*1	*1

L-250+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)

	120+00 N	125+00 N	130+00 N	135+00 N	140+00 N	145+00 N	150+00 N
n = 1		*1800	*1733	*1278	*1666	*1504	*1621
n = 2			*2599	*1944	*1962	*2498	*1800
n = 3				*2610	*2448	*2389	*2052
n = 4					*2055	*2563	*2322
n = 5						*2196	*2196

FALCONBRIDGE LIMITED

MICHAUD TOWNSHIP

INDUCED POLARIZATION SURVEY

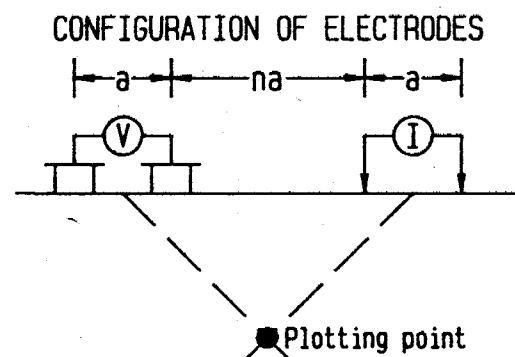
Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet

Separation between dipole : n = 1, 2, 3, 4, 5



Operators: G. Beier

63.4487

L-250+00 E

BY : GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

INTERPRETED BY :

DRAWN BY : J. Proulx, Tech. July 1984

N.T.S.: 42A/B PLAN NO : 84-975-02

GARRISON CREEK
Michaud twp., Ontario
Scale : 1" = 400'
0 200 400 600 800

L-250+00 E
5th SEP.

1 in. = 5%

+2.5%
-2.5%

120+00 N 125+00 N 130+00 N 135+00 N

L-250+00 E
METAL FACTOR
(Ef/Res. * 1000%)

n = 1	x.6	x.6	x.8	x.
n = 2		x.4	x.5	x.5
n = 3			x.4	x.
n = 4			x.5	x.4
n = 5			x.5	x.

L-250+00 E
FREQUENCY EFFECT

120+00 N 125+00 N 130+00 N 135+00 N

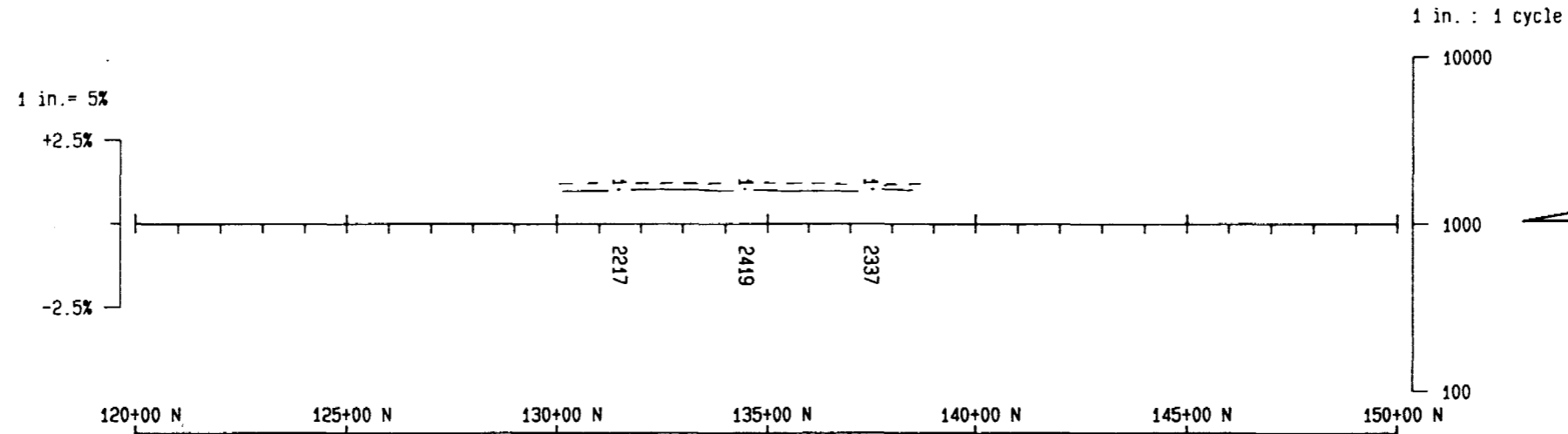
n = 1	x1	x1	x1	x.
n = 2		x1	x1	x1
n = 3			x1	x1
n = 4			x1	x1
n = 5			x1	x.

L-250+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)

120+00 N 125+00 N 130+00 N 135+00 N

n = 1	x1800	x1733	x1278	x.
n = 2		x2599	x1944	x1962
n = 3			x2610	x2448
n = 4			x2055	x2563
n = 5			x2129	x.

L-256+00 E
5th SEP.



L-256+00 E
METAL FACTOR
(Ef/Res. * 1000%)

	120+00 N	125+00 N	130+00 N	135+00 N	140+00 N	145+00 N	150+00 N
n = 1		*.7	*.7	*.8	*.5	*.5	*.8
n = 2			*.5	*.6	*.6	*.7	*.4
n = 3				*.4	*.4	*.4	*.3
n = 4				*.4	*.4	*.4	*.3
n = 5				*.5	*.4	*.4	

L-256+00 E
FREQUENCY EFFECT

	120+00 N	125+00 N	130+00 N	135+00 N	140+00 N	145+00 N	150+00 N
n = 1		*1	*1	*1	*1	*1	*1
n = 2			*1	*1	*1	*1	*1
n = 3				*1	*1	*1	
n = 4				*1	*1	*1	
n = 5				*1	*1	*1	

L-256+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)

	120+00 N	125+00 N	130+00 N	135+00 N	140+00 N	145+00 N	150+00 N
n = 1		*1494	*1350	*1224	*1894	*1998	*1314
n = 2			*1882	*1728	*1661	*1440	*2556
n = 3				*2493	*2412	*2304	*2772
n = 4				*2349	*2538	*2808	*2880
n = 5				*2217	*2419	*2337	

FALCONBRIDGE LIMITED

MICHAUD TOWNSHIP

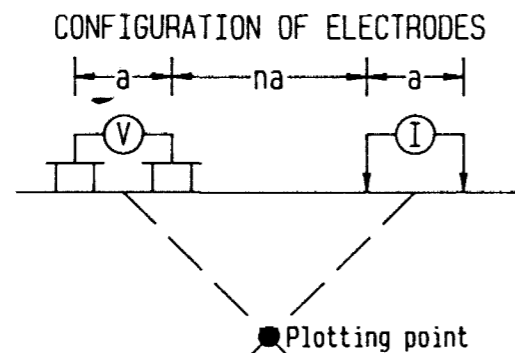
INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet
Separation between dipole : n = 1, 2, 3, 4, 5



Operators: G. Beier

63,4487

L-256+00 E

BY : GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

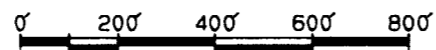
INTERPRETED BY :

DRAWN BY : J. Proulx, Tech. July 1984

N.T.S.: 42A/B PLAN NO : 84-975-03

GARRISON CREEK
Michaud twp., Ontario

Scale : 1" = 400'

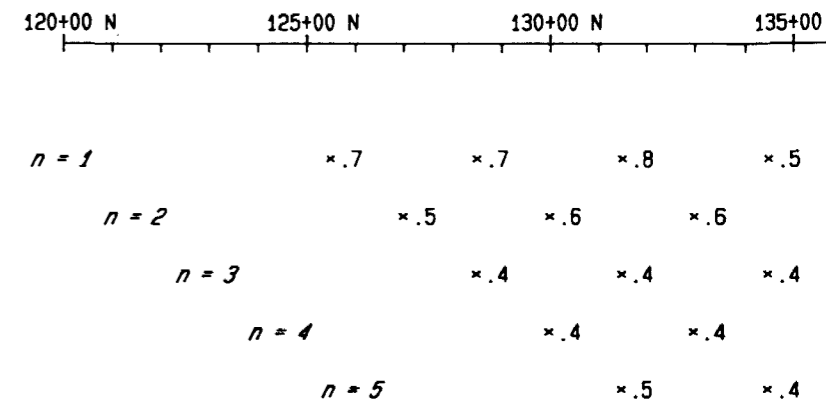


L-256+00 E
5th SEP.

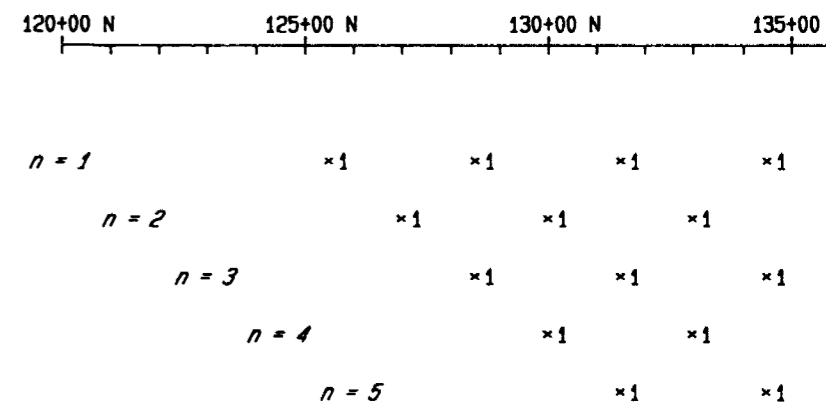
1 in. = 5%



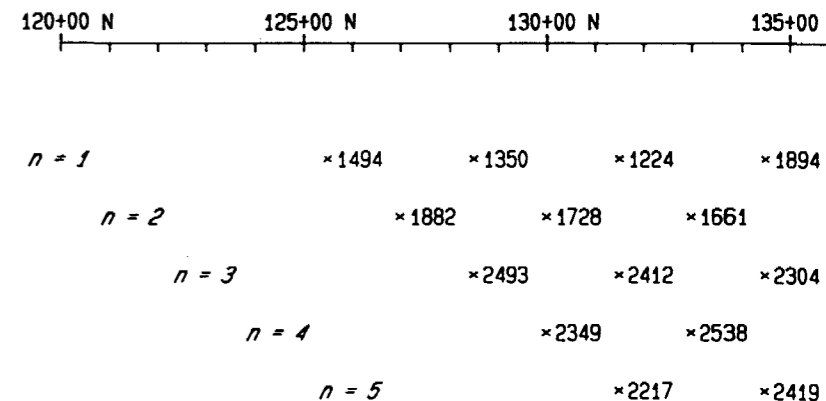
L-256+00 E
METAL FACTOR
(E_f/Res. * 1000%)



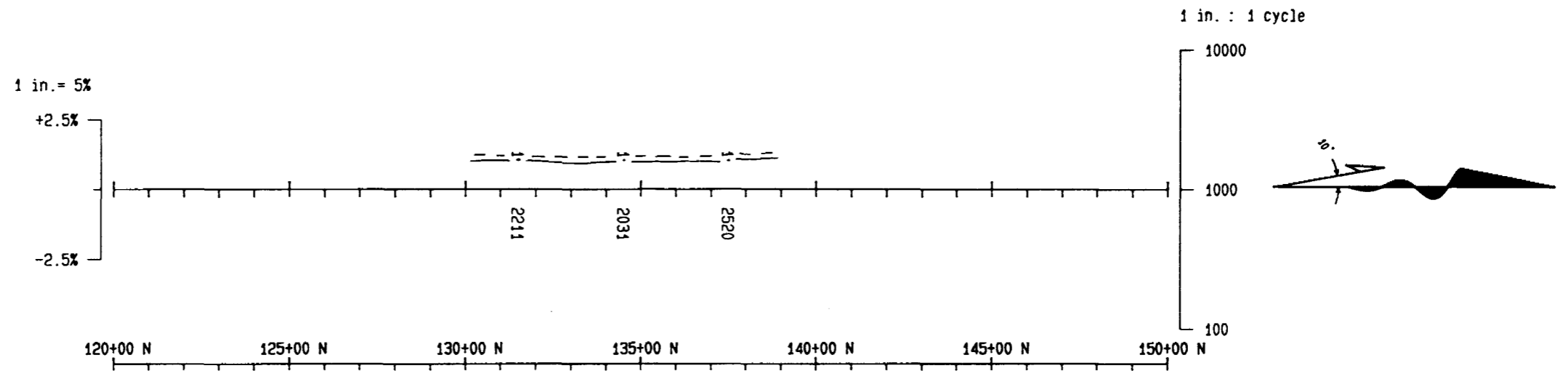
L-256+00 E
FREQUENCY EFFECT



L-256+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)



L-262+00 E
5th SEP.



L-262+00 E
METAL FACTOR
(Ef/Res. * 1000%)

	120+00 N	125+00 N	130+00 N	135+00 N	140+00 N	145+00 N	150+00 N
n = 1		*.6	*.5	*.5	*.4	*.5	*.5
n = 2			*.6	*.6	*.5	*.5	*.5
n = 3				*.4	*.4	*.4	*.4
n = 4					*.4	*.4	*.4
n = 5						*.5	*.4

L-262+00 E
FREQUENCY EFFECT

	120+00 N	125+00 N	130+00 N	135+00 N	140+00 N	145+00 N	150+00 N
n = 1		*1	*1	*1	*1	*1	*1
n = 2			*1	*1	*1	*1	*1
n = 3				*1	*1	*1	*1
n = 4					*1	*1	*1
n = 5						*1	*1

L-262+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)

	120+00 N	125+00 N	130+00 N	135+00 N	140+00 N	145+00 N	150+00 N
n = 1		*1800	*1890	*1899	*2259	*1822	*1953
n = 2			*1749	*1710	*1893	*2073	*2160
n = 3				*2547	*2439	*2727	*2700
n = 4					*2232	*2754	*2772
n = 5						*2700	*2700
							*2211
							*2031
							*2520

FALCONBRIDGE LIMITED

MICHAUD TOWNSHIP

INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

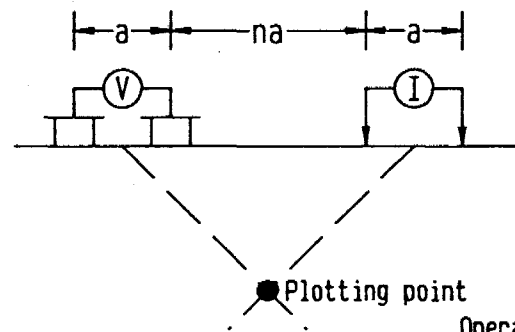
Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet

Separation between dipole : n = 1, 2, 3, 4, 5

CONFIGURATION OF ELECTRODES



Operators: G. Beier

63.4487

L-262+00 E

L-262+00 E
5th SEP.

L-262+00 E
METAL FACTOR
(Ef/Res. * 1000%)

L-262+00 E
FREQUENCY EFFECT

L-262+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)

1 in. = 5%

+2.5%
-2.5%

120+00 N 125+00 N 130+00 N 135+00 N

n = 1	*.6	*.5	*.5	*.4
n = 2		*.6	*.6	*.5
n = 3			*.4	*.4
n = 4				*.4
n = 5				*.5

120+00 N 125+00 N 130+00 N 135+00 N

n = 1	*1	*1	*1	*1
n = 2		*1	*1	*1
n = 3			*1	*1
n = 4				*1
n = 5				*1

120+00 N 125+00 N 130+00 N 135+00 N

n = 1	*1800	*1890	*1899	*2
n = 2		*1749	*1710	*1893
n = 3			*2547	*2439
n = 4				*2232
n = 5				*2211

BY :

GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

INTERPRETED BY :

DRAWN BY : J. Proulx, Tech. July 1984

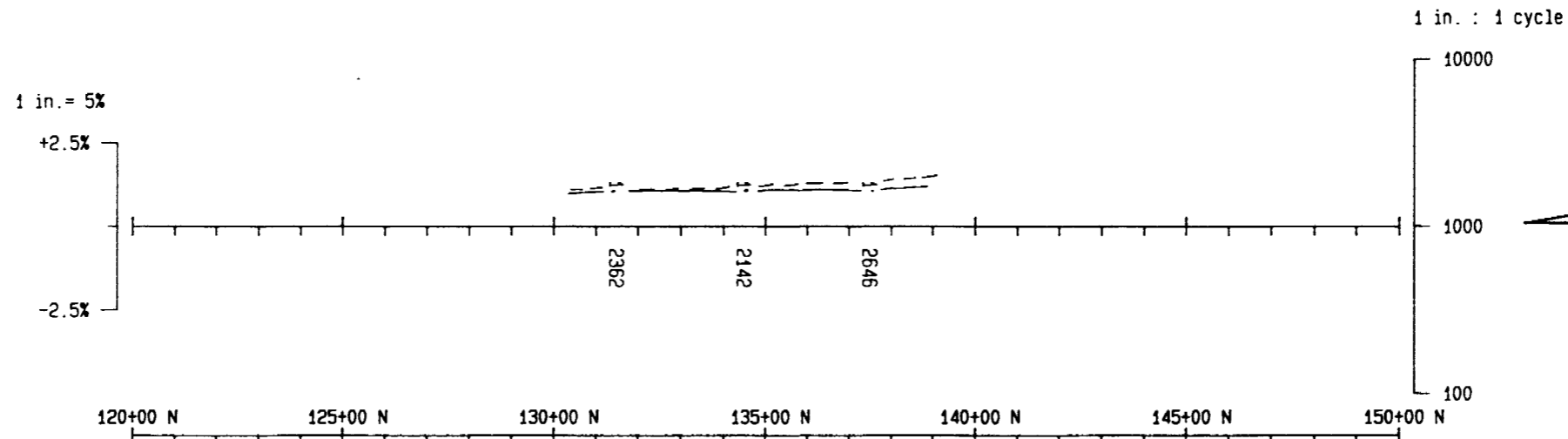
N.T.S.: 42A/B PLAN NO : 84-975-04

GARRISON CREEK
Michaud tmp., Ontario

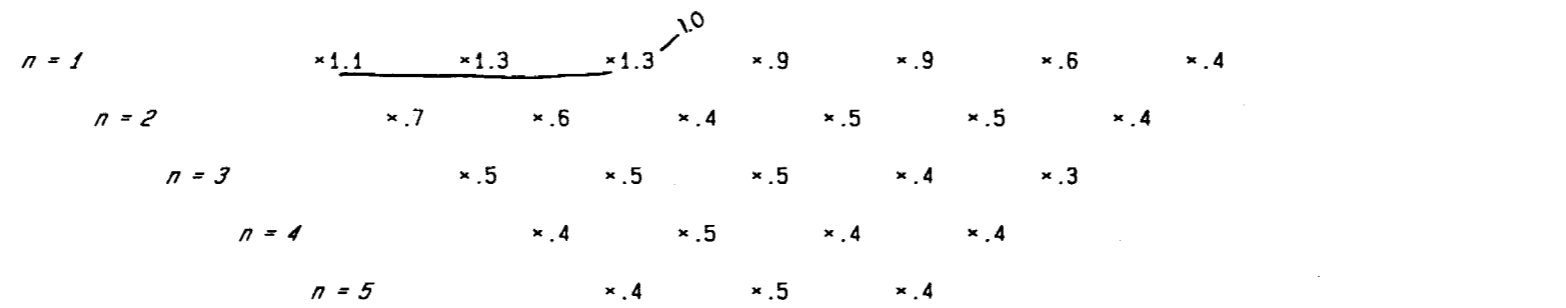
Scale : 1" = 400'

0 200 400 600 800

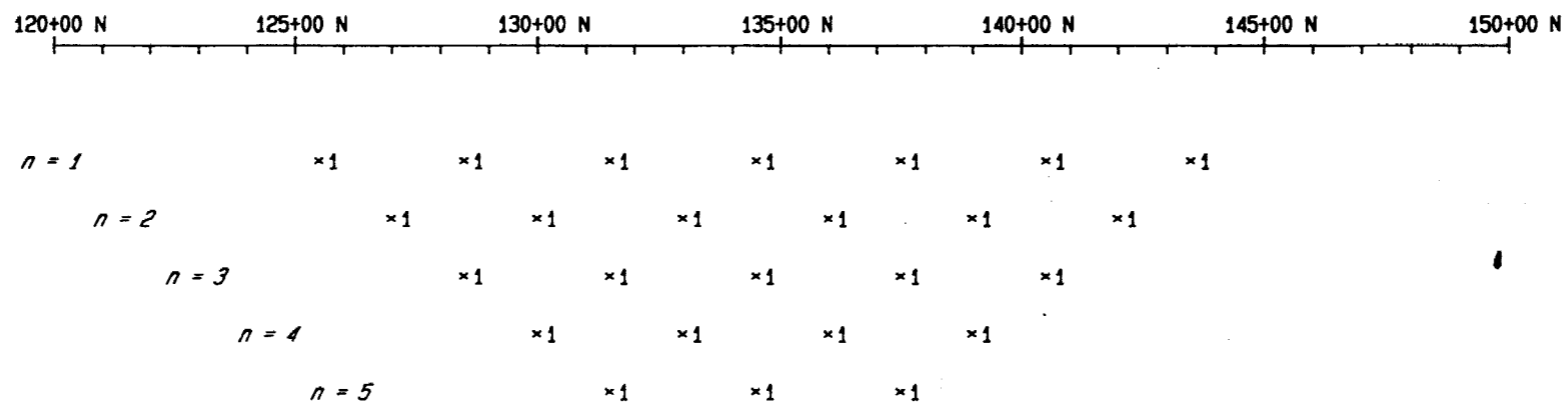
L-268+00 E
5th SEP.



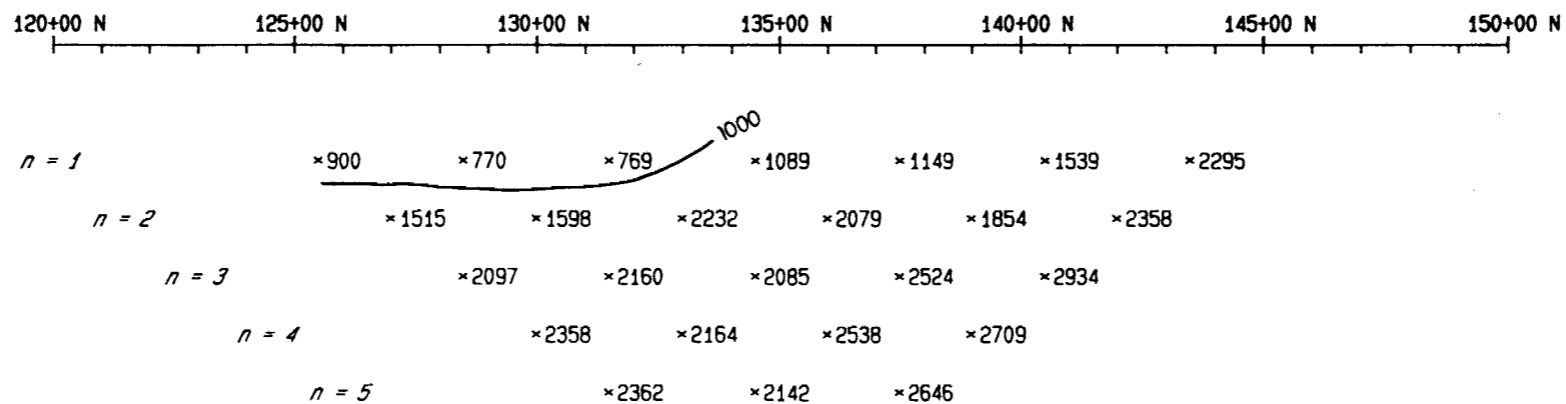
L-268+00 E
METAL FACTOR
(Ef/Res. * 1000%)



L-268+00 E
FREQUENCY EFFECT



L-268+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)



FALCONBRIDGE LIMITED

MICHAUD TOWNSHIP

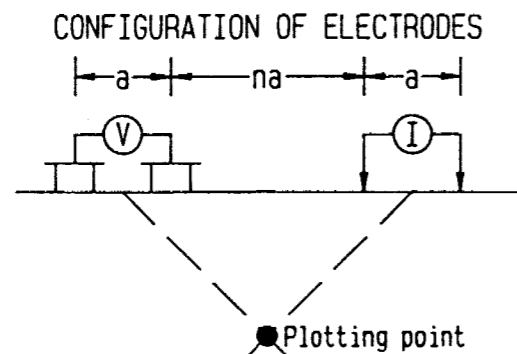
INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : $a = 300$ feet
Separation between dipole : $n = 1, 2, 3, 4, 5$



Operators: *G. Beier*

63.4487

L-268+00 E

BY :	GÉOLA LTÉE	
EXECUTED BY :	<i>G. Beier</i>	<i>May 1984</i>
INTERPRETED BY :		
DRAWN BY :	<i>J. Proulx, Tech.</i>	<i>July 1984</i>
N.T.S.:	<i>42A/B</i>	PLAN NO : 84-975-05

GARRISON CREEK
Michaud twp., Ontario

Scale : 1" = 400'

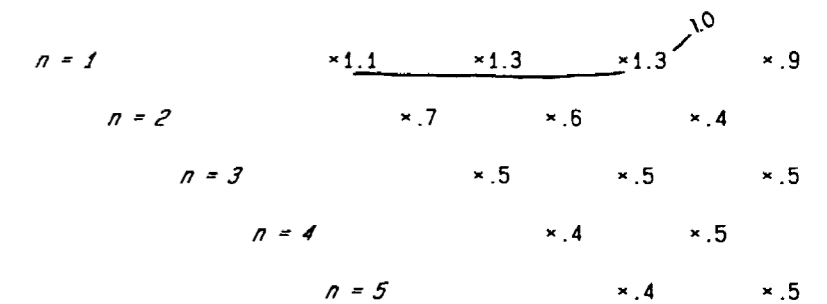
0 200 400 600 800

L-268+00 E
5th SEP.

1 in. = 5%
+2.5%
-2.5%

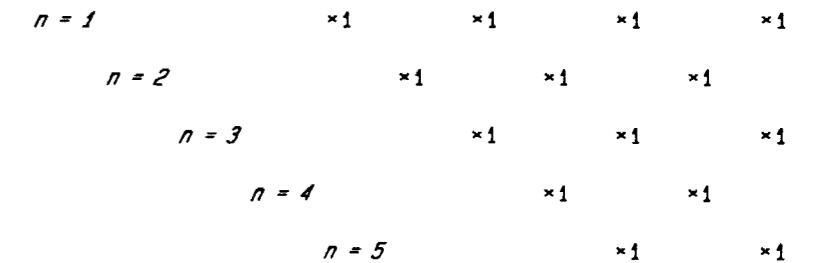
120+00 N 125+00 N 130+00 N 135+00

L-268+00 E
METAL FACTOR
($E_f/Res. \times 1000\%$)



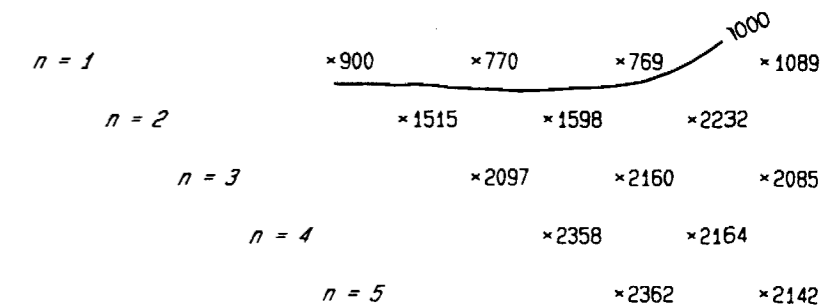
L-268+00 E
FREQUENCY EFFECT

120+00 N 125+00 N 130+00 N 135+00

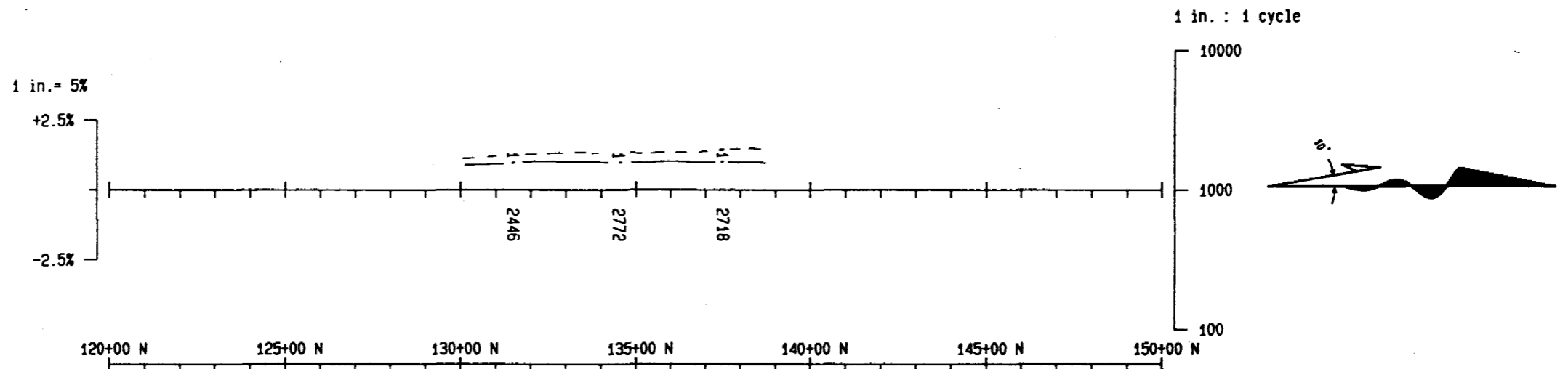


L-268+00 E
RESISTIVITY
($\rho_a/2\pi$, Ohm-metres)

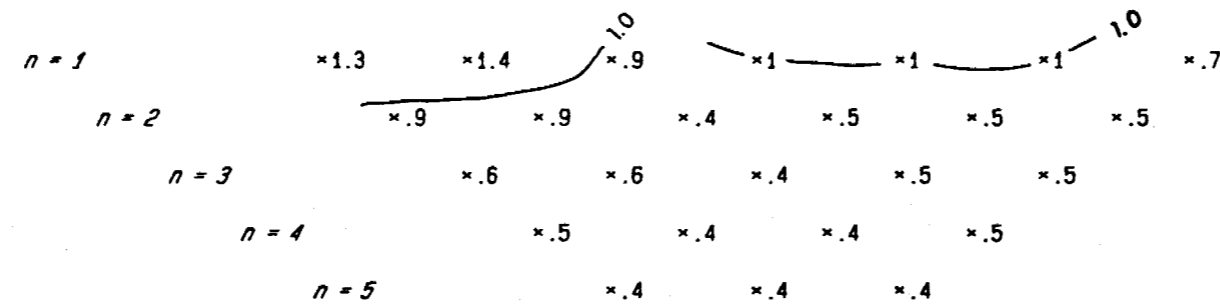
120+00 N 125+00 N 130+00 N 135+00



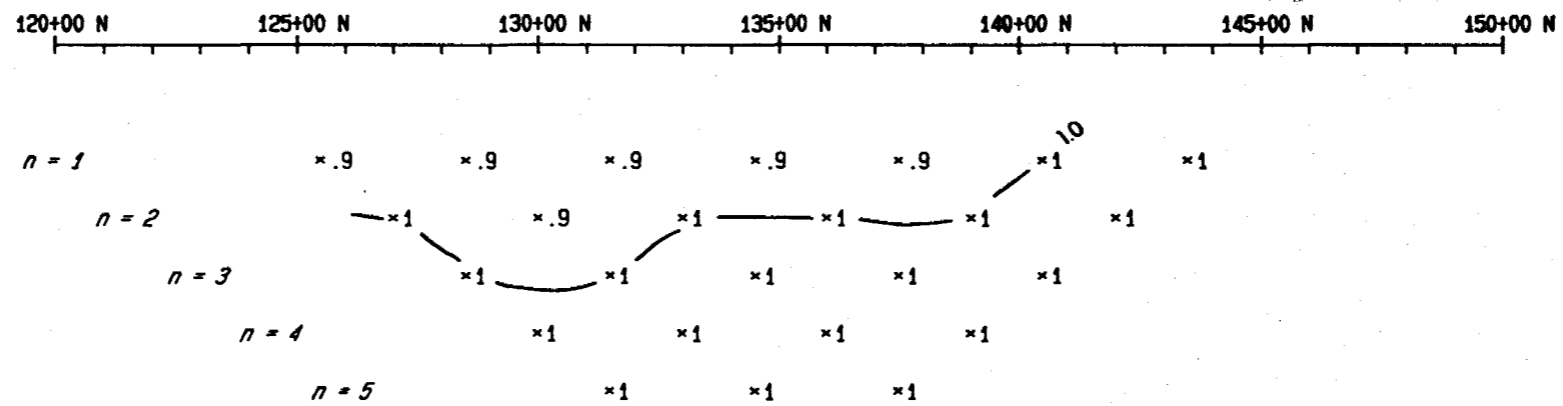
L-274+00 E
5th SEP.



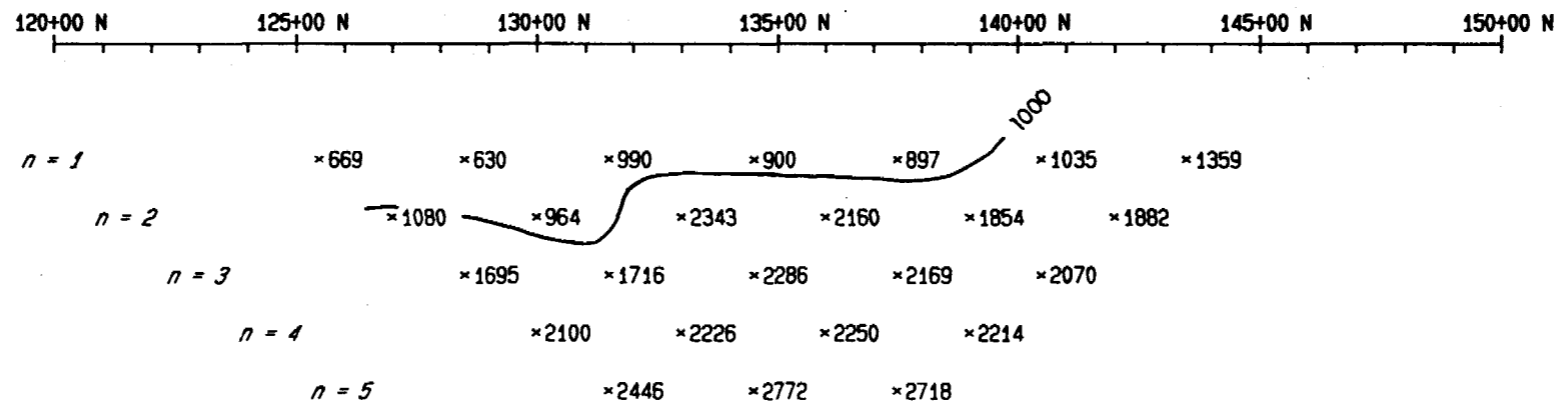
L-274+00 E
METAL FACTOR
(Ef/Res. * 1000%)



L-274+00 E
FREQUENCY EFFECT



L-274+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)



FALCONBRIDGE LIMITED

MICHAUD TOWNSHIP

INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

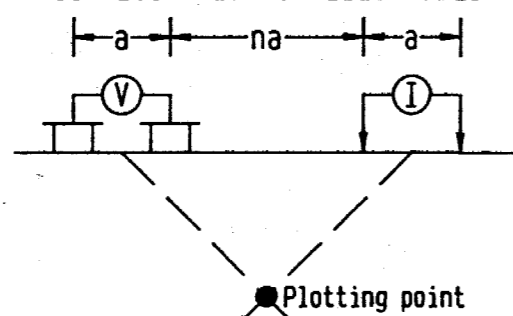
Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet

Separation between dipole : n = 1, 2, 3, 4, 5

CONFIGURATION OF ELECTRODES



Operators: G. Beier

63.4487

L-274+00 E

BY :

GÉOLA LTÉE

EXECUTED BY : G. Beier

May 1984

INTERPRETED BY :

DRAWN BY : J. Proulx, Tech.

July 1984

N.T.S.: 42A/B

PLAN NO : 84-975-06

GARRISON CREEK
Michaud twp., Ontario

Scale : 1" = 400'

0 200' 400' 600' 800'

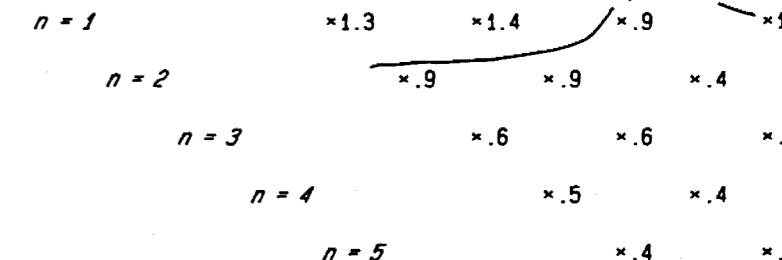
L-274+00 E
5th SEP.

1 in. = 5%

+2.5%
-2.5%

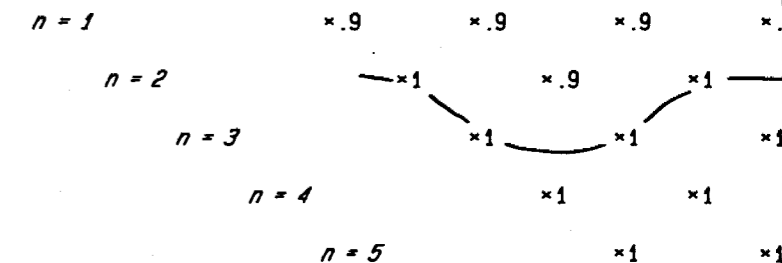
120+00 N 125+00 N 130+00 N 135

L-274+00 E
METAL FACTOR
(Ef/Res. * 1000%)



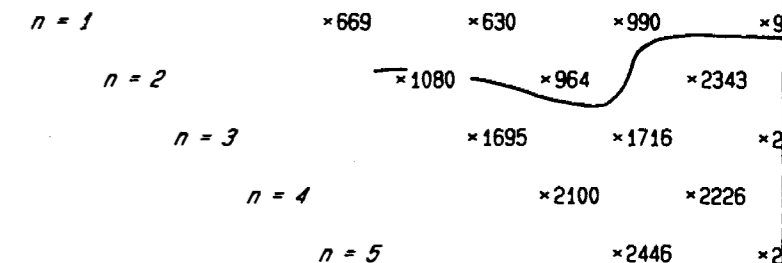
L-274+00 E
FREQUENCY EFFECT

120+00 N 125+00 N 130+00 N 135

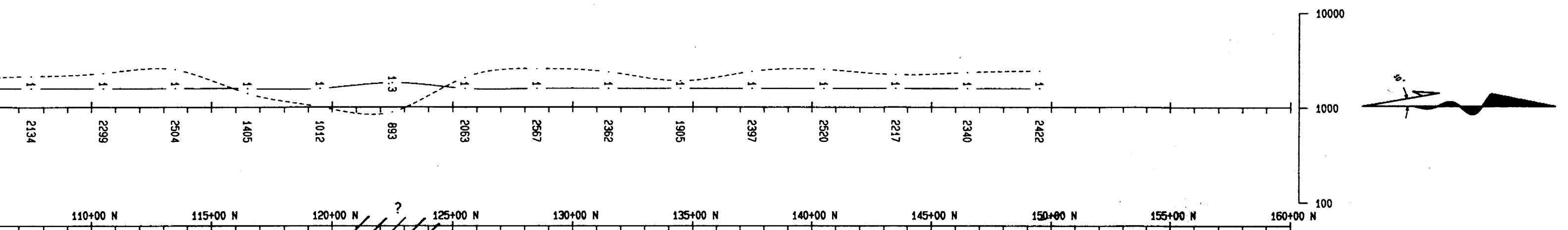


L-274+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)

120+00 N 125+00 N 130+00 N 135

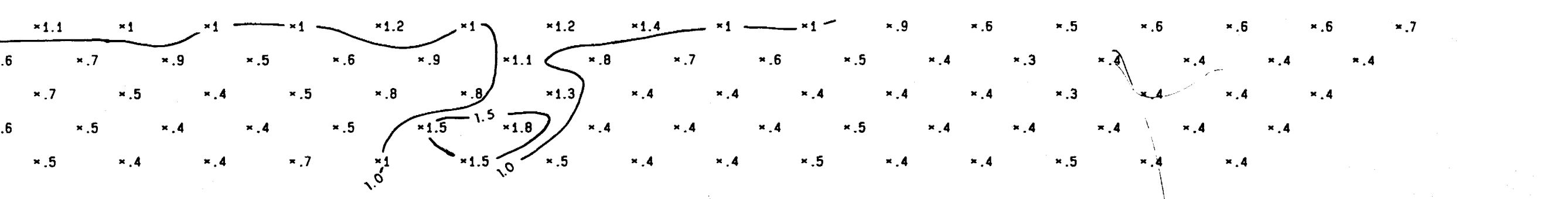


1 in. : 1 cycle

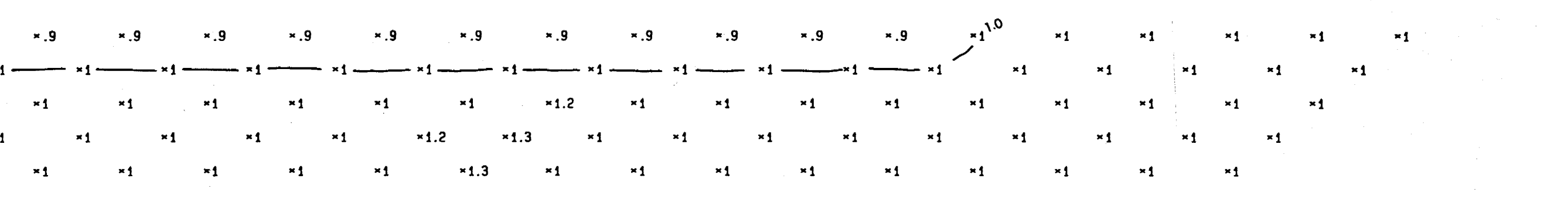


2134 2299 2504 1405 1012 893 2063 2667 2362 1905 2397 2520 2217 2340 2422

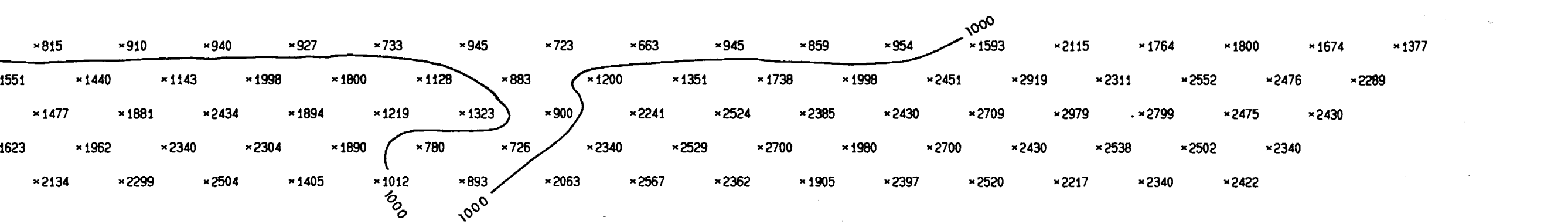
110+00 N 115+00 N 120+00 N ? 125+00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+00 N 160+00 N



110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+00 N 160+00 N



110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+00 N 160+00 N



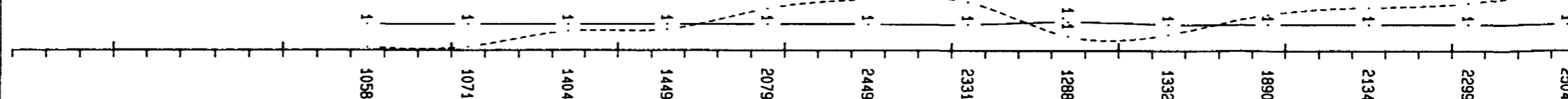
110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+00 N 160+00 N

*815 *910 *940 *927 *733 *945 *723 *663 *945 *859 *954 *1593 *2115 *1764 *1800 *1674 *1377
 1551 *1440 *1143 *1998 *1800 *1128 *883 *1200 *1351 *1738 *1998 *2451 *2919 *2311 *2552 *2476 *2289
 *1477 *1881 *2434 *1894 *1219 *1323 *900 *2241 *2524 *2385 *2430 *2709 *2979 *2799 *2475 *2430
 1623 *1962 *2340 *2304 *1890 *780 *726 *2340 *2529 *2700 *1980 *2700 *2430 *2538 *2502 *2340
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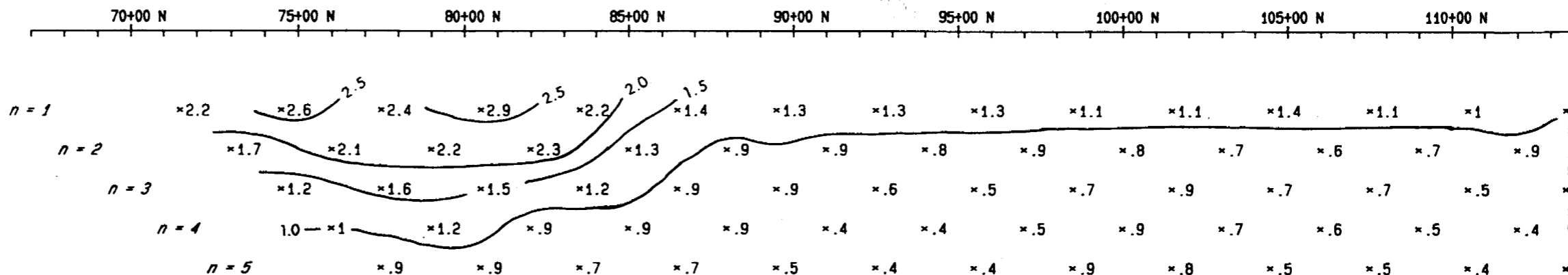
L-280+00 E
5th SEP.

1 in. = 5%

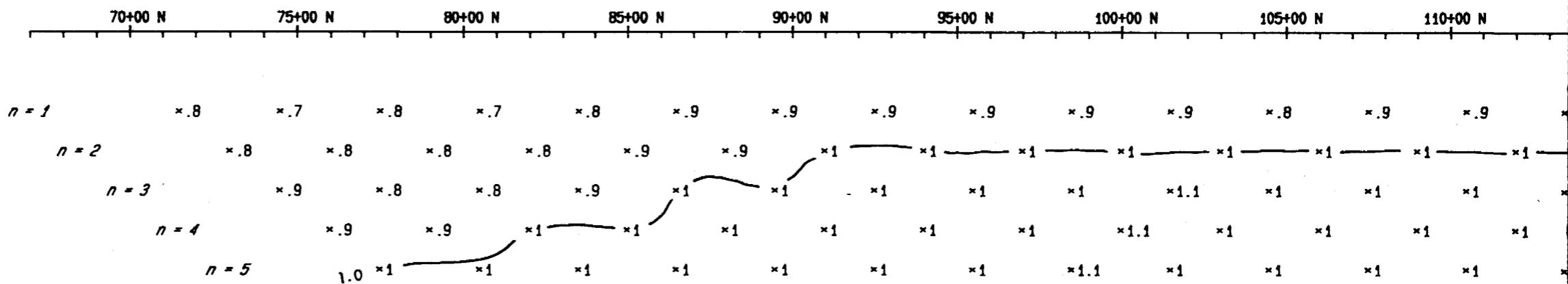
+2.5%
-2.5%



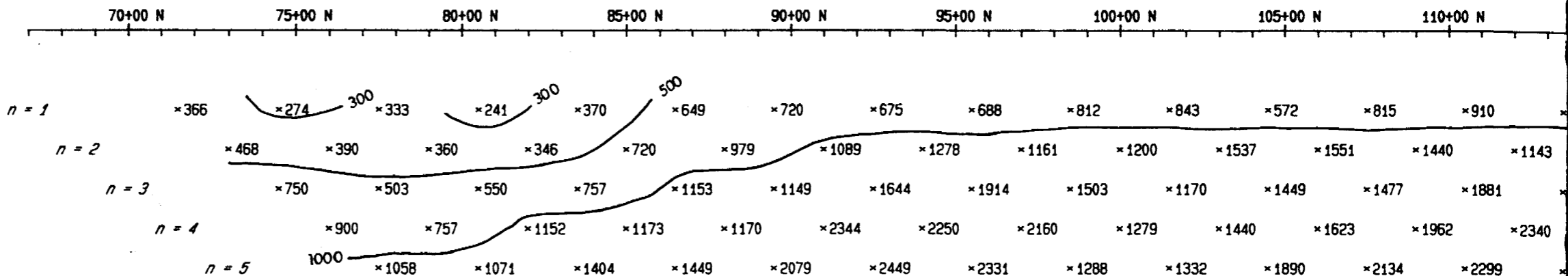
L-280+00 E
METAL FACTOR
(Ef/Res. * 1000%)



L-280+00 E
FREQUENCY EFFECT



L-280+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)



FALCONBRIDGE LIMITED

MICHAUD TOWNSHIP

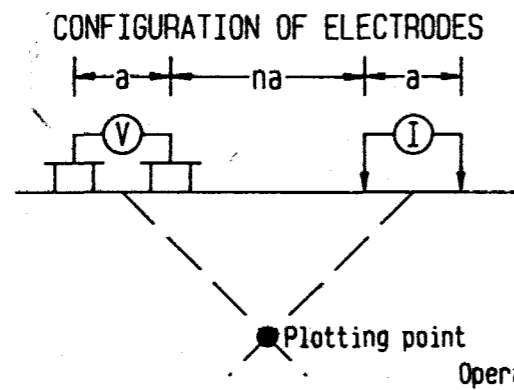
INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet
Separation between dipole : n = 1, 2, 3, 4, 5



Operators: G. Beier

63.4487

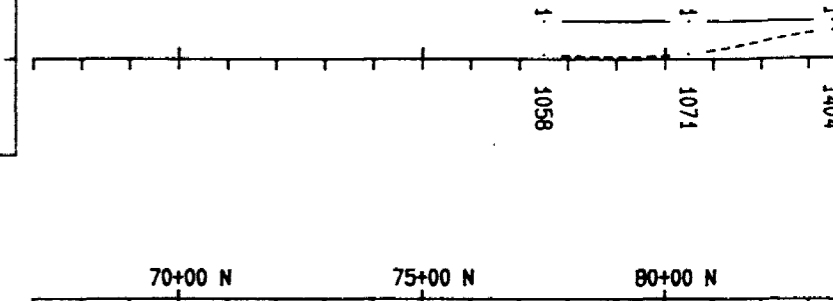
L-280+00 E

BY :	GÉOLA LTÉE	
EXECUTED BY :	G. Beier	May 1984
INTERPRETED BY :		
DRAWN BY :	J. Proulx, Tech.	July 1984
N.T.S.:	42A/B	PLAN NO : 84-975-07

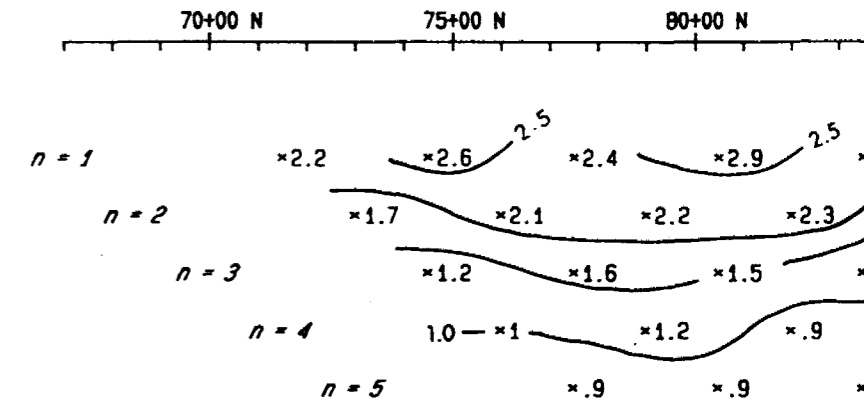
GARRISON CREEK
Michaud tmp., Ontario
Scale : 1" = 400'

L-280+00 E
5th SEP.

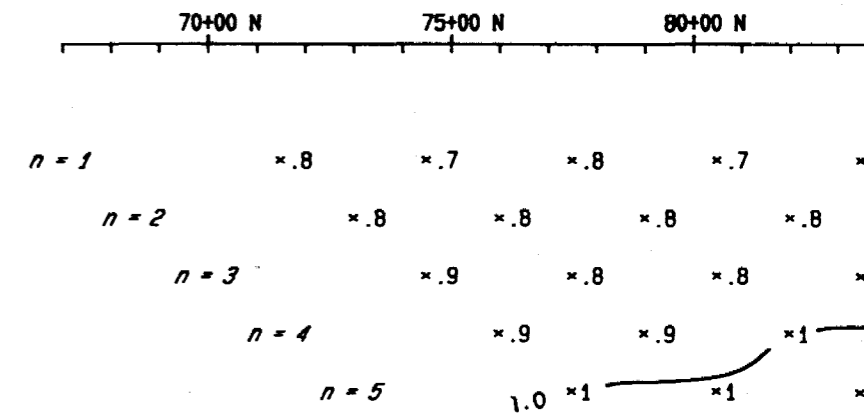
1 in. = 5%
+2.5%
-2.5%



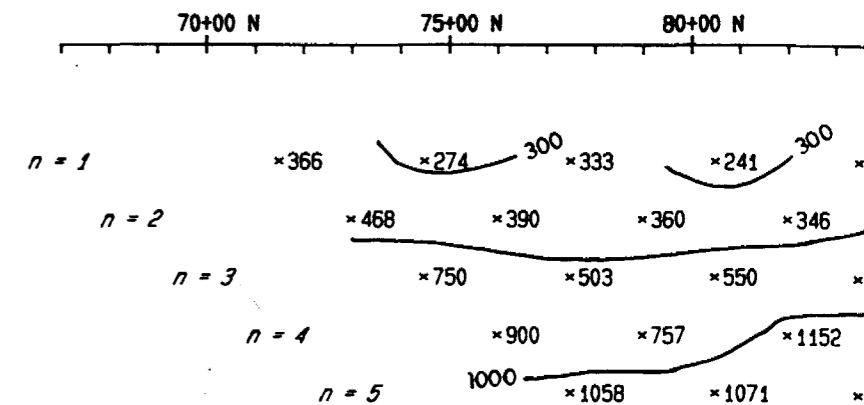
L-280+00 E
METAL FACTOR
(Ef/Res. * 1000%)



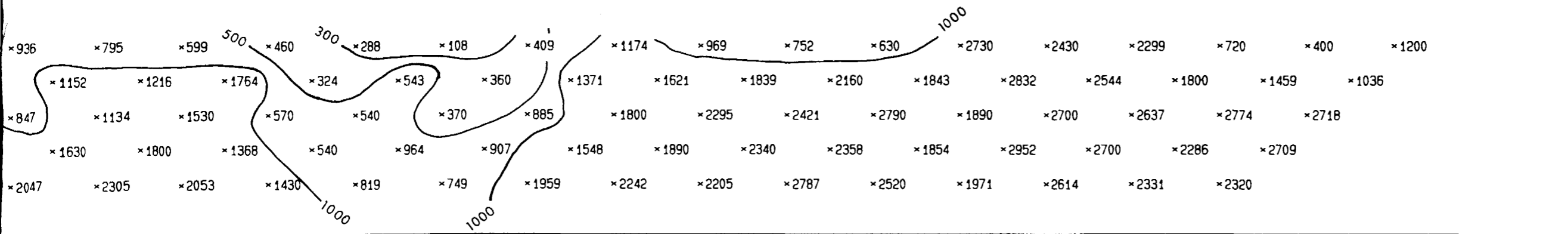
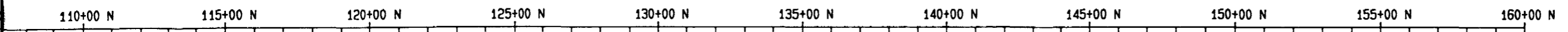
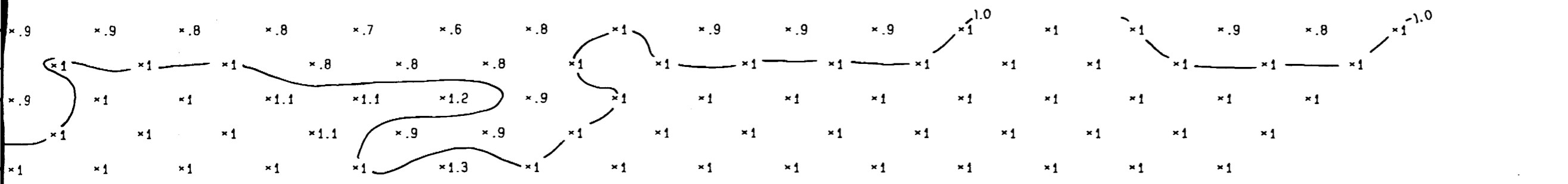
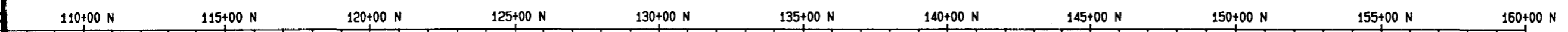
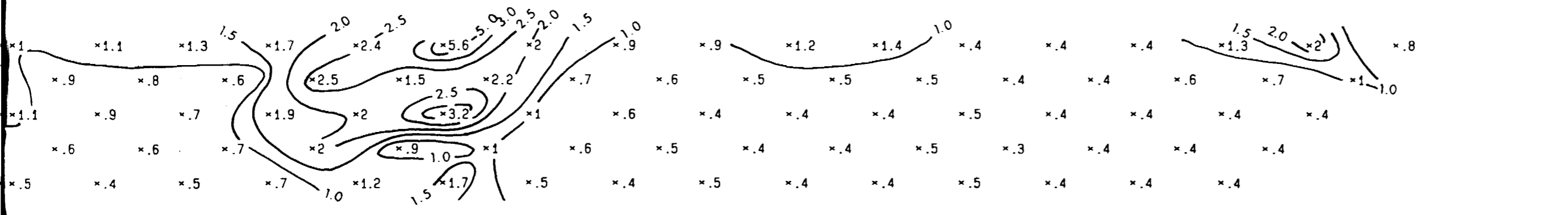
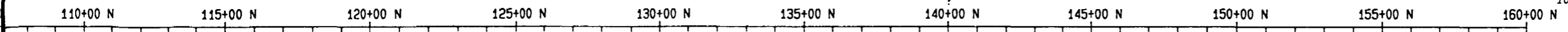
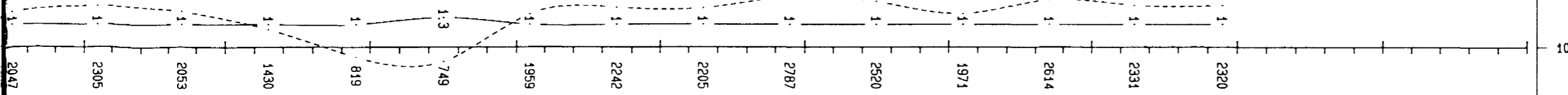
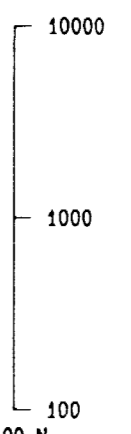
L-280+00 E
FREQUENCY EFFECT



L-280+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)



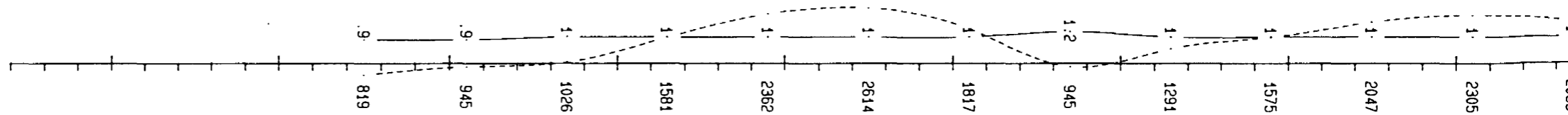
1 in. : 1 cycle



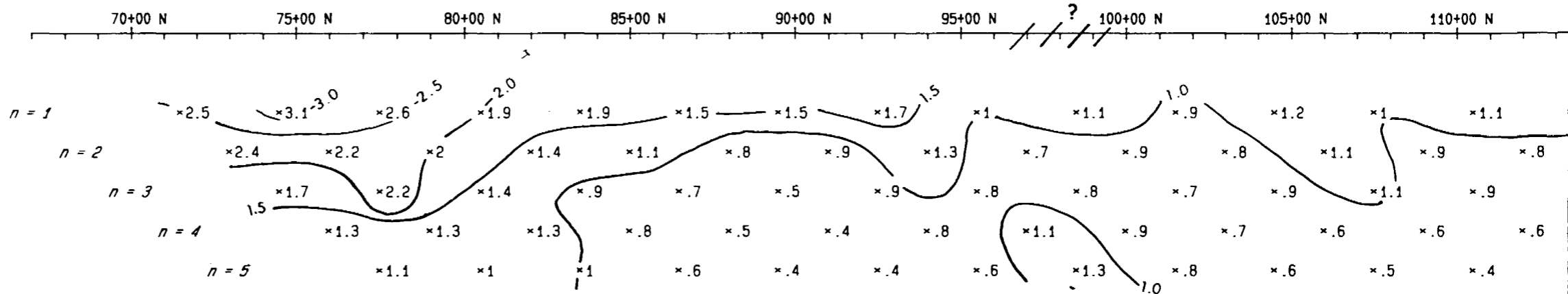
L-286+00 E
5th SEP.

1 in. = 5%

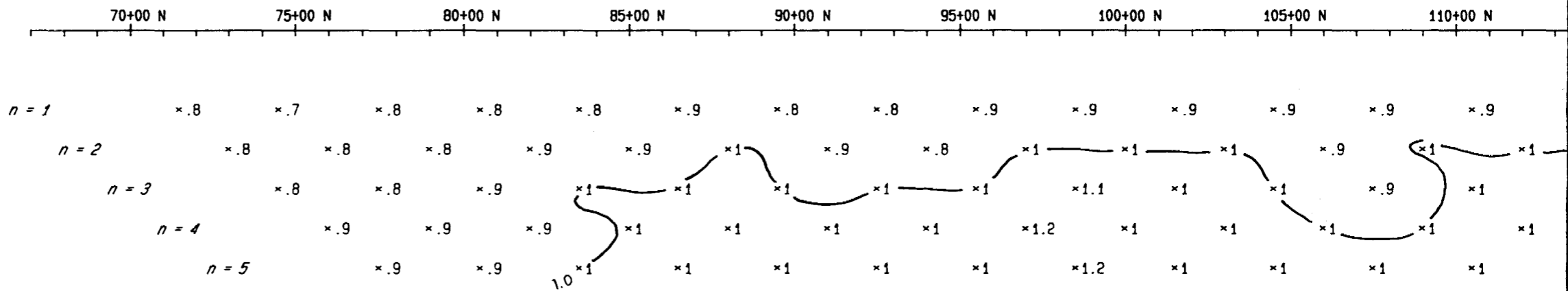
+2.5%
-2.5%



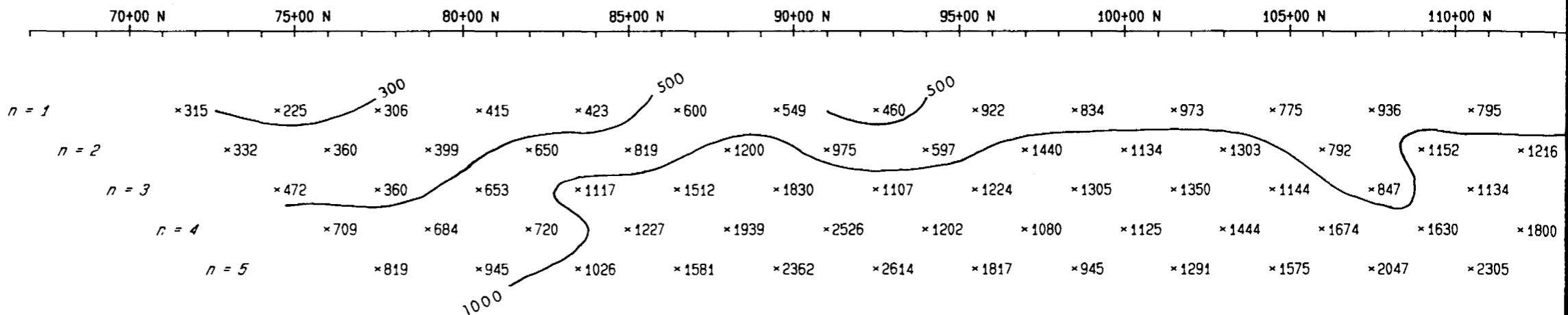
L-286+00 E
METAL FACTOR
(Ef/Res. * 1000%)



L-286+00 E
FREQUENCY EFFECT



L-286+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)



FALCONBRIDGE LIMITED

MICHAUD TOWNSHIP

INDUCED POLARIZATION SURVEY

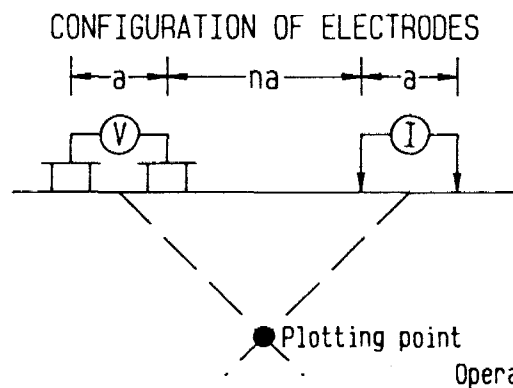
Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet

Separation between dipole : n = 1, 2, 3, 4, 5



63.4487

L-286+00 E

BY : GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

INTERPRETED BY :

DRAWN BY : J. Proulx, Tech. July 1984

N.T.S.: 42A/B PLAN NO : 84-975-08

GARRISON CREEK
Michaud twp., Ontario

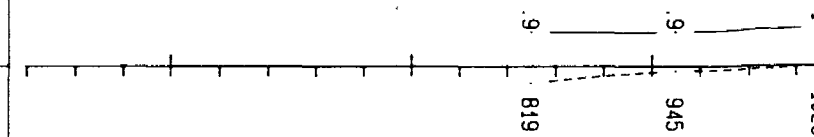
Scale : 1" = 400'

0 200 400 600 800'

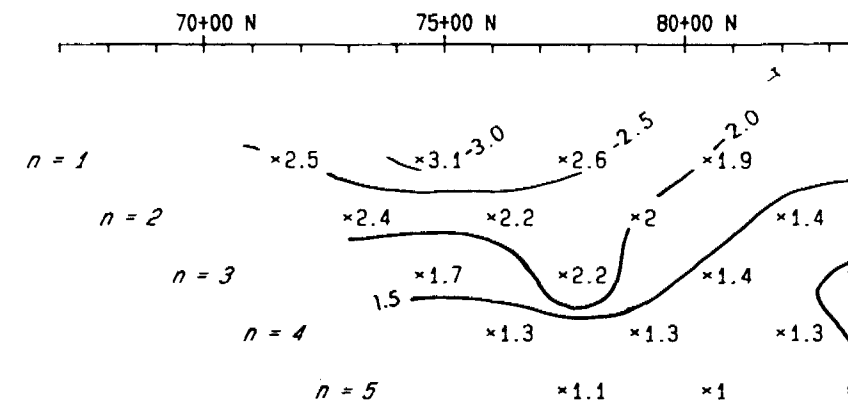
L-286+00 E
5th SEP.

1 in. = 5%

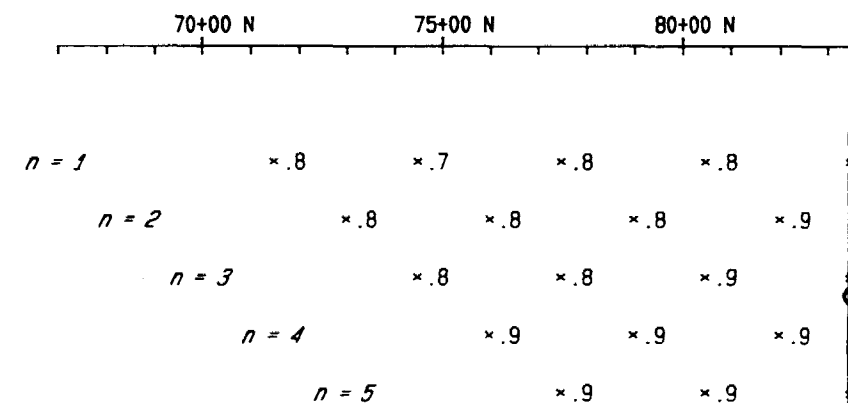
+2.5%
-2.5%



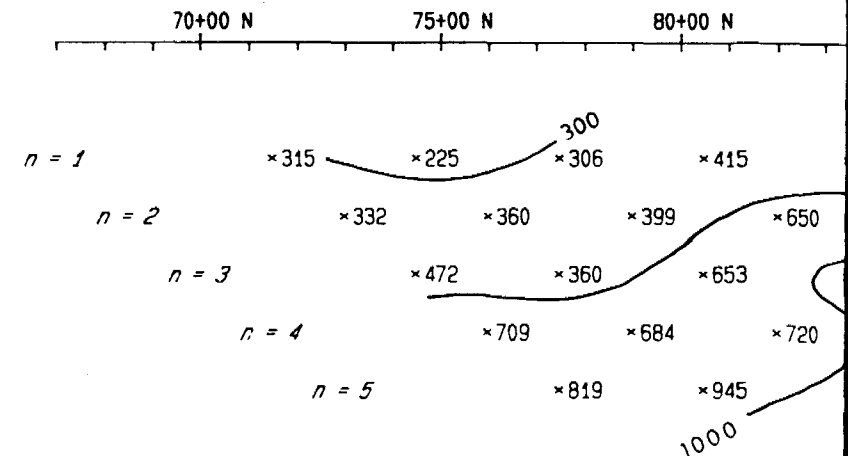
L-286+00 E
METAL FACTOR
(Ef/Res. * 1000%)



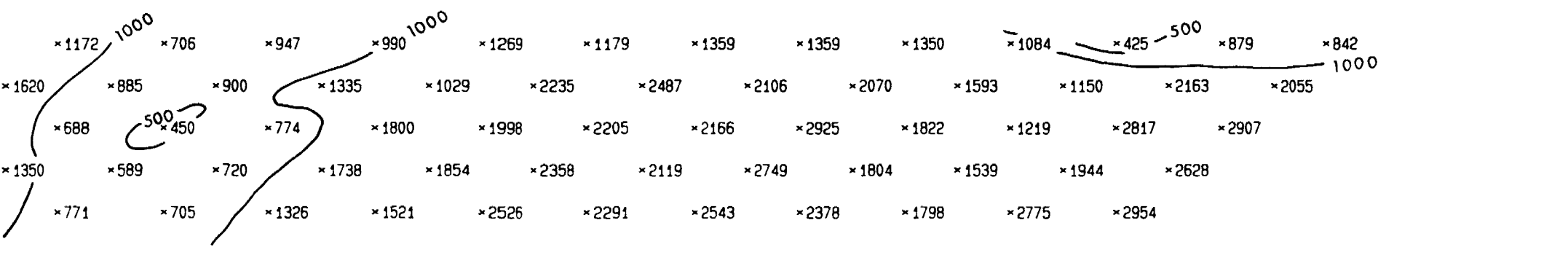
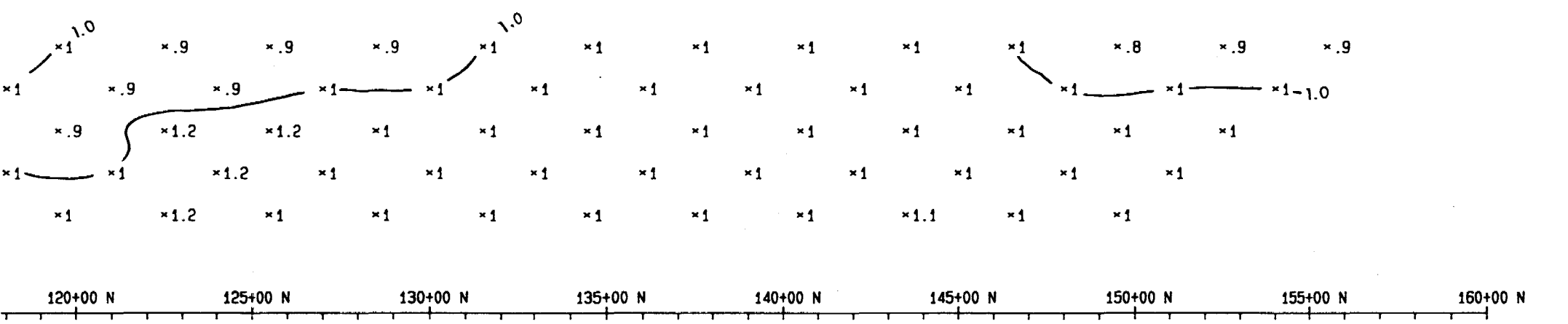
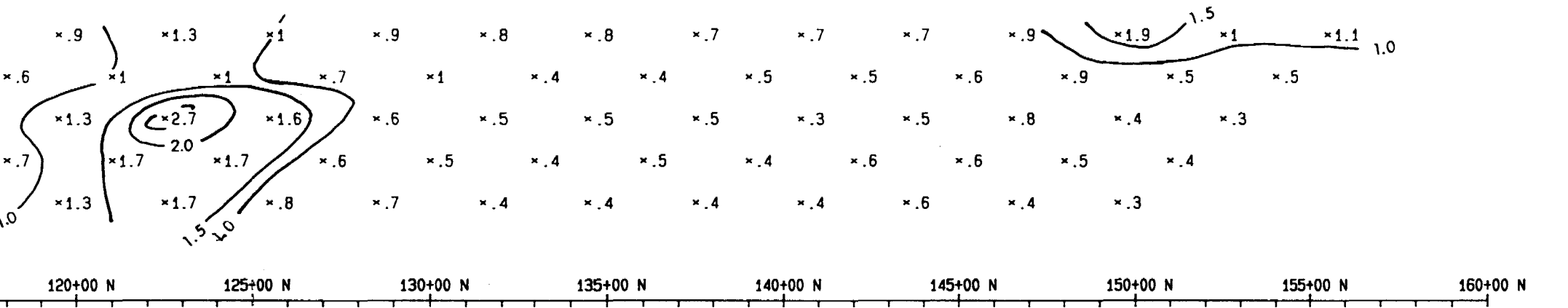
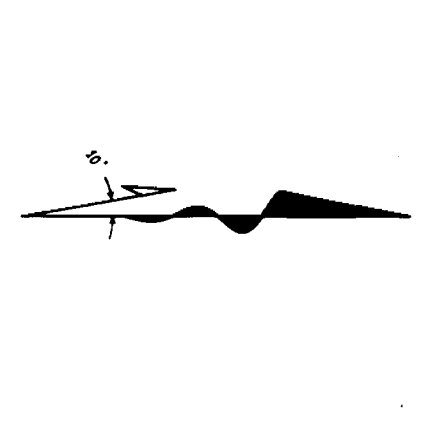
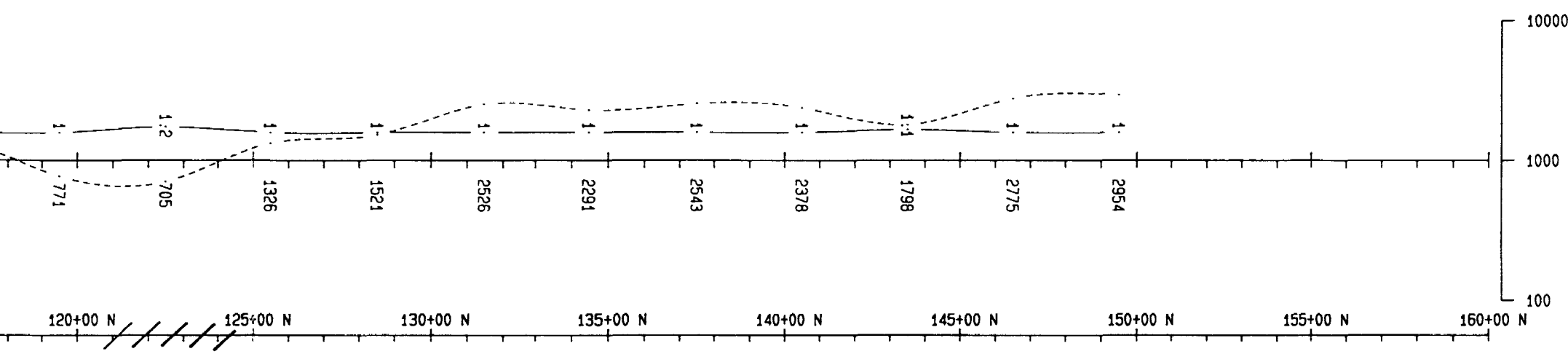
L-286+00 E
FREQUENCY EFFECT



L-286+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)

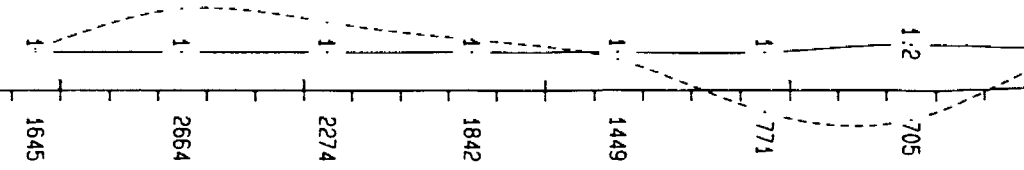


1 in. : 1 cycle

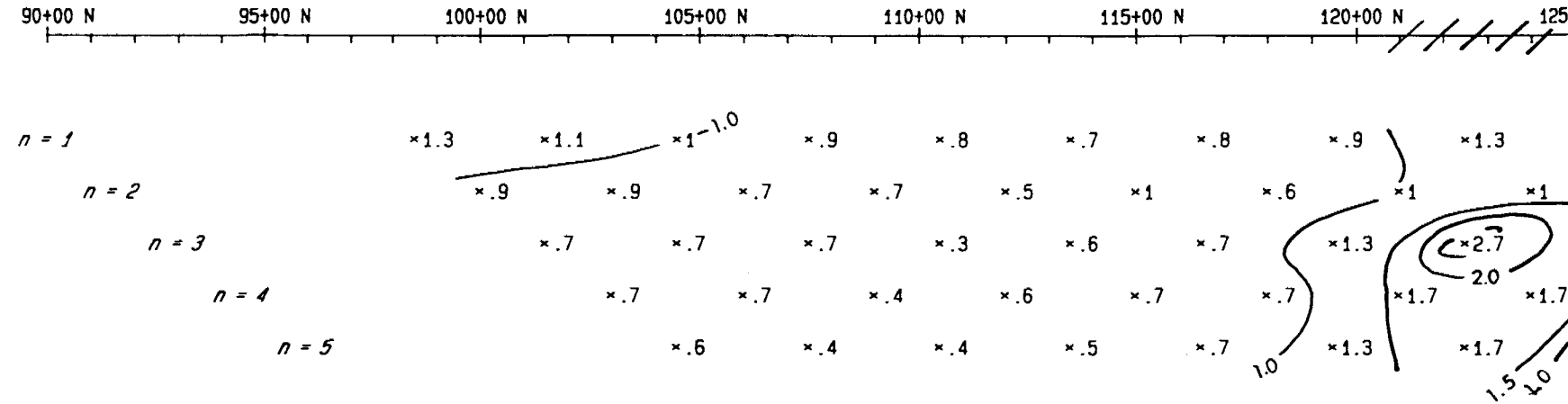


L-292+00 E
5th SEP.

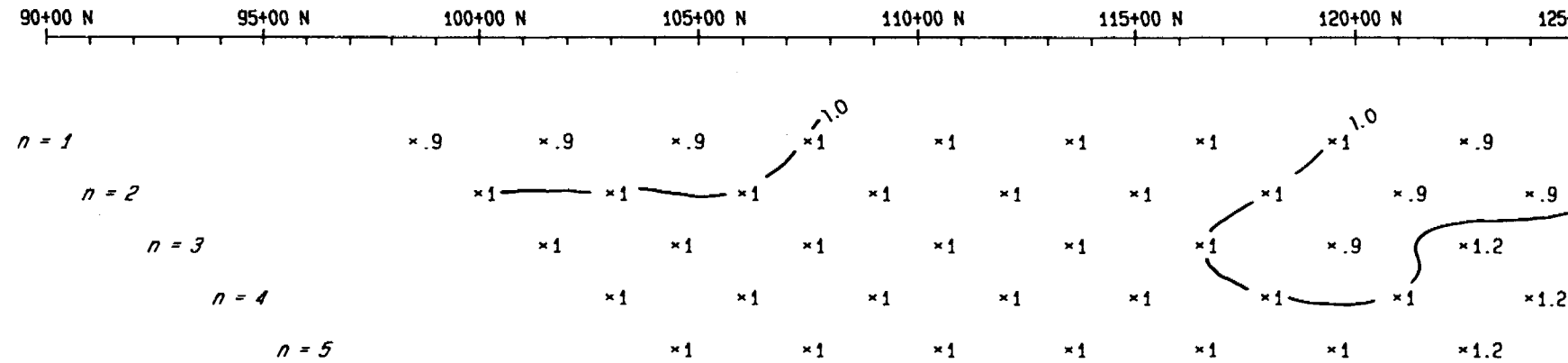
1 in. = 5%



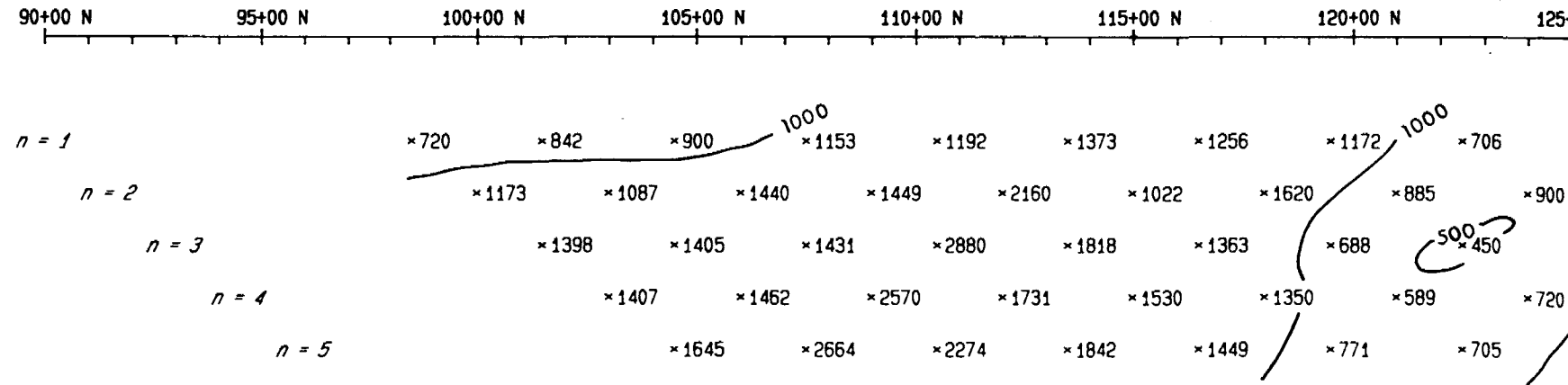
L-292+00 E
METAL FACTOR
(Ef/Res. * 1000%)



L-292+00 E
FREQUENCY EFFECT



L-292+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)



FALCONBRIDGE LIMITED

MICHAUD TOWNSHIP

INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

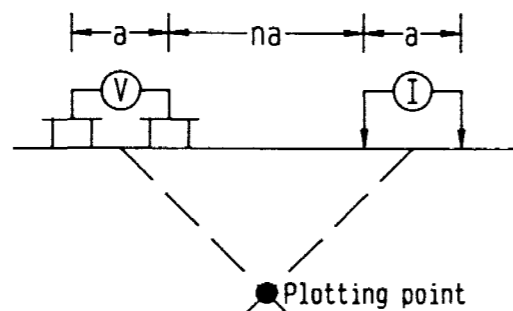
Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet

Separation between dipole : n = 1, 2, 3, 4, 5

CONFIGURATION OF ELECTRODES



Operators: G. Beier

63.4487

L-292+00 E

BY : GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

INTERPRETED BY :

DRAWN BY : J. Proulx, Tech. July 1984

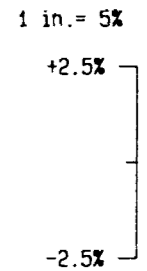
N.T.S.: 42A/B PLAN NO : 84-975-09

GARRISON CREEK
Michaud twp., Ontario

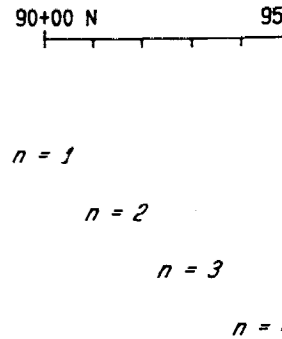
Scale : 1" = 400'

0 200 400 600 800

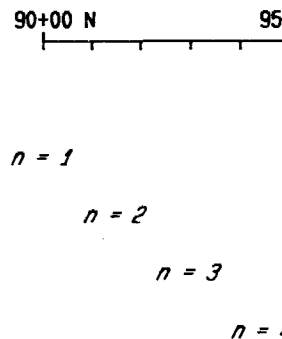
L-292+00 E
5th SEP.



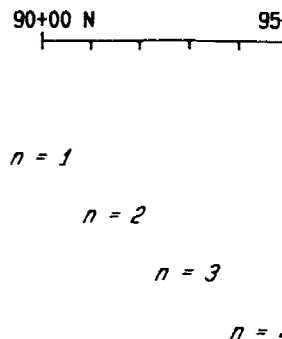
L-292+00 E
METAL FACTOR
(Ef/Res. * 1000%)



L-292+00 E
FREQUENCY EFFECT

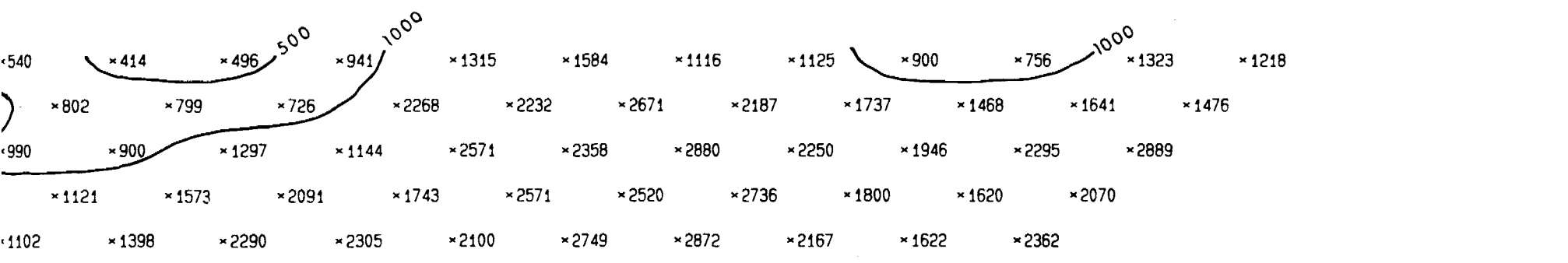
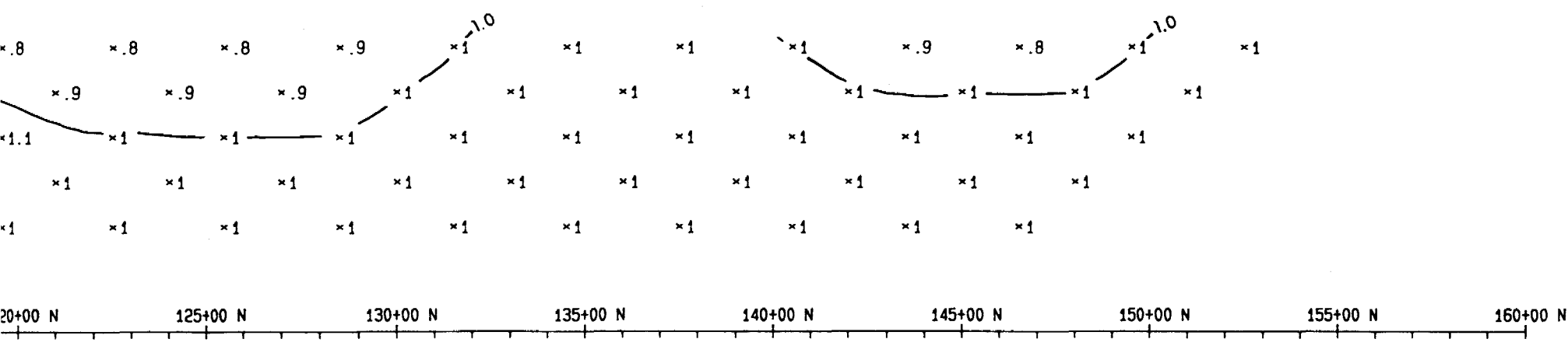
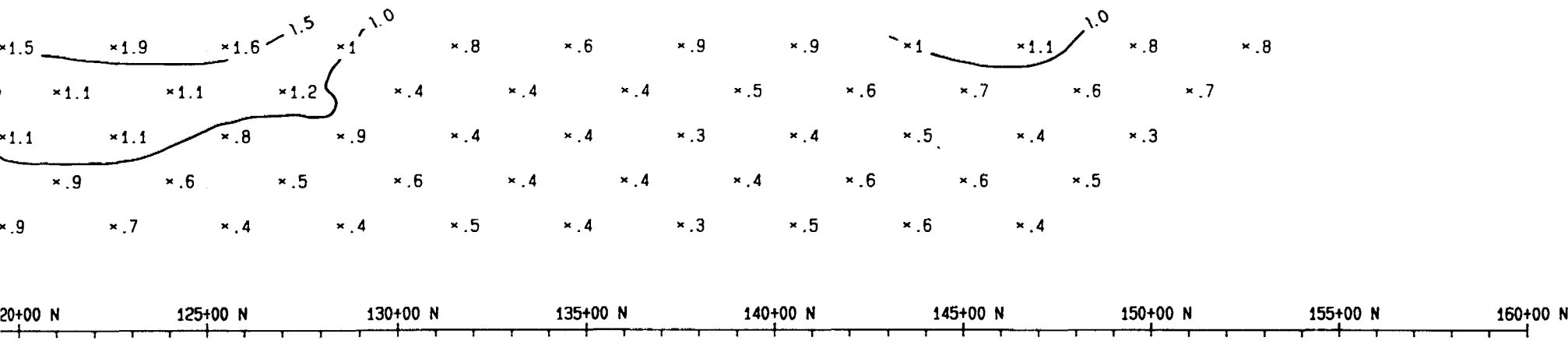
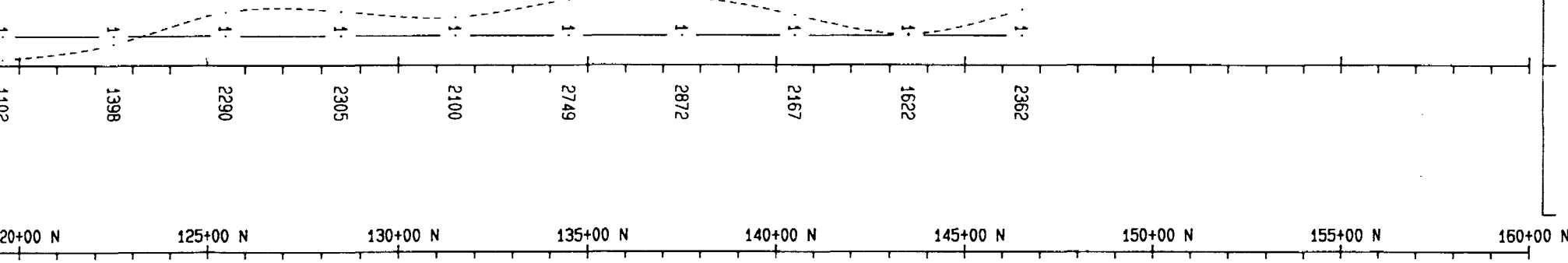


L-292+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)



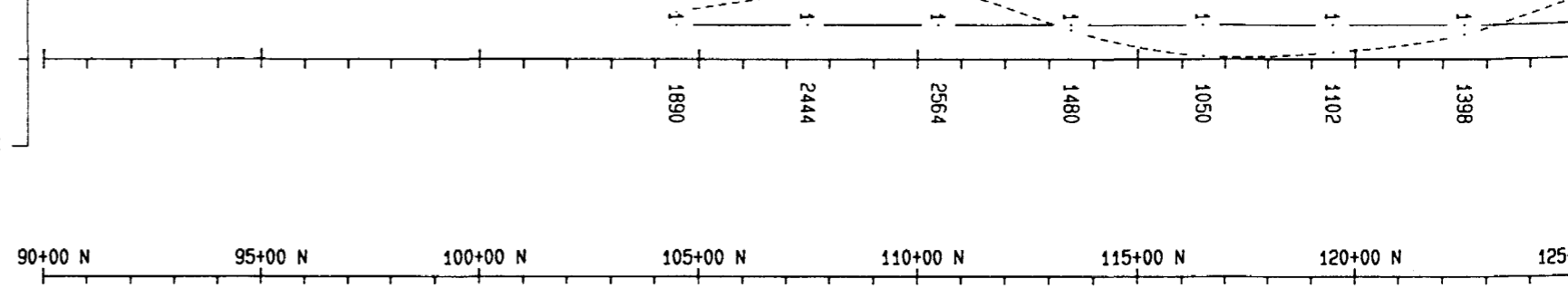
1 in. : 1 cycle

10000
1000
100

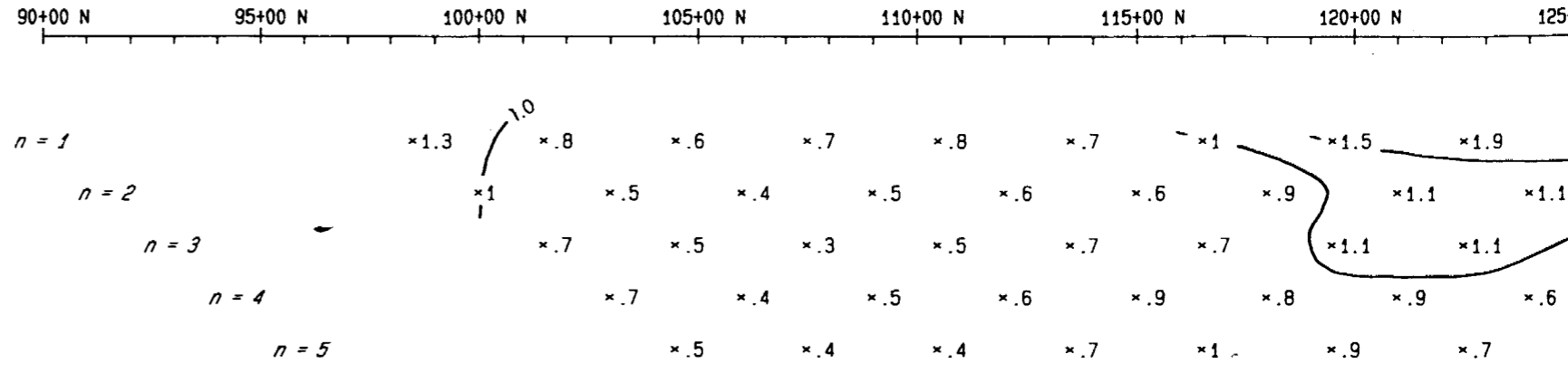


L-298+00 E
5th SEP.

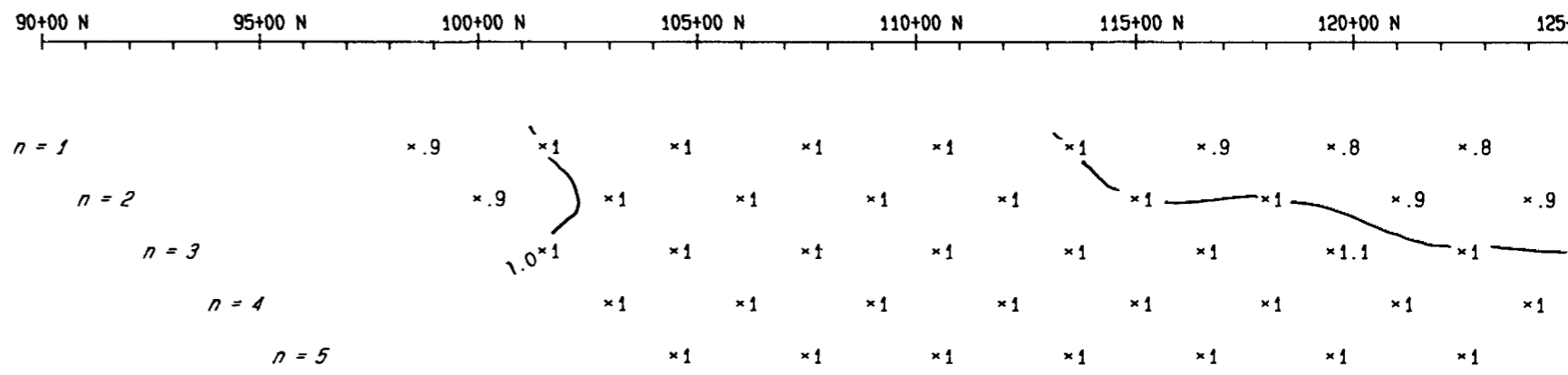
1 in. = 5%



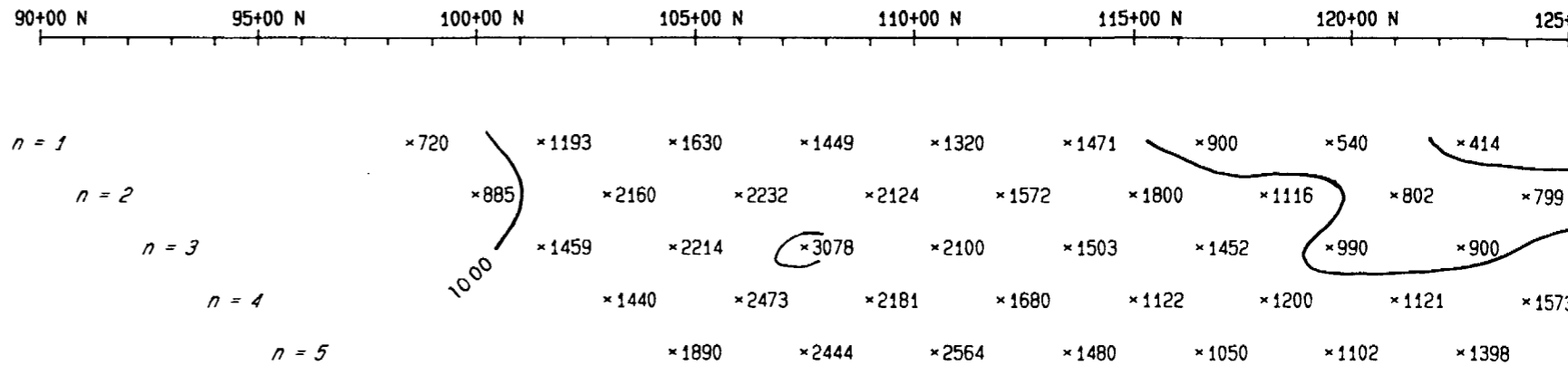
L-298+00 E
METAL FACTOR
(Ef/Res. * 1000%)



L-298+00 E
FREQUENCY EFFECT



L-298+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)



FALCONBRIDGE LIMITED

MICHAUD TOWNSHIP

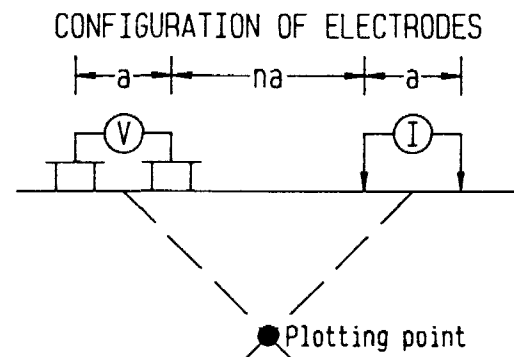
INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & 30 Hz.

Separation of electrodes : $a = 300$ feet
Separation between dipole : $n = 1, 2, 3, 4, 5$



Operators: *G. Beier*

63,4487

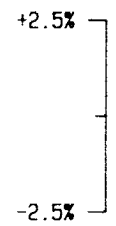
L-298+00 E

BY : GÉOLA LTÉE

EXECUTED BY : *G. Beier* May 1984
INTERPRETED BY :
DRAWN BY : *J. Proulx, Tech.* July 1984
N.T.S.: 42A/B PLAN NO : 84-975-10

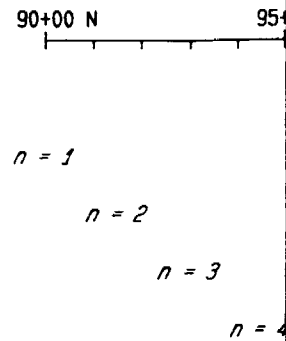
GARRISON CREEK
Michaud twp., Ontario
Scale : 1" = 400'
0 200 400 600 800

1 in. = 5%

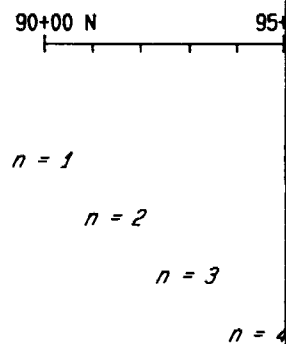


L-298+00 E
5th SEP.

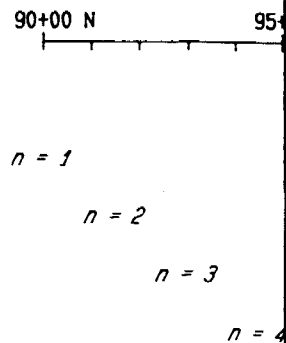
L-298+00 E
METAL FACTOR
($E_f/Res. \times 1000\%$)



L-298+00 E
FREQUENCY EFFECT



L-298+00 E
RESISTIVITY
($\rho_a/2\pi$, Ohm-metres)



FALCONBRIDGE LIMITED

MICHAUD TOWNSHIP

INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

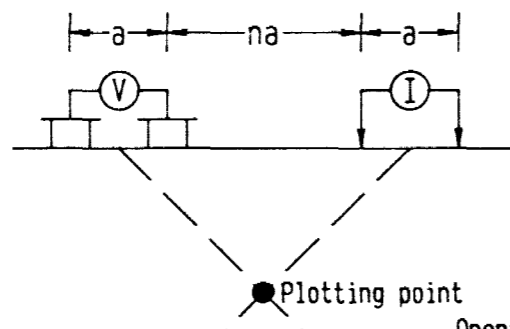
Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30Hz.

Separation of electrodes : a = 300 feet

Separation between dipole : n = 1, 2, 3, 4, 5

CONFIGURATION OF ELECTRODES



Operators: G. Beier

63, 4487

L-300+00 E

BY :	GÉOLA LTÉE	
EXECUTED BY :	G. Beier	May 1984
INTERPRETED BY :		
DRAWN BY :	J. Proulx, Tech.	July 1984
N.T.S.:	42A/B	PLAN NO : 84-975-11

GARRISON CREEK
Michaud tmp., Ontario

Scale : 1" = 400'

0 200' 400' 600' 800'

L-300+00 E
5th SEP.

L-300+00 E
METAL FACTOR
(E_f/Res. * 1000%)

L-300+00 E
FREQUENCY EFFECT

L-300+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)

1 in. = 5%

+2.5%

-2.5%

90+00 N 95'

n = 1

n = 2

n = 3

n = 4

90+00 N 95'

n = 1

n = 2

n = 3

n = 4

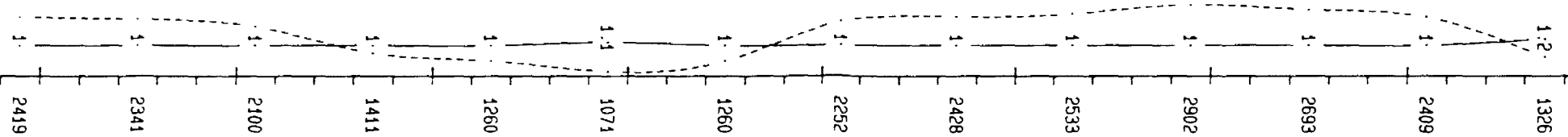
90+00 N 95'

n = 1

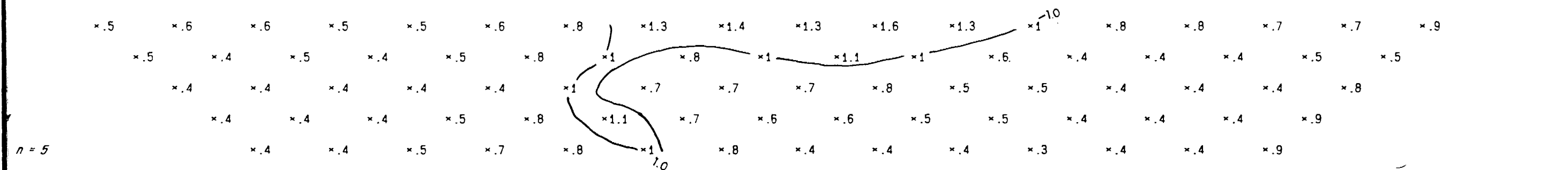
n = 2

n = 3

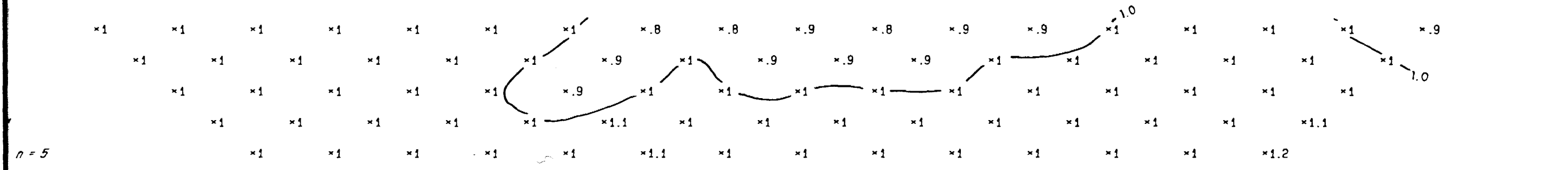
n = 4



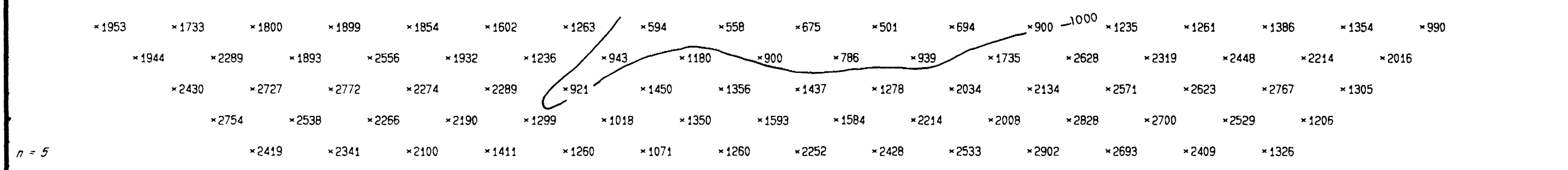
90+00 N 100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+00 N



90+00 N 100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+00 N

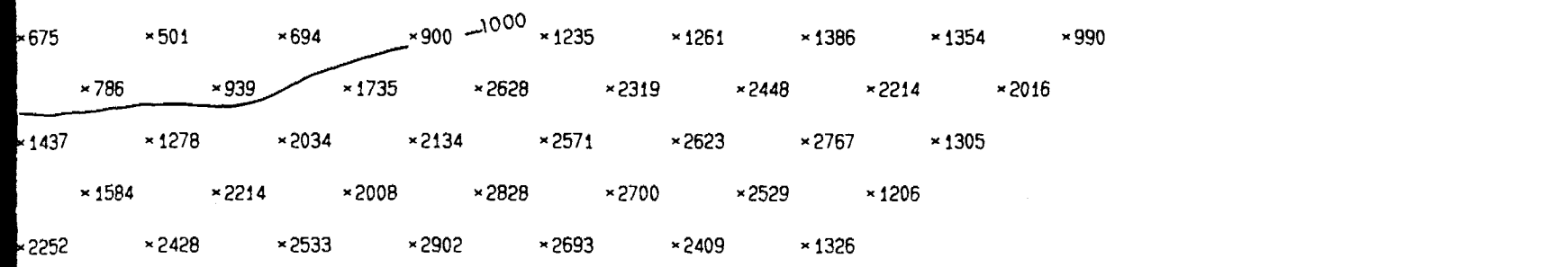
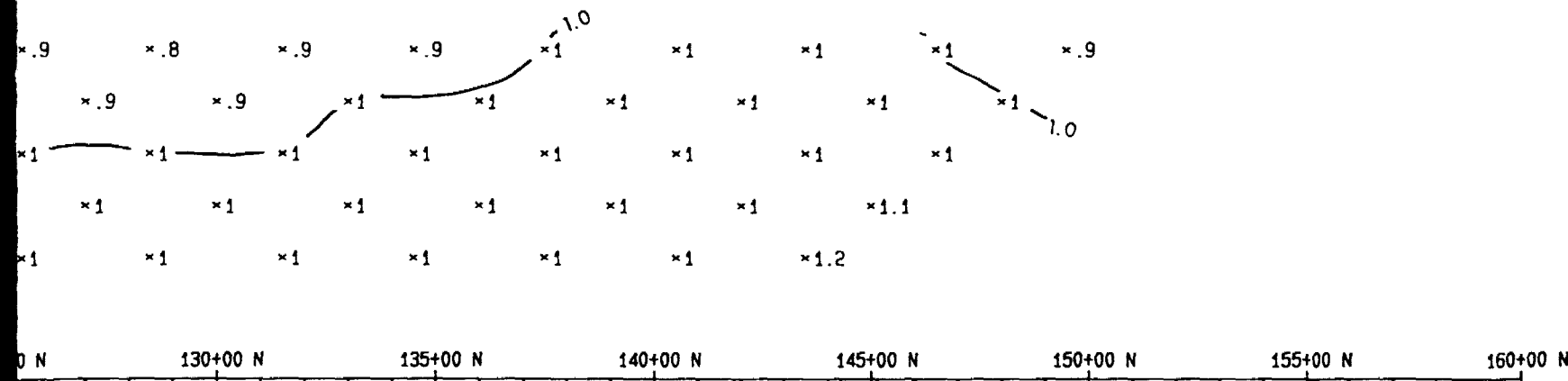
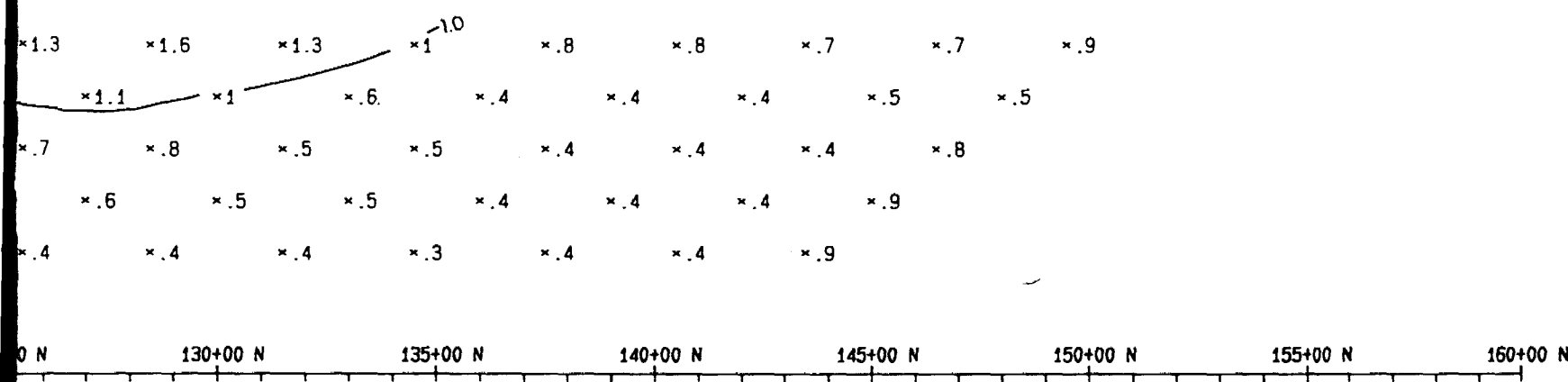
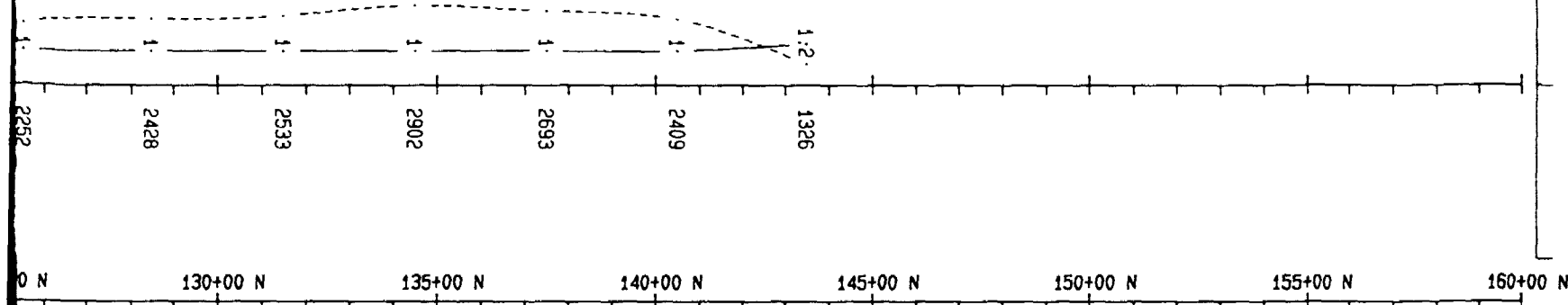


90+00 N 100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+00 N



1 in. : 1 cycle

10000
1000
100



FALCONBRIDGE LIMITED

MICHAUD TOWNSHIP

INDUCED POLARIZATION SURVEY

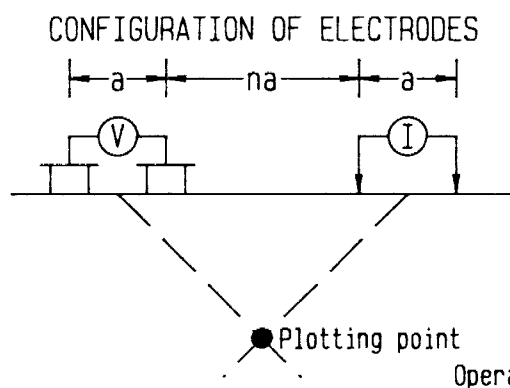
Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet

Separation between dipole : n = 1, 2, 3, 4, 5



Operators: G. Beier

63.4487

L-304+00 E

BY : GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

INTERPRETED BY :

DRAWN BY : J. Proulx, Tech. July 1984

N.T.S.: 42A/B PLAN NO : 84-975-12

GARRISON CREEK
Michaud tmp., Ontario
Scale : 1" = 400'
0 200 400 600 800

L-304+00 E
5th SEP.

1 in. = 5%



L-304+00 E
METAL FACTOR
(Ef/Res. * 1000%)

90+00 N 95

n = 1

n = 2

n = 3

n = 4

L-304+00 E
FREQUENCY EFFECT

90+00 N 95

n = 1

n = 2

n = 3

n = 4

L-304+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)

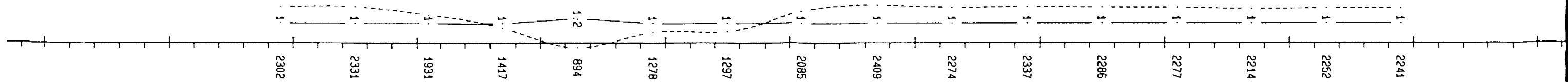
90+00 N 95

n = 1

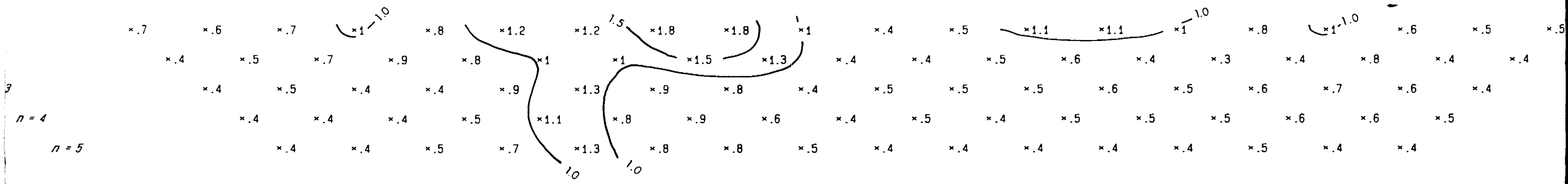
n = 2

n = 3

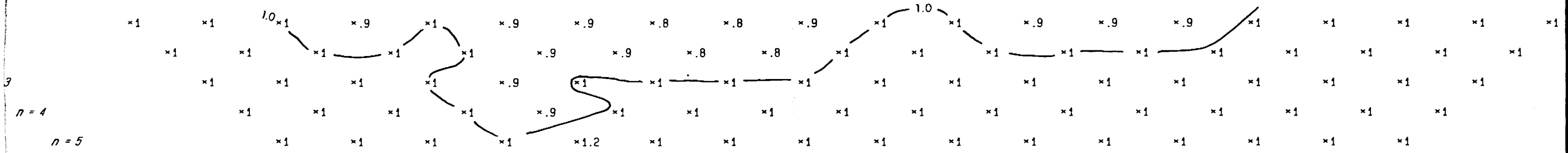
n = 4



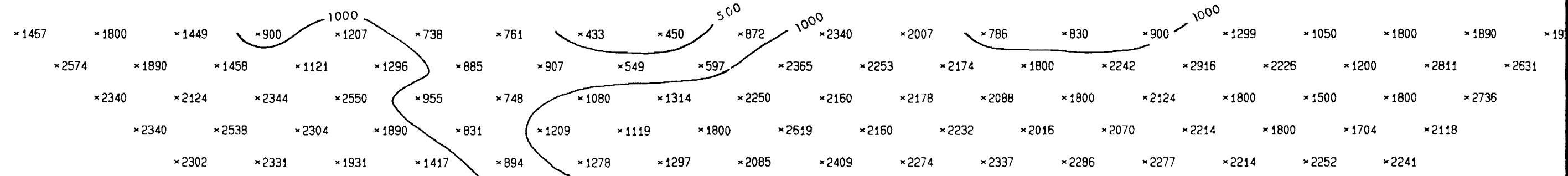
95+00 N 100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+00 N



95+00 N 100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+00 N



95+00 N 100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+00 N



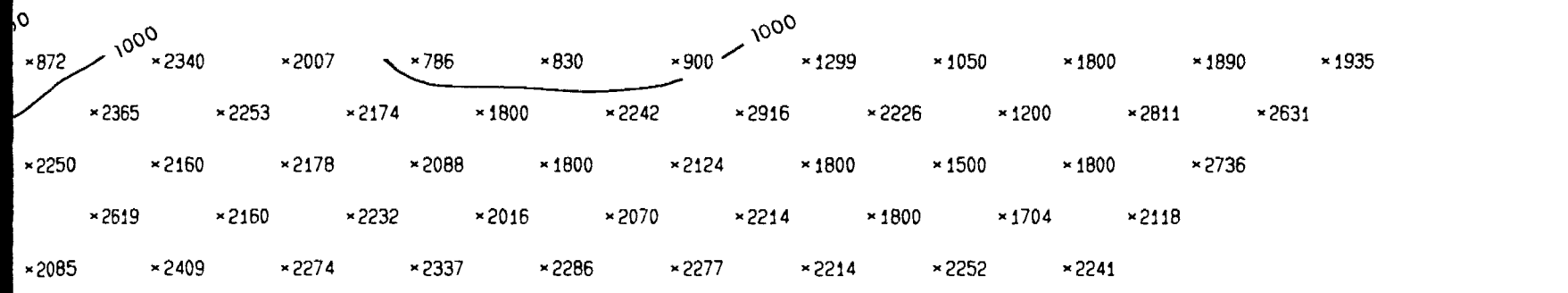
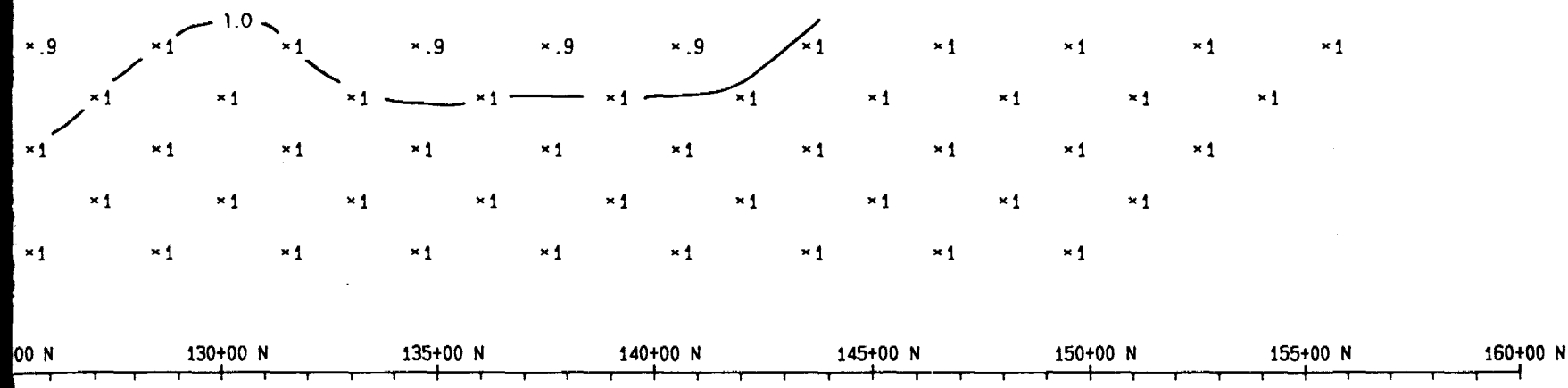
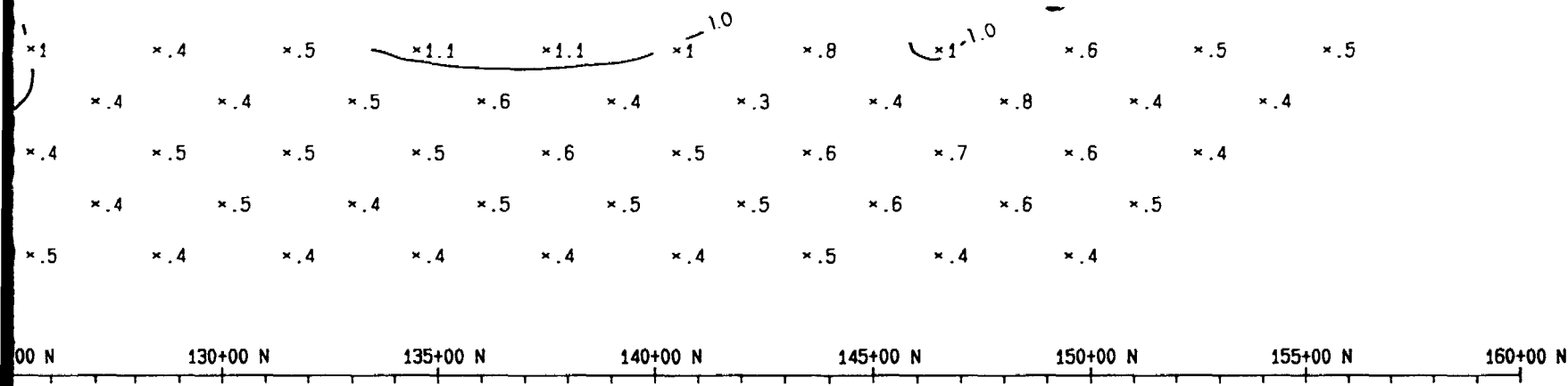
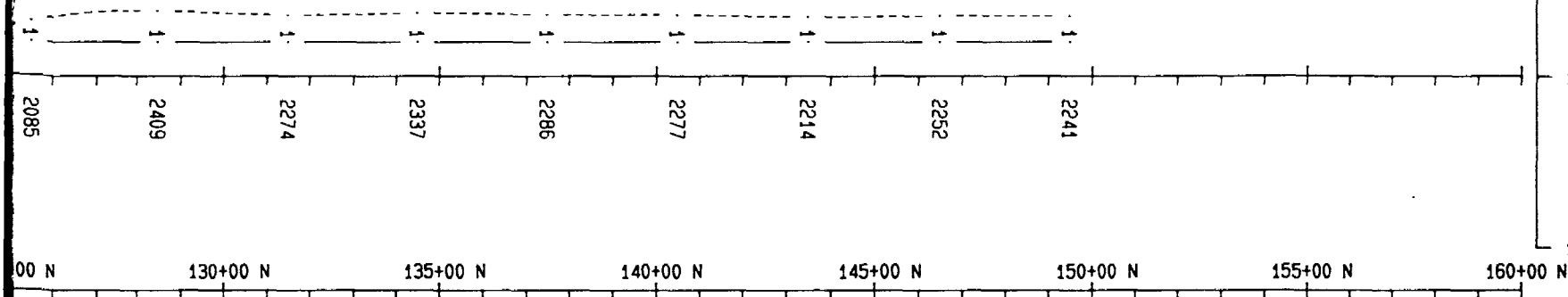
BY :
EXECUTIVE
INTERPRETER
DRAWN BY
N.T.S.

1 in. : 1 cycle

10000

1000

100



FALCONBRIDGE LIMITED

MICHAUD TOWNSHIP

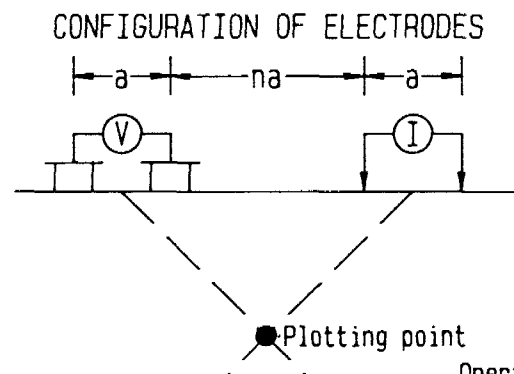
INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet
Separation between dipole : n = 1, 2, 3, 4, 5



Operators: G. Beier

63,4487

L-308+00 E

BY : GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

INTERPRETED BY :

DRAWN BY : J. Proulx, Tech. July 1984

N.T.S.: 42A/B PLAN NO : 84-975-13

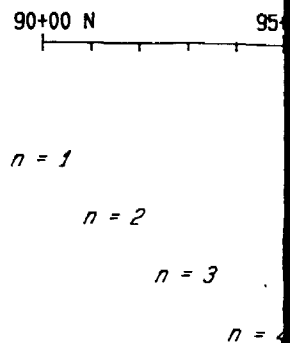
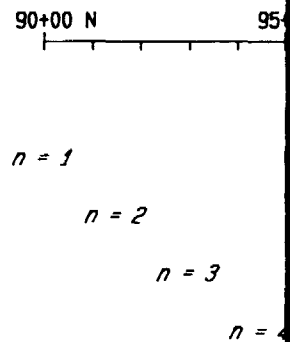
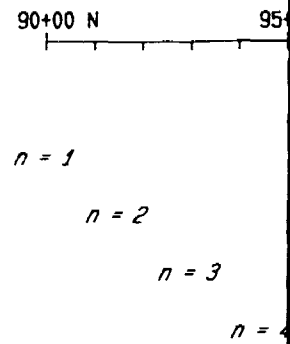
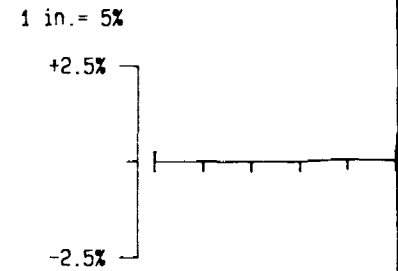
GARRISON CREEK
Michaud twp., Ontario
Scale : 1" = 400'
0 200 400 600 800

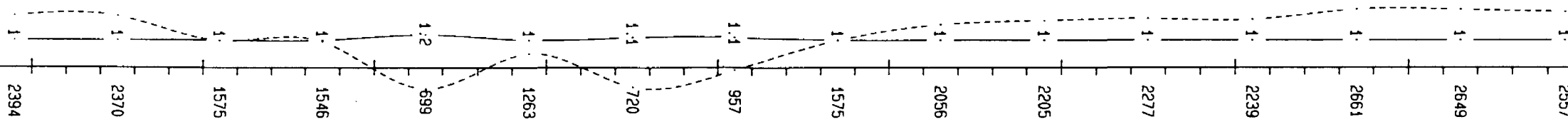
L-308+00 E
5th SEP.

L-308+00 E
METAL FACTOR
(Ef/Res. * 1000%)

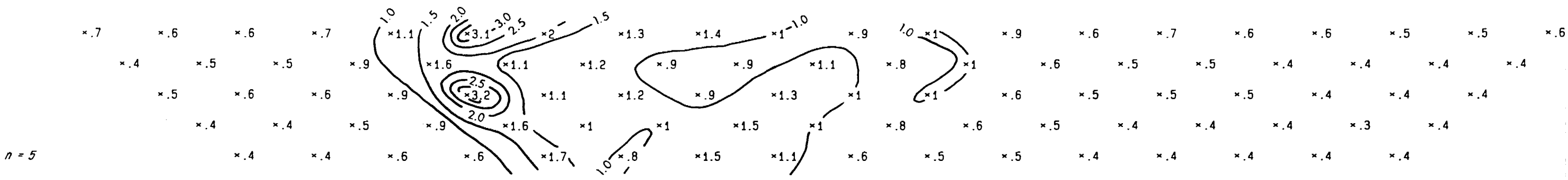
L-308+00 E
FREQUENCY EFFECT

L-308+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)

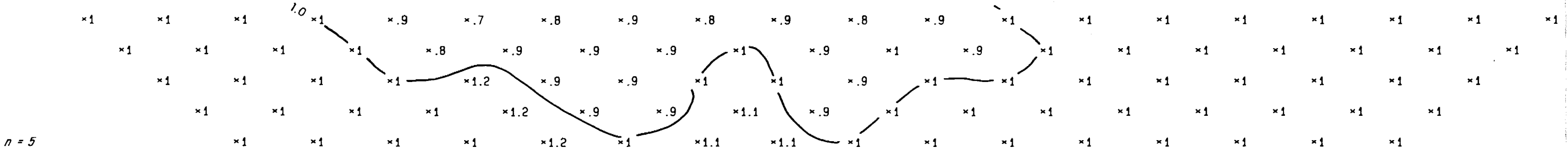




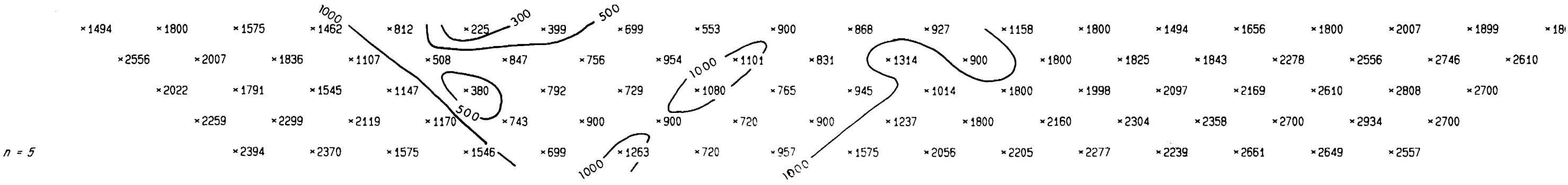
00 N 100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+00 N



00 N 100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+00 N

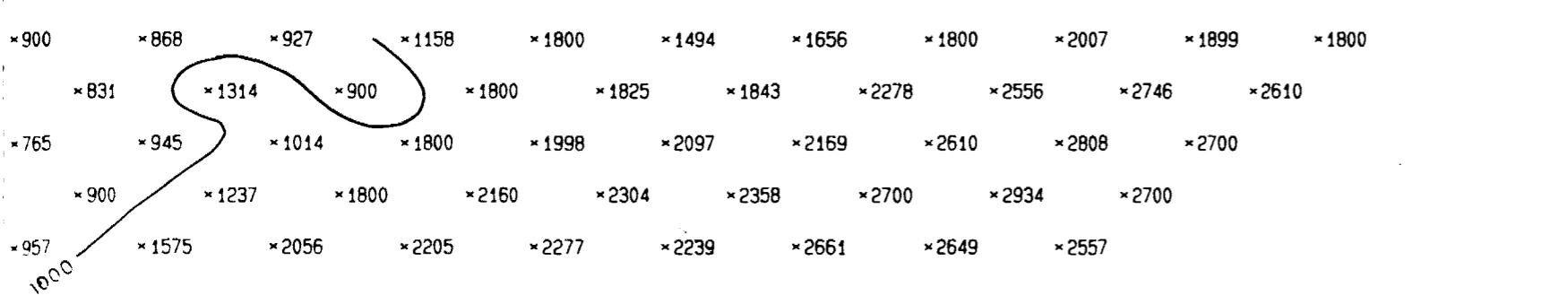
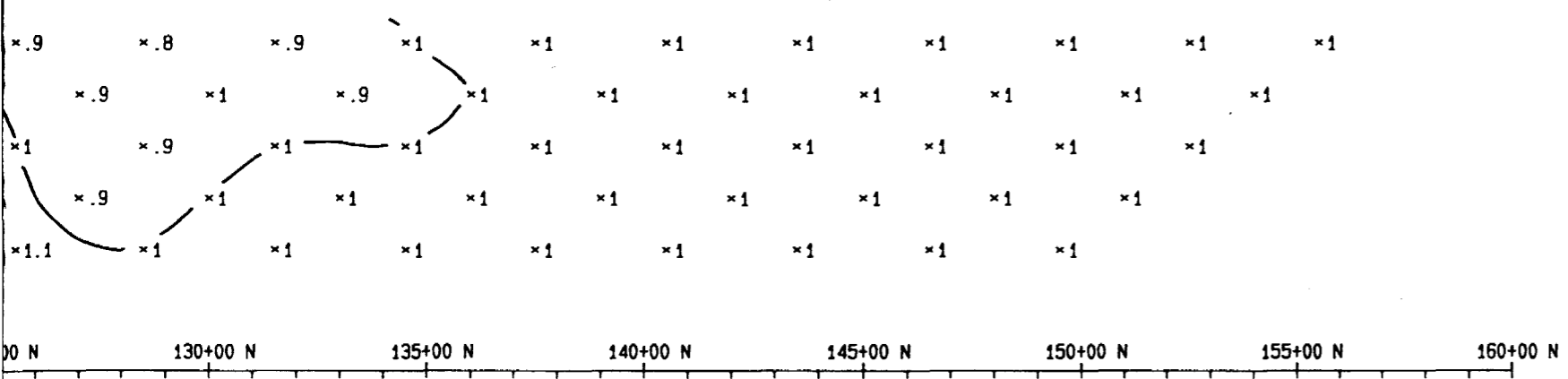
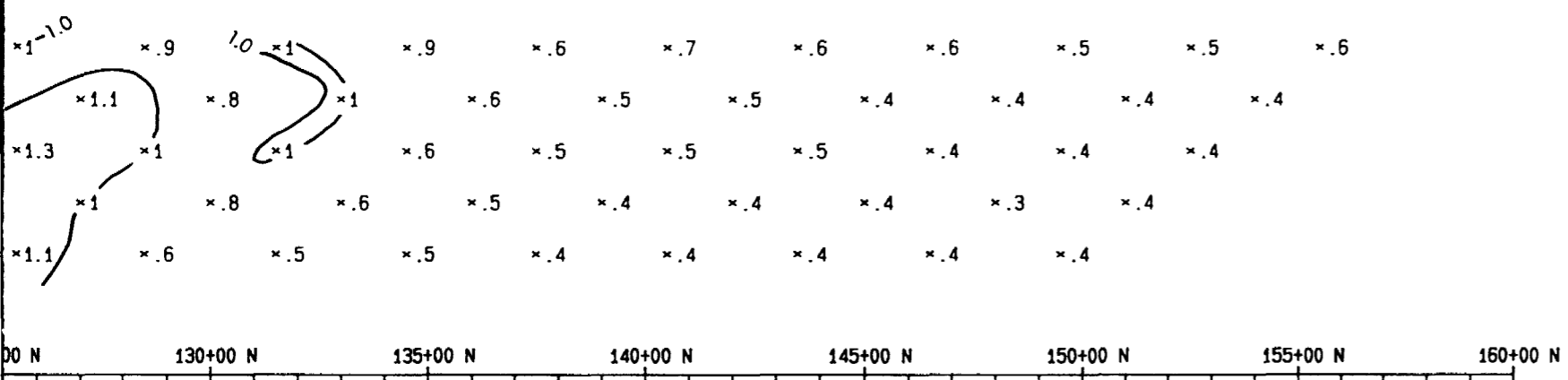
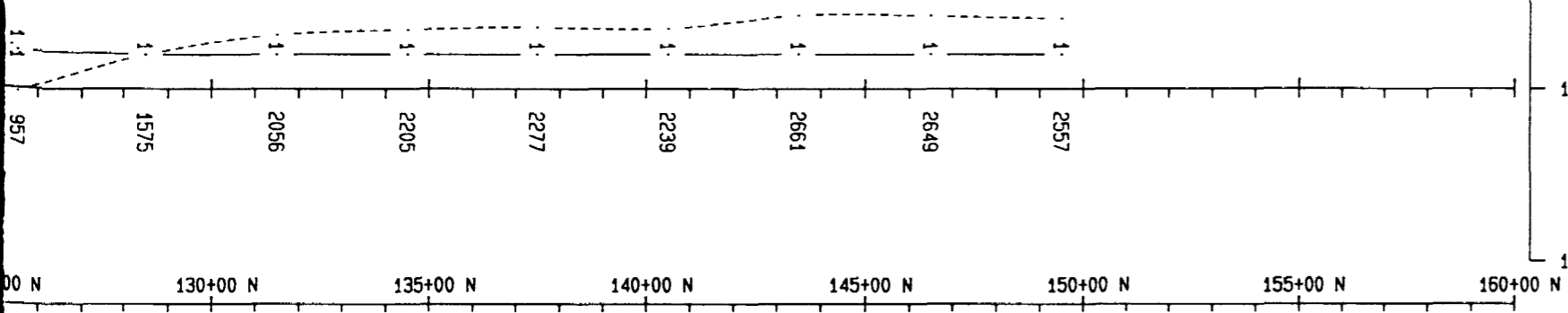


00 N 100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+00 N



1 in. : 1 cycle

10000
1000
100



FALCONBRIDGE LIMITED

MICHAUD TOWNSHIP

INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

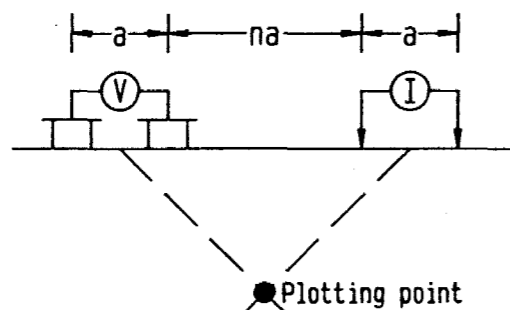
Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & 30 Hz.

Separation of electrodes : a = 300 feet

Separation between dipole : n = 1, 2, 3, 4, 5

CONFIGURATION OF ELECTRODES



Operators: G. Beier

63,4487

L-312+00 E

BY : GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

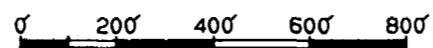
INTERPRETED BY :

DRAWN BY : J. Proulx, Tech. July 1984

N.T.S.: 42A/B PLAN NO : 84-975-14

GARRISON CREEK
Michaud twp., Ontario

Scale : 1" = 400'

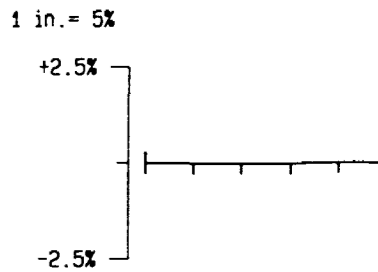


L-312+00 E
5th SEP.

L-312+00 E
METAL FACTOR
(Ef/Res. * 1000%)

L-312+00 E
FREQUENCY EFFECT

L-312+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)



90+00 N 95

n = 1

n = 2

n = 3

n =

90+00 N 95

n = 1

n = 2

n = 3

n =

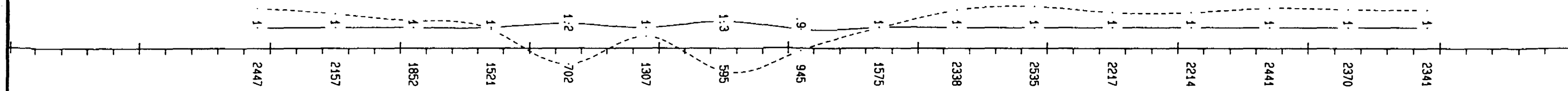
90+00 N 95

n = 1

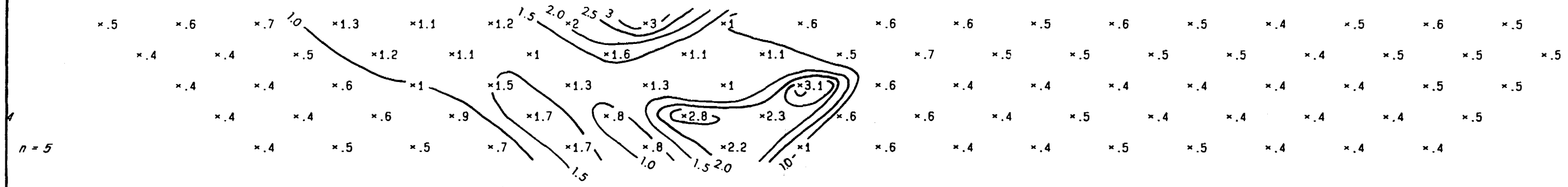
n = 2

n = 3

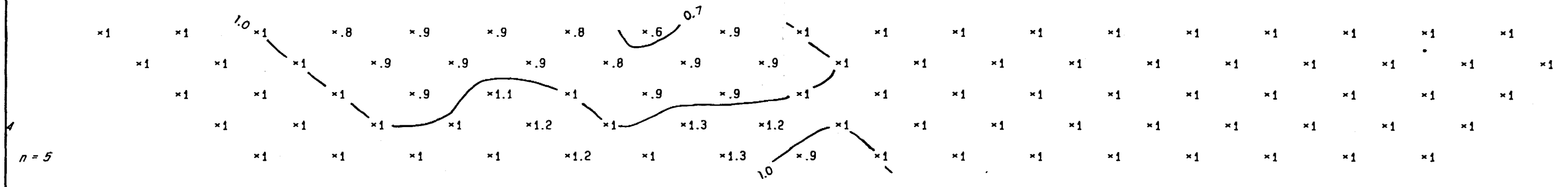
n =



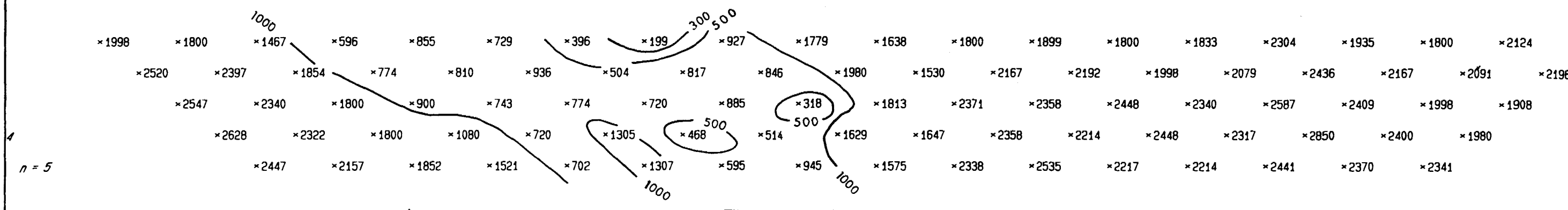
+00 N 100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+00 N



+00 N 100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+00 N



+00 N 100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+00 N

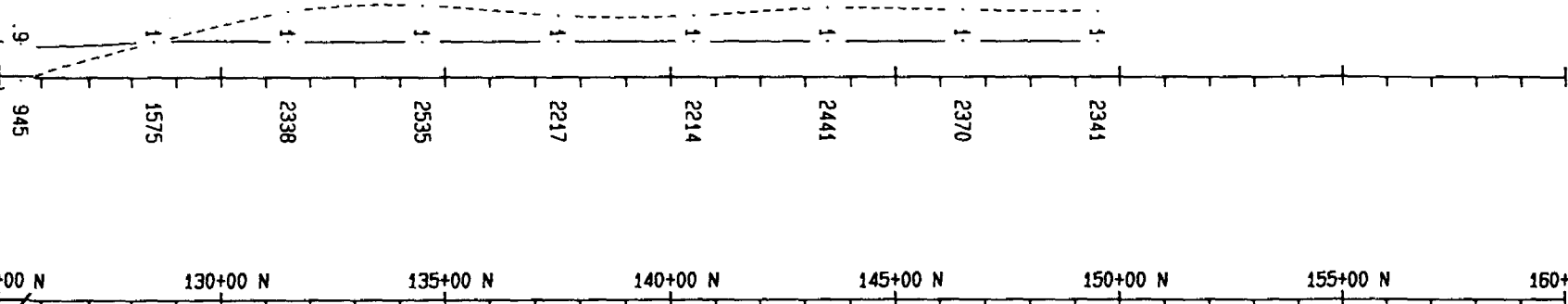


1 in. : 1 cycle

10000

1000

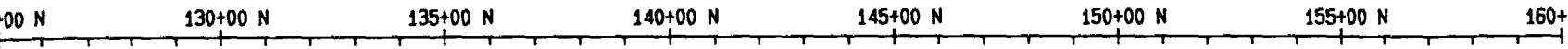
100



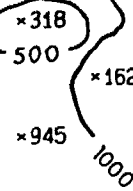
*.6	*.6	*.6	*.5	*.6	*.5	*.4	*.5	*.6	*.5	*.4
*.5	*.7	*.5	*.5	*.5	*.5	*.4	*.5	*.5	*.5	*.5
*3.1	*.6	*.4	*.4	*.4	*.4	*.4	*.4	*.5	*.5	
*.6	*.6	*.4	*.5	*.4	*.4	*.4	*.4	*.4	*.5	
*1	*.6	*.4	*.4	*.5	*.5	*.4	*.4	*.4		



*1	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1
*1	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1
*1	*1	*1	*1	*1	*1	*1	*1	*1	*1	
*1	*1	*1	*1	*1	*1	*1	*1	*1	*1	
*.9	*1	*1	*1	*1	*1	*1	*1	*1		



*1779	*1638	*1800	*1899	*1800	*1833	*2304	*1935	*1800	*2124	*2259
*1980	*1530	*2167	*2192	*1998	*2079	*2436	*2167	*2091	*2196	
*318	*1813	*2371	*2358	*2448	*2340	*2587	*2409	*1998	*1908	
500	*1629	*1647	*2358	*2214	*2448	*2317	*2850	*2400	*1980	
*945	*1575	*2338	*2535	*2217	*2214	*2441	*2370	*2341		



FALCONBRIDGE LIMITED

MICHAUD TOWNSHIP

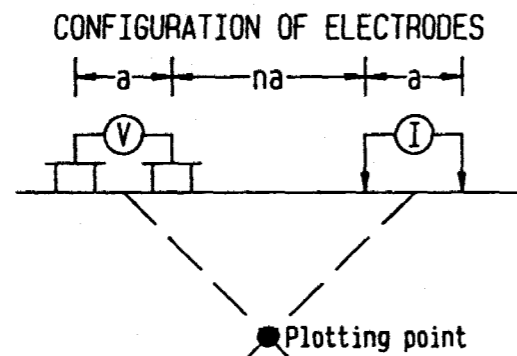
INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : $a = 300$ feet
Separation between dipole : $n = 1, 2, 3, 4, 5$



Operators: G. Beier

63.4487

L-316+00 E

BY : GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

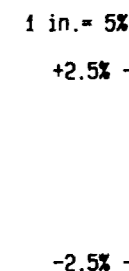
INTERPRETED BY :

DRAWN BY : J. Proulx, Tech. July 1984

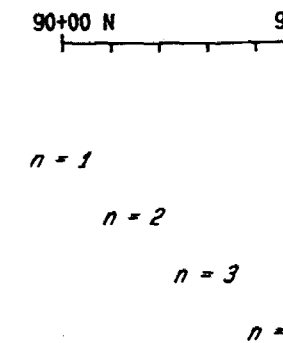
N.T.S.: 42A/B PLAN NO : 84-975-15

GARRISON CREEK
Michaud twp., Ontario
Scale : 1" = 400'
0 200 400 600 800'

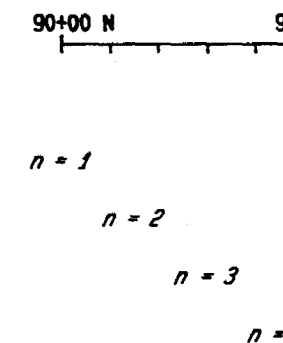
L-316+00 E
5th SEP.



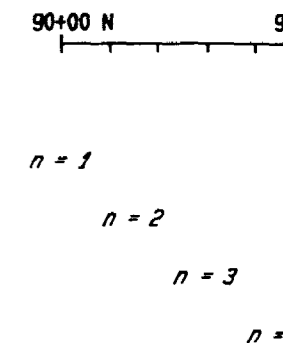
L-316+00 E
METAL FACTOR
(Ef/Res. * 1000%)

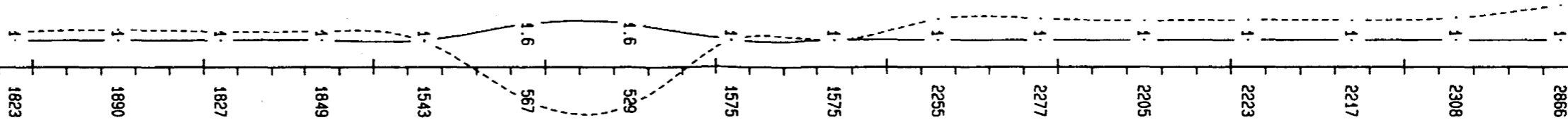


L-316+00 E
FREQUENCY EFFECT

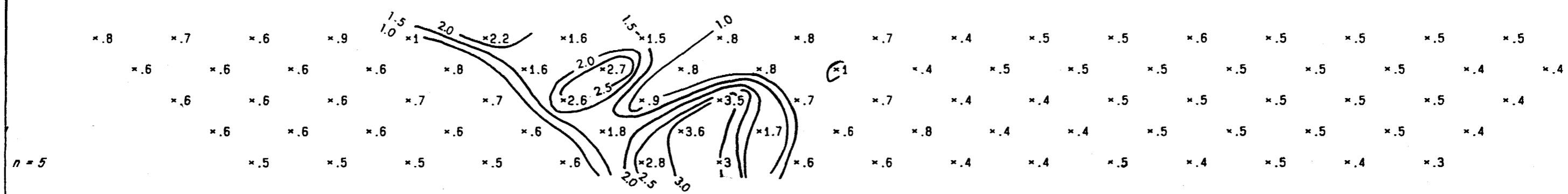


L-316+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)

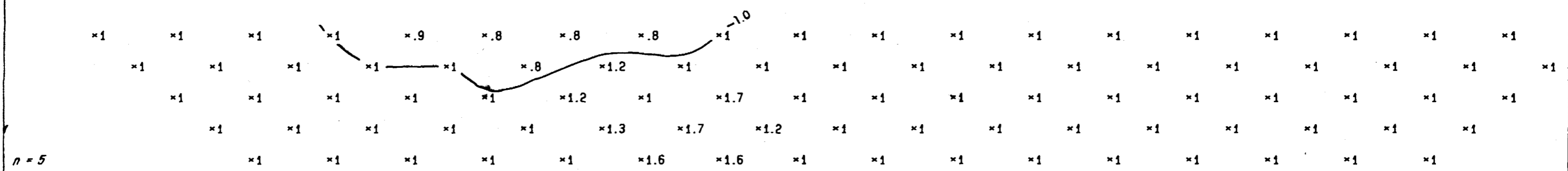




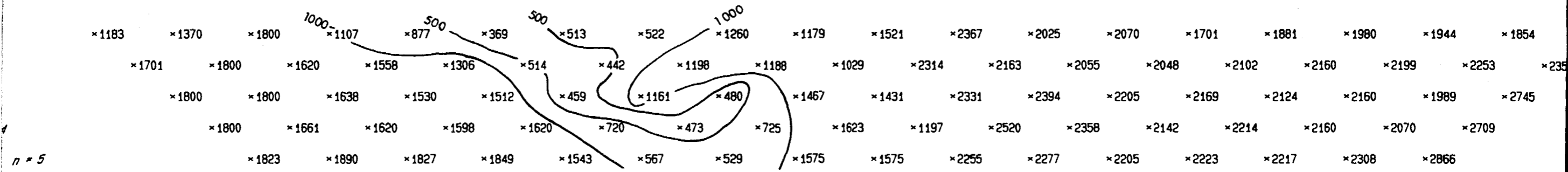
00 N 100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+



00 N 100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155

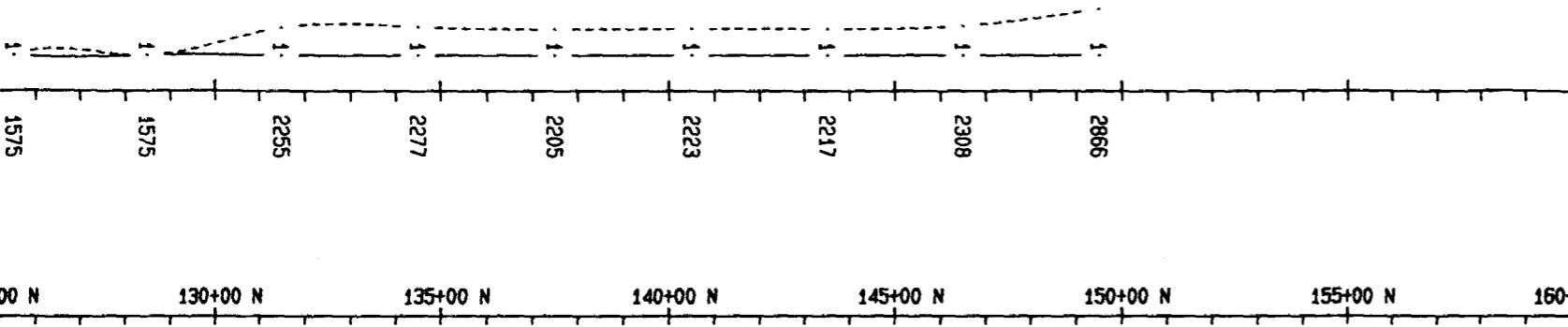


00 N 100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155



1 in. : 1 cycle

10000
1000
100



00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+00 N 160+00 N

*.8	*.7	*.4	*.5	*.5	*.6	*.5	*.5	*.5	*.5	*.5	*.4
*1	*.4	*.5	*.5	*.5	*.5	*.5	*.5	*.5	*.4	*.4	
*.7	*.7	*.4	*.4	*.5	*.5	*.5	*.5	*.5	*.5	*.4	
*.6	*.8	*.4	*.4	*.5	*.5	*.5	*.5	*.5	*.5	*.4	
*.6	*.6	*.4	*.4	*.5	*.4	*.5	*.4	*.4	*.3		

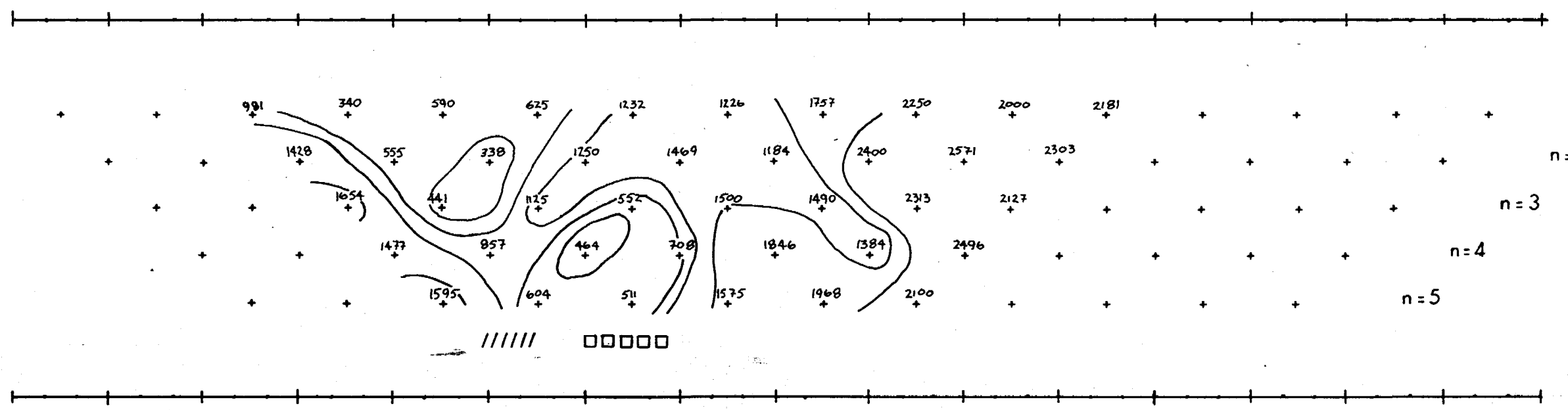
00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+00 N 160+00 N

*1	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1
	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1
*1	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1	
	*1	*1	*1	*1	*1	*1	*1	*1	*1		
*1	*1	*1	*1	*1	*1	*1	*1	*1			

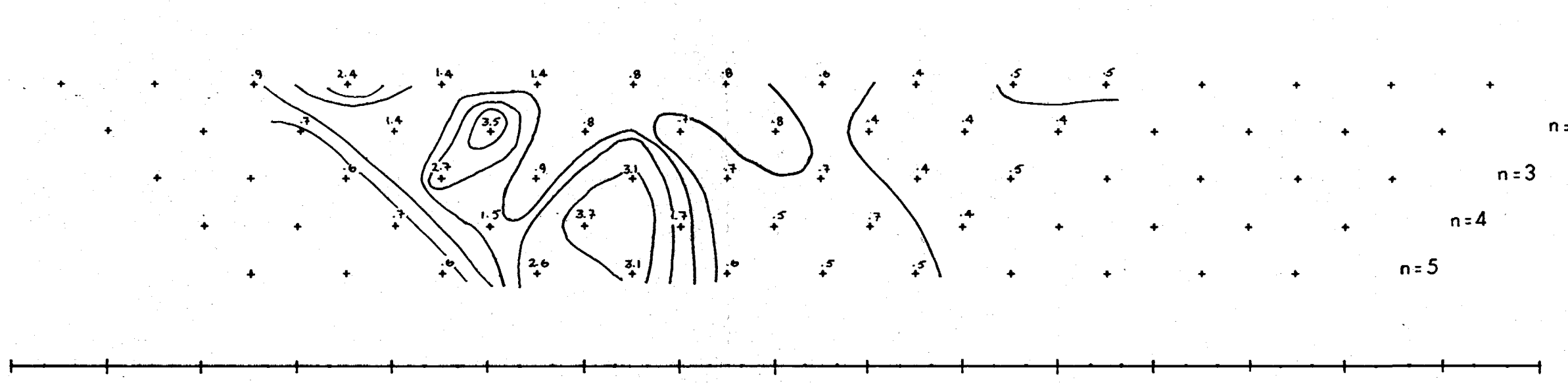
00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+00 N 160+00 N

*1179	*1521	*2367	*2025	*2070	*1701	*1881	*1980	*1944	*1854	*2812
*1029	*2314	*2163	*2055	*2048	*2102	*2160	*2199	*2253	*2358	
*1467	*1431	*2331	*2394	*2205	*2169	*2124	*2160	*1989	*2745	
*1623	*1197	*2520	*2358	*2142	*2214	*2160	*2070	*2709		
*1575	*1575	*2255	*2277	*2205	*2223	*2217	*2308	*2866		

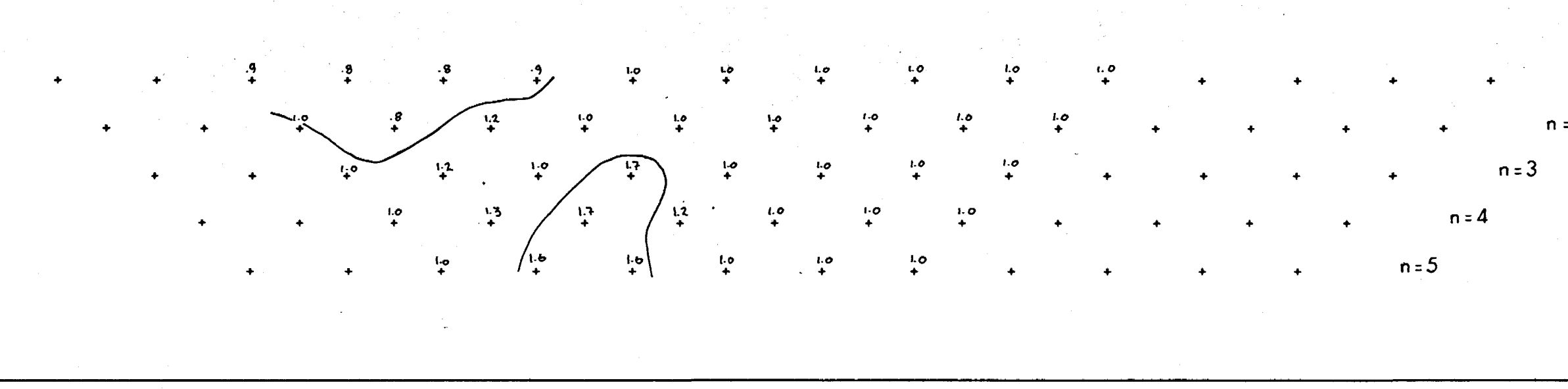
109N 112N 115N 118N 121N 124N B.L. 127N 130N 133N 136N 139N



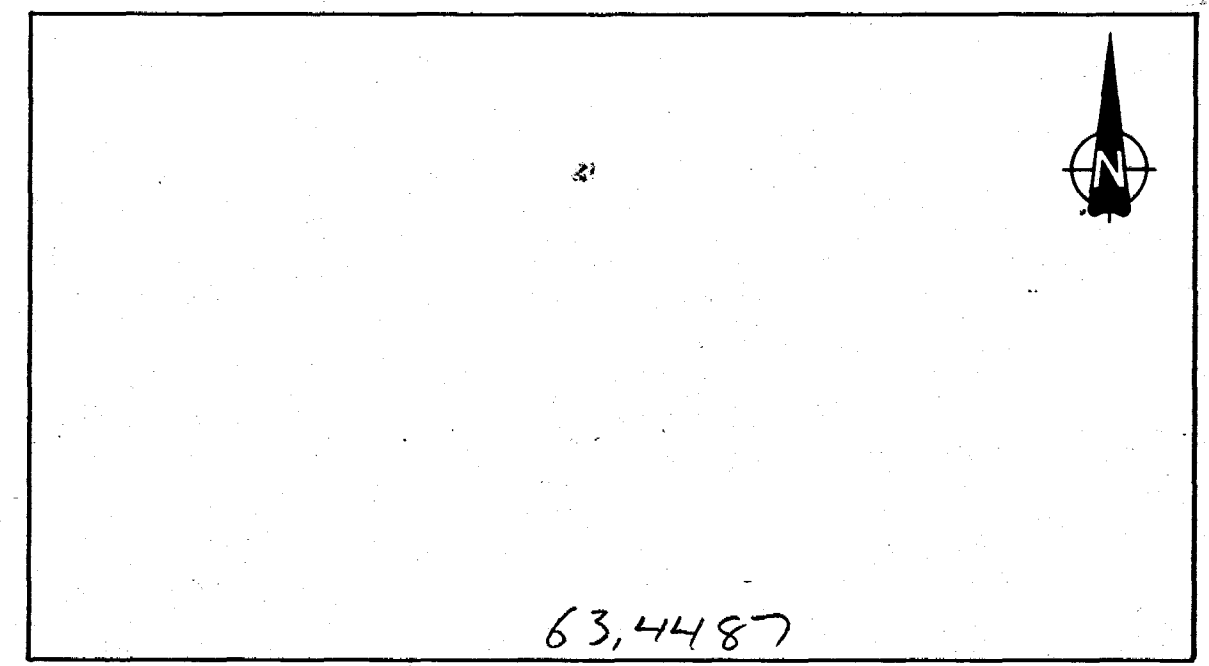
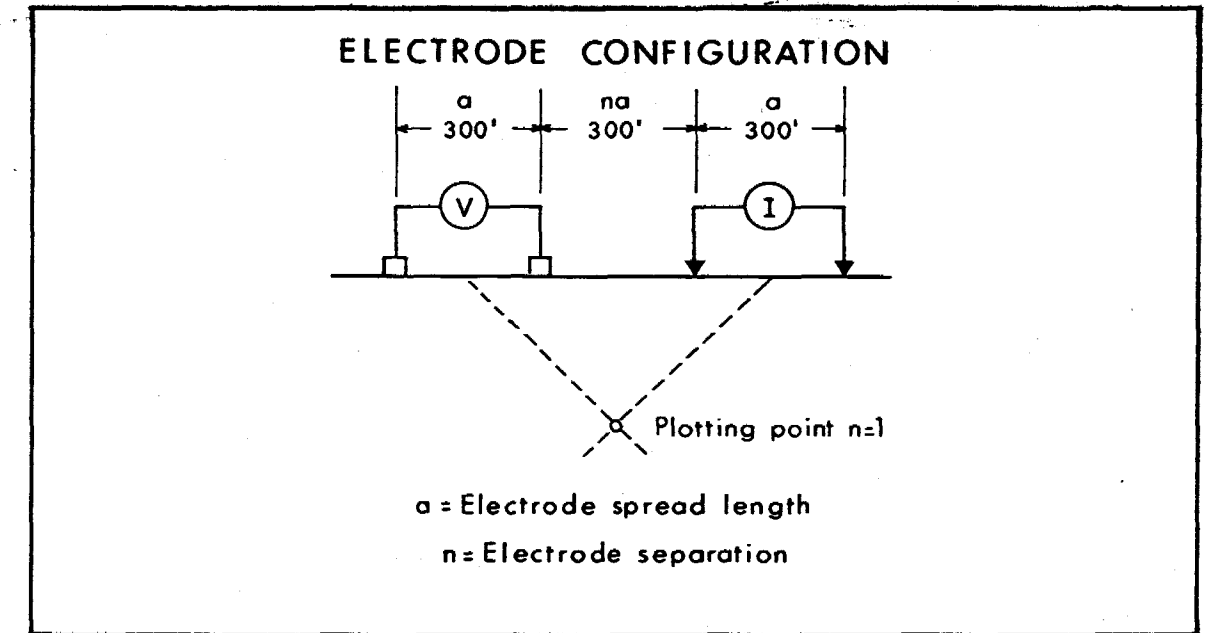
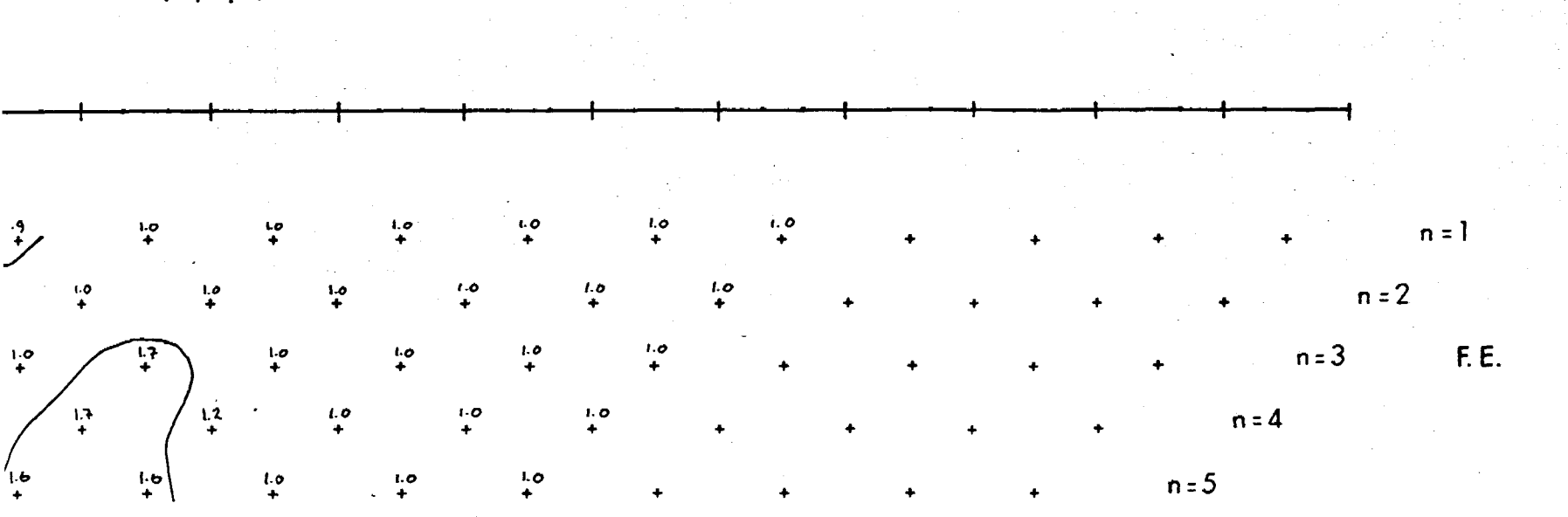
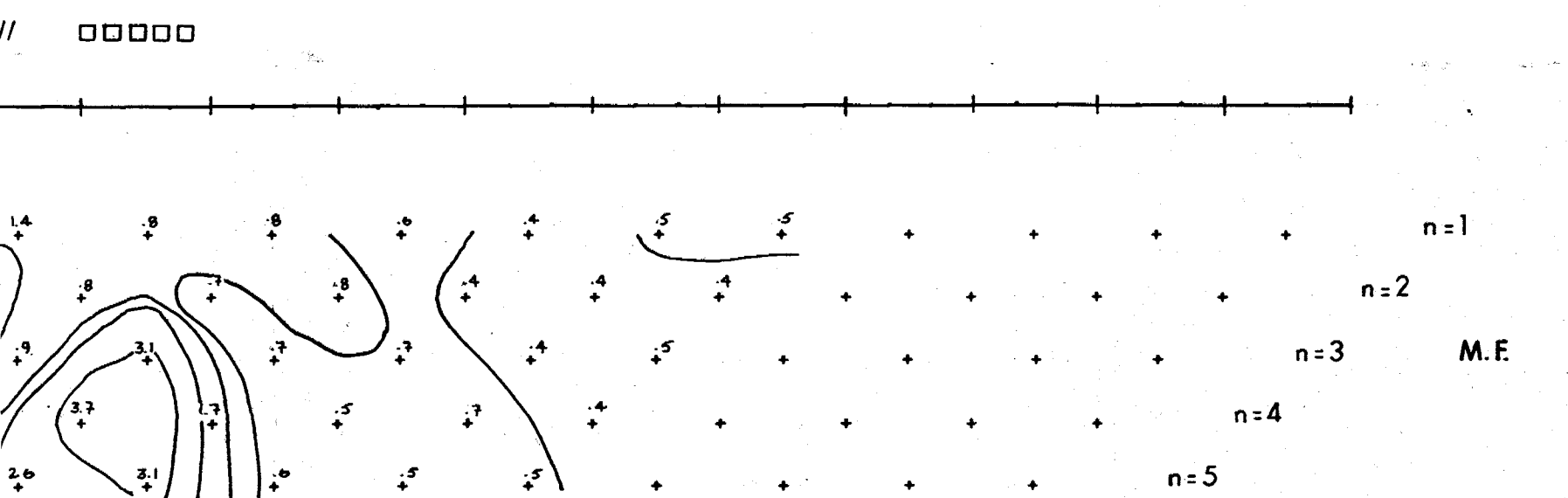
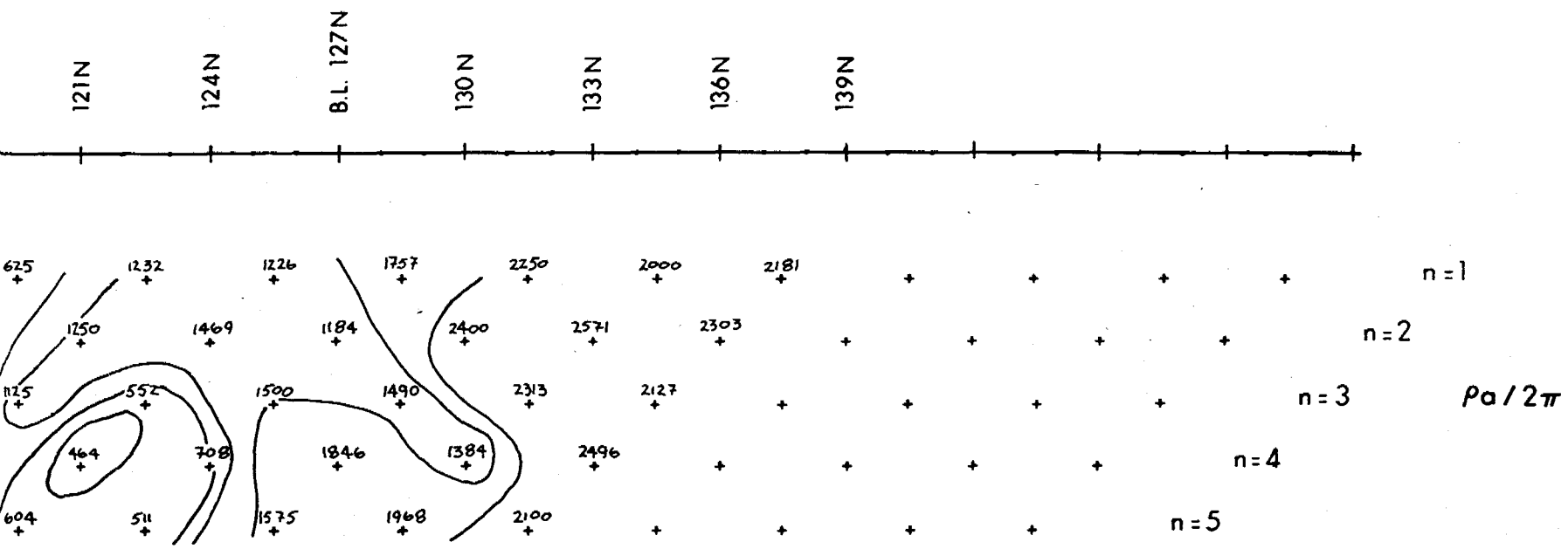
n=1
n=2
n=3 $Pa/2\pi$



n=1
n=2
n=3 M.F.



n=1
n=2
n=3 F.E.



FALCONBRIDGE LTD.

MARCHAUD OPTION
 LUDGATE LAKE ZONE
 MICHAUD TWP.
INDUCED POLARIZATION
 Dipole - Dipole a=300 ft, n=1,2,3,4,5
 PSEUDO - SECTION
 L 316 + 00E
 B.L. 127-00N

Executed by: G. Beier	Sept. 1983	Scale: 1/4800
Drawn by: Geodes inc.	Oct. 1983	0 400' 800'
Approved by:		620003

FALCONBRIDGE LIMITED

MICHAUD TOWNSHIP

INDUCED POLARIZATION SURVEY

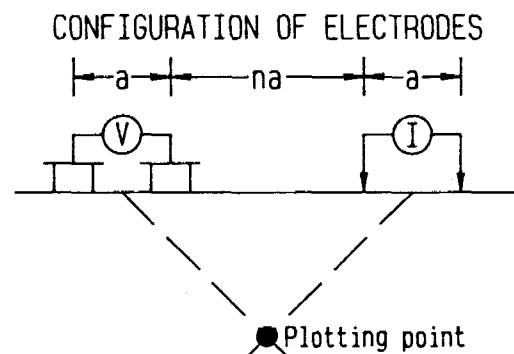
Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : $a = 300$ feet

Separation between dipole : $n = 1, 2, 3, 4, 5$



Operators: G. Beier

63.4487

L-334+00 E

BY : GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

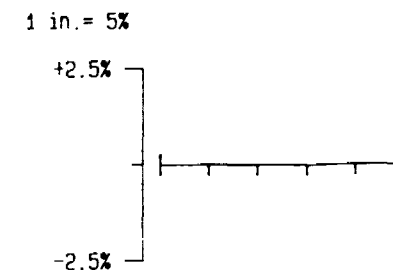
INTERPRETED BY :

DRAWN BY : J. Proulx, Tech. July 1984

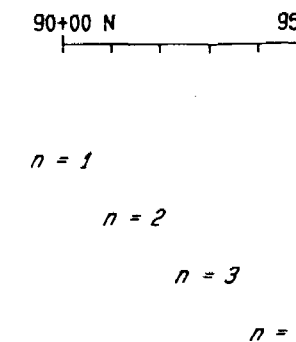
N.T.S.: 42A/8 PLAN NO : 84-975-16

GARRISON CREEK
Michaud twp., Ontario
Scale : 1" = 400'
0 200 400 600 800

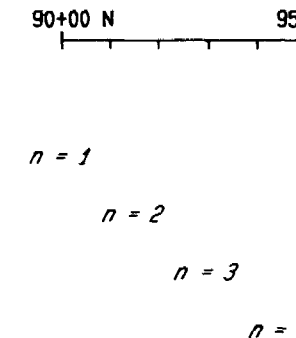
L-334+00 E
5th SEP.



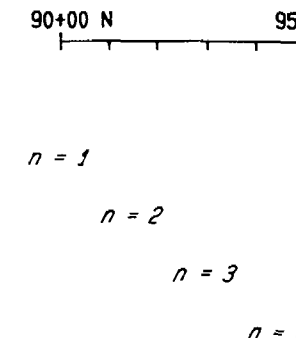
L-334+00 E
METAL FACTOR
(Ef/Res. * 1000%)



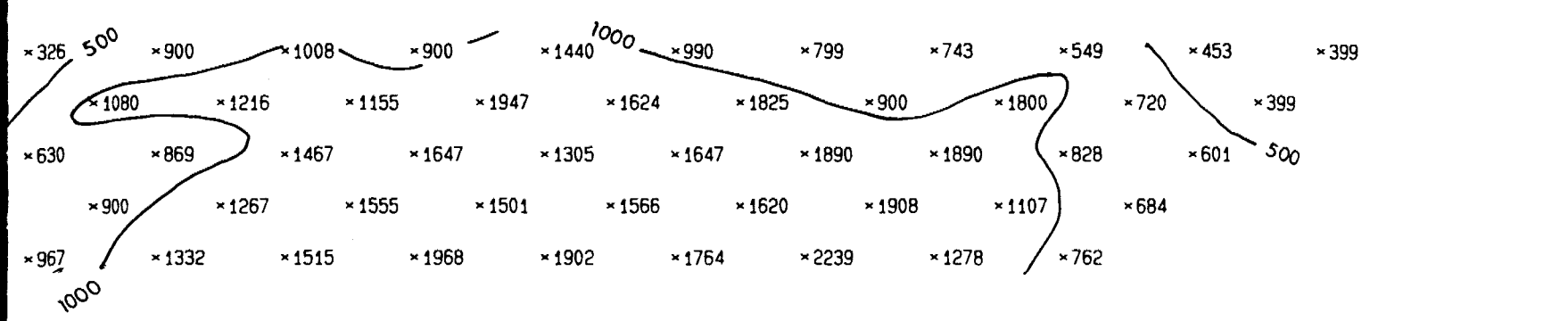
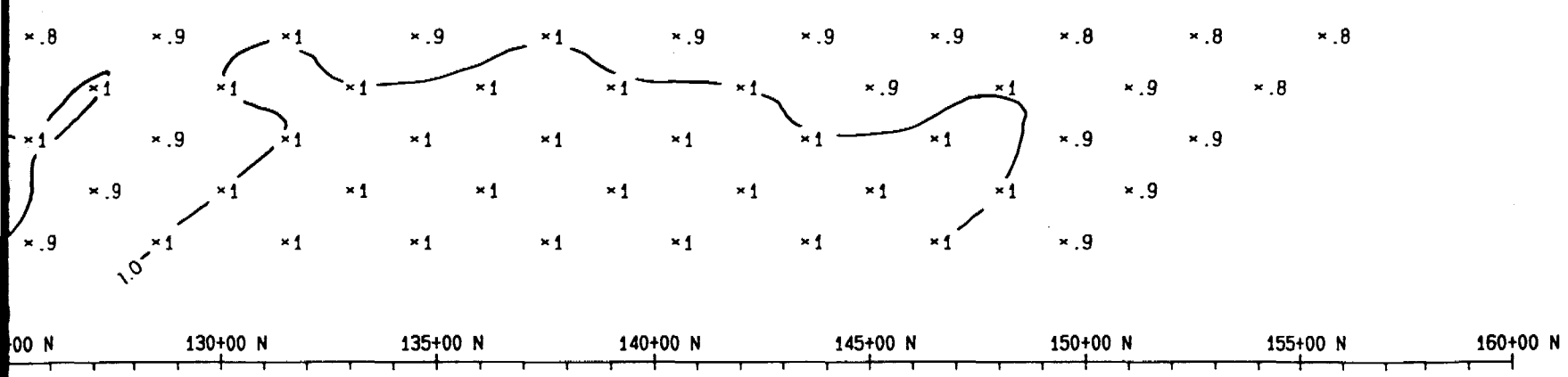
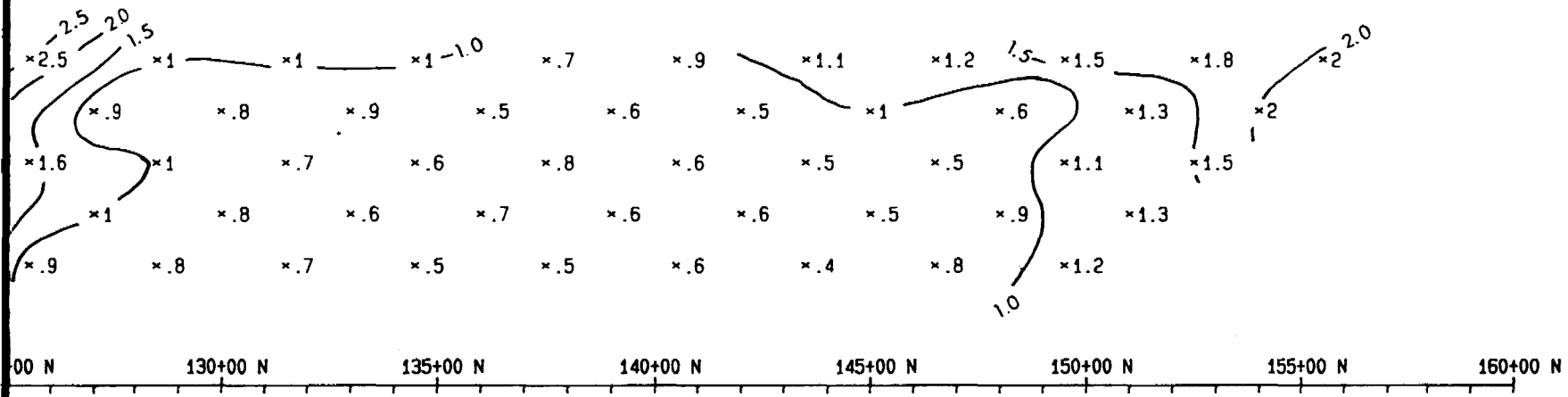
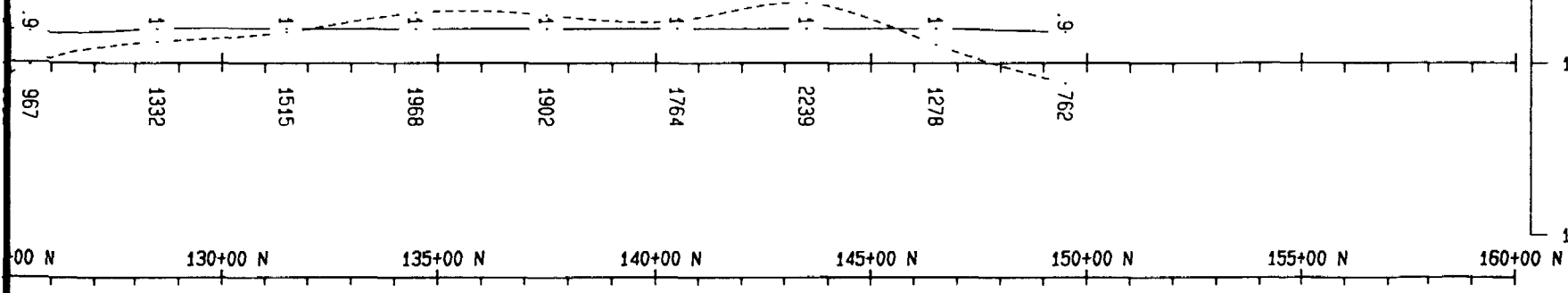
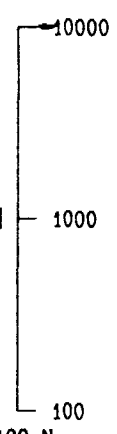
L-334+00 E
FREQUENCY EFFECT



L-334+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)



1 in. : 1 cycle



FALCONBRIDGE LIMITED

MICHAUD TOWNSHIP

INDUCED POLARIZATION SURVEY

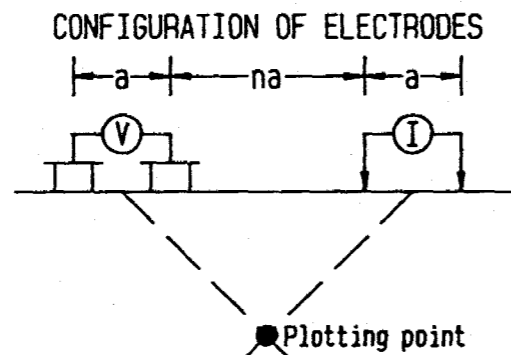
Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet

Separation between dipole : n = 1, 2, 3, 4, 5



Operators: G. Beier

63,4487

L-342+00 E

BY : GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

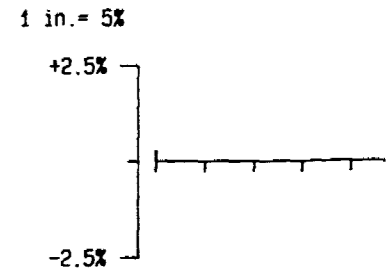
INTERPRETED BY :

DRAWN BY : J. Proulx, Tech. July 1984

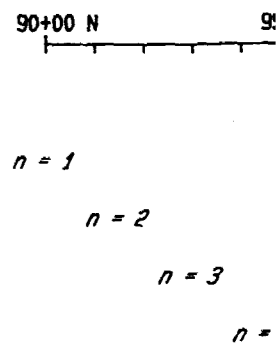
N.T.S.: 42A/B PLAN NO : 84-975-17

GARRISON CREEK
Michaud tmp., Ontario
Scale : 1" = 400'
0 200 400 600 800

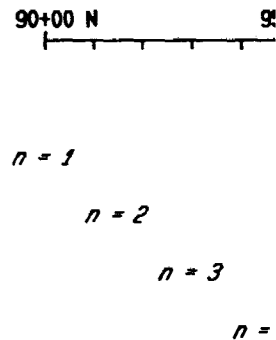
L-342+00 E
5th SEP.



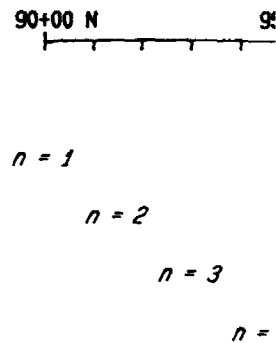
L-342+00 E
METAL FACTOR
(Ef/Res. * 1000%)



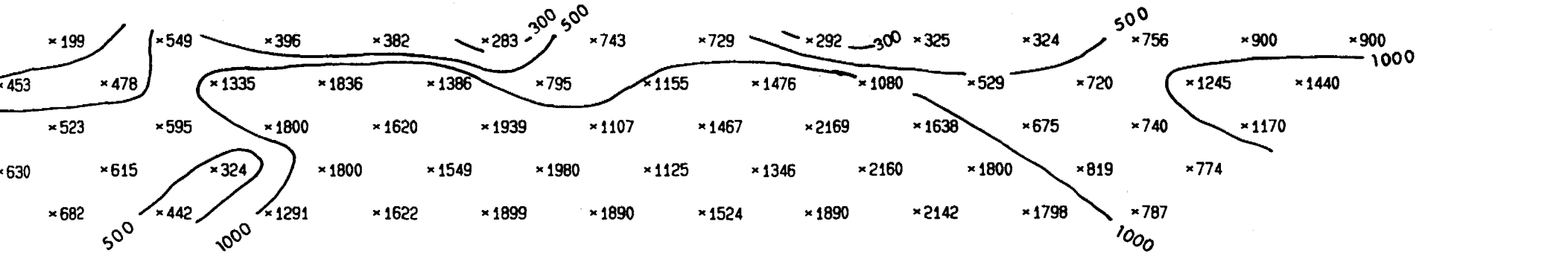
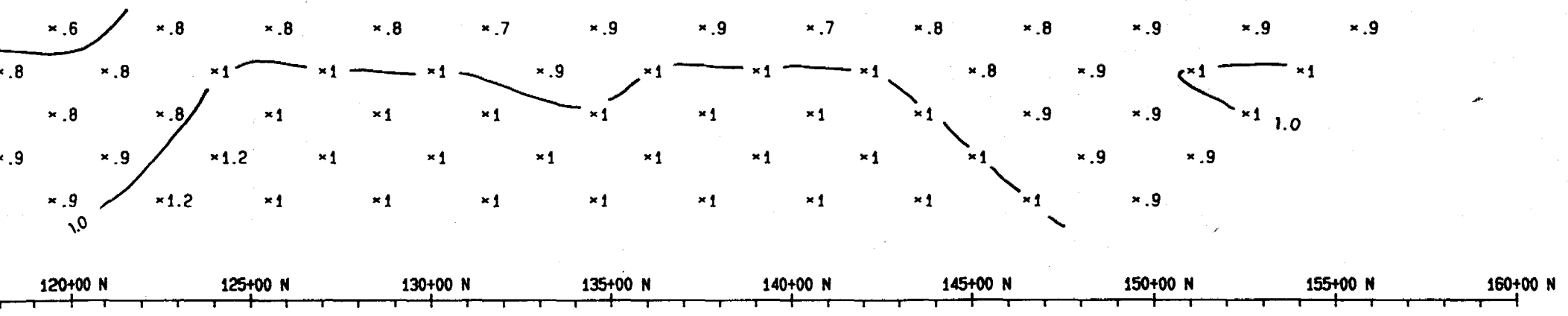
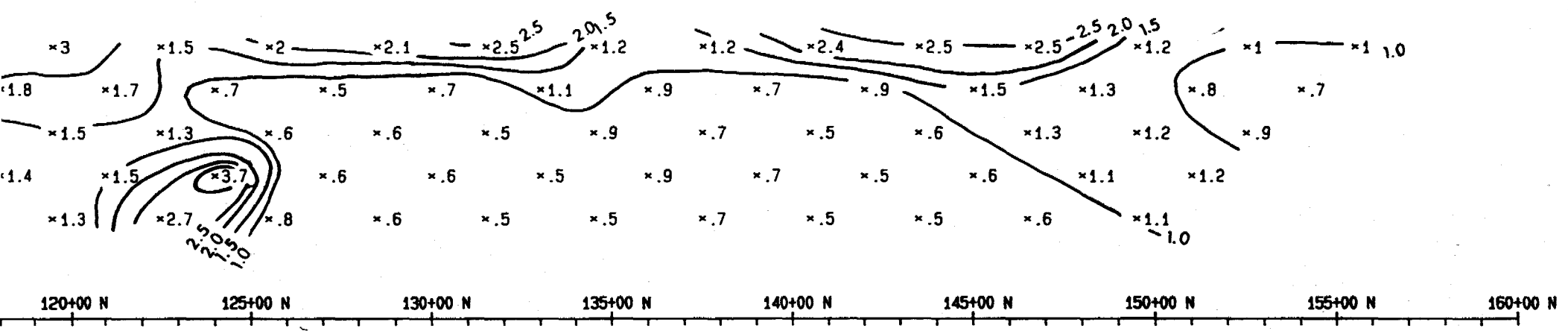
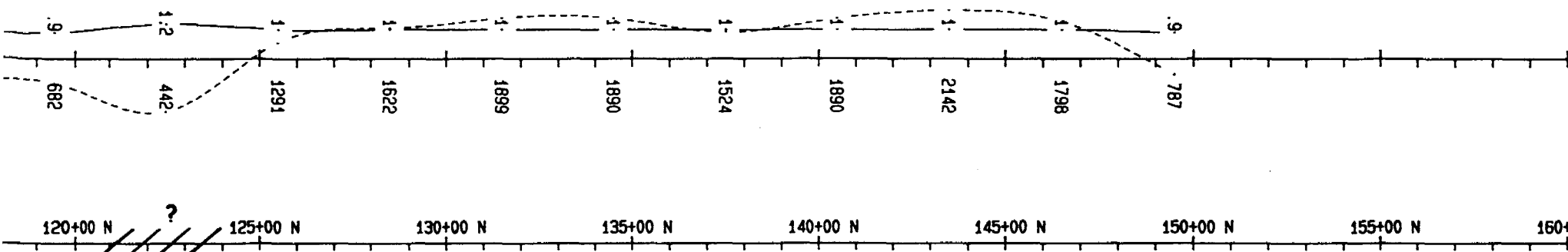
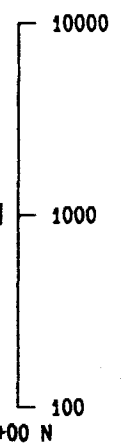
L-342+00 E
FREQUENCY EFFECT



L-342+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)



1 in. : 1 cycle



FALCONBRIDGE LIMITED

MICHAUD TOWNSHIP

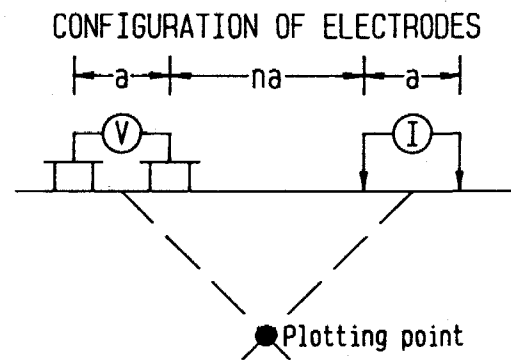
INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet
Separation between dipole : n = 1, 2, 3, 4, 5



Operators: G. Beier

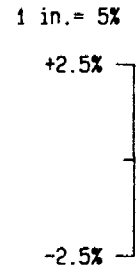
63.4487

L-344+00 E

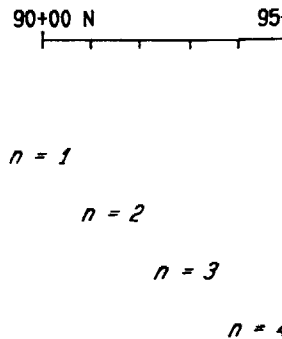
BY :	GÉOLA LTÉE	
EXECUTED BY :	G. Beier	May 1984
INTERPRETED BY :		
DRAWN BY :	J. Proulx, Tech.	July 1984
N.T.S.:	42A/B	PLAN NO : 84-975-18

GARRISON CREEK
Michaud twp., Ontario
Scale : 1" = 400'

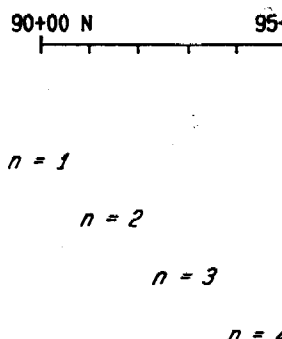
L-344+00 E
5th SEP.



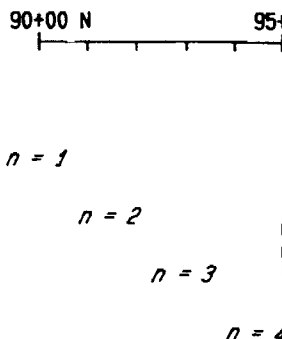
L-344+00 E
METAL FACTOR
(Ef/Res. * 1000%)

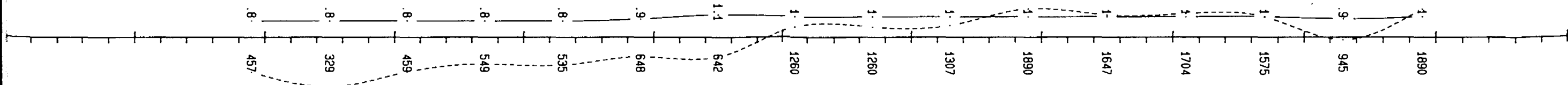


L-344+00 E
FREQUENCY EFFECT

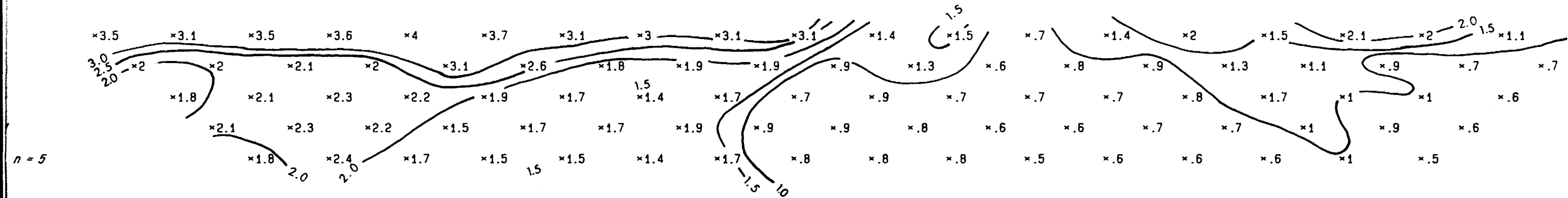


L-344+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)

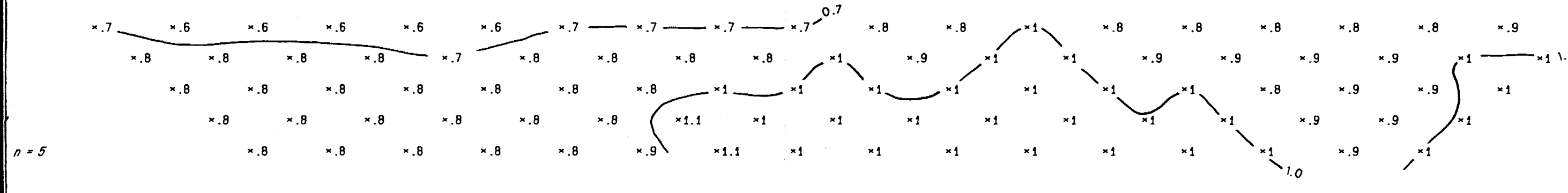




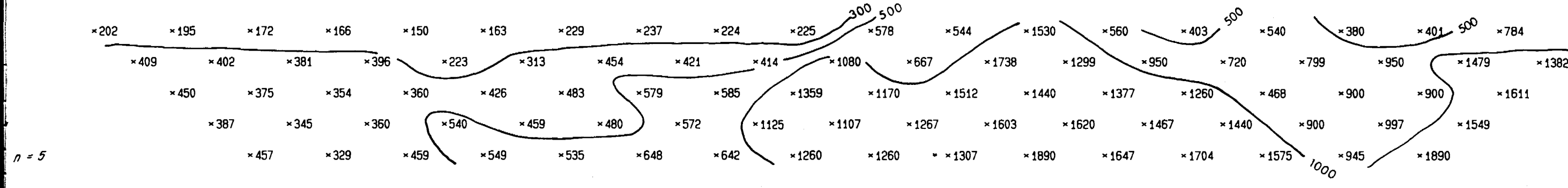
00 N 100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+



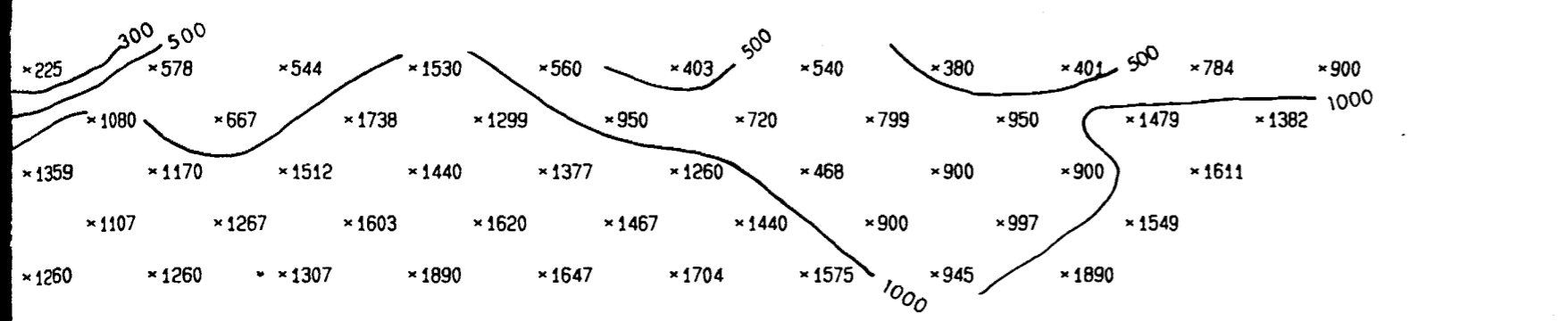
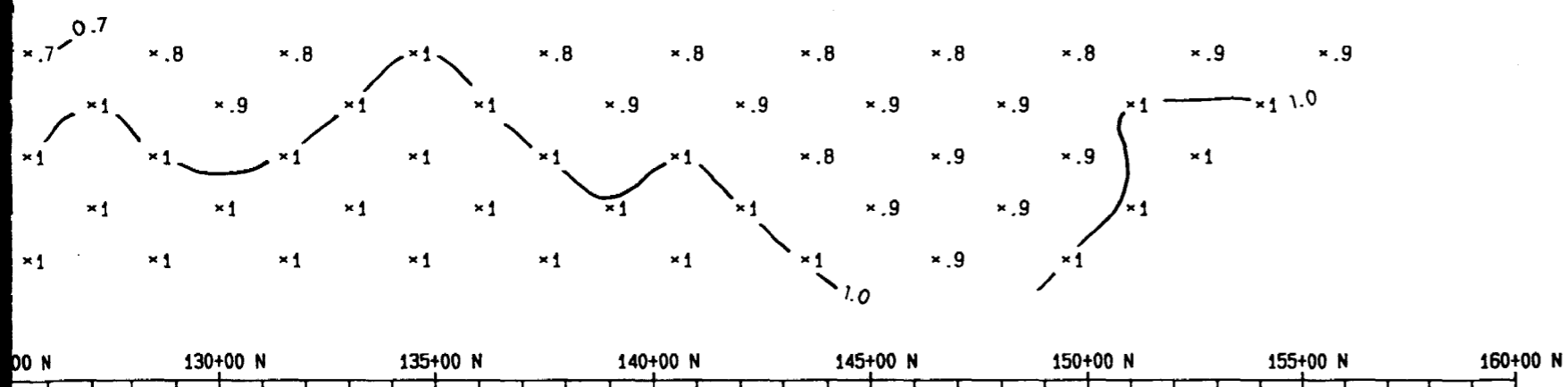
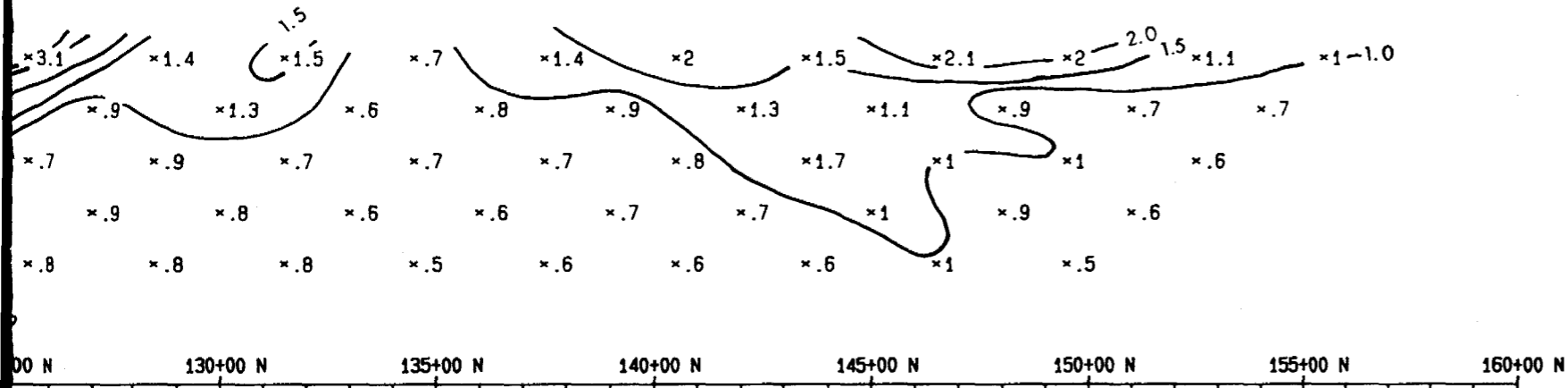
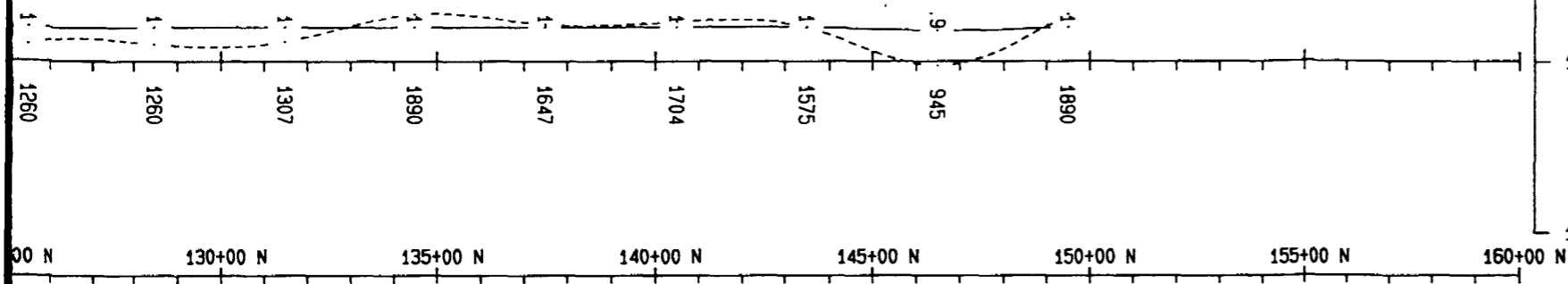
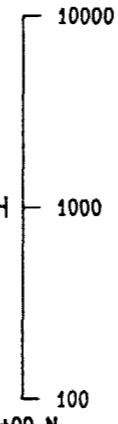
00 N 100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+



00 N 100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+



1 in. : 1 cycle



FALCONBRIDGE LIMITED

MICHAUD TOWNSHIP

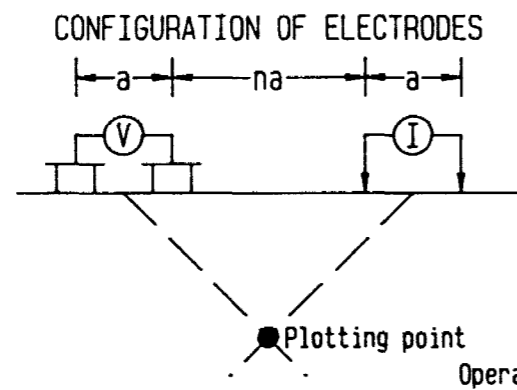
INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet
Separation between dipole : n = 1, 2, 3, 4, 5



63,4487

L-348+00 E

BY :	GÉOLA LTÉE	
EXECUTED BY :	G. Beier	May 1984
INTERPRETED BY :		
DRAWN BY :	J. Proulx, Tech.	July 1984
N.T.S.:	42A/B	PLAN NO : 84-975-19

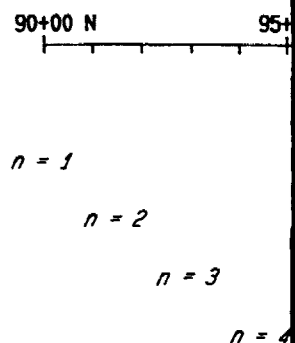
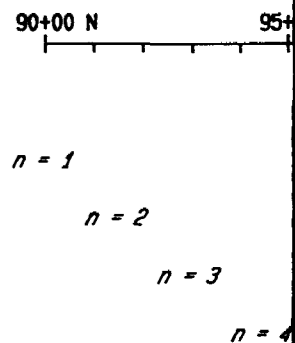
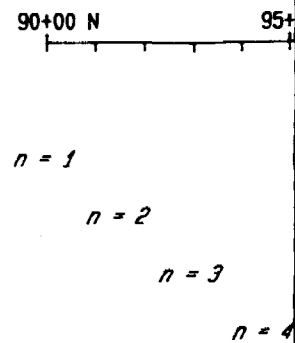
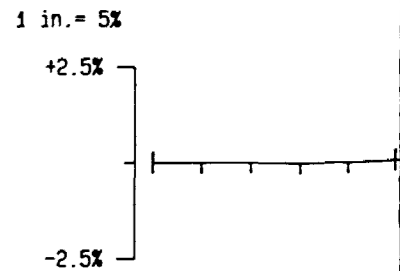
GARRISON CREEK
Michaud tmp., Ontario
Scale : 1" = 400'

L-348+00 E
5th SEP.

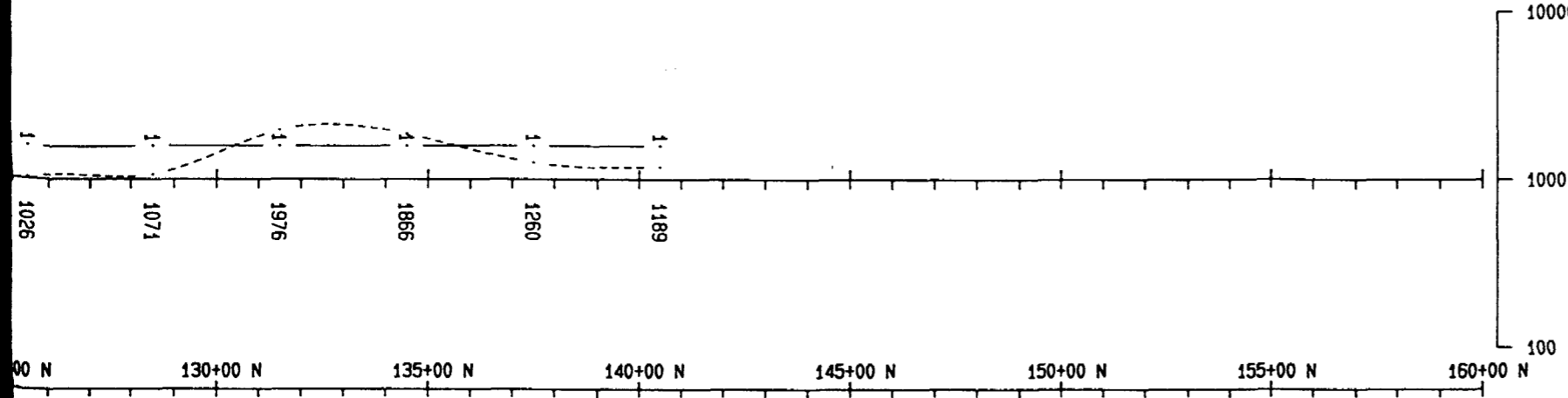
L-348+00 E
METAL FACTOR
(E_f/Res. * 1000%)

L-348+00 E
FREQUENCY EFFECT

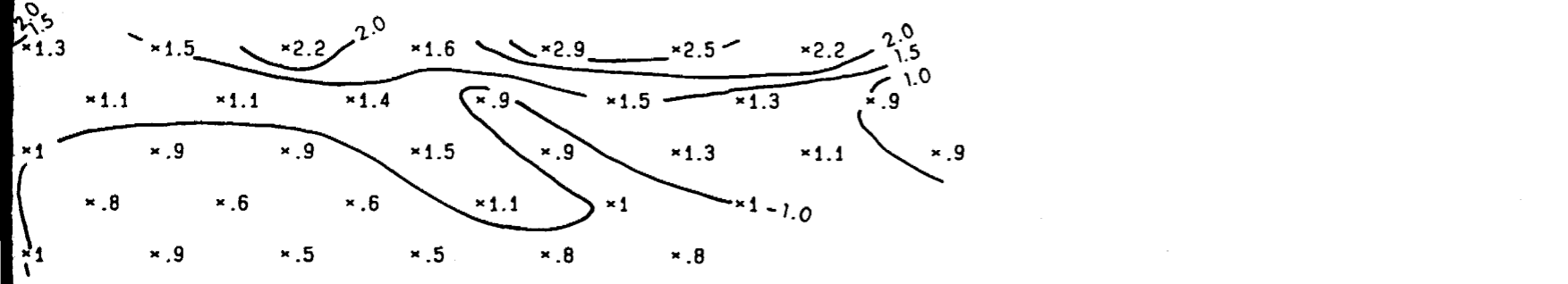
L-348+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)



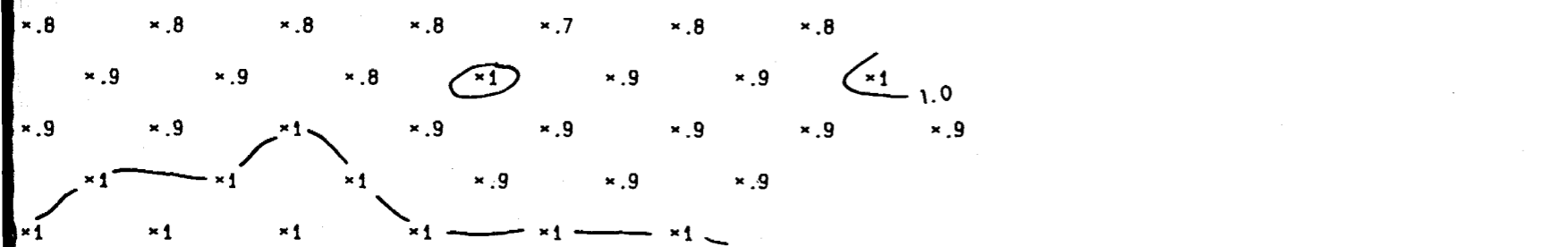
1 in. : 1 cycle



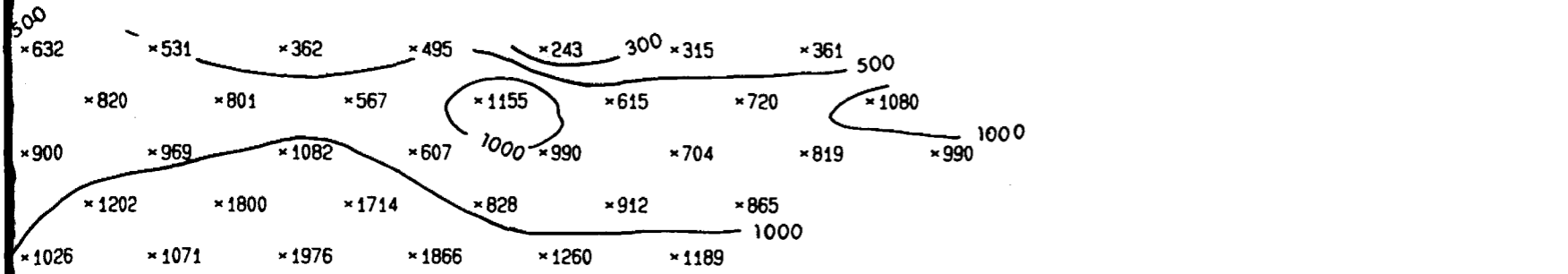
00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+00 N 160+00 N



00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+00 N 160+00 N



00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+00 N 160+00 N



FALCONBRIDGE LIMITED

MICHAUD TOWNSHIP

INDUCED POLARIZATION SURVEY

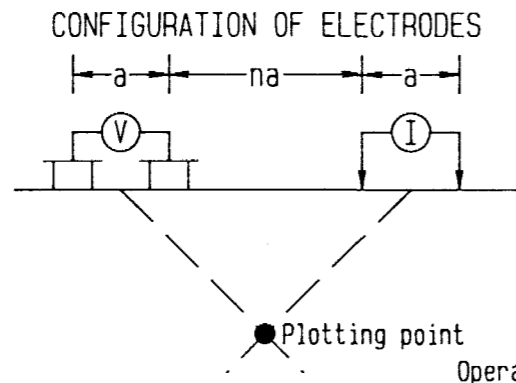
Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet

Separation between dipole : n = 1, 2, 3, 4, 5



63.4487

L-356+00 E

BY : GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

INTERPRETED BY :

DRAWN BY : J. Proulx, Tech. July 1984

N.T.S.: 42A/B PLAN NO : 84-975-20

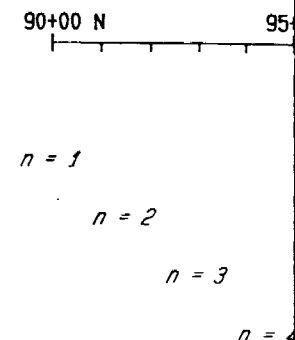
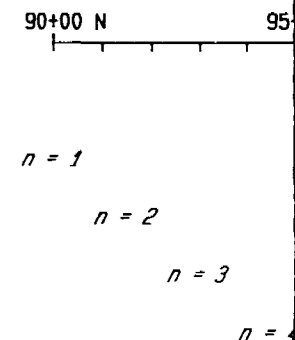
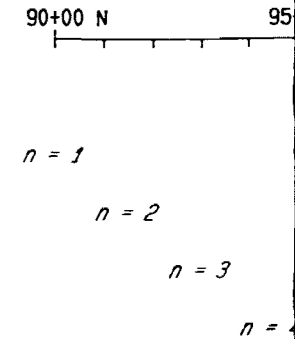
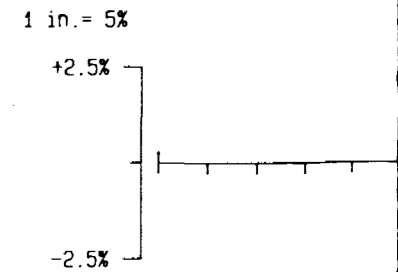
GARRISON CREEK
Michaud twp., Ontario
Scale : 1" = 400'
0 200 400 600 800

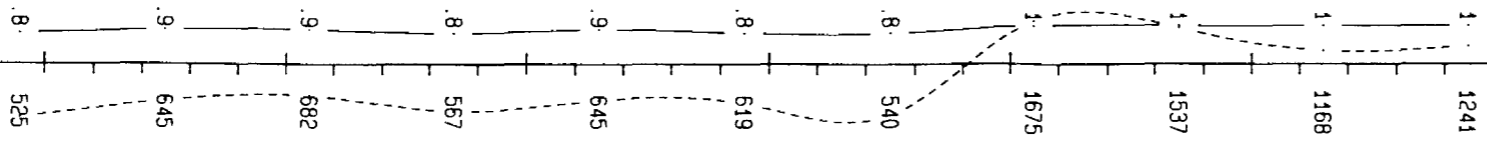
L-356+00 E
5th SEP.

L-356+00 E
METAL FACTOR
(E_f/Res. * 1000%)

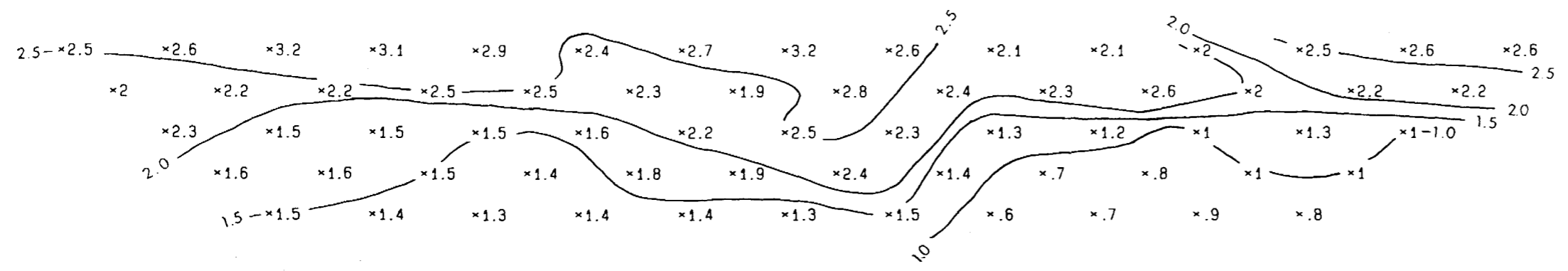
L-356+00 E
FREQUENCY EFFECT

L-356+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)

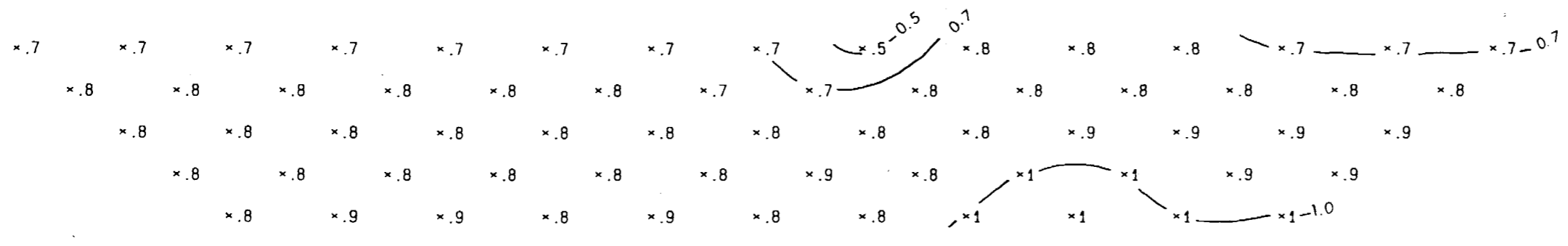




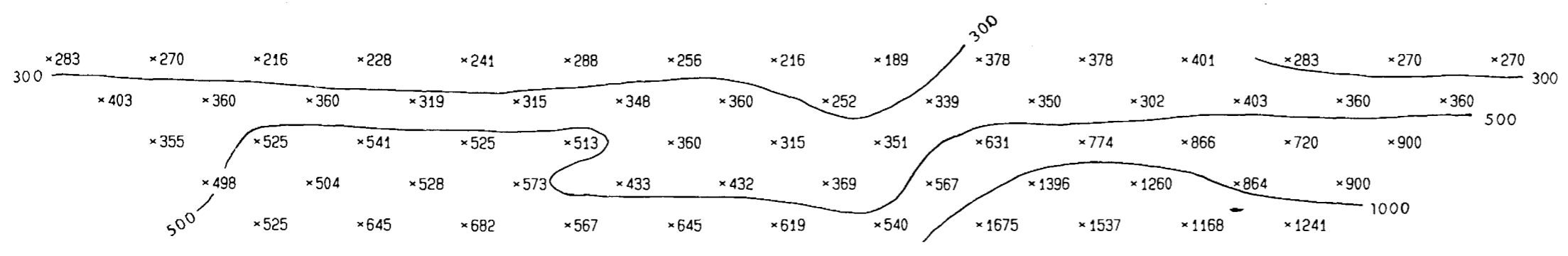
100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+00 N



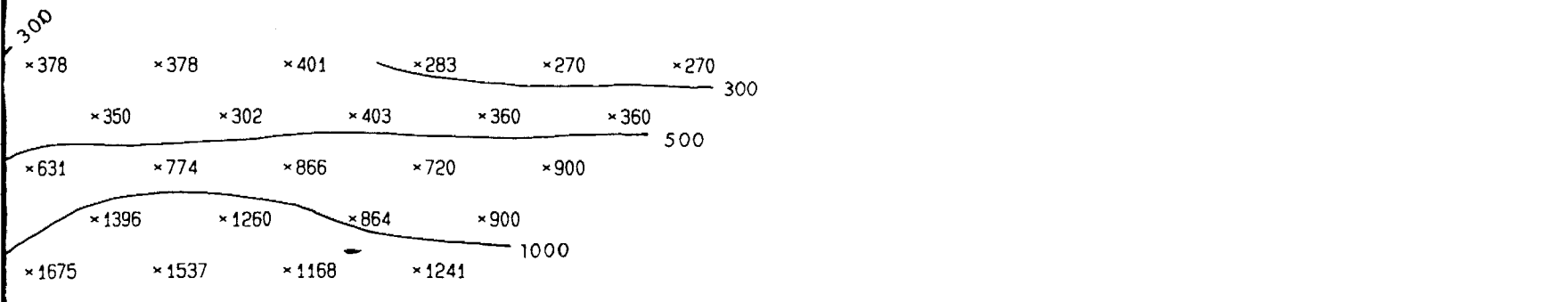
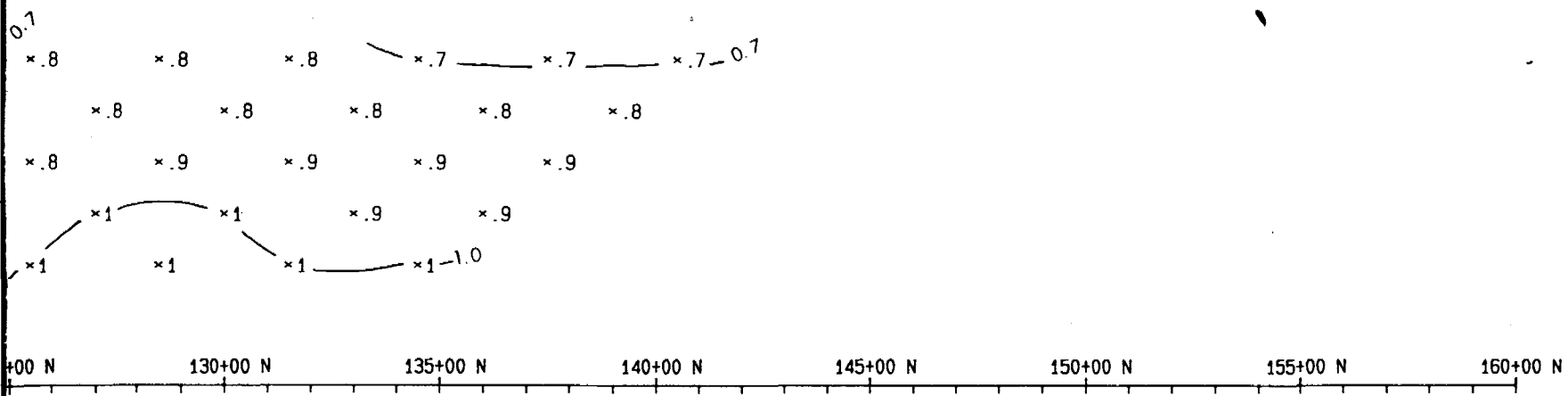
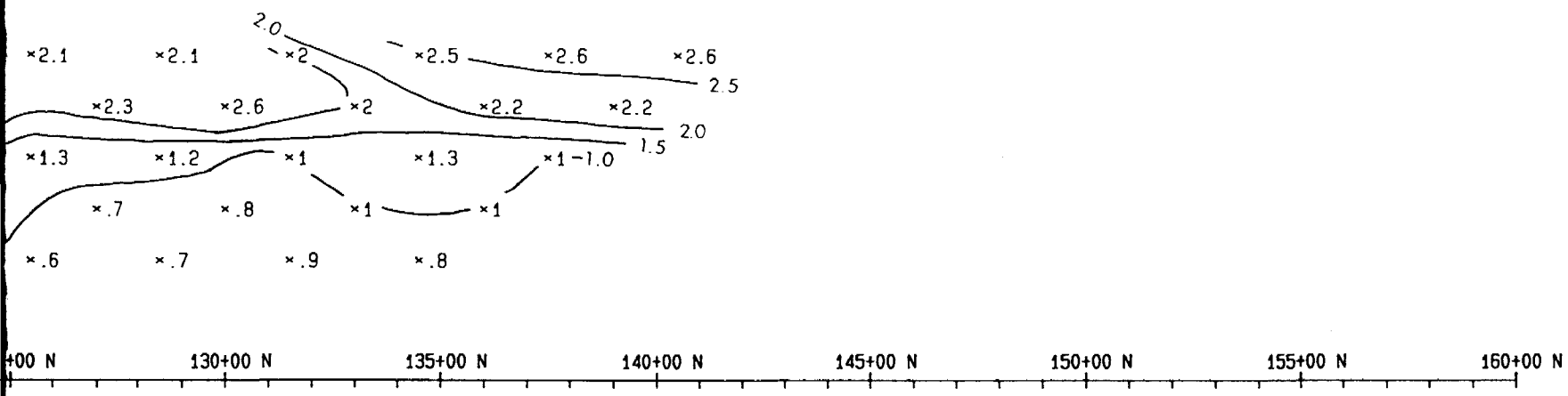
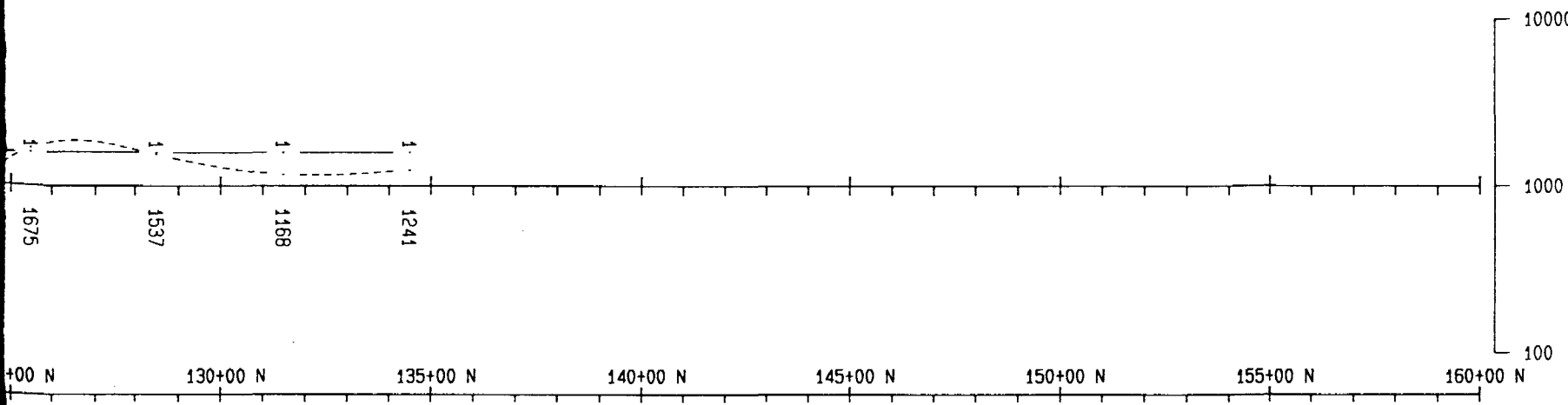
100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+00 N



100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+00 N



1 in. : 1 cycle



FALCONBRIDGE LIMITED

MICHAUD TOWNSHIP

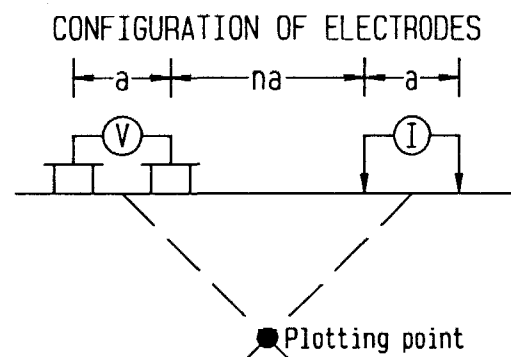
INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : = 300 feet
Separation between dipole : n = 1, 2, 3, 4, 5



Operators: G. Beier

63.4487

L-362+00 E

BY : GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

INTERPRETED BY :

DRAWN BY : J. Proulx, Tech. July 1984

N.T.S.: 42A/B PLAN NO : 84-975-21

GARRISON CREEK
Michaud twp., Ontario

Scale : 1" = 400'

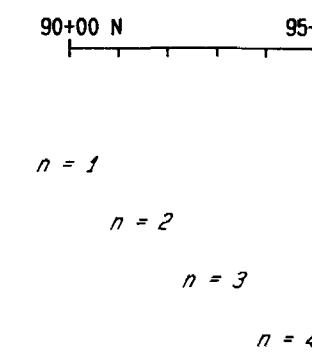
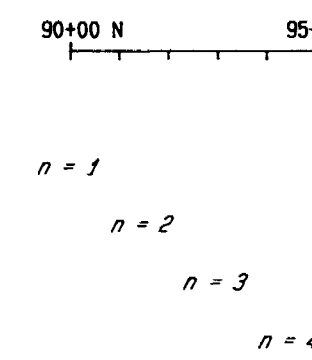
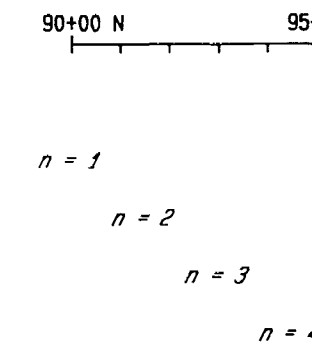
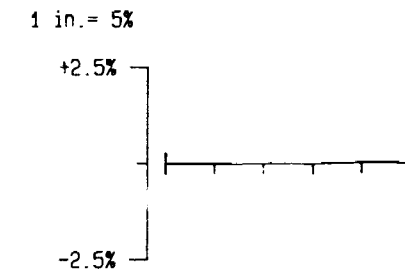
0 200 400 600 800'

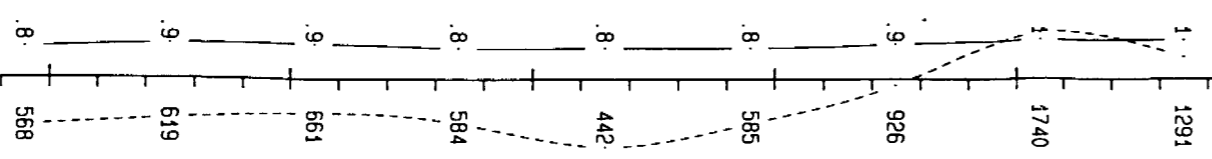
L-362+00 E
5th SEP.

L-362+00 E
METAL FACTOR
(E_f/Res. * 1000%)

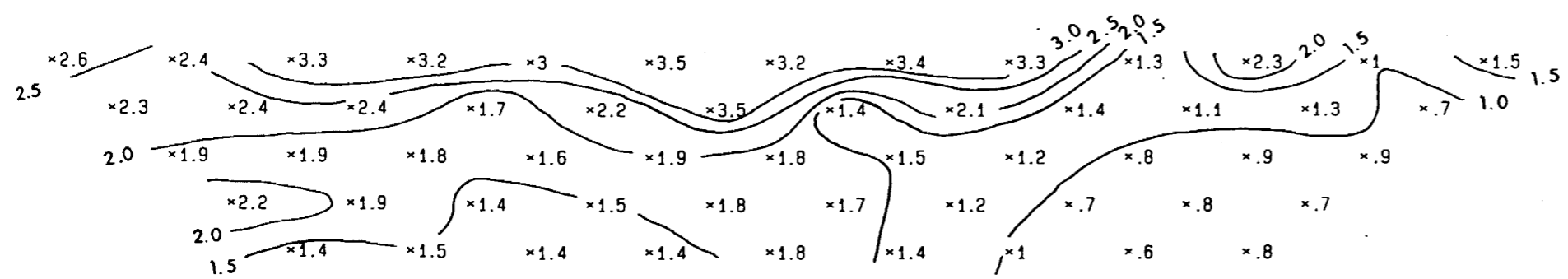
L-362+00 E
FREQUENCY EFFECT

L-362+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)



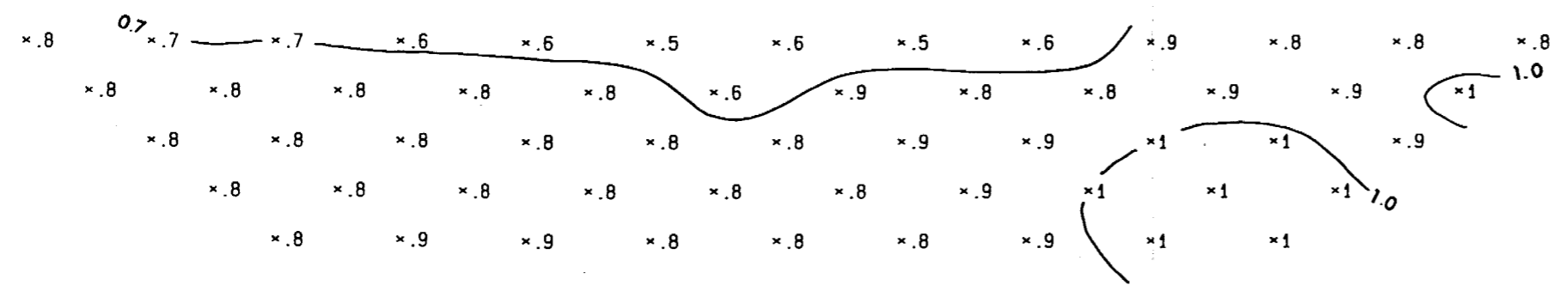


00 N 100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+00 N



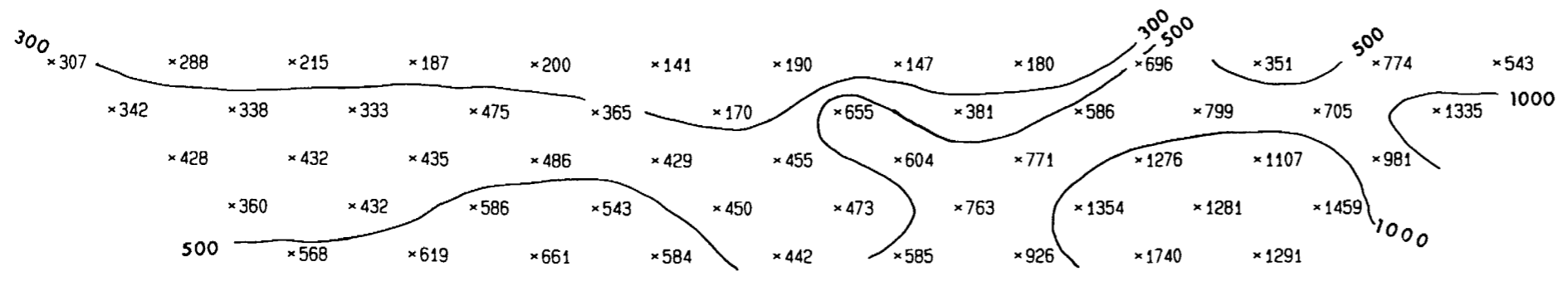
n = 5

00 N 100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+00 N



n = 5

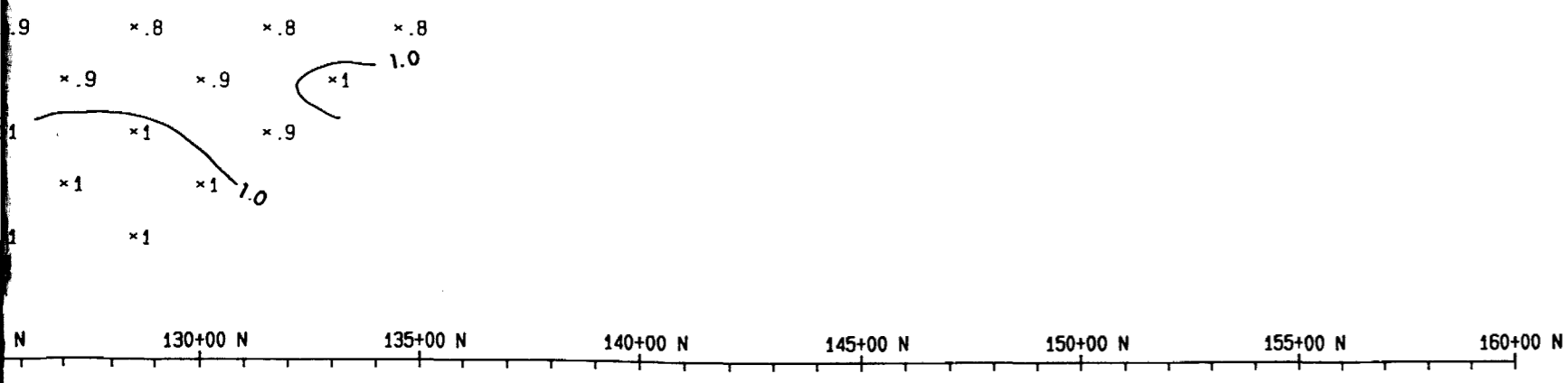
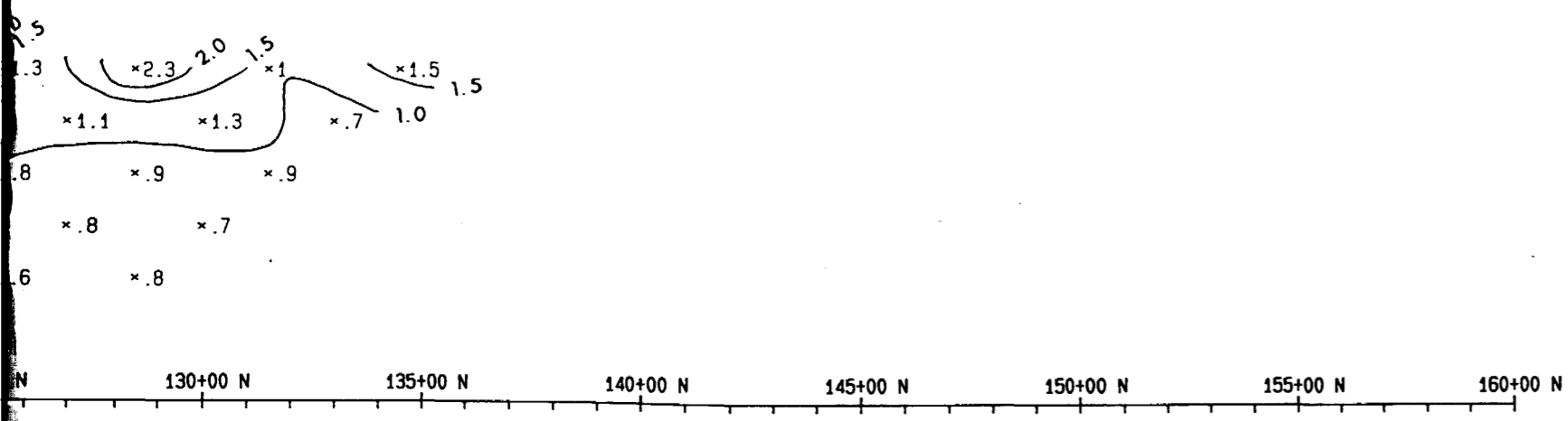
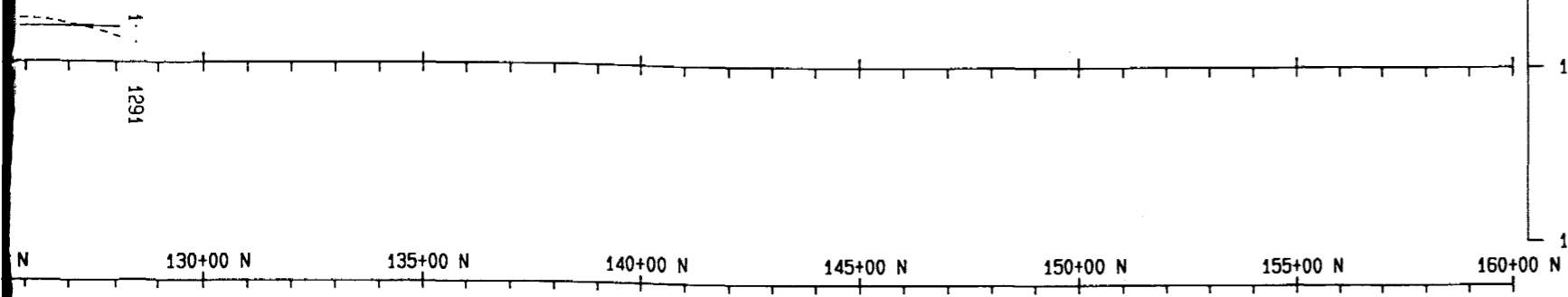
00 N 100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N 140+00 N 145+00 N 150+00 N 155+00 N



n = 5

1 in. : 1 cycle

10000
1000
100



FALCONBRIDGE LIMITED

MICHAUD TOWNSHIP

INDUCED POLARIZATION SURVEY

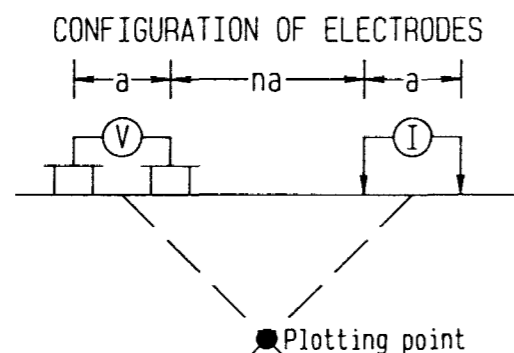
Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet

Separation between dipole : n = 1, 2, 3, 4, 5



Operators: G. Beier

63,4487

L-370+00 E

BY : GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

INTERPRETED BY :

DRAWN BY : J. Proulx, Tech. July 1984

N.T.S.: 42A/B PLAN NO : 84-975-22

GARRISON CREEK
Michaud twp., Ontario
Scale : 1" = 400'
0 200 400 600 800

-370+00 E
5th SEP.

-370+00 E
METAL FACTOR
(Ef/Res. * 1000%)

L-370+00 E
FREQUENCY EFFECT

L-370+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)

1 in. = 5%



90+00 N 95+00 N

n = 1

n = 2

n = 3

n = 4

n = 5

90+00 N 95+00 N

n = 1

n = 2

n = 3

n = 4

n = 5

90+00 N 95+00 N

n = 1

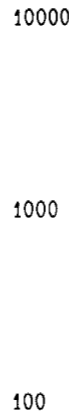
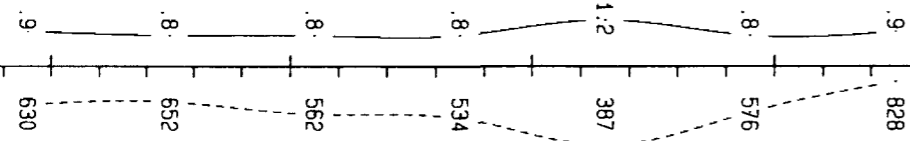
n = 2

n = 3

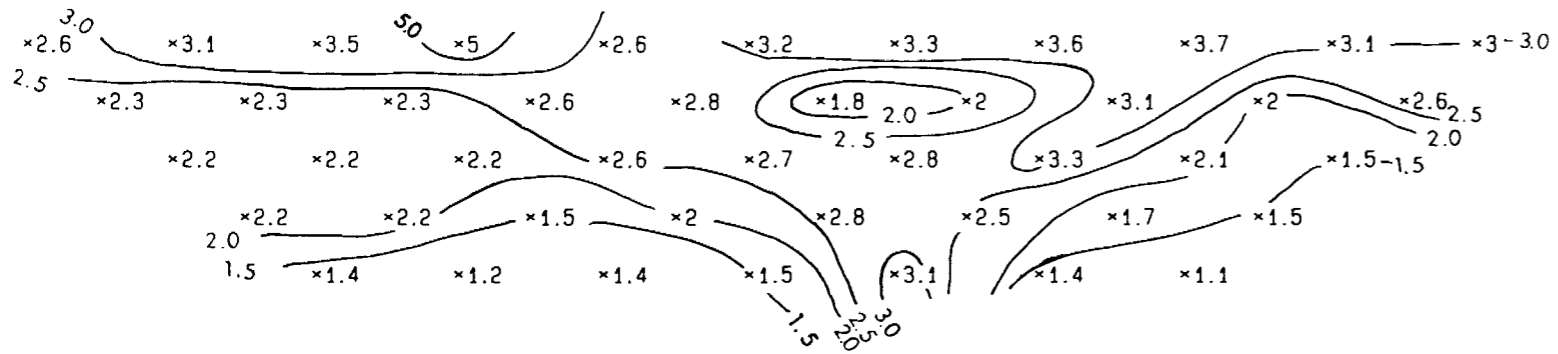
n = 4

n = 5

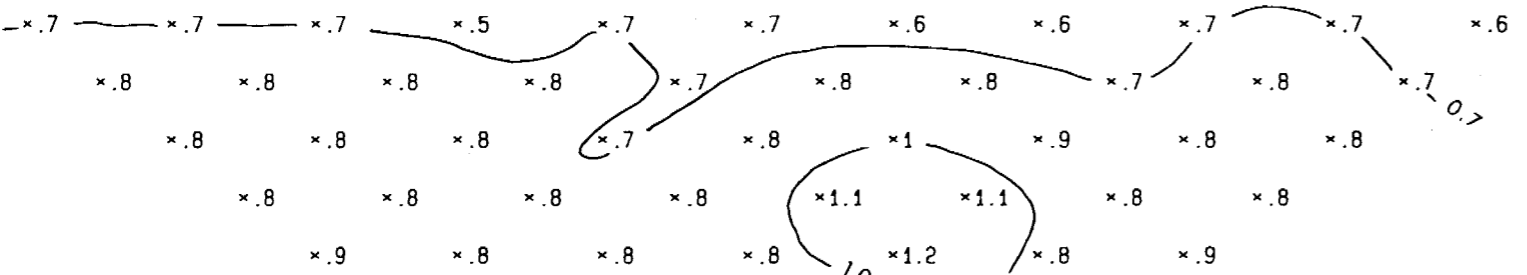
1 in. : 1 cycle



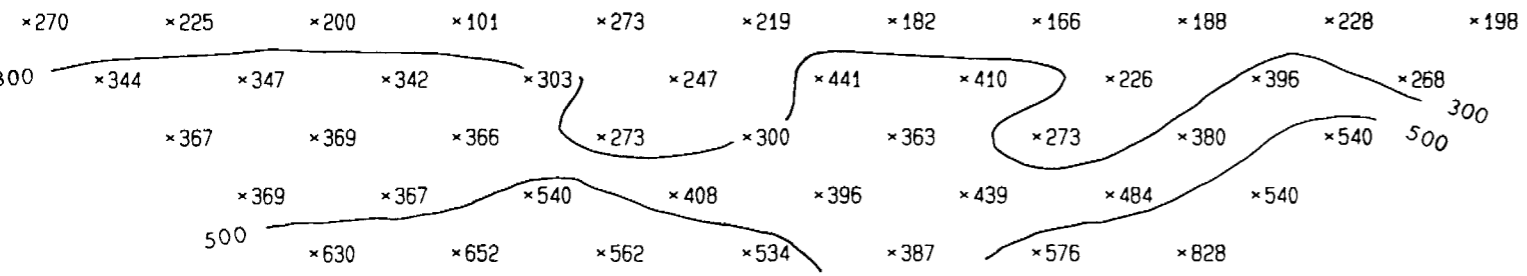
100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N



100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N



100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N



FALCONBRIDGE LIMITED

MICHAUD TOWNSHIP

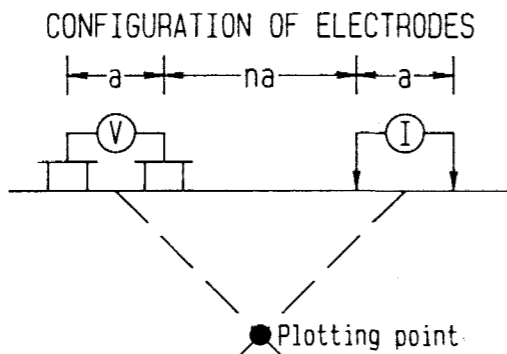
INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & 30 Hz.

Separation of electrodes : a = 300 feet
Separation between dipole : n = 1, 2, 3, 4, 5



Operators: G. Beier

63,4487

L-376+00 E

BY : GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

INTERPRETED BY :

DRAWN BY : J. Proulx, Tech. July 1984

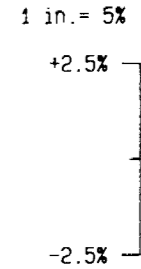
N.T.S.: 42A/B PLAN NO : 84-975-23

GARRISON CREEK
Michaud twp., Ontario

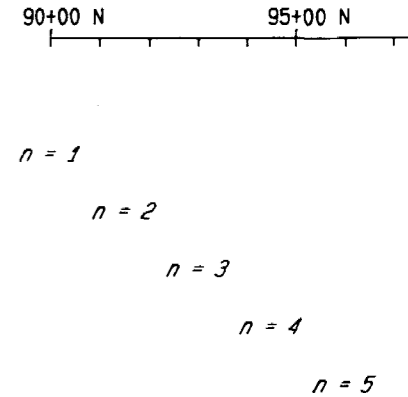
Scale : 1" = 400'

0 200 400 600 800

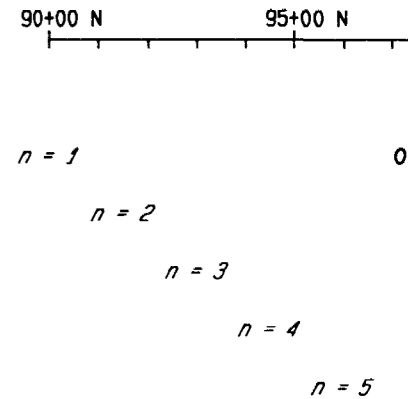
L-376+00 E
5th SEP.



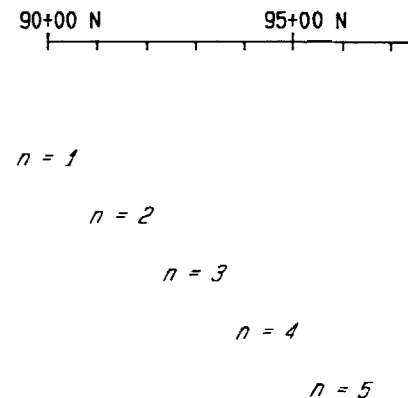
L-376+00 E
METAL FACTOR
(E_f/Res. * 1000%)



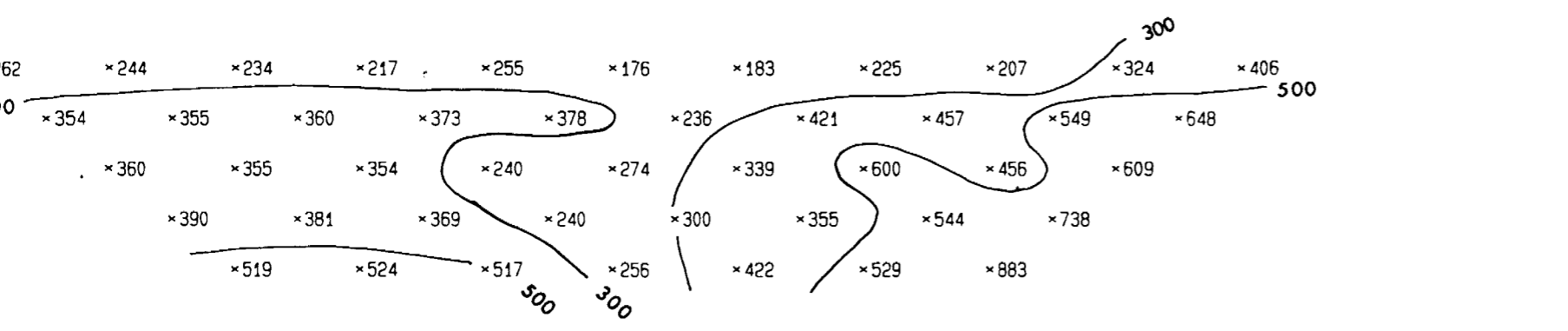
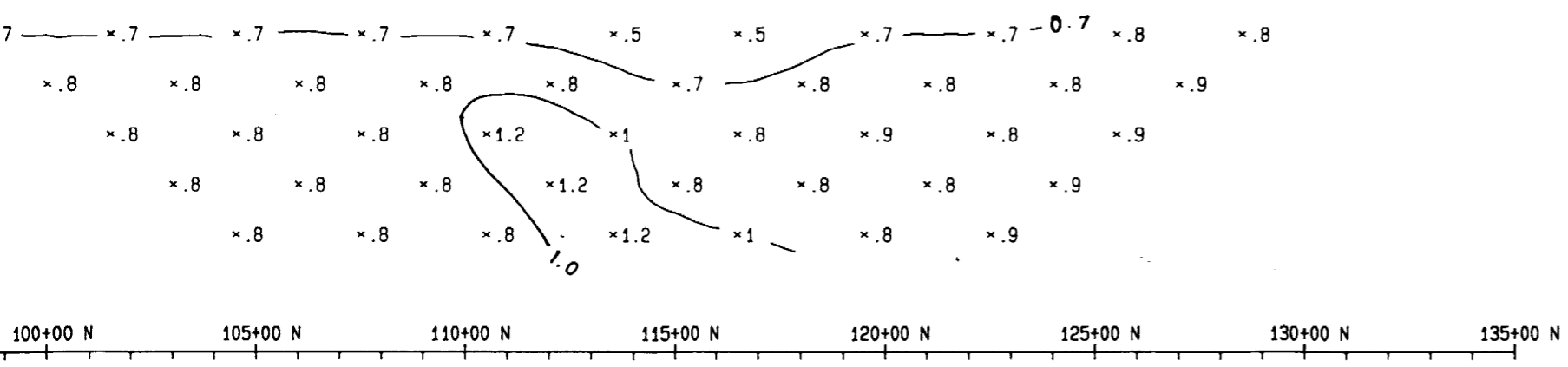
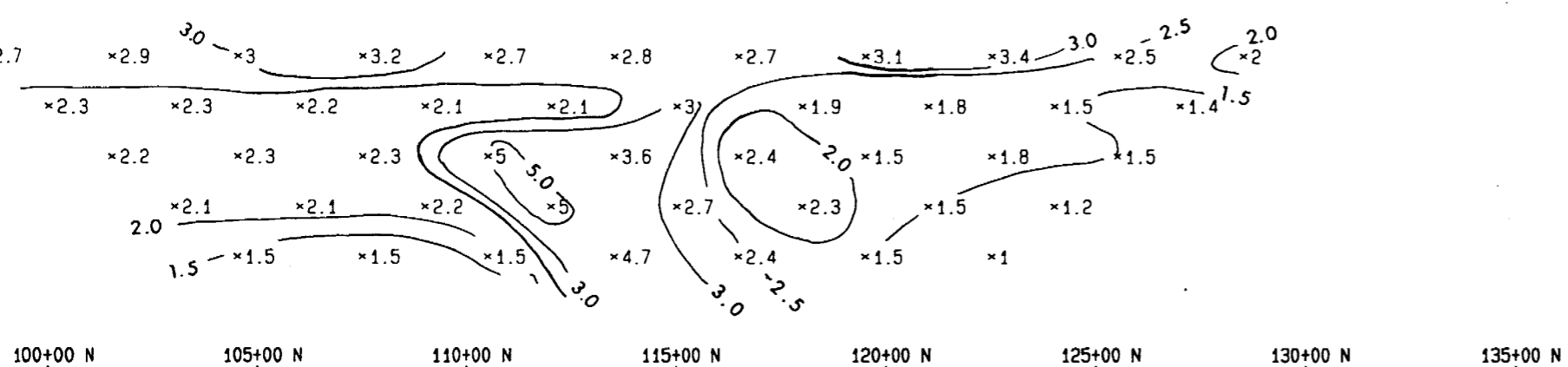
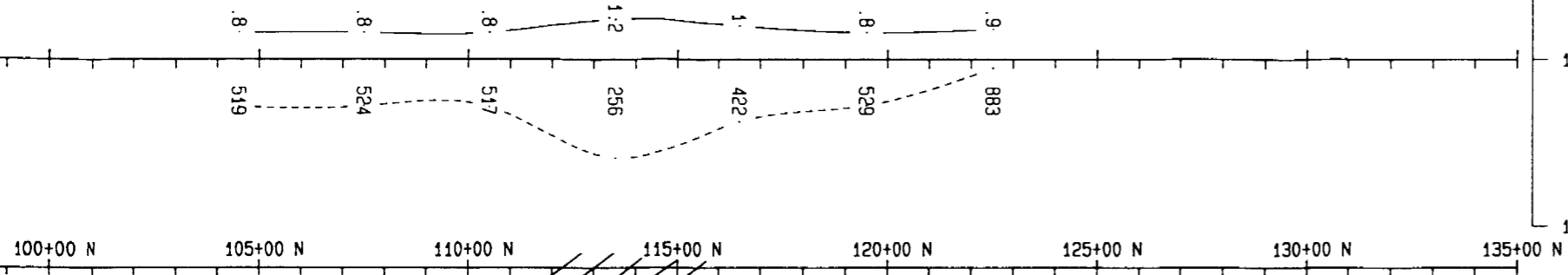
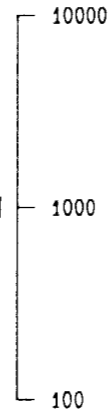
L-376+00 E
FREQUENCY EFFECT



L-376+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)



1 in. : 1 cycle



FALCONBRIDGE LIMITED

MICHAUD TOWNSHIP

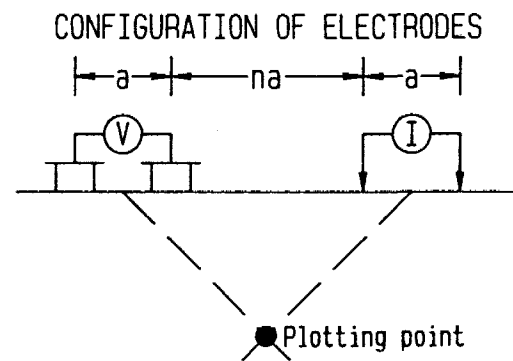
INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet
Separation between dipole : n = 1, 2, 3, 4, 5



Operators: G. Beier

63.4487

L-382+00 E

BY : GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

INTERPRETED BY :

DRAWN BY : J. Proulx, Tech. July 1984

N.T.S.: 42A/B PLAN NO : 84-975-24

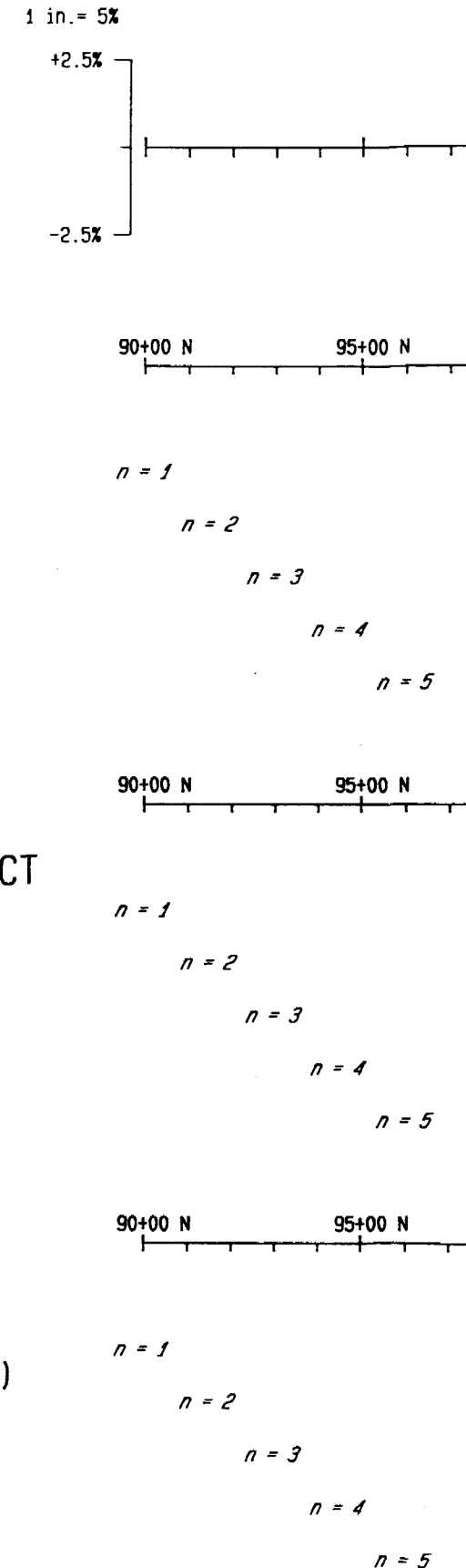
GARRISON CREEK
Michaud twp., Ontario
Scale : 1" = 400'
0 200 400 600 800

L-382+00 E
5th SEP.

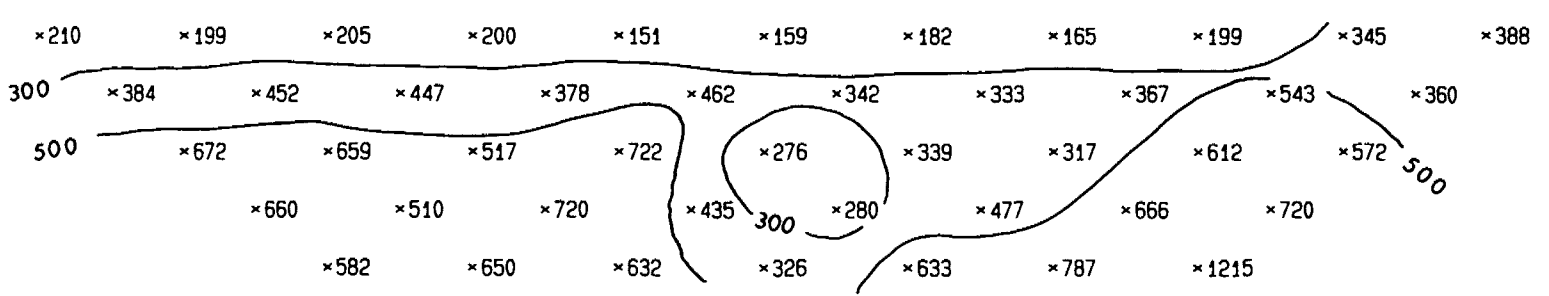
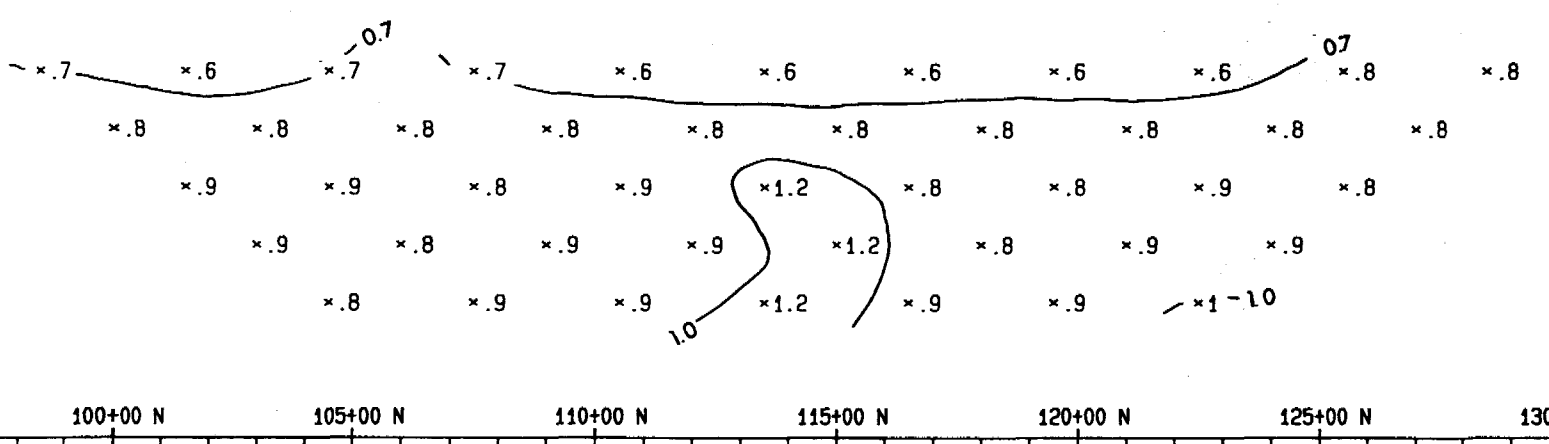
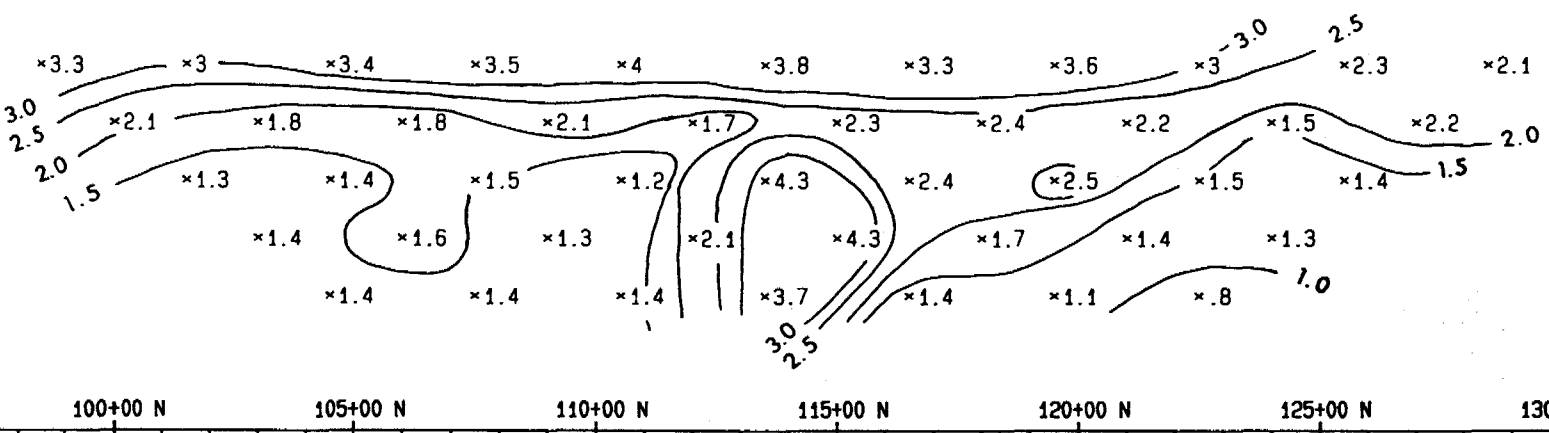
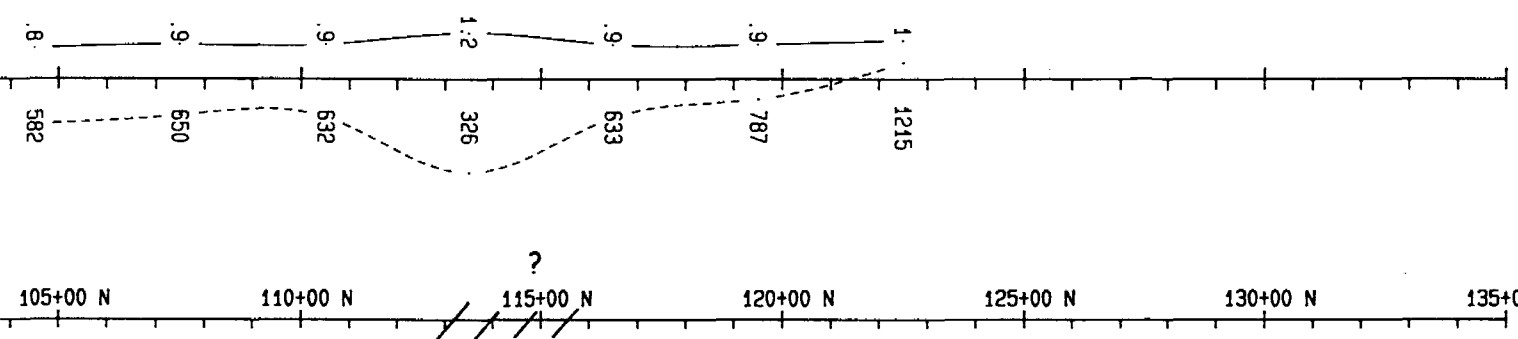
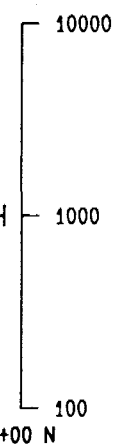
L-382+00 E
METAL FACTOR
(E_f/Res. * 1000%)

L-382+00 E
FREQUENCY EFFECT

L-382+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)



1 in. : 1 cycle



FALCONBRIDGE LIMITED

MICHAUD TOWNSHIP

INDUCED POLARIZATION SURVEY

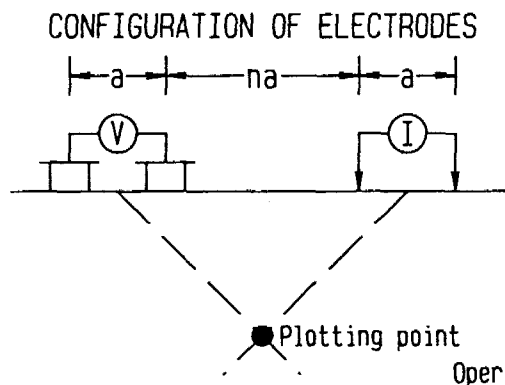
Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet

Separation between dipole : n = 1, 2, 3, 4, 5



63,4487

L-388+00 E

BY : GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

INTERPRETED BY :

DRAWN BY : J. Proulx, Tech. July 1984

N.T.S.: 42A/B PLAN NO : 84-975-25

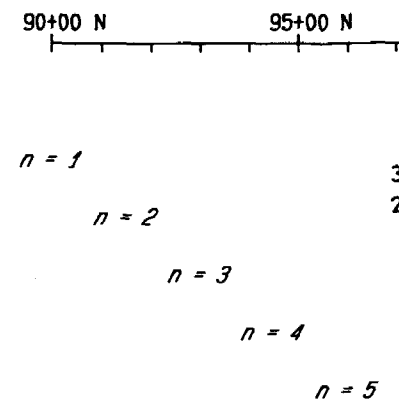
GARRISON CREEK
Michaud twp., Ontario
Scale : 1" = 400'
0 200 400 600 800

L-388+00 E
5th SEP.

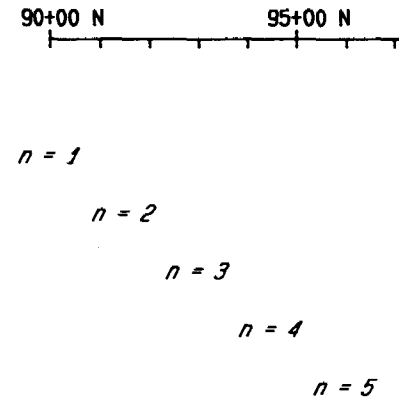
1 in. = 5%



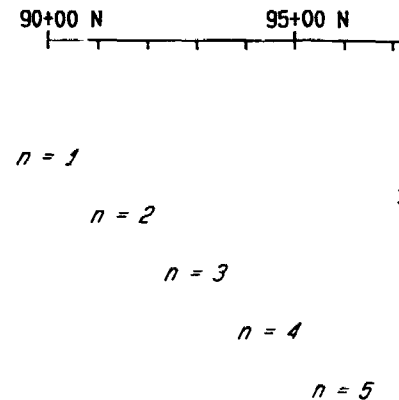
L-388+00 E
METAL FACTOR
(Ef/Res. * 1000%)



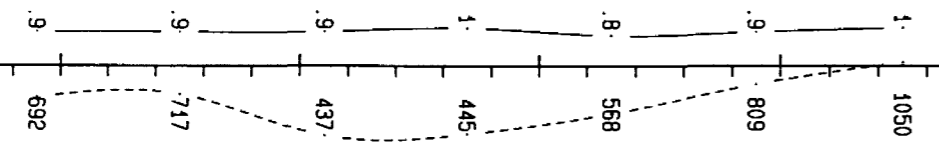
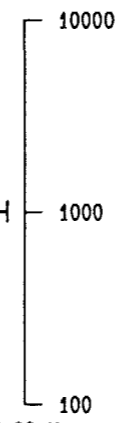
L-388+00 E
FREQUENCY EFFECT



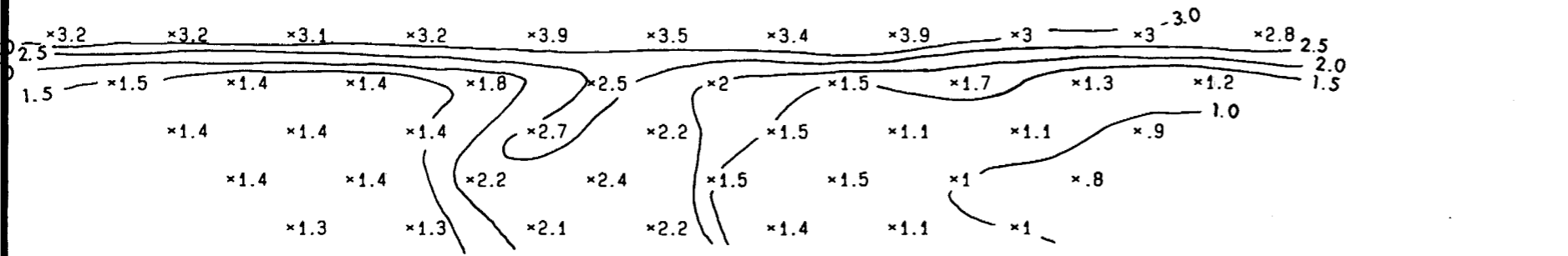
L-388+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)



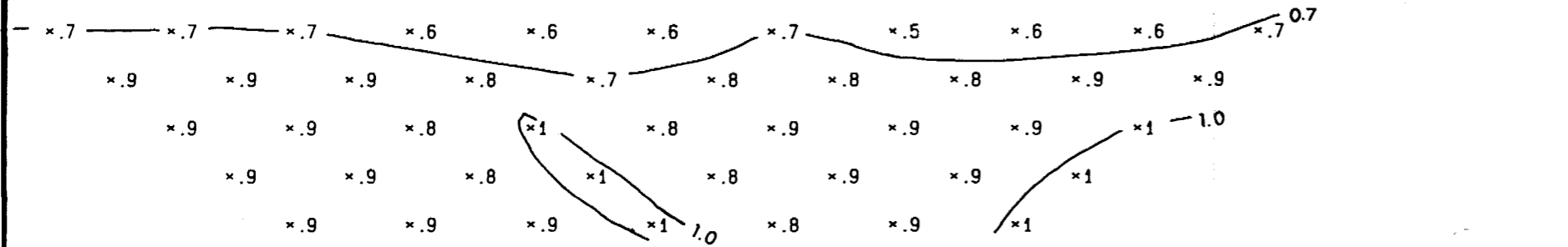
1 in. : 1 cycle



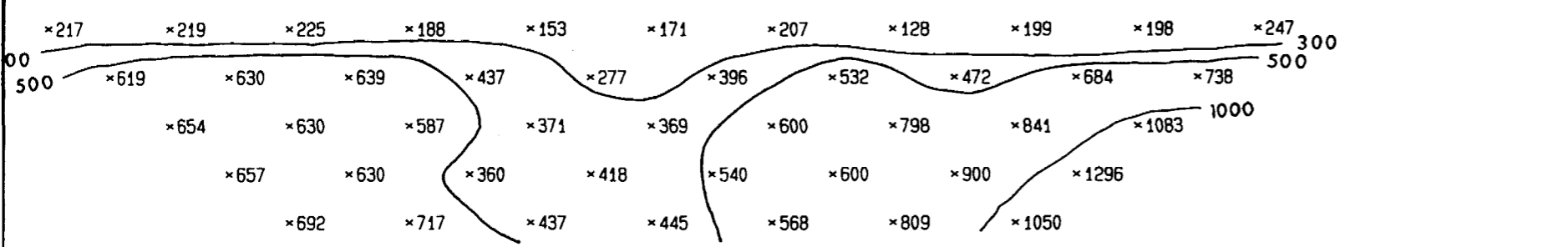
100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N



100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N



100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N



100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N

FALCONBRIDGE LIMITED

MICHAUD TOWNSHIP

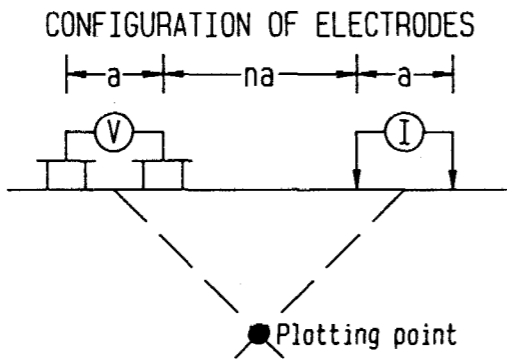
INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet
Separation between dipole : n = 1, 2, 3, 4, 5



Operators: G. Beier

63,4487

L-394+00 E

BY : GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

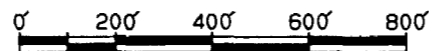
INTERPRETED BY :

DRAWN BY : J. Proulx, Tech. July 1984

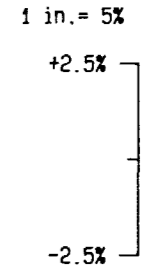
N.T.S.: 42A/B PLAN NO : 84-975-26

GARRISON CREEK
Michaud tmp., Ontario

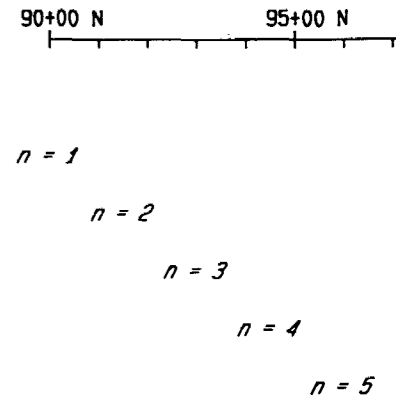
Scale : 1" = 400'



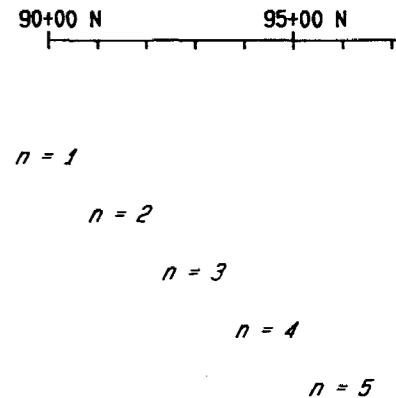
L-394+00 E
5th SEP.



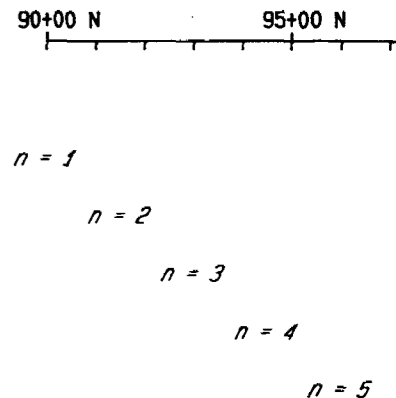
L-394+00 E
METAL FACTOR
(Ef/Res. * 1000%)



L-394+00 E
FREQUENCY EFFECT

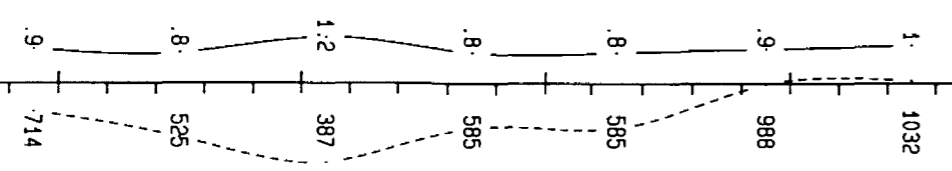


L-394+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)

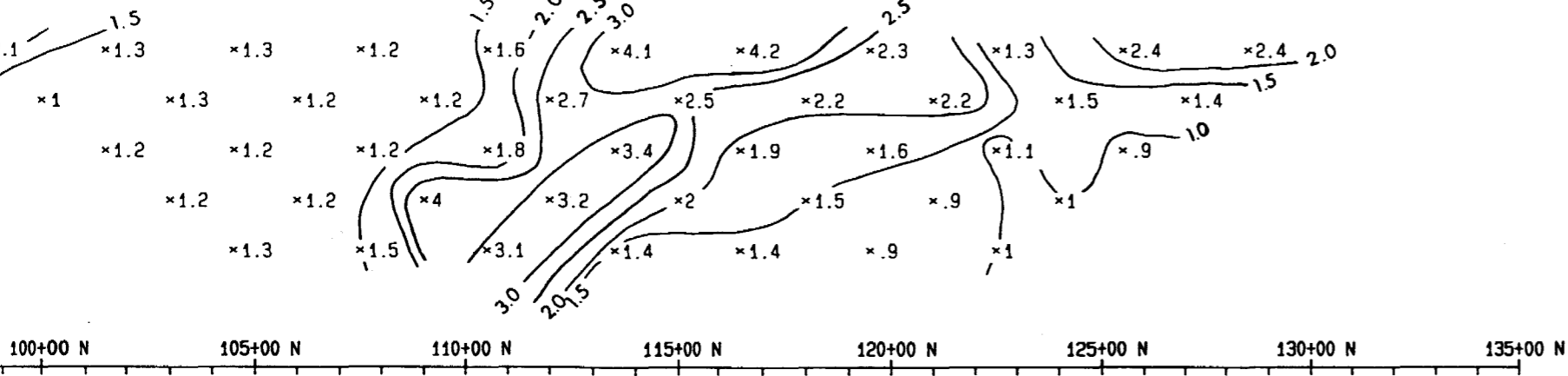


1 in. : 1 cycle

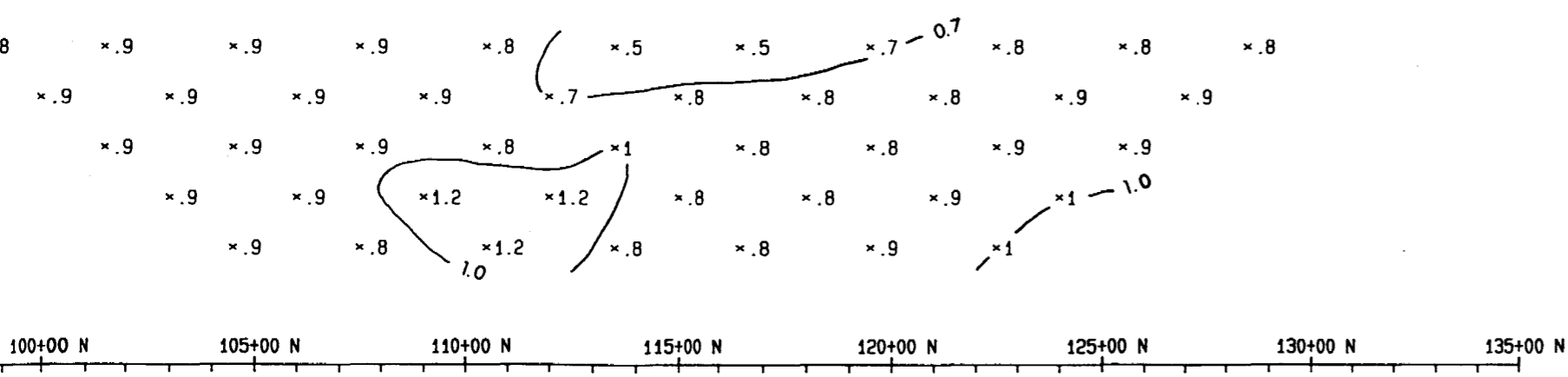
10000
1000
100



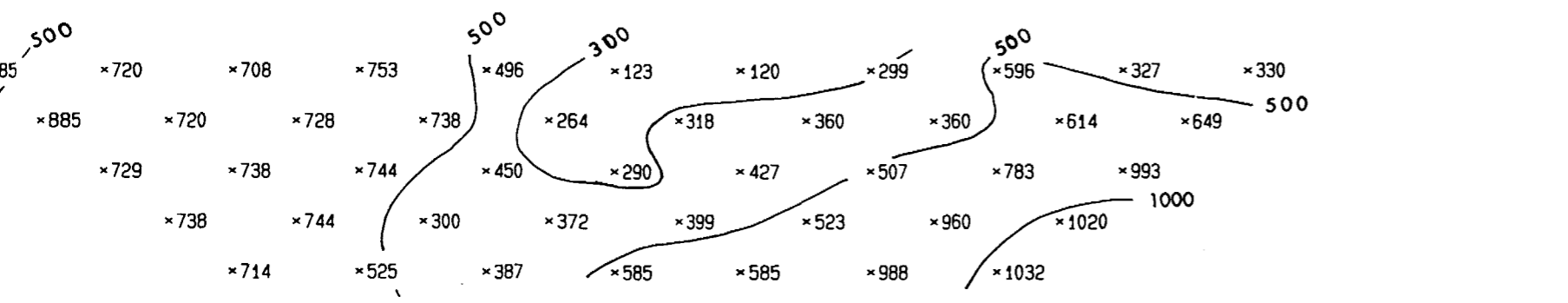
100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N



100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N



100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N



100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N

FALCONBRIDGE LIMITED

MICHAUD TOWNSHIP

INDUCED POLARIZATION SURVEY

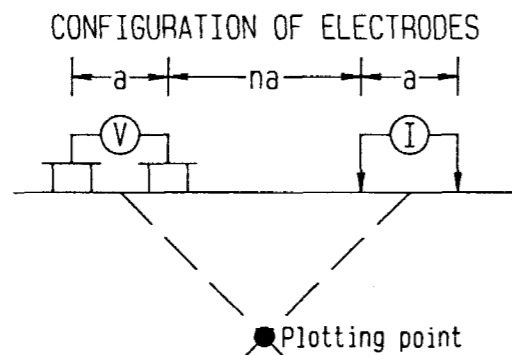
Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet

Separation between dipole : n = 1, 2, 3, 4, 5



Operators: G. Beier

63.4487

L-402+00 E

BY : GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

INTERPRETED BY :

DRAWN BY : J. Proulx, Tech. July 1984

N.T.S.: 42A/B PLAN NO : 84-975-27

GARRISON CREEK
Michaud twp., Ontario

Scale : 1" = 400'

0 200 400 600 800

L-402+00 E

5th SEP.

1 in. = 5%

+2.5%

-2.5%

L-402+00 E

METAL FACTOR

(E_f/Res. * 1000%)

90+00 N 95+00 N

n = 1

n = 2

n = 3

n = 4

n = 5

L-402+00 E

FREQUENCY EFFECT

90+00 N 95+00 N

n = 1

n = 2

n = 3

n = 4

n = 5

L-402+00 E

RESISTIVITY

(Pa/2π, Ohm-metres)

90+00 N 95+00 N

n = 1

n = 2

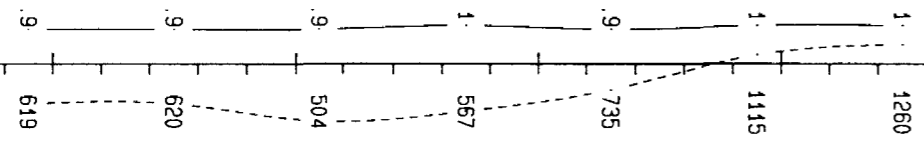
n = 3

n = 4

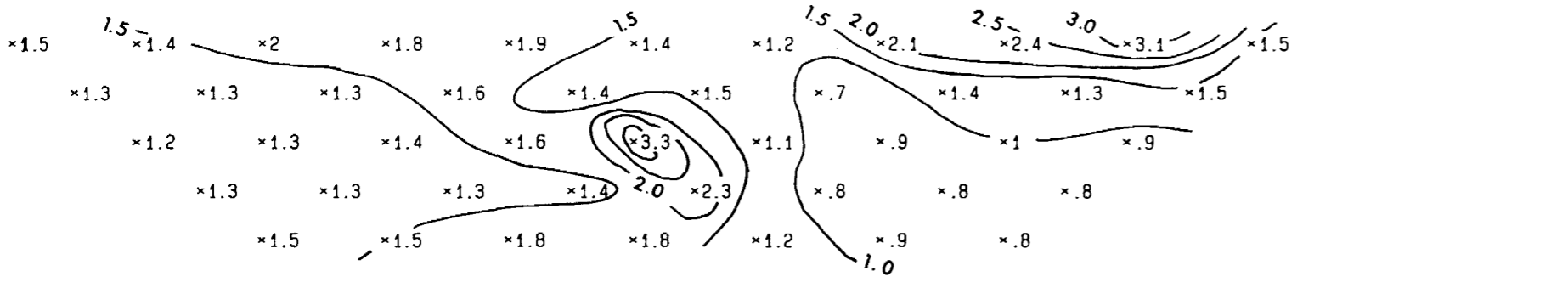
n = 5

1 in. : 1 cycle

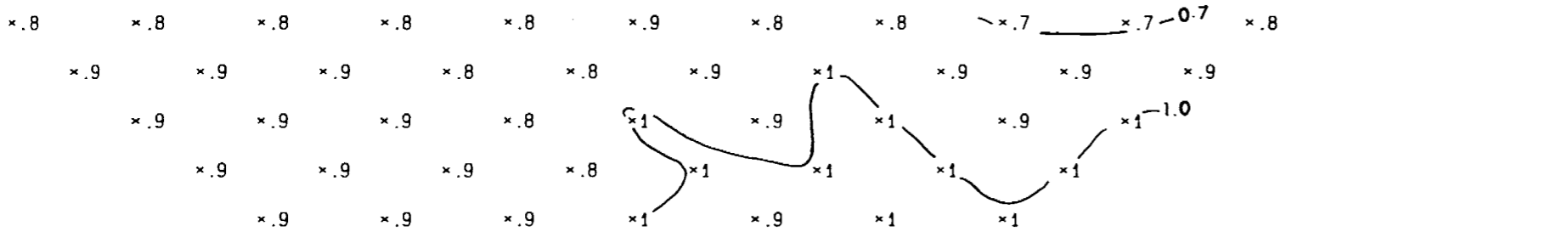
10000
1000
100



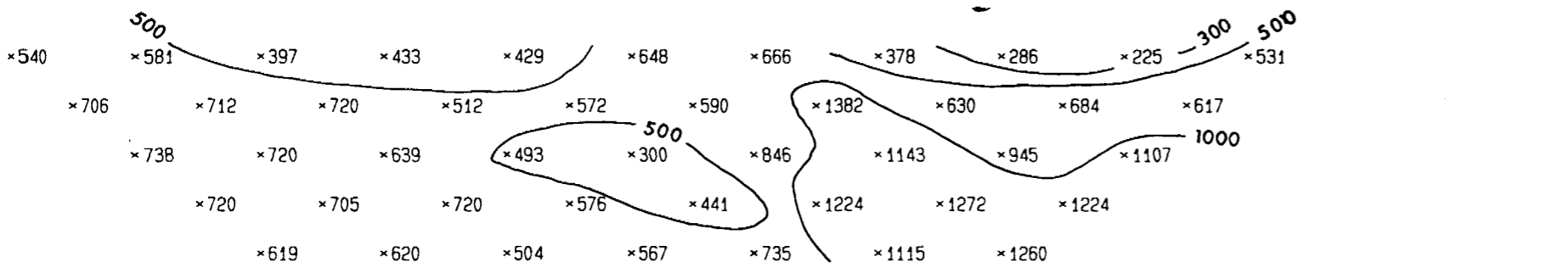
100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N



100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N



100+00 N 105+00 N 110+00 N 115+00 N 120+00 N 125+00 N 130+00 N 135+00 N



FALCONBRIDGE LIMITED

GARRISON TOWNSHIP

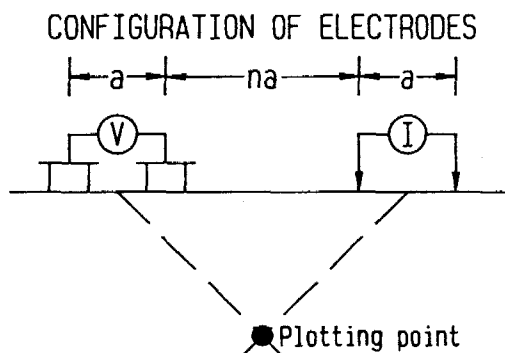
INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet
Separation between dipole : n = 1, 2, 3, 4, 5



Operators: G. Beier

63.4487

L-20+00 E

BY : GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

INTERPRETED BY :

DRAWN BY : J. Proulx Tech. July 1984

N.T.S.: 320/12 PLAN NO : 84-974-01

GARRISON CREEK
Garrison twp., Ontario.
Scale : 1" = 400'
0 200 400 600 800

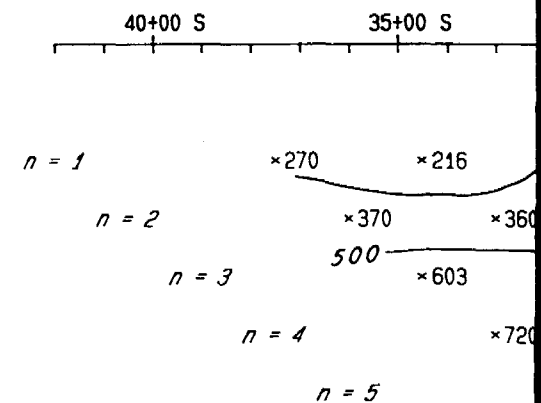
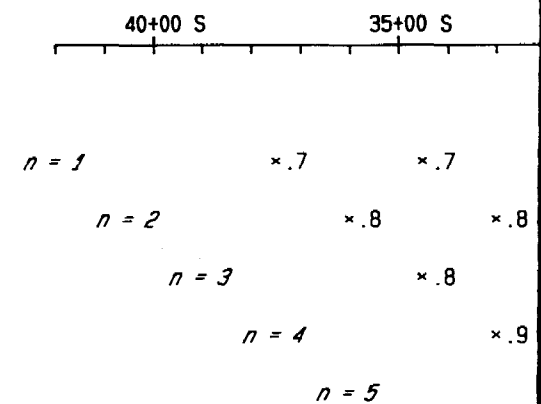
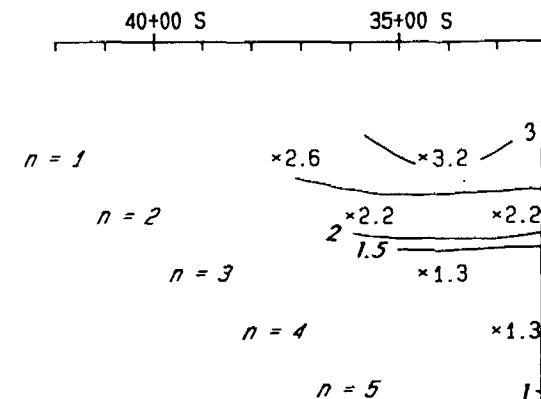
L-20+00 E
5th SEP.

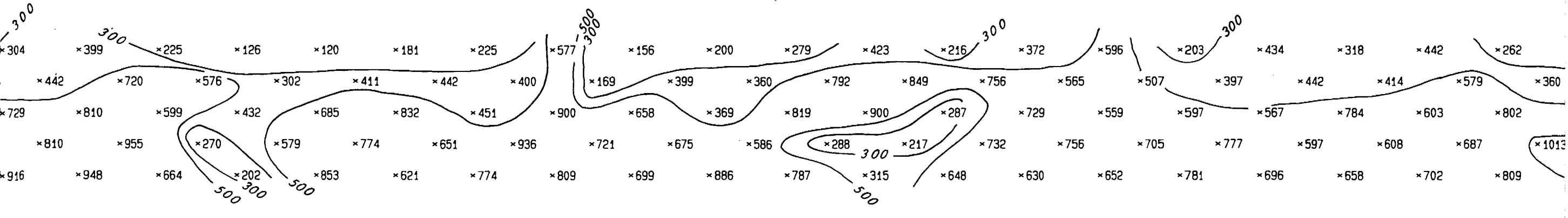
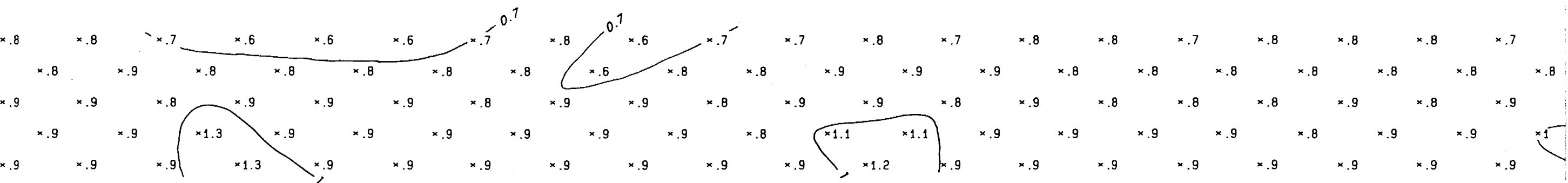
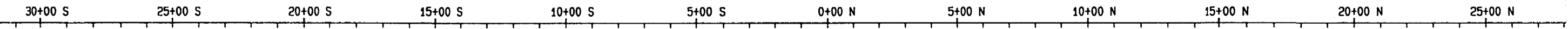
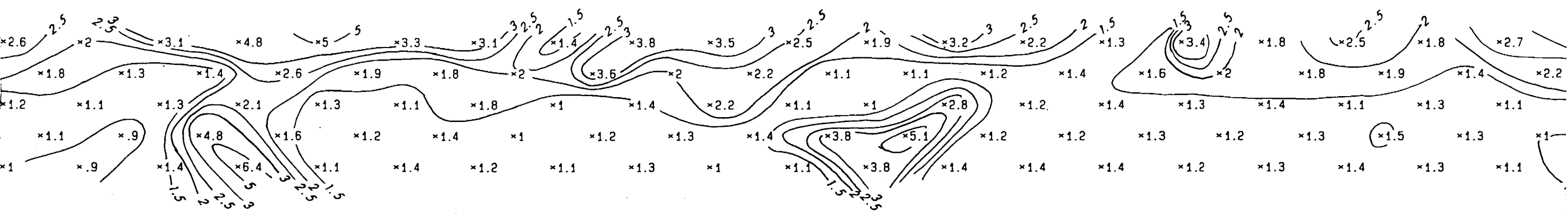
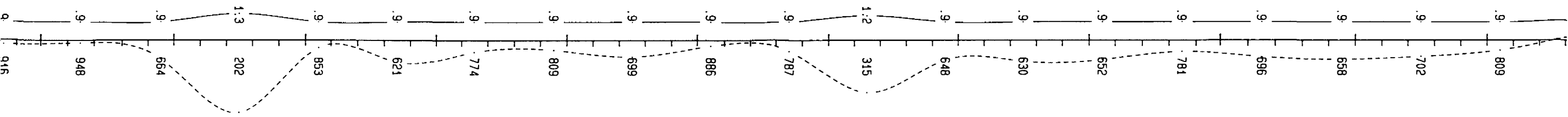
L-20+00 E
METAL FACTOR
(E_f/Res. * 1000%)

L-20+00 E
FREQUENCY EFFECT

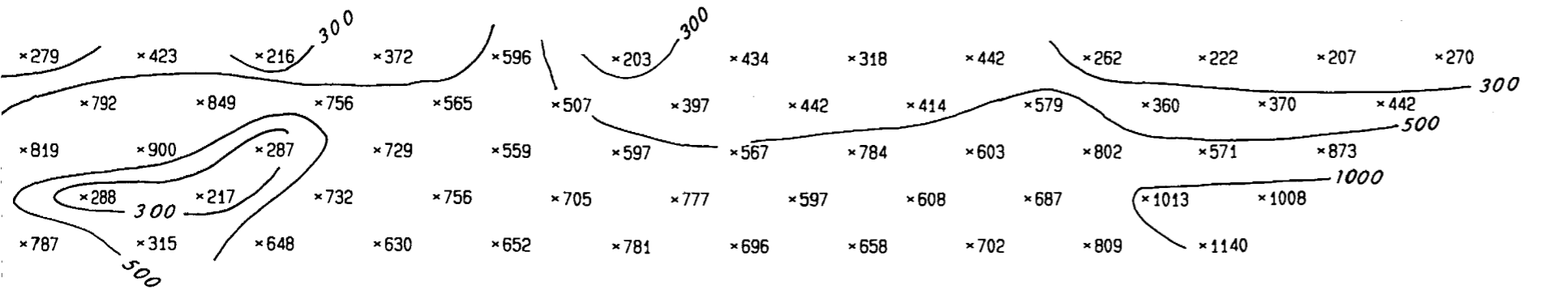
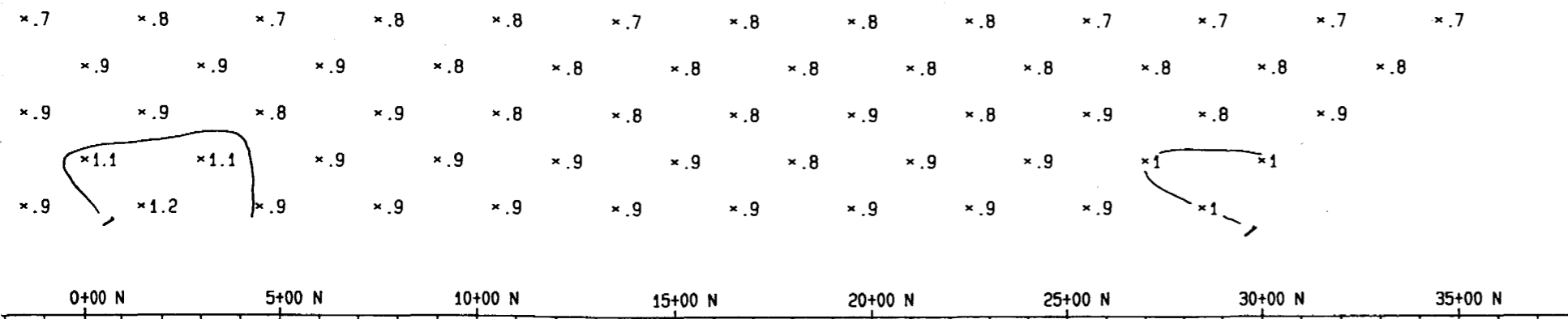
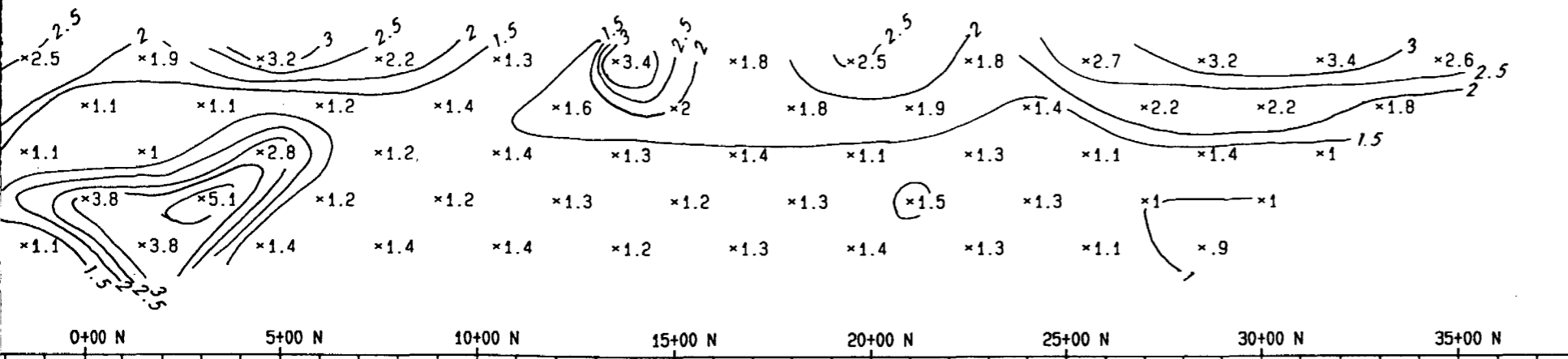
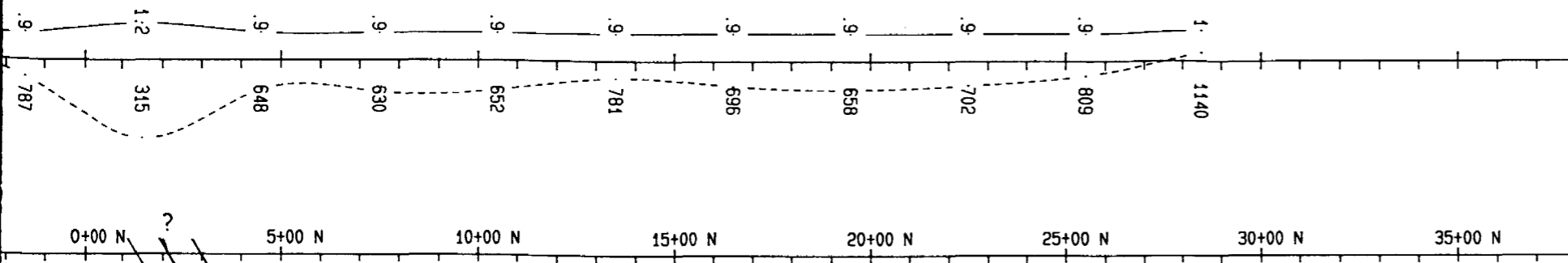
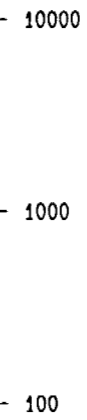
L-20+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)

1 in. = 5%
+2.5%
-2.5%





1 in. : 1 cycle



FALCONBRIDGE LIMITED

GARRISON TOWNSHIP

INDUCED POLARIZATION SURVEY

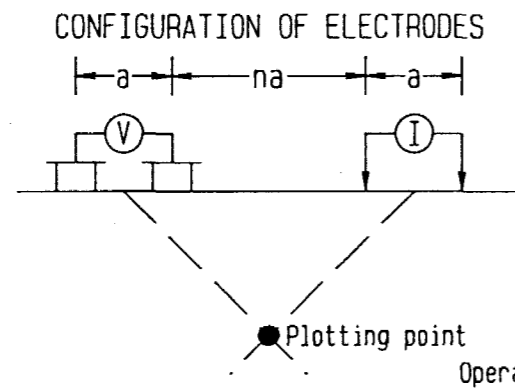
Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : $a = 300$ feet

Separation between dipole : $n = 1, 2, 3, 4, 5$



63.4487

L-26+00 E

BY :	GÉOLA LTÉE	
EXECUTED BY :	G. Beier	May 1984
INTERPRETED BY :		
DRAWN BY :	J. Proulx Tech.	July 1984
N.T.S.:	320/12	PLAN NO : 84-974-02

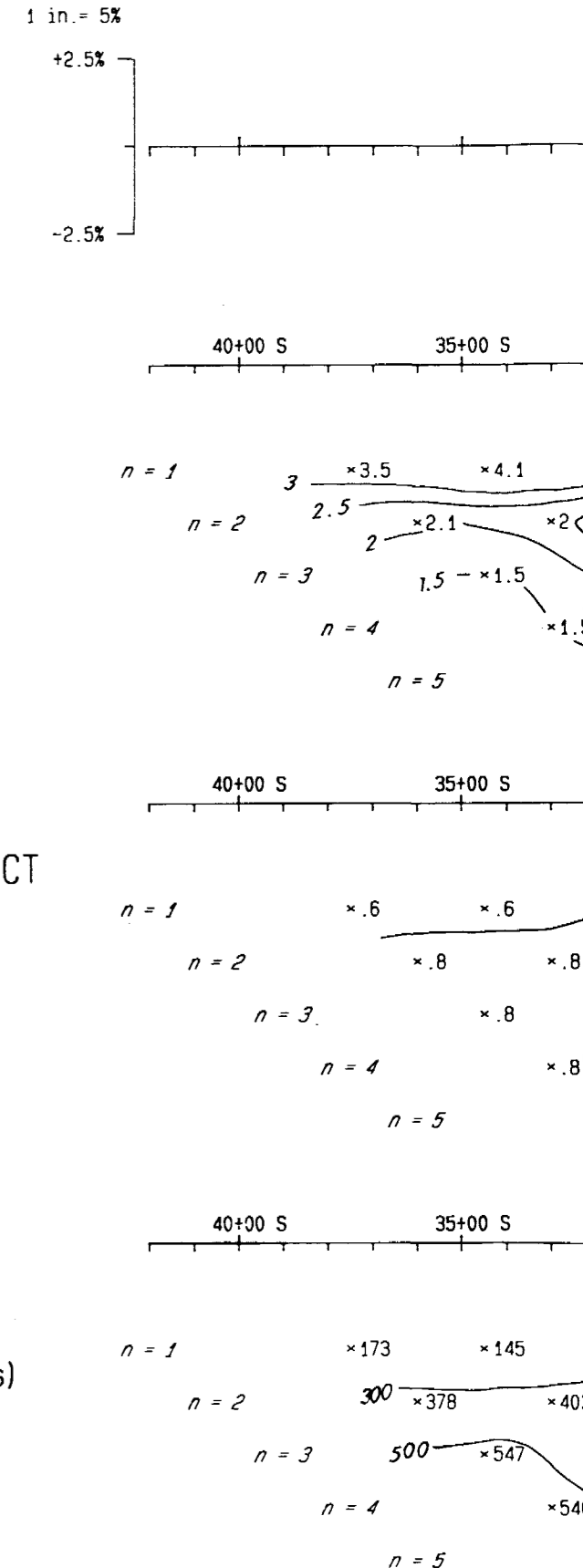
GARRISON CREEK
Garrison twp., Ontario.
Scale : 1" = 400'

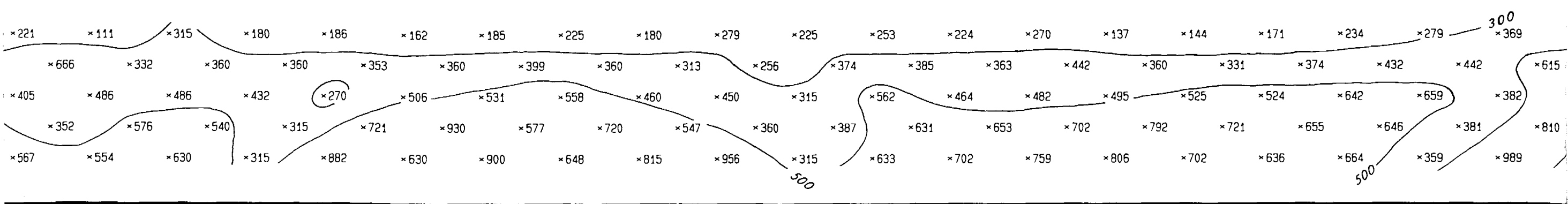
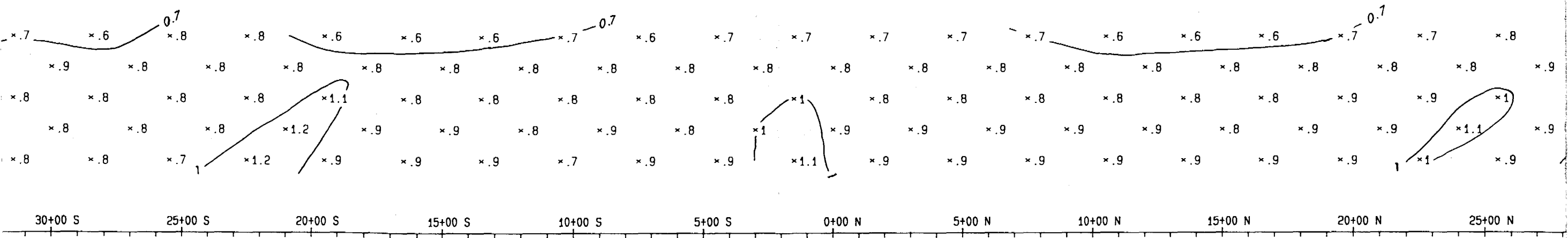
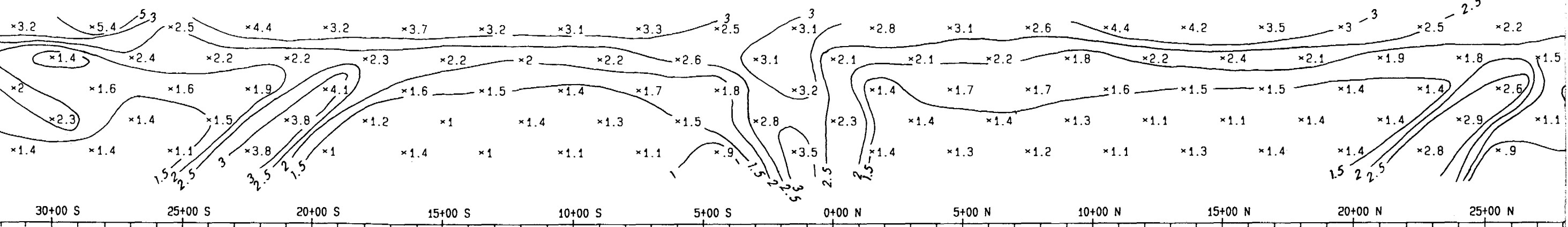
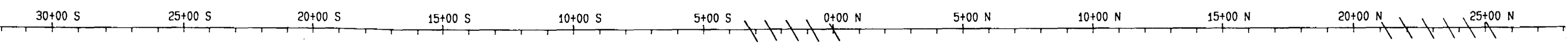
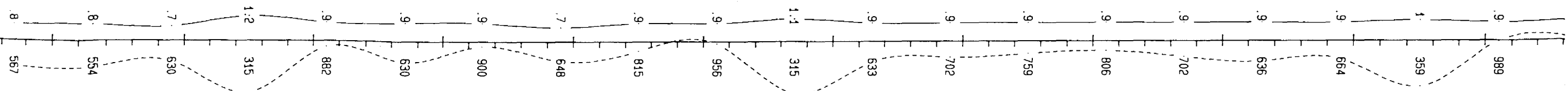
L-26+00 E
5th SEP.

L-26+00 E
METAL FACTOR
($E_f/Res. \times 1000\%$)

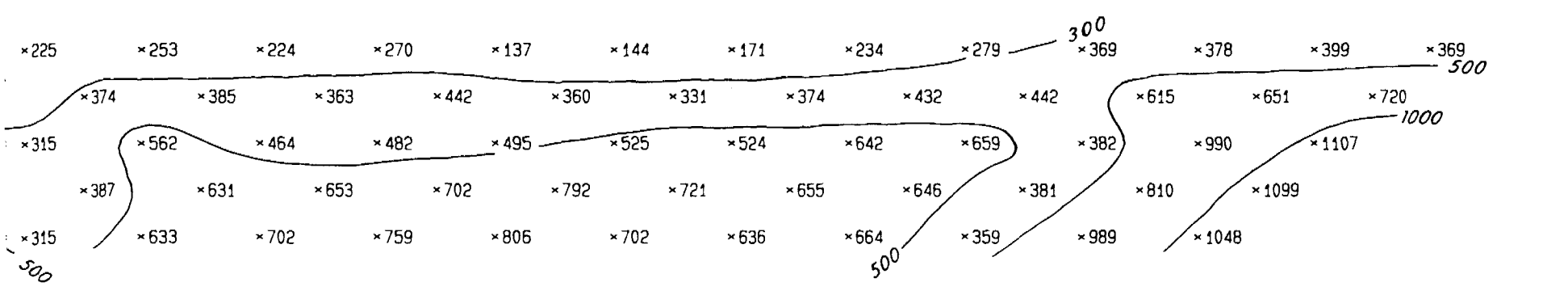
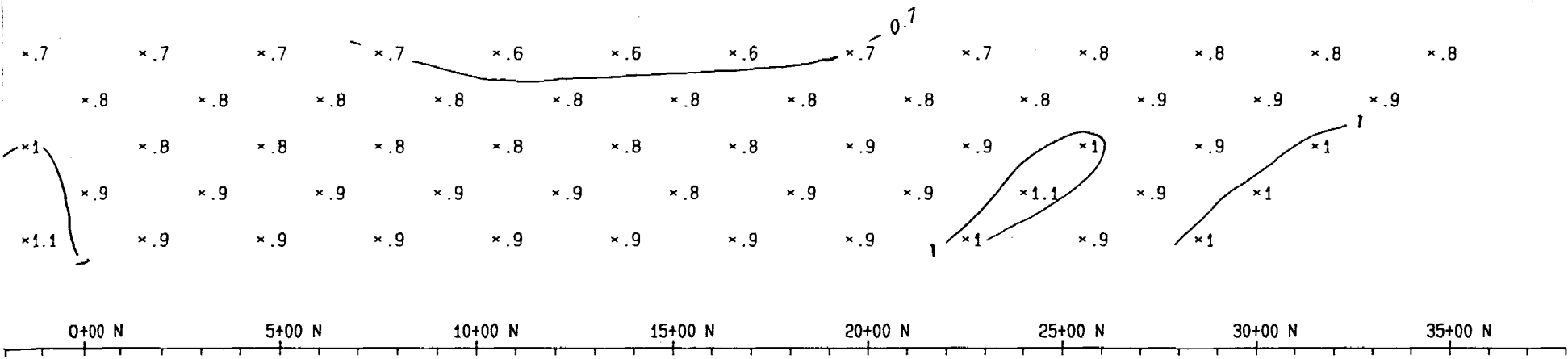
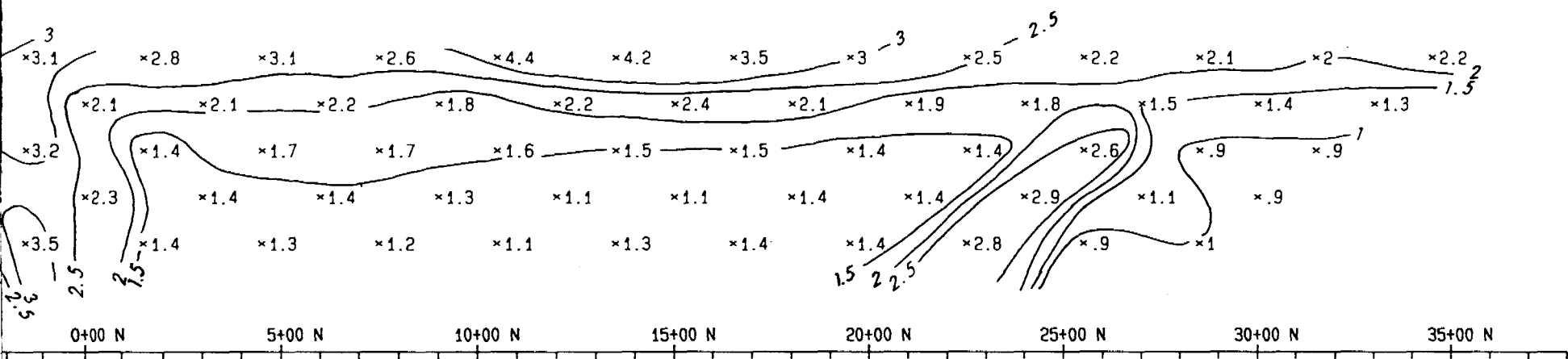
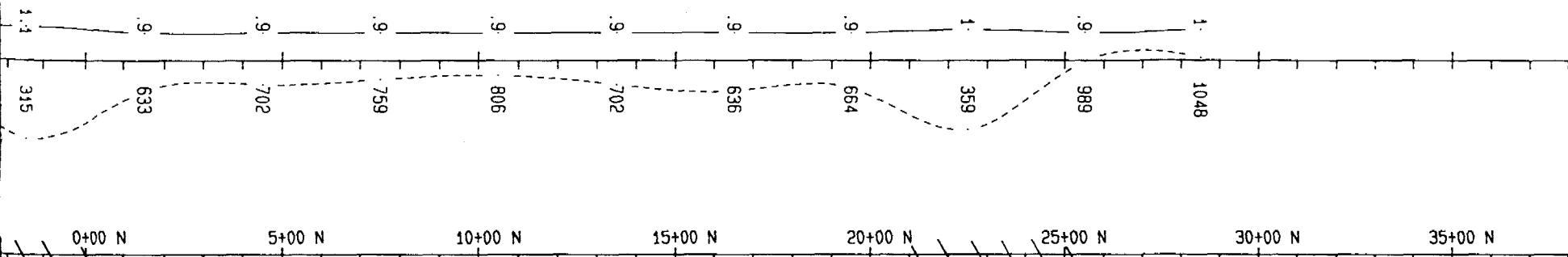
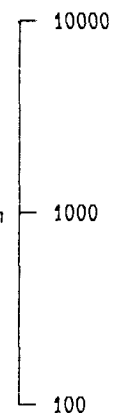
L-26+00 E
FREQUENCY EFFECT

L-26+00 E
RESISTIVITY
($\rho_a/2\pi$, Ohm-metres)





1 in. : 1 cycle



FALCONBRIDGE LIMITED

GARRISON TOWNSHIP

INDUCED POLARIZATION SURVEY

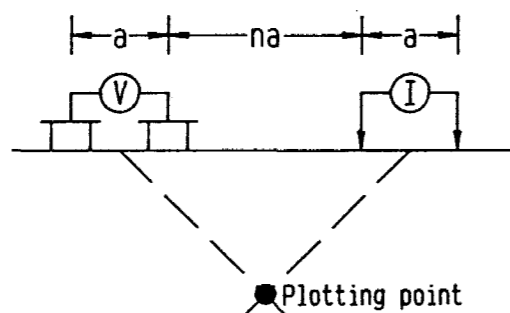
Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet
Separation between dipole : n = 1, 2, 3, 4, 5

CONFIGURATION OF ELECTRODES



Operators: G. Beier

63,4487

L-32+00 E

BY : GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

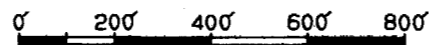
INTERPRETED BY :

DRAWN BY : J. Proulx Tech. July 1984

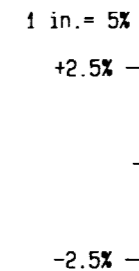
N.T.S.: 320/12 PLAN NO : 84-974-03

GARRISON CREEK
Garrison twp., Ontario.

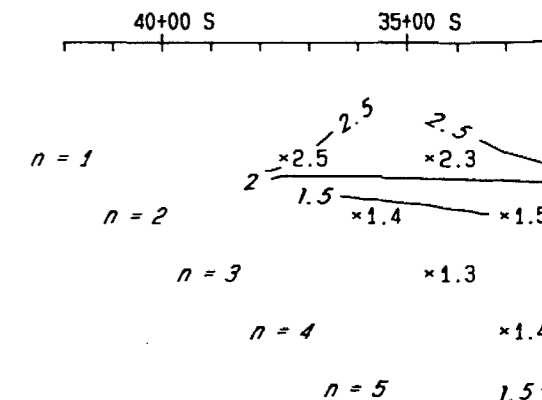
Scale : 1" = 400'



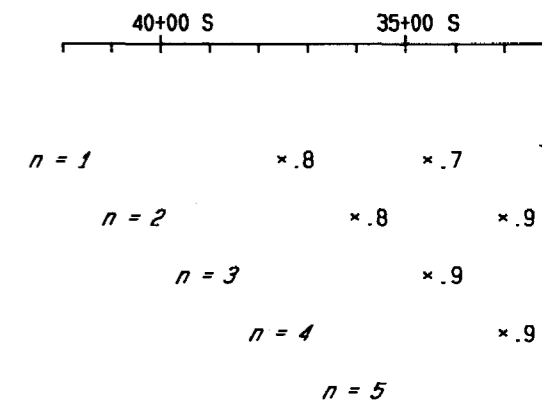
L-32+00 E
5th SEP.



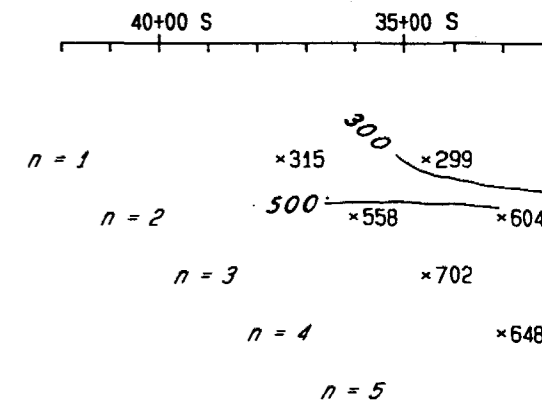
L-32+00 E
METAL FACTOR
(E_f/Res. * 1000%)



L-32+00 E
FREQUENCY EFFECT



L-32+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)

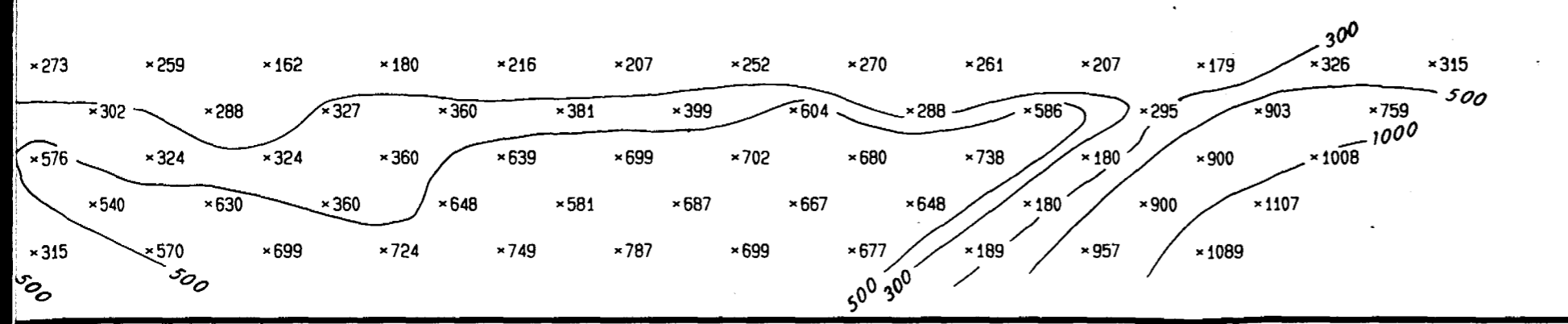
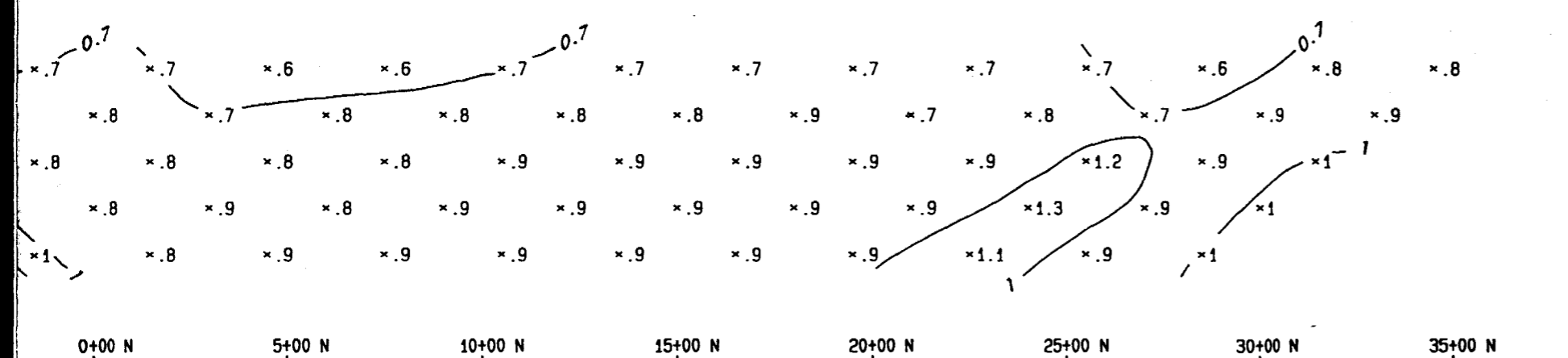
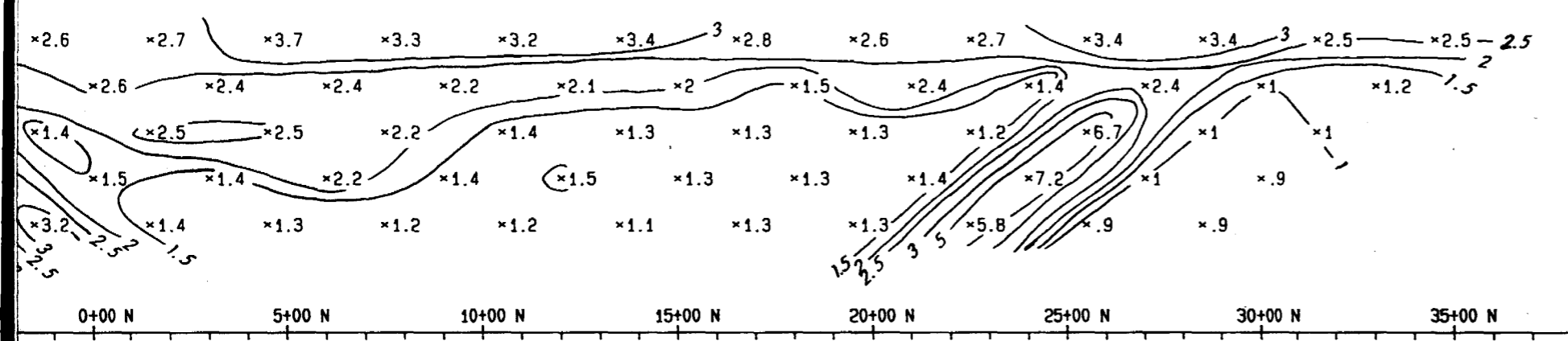
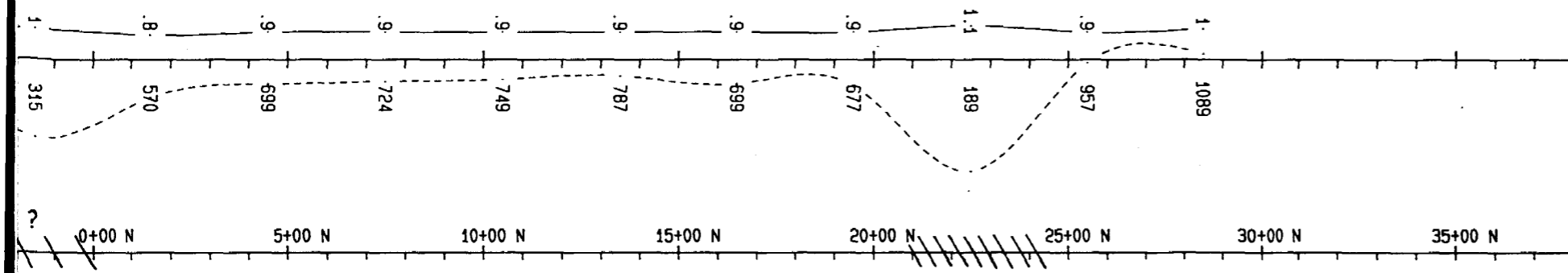


1 in. : 1 cycle

10000

1000

100



FALCONBRIDGE LIMITED

GARRISON TOWNSHIP

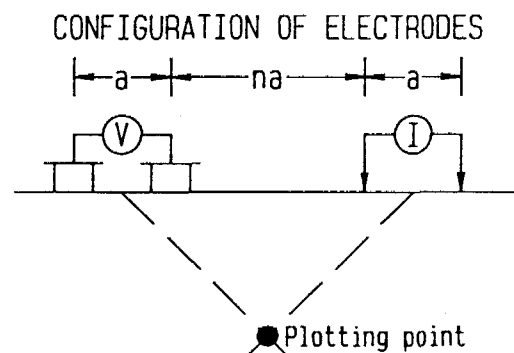
INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet
Separation between dipole : n = 1, 2, 3, 4, 5



Operators: G. Beier

63.4487

L-38+00 E

BY : GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

INTERPRETED BY :

DRAWN BY : J. Proulx Tech. July 1984

N.T.S.: 320/12 PLAN NO : 84-974-04

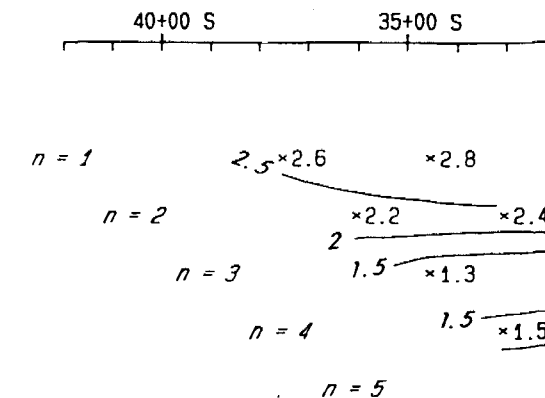
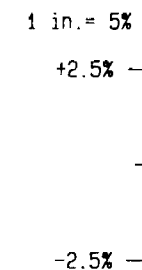
GARRISON CREEK
Garrison twp., Ontario.

Scale : 1" = 400'

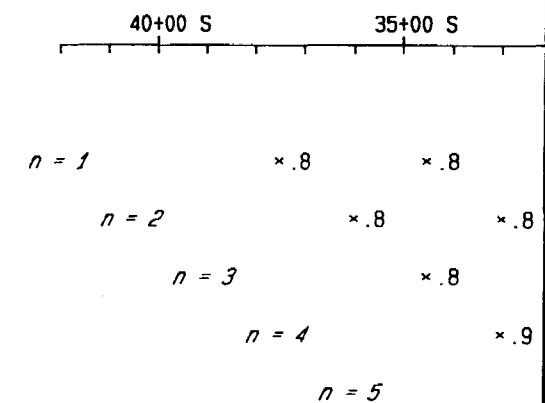


L-38+00 E
5th SEP.

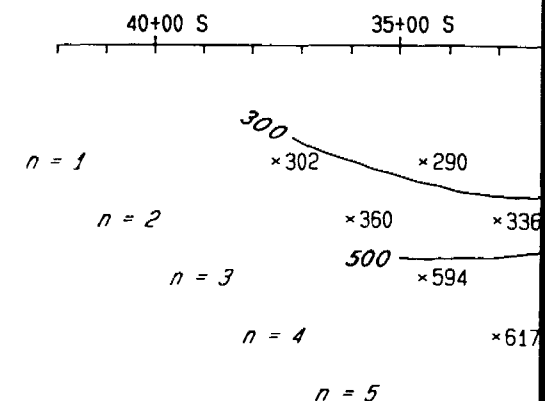
L-38+00 E
METAL FACTOR
(Ef/Res. * 1000%)

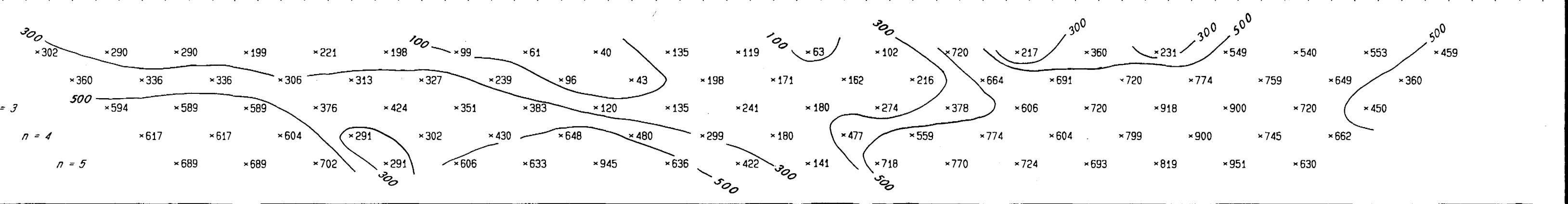
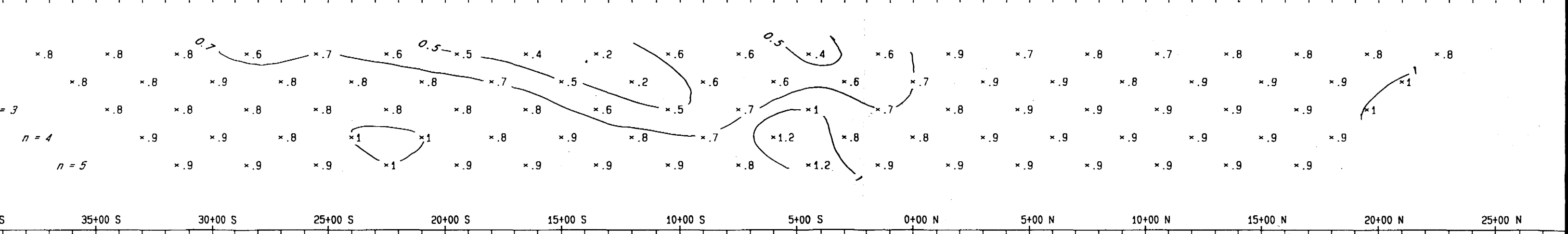
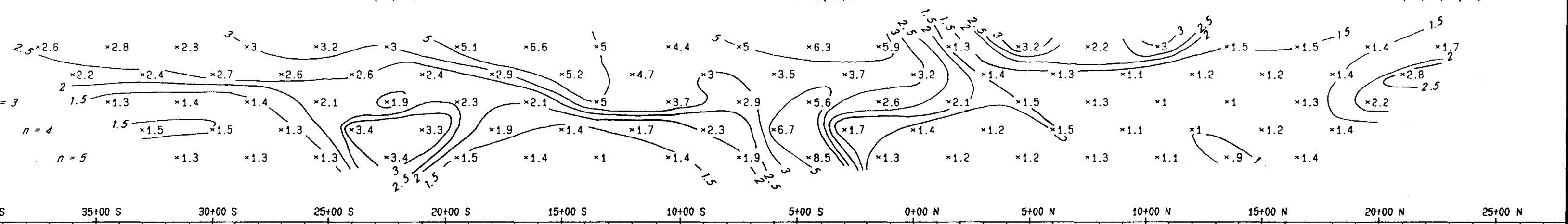
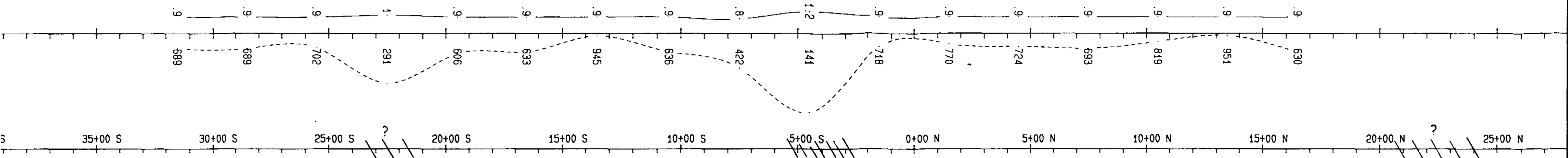


L-38+00 E
FREQUENCY EFFECT

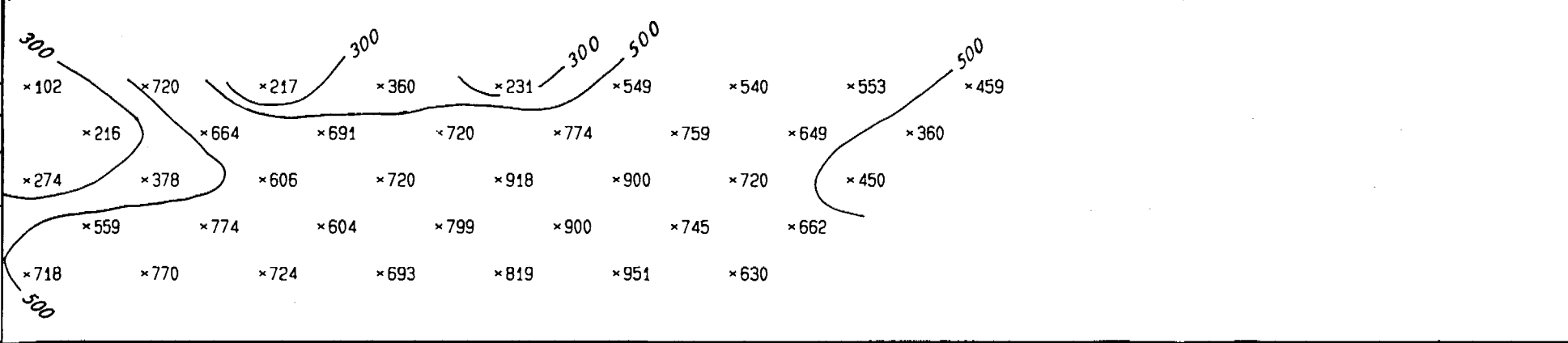
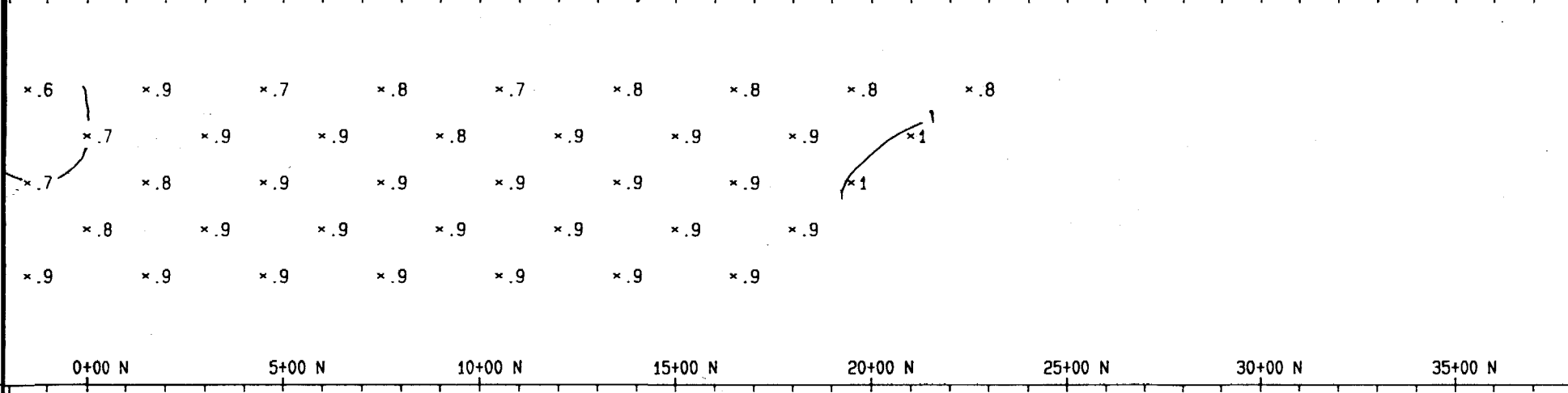
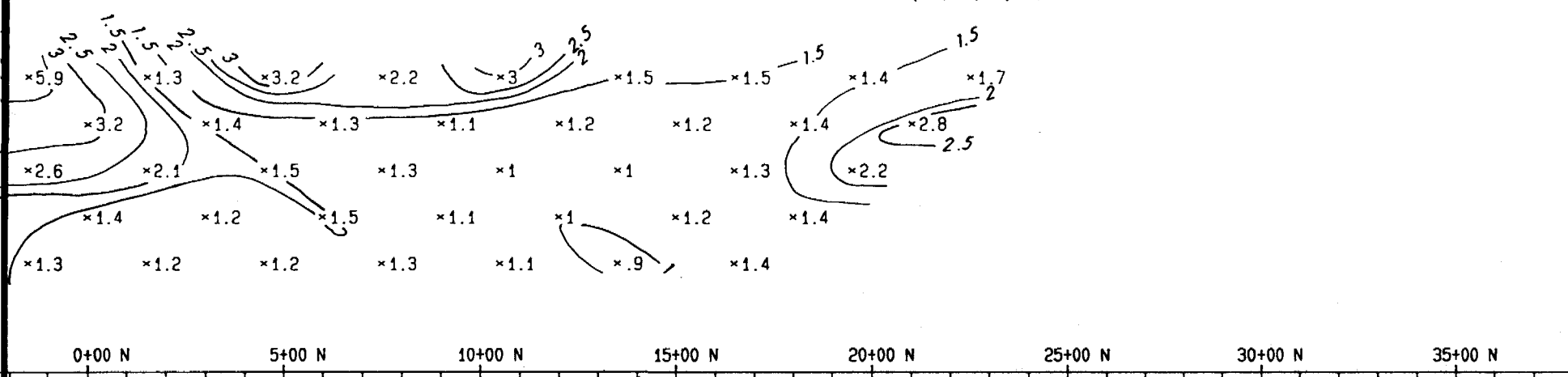
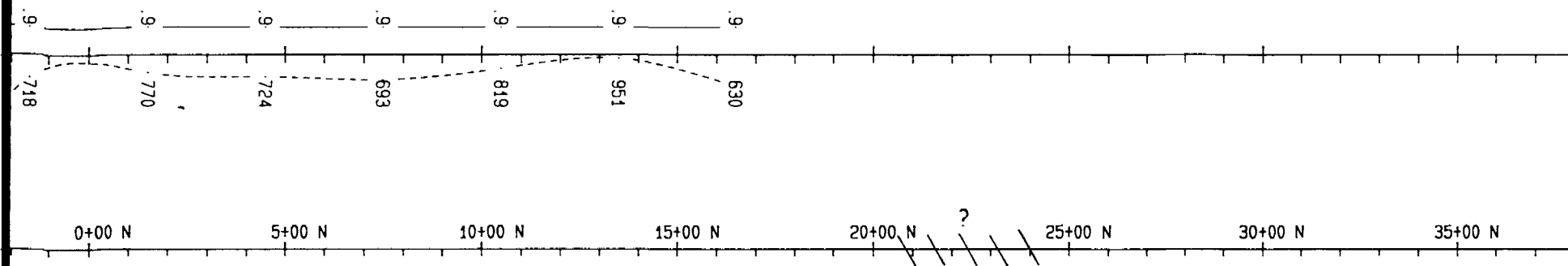
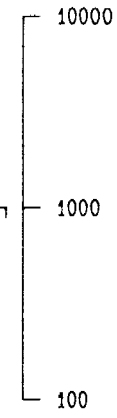


L-38+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)





1 in. : 1 cycle



FALCONBRIDGE LIMITED

GARRISON TOWNSHIP

INDUCED POLARIZATION SURVEY

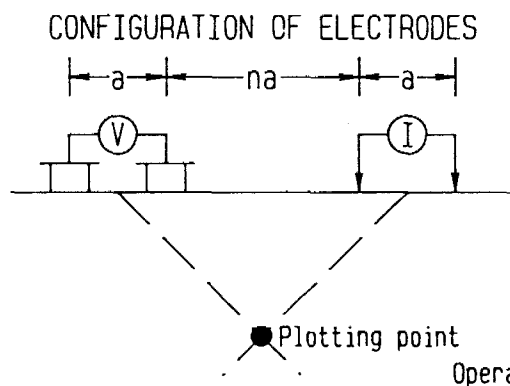
Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet

Separation between dipole : n = 1, 2, 3, 4, 5



63.4487

L-44+00 E

BY : GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

INTERPRETED BY :

DRAWN BY : J. Proulx Tech. July 1984

N.T.S.: 320/12 PLAN NO : 84-974-05

GARRISON CREEK
Garrison twp., Ontario.

Scale : 1" = 400'

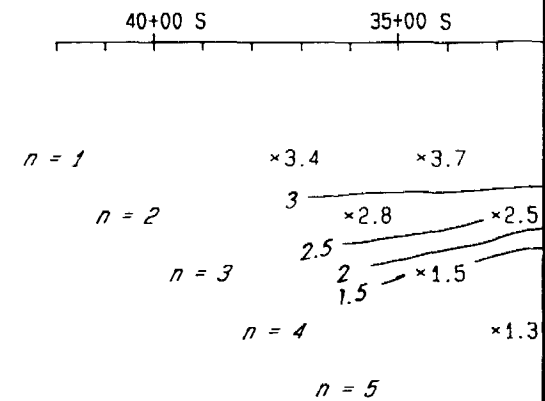
0 200 400 600 800

L-44+00 E
5th SEP.

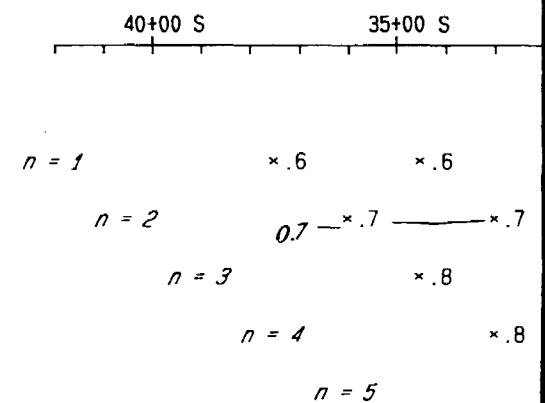
1 in. = 5%

+2.5%
-2.5%

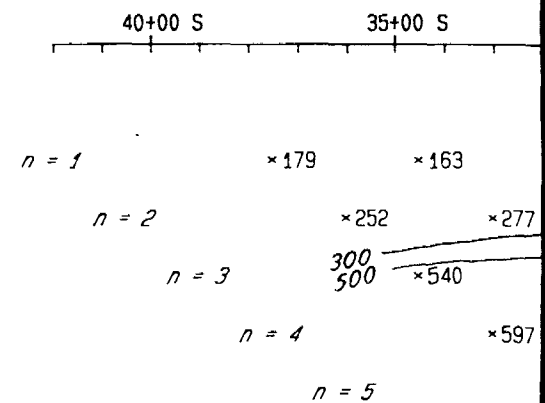
L-44+00 E
METAL FACTOR
(Ef/Res. * 1000%)

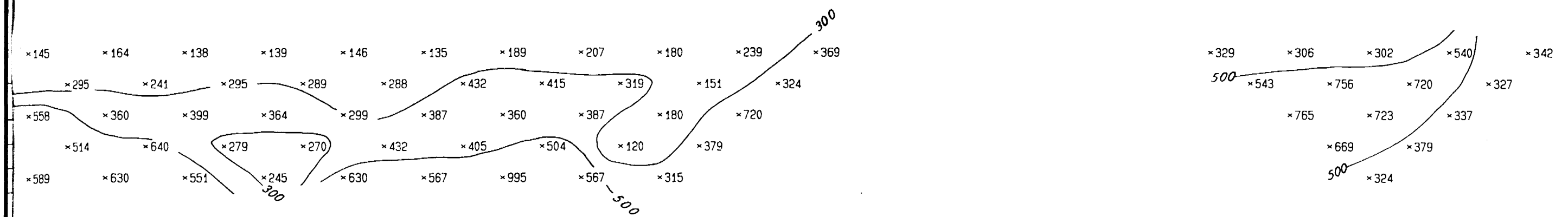
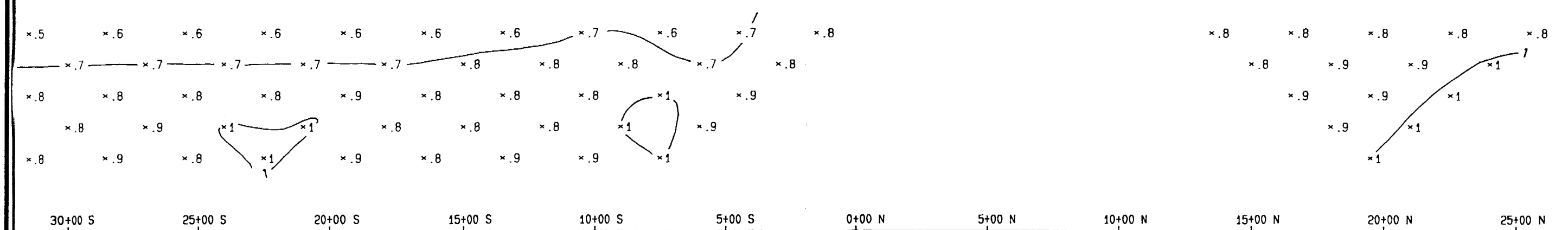
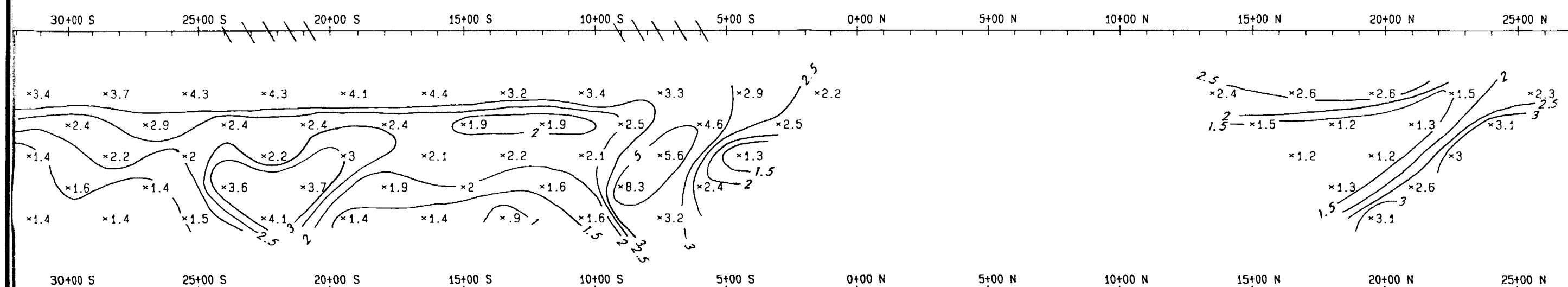
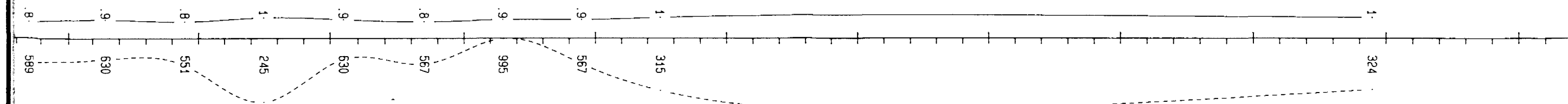


L-44+00 E
FREQUENCY EFFECT



L-44+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)





1 in. : 1 cycle

10000

1000

100

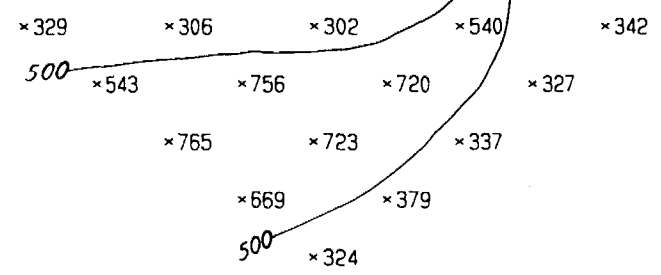
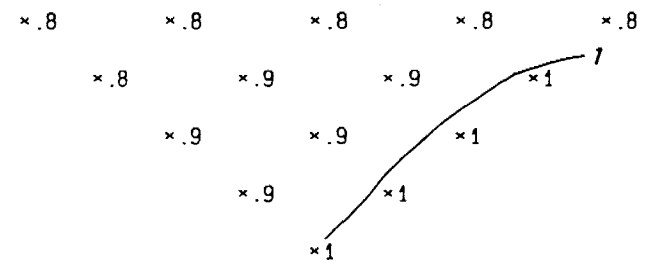
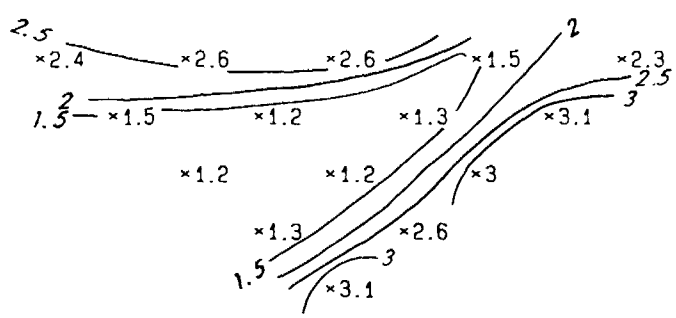


0+00 N 5+00 N 10+00 N 15+00 N 20+00 N 25+00 N 30+00 N 35+00 N

0+00 N 5+00 N 10+00 N 15+00 N 20+00 N 25+00 N 30+00 N 35+00 N

0+00 N 5+00 N 10+00 N 15+00 N 20+00 N 25+00 N 30+00 N 35+00 N

1
324



FALCONBRIDGE LIMITED

GARRISON TOWNSHIP

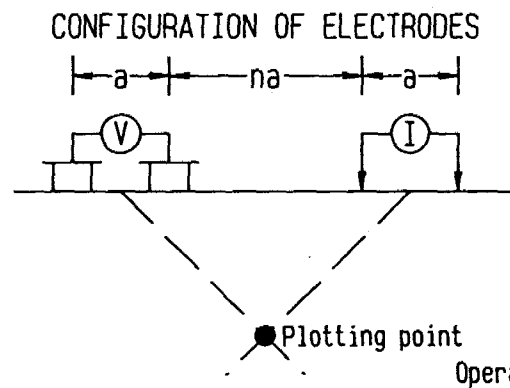
INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : $a = 300$ feet
Separation between dipole : $n = 1, 2, 3, 4, 5$



Operators: G. Beier

63.4487

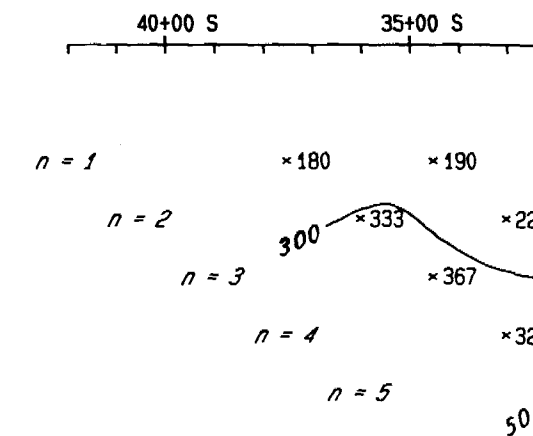
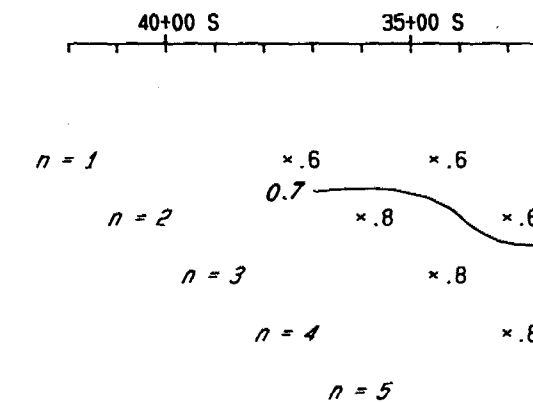
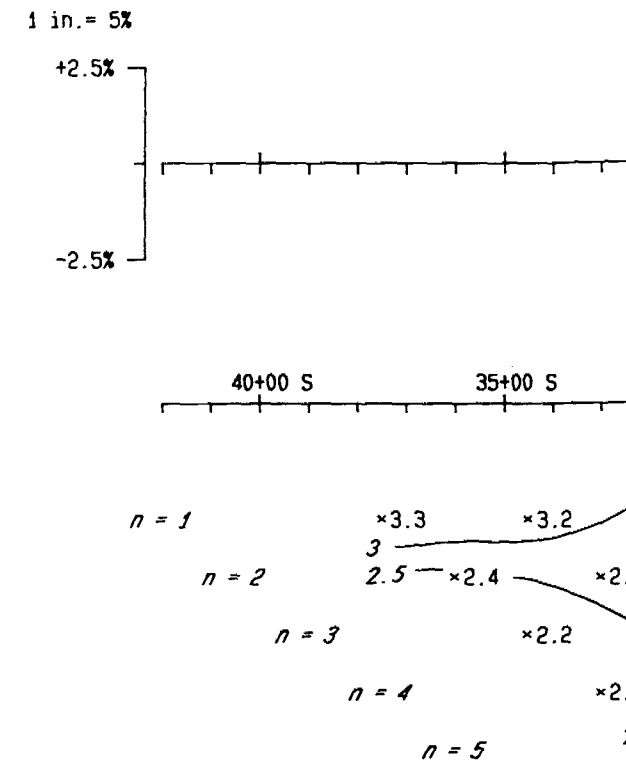
L-50+00 E

L-50+00 E
5th SEP.

L-50+00 E
METAL FACTOR
($E_f/Res. \times 1000\%$)

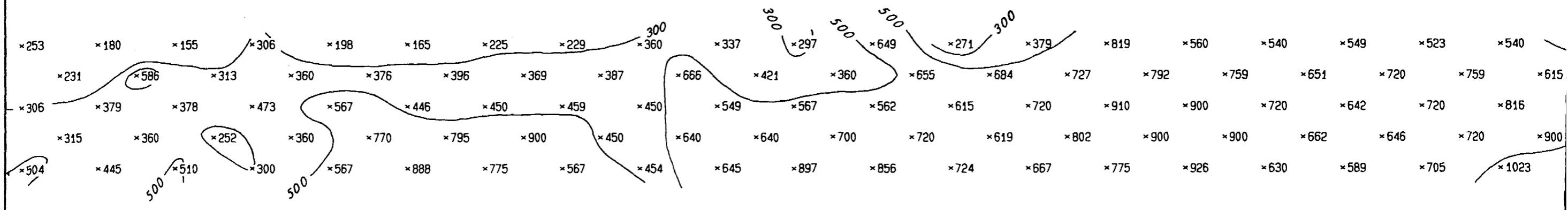
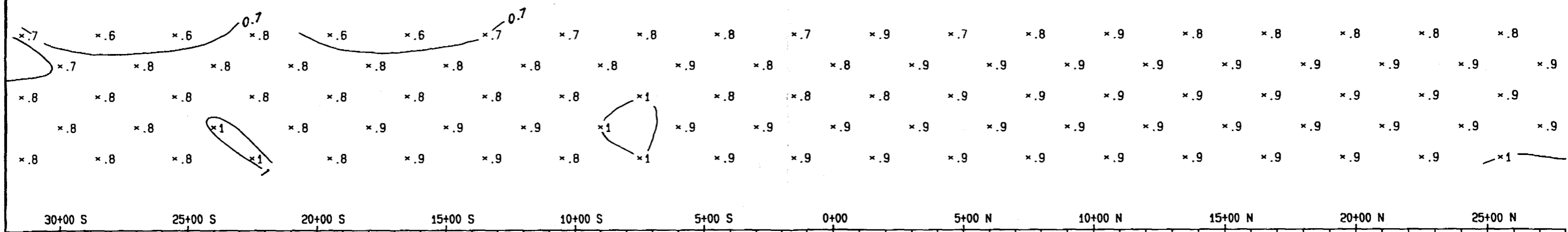
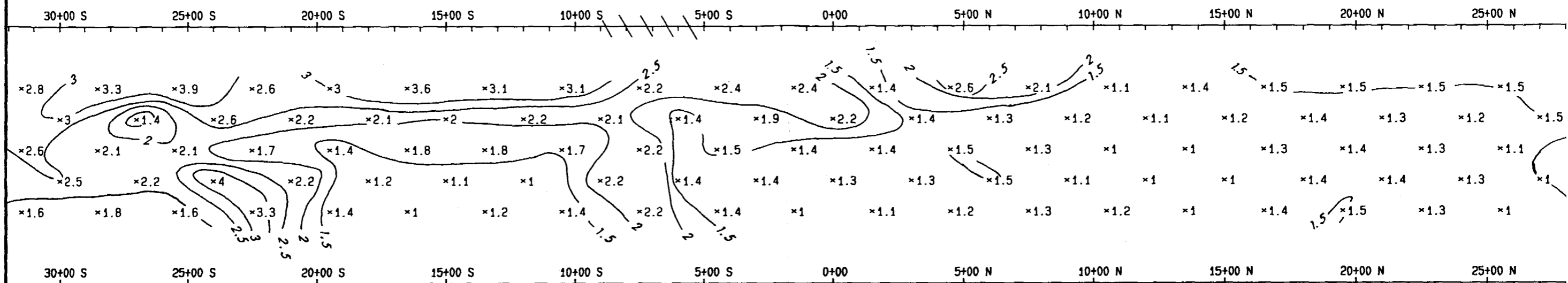
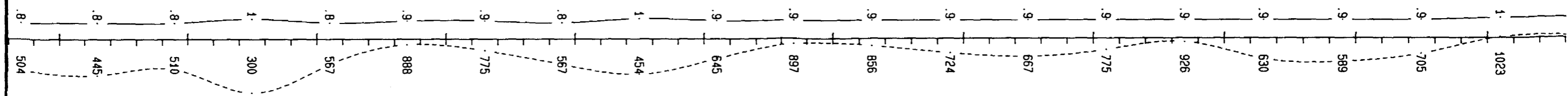
L-50+00 E
FREQUENCY EFFECT

L-50+00 E
RESISTIVITY
($\rho_a/2\pi$, Ohm-metres)

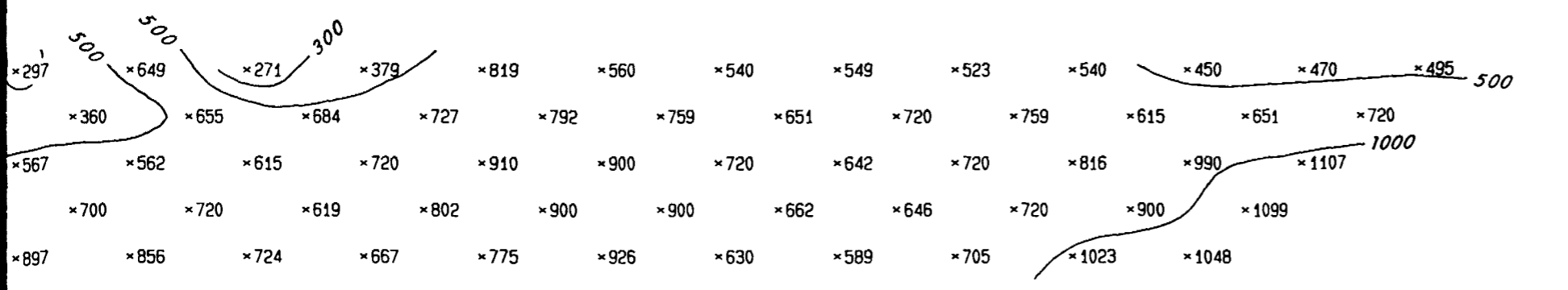
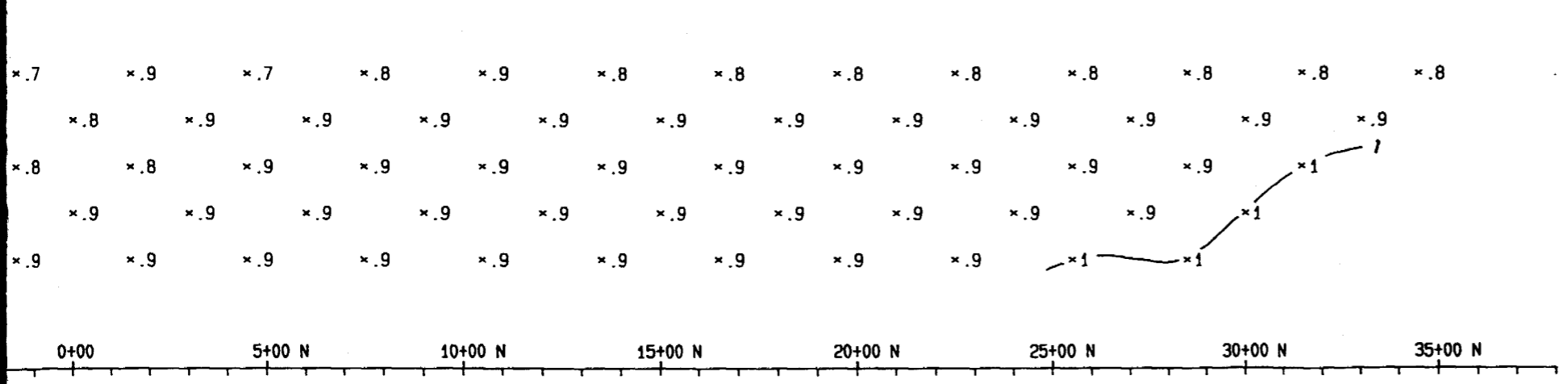
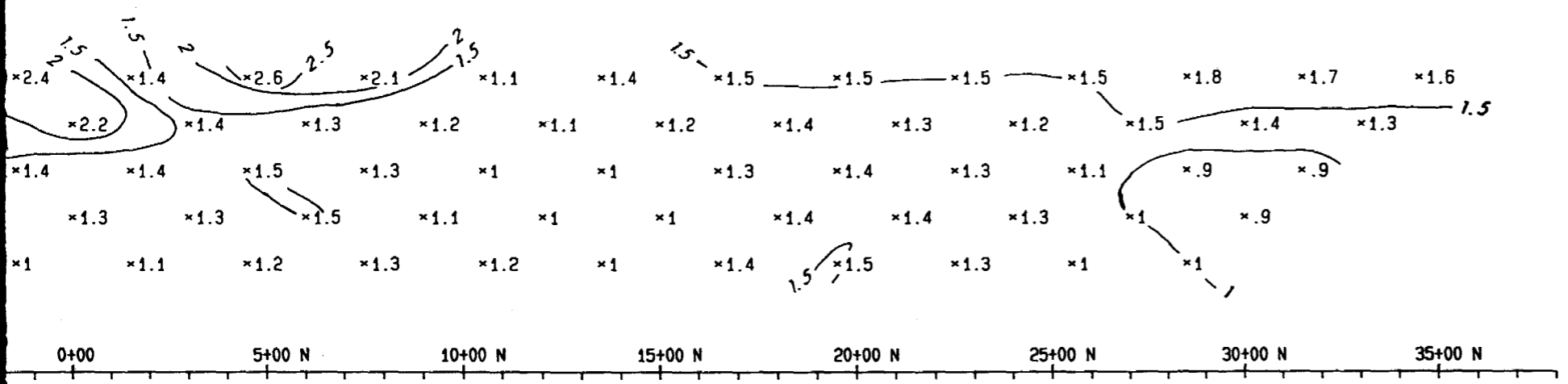
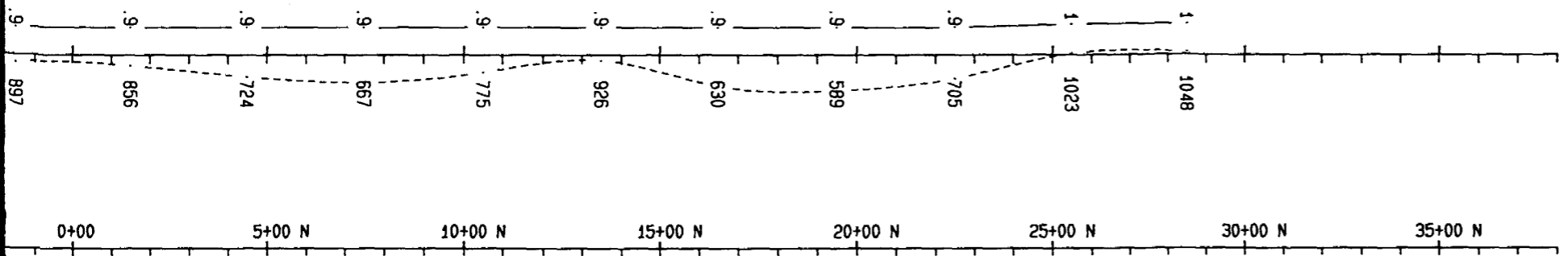
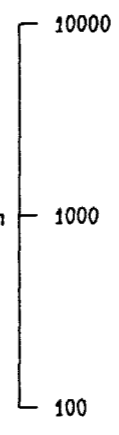


BY :	GÉOLA LTÉE	
EXECUTED BY :	G. Beier	May 1984
INTERPRETED BY :		
DRAWN BY :	J. Proulx Tech.	July 1984
N.T.S.:	320/12	PLAN NO : 84-974-06

GARRISON CREEK
Garrison twp., Ontario.
Scale : 1" = 400'



1 in. : 1 cycle



FALCONBRIDGE LIMITED

GARRISON TOWNSHIP

INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

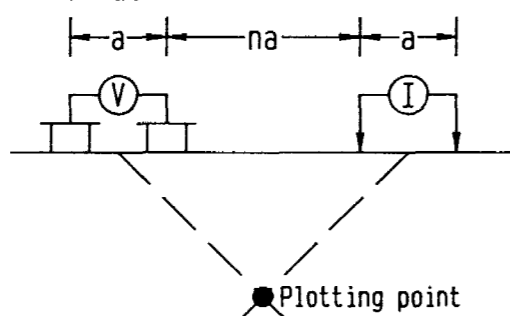
Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet

Separation between dipole : n = 1, 2, 3, 4, 5

CONFIGURATION OF ELECTRODES



Operators: G. Beier

63,4487

L-56+00 E

BY : GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

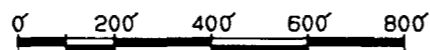
INTERPRETED BY :

DRAWN BY : J. Proulx Tech. July 1984

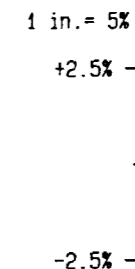
N.T.S.: 320/12 PLAN NO : 84-974-07

GARRISON CREEK
Garrison twp., Ontario.

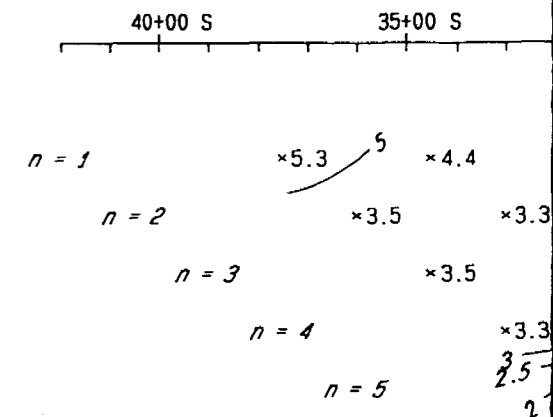
Scale : 1" = 400'



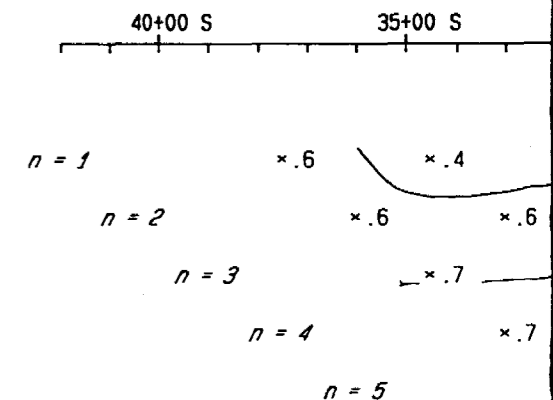
L-56+00 E
5th SEP.



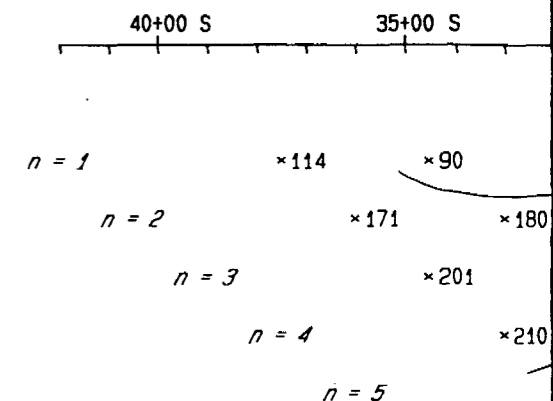
L-56+00 E
METAL FACTOR
(E_f/Res. * 1000%)

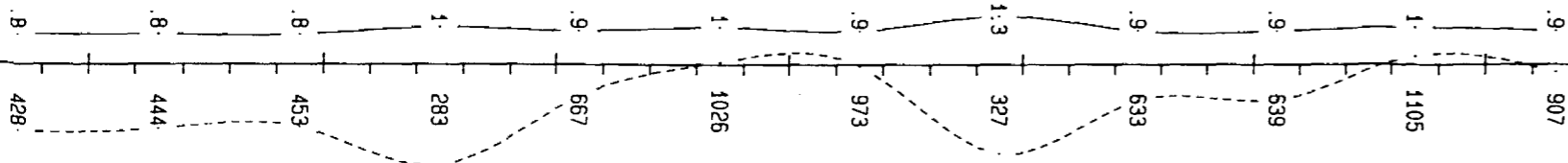


L-56+00 E
FREQUENCY EFFECT

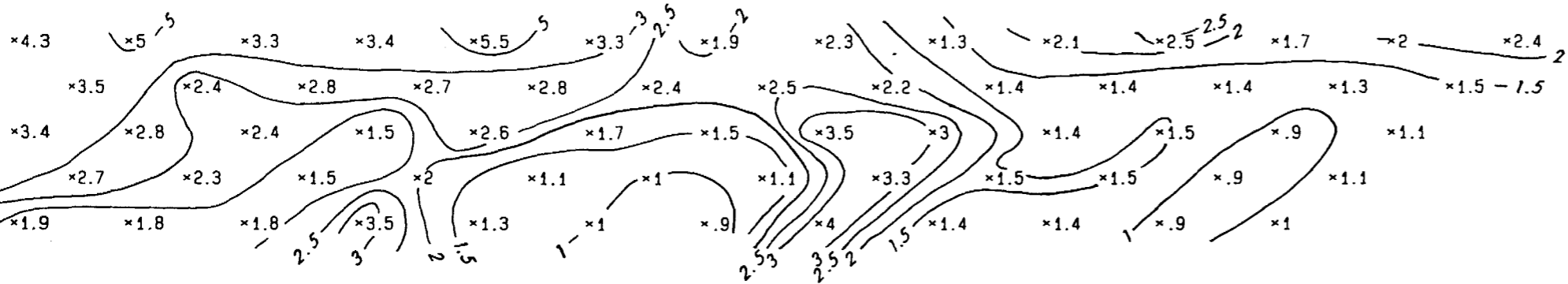


L-56+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)

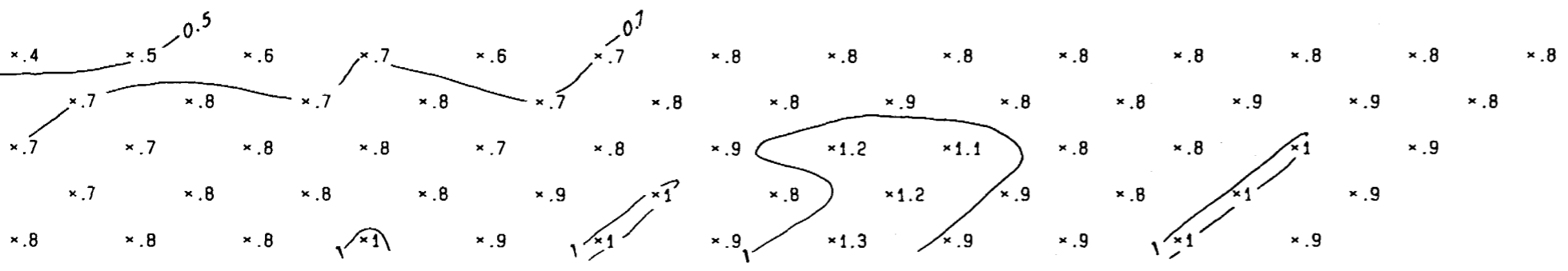




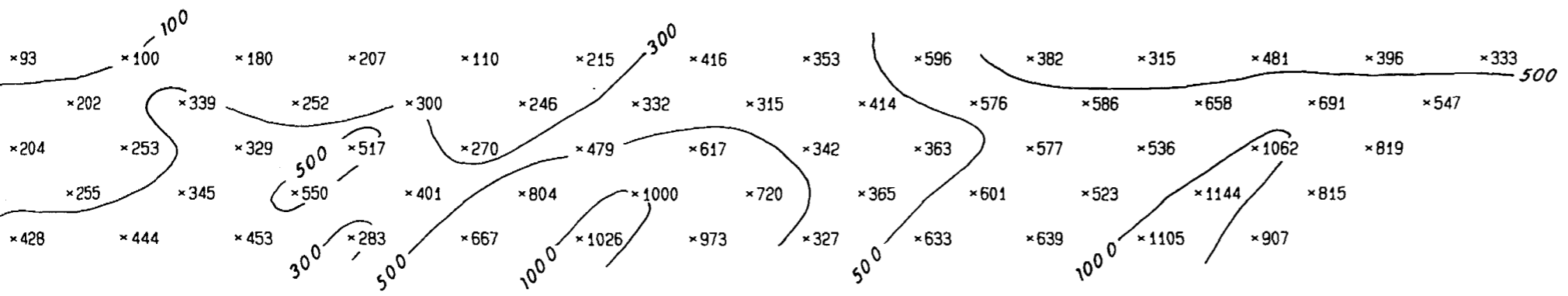
30+00 S 25+00 S 20+00 S 15+00 S 10+00 S 5+00 S 0+00 N 5+00 N 10+00 N 15+00 N 20+00 N 25+00 N



30+00 S 25+00 S 20+00 S 15+00 S 10+00 S 5+00 S 0+00 N 5+00 N 10+00 N 15+00 N 20+00 N 25+00 N



30+00 S 25+00 S 20+00 S 15+00 S 10+00 S 5+00 S 0+00 N 5+00 N 10+00 N 15+00 N 20+00 N 25+00 N

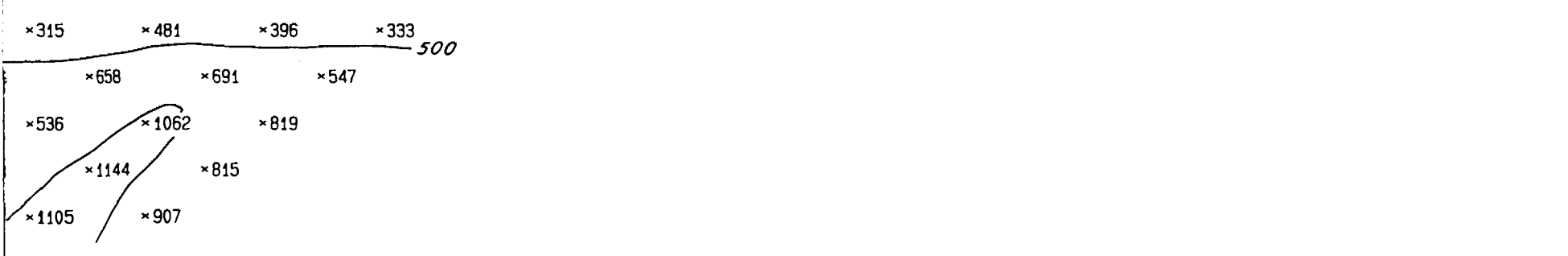
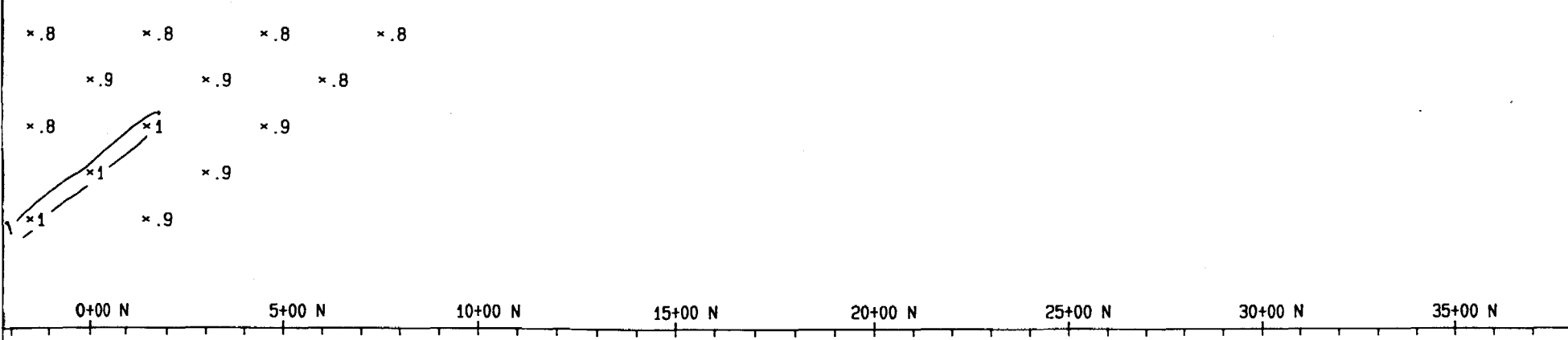
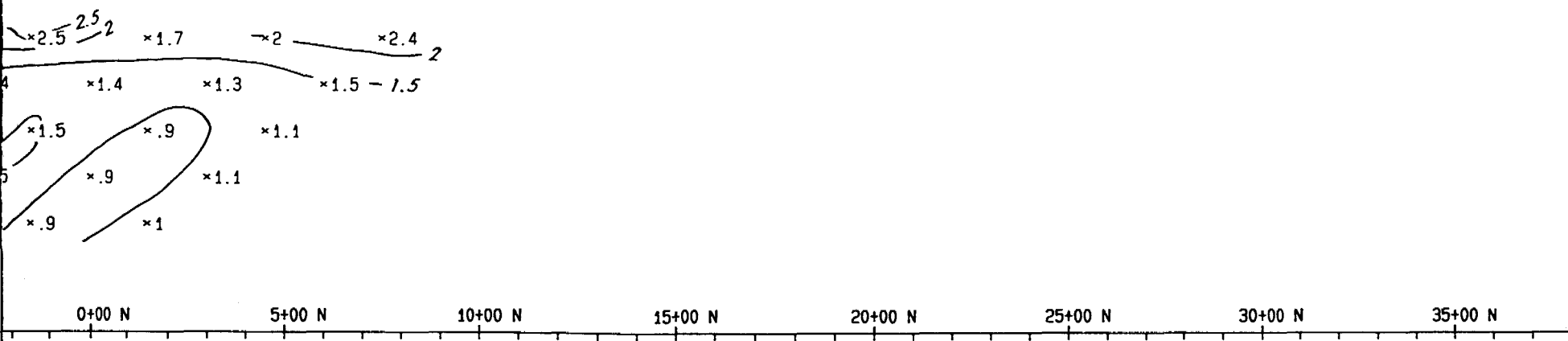
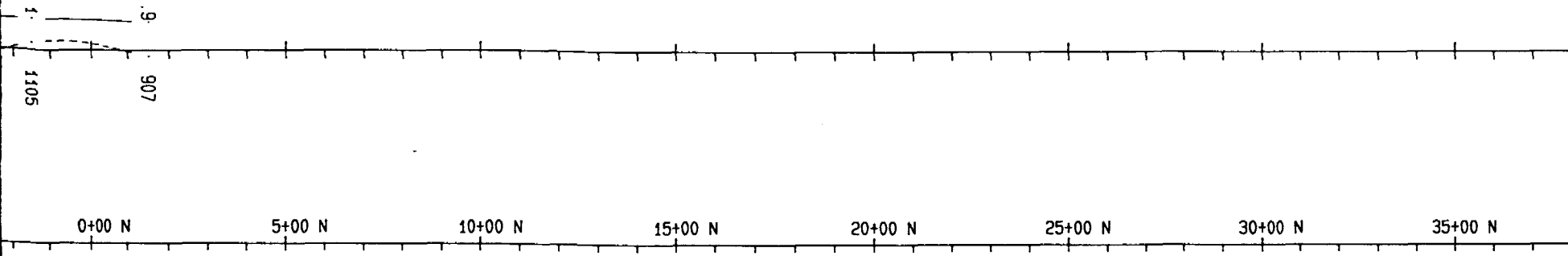


1 in. : 1 cycle

10000

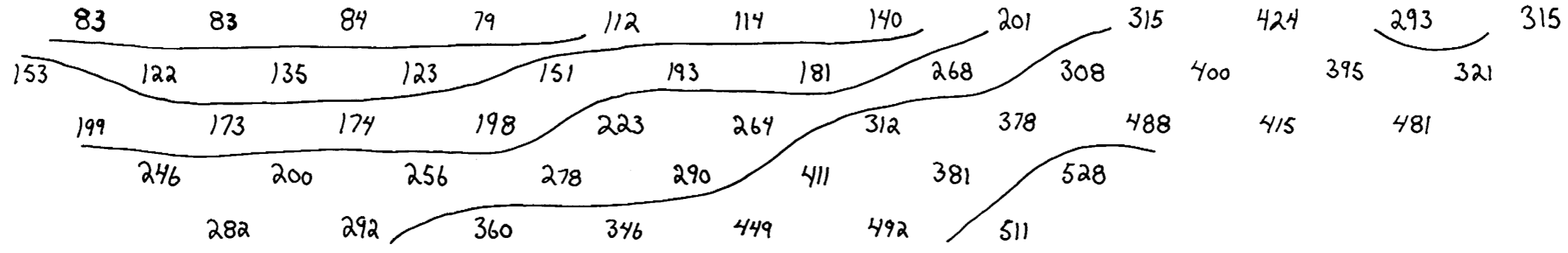
1000

100



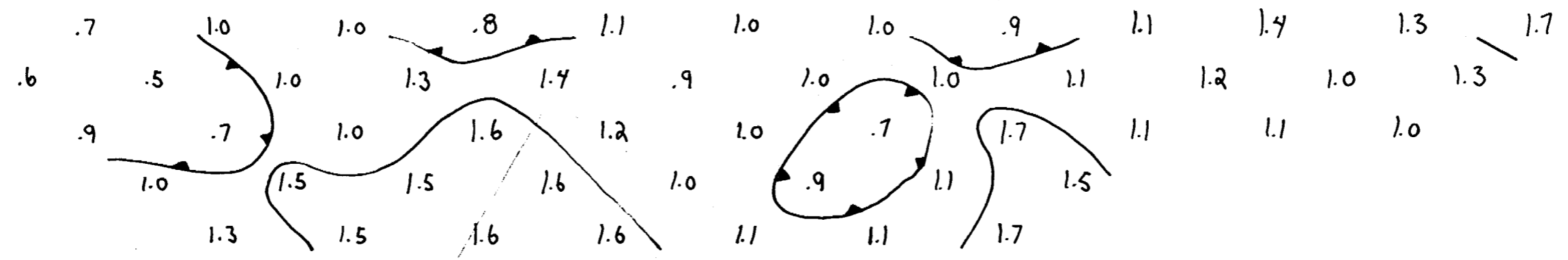
365 335 305 275 245 215 185 155 125 95 65 35 0 3N

RESISTIVITY (APP) IN



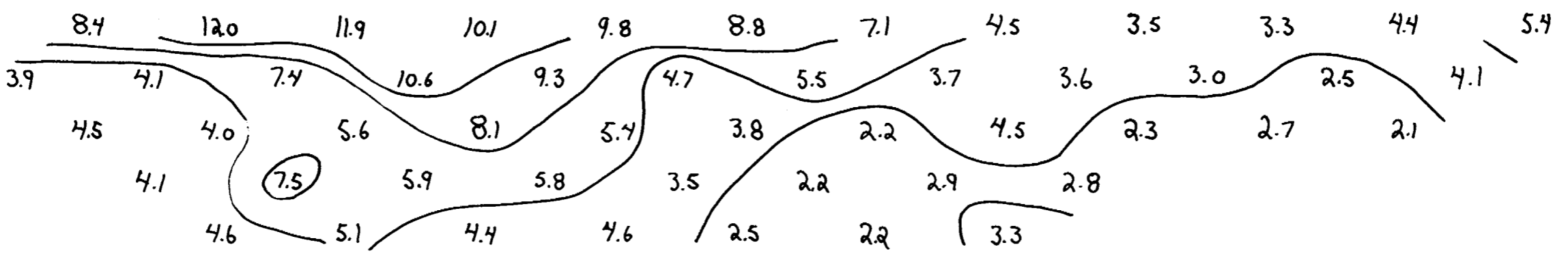
DDH# 605/04
1621'

FREQUENCY EFFECT (A



365 335 305 275 245 215 185 155 125 95 65 35 0 3N

METAL FACTOR (APP

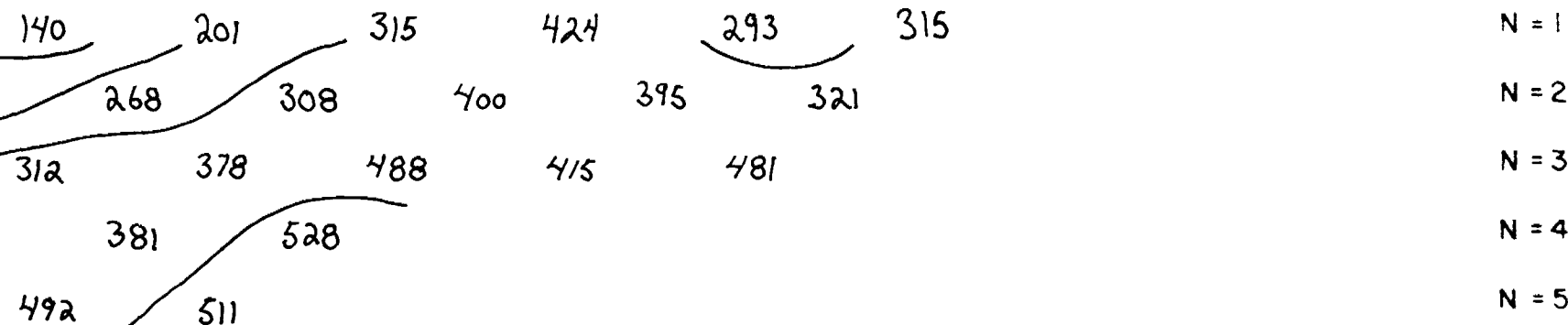


FLAT SWAMP

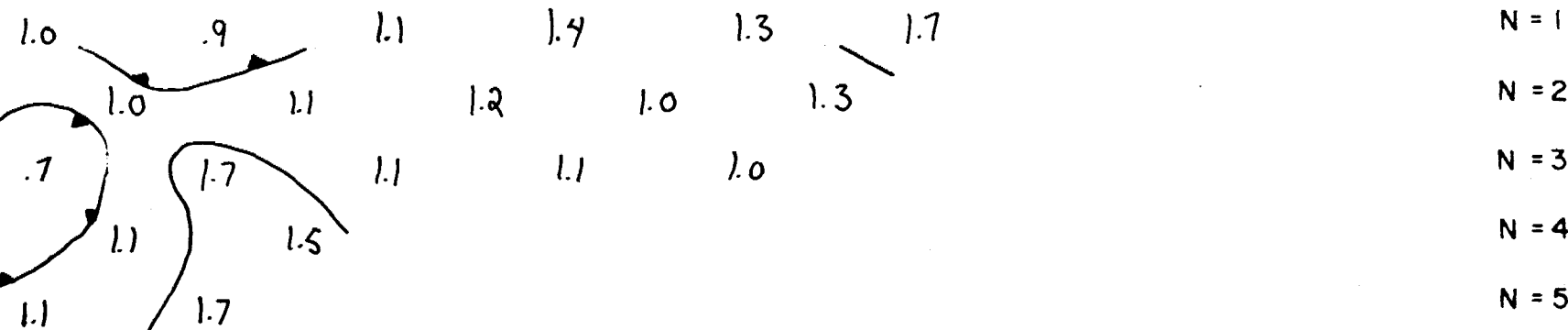


155 125 95 65 35 0 3N

RESISTIVITY (APP) IN OHM FEET

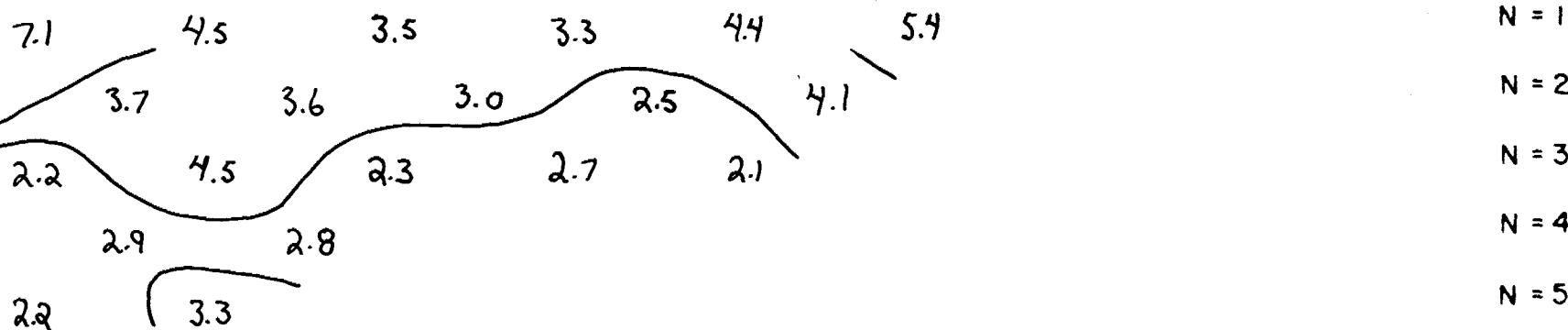


FREQUENCY EFFECT (APP) IN %



155 125 95 65 35 0 3N

METAL FACTOR (APP)

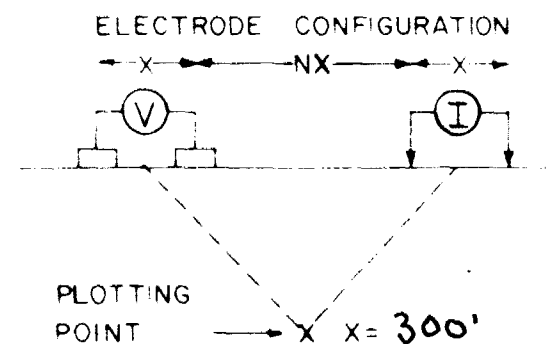


COMPANY: FALCONBRIDGE LTD

PROPERTY: GARRISON CREEK Pn 605

PERRY LAKE MATHESON ONTARIO

LINE NO - 60E



SURFACE PROJECTION OF ANOMALOUS ZONES

FREQUENCIES: 3 & 50 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 AUGUST - 21 - 1984

APPROVED _____

OPERATOR REMY BELANGER DATE _____

63,4487

INDUCED POLARIZATION AND RESISTIVITY SURVEY

FALCONBRIDGE LIMITED

GARRISON TOWNSHIP

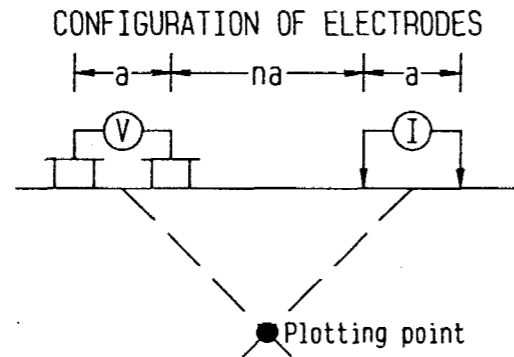
INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet
Separation between dipole : n = 1, 2, 3, 4, 5



Operators: G. Beier

63.4487

L-62+00 E

BY :

GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

INTERPRETED BY :

DRAWN BY : J. Proulx Tech. July 1984

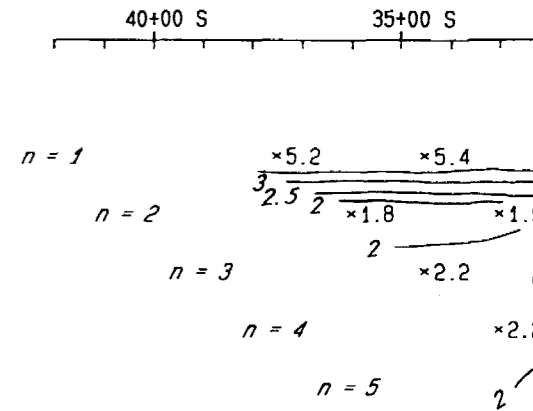
N.T.S.: 320/12 PLAN NO : 84-974-09

GARRISON CREEK
Garrison twp., Ontario.
Scale : 1" = 400'
0 200 400 600 800

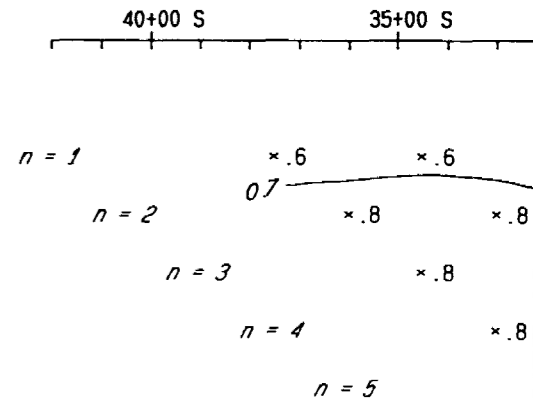
L-62+00 E
5th SEP.

1 in. = 5%
+2.5%
-2.5%

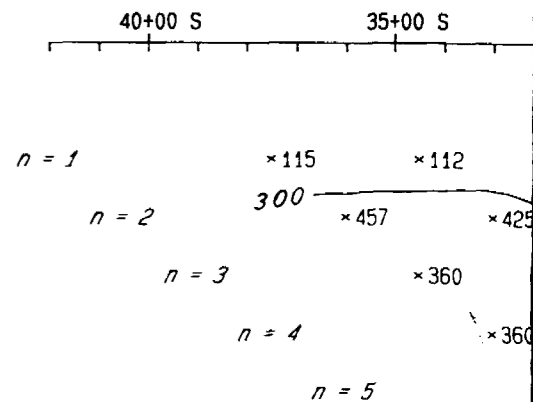
L-62+00 E
METAL FACTOR
(Ef/Res. * 1000%)

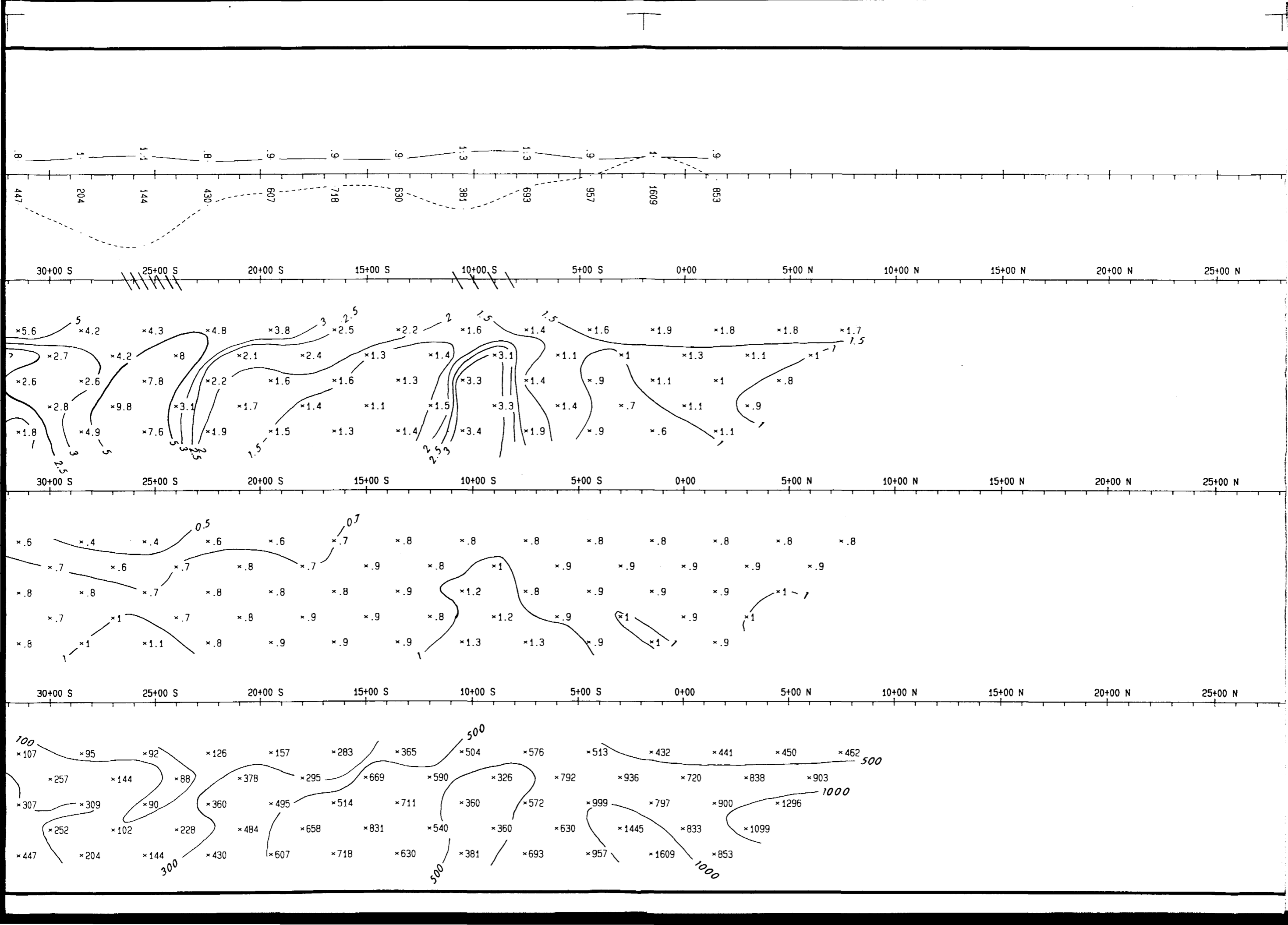


L-62+00 E
FREQUENCY EFFECT



L-62+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)



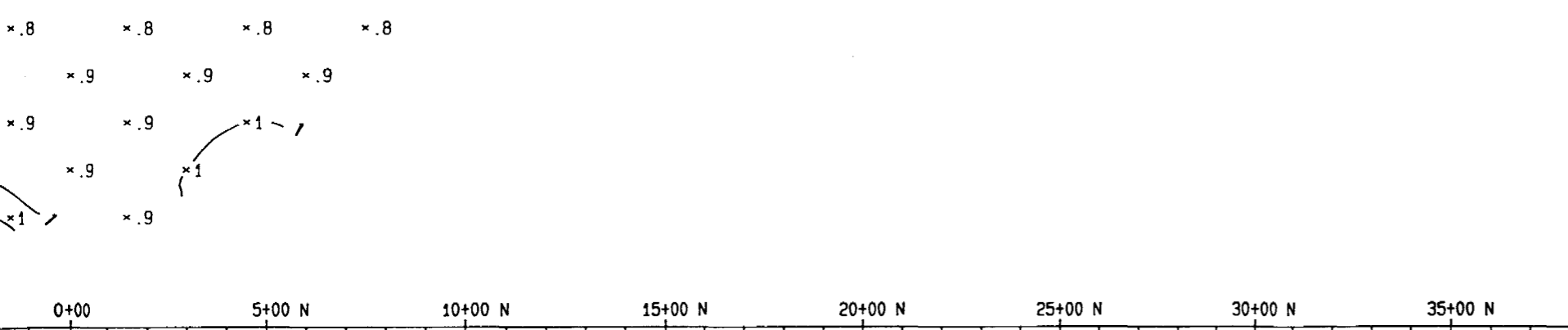
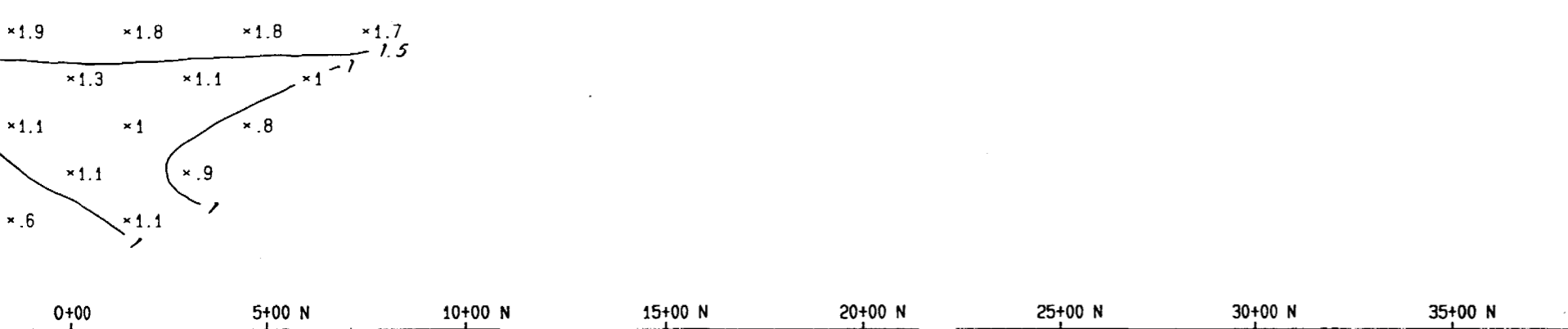
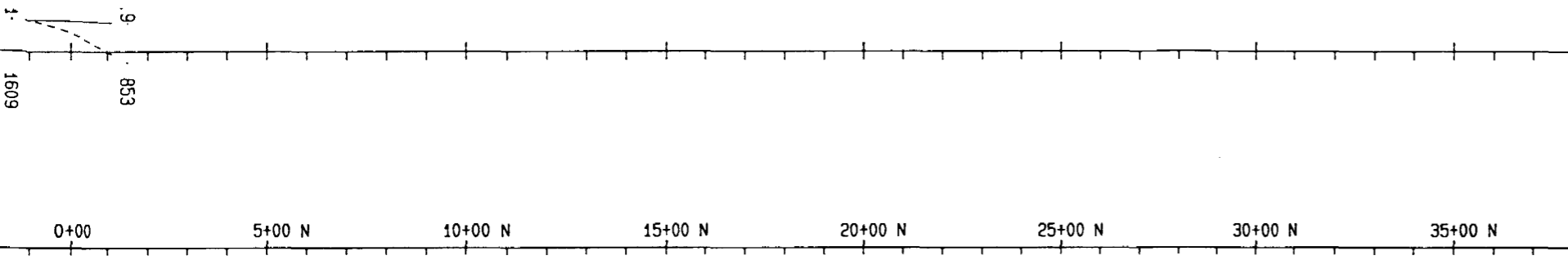


1 in. : 1 cycle

10000

1000

100



FALCONBRIDGE LIMITED

GARRISON TOWNSHIP

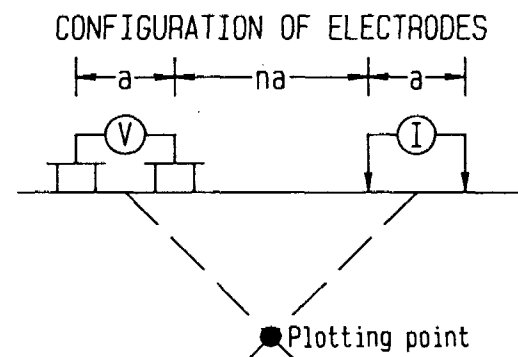
INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet
Separation between dipole : n = 1, 2, 3, 4, 5



Operators: G. Beier

63.4487

L-68+00 E

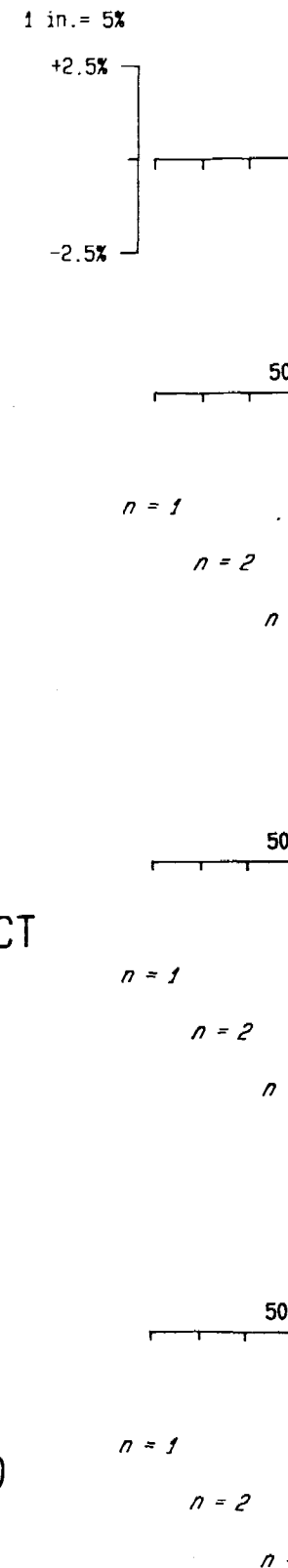
BY :		GÉOLA LTÉE	
EXECUTED BY :	G. Beier	May 1984	GARRISON CREEK Garrison twp., Ontario. Scale : 1" = 400'
INTERPRETED BY :			
DRAWN BY :	J. Proulx Tech.	July 1984	
N.T.S.:	320/12	PLAN NO : 84-974-10	

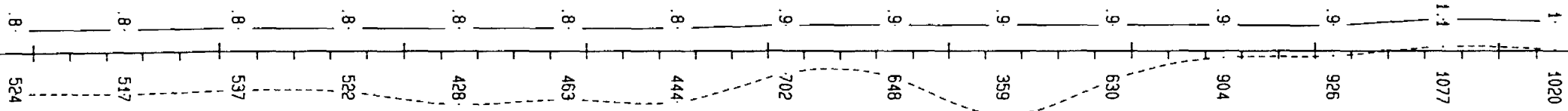
L-68+00 E
5th SEP.

L-68+00 E
METAL FACTOR
(Ef/Res. * 1000%)

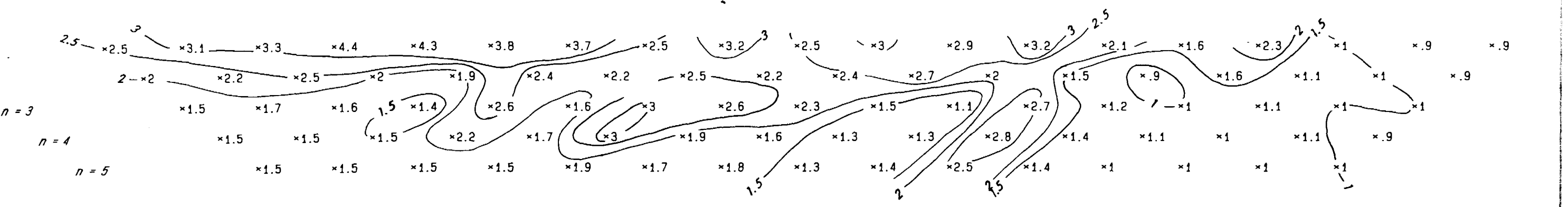
L-68+00 E
FREQUENCY EFFECT

L-68+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)

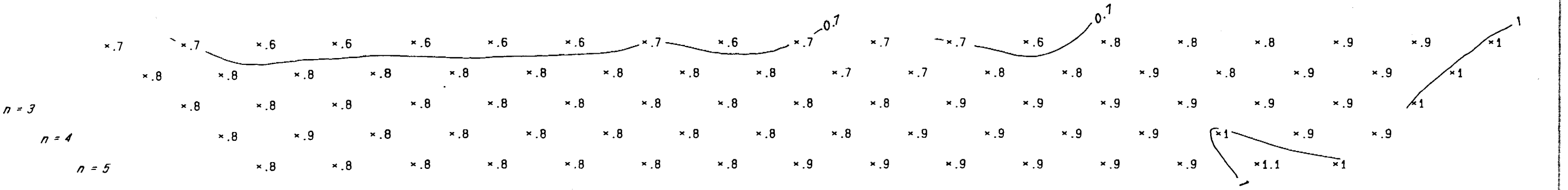




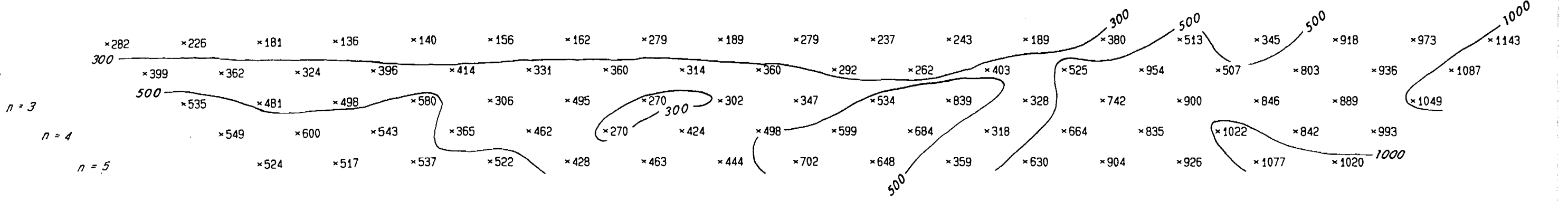
50+00 S 45+00 S 40+00 S 35+00 S 30+00 S 25+00 S 20+00 S 15+00 S 10+00 S 5+00 S 0+00 5+00 N 10+



50+00 S 45+00 S 40+00 S 35+00 S 30+00 S 25+00 S 20+00 S 15+00 S 10+00 S 5+00 S 0+00 5+00 N 10+



50+00 S 45+00 S 40+00 S 35+00 S 30+00 S 25+00 S 20+00 S 15+00 S 10+00 S 5+00 S 0+00 5+00 N 10+



FALCONBRIDGE LIMITED

GARRISON TOWNSHIP

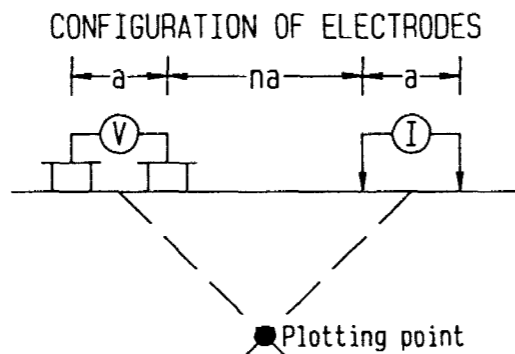
INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet
Separation between dipole : n = 1, 2, 3, 4, 5



Operators: G. Beier

63.4487
L-74+00 E

BY :

GÉOLA LTÉE

EXECUTED BY : G. Beier

May 1984

INTERPRETED BY :

DRAWN BY : J. Proulx Tech.

July 1984

N.T.S.: 320/12

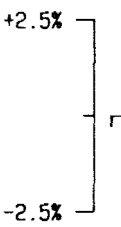
PLAN NO : 84-974-11

GARRISON CREEK
Garrison twp., Ontario.

Scale : 1" = 400'

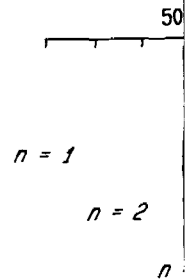
0 200 400 600 800

1 in. = 5%

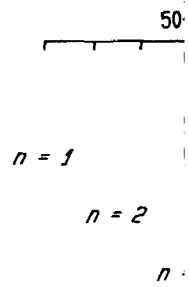


L-74+00 E
5th SEP.

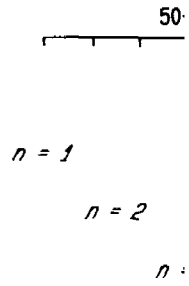
L-74+00 E
METAL FACTOR
(Ef/Res. * 1000%)

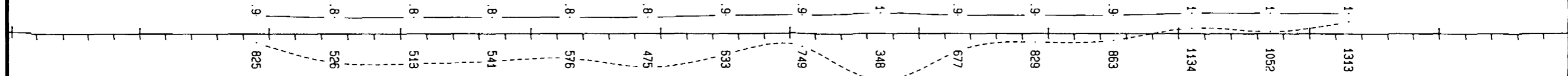


L-74+00 E
FREQUENCY EFFECT

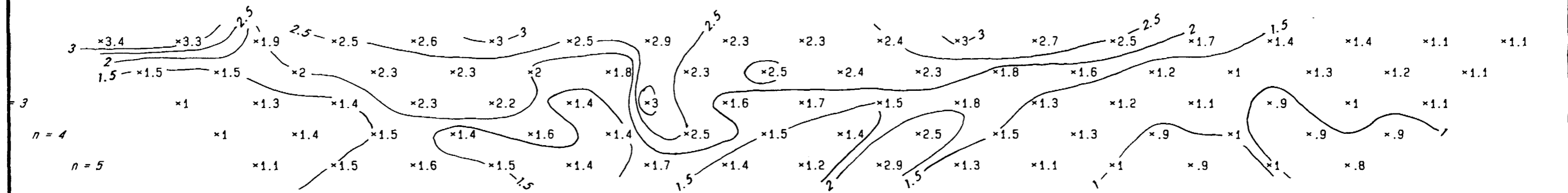


L-74+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)

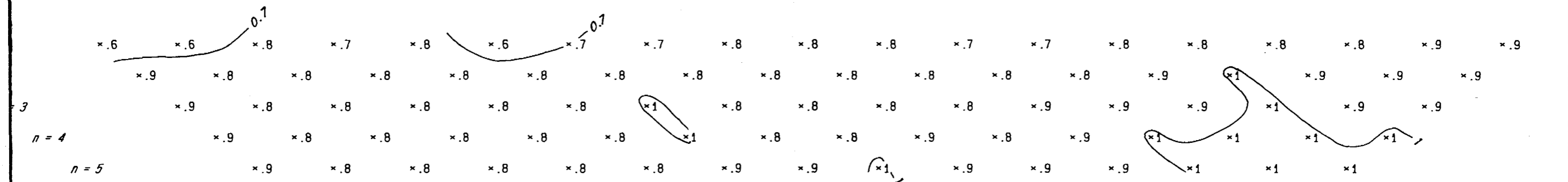




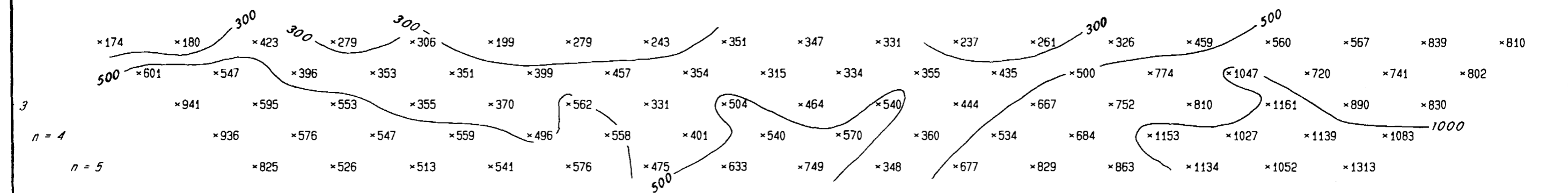
10+00 S 45+00 S 40+00 S 35+00 S 30+00 S 25+00 S 20+00 S 15+00 S 10+00 S 5+00 S 0+00 5+00 N 10+00



10+00 S 45+00 S 40+00 S 35+00 S 30+00 S 25+00 S 20+00 S 15+00 S 10+00 S 5+00 S 0+00 5+00 N 10+00

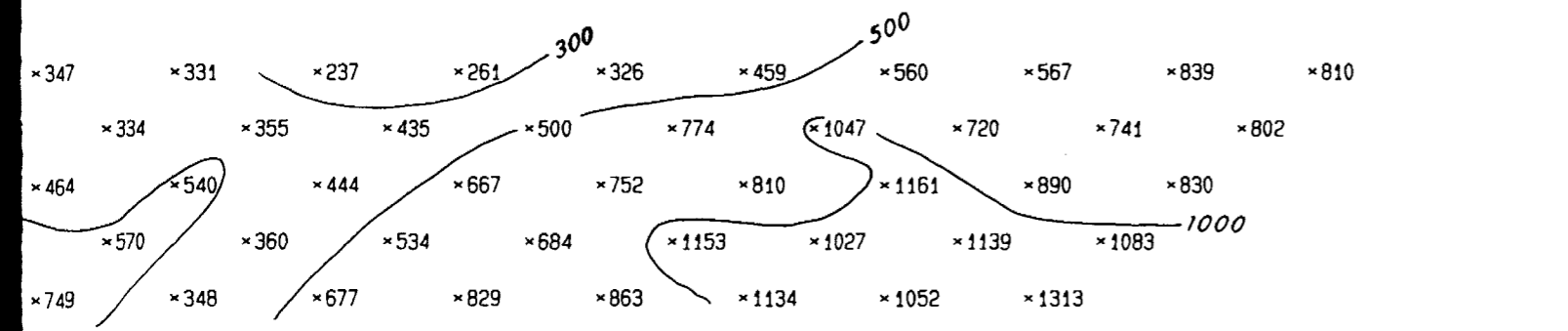
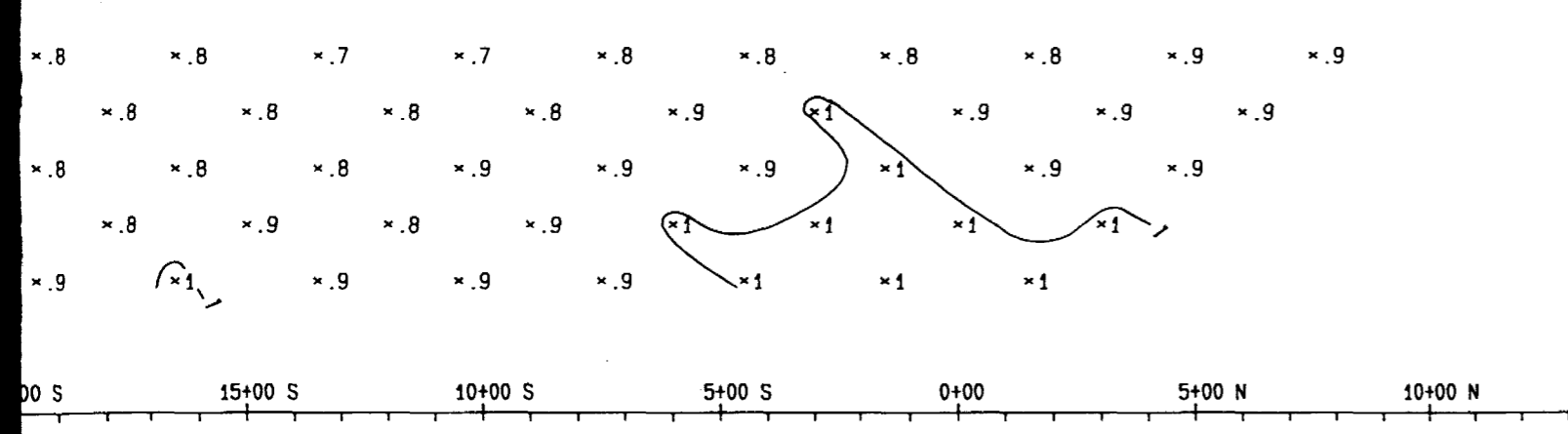
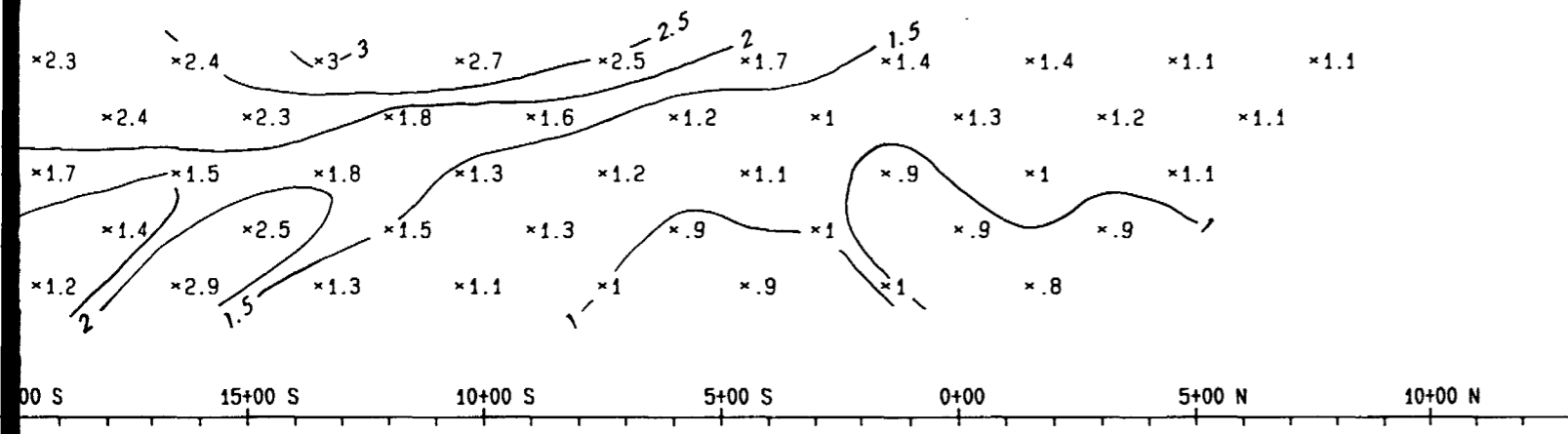
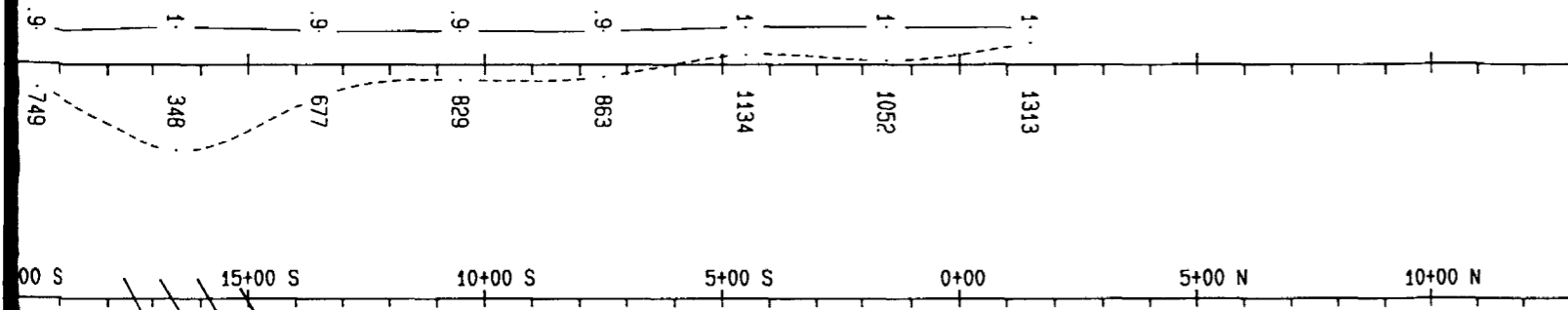


10+00 S 45+00 S 40+00 S 35+00 S 30+00 S 25+00 S 20+00 S 15+00 S 10+00 S 5+00 S 0+00 5+00 N 10+00



1 in. : 1 cycle

10000
1000
100



FALCONBRIDGE LIMITED

GARRISON TOWNSHIP

INDUCED POLARIZATION SURVEY

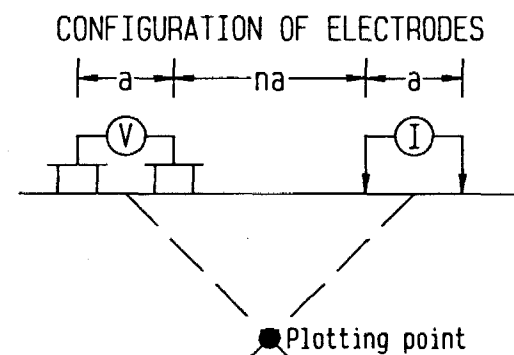
Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet

Separation between dipole : n = 1, 2, 3, 4, 5



Operators: G. Beier

63,4487

L-80+00 E

BY : GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

INTERPRETED BY :

DRAWN BY : J. Proulx Tech. July 1984

N.T.S.: 320/12 PLAN NO : 84-974-12

GARRISON CREEK
Garrison twp., Ontario.

Scale : 1" = 400'

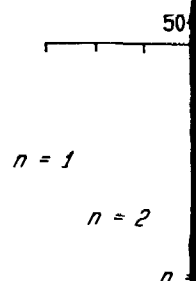
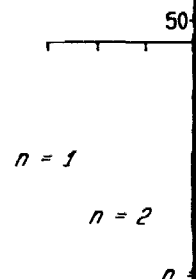
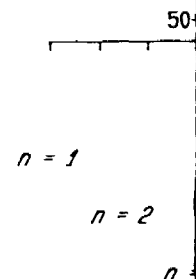
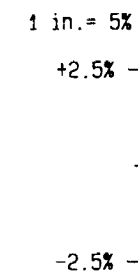


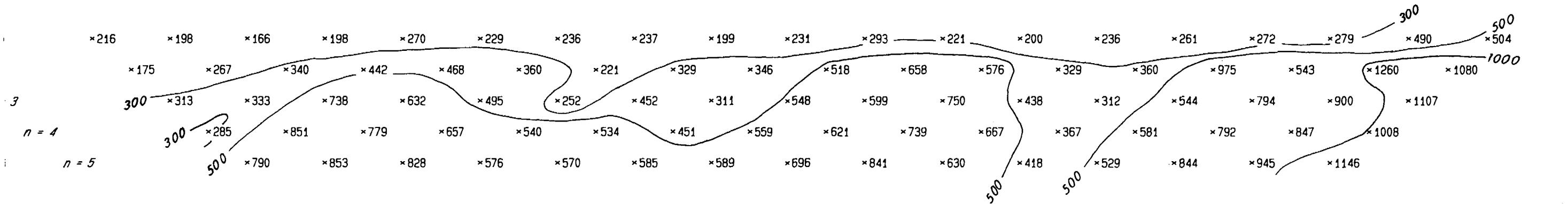
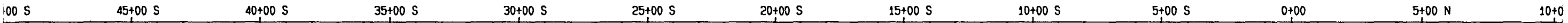
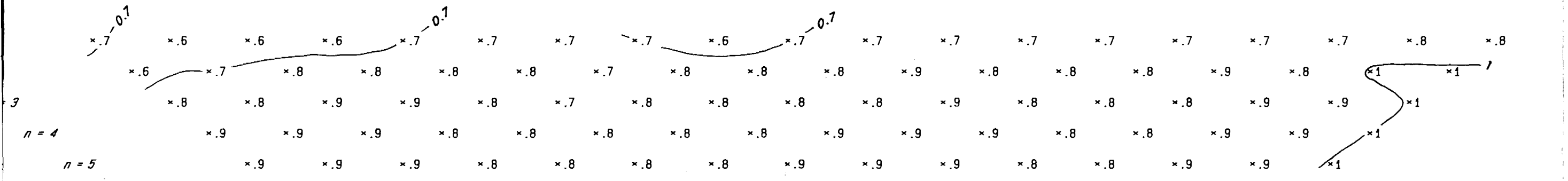
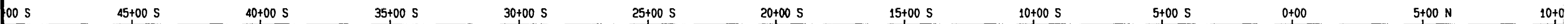
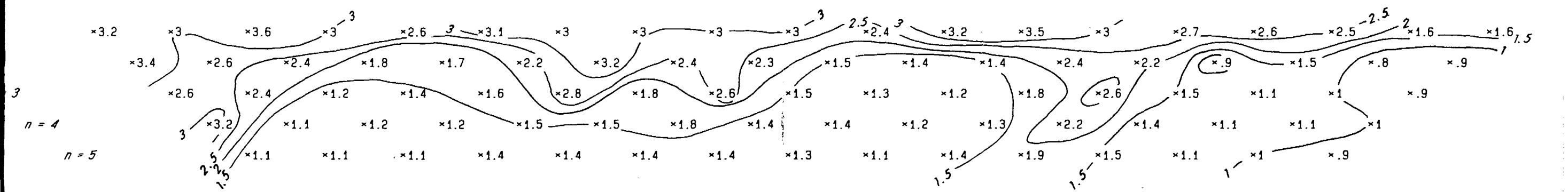
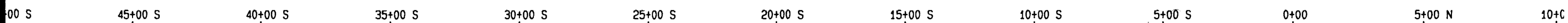
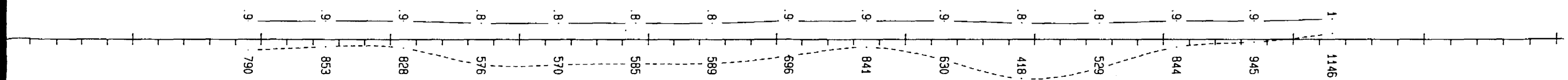
L-80+00 E
5th SEP.

L-80+00 E
METAL FACTOR
(Ef/Res. * 1000%)

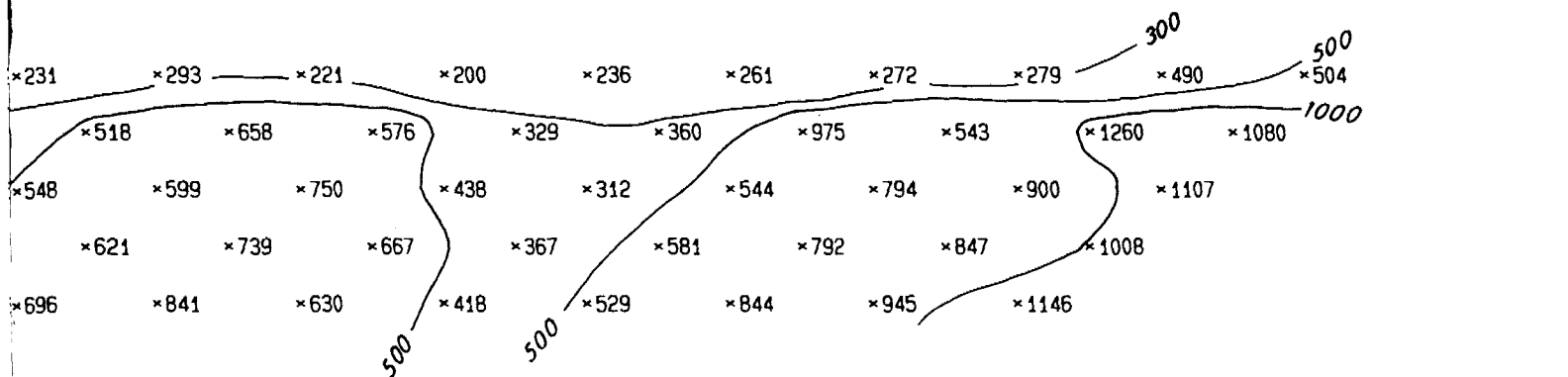
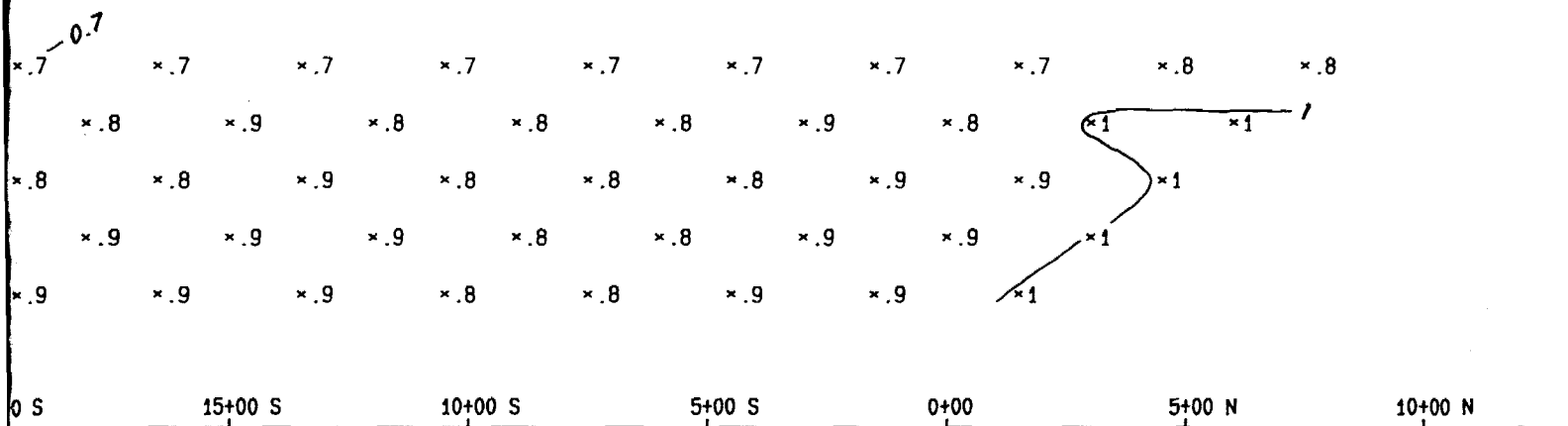
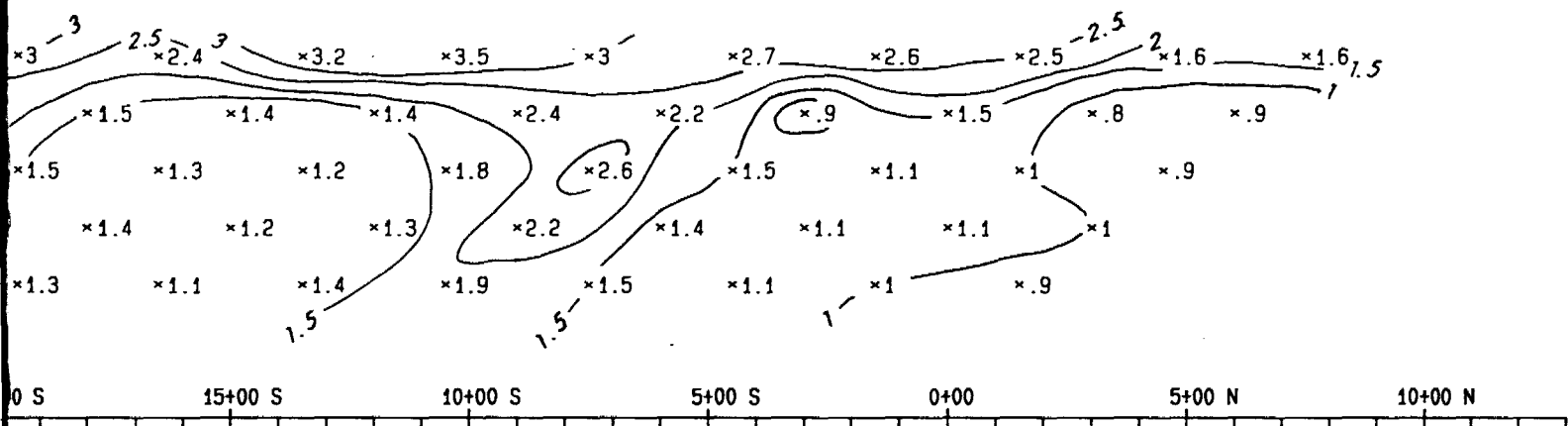
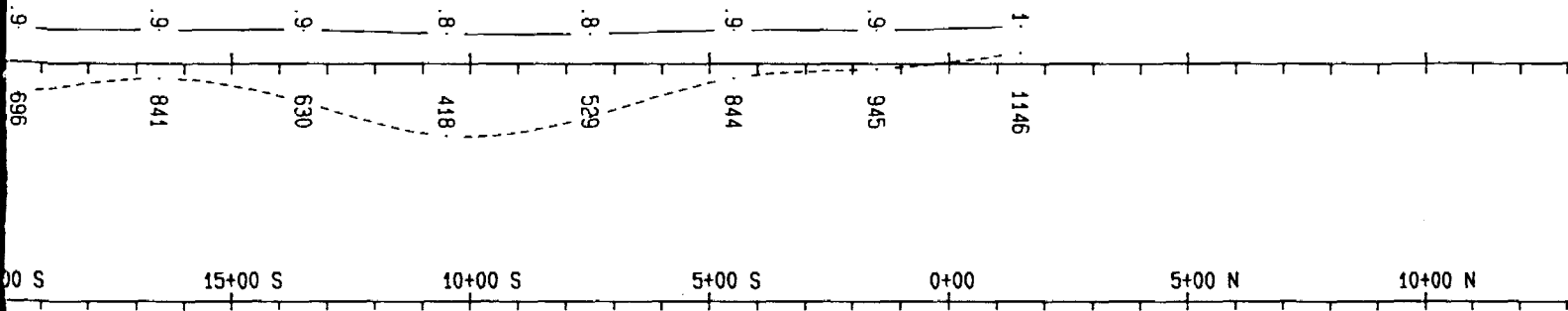
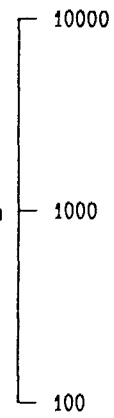
L-80+00 E
FREQUENCY EFFECT

L-80+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)





1 in. : 1 cycle



FALCONBRIDGE LIMITED

GARRISON TOWNSHIP

INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

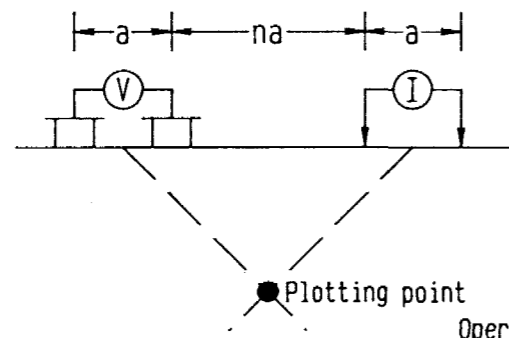
Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet

Separation between dipole : n = 1, 2, 3, 4, 5

CONFIGURATION OF ELECTRODES



Operators: G. Beier

63.4487

L-86+00 E

BY :	GÉOLA LTÉE	
EXECUTED BY :	G. Beier	May 1984
INTERPRETED BY :		
DRAWN BY :	J. Proulx Tech.	July 1984
N.T.S.:	320/12	PLAN NO : 84-974-13

GARRISON CREEK.
Garrison twp., Ontario.
Scale : 1" = 400'
0 200 400 600 800

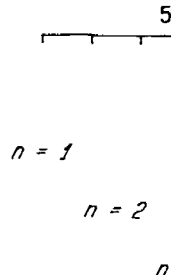
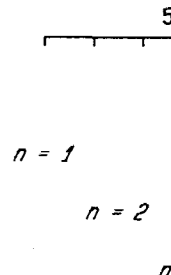
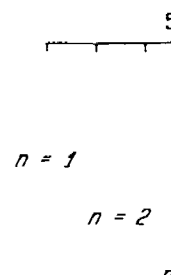
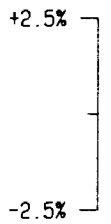
L-86+00 E
5th SEP.

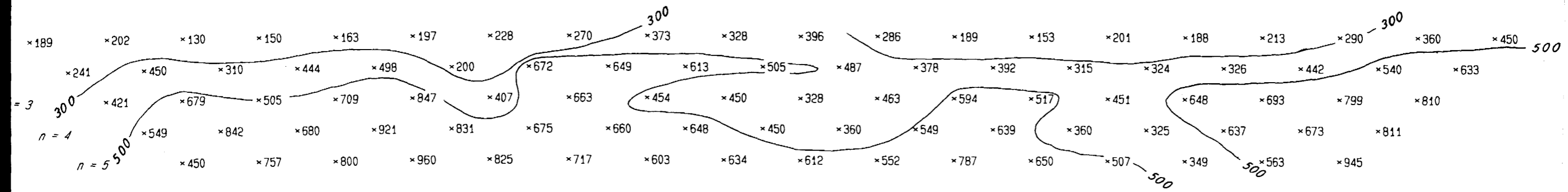
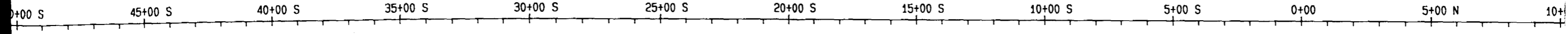
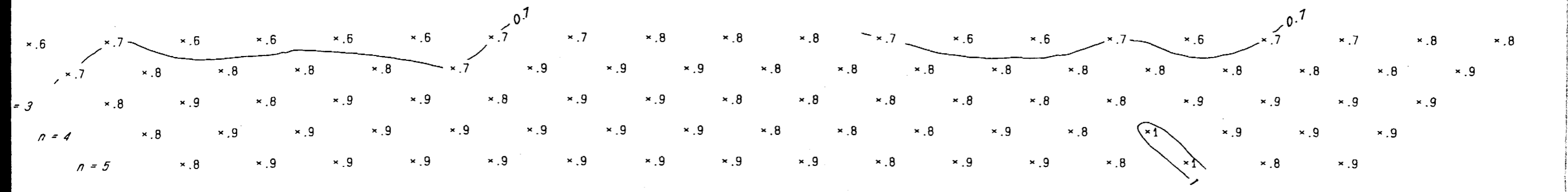
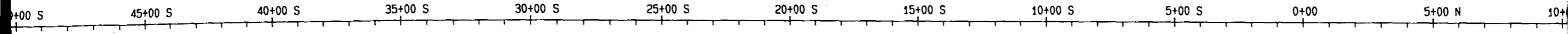
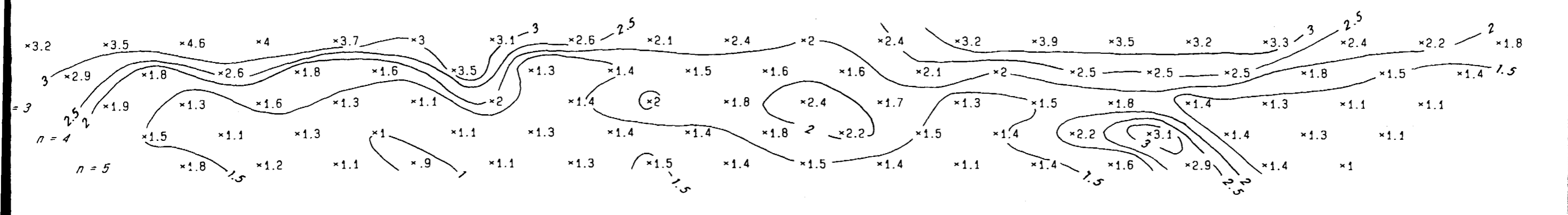
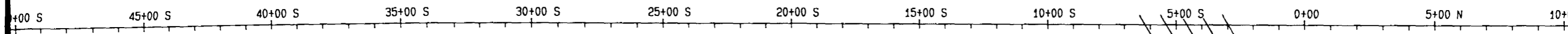
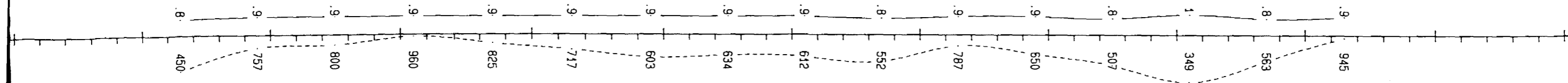
L-86+00 E
METAL FACTOR
(Ef/Res. * 1000%)

L-86+00 E
FREQUENCY EFFECT

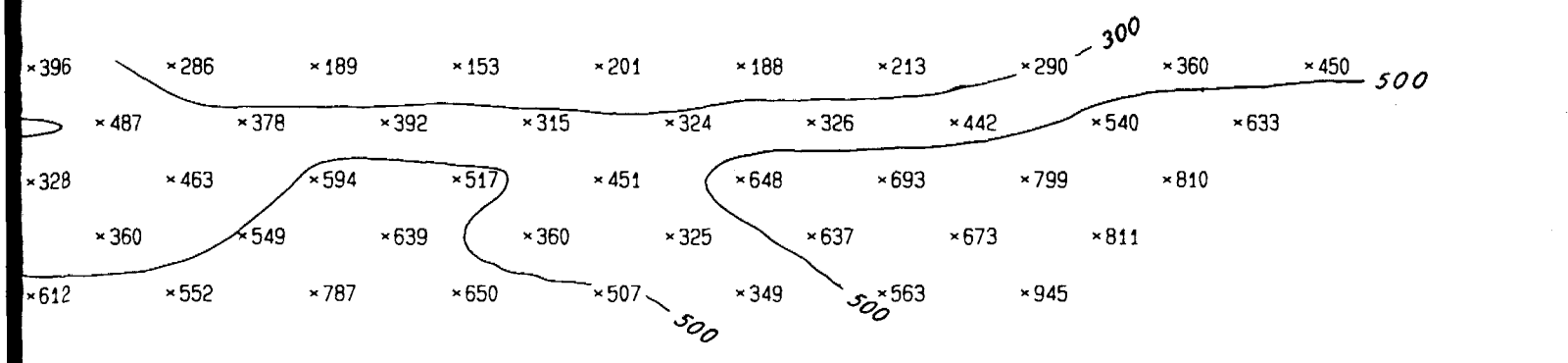
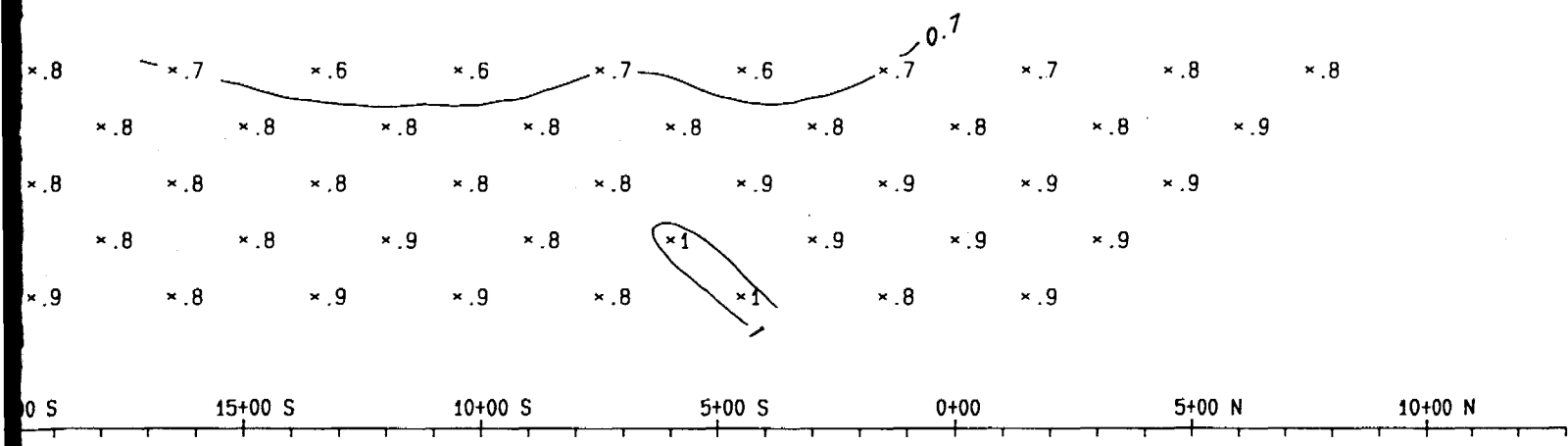
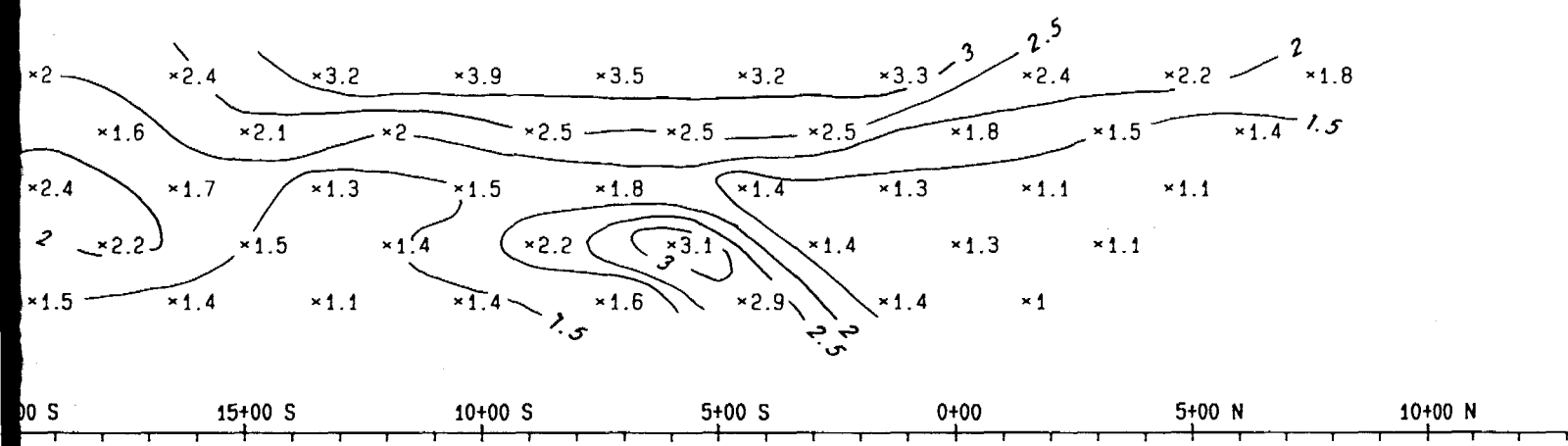
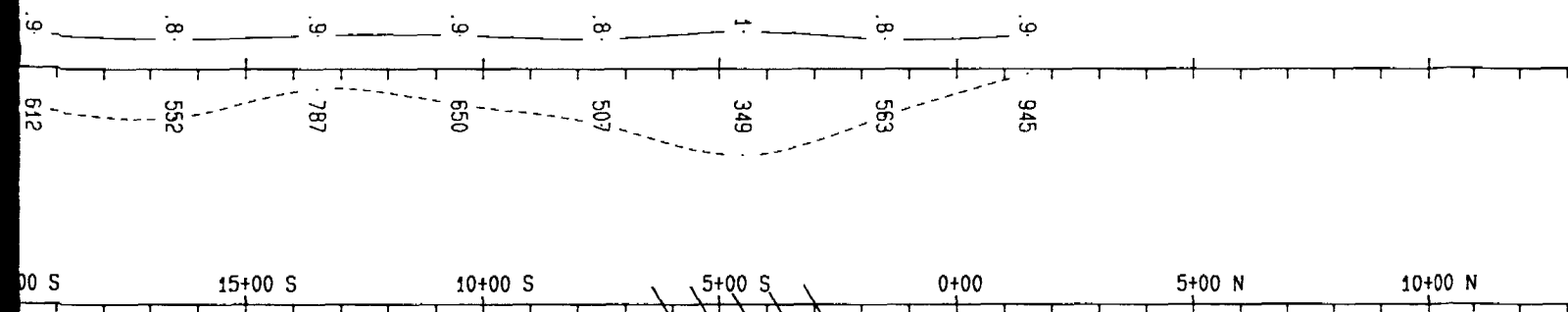
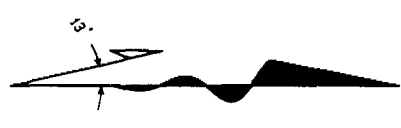
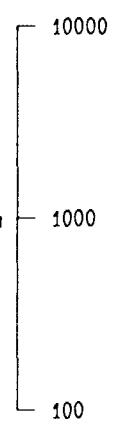
L-86+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)

1 in. = 5%





1 in. : 1 cycle



FALCONBRIDGE LIMITED

GARRISON TOWNSHIP

INDUCED POLARIZATION SURVEY

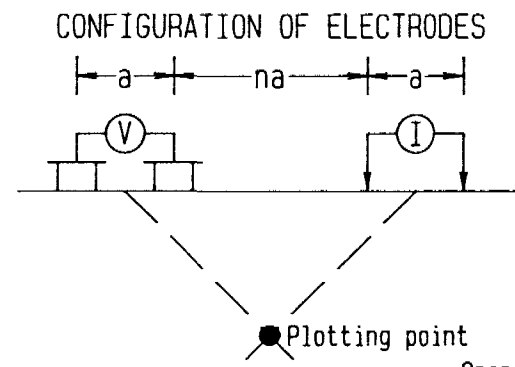
Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet

Separation between dipole : n = 1, 2, 3, 4, 5



Operators: G. Beier

63.4487

L-92+00 E

BY : GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

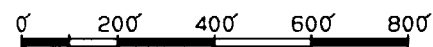
INTERPRETED BY :

DRAWN BY : J. Proulx Tech. July 1984

N.T.S.: 320/12 PLAN NO : 84-974-14

GARRISON CREEK
Garrison twp., Ontario.

Scale : 1" = 400'



1 in. = 5%

+2.5%

-2.5%

L-92+00 E

5th SEP.

L-92+00 E

METAL FACTOR

(Ef/Res. * 1000%)

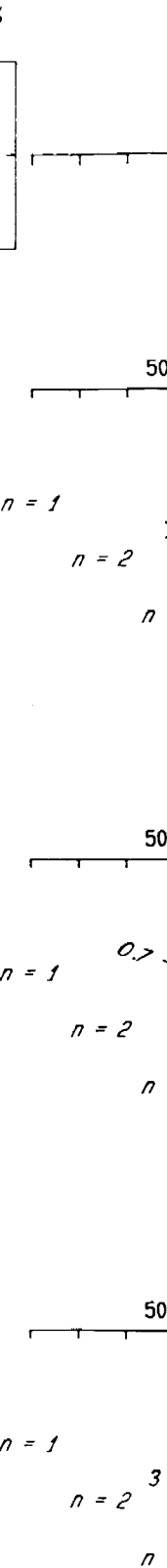
L-92+00 E

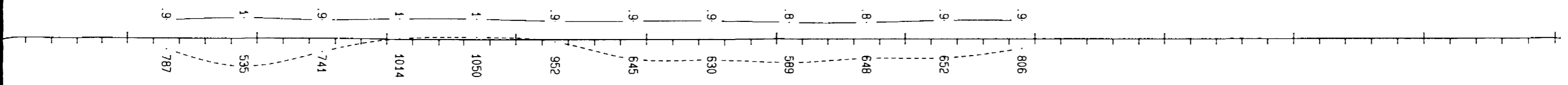
FREQUENCY EFFECT

L-92+00 E

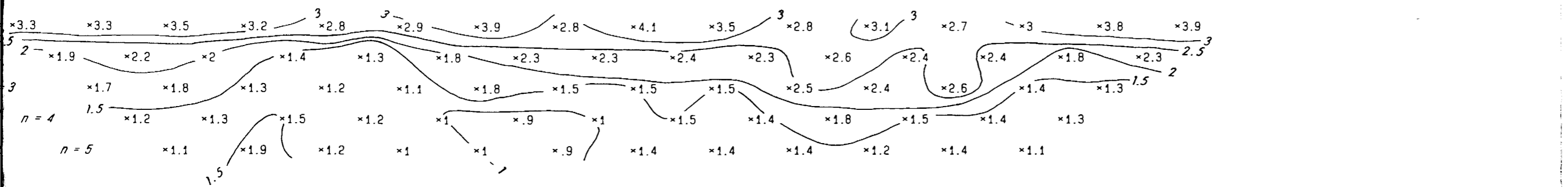
RESISTIVITY

(Pa/2π, Ohm-metres)

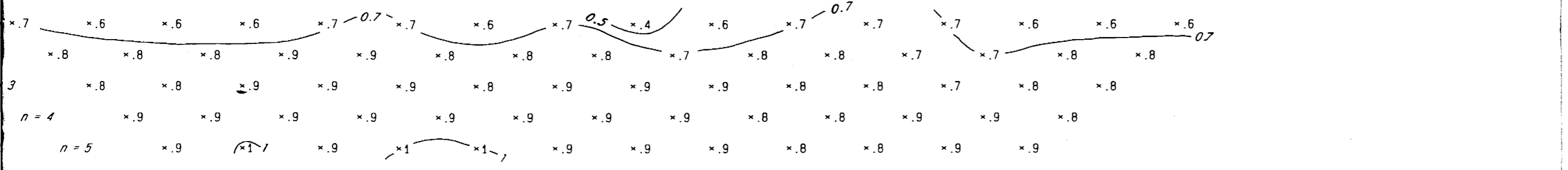




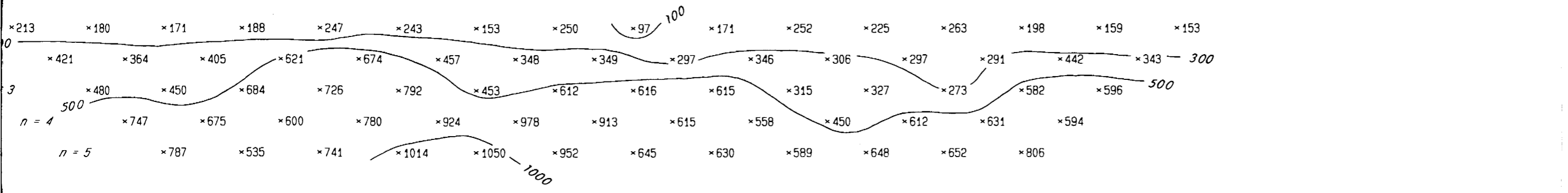
00 S 45+00 S 40+00 S 35+00 S 30+00 S 25+00 S 20+00 S 15+00 S 10+00 S 5+00 S 0+00 5+00 N 10+00



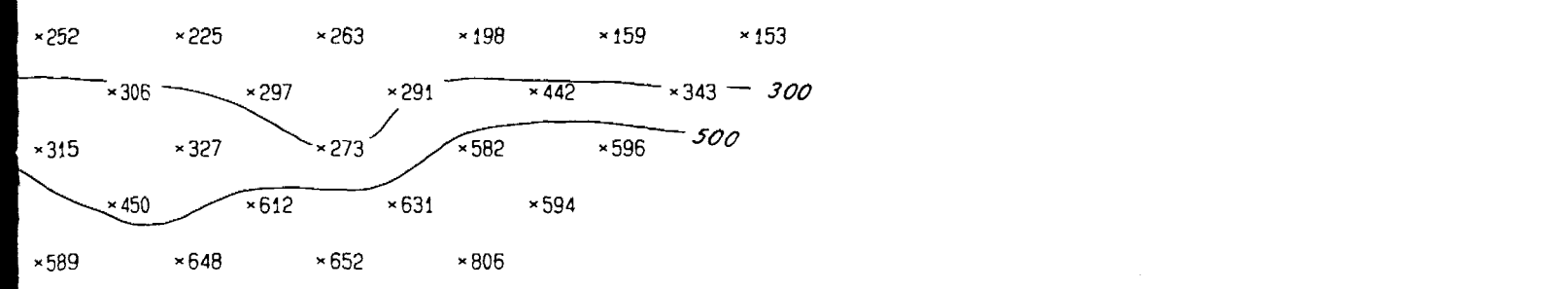
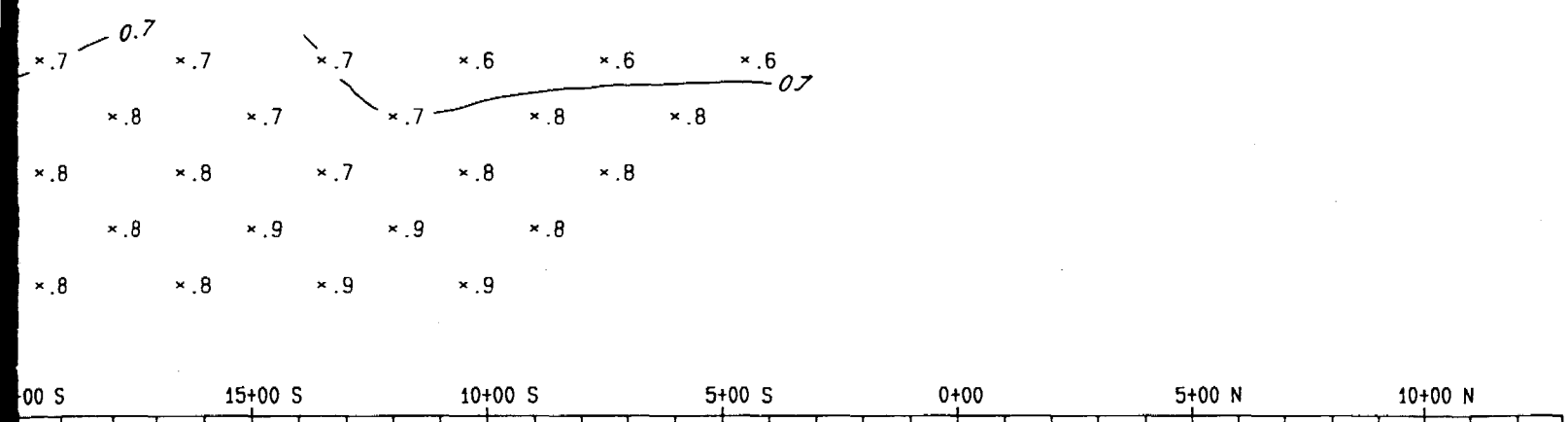
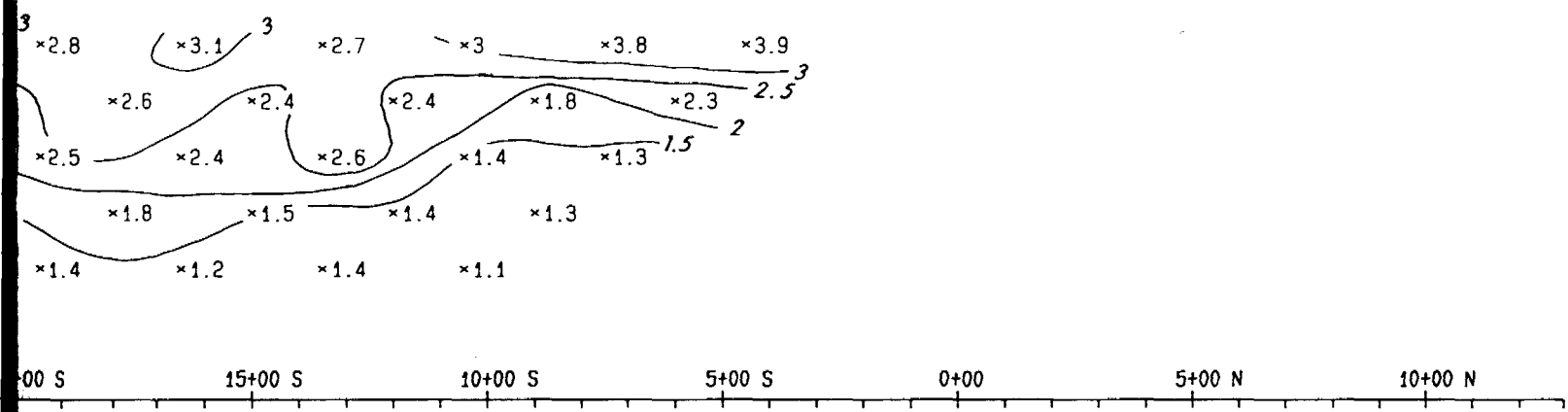
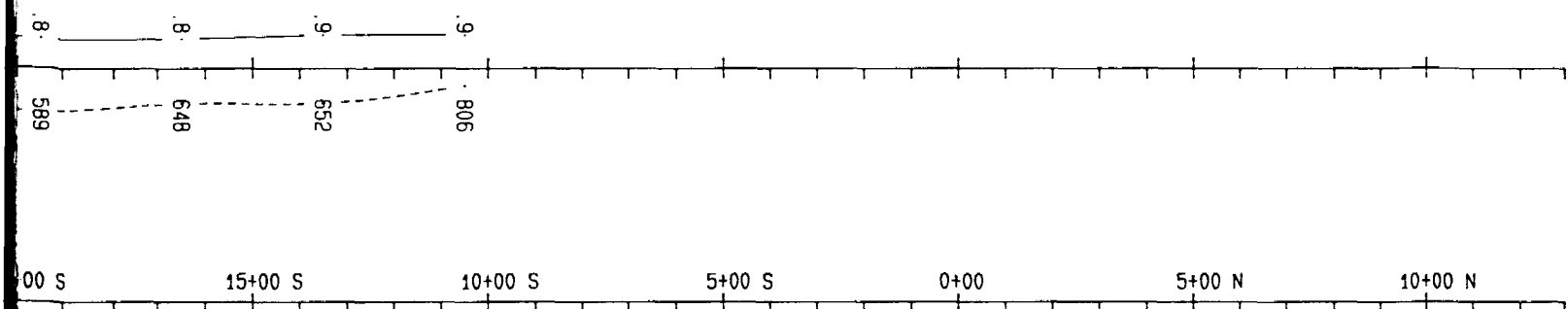
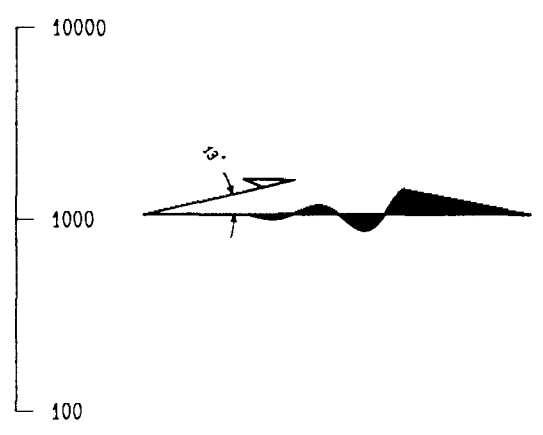
00 S 45+00 S 40+00 S 35+00 S 30+00 S 25+00 S 20+00 S 15+00 S 10+00 S 5+00 S 0+00 5+00 N 10+00



00 S 45+00 S 40+00 S 35+00 S 30+00 S 25+00 S 20+00 S 15+00 S 10+00 S 5+00 S 0+00 5+00 N 10+00



1 in. : 1 cycle



FALCONBRIDGE LIMITED

GARRISON TOWNSHIP

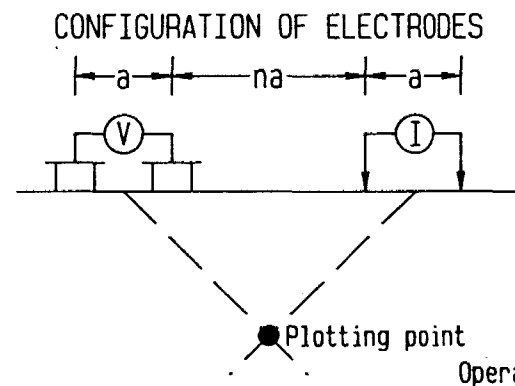
INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet
Separation between dipole : n = 1, 2, 3, 4, 5



Operators: G. Beier

63, 4487

L-98+00 E

BY :

GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

INTERPRETED BY :

DRAWN BY : J. Proulx Tech. July 1984

N.T.S.: 320/12 PLAN NO : 84-974-15

GARRISON CREEK
Garrison twp., Ontario.

Scale : 1" = 400'

0 200 400 600 800

1 in. = 5%

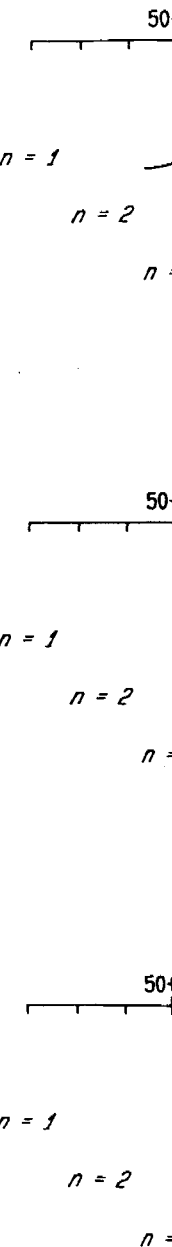
+2.5%
-2.5%

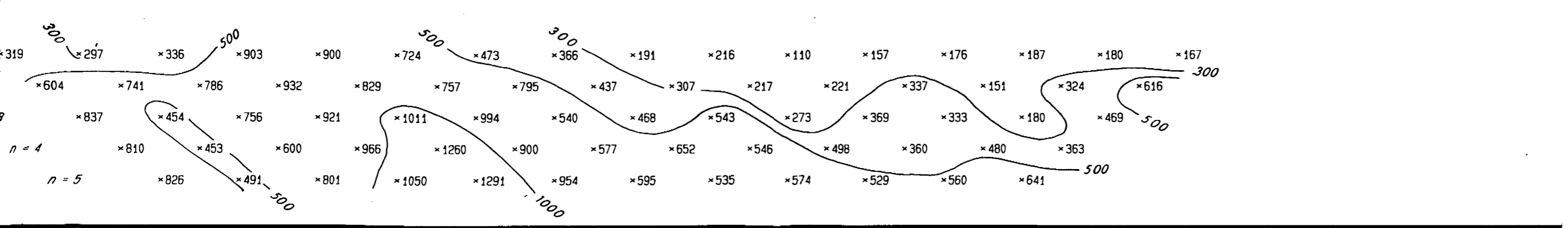
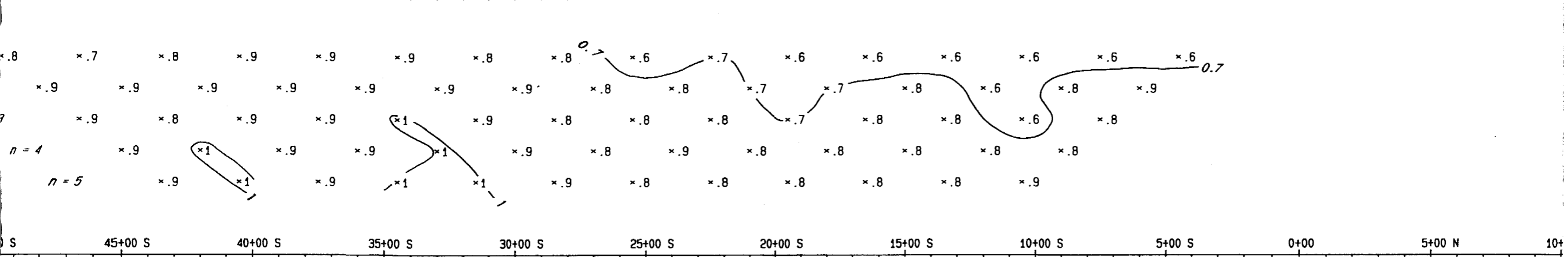
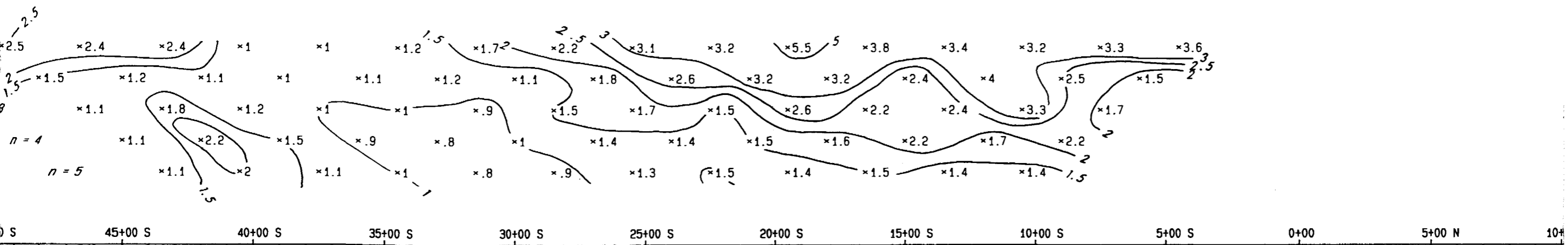
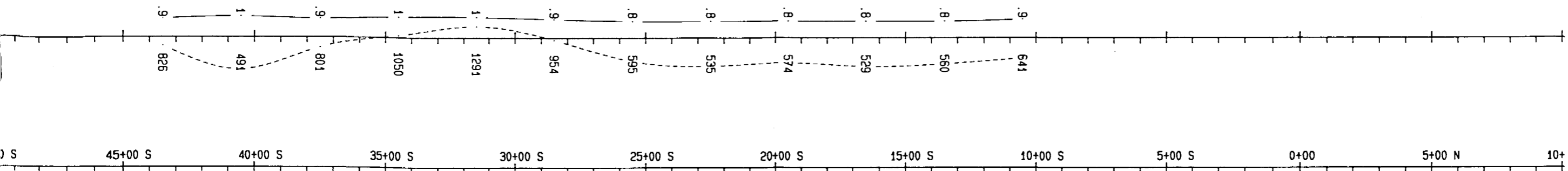
L-98+00 E
5th SEP.

L-98+00 E
METAL FACTOR
(Ef/Res. * 1000%)

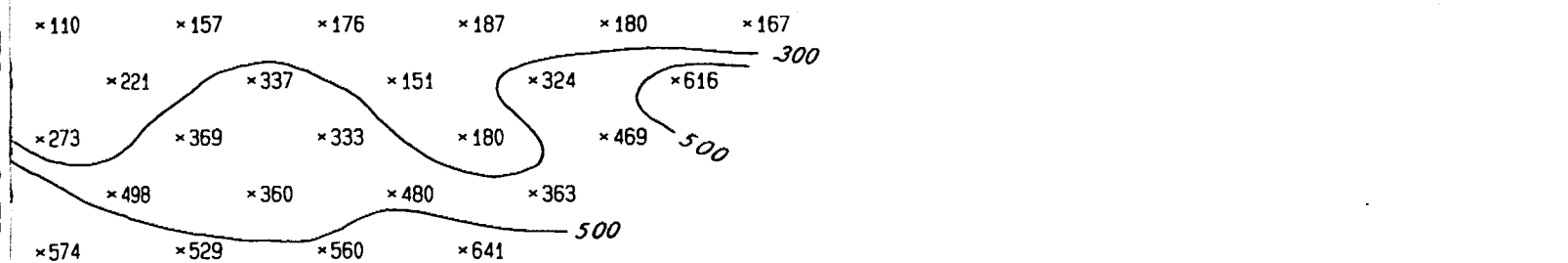
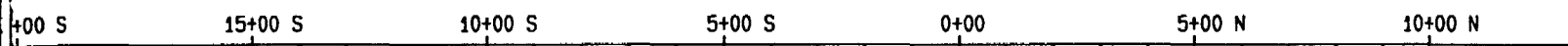
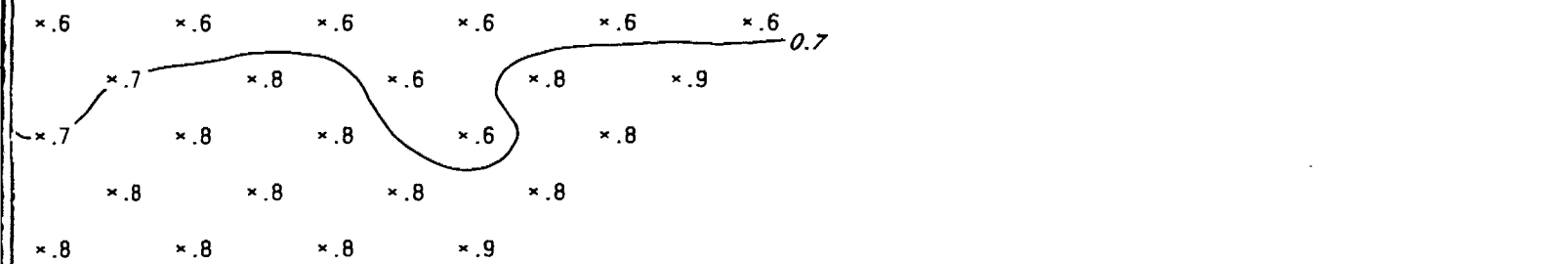
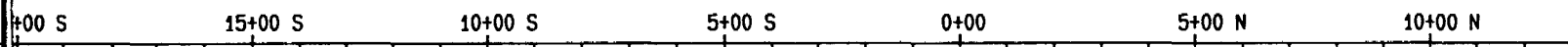
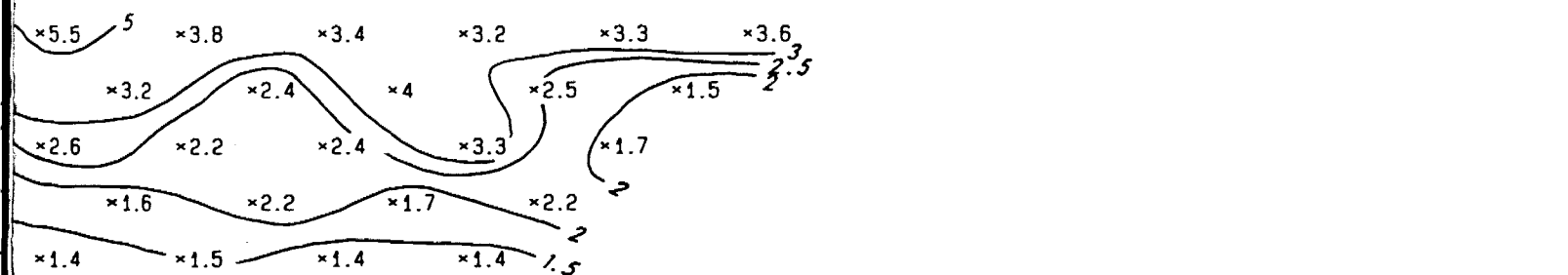
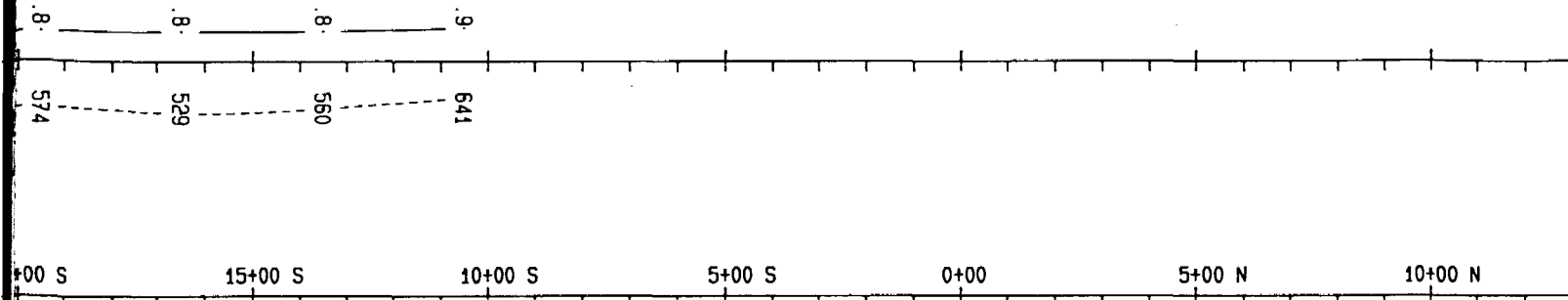
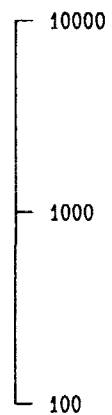
L-98+00 E
FREQUENCY EFFECT

L-98+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)





1 in. : 1 cycle



FALCONBRIDGE LIMITED

GARRISON TOWNSHIP

INDUCED POLARIZATION SURVEY

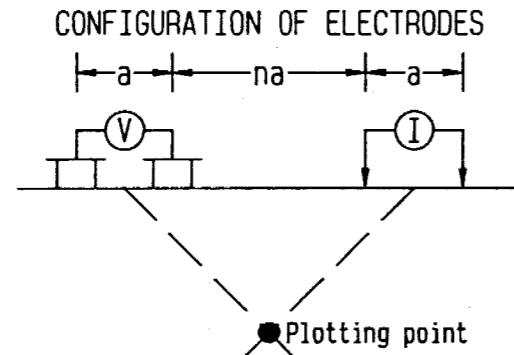
Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet

Separation between dipole : n = 1, 2, 3, 4, 5



Operators: G. Beier

63,4487

L-104+00 E

BY :	GÉOLA LTÉE	
EXECUTED BY :	G. Beier	May 1984
INTERPRETED BY :		
DRAWN BY :	J. Proulx Tech.	July 1984
N.T.S.:	320/12	PLAN NO : 84-974-16

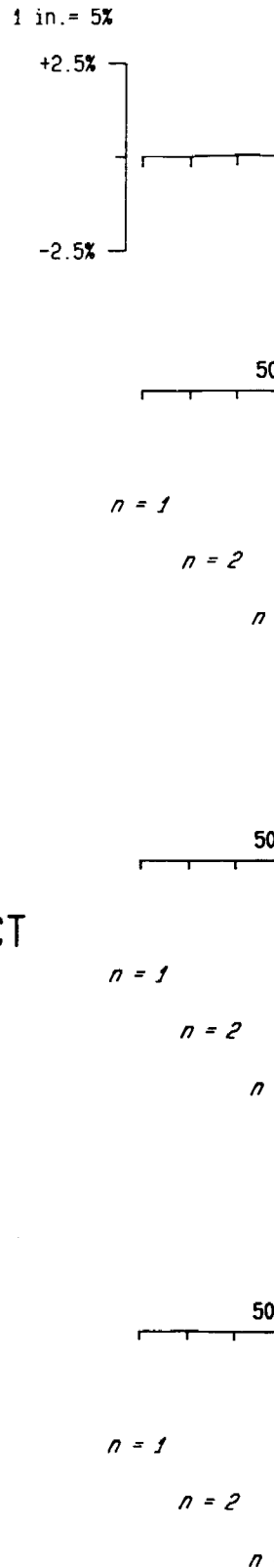
GARRISON CREEK
Garrison twp., Ontario.
Scale : 1" = 400'

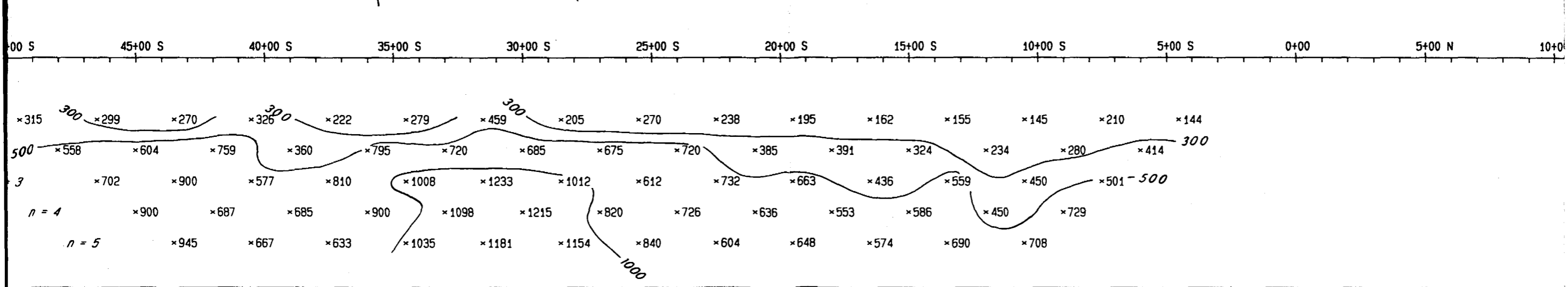
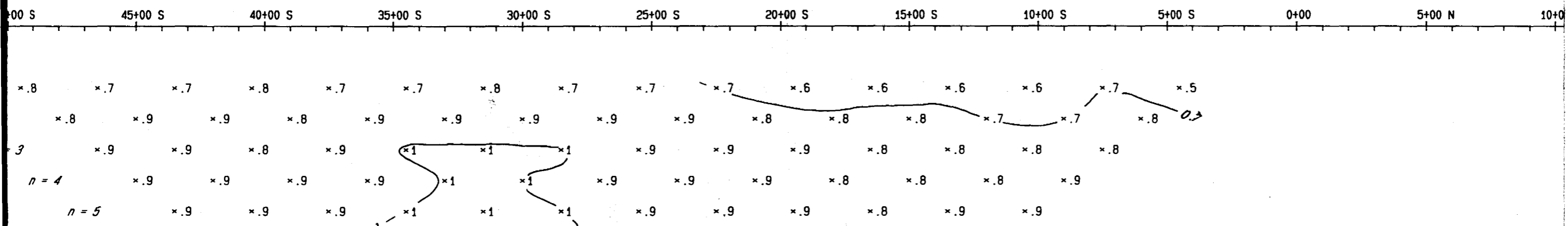
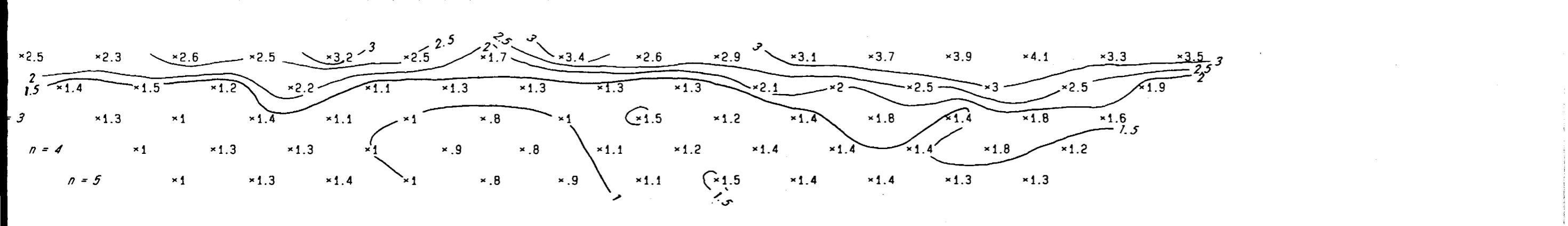
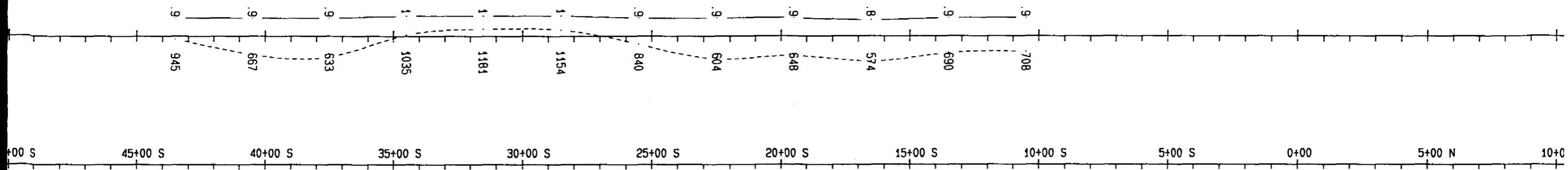
L-104+00 E
5th SEP.

L-104+00 E
METAL FACTOR
(Ef/Res. * 1000%)

L-104+00 E
FREQUENCY EFFECT

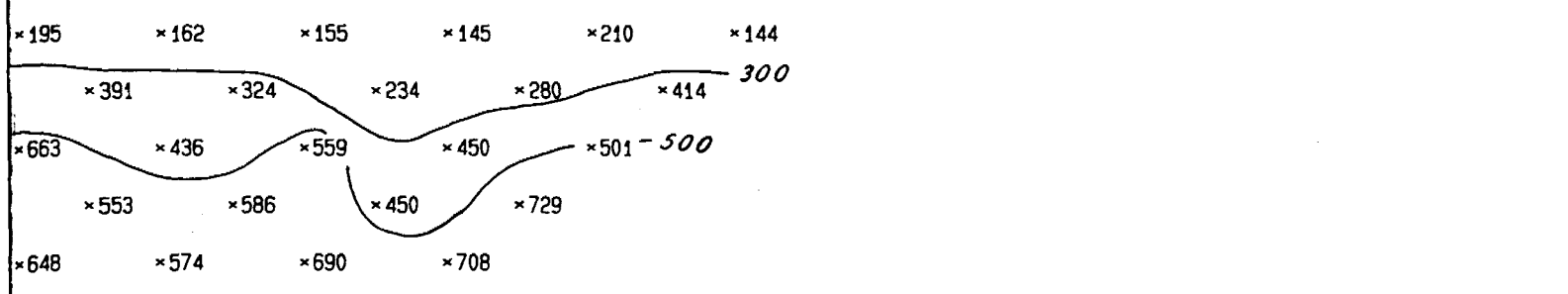
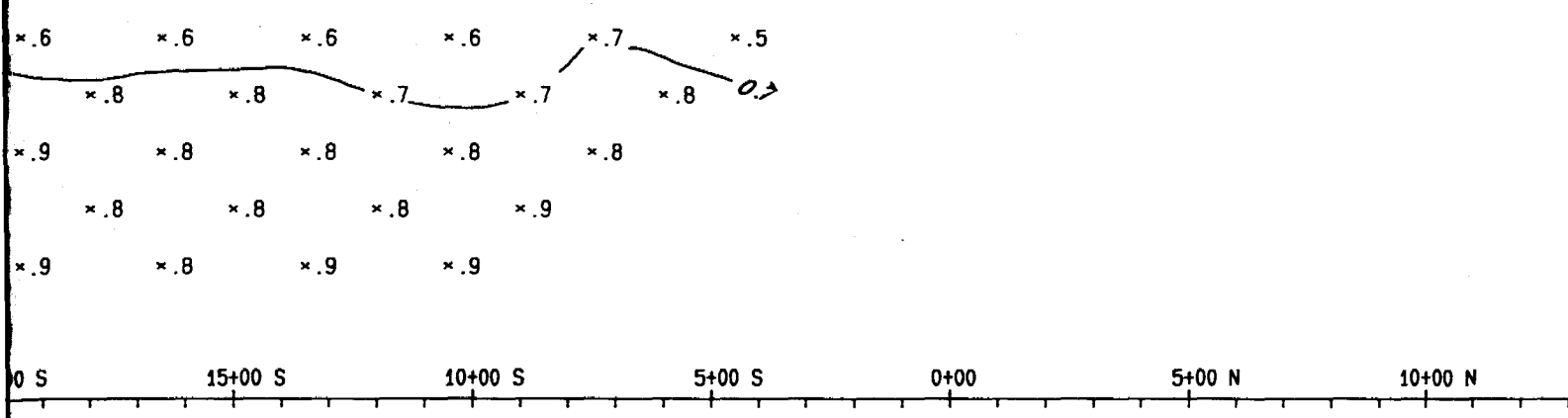
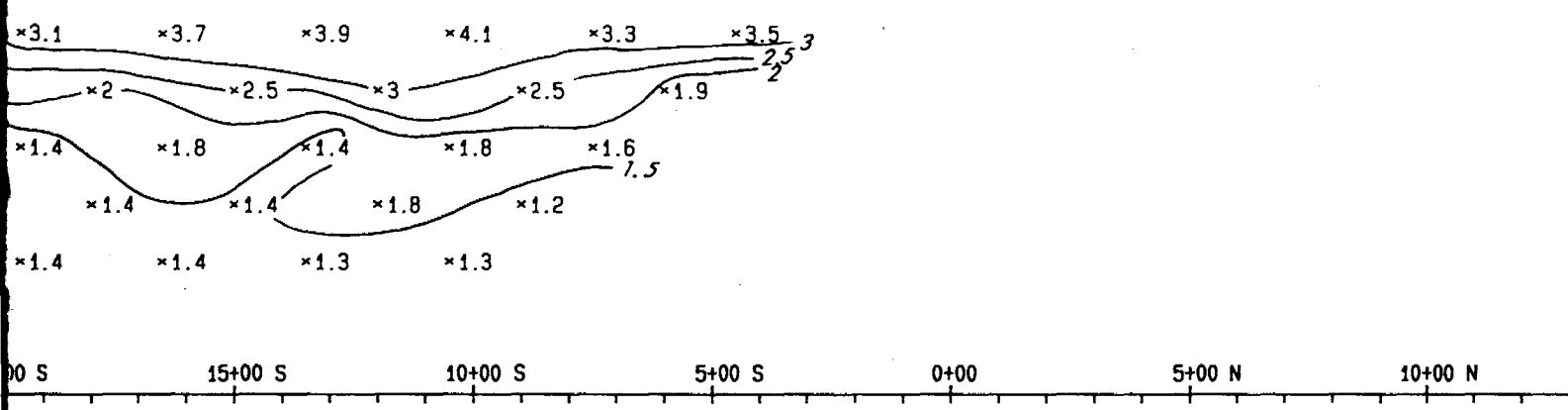
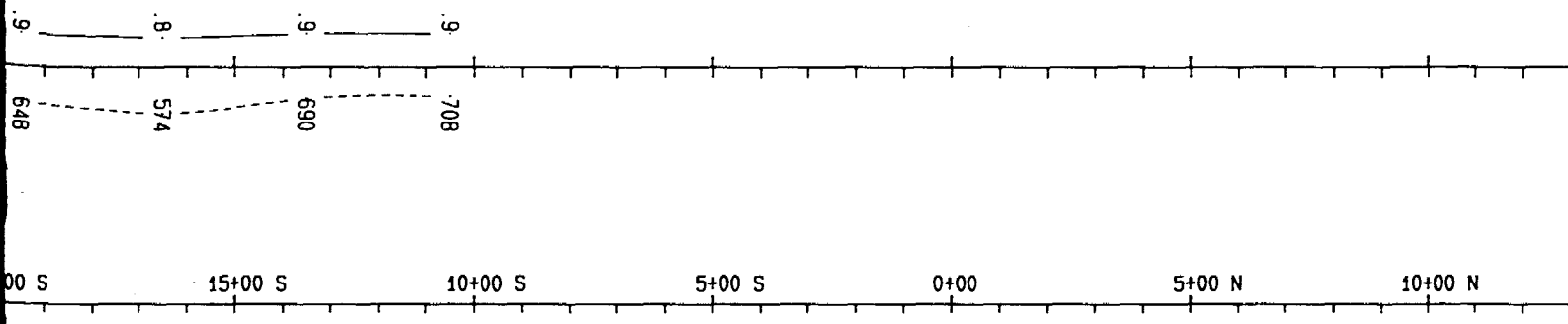
L-104+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)





1 in. : 1 cycle

10000
1000
100



FALCONBRIDGE LIMITED

GARRISON TOWNSHIP

INDUCED POLARIZATION SURVEY

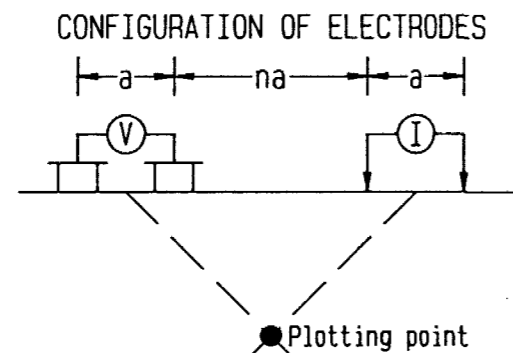
Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet

Separation between dipole : n = 1, 2, 3, 4, 5



Operators: G. Beier

63,4487

L-110+00 E

BY : GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

INTERPRETED BY :

DRAWN BY : J. Proulx Tech. July 1984

N.T.S.: 320/12 PLAN NO : 84-974-17

GARRISON CREEK
Garrison twp., Ontario.
Scale : 1" = 400'
0 200 400 600 800

L-110+00 E
5th SEP.

L-110+00 E
METAL FACTOR
(Ef/Res. * 1000%)

L-110+00 E
FREQUENCY EFFECT

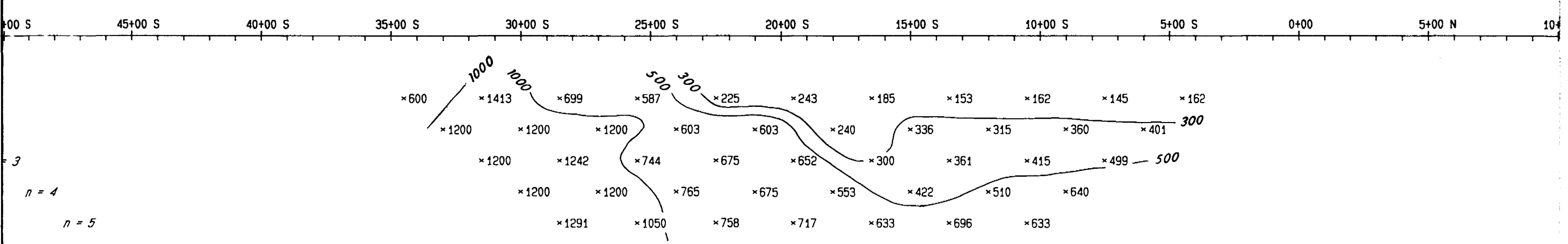
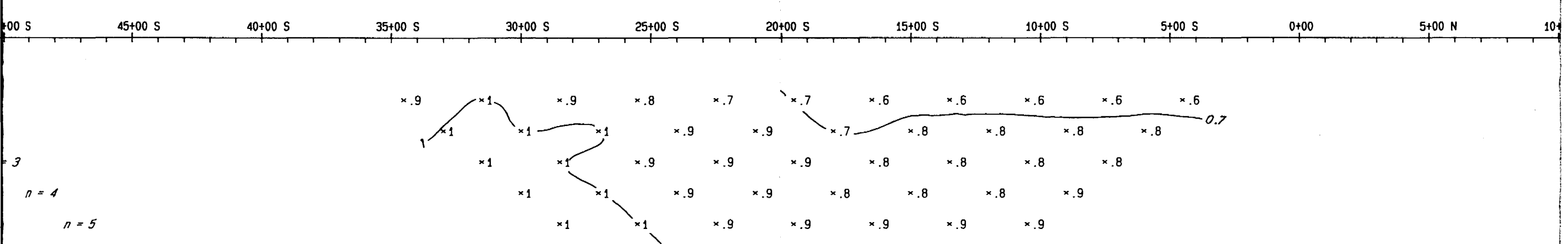
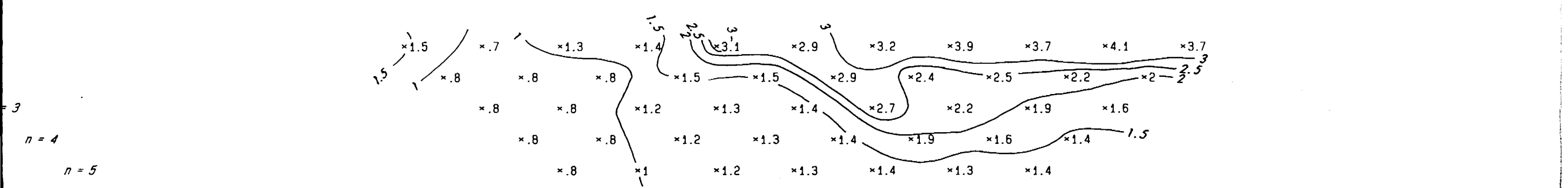
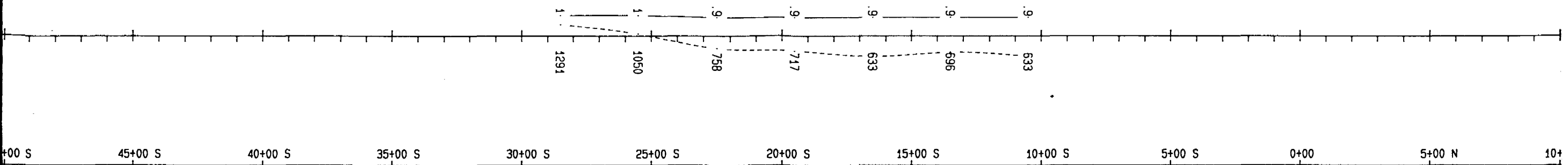
L-110+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)

1 in. = 5%
+2.5%
-2.5%

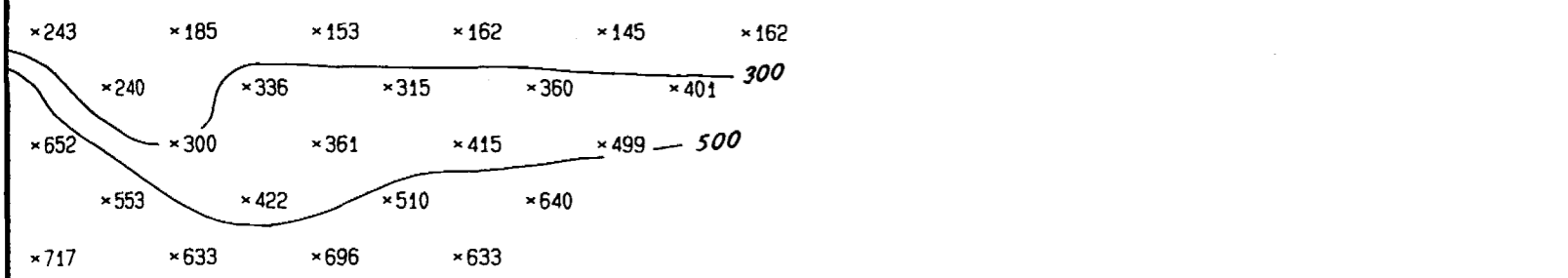
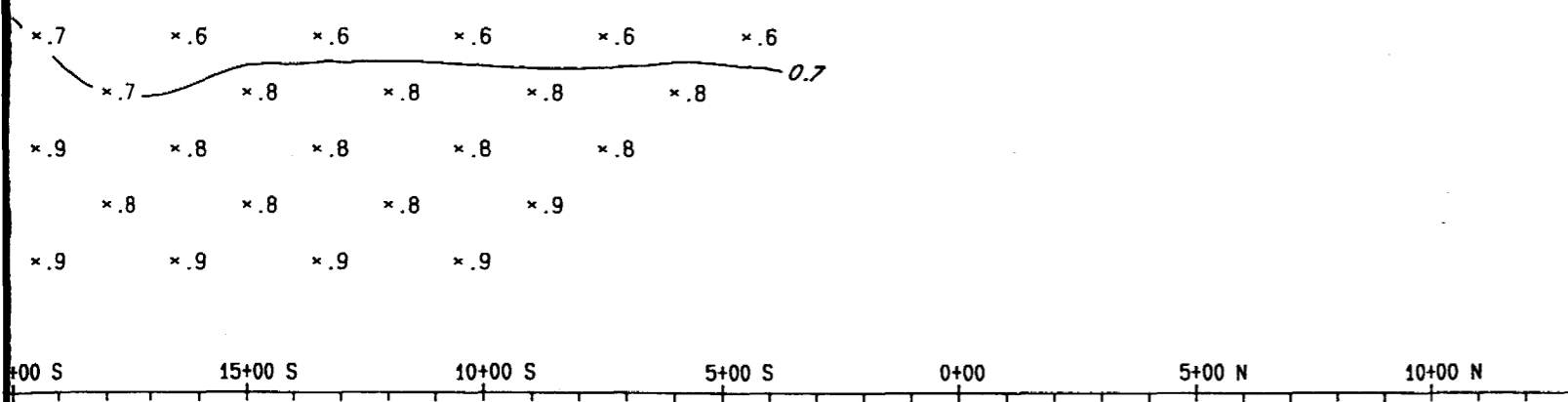
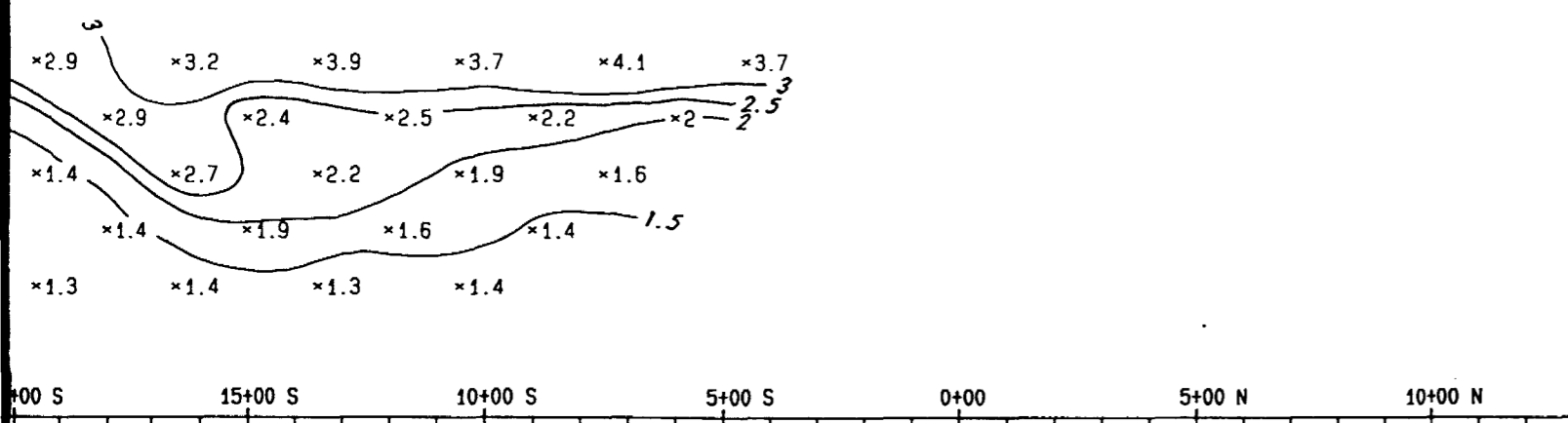
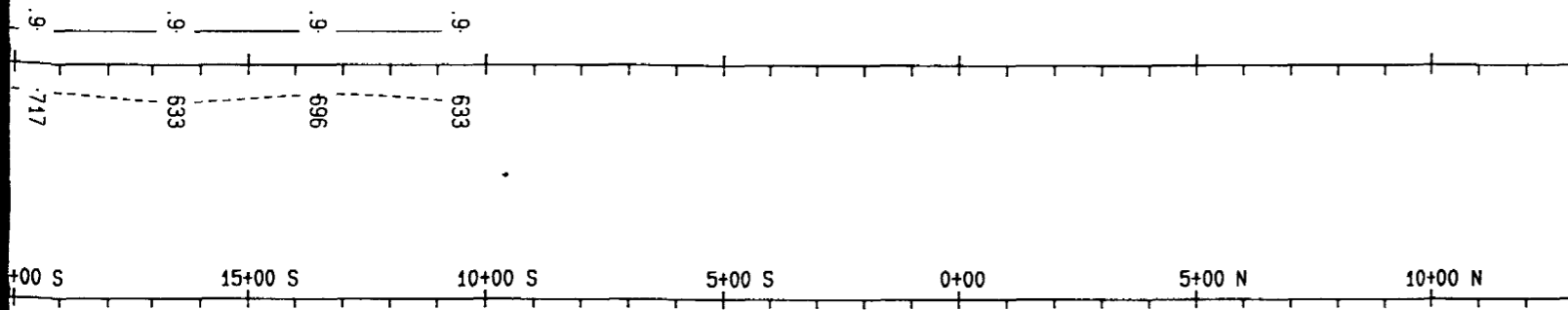
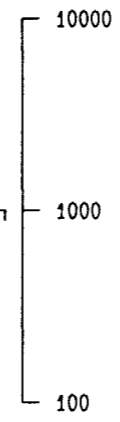
50
n = 1
n = 2
n

50
n = 1
n = 2
n

50
n = 1
n = 2
n



1 in. : 1 cycle



FALCONBRIDGE LIMITED

GARRISON TOWNSHIP

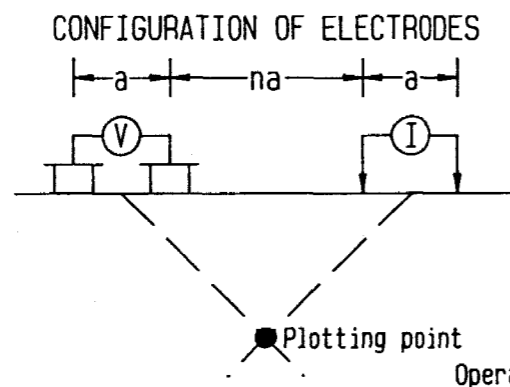
INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet
Separation between dipole : n = 1, 2, 3, 4, 5



Operators: G. Beier

63.4487

L-116+00 E

BY : GÉOLA LTÉE

EXECUTED BY : G. Beier May 1984

INTERPRETED BY :

DRAWN BY : J. Proulx Tech. July 1984

N.T.S.: 320/12 PLAN NO : 84-974-18

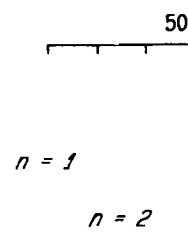
GARRISON CREEK
Garrison tmp., Ontario.
Scale : 1" = 400'
0 200' 400' 600' 800'

1 in. = 5%

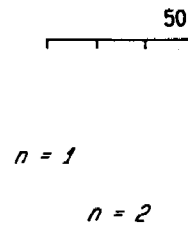


L-116+00 E
5th SEP.

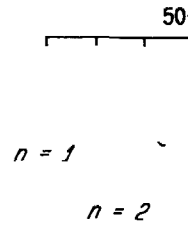
L-116+00 E
METAL FACTOR
(Ef/Res. * 1000%)

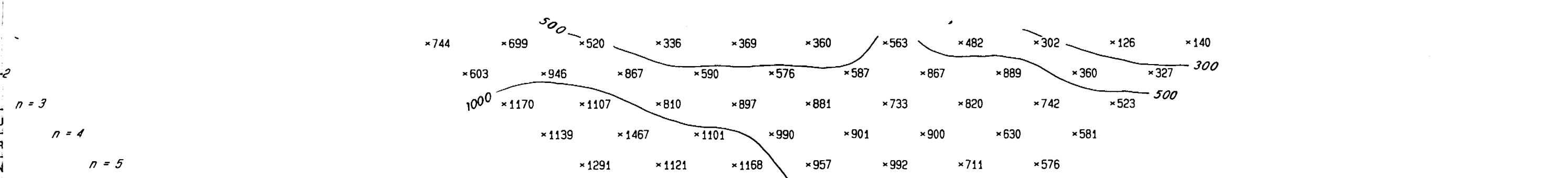
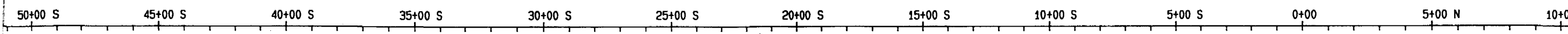
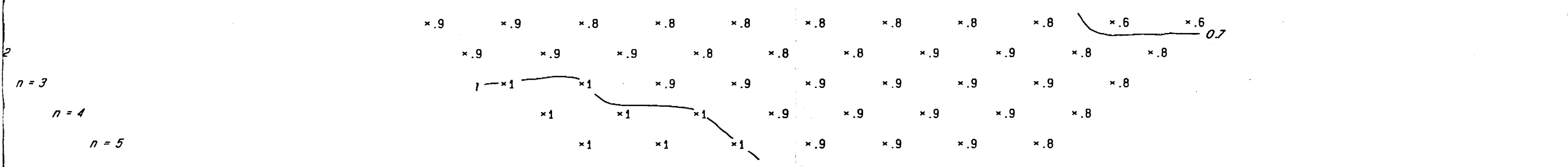
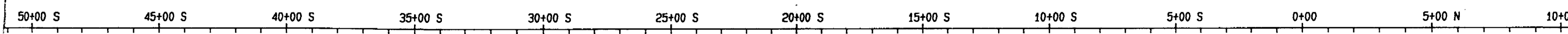
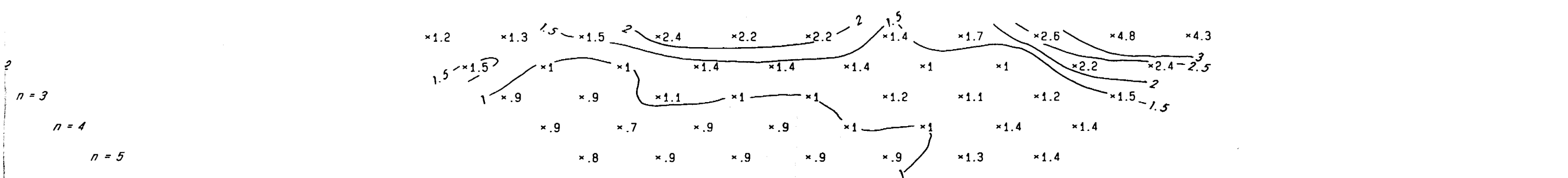
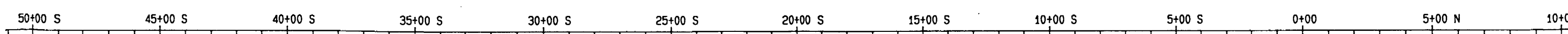
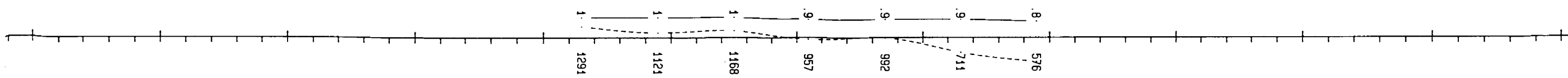


L-116+00 E
FREQUENCY EFFECT



L-116+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)

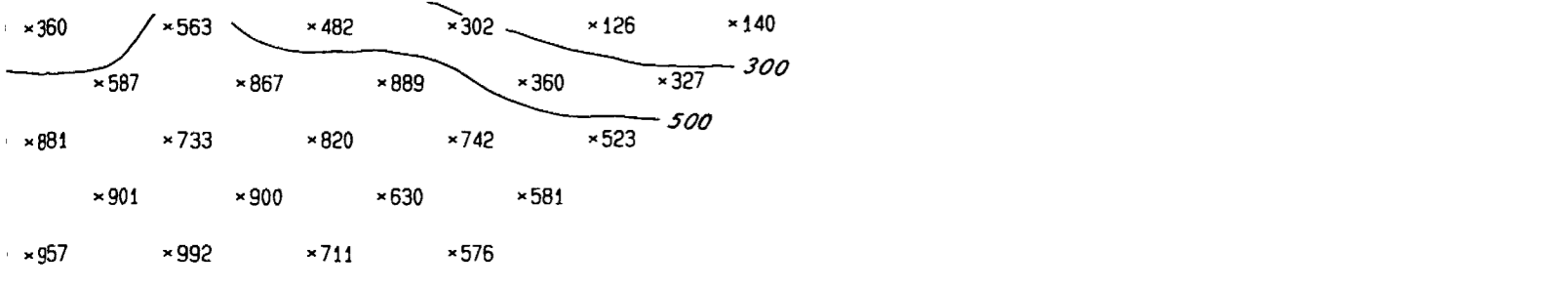
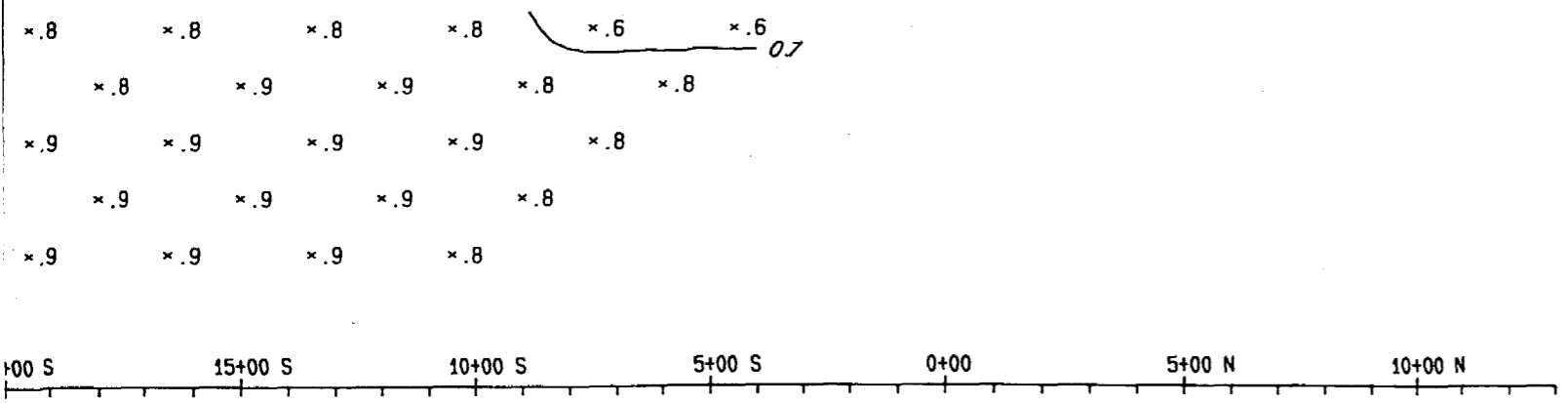
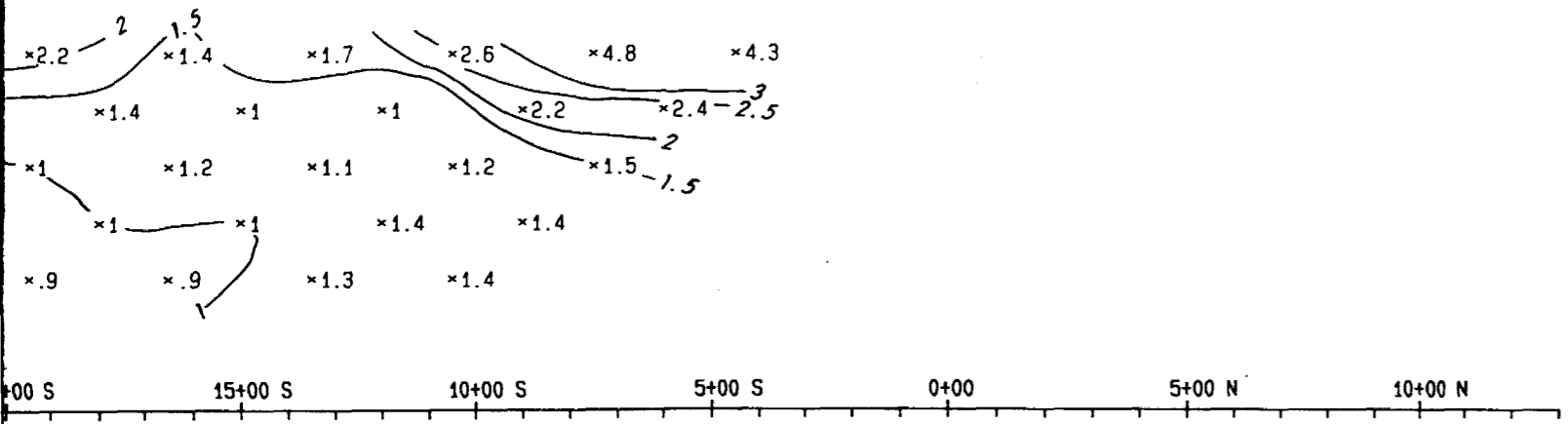
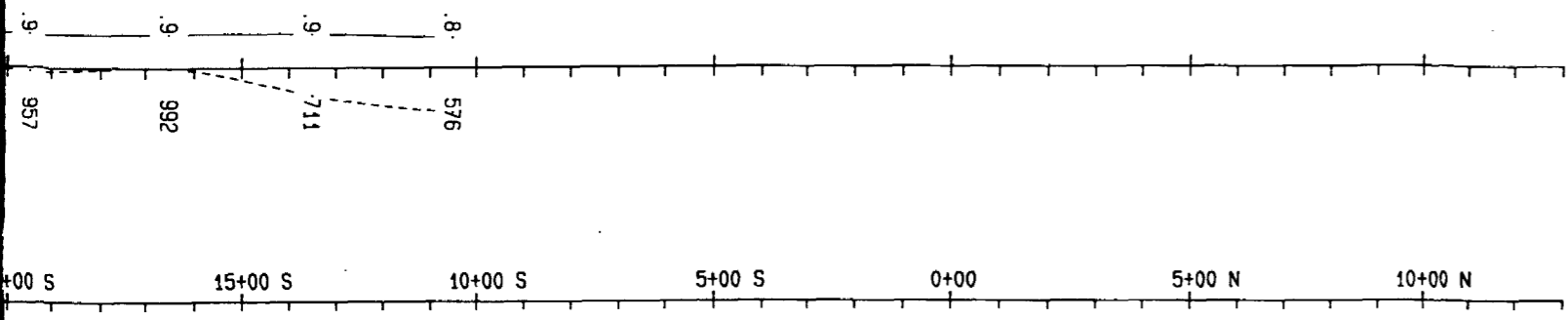




BY :
 EXECU
 INTER
 DRAWN
 N.T.

1 in. : 1 cycle

10000
1000
100



FALCONBRIDGE LIMITED

GUIBORD TOWNSHIP

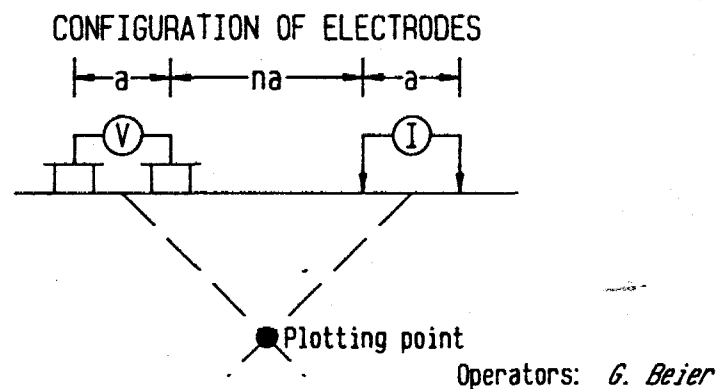
INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet
Separation between dipole : n = 1, 2, 3, 4, 5



L-10+00 E

634487

BY :	GÉOLA LTÉE	
EXECUTED BY :	G. Beier	July 1984
INTERPRETED BY :		
DRAWN BY :	J. Proulx, Tech.	August 1984
N.T.S.:	42A/B	PLAN NO : 84-976-01

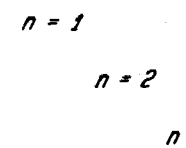
PN-693
Guibord tmp., Ontario
Scale : 1" = 400'

1 in. = 5%

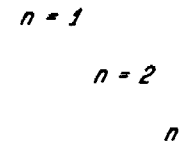


L-10+00 E
5th SEP.

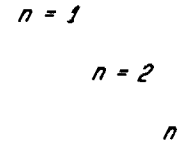
L-10+00 E
METAL FACTOR
(Ef/Res. * 1000%)



L-10+00 E
FREQUENCY EFFECT

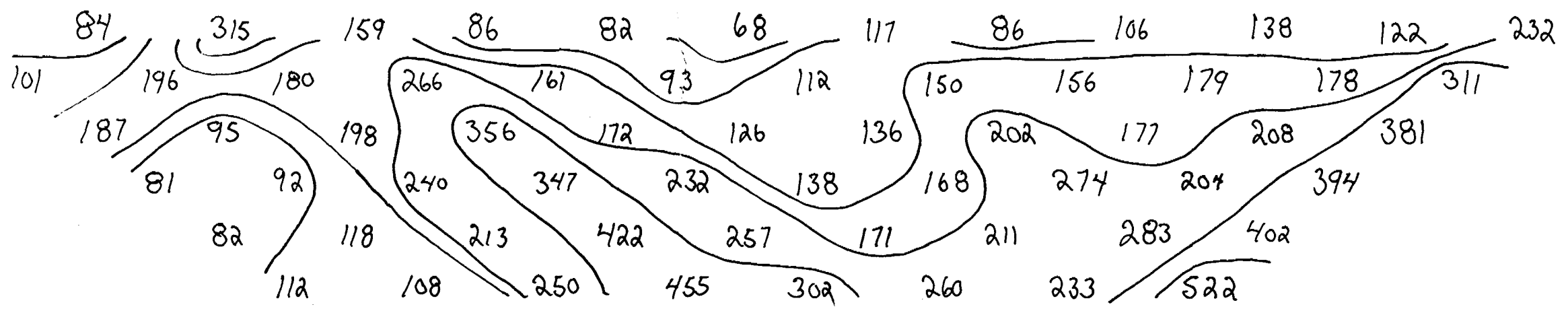


L-10+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)

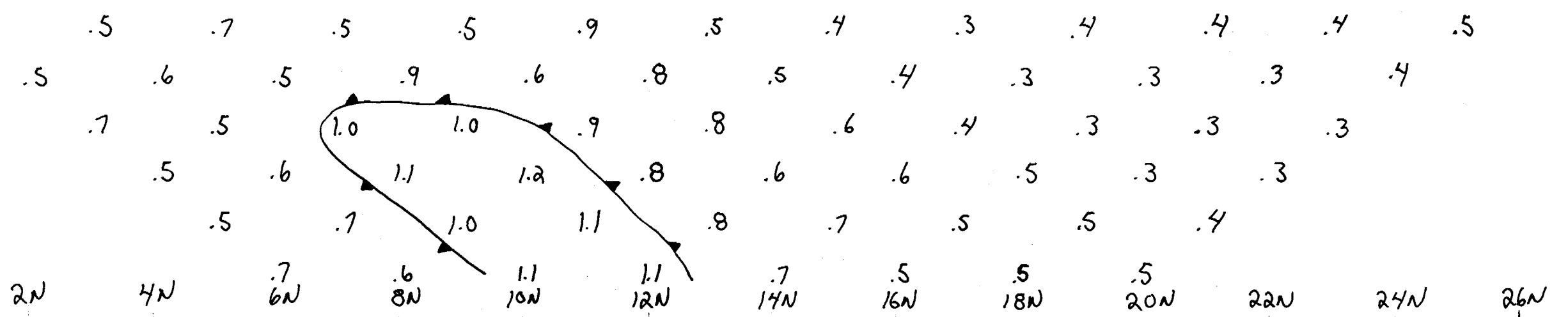


25 0 2N 4N 6N 8N 10N 12N 14N 16N 18N 20N 22N 24N 26N

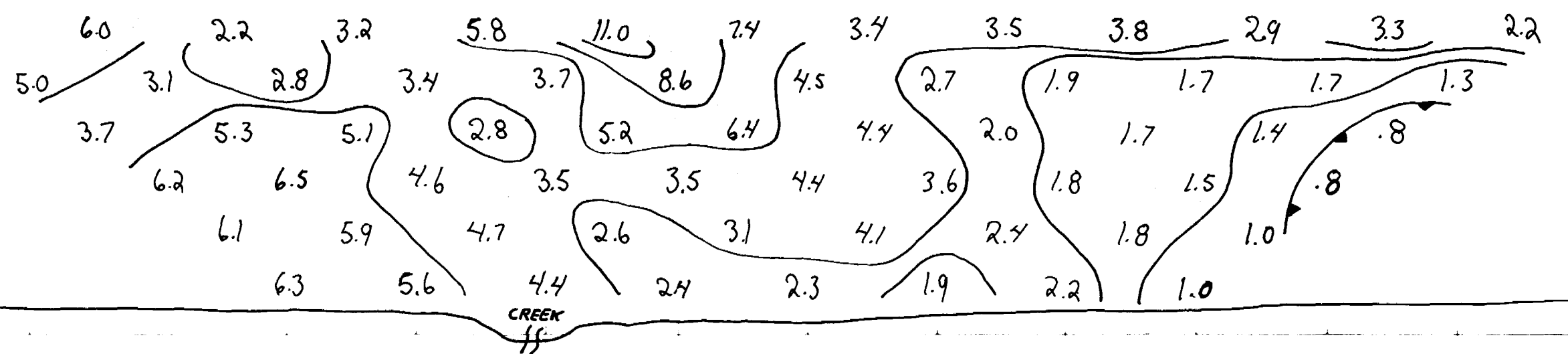
RESISTIVITY (APP) IN

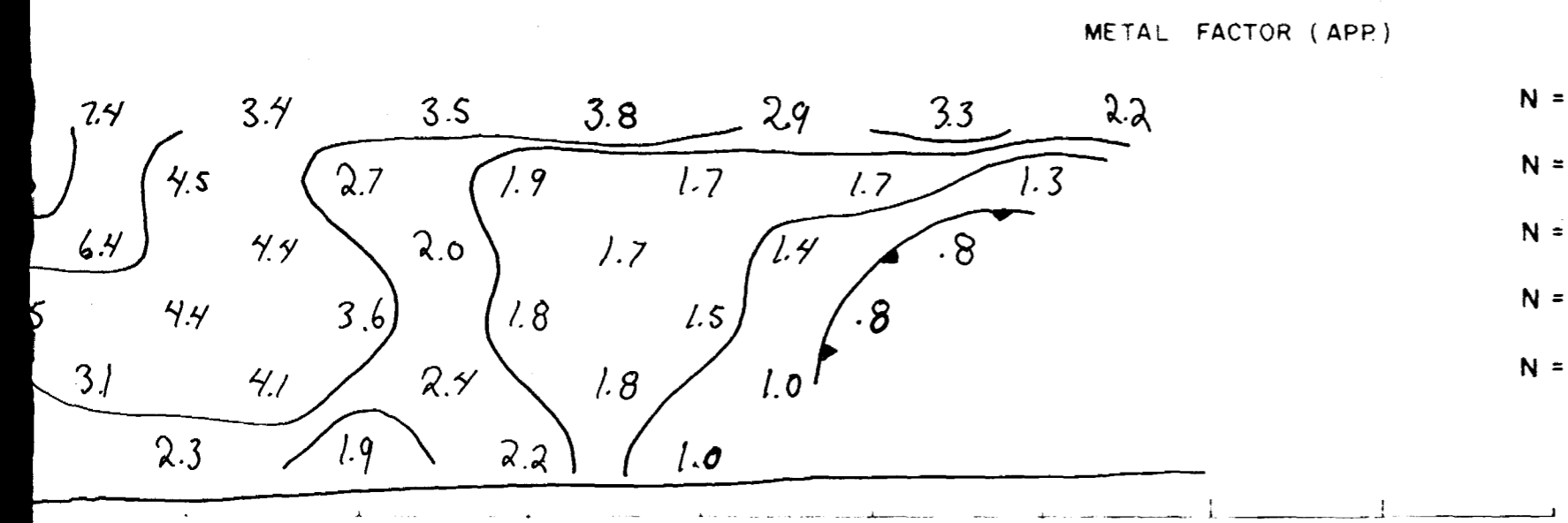
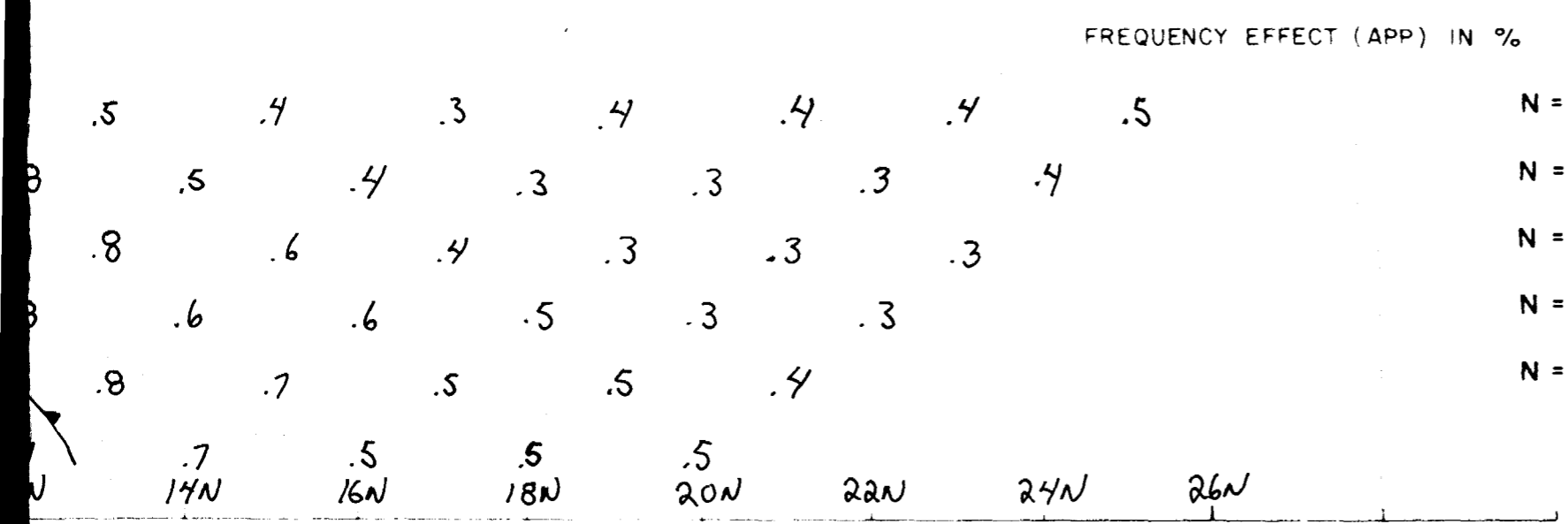
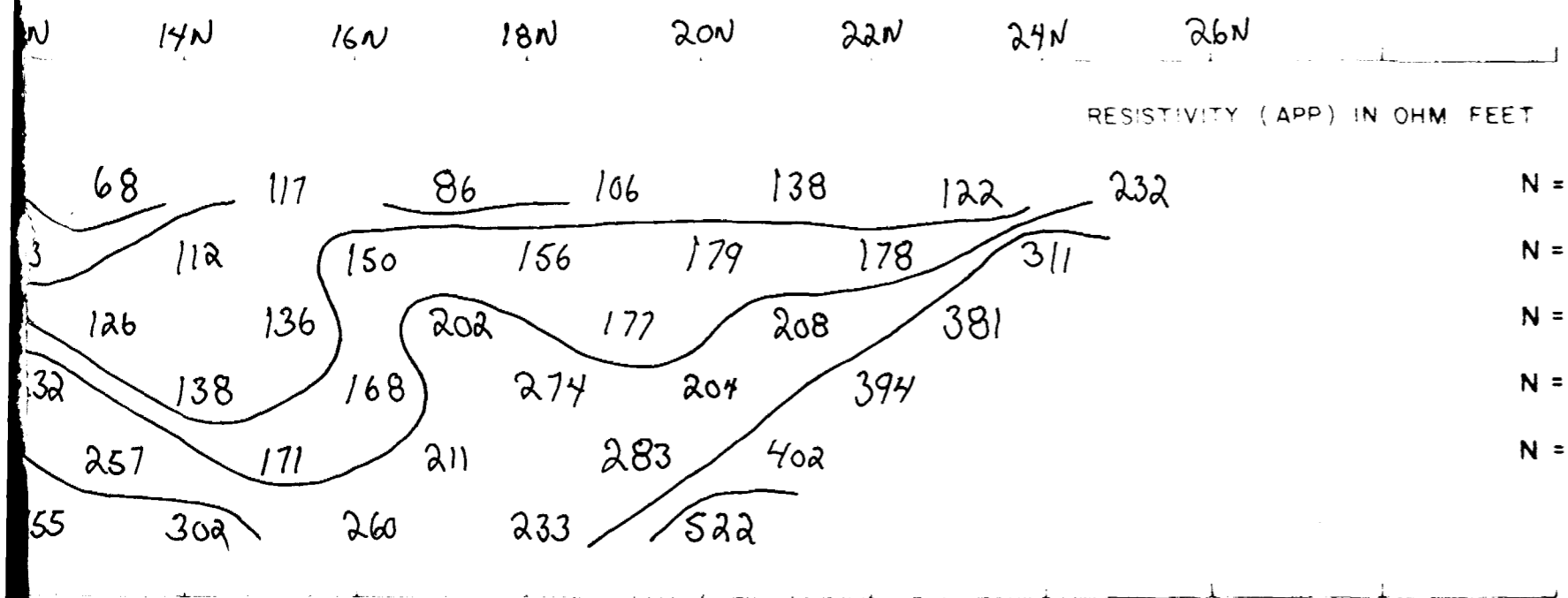


FREQUENCY EFFECT (A)



METAL FACTOR (APP)



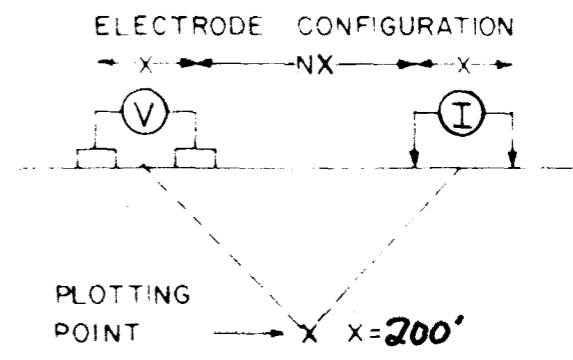


COMPANY: FALCONBRIDGE LTD

PROPERTY: GUIBORD Pn 693

PERRY LAKE MATHESON ONTARIO

LINE NO - 12E



SURFACE PROJECTION OF ANOMALOUS ZONES

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

FREQUENCIES: .25 84.0HZ

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: August - 18 - 1984

APPROVED: _____

OPERATOR: Guy GELINAS

DATE: 63,4487

INDUCED POLARIZATION AND RESISTIVITY SURVEY

FALCONBRIDGE LIMITED

GUIBORD TOWNSHIP

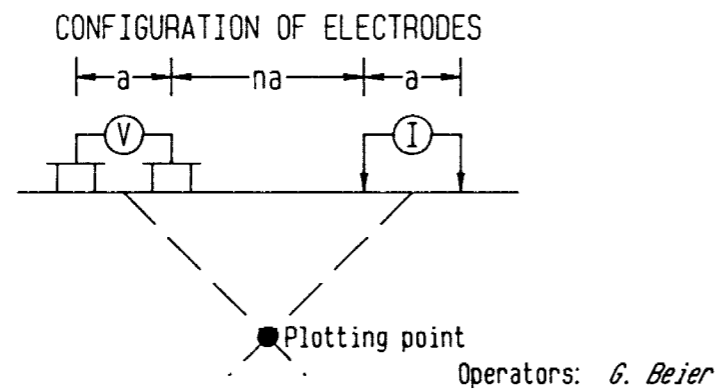
INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet
Separation between dipole : n = 1, 2, 3, 4, 5

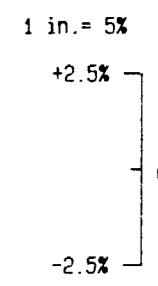


L-16+00 E

63.4487

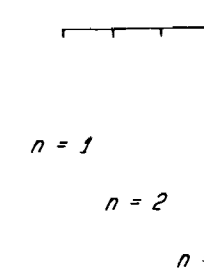
BY :	GÉOLA LTÉE	
EXECUTED BY :	G. Beier	July 1984
INTERPRETED BY :		
DRAWN BY :	J. Froulx, Tech.	August 1984
N.T.S.:	42A/B	PLAN NO : 84-976-02

PN-693
Guibord twp., Ontario
Scale : 1" = 400'
0' 200' 400' 600' 800'

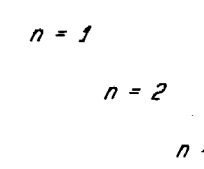


L-16+00 E
5th SEP.

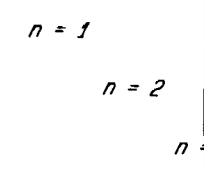
L-16+00 E
METAL FACTOR
(Ef/Res. * 1000%)



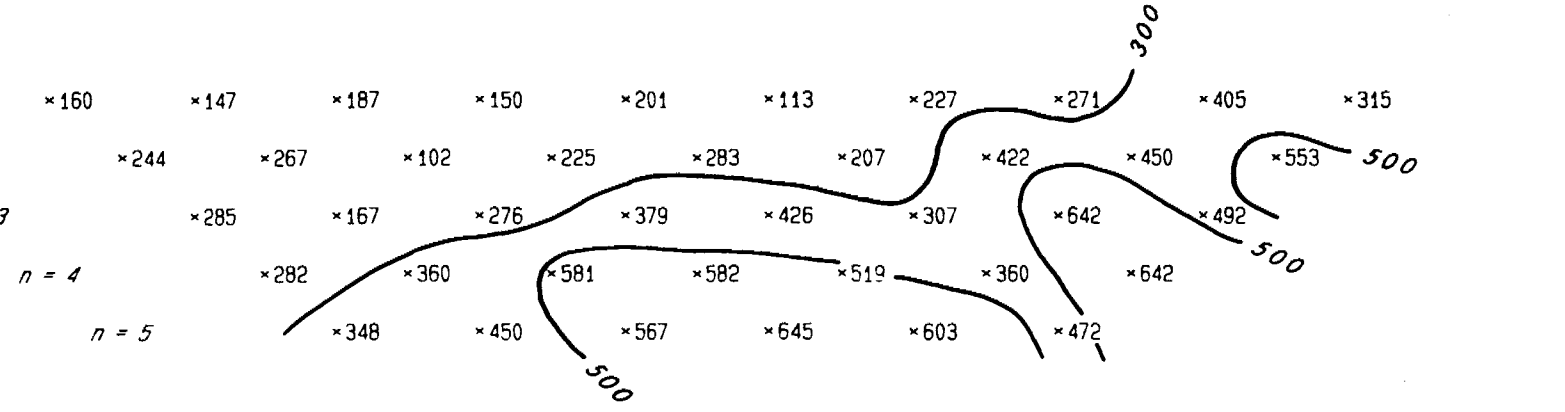
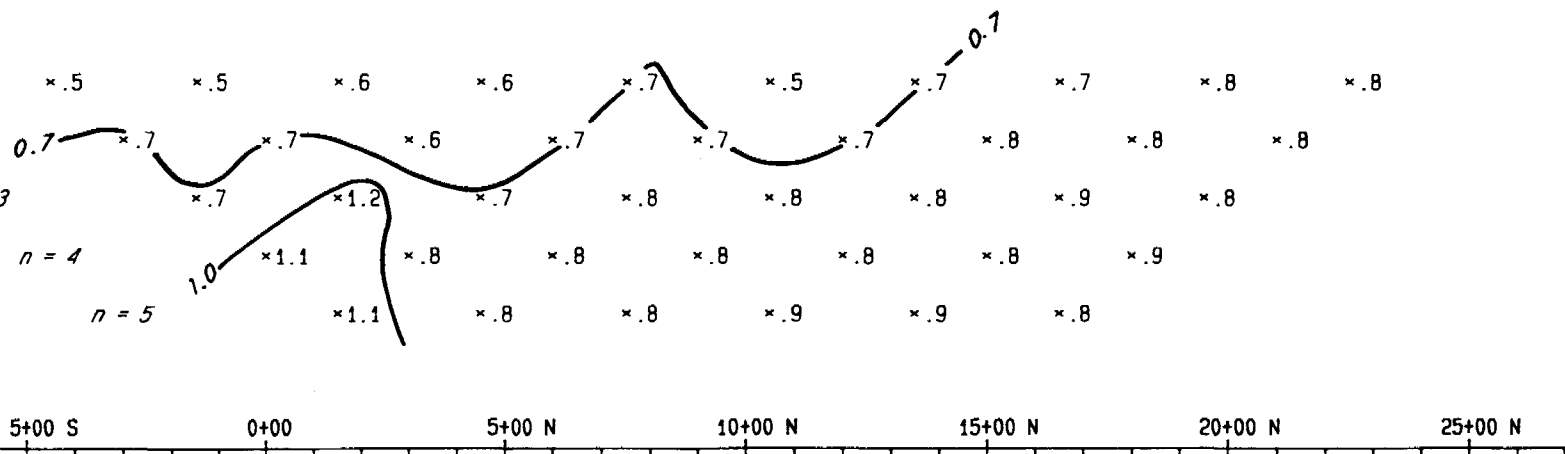
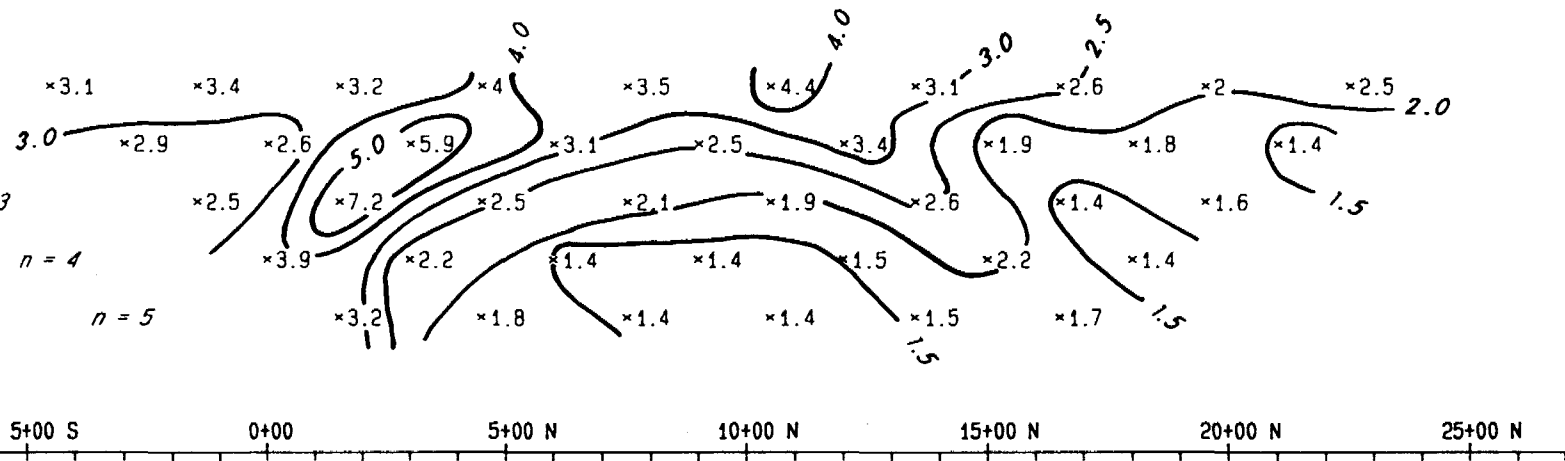
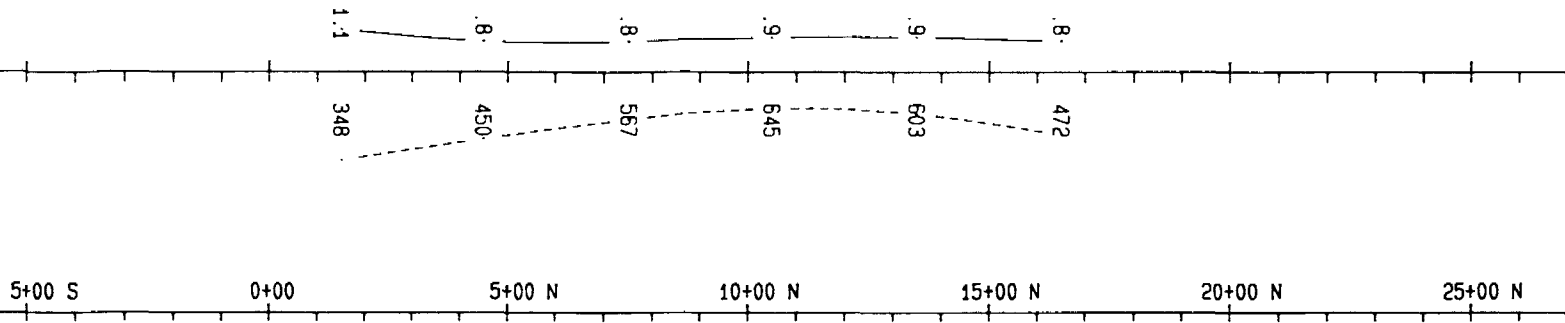
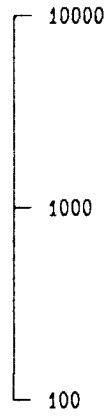
L-16+00 E
FREQUENCY EFFECT



L-16+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)



1 in. : 1 cycle



FALCONBRIDGE LIMITED

GUIBORD TOWNSHIP

INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

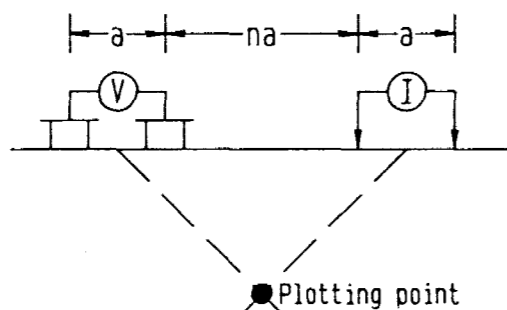
Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet

Separation between dipole : n = 1, 2, 3, 4, 5

CONFIGURATION OF ELECTRODES



Operators: G. Beier

L-18+00 E

63.4487

BY :

GÉOLA LTÉE

EXECUTED BY : G. Beier July 1984

INTERPRETED BY :

DRAWN BY : J. Proulx, Tech. August 1984

N.T.S.: 42A/B PLAN NO : 84-976-03

PV-693
Guibord twp., Ontario
Scale : 1" = 400'
0 200 400 600 800

1 in. = 5%

+2.5%

-2.5%

L-18+00 E

5th SEP.

L-18+00 E

METAL FACTOR

(E_f/Res. * 1000%)

n = 1

n = 2

n

L-18+00 E

FREQUENCY EFFECT

n = 1

n = 2

n

L-18+00 E

RESISTIVITY

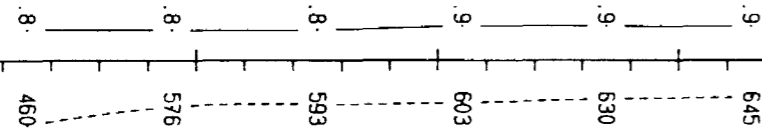
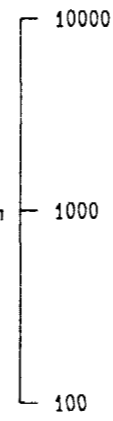
(Pa/2π, Ohm-metres)

n = 1

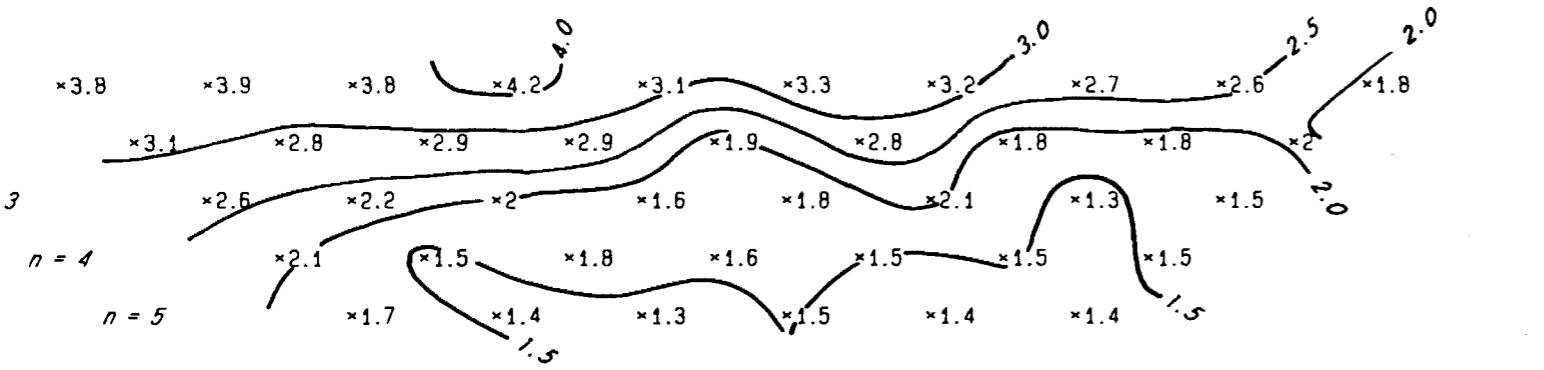
n = 2

n

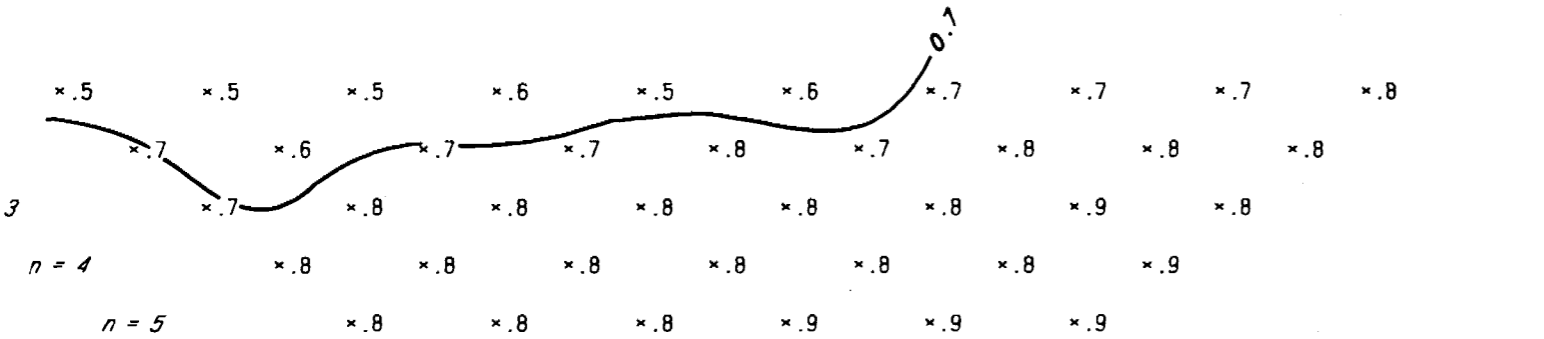
1 in. : 1 cycle



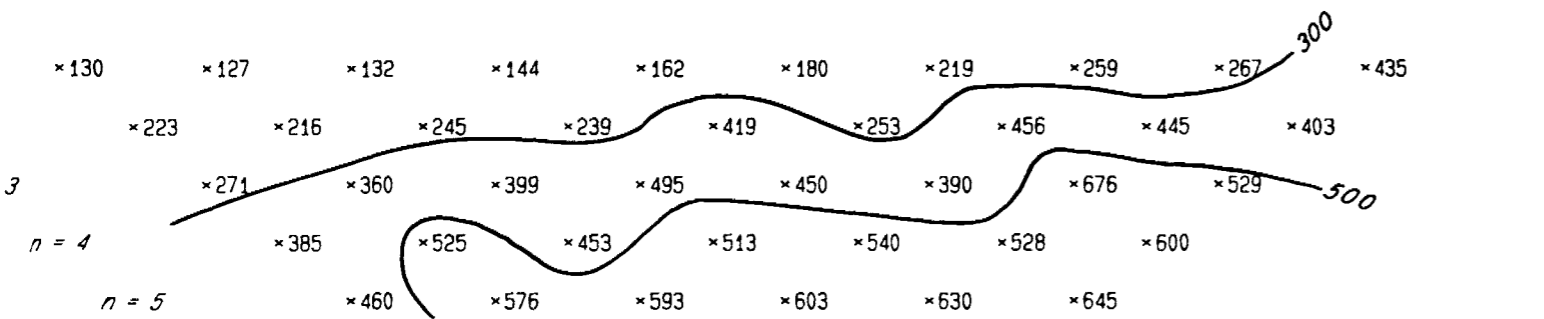
5+00 S 0+00 5+00 N 10+00 N 15+00 N 20+00 N 25+00 N



5+00 S 0+00 5+00 N 10+00 N 15+00 N 20+00 N 25+00 N



5+00 S 0+00 5+00 N 10+00 N 15+00 N 20+00 N 25+00 N



FALCONBRIDGE LIMITED

GUIBORD TOWNSHIP

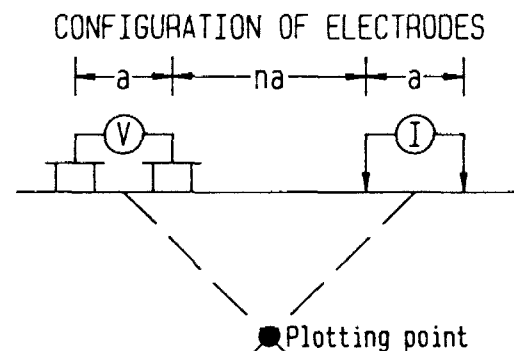
INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet
Separation between dipole : n = 1, 2, 3, 4, 5



Operators: G. Beier

L-24+00 E

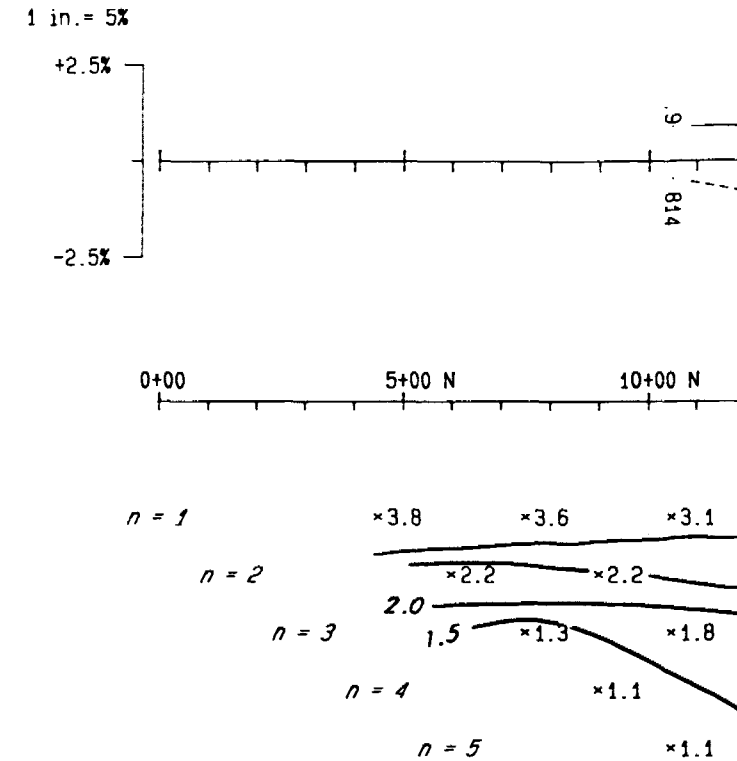
63 44 87

BY :	GÉOLA LTÉE	
EXECUTED BY :	G. Beier	July 1984
INTERPRETED BY :		
DRAWN BY :	J. Proulx, Tech.	August 1984
N.T.S.:	42A/B	PLAN NO : 84-976-04

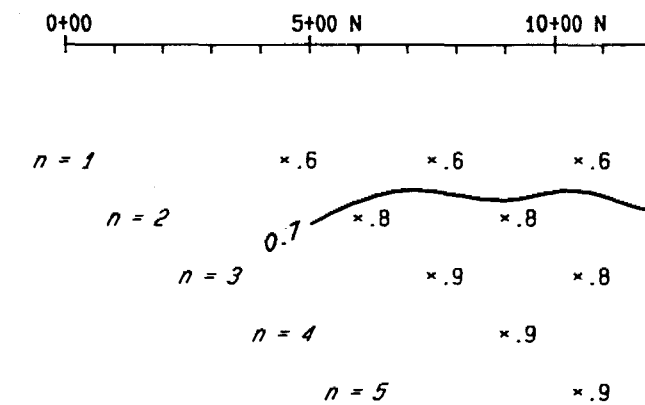
PN-693
Guibord twp., Ontario
Scale : 1" = 400'
0 200 400 600 800

L-24+00 E
5th SEP.

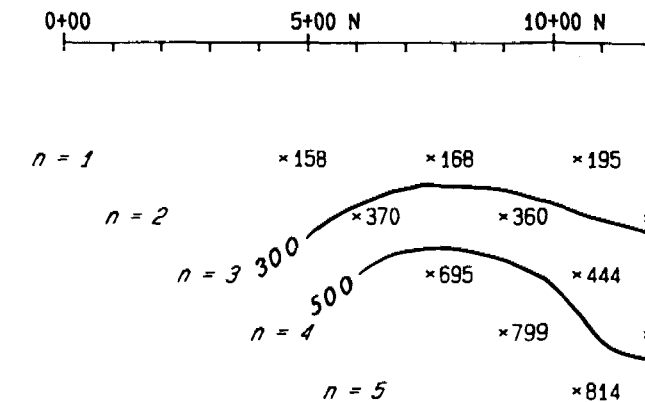
L-24+00 E
METAL FACTOR
(Ef/Res. * 1000%)



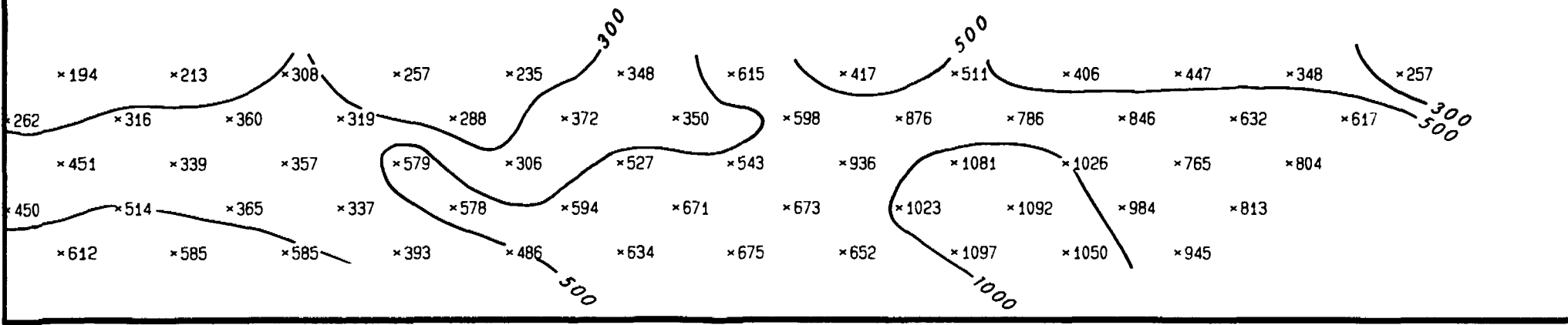
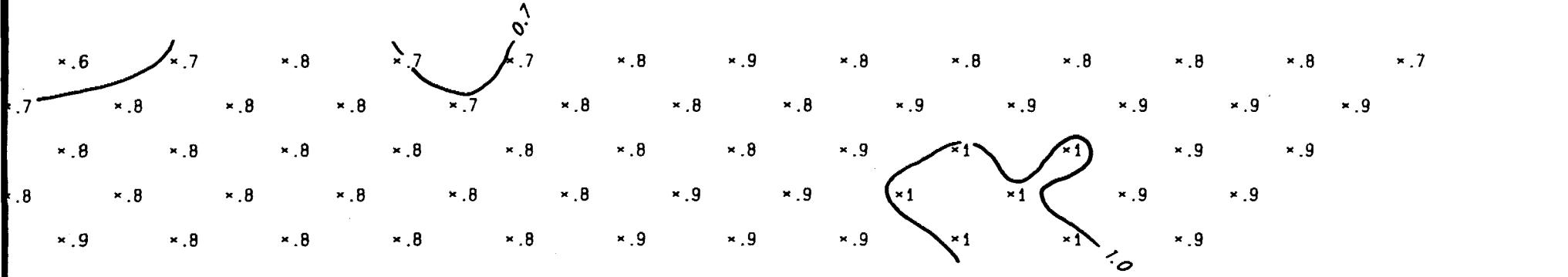
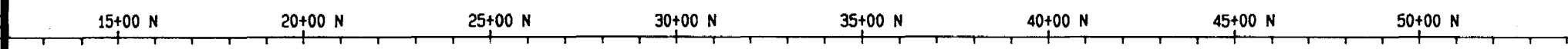
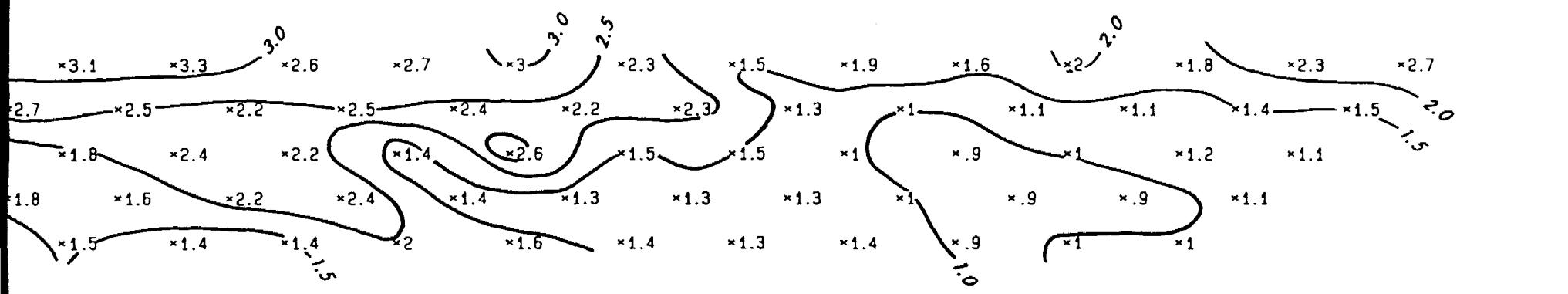
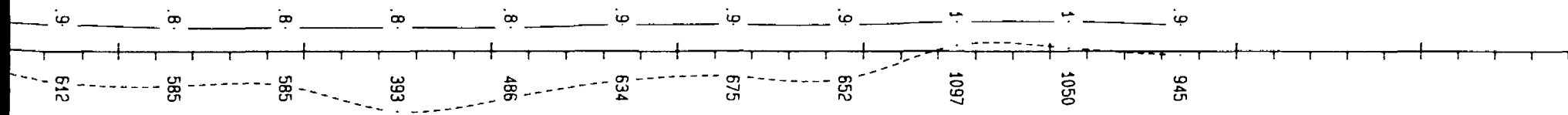
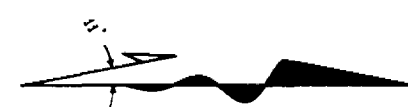
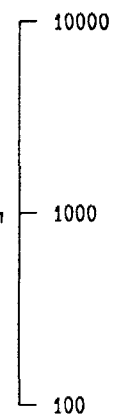
L-24+00 E
FREQUENCY EFFECT



L-24+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)



1 in. : 1 cycle



FALCONBRIDGE LIMITED

GUIBORD TOWNSHIP

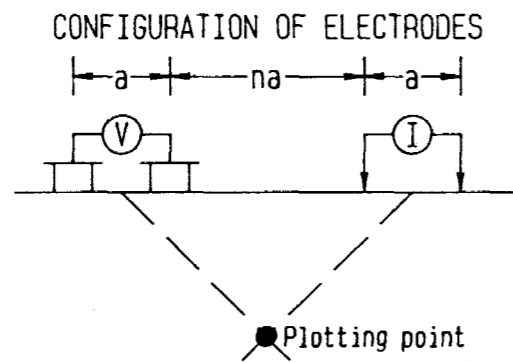
INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet
Separation between dipole : n = 1, 2, 3, 4, 5



Operators: G. Beier

L-34+00 E

63.4487

BY :	GÉOLA LTÉE	
EXECUTED BY :	G. Beier	July 1984
INTERPRETED BY :		
DRAWN BY :	J. Proulx, Tech.	August 1984
N.T.S.:	42A/B	PLAN NO : 84-976-05

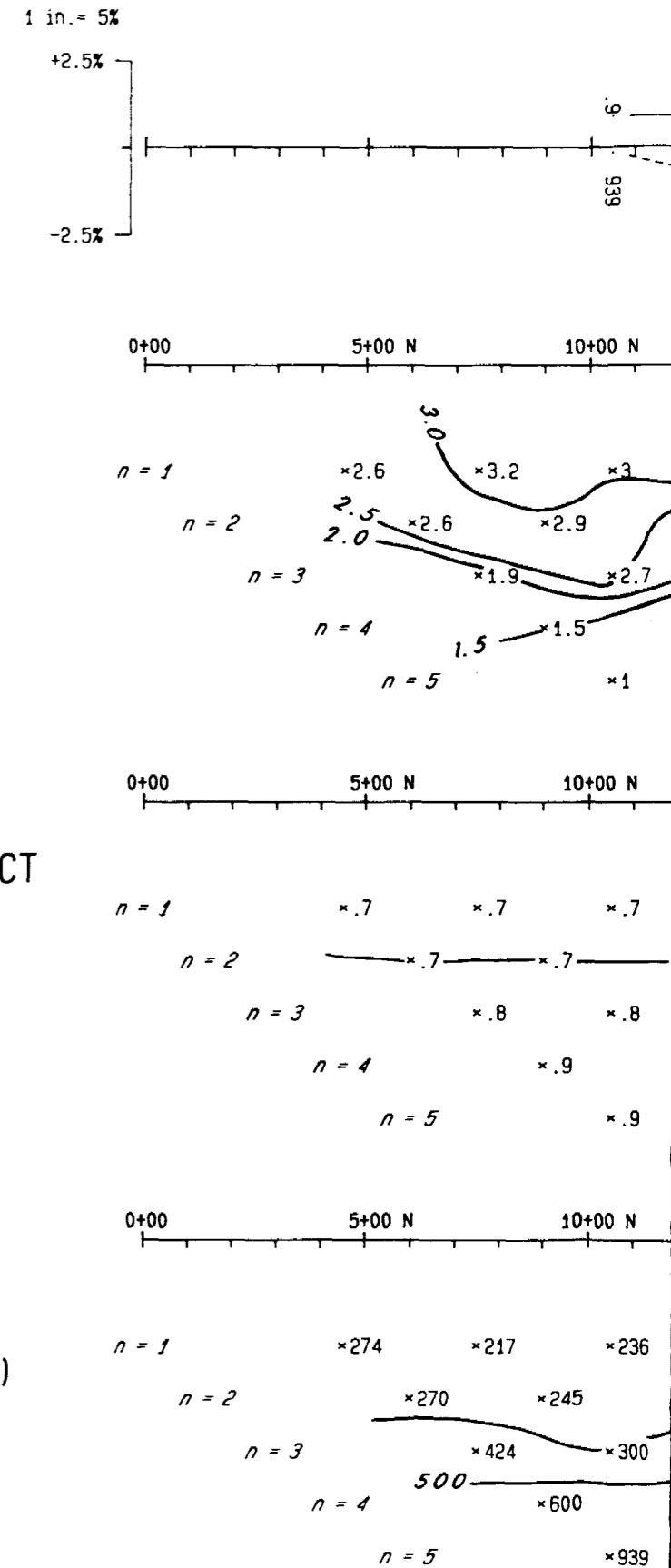
PN-693
Guibord tmp., Ontario
Scale : 1" = 400'
0' 200' 400' 600' 800'

L-34+00 E
5th SEP.

L-34+00 E
METAL FACTOR
(Ef/Res. * 1000%)

L-34+00 E
FREQUENCY EFFECT

L-34+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)



FALCONBRIDGE LIMITED

GUIBORD TOWNSHIP

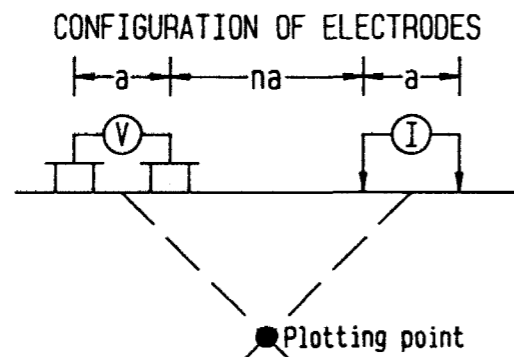
INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet
Separation between dipole : n = 1, 2, 3, 4, 5



Operators: G. Beier

L-38+00 E

63,4487

BY :

GÉOLA LTÉE

EXECUTED BY : G. Beier July 1984

INTERPRETED BY :

DRAWN BY : J. Proulx, Tech. August 1984

N.T.S.: 42A/B PLAN NO : 84-976-06

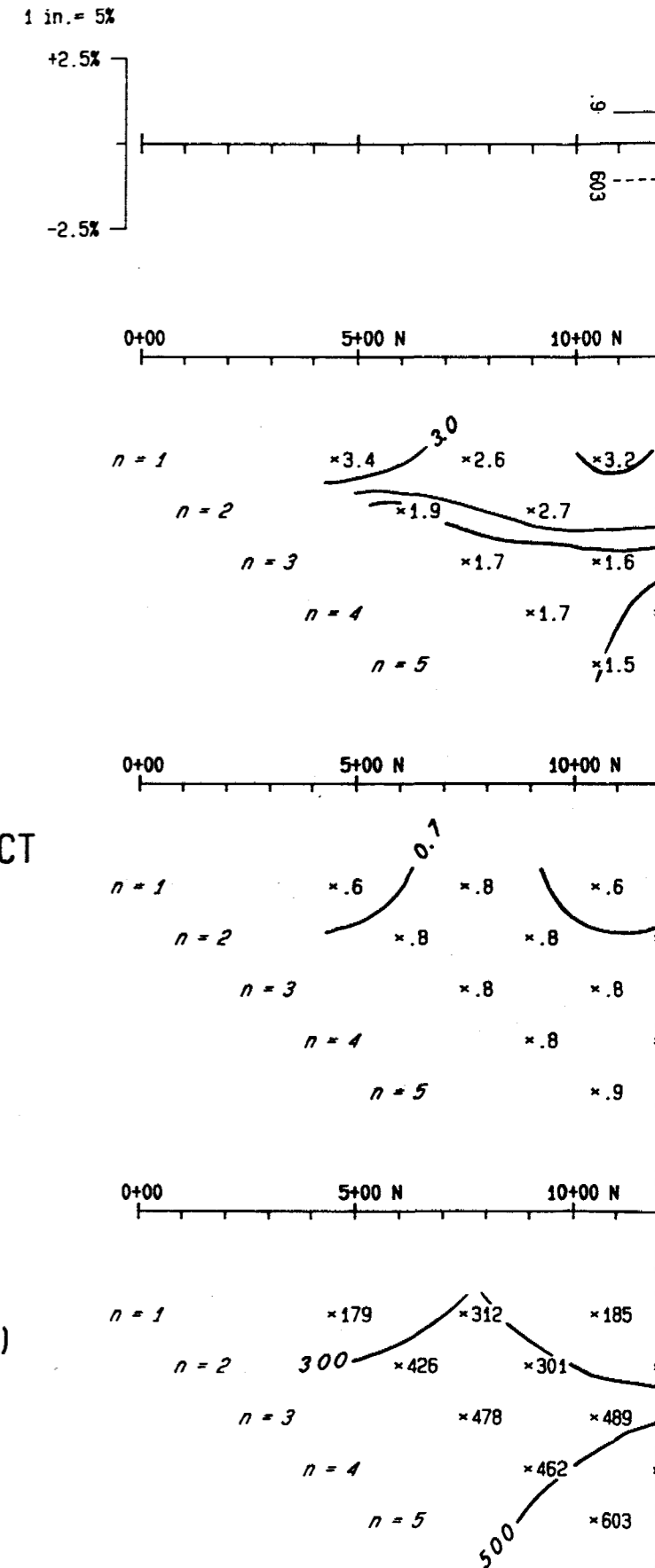
PN-693
Guibord tmp., Ontario
Scale : 1" = 400'
0 200' 400' 600' 800'

L-38+00 E
5th SEP.

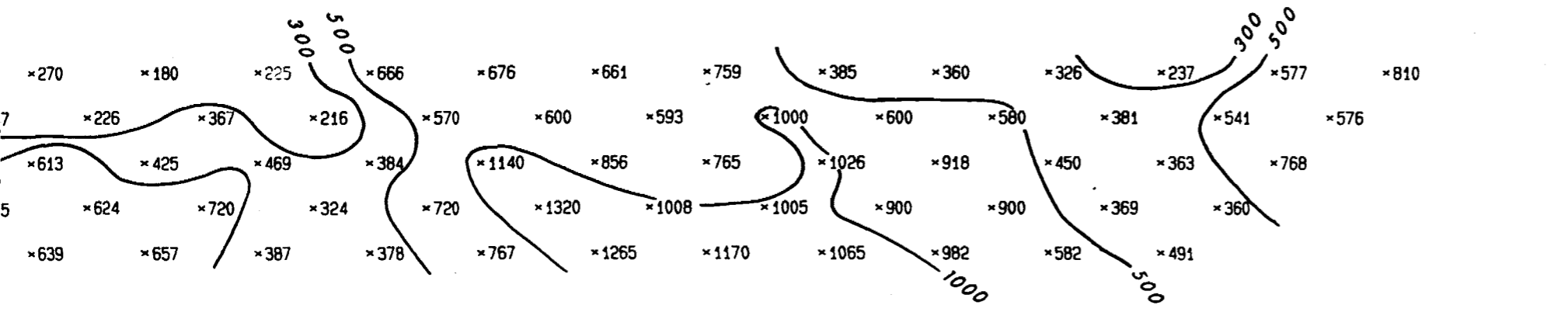
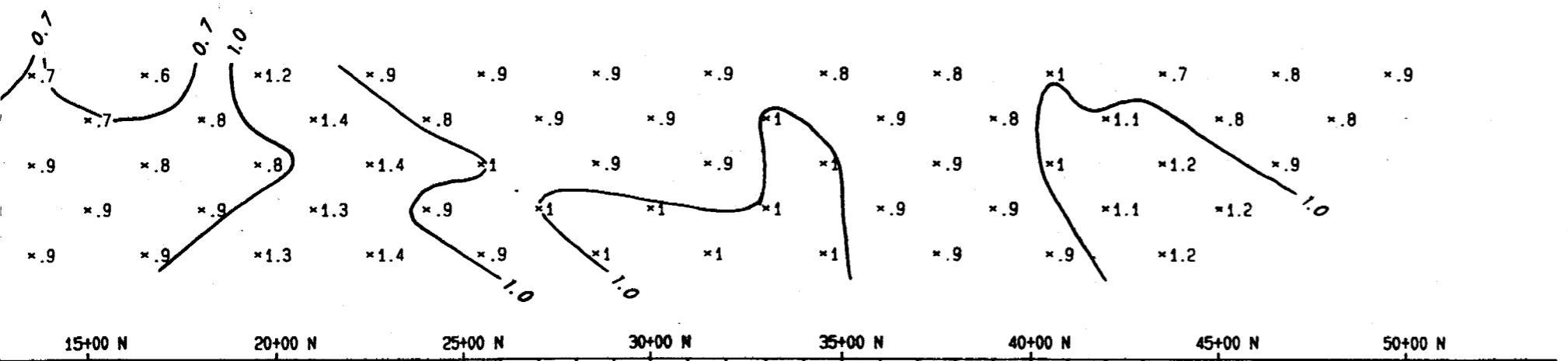
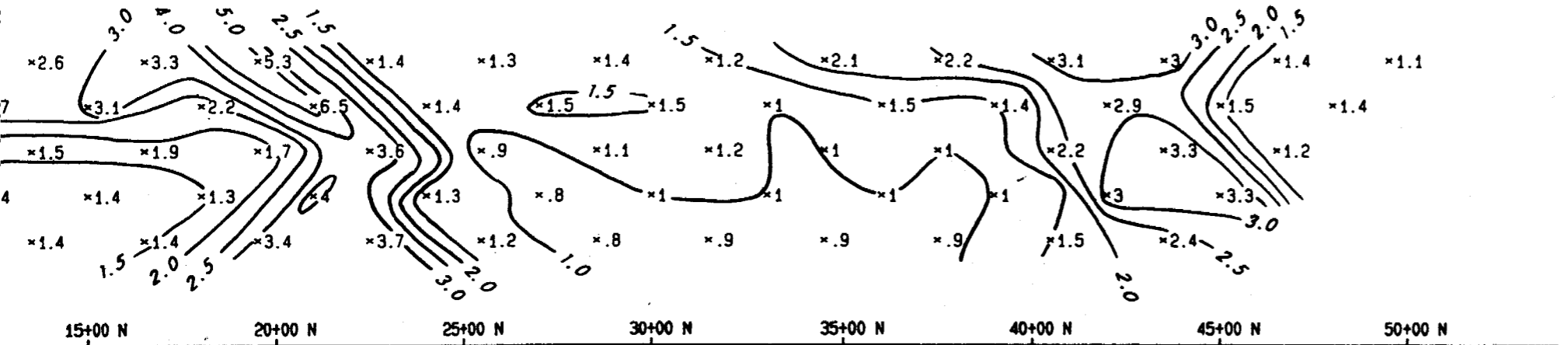
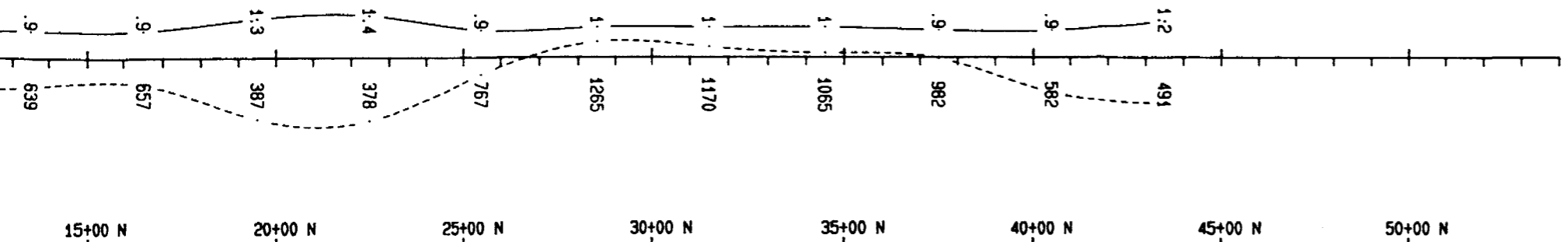
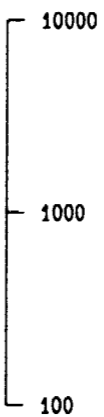
L-38+00 E
METAL FACTOR
(Ef/Res. * 1000%)

L-38+00 E
FREQUENCY EFFECT

L-38+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)



1 in. : 1 cycle



FALCONBRIDGE LIMITED

GUIBORD TOWNSHIP

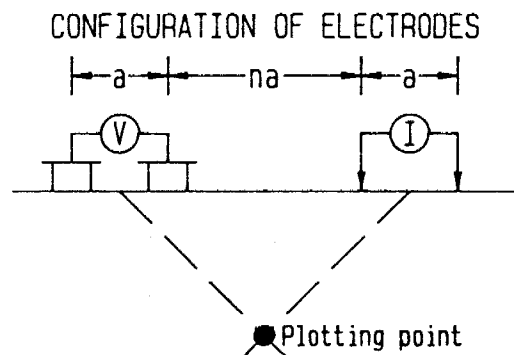
INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet
Separation between dipole : n = 1, 2, 3, 4, 5



Operators: G. Beier

L-46+00 E

C3.4487

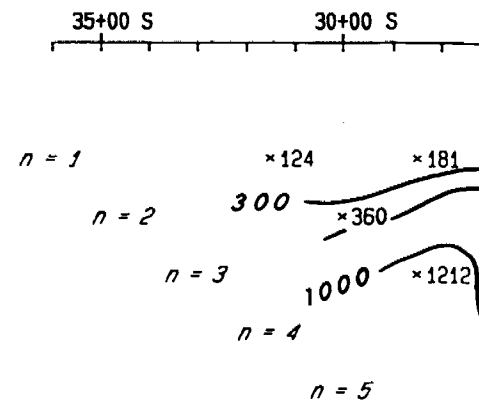
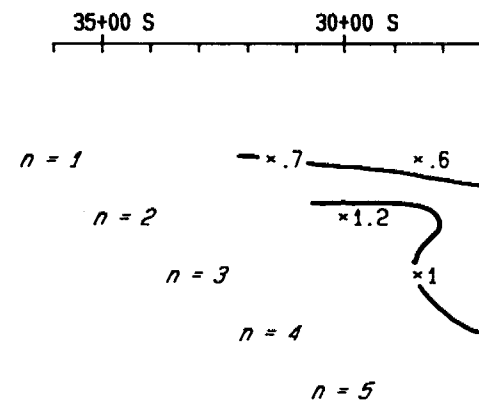
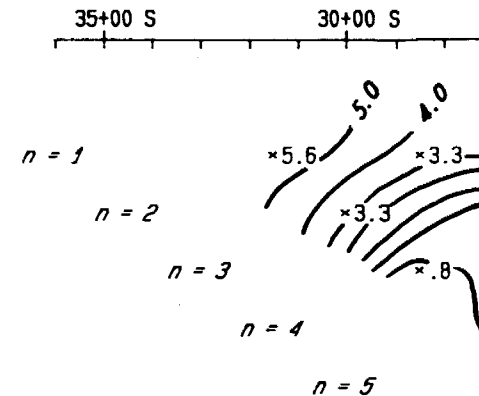
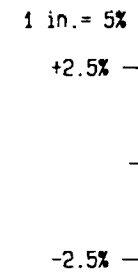
BY :		GÉOLA LTÉE	
EXECUTED BY :	G. Beier	July 1984	PN-693 Guibord tmp., Ontario Scale : 1" = 400'
INTERPRETED BY :			
DRAWN BY :	J. Proulx, Tech.	August 1984	
N.T.S.:	42A/B	PLAN NO : 84-976-07	

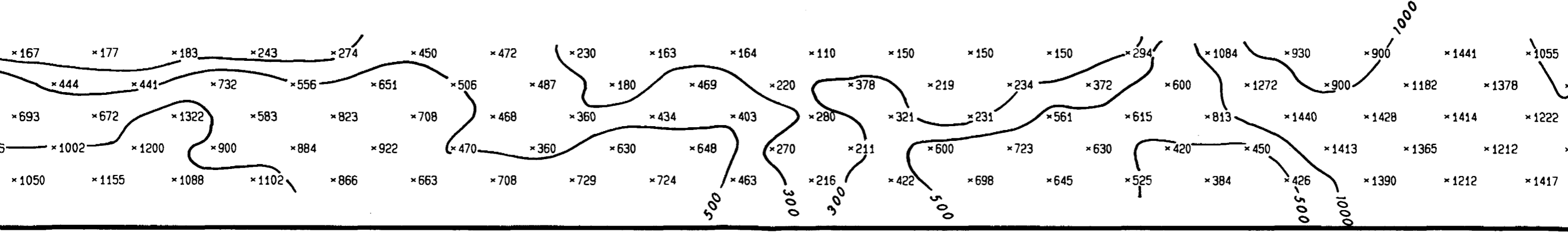
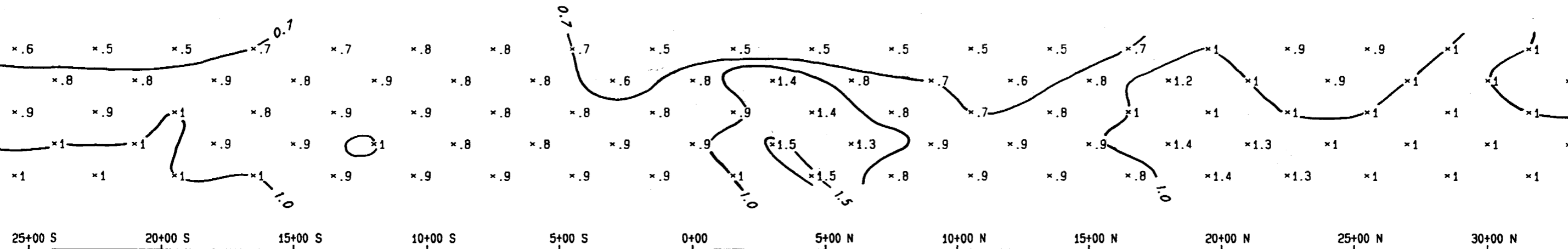
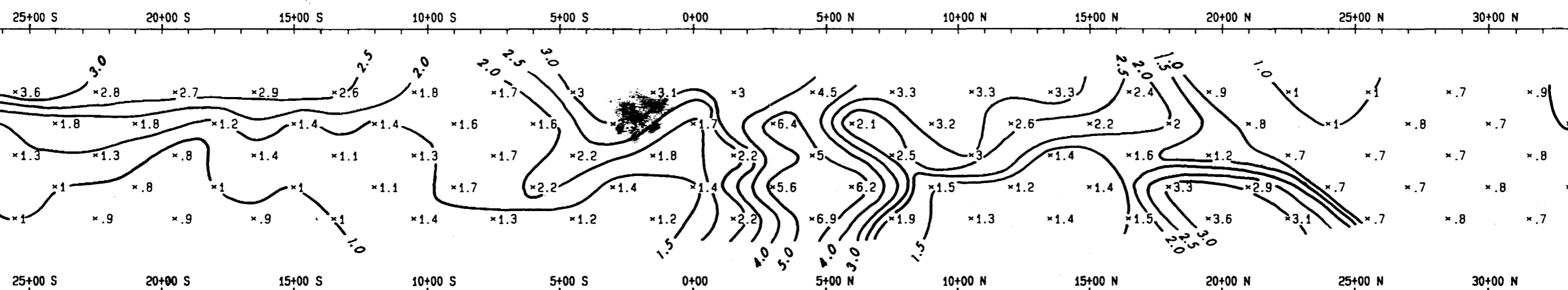
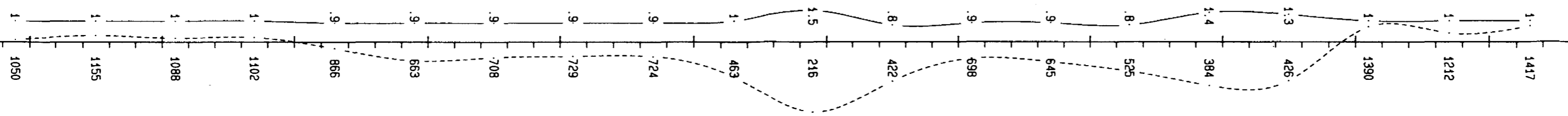
L-46+00 E
5th SEP.

L-46+00 E
METAL FACTOR
(Ef/Res. * 1000%)

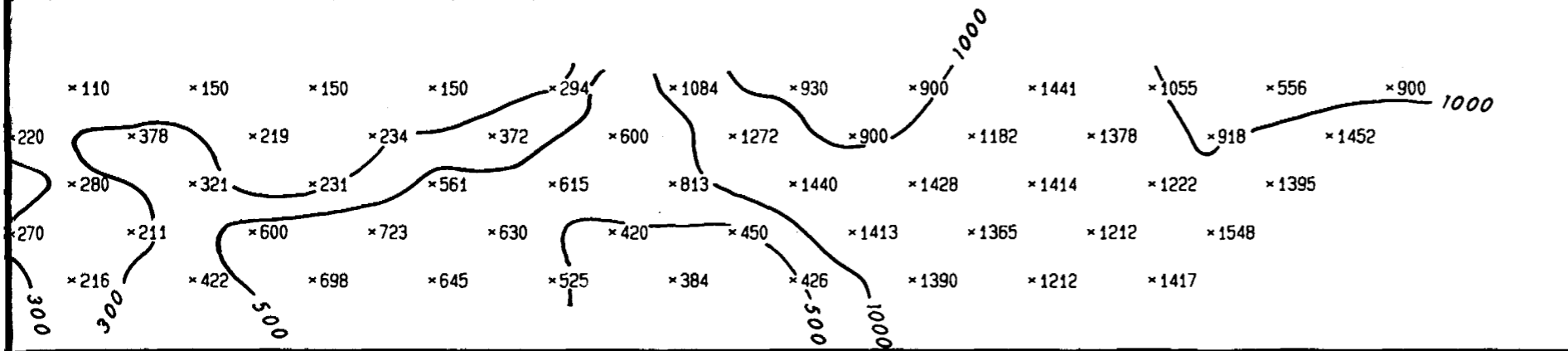
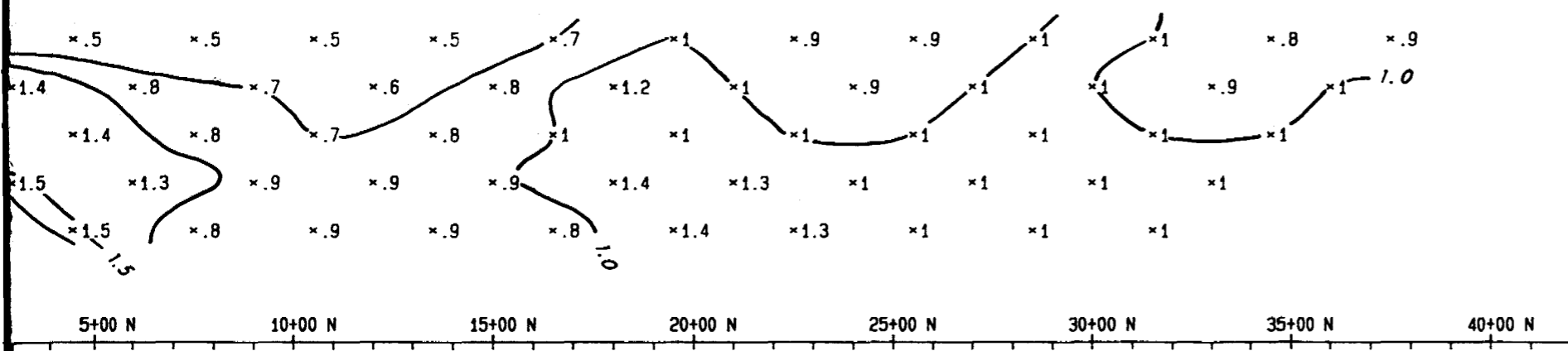
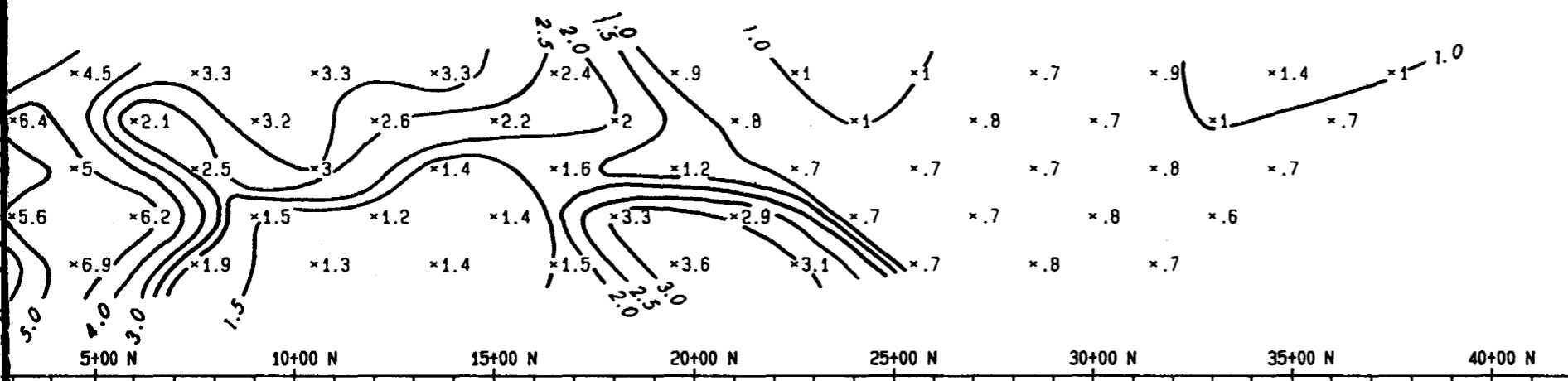
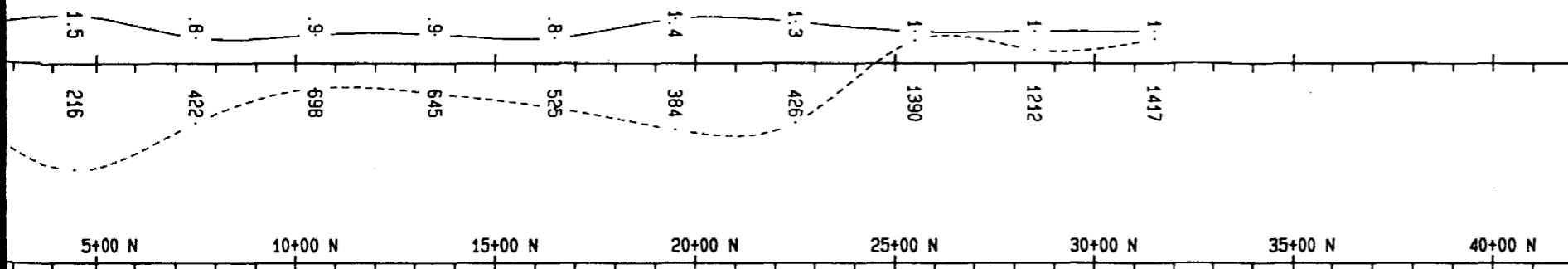
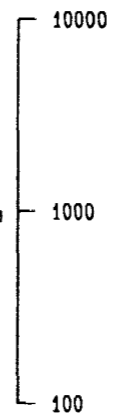
L-46+00 E
FREQUENCY EFFECT

L-46+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)





1 in. : 1 cycle



FALCONBRIDGE LIMITED

GUIBORD TOWNSHIP

INDUCED POLARIZATION SURVEY

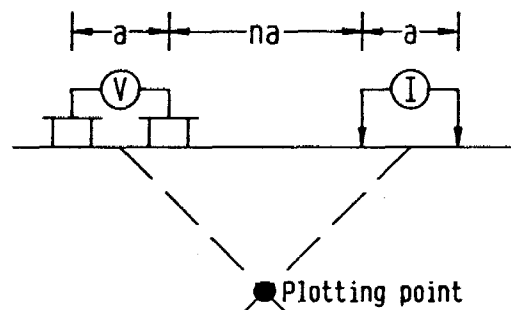
Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet
Separation between dipole : n = 1, 2, 3, 4, 5

CONFIGURATION OF ELECTRODES

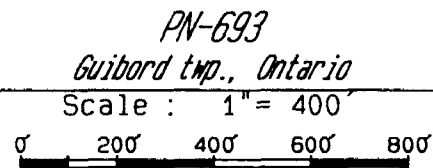


Operators: G. Beier

L-52+00 E

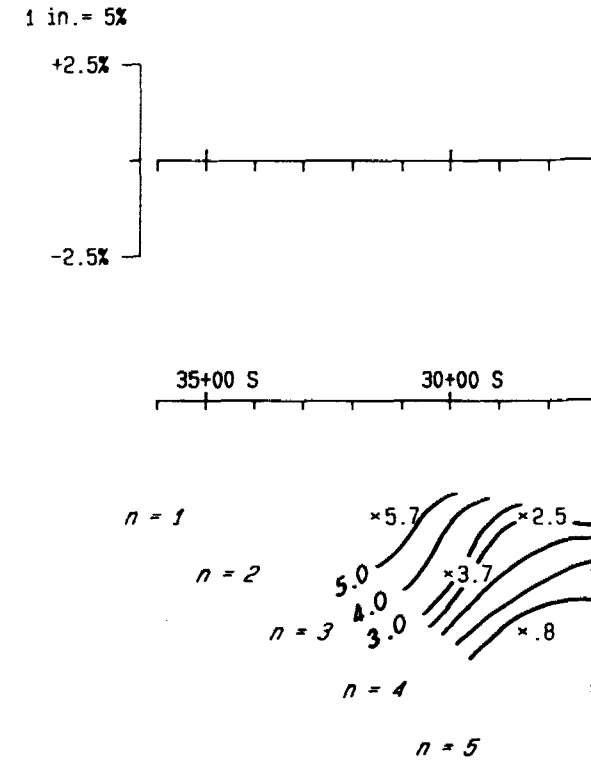
63,4487

BY :	GÉOLA LTÉE	
EXECUTED BY :	G. Beier	July 1984
INTERPRETED BY :		
DRAWN BY :	J. Proulx, Tech.	August 1984
N.T.S.:	42A/8	PLAN NO : 84-976-08

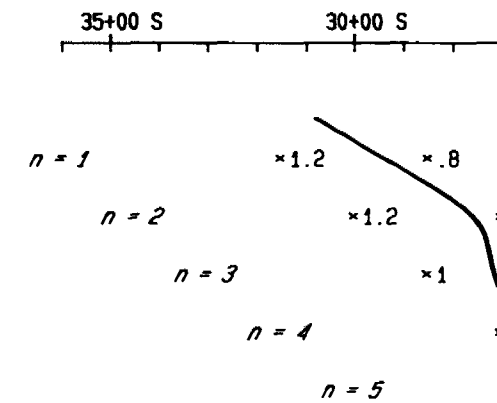


L-52+00 E
5th SEP.

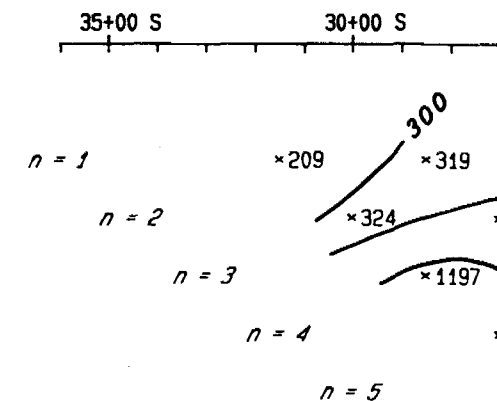
L-52+00 E
METAL FACTOR
(Ef/Res. * 1000%)

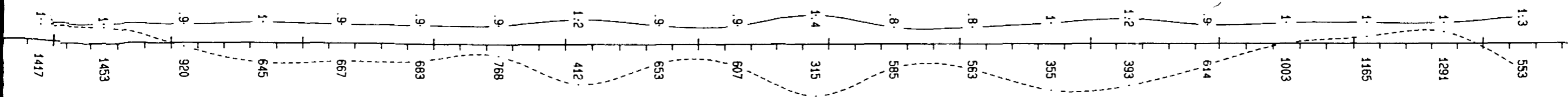


L-52+00 E
FREQUENCY EFFECT

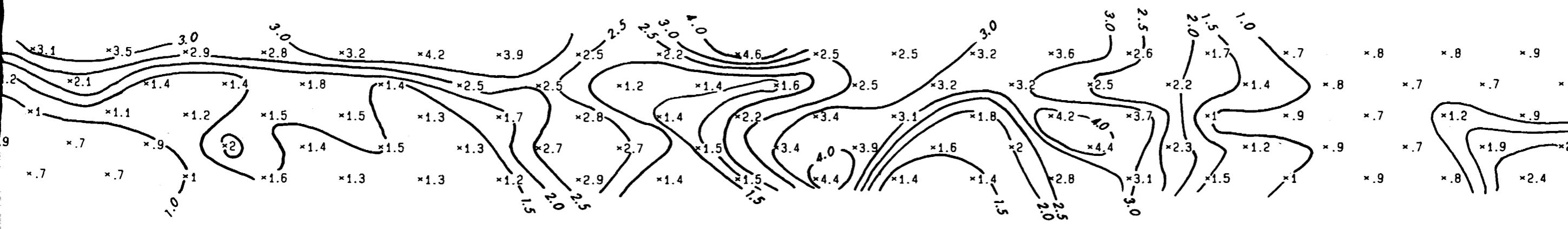


L-52+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)

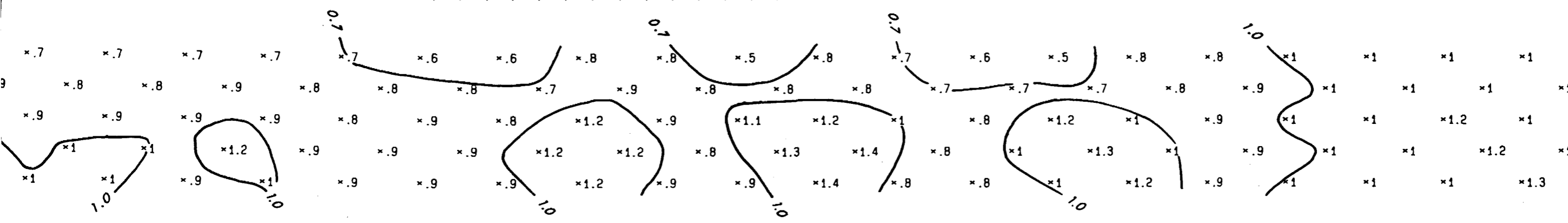




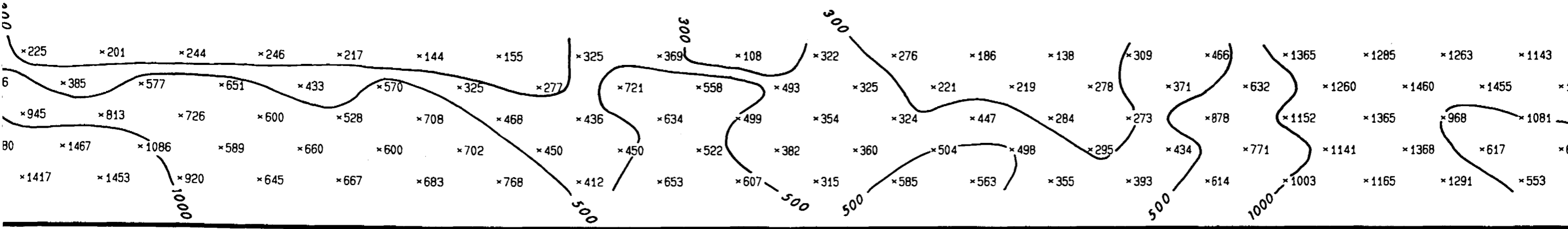
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25+00 S 20+00 S 15+00 S 10+00 S 5+00 S 0+00 5+00 N 10+00 N 15+00 N 20+00 N 25+00 N 30+00 N

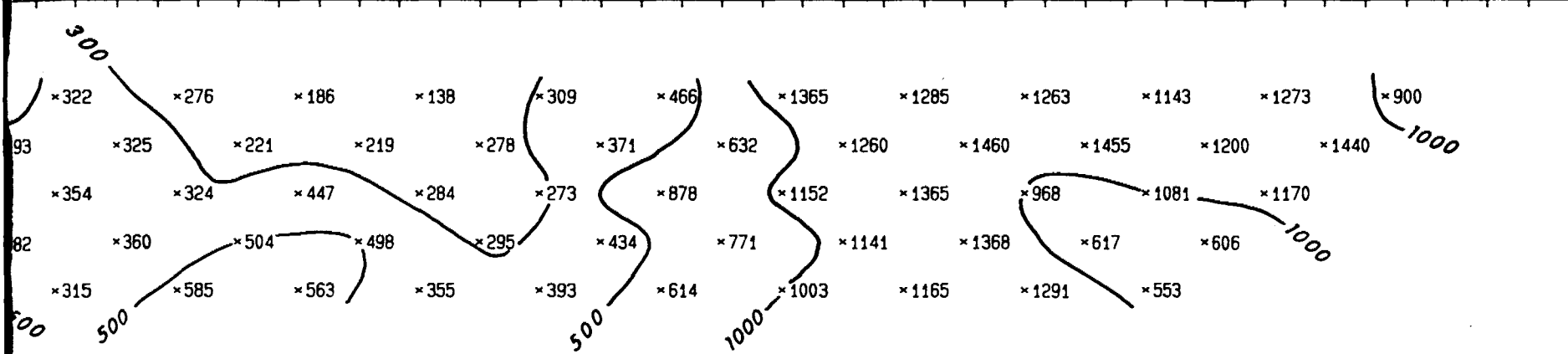
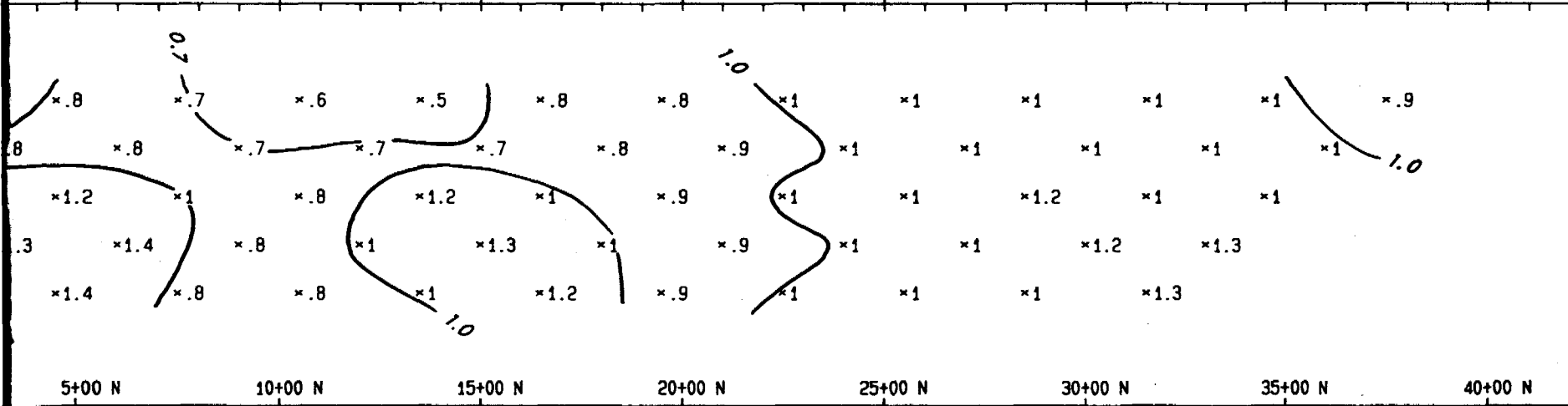
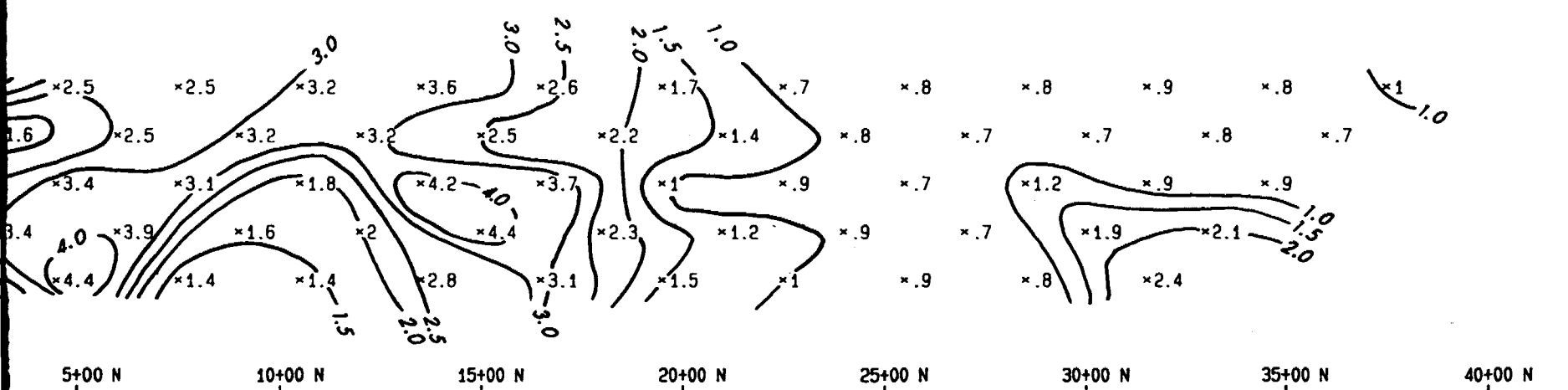
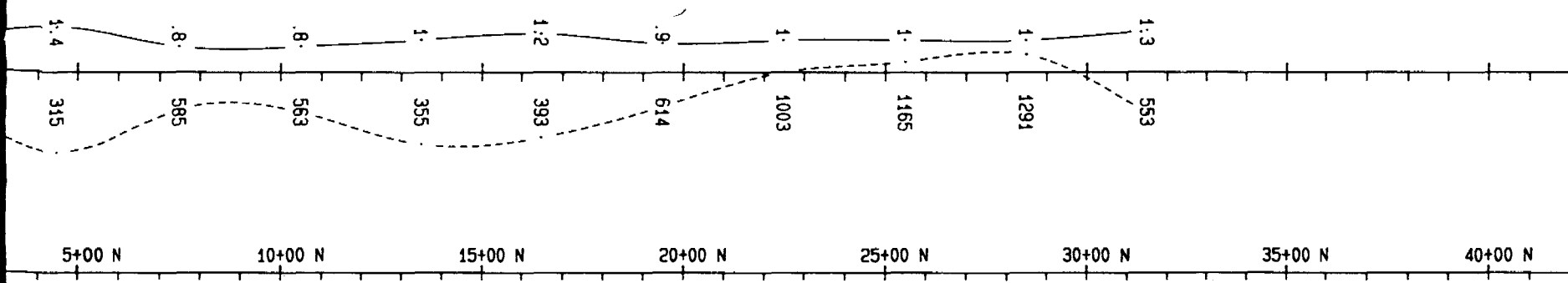
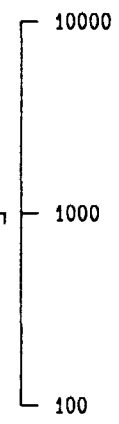


25+00 S 20+00 S 15+00 S 10+00 S 5+00 S 0+00 5+00 N 10+00 N 15+00 N 20+00 N 25+00 N 30+00 N



25+00 S 20+00 S 15+00 S 10+00 S 5+00 S 0+00 5+00 N 10+00 N 15+00 N 20+00 N 25+00 N 30+00 N

1 in. : 1 cycle



FALCONBRIDGE LIMITED

GUIBORD TOWNSHIP

INDUCED POLARIZATION SURVEY

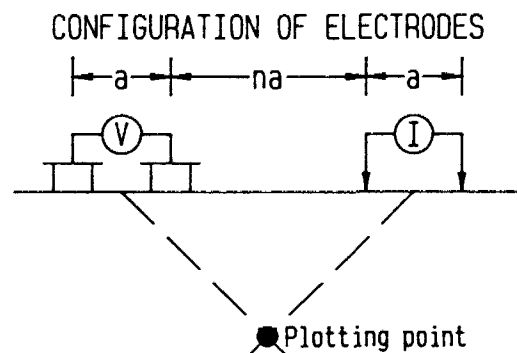
Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : $a = 300$ feet

Separation between dipole : $n = 1, 2, 3, 4, 5$



Operators: *G. Beier*

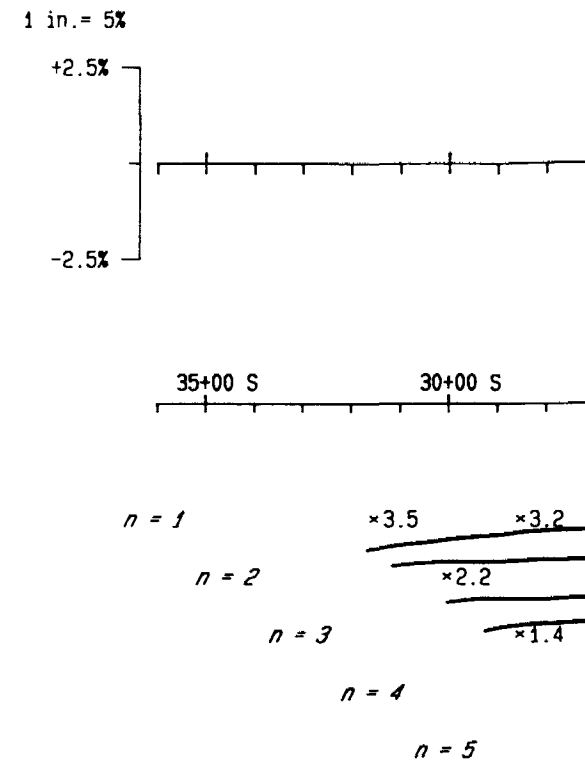
L-58+00 E

63,4487

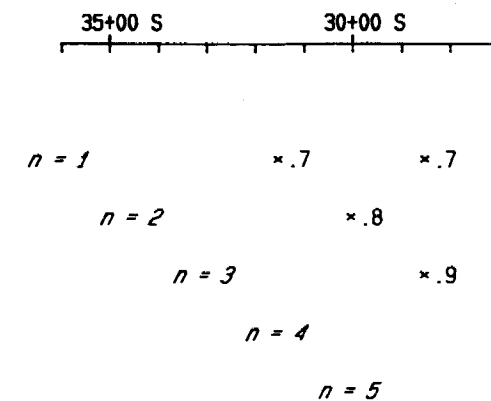
BY :		GÉOLA LTÉE	
EXECUTED BY :	<i>G. Beier</i>	July 1984	PN-693 Guibord twp., Ontario Scale : 1" = 400'
INTERPRETED BY :			
DRAWN BY :	<i>J. Proulx, Tech.</i>	August 1984	
N.T.S.:	42A/B	PLAN NO : 84-976-09	

L-58+00 E
5th SEP.

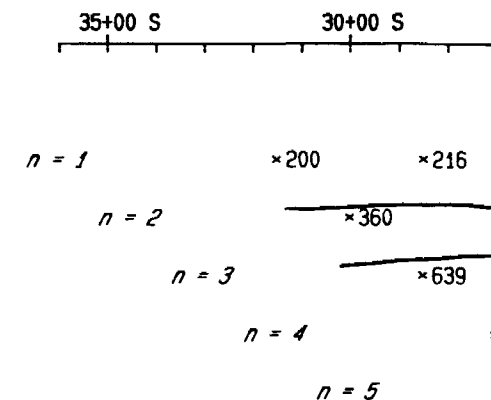
L-58+00 E
METAL FACTOR
($E_f/Res. \times 1000\%$)

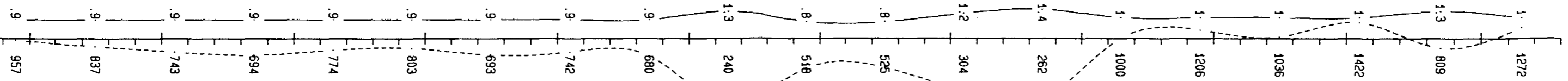


L-58+00 E
FREQUENCY EFFECT

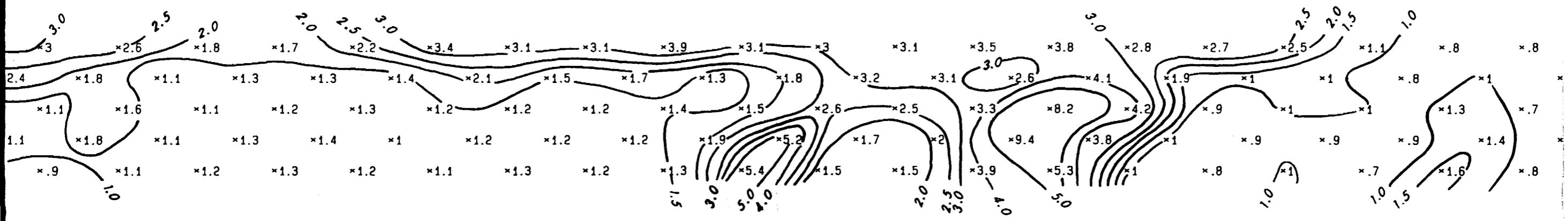


L-58+00 E
RESISTIVITY
($\rho_a/2\pi$, Ohm-metres)

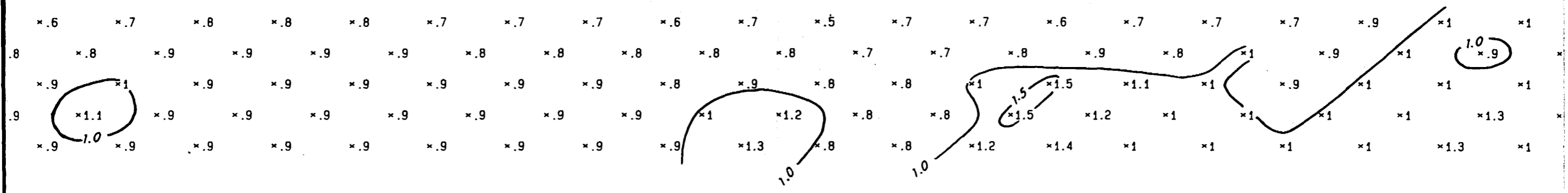




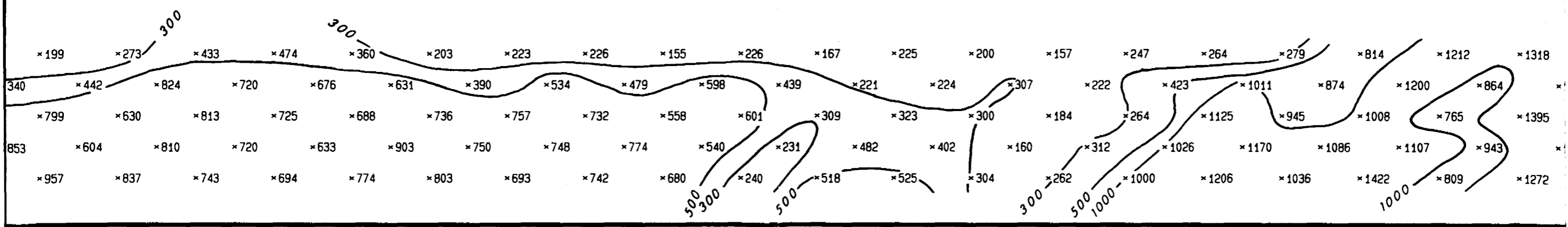
25+00 S 20+00 S 15+00 S 10+00 S 5+00 S 0+00 5+00 N 10+00 N 15+00 N 20+00 N 25+00 N 30+00 N



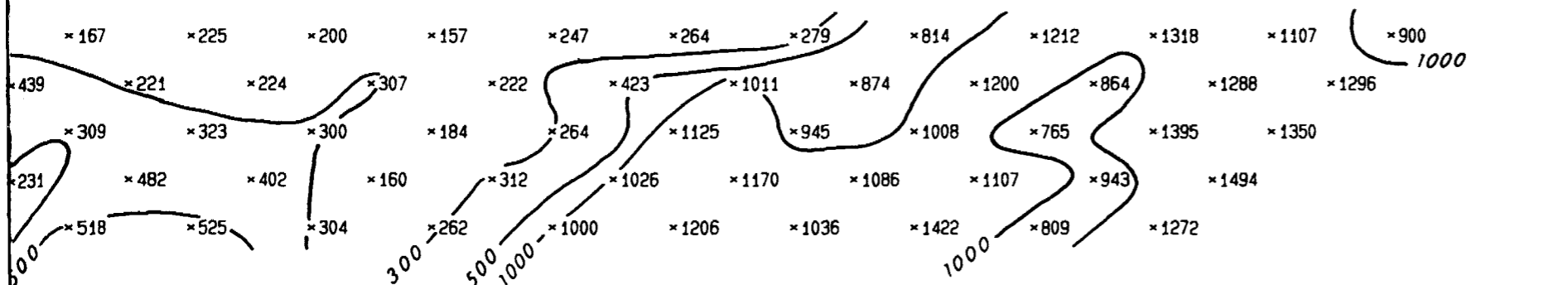
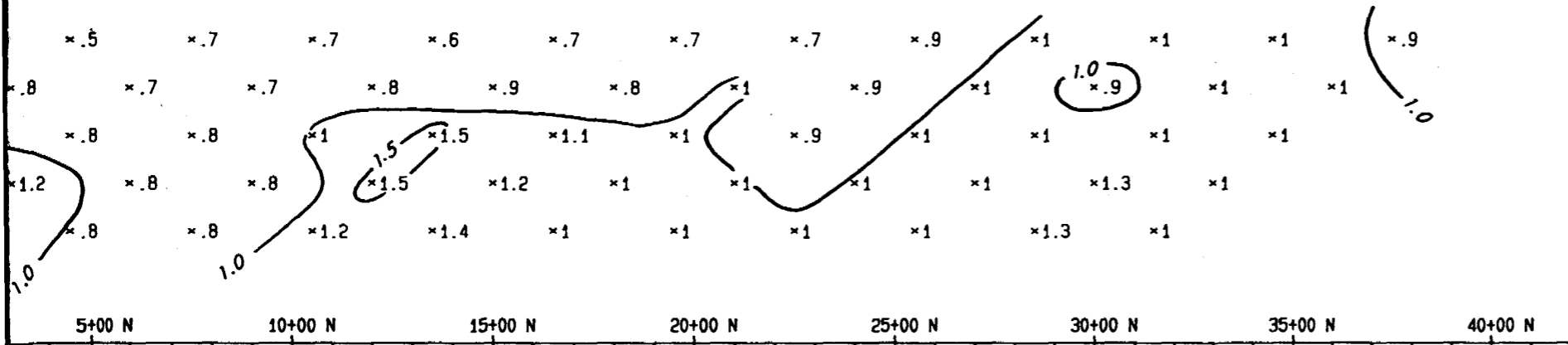
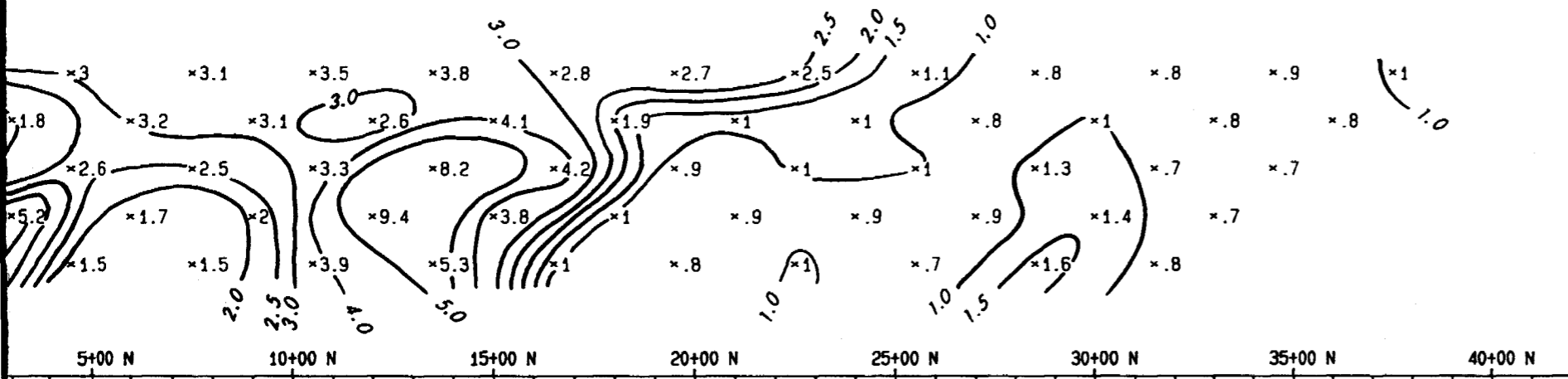
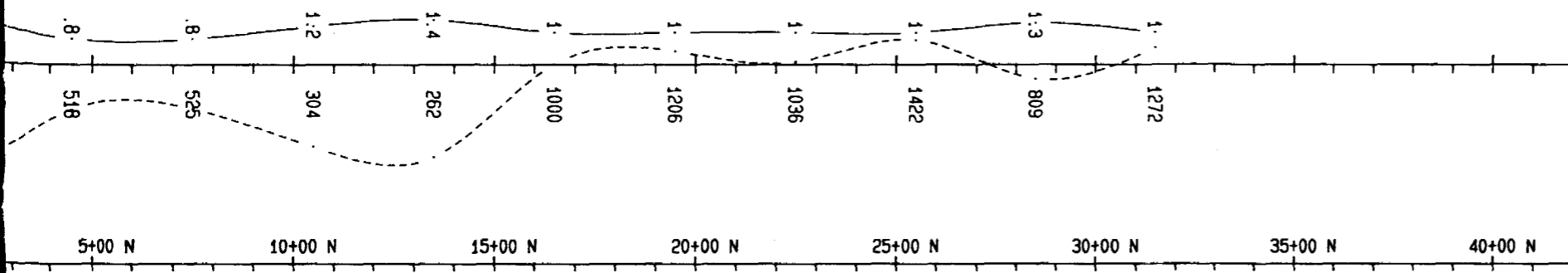
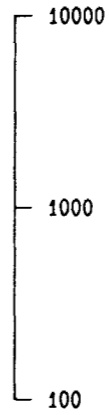
25+00 S 20+00 S 15+00 S 10+00 S 5+00 S 0+00 5+00 N 10+00 N 15+00 N 20+00 N 25+00 N 30+00 N



25+00 S 20+00 S 15+00 S 10+00 S 5+00 S 0+00 5+00 N 10+00 N 15+00 N 20+00 N 25+00 N 30+00 N



1 in. : 1 cycle



FALCONBRIDGE LIMITED

GUIBORD TOWNSHIP

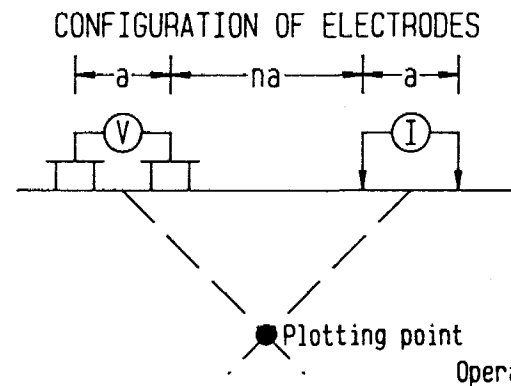
INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet
Separation between dipole : n = 1, 2, 3, 4, 5



Operators: G. Beier

L-68+00 E

63.4487

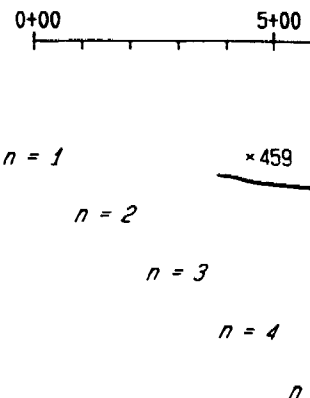
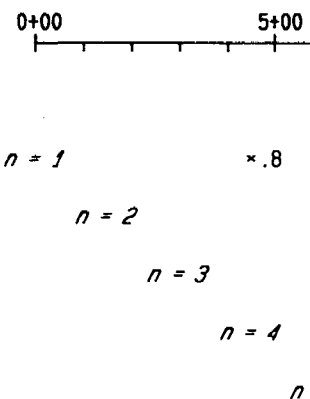
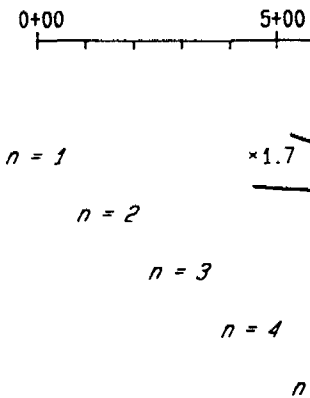
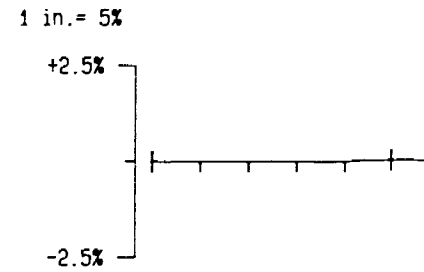
BY :		GÉOLA LTÉE	
EXECUTED BY :	G. Beier	JULY 1984	PN-693 Guibord twp., Ontario Scale : 1" = 400'
INTERPRETED BY :			
DRAWN BY :	J. Proulx, Tech.	August 1984	
N.T.S.:	42A/B	PLAN NO : 84-976-11	0' 200' 400' 600' 800'

L-68+00 E
5th SEP.

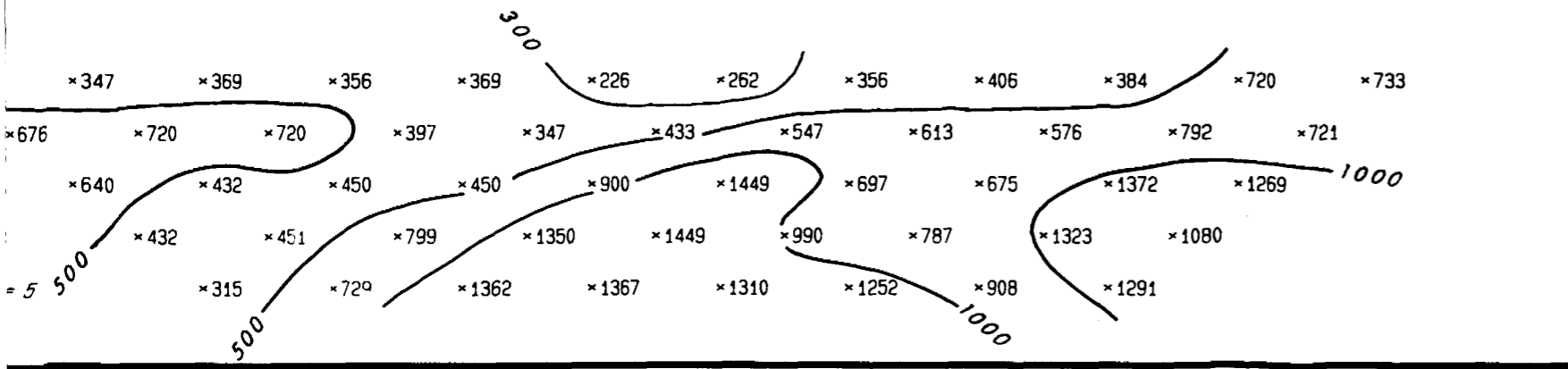
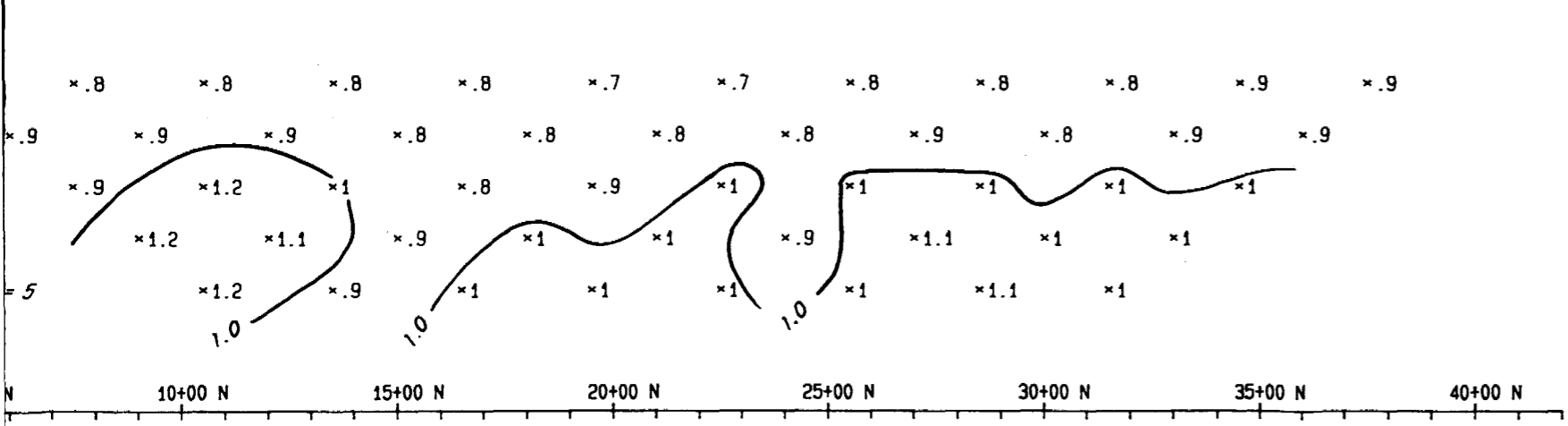
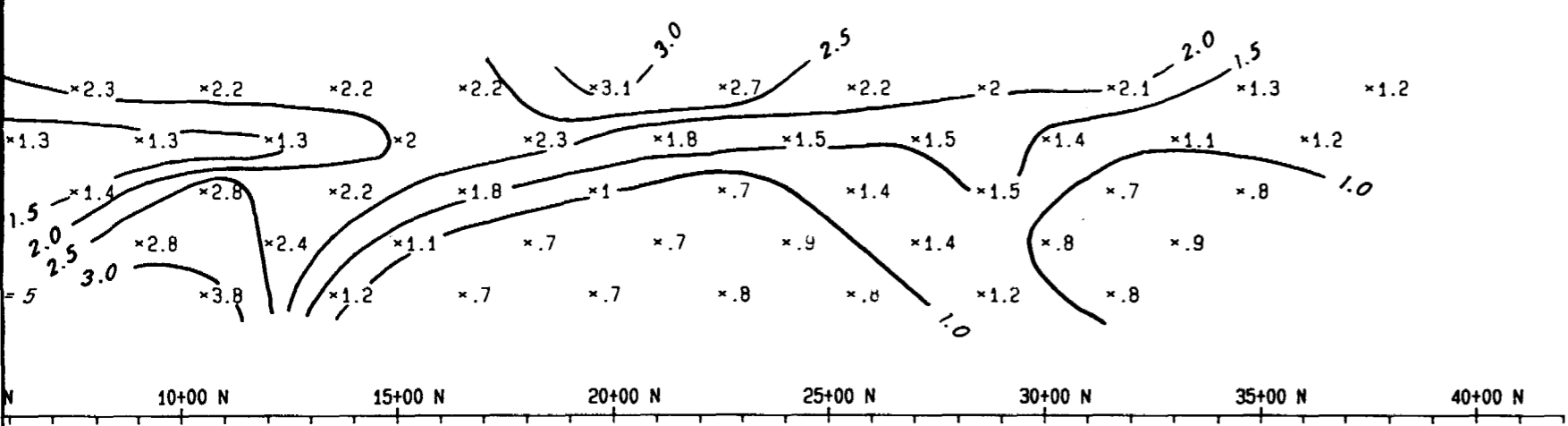
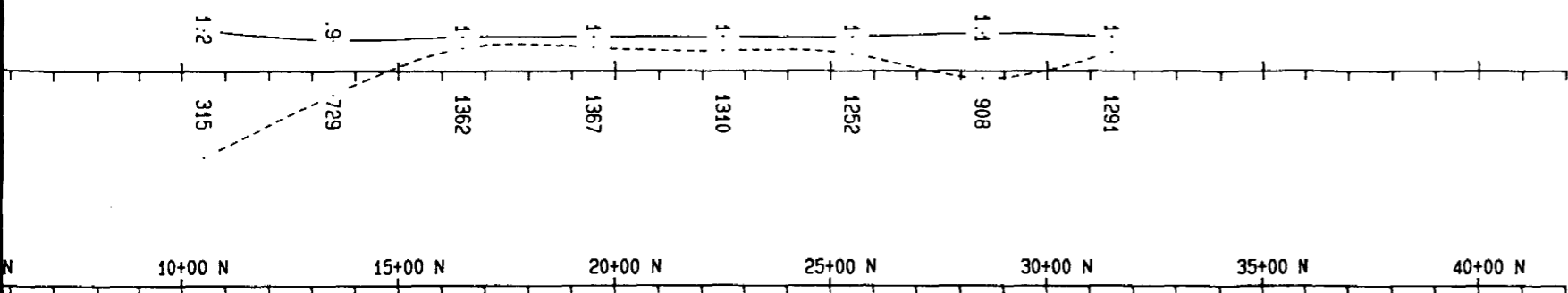
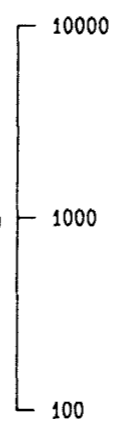
L-68+00 E
METAL FACTOR
(Ef/Res. * 1000%)

L-68+00 E
FREQUENCY EFFECT

L-68+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)



1 in. : 1 cycle



FALCONBRIDGE LIMITED

GUIBORD TOWNSHIP

INDUCED POLARIZATION SURVEY

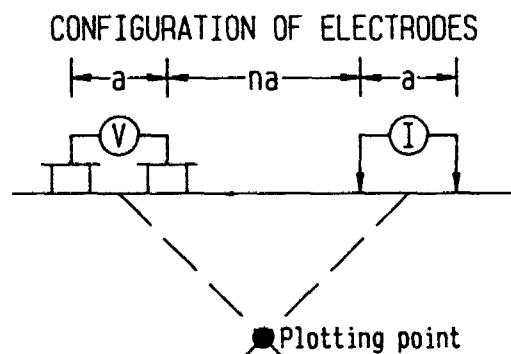
Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet

Separation between dipole : n = 1, 2, 3, 4, 5



Operators: G. Beier

L-72+00 E

63,4487

BY : GÉOLA LTÉE

EXECUTED BY : G. Beier July 1984

INTERPRETED BY :

DRAWN BY : J. Proulx, Tech. August 1984

N.T.S.: 42A/B PLAN NO : 84-976-12

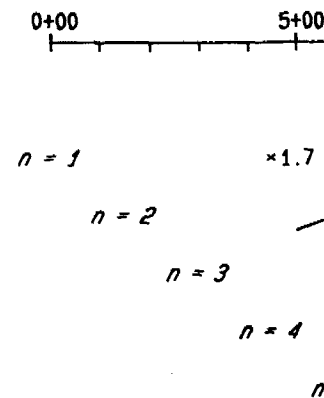
PN-693
Guibord twp., Ontario
Scale : 1" = 400'
0 200 400 600 800

L-72+00 E
5th SEP.

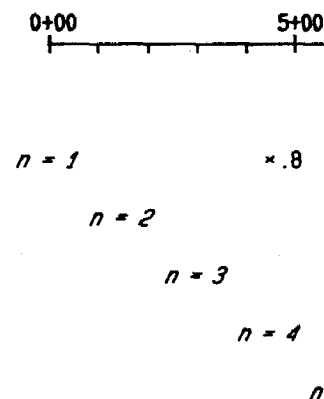
1 in. = 5%



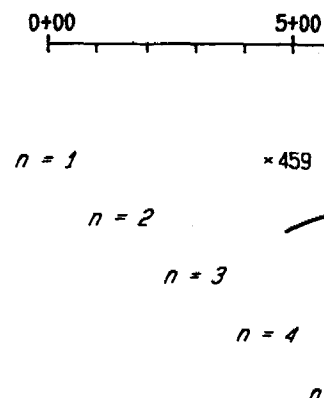
L-72+00 E
METAL FACTOR
(Ef/Res. * 1000%)



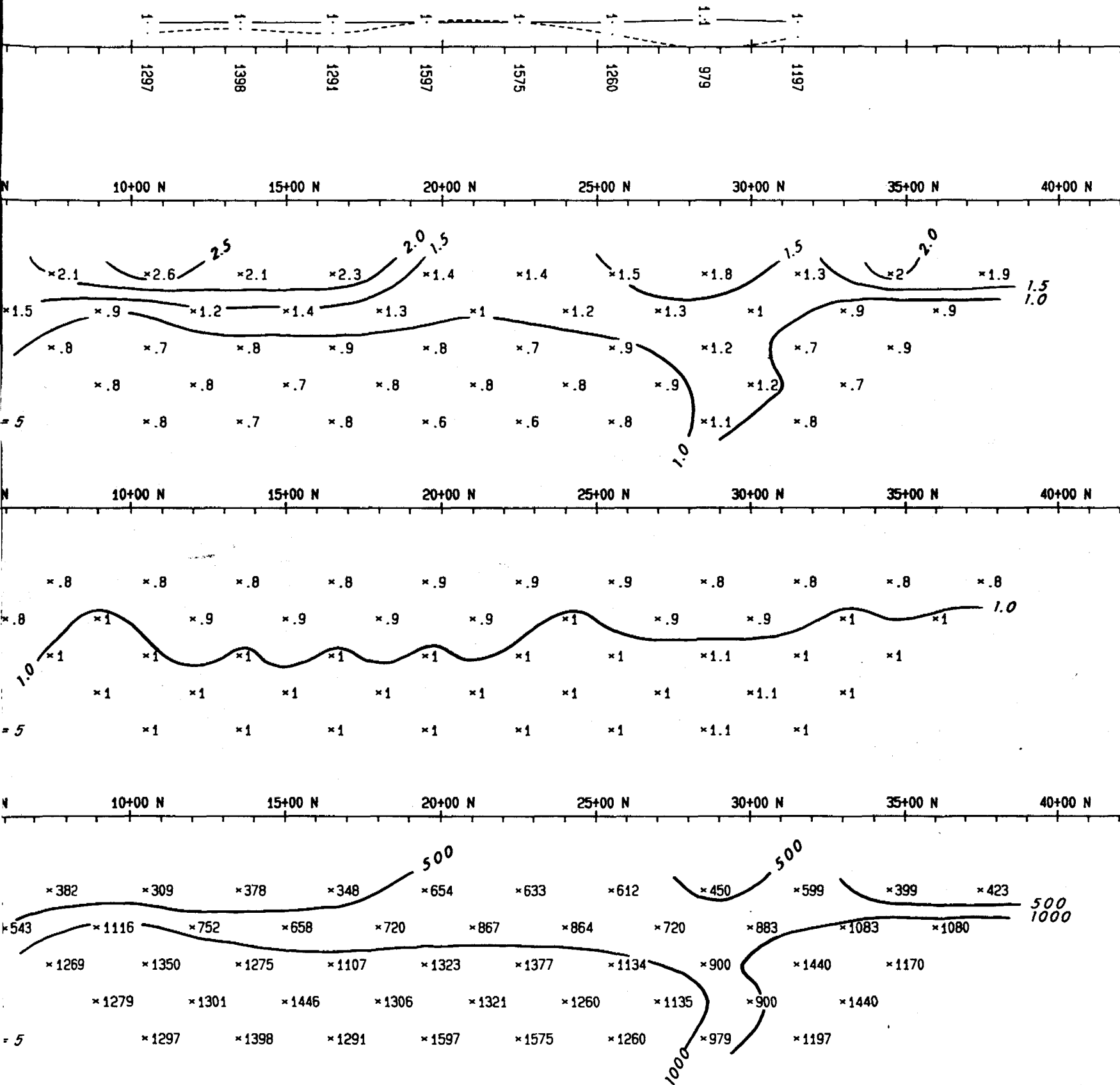
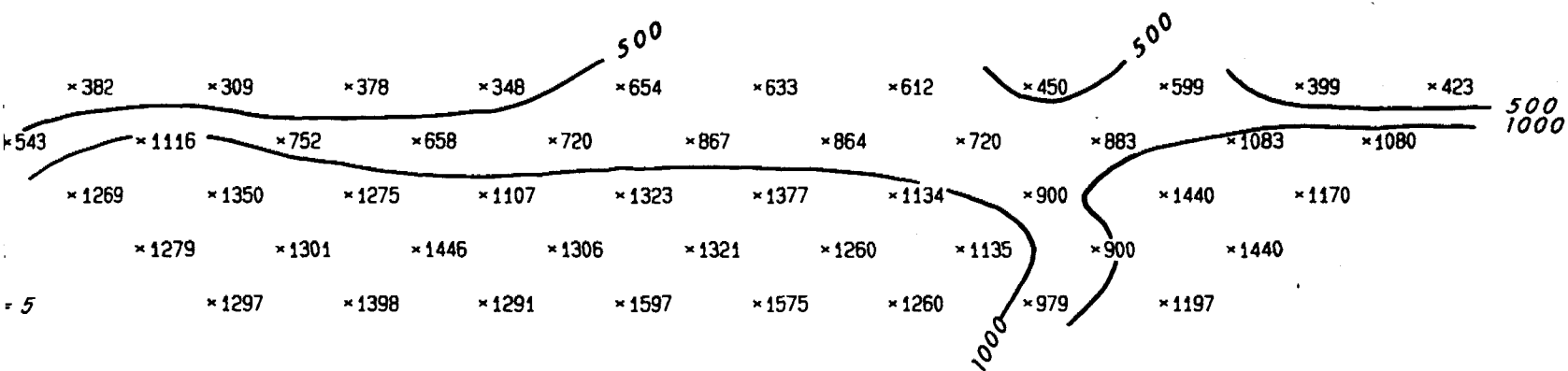
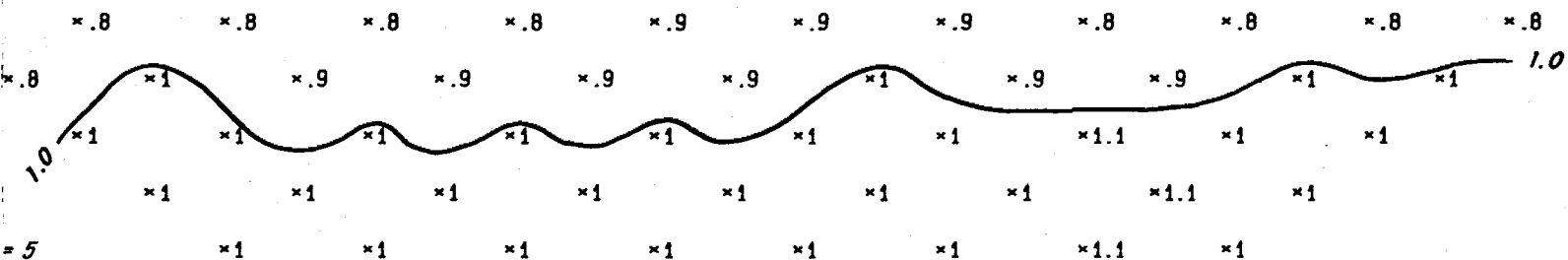
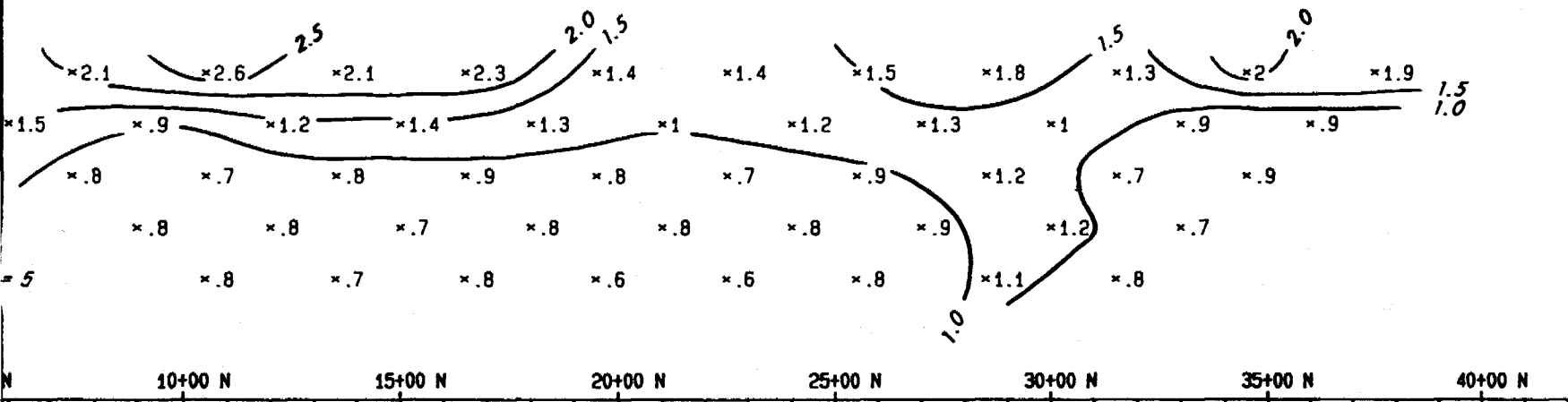
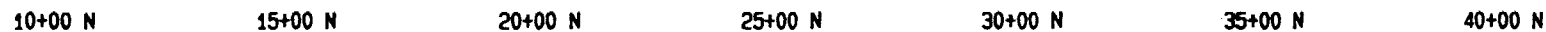
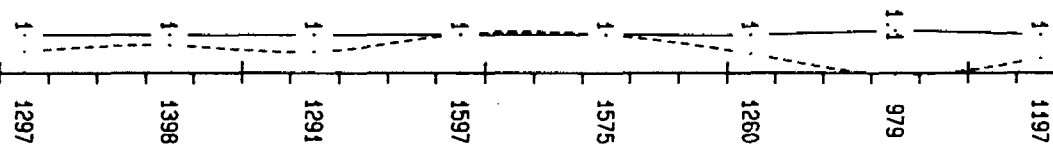
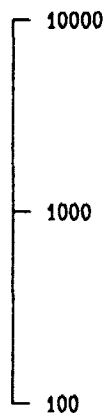
L-72+00 E
FREQUENCY EFFECT



L-72+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)



1 in. : 1 cycle



500

1000

FALCONBRIDGE LIMITED

GUIBORD TOWNSHIP

INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

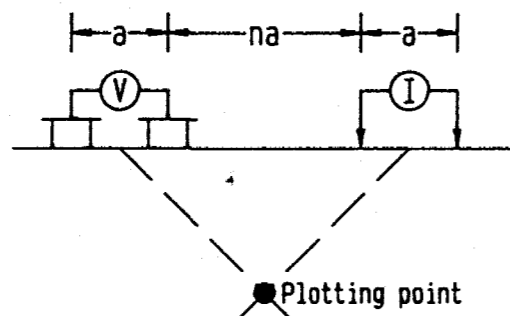
Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet

Separation between dipole : n = 1, 2, 3, 4, 5

CONFIGURATION OF ELECTRODES



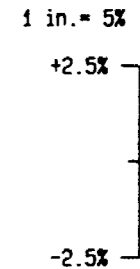
Operators: G. Beier

L-76+00 E

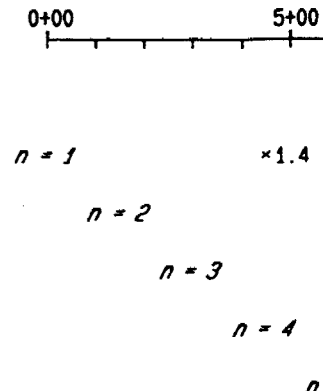
63,4487

BY :		GÉOLA LTÉE	
EXECUTED BY :	G. Beier	July 1984	PN-693 Guibord tmp., Ontario Scale : 1" = 400'
INTERPRETED BY :			
DRAWN BY :	J. Proulx, Tech.	August 1984	
N.T.S.:	42A/B	PLAN NO : 84-976-13	

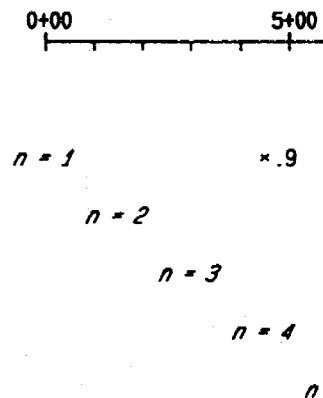
L-76+00 E
5th SEP.



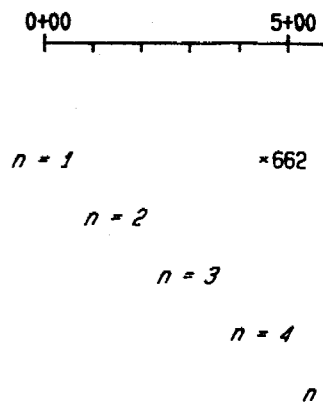
L-76+00 E
METAL FACTOR
(Ef/Res. * 1000%)



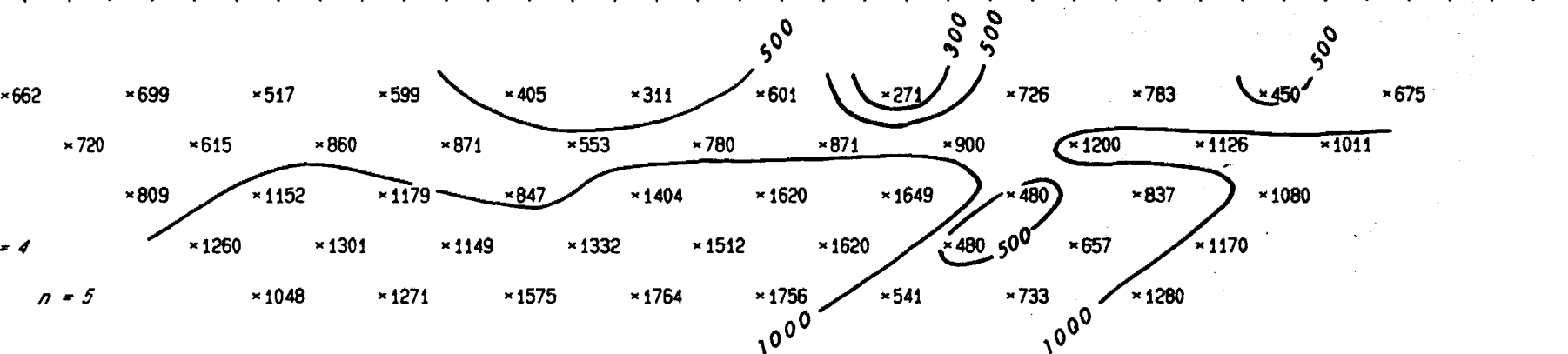
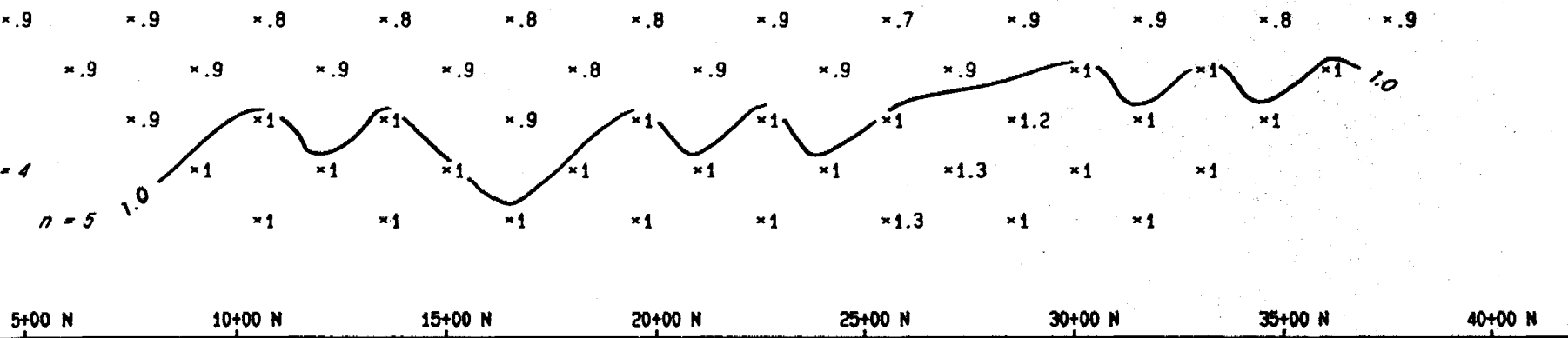
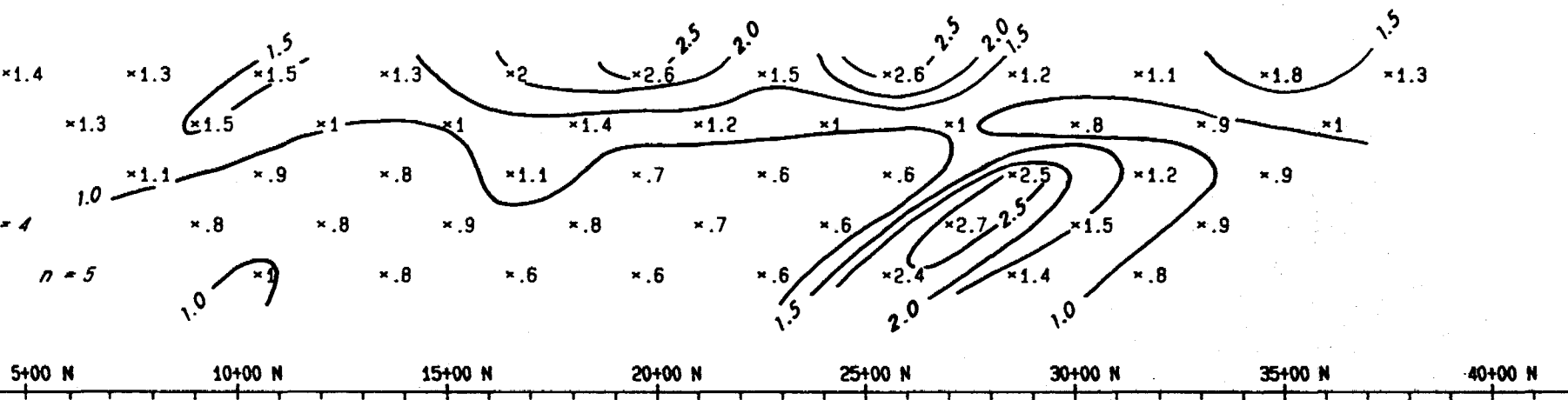
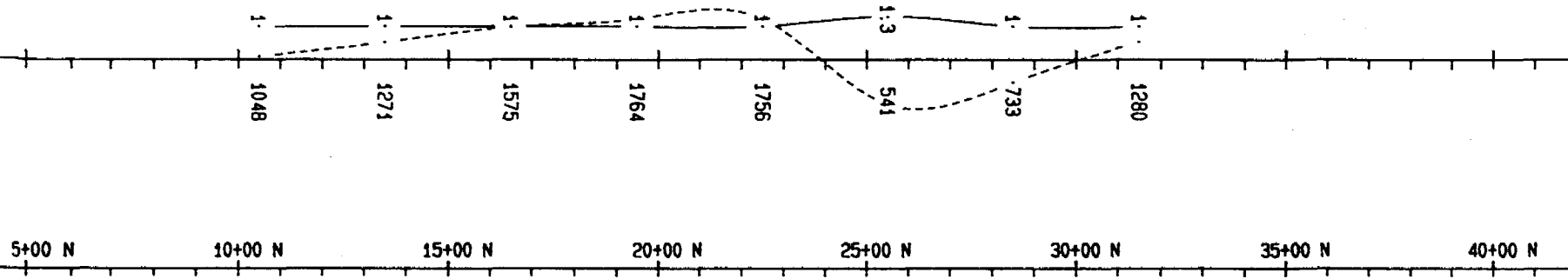
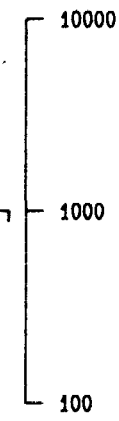
L-76+00 E
FREQUENCY EFFECT



L-76+00 E
RESISTIVITY
(Pa/2π, Ohm-metres)

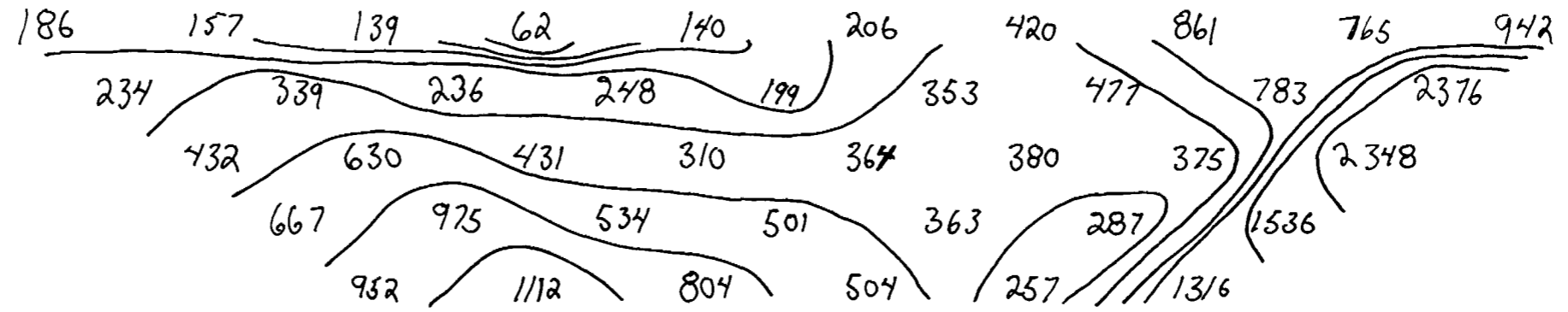


1 in. : 1 cycle

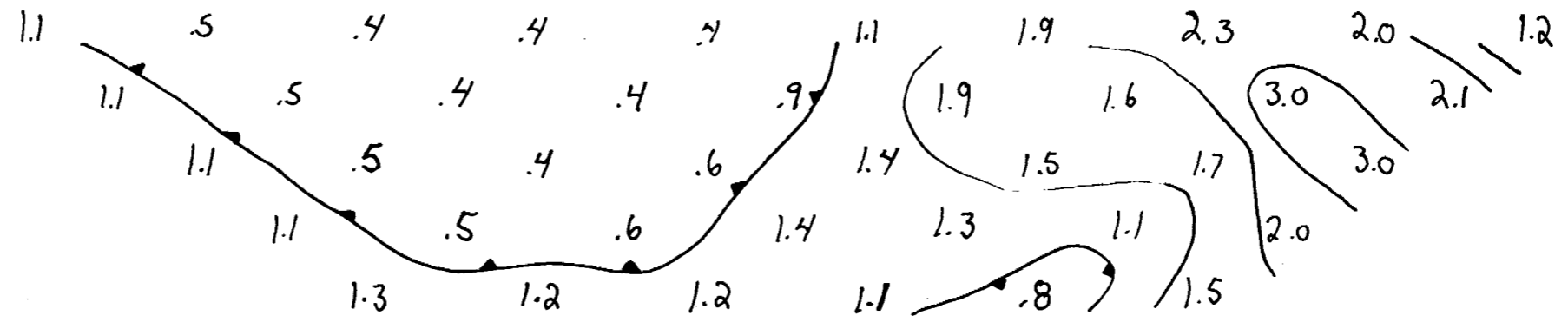


6N 9N 12N 15N 18N 21N 24N 27N 30N 33N 36N 39N 42N

RESISTIVITY (APP)

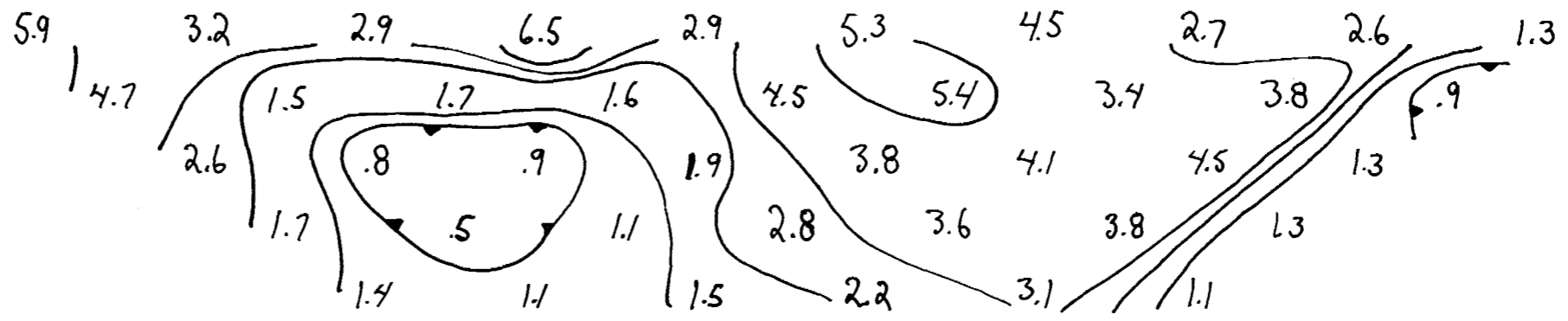


FREQUENCY EFFECT (



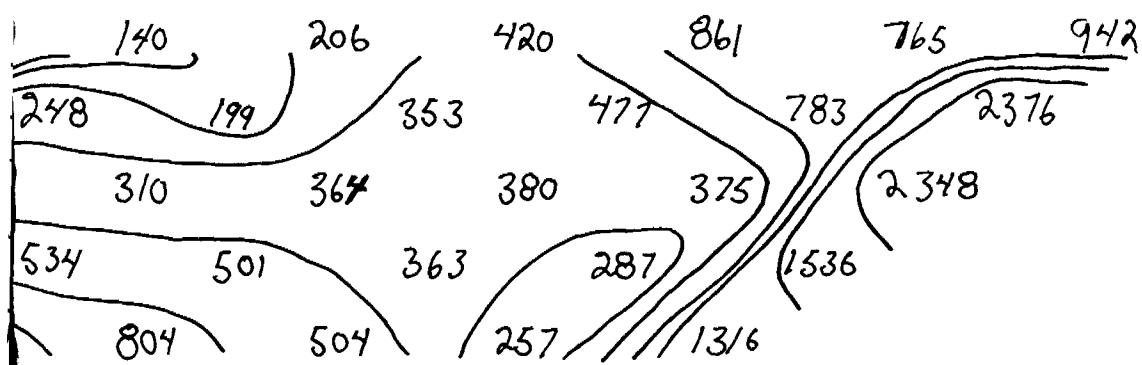
6N 9N 12N 15N 18N 21N 24N 27N 30N 33N 36N 39N 42N

METAL FACTOR (APP)



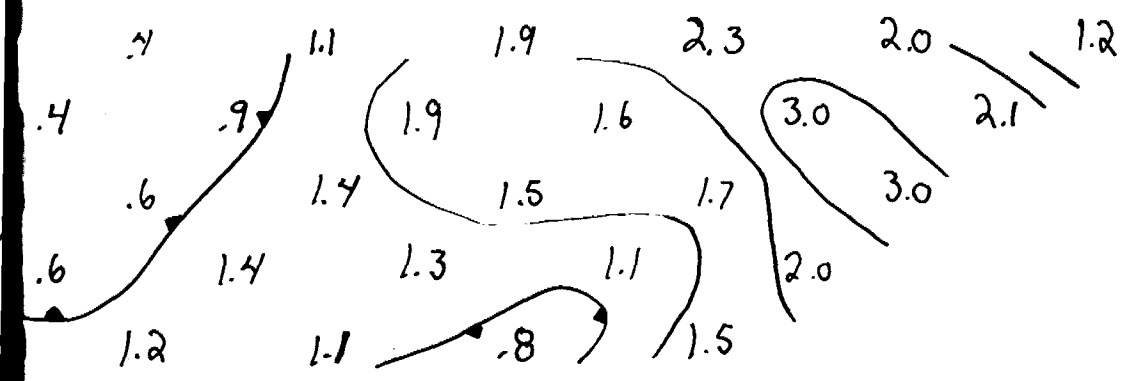
BUSH ROAD

RESISTIVITY APP. IN OHM FEET



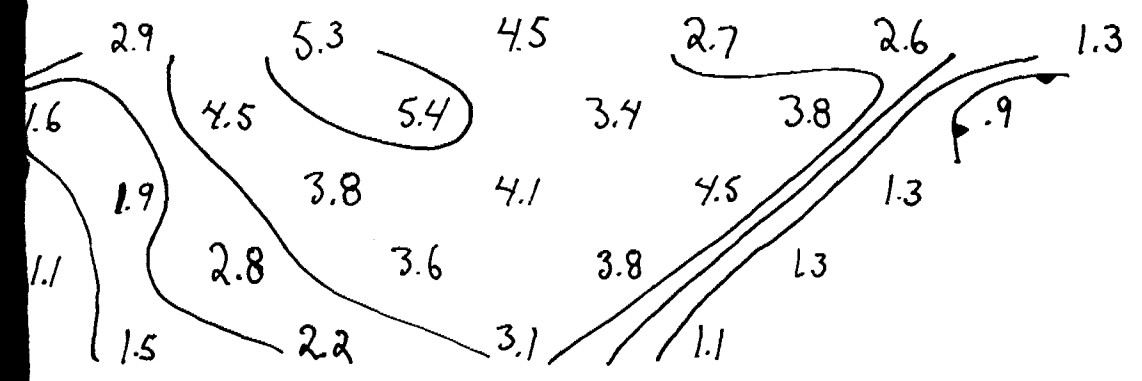
N=1
N=2
N=3
N=4
N=5

FREQUENCY EFFECT (APP) IN %



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

METAL FACTOR (APP)



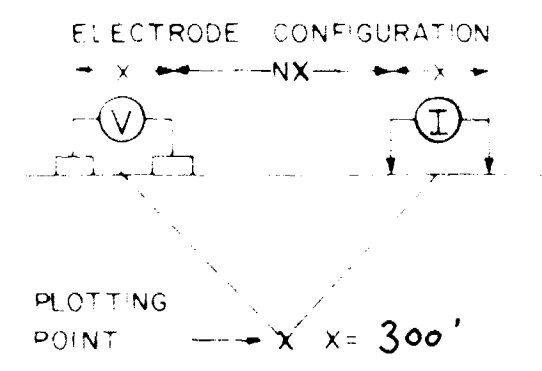
N=1
N=2
N=3
N=4
N=5

COMPANY: FALCONBRIDGE LTD

PROPERTY: GUIBOARD PN 693

PERRY LAKE MATHESON ONTARIO

LINE NO - 78E



SURFACE PROJECTION OF ANOMALOUS ZONES

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

FREQUENCIES: 25 & 4.0 HZ

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

INSTRUMENT: PHOENIX IPIV I IPT I

CONTRACTOR: REMY BELANGER ENRG.

DATE SURVEYED: _____ APPROVED: _____

August - 19 - 1984

OPERATOR: GUY GELINAS

DATE: 63,4467

INDUCED POLARIZATION AND RESISTIVITY SURVEY

FALCONBRIDGE LIMITED

GUIBORD TOWNSHIP

INDUCED POLARIZATION SURVEY

Method : DIPOLE-DIPOLE
FREQUENCY DOMAIN

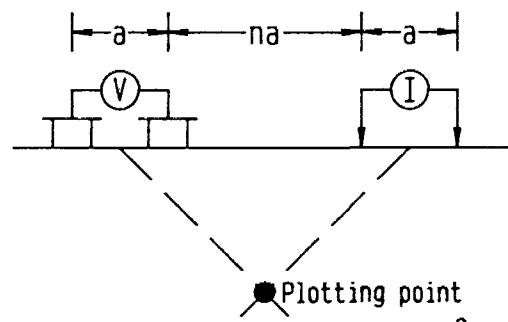
Instruments: I.P. TRANSMITTER : McPHAR 1968, 5A, 840V.
I.P. RECEIVER : McPHAR P660

Frequency : 5 Hz. & .30 Hz.

Separation of electrodes : a = 300 feet

Separation between dipole : n = 1, 2, 3, 4, 5

CONFIGURATION OF ELECTRODES



Operators: G. Beier

L-80+00 E

63.4487

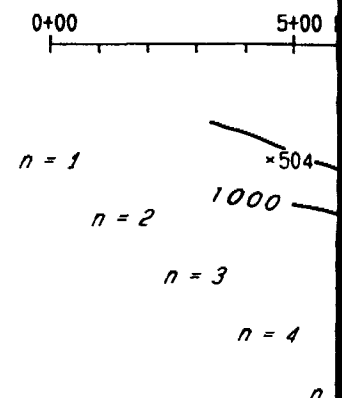
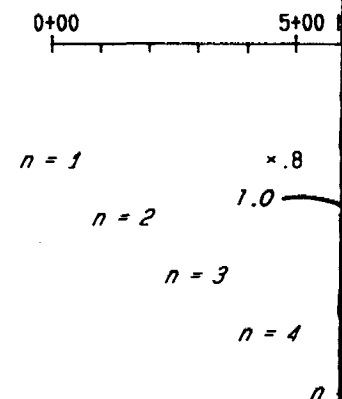
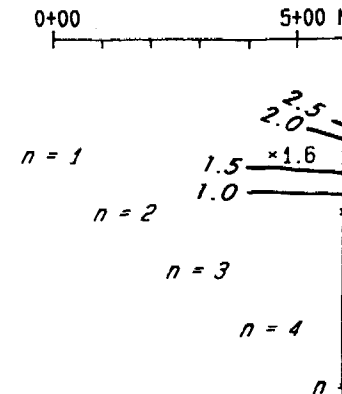
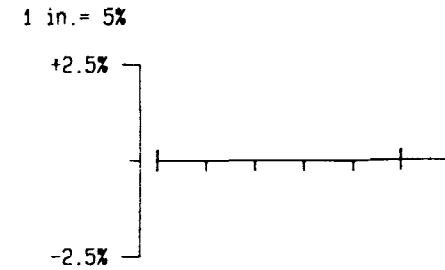
BY :		GÉOLA LTÉE	
EXECUTED BY :	G. Beier	July 1984	PN-693
INTERPRETED BY :			Guibord twp., Ontario
DRAWN BY :	J. Proulx, Tech.	August 1984	Scale : 1" = 400'
N.T.S.:	42A/B	PLAN NO : 84-976-14	0' 200' 400' 600' 800'

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5th SEP.

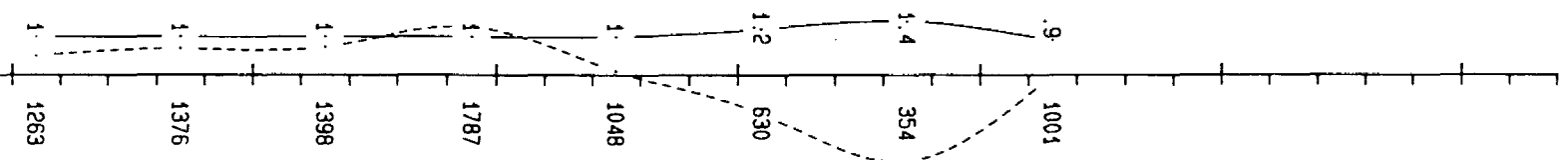
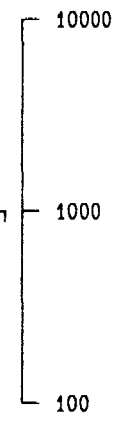
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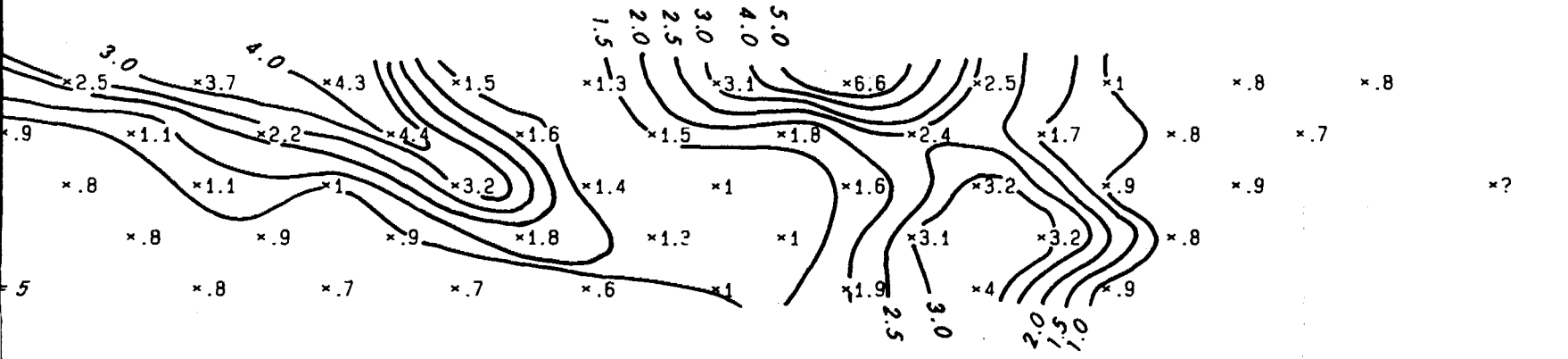
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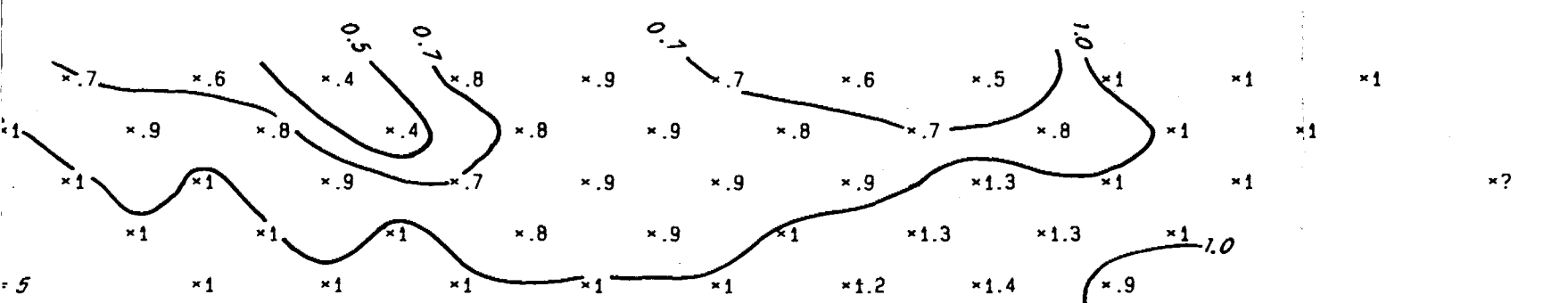
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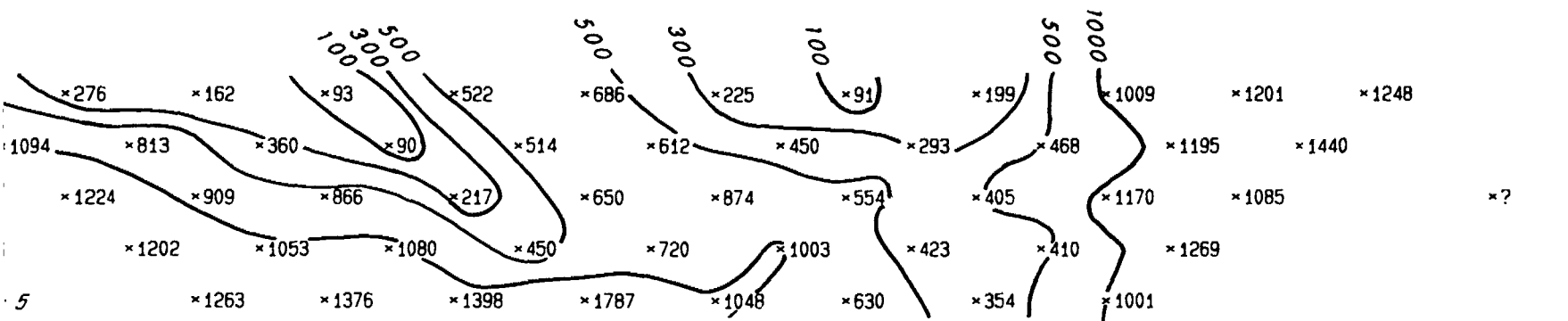
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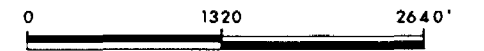
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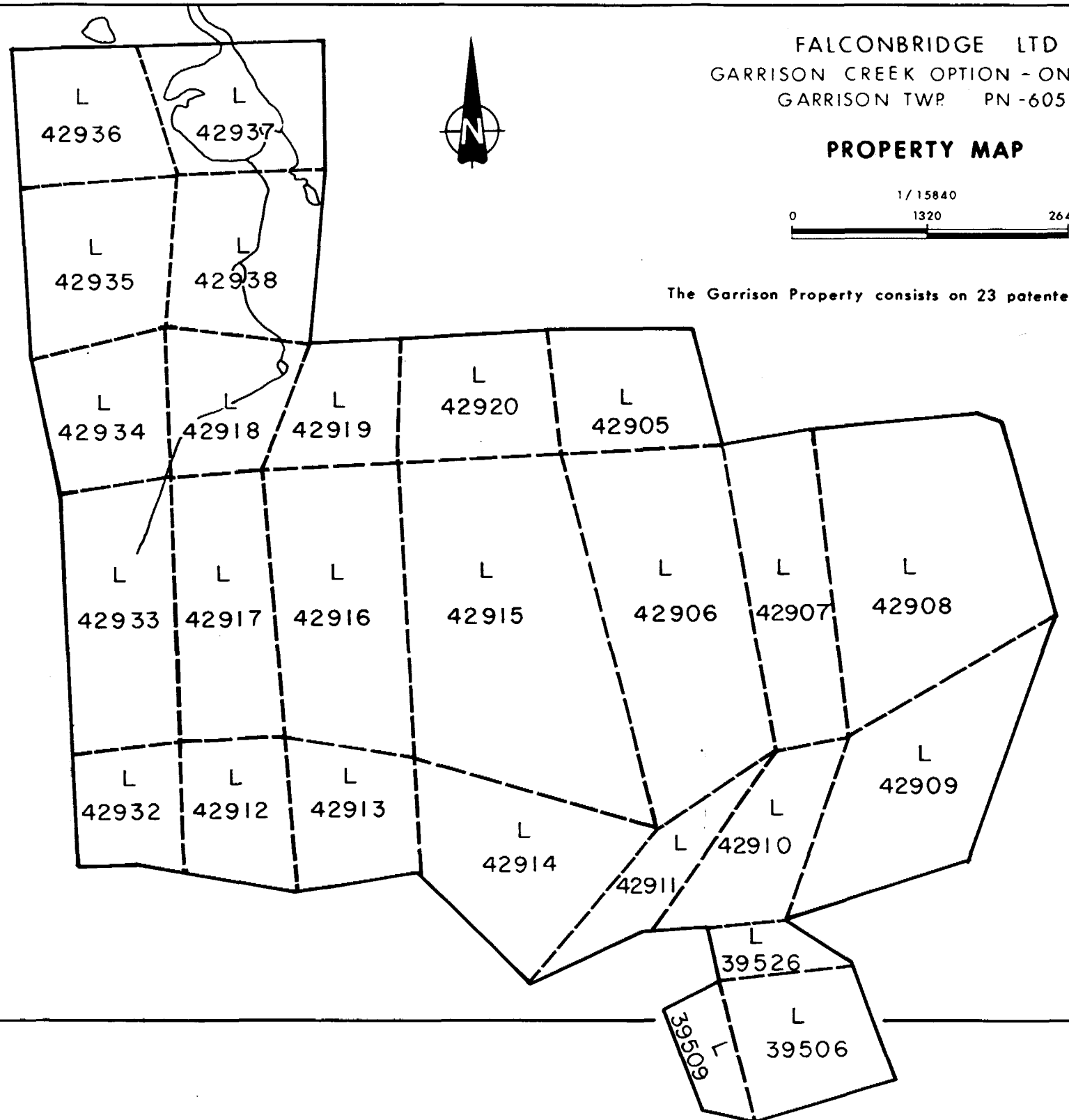
FALCONBRIDGE LTD
GARRISON CREEK OPTION - ONTARIO
GARRISON TWP. PN-605

PROPERTY MAP

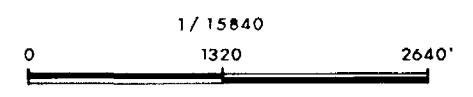
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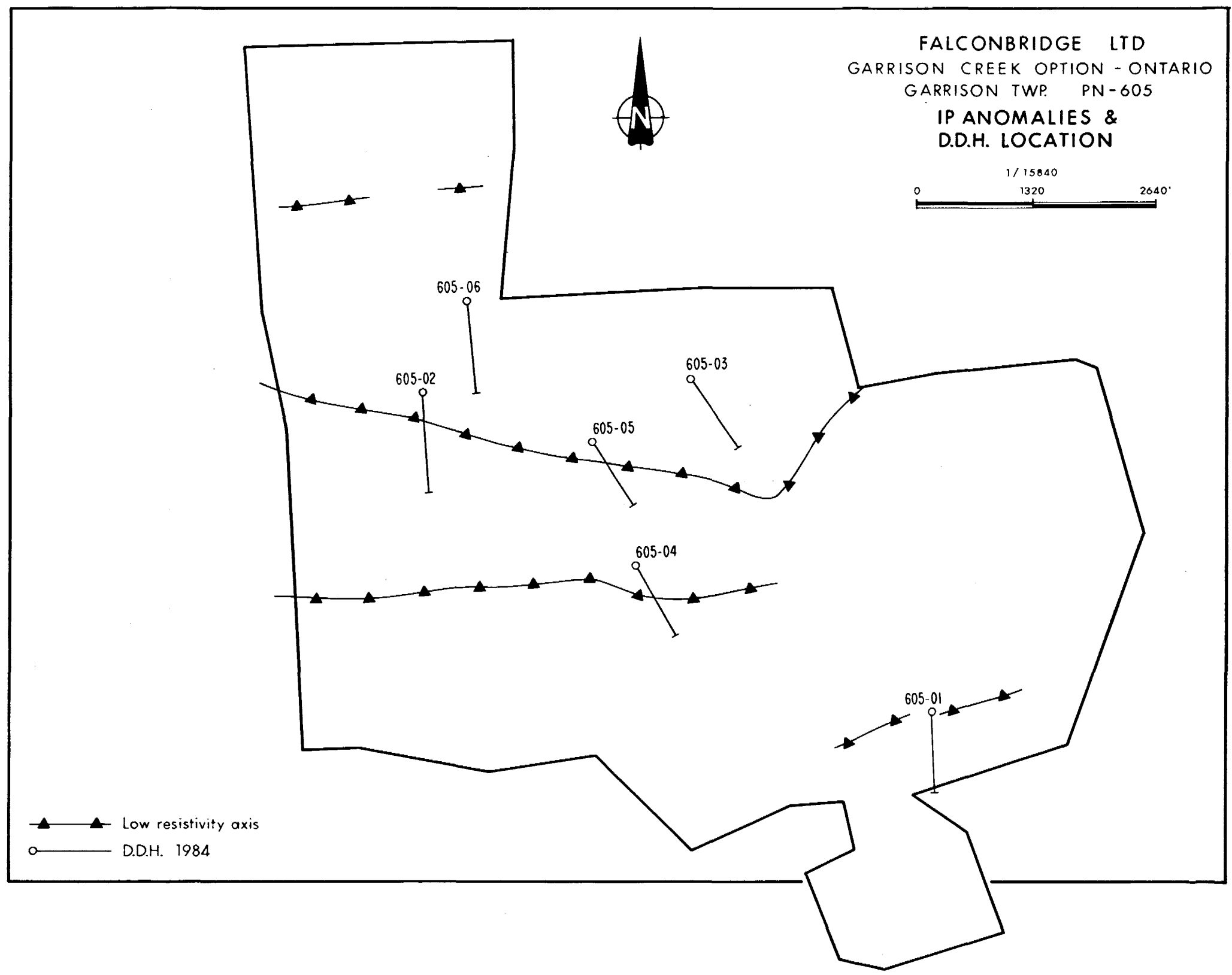
The Garrison Property consists on 23 patented claims.



FALCONBRIDGE LTD
GARRISON CREEK OPTION - ONTARIO
GARRISON TWP. PN-605
IP ANOMALIES &
D.D.H. LOCATION



▲ —▲ Low resistivity axis
○ — D.D.H. 1984

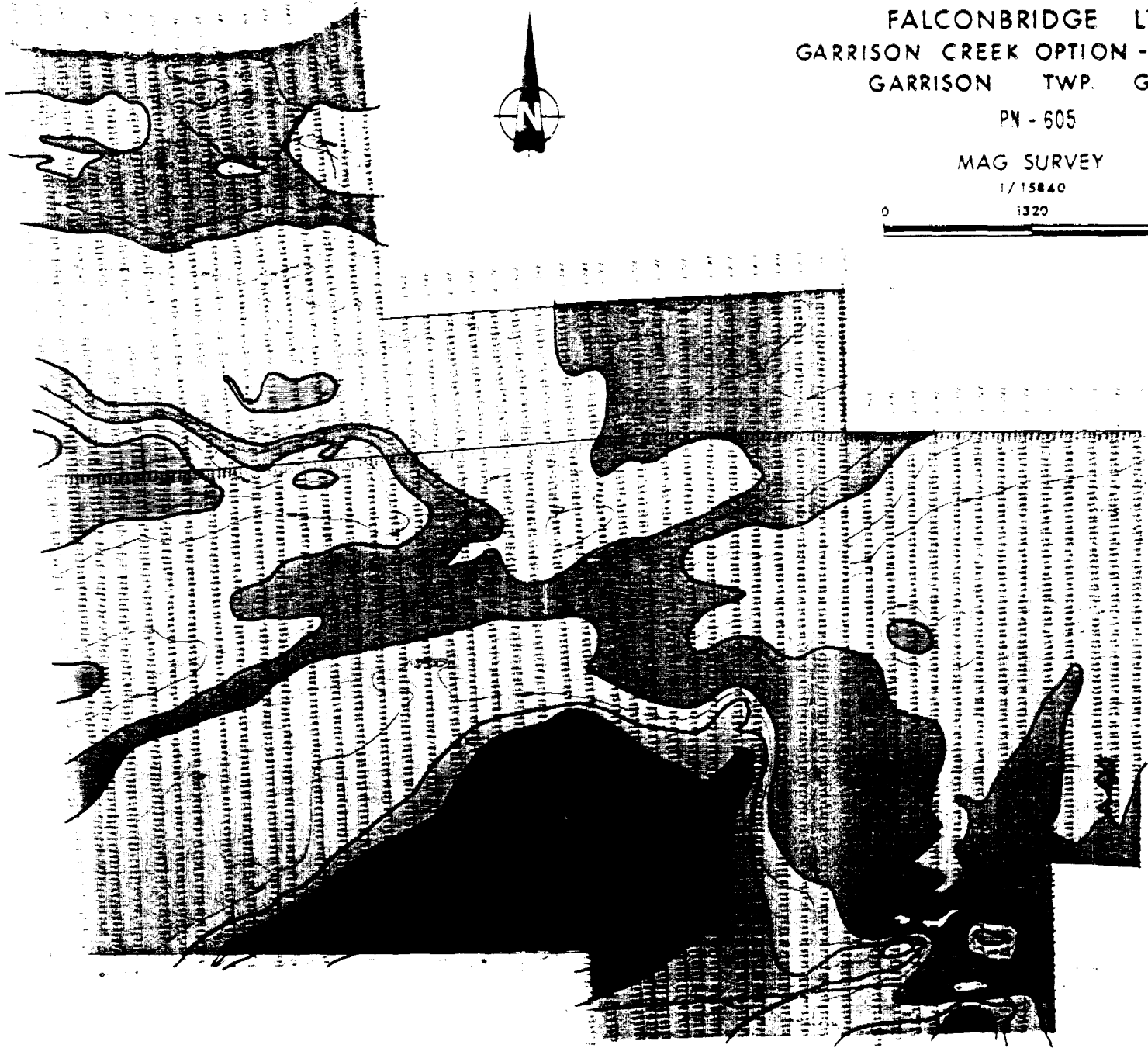
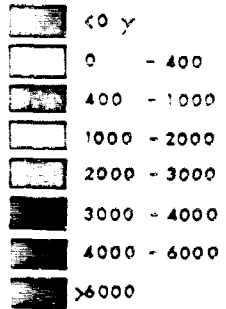
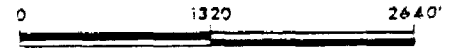


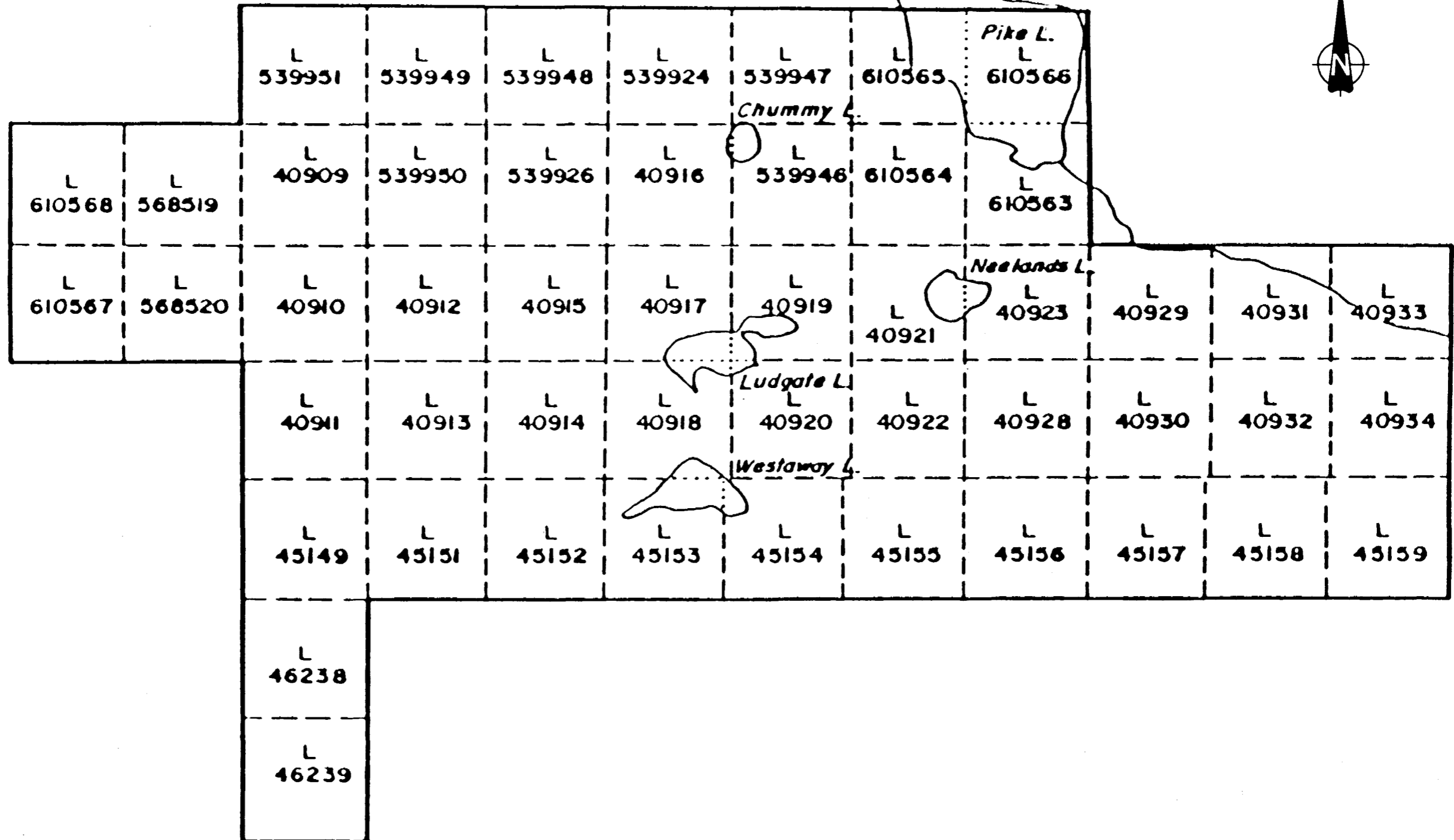
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GARRISON CREEK OPTION - ONTARIO
GARRISON TWP. GRID

PN - 605

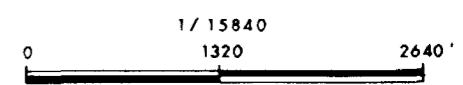
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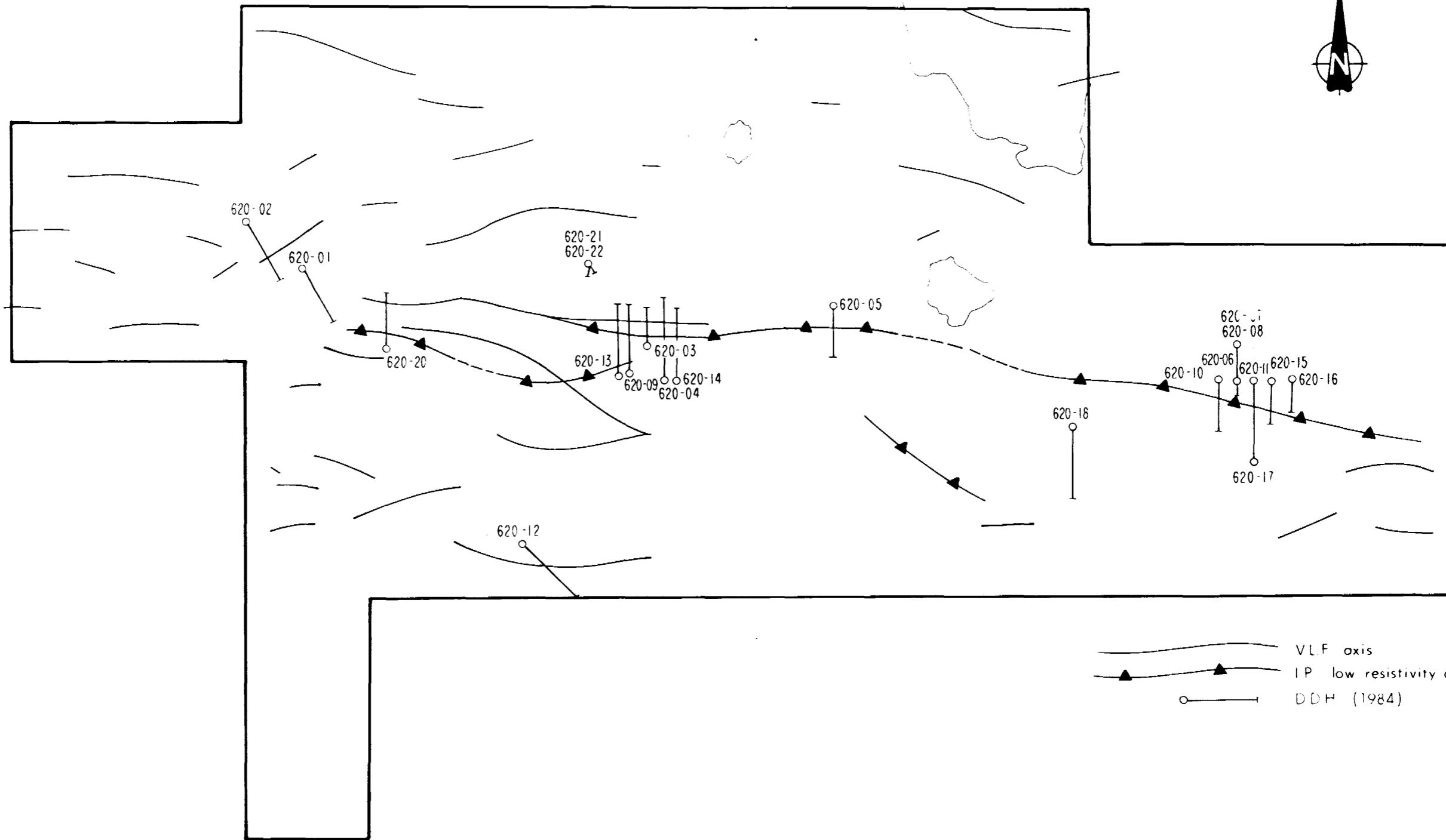
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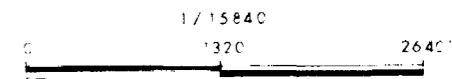
FALCONBRIDGE LTD
 GARRISON CREEK OPTION - ONTARIO
 MICHAUD TWP. PN-620
 PROPERTY MAP

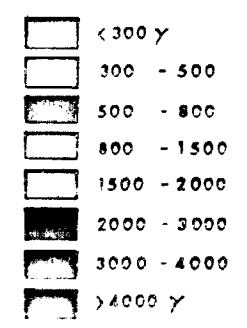
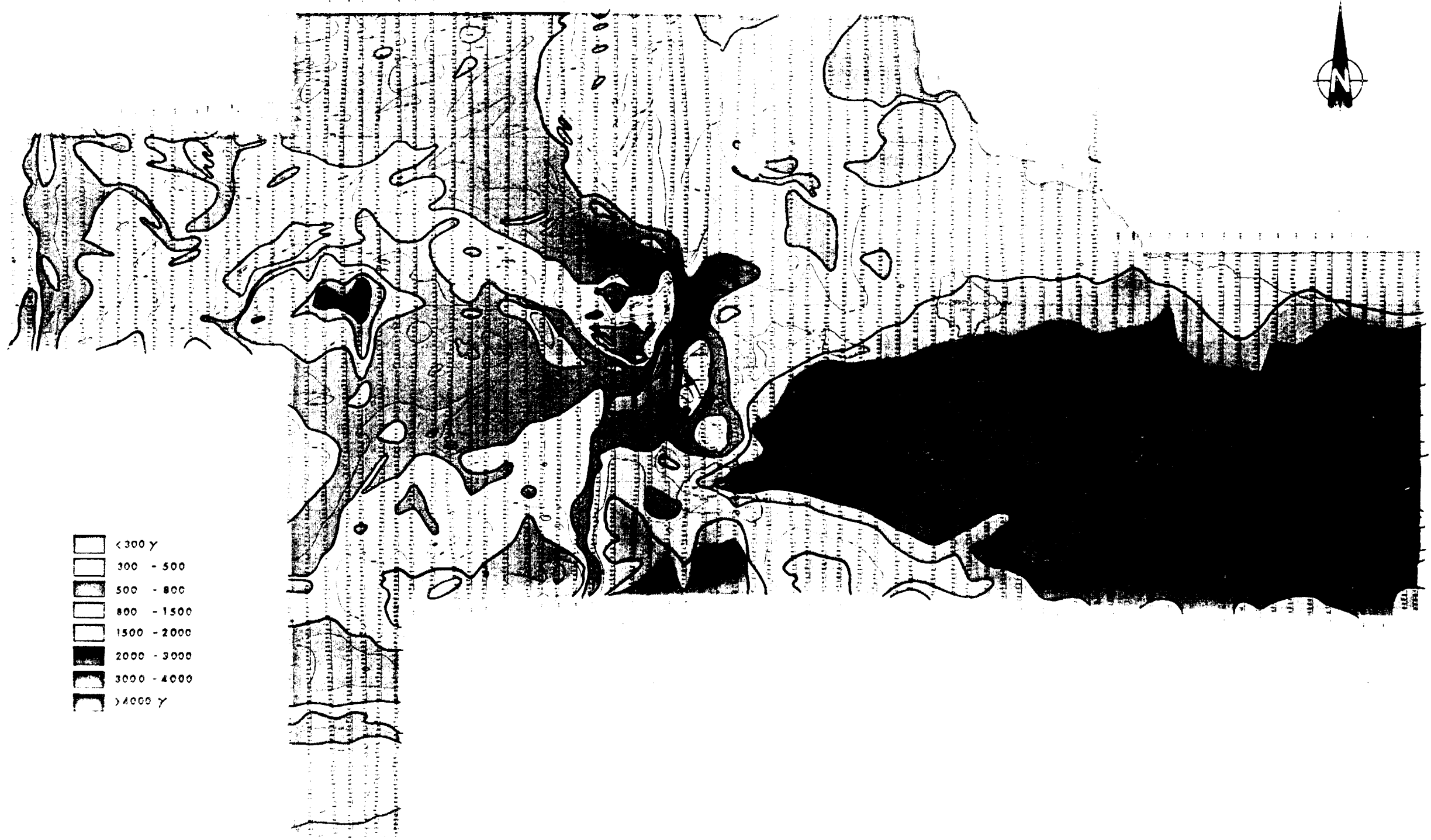




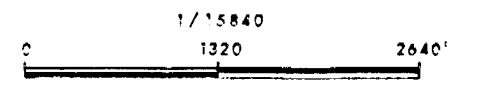
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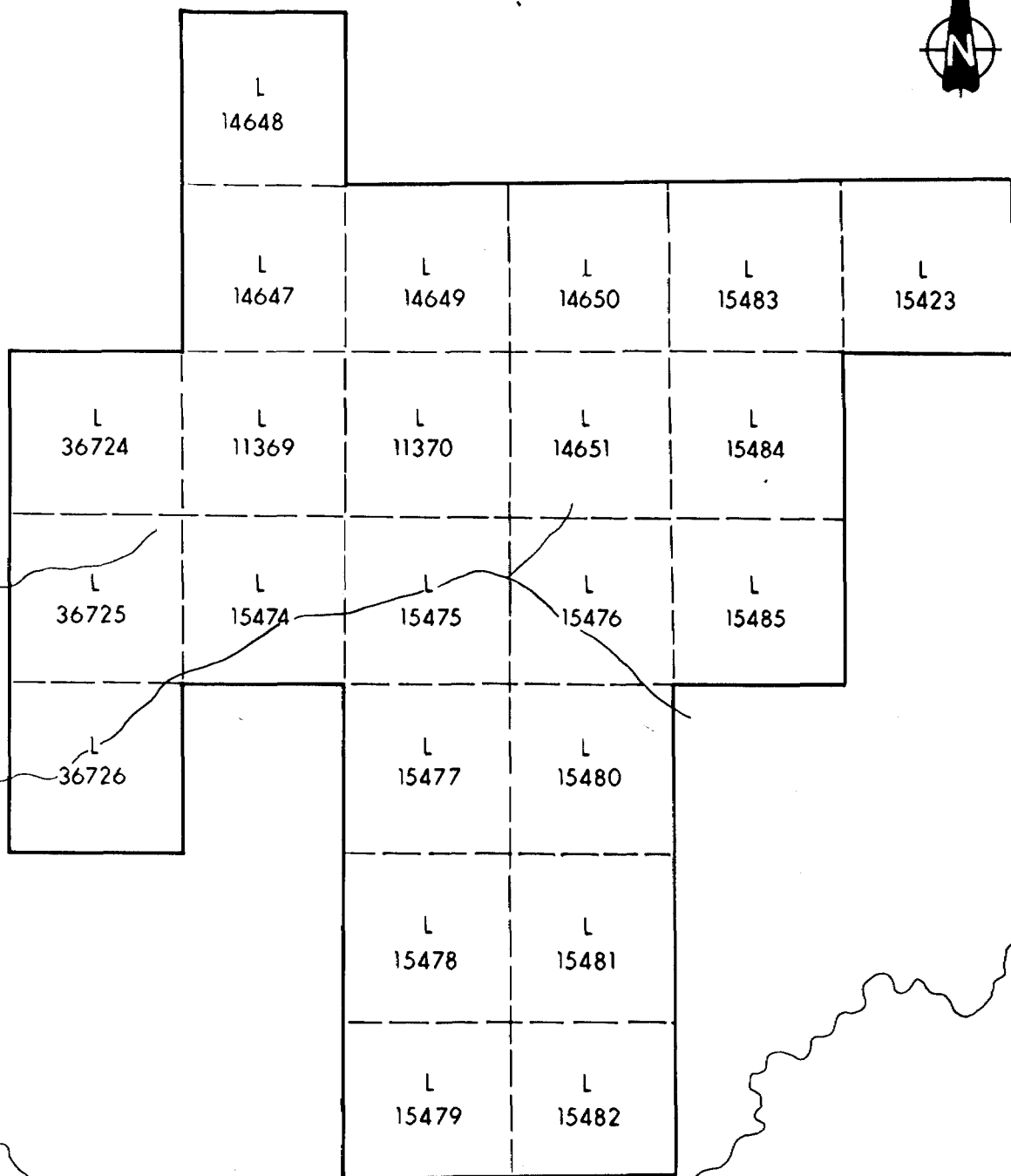
FALCONBRIDGE LTD
GARRISON CREEK OPTION - ONTARIO
MICHAUD TWP. PN - 620
I.P. & V.L.F ANOMALIES
& D.D.H. LOCATION





FALCONBRIDGE LTD
GARRISON CREEK OPTION - ONTARIO
MICHAUD TWP. GRID
PN - 620
MAG SURVEY

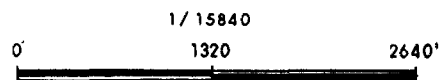


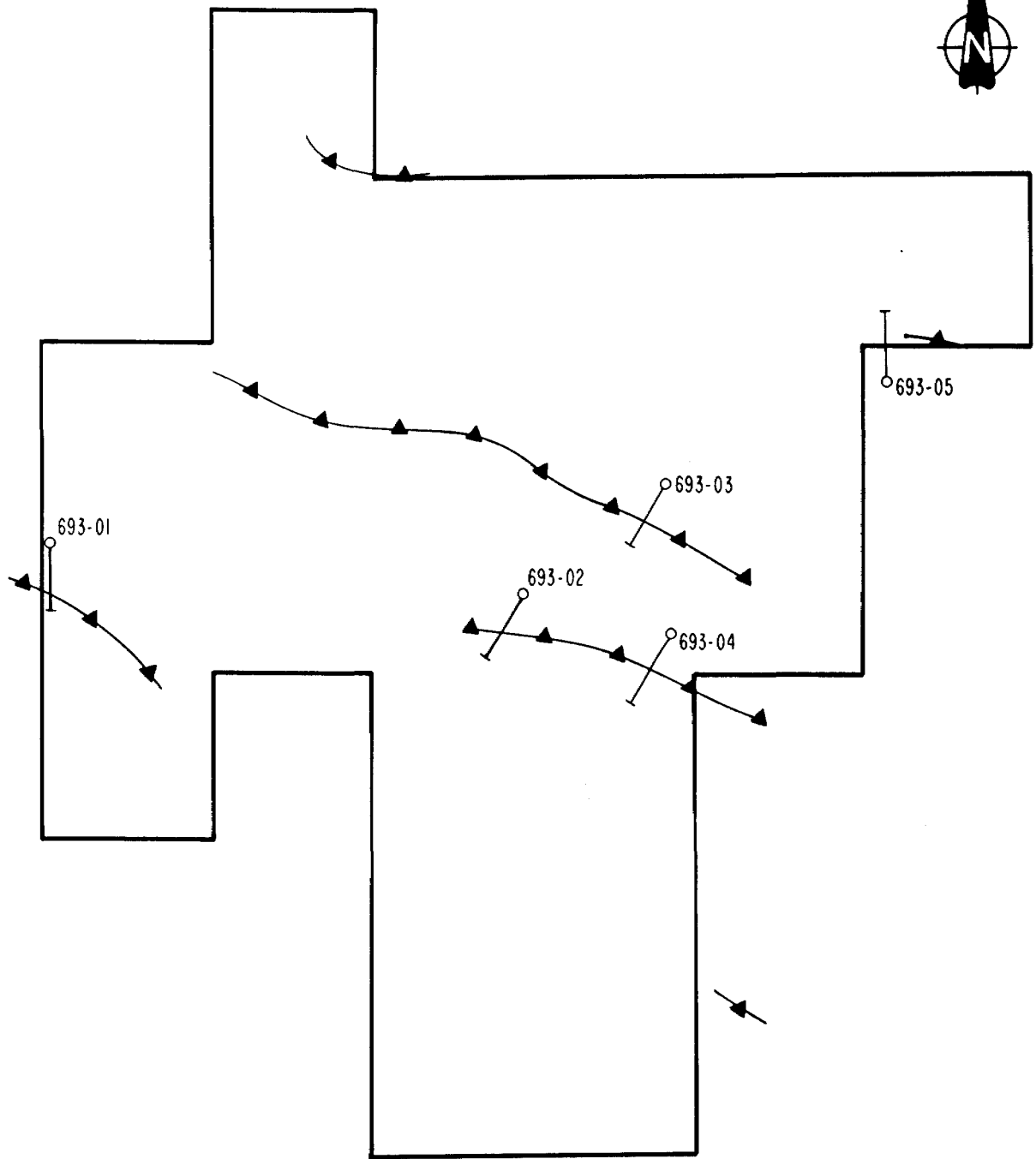


FALCONBRIDGE LTD
GARRISON CREEK OPTION - ONTARIO
GUIBORD TWP. PN-693

PROPERTY MAP

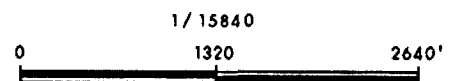
NOTE: The Guibord property consists
on 23 patented claims.





▲ — ▲ Low resistivity axis
○ — D.D.H. 1984

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GARRISON CREEK OPTION - ONTARIO
GUIBORD TWP. PN-693
IP ANOMALIES &
D.D.H. LOCATION



5. DIAMOND DRILLING, SUMMARY LOGS & FINDINGS

In 1984, 33 AQ wireline diamond drill holes and the "NW Ludgate Trench" overburden stripping were completed on the Garrison Creek C.M.L. properties.

The description of these holes are presented at two places as follow: their complete logs and assays are bound in Volume 3 while the present chapter holds their summary logs. In Appendix, one finds the geochemical gold profiles shown next to the corresponding vertical sections of each hole.

Moreover, 5 of these holes (namely, 620-03, 04, 09, 13 & 14) and the trench are treated in a separate report, by Magloire Bérubé, Eng., which covers the Ludgate Lake Gold Zone and in which the holes have been drawn on sections at 1:400 and incorporated into a gold inventory calculation.

For completeness sake, the trench maps are available in Volume 2.

A short bedrock and mineralization summary, with a note on the target sought and the findings, is given hereunder for each one of the 33 diamond drill holes. They are regrouped according to their property number. Each hole summary should be read with the corresponding vertical section unfolded to the right.

5.a) Garrison Option "Garrison Twp." (PN-605)

A total of 8,715 feet of diamond drilling in 6 holes.

— Hole 605-01

(40+00S, 94+00E, 180°/-60°; in bedrock 94' → 1106')

To 818', reddish porphyritic syenite containing 10-25% quartz stringers locally (and holding 0.02 oz/ton Au over two 5' intersections). High silver found in local minor galena. Below 818', abundant volcanic rocks intruded by some gabbro and by some porphyritic syenite as well as cut by a 30' and a 50' intrusive breccia intervals; the volcanic rocks are locally skarnized (sometimes with very local gold enrichment).

This hole was set adjacent to a magnetic low and to an I.P. weak low resistivity, both of which are explained by the syenite/volcanic rocks contact (somewhat vuggy).

— Hole 605-02

(0+50N, 38+00E; 180°/-60°; in bedrock 202 → 1506')

Sequence of dacite-basalts, locally with tuffaceous metasediments and occasional porphyritic felsite, interlayered with gabbros (230' near the hole upper third and 160' close to and at its bottom); carbonate veinlets frequent. Local pyrite getting over 1% in places. Low gold values (0.004 to 0.04 oz/ton Au) are found in gabbro, adjacent to tuffaceous metasediments and porphyritic felsite; one erratic in gabbro reads 0.42 oz/ton over 3.0 feet.

This hole was set to cross an I.P. metal factor of 8.5 (mostly caused by a low resistivity); the lost water and seams reported by drillers near 665, 936, 1072 and 1240', the brecciated zones near 1022 and 1375' and the 15' of lost core between 996 and 1258' explain that anomaly. The magnetic high is linked to the volcanic rocks.

— Hole 605-03

(1+00S, 68+00E; 150°/-60°; in bedrock 240 → 1642')

Except for a 35' porphyry at upper end and an 80' trachyte near the lower end, all the hole consists of 900' of alteration zone, with outstanding bleached colors, strongly carbonatized, and enclosed in chlorite schist holding some andesite intersections. Bedding is close to vertical; schistosity is somewhat variable.

Assaying revealed a widespread occurrence of 0.005 to 0.02 oz/ton Au (which corresponds well with the gold geochemistry profile 50 to 200 ppb range); some 0.03 oz/ton Au are found near the alteration zone lower contact; one 0.17 oz/ton Au over 1.7' was found within a green mica schist of the alteration zone, associated with 80% quartz and 10% pyrite and lying some 6' above a thin band of iron formation, itself holding 10 to 20% pyrite and assaying 0.02 oz/ton Au over 2.5'.

This hole was drilled to have a look at rock types and to test for the eastern extension of the Garrison property known mineralized zone. That alteration zone possibly spreads to the north; it remains open to the east. IT IS CONSIDERED THE LOCUS OF THE DESTOR-PORCUPINE FAULT ZONE.

— Hole 605-04

(21+50S, 60+20E; 155°/-58°; in bedrock 168 → 1621')

Same rock type all through, except for 25' of feldspar porphyry near upper end: fine-grained, dark grey, ferruginous metasediments (magnetite and pyrite-bearing). Homogeneous and hornfels-looking; including locally very siliceous portions, also limestone layers; frequent calcite veinlets and narrow fractured portions (often a little vuggy). Practically no geochemical gold signal (the assays reaching locally 0.02 & 0.03 oz/ton Au over 5 feet would correspond to very narrow horizons!).

This hole was set through an I.P. low resistivity, a magnetic high suspected due to an iron formation, and close to a northwest-trending lineament corresponding to an abrupt change in the magnetometric contours and suggesting a contact.

The low resistivity may be due to the vugginess accompanying several carbonate veinlets (probably more porous near the bedrock surface); the magnetic high is well explained by the strong magnetic susceptibility of the 1360 to 1454' core intersection and the generalized magnetic character of most of the core; the presence of a contact nearby was not confirmed although its suggestion is reinforced by the hornfels appearance of the ferruginous metasediments.

— Hole 605-05

(7+10S; 56+50E; 150°/-55°; in bedrock 188 → 1308')

This hole is similar to DDH 605-03, except that it intersects the alteration zone for only some 400', being in gougy contact with gabbro at its upper end; except also that the underlying chlorite schist rests on grey magnetic metasediments. A porphyry is again found at the upper end.

Two assays in the chlorite schist, above the bleached zone and above the gabbro, returned 0.05 & 0.07 oz/ton Au respectively over 5.5 & 4.0' (associated with quartz stringers). Only the upper, and not so strongly bleached, part of the alteration zone returned low gold values of interest (a fact well reflected in the geochemical gold profile); the gold is associated with pyrite-bearing, brecciated or schistose, often reddish, siliceous rocks; assays vary from 0.01 to 0.05 with one 0.11 oz/ton Au over 4.0 feet.

This hole was drilled to test the western extension of the Garrison property known mineralized zone, some 200' from a former DDH which had returned numerous 0.1 oz/ton including a 0.17 oz/ton Au over 9 feet. Here again, that alteration zone may spread to the north; it remains open to the west. IT IS CONSIDERED THE LOCUS OF THE DESTOR-PORCUPINE FAULT ZONE.

— Hole 605-06

(10+25N, 44+00E; 180°/-60°; in bedrock 188→1532')

To 873' : very fine to fine-grained greywackes and shaly siltstones (with the tops facing northward according to graded bedding determinations); the lower part of these metasediments is centimetric to millimetric laminated and its lowest 3' are laden with barren massive sulfides. Below 873': a sequence of andesite-basalts interlayered with gabbros (190' near the hole last quarter and 100' at its bottom); occasionally a short intersection of porphyry or of reddish felsite is present. Only one assay returned a value reaching 0.016 oz/ton Au (the low gold enrichment of that intersection is also showing in the geochemical gold profile).

This hole explored a magnetic low, explained by the metasediments presence.

5.b) Garrison Option "Michaud Twp." (PN-620)

A total of 18,825 feet of diamond drilling in 22 holes.

—Hole 620-01

(130+00N, 280+00E; 150°/-45°; in bedrock 86 → 979')

Intrusive breccia material: volcanic rocks criss-crossed by or held into feldspar porphyries and syenite; gabbro and mafic inclusions cut by felsic dykelets and dykes. Near the hole bottom, the volcanic rocks are more abundant and are often laminated or foliated. Some rare assays reach 0.01 oz/ton Au; similarly the geochemical gold profile shows only local weak enrichments.

This hole cuts across a magnetic high (60,200 γ) which is easily explained by the volcanic rocks; it is also located west of the Ludgate zone not far from former DDH 3-80 which had given a fair intersection: it gave no encouraging assay but contributed to the overall geological picture.

— Hole 620-02

(135+50N, 274+00E; 150°/-45°; in bedrock 50 → 988')

Entirely consisting of porphyritic syenite with variable grain size, % phenocrysts, and color tinges. Usually massive, somewhat laminated very locally. Only traces of gold detected.

This hole cuts across a magnetic low (58,200 γ) adjacent to an east-northeast trending gradient reaching a plateau (higher than 59,000 γ). Although no volcanic rocks were encountered in the hole itself they are suspected to be the cause of the magnetic high plateau. The low fits well with the syenitic rocks.

— Hole 620-03

(121+13N, 317+26E; 0°/-55°; in bedrock 42 → 706')

Summary from M. Bérubé's report (Ludgate Zone):

"Drilled on section 9670m E, this hole was intended to sample the main gold zone 75 feet west of the diabase dike, 360 feet vertically below the surface or 425 feet downhole. The hole traversed the diabase-syenite at 177 feet and encountered the alteration zone from 382 to 435 feet including a still more highly altered and brecciated section from 397 to 428 feet. The best gold values average 0.064oz/ton over 12.5 feet if including an 8-foot barren section.

The gold geochemical profile traced along the hole on the 1:400 section shows a moderate anomaly (364-373.5) corresponding with the alteration halo."

— Hole 620-04

(117+78N, 319+23E; 0°/-55°; in bedrock 64 → 1391')

Summary from M. Bérubé's report (Ludgate Zone):

"Drilled on section 9730m E, this 1392 feet long hole was intended to sample the main gold zone 75 feet east of the diabase dike, 680 feet vertically below the surface or 850 feet downhole. It first encountered the southern alteration halo(626'-715') containing 0.095 oz Au/ton over 8.0 feet (655.0-663.0), then penetrated the central or main alteration halo (804-962) cutting only one gold assay of 0.14 oz/ton over 1.0 foot (863.5-864.5) and finally passed through the northern alteration halo (1144-1226) which yielded a wide, low grade gold intersection averaging 0.026 oz/ton over 26.0 feet (1196-1218). It is worth mentioning the presence of quartz veins at 636(1') and at 1151(14').

The gold geochemical profile largely corresponds with the 3 alteration halos although very weak over the southern one".

— Hole 620-05

(125+50N, 338+00E; 180°/-45°; in bedrock 216 →788')

Chloritic greenstone intruded by abundant syenitic porphyries, lath feldspar porphyries and syenite. The lowest half is rich in ultrabasic rocks, themselves cut by porphyries. Several intervals look analogous to rocks of the Ludgate Zone, however no assay reaches above 0.01 oz/ton Au.

This hole is located in a sloping magnetic area (59,000 to 59,500 Y), interpreted as a low due to felsic intrusives and an increase accompanying the ultrabasic rocks. There is also an I.P. low resistivity corresponding to some schistosity (practically on strike with the east-west Ludgate Zone). The I.P. weak frequency effect is associated with a low pyrite content.

— Hole 620-06

(117+00N, 382+00E; 180°/-45°; in bedrock 204 →698')

Assemblage of chloritized and serpentized greenstone (basic to ultrabasic lavas, locally gabbro-like) holding some porphyry or porphyritic felsite layers (10 to 20 feet wide). At 455, one assay of 0.25 oz/ton Au was discovered in the last 5 feet of a 20-foot reddish grey, siliceous-looking porphyritic felsite. The geochemical profile shows little enrichment in gold.

This hole tested an I.P. low resistivity part of an extensive east-west trend, which we explain by the serpentization and shearing of the ultramafic rocks; the magnetic contours show a steady increase to the south from 61,000 Y to 62,000 Y and the same east-west trend is interpreted as due to stratigraphy of the basic and ultrabasic rocks.

— Hole 620-07

(121+00N, 382+00E; 180°/-45°; in bedrock 204 → 220')

Hole lost due to sand gushing up the casing. Some 15' of andesite-basalts, holding some pyrite, which returned only traces of gold.

Hole replaced by DDH 620-08, drilled from the same set-up.

— Hole 620-08

(121+00N, 382+00E; 180°/-53°; in bedrock 199 → 850')

Chloritized andesite-basalts (lower part skarnized and epidotized) overlying chloritized & serpentized mafic to ultramafic rocks; close to their contact, some 14' of feldspar porphyries.

From 351 to 371, very fractured and brecciated tuff-metasediments which gave the only 0.01 oz/ton Au assay. No gold enrichment of any extent shown on the geochemical profile.

This hole tested a Rémy Bélanger I.P. low resistivity and fair frequency effect which are explained respectively by the carbonated, fractured & brecciated 20' zone and by the tens of feet of andesite-basalts holding ~ 1% pyrite, above that fractured zone.

— Hole 620-09

(117+98N, 315+28E; 0°/-55°; in bedrock 62 → 1446')

Summary from M. Bérubé's report (Ludgate Zone):

"Drilled on section 9610m E, this 1446 feet long hole was supposed to sample the main or central gold zone at about 100 feet west of diabase, 750 feet vertically or 900 feet downhole. It encountered a quartz vein (879.0-889.5) without much outside alteration, underneath a diabase

branch; vein which assayed 0.15 oz/t over 13.0 feet (881.5-894.5). The southern zone was not observed nor detected but the hole encountered two gold zones in the northern alteration halo (1072-1211):

0.145 oz/ton over 4.0' (1098.0-1102.0)

0.034 oz/ton over 66.5' (1130.0-1196.5)

The gold geochemical profile is very weak over the southern halo, strong over the quartz vein in the central zone and wide but weak over the northern halo".

— Hole 620-10

(117+00N, 380+00E; 180°/-45°; in bedrock 214 → 745')

Basalt overlying chloritized & serpentized mafic to ultramafic rocks. Close to their contact, 9' lamprophyre. Some talc and schistosity (vertical) in the ultramafic rocks; minor feldspar porphyry. Only traces of gold in assays as well as on the geochemical profile.

This hole was used to delineate the extent to the west of the 0.25 oz/ton Au assay of DDH 620-06. It is crossing the local east-west trend.

— Hole 620-11

(117+00N, 384+00E; 180°/-45°; in bedrock 198 → 697')

Gabbro/basalts overlying chloritized & serpentized mafic to ultramafic rocks. Close to their contact, an 18' porphyritic felsite (pinkish grey, yielding 0.54 oz/ton Au over 5' or 0.22 oz/ton Au over 13'). The gold enrichment is showing locally in the geochemical gold profile.

This hole was used to delineate the extent to the east of the 0.25 oz/ton Au assay of DDH 620-06. It is cutting the local east-west trend revealed by geophysical surveys.

— Hole 620-12

(99+00N, 304+00E; 135°/-48°; in bedrock 76 → 1153')

Reddish to pink feldspar porphyries cutting across altered pinkish grey porphyritic syenite. Locally over 1% quartz stringers, usually less than 1% pyrite, yielding 0.02-0.03 oz/ton Au in places (rock analogous to Ludgate Lake Gold Zone material). Near the center, transitional zone of feldspar porphyries and basic inclusions (locally showing gold enrichment to 0.02 oz/ton Au). These inclusions are often well epidotized (chloritized at the upper end and carbonatized near the lower end of the hole).

The hole bottoms in magnetic basic to ultrabasic rocks. The geochemical profile shows gold enrichment of interest in the upper part and near the center of the hole.

This hole tested a magnetic low (58,100 γ) adjacent to a north-south-trending increase to 59,000 γ. They correspond, respectively, to felsic intrusives and basic to ultrabasic rocks. That north-south trend leads directly to the Ludgate Zone to the north.

— Hole 620-13

(117+52N, 313+97E; 0°/-60°; in bedrock 62 → 1503')

Summary from M. Bérubé's report (Ludgate Zone):

"Drilled on section 9570 m E, this 1503 feet long hole was intended to verify the central zone at 850 feet vertically below the surface or at 1,000 feet downhole. It encountered a wide alteration halo containing all of the 3 gold-bearing zones which yielded the following results:

0.635 oz/ton/ 1.5' (309.0- 310.5), erratic along fracture
 0.08 oz/ton/ 8.0' (753.0- 761.0), in the southern zone
 0.046 oz/ton/ 8.0' (996.0-1004.0), in the central zone
 0.25 oz/ton/ 9.0' (1148.0-1157.0), in Q.V. of north zone
 0.046 oz/ton/ 44.0' (1181.0-1225.0), in second north zone.

The gold geochemical profile shows a serie of unexpected weak anomalies in the first portion of the hole over fractured sections, a rather weak expression over the southern and central halos but a well defined double peak anomaly over the southern halo".

— Hole 620-14

(117+45N, 320+54E; $0^{\circ}/-60^{\circ}$; in bedrock 67 \rightarrow 1486')

Summary from M. Bérubé's report (Ludgate Zone):

"Drilled on section 9770m E, this 1486 feet long hole was supposed to test the main gold zone at a vertical depth of 885 feet or 1025 feet downhole. It first encountered a premature 15-foot long gold intersection averaging 0.09 oz/ton (629.0-644.0) associated with red dikes (597-644), then a 5-foot section averaging 0.14 oz/ton (842.5-847.5) inside an alteration halo (884-893) considered as the projection of the southern zone and finally some low values in the northern alteration halo (1091-1201) but did not encounter any gold intersection or alteration halo right on target.

The gold geochemical profile is weak over the southern alteration halo, absent over the missing central zone and very weak over the northern halo".

— Hole 620-15

(117+00N, 386+00E; $180^{\circ}/-45^{\circ}$; in bedrock 222 \rightarrow 622')

Altered basic to ultrabasic rocks (chloritized & serpentized, often with shears and breccias accompanied by some gouge. The sequence is cut by three 10-foot porphyries and holds the pink porphyritic felsite which is gold-bearing in DDH 620-06 & 11; however, in the present hole it runs only 0.01 oz/ton Au over 2 short intersections of 1 and 2 feet.

This hole served to the definition drilling of the DDH 620-06 & 11 gold zone: it indicated its western end. The geochemical gold profile is weakly anomalous.

— Hole 620-16

(117+00N, 388+00E; 180°/-45°; in bedrock 214 → 461')

Fairly magnetic dacite-andesites overlying altered ultramafic rocks (chloritized & serpentinized, sometimes talcose) which hold 15' of pinkish grey felsitic feldspar porphyry. All samples assayed only Traces to NIL; however, the determination of the geochemical gold yielded 518 ppb from 246 to 300.

This hole completed the definition drilling of the DDH 620-06 & 11 gold zone in the eastward direction. For completeness sake, the 246-300 interval could be assayed in its entirety (presently 15' only have been assayed and returned only traces).

— Hole 620-17

(108+00N, 384+00E; 0°/-45°; in bedrock 224 → 996')

Basic to ultrabasic rocks, fractured & slickensided (more so at depth; below 560: frequent carbonate stringers); narrow intersections of grey feldspar porphyry encountered here and there; less than 80% core recovery in the first 450' of core.

Close to the bottom, band of tuffaceous grey magnetic dacite (which yielded the only 0.01 oz/ton Au assay) overlying an 8' pink porphyritic felsite (equivalent to the mineralized one of DDH 620-11).

This hole tested the continuity at depth of the nearby mineralized intersections of DDH 620-06 & 620-11. No success in the assays, neither in the geochemical gold profile.

— Hole 620-18

(112+00N, 364+00E; 180°/-45°; in bedrock 284 → 1206')

At upper end, feldspar porphyry lying on a complex arrangement of layered volcanic material cut by dark contaminated porphyry & felsite. Then, nearly 400' of porphyritic syenite holding some narrow lamprophyre intersections and overlying more than 400' of carbonatized, chloritized & serpentinized mafic to ultramafic rocks (holding 70' of feldspar porphyry near the end of the hole). Only two 0.01 oz/ton Au assays were obtained, and the gold geochemical profile shows little enrichment.

This hole crossed a magnetic low (61,000 Y) trending northeast across an extensive east-west magnetic ridge (62,000 Y); the presence of felsic intrusives, within the basic to ultrabasic rocks, explains it satisfactorily.

— Hole 620-19

(119+00N, 382+00E; 180°/-55°; in bedrock 178 → 936')

Upper half consists of andesite-basalts with occasional metasediments, lamprophyre and porphyries; the lower half is made-up of basic to ultrabasic rocks, chloritized, serpentinized, and sometimes talcose, which hold a carbonated shear zone & breccia from 605 to 632 and an 18' pink & grey felsitic feldspar porphyry near the hole lower end. No gold to speak of, neither in assays nor in geochemical profile.

This hole served as the final test at depth of the eventual extent of DDH 620-06 & 11 narrow mineralized zone. Since this hole assays lacked in proving any continuity (as did several nearby holes assays) the area was considered reasonably surrounded and it was abandoned.

— Hole 620-20

(121+00N, 290+00E; $0^{\circ}/-45^{\circ}$; in bedrock 111 \rightarrow 656')

Upper half consists of mixed facies feldspar porphyries holding some volcanic inclusions in places, developing into a mixture with syenite at depth. Then, a 5' brecciated and fractured zone which holds 2' of kimberlite(?). The lower half of the hole is an alternance of red altered porphyries and syenite (the latter locally dark and often showing a barber-pole effect attributed to alteration spreading). Numerous assays of 0.01 oz/ton Au and locally a 0.02 or a 0.03 oz/ton Au. The geochemical profile shows an anomalous gold background with a tendency to enrichment in the upper two thirds of the hole.

This hole, located in a relatively flat magnetic area (58,700 Y), crosses an I.P. low resistivity and a VLF-EM conductor both trending east-west. It lies due west of the Ludgate Lake Gold Zone, and is located 400' west of former DDH 3-80 (which assayed 0.07 oz/ton Au over 10').

— Hole 620-21

(130+15N, 310+75E; $135^{\circ}/-45^{\circ}$; in bedrock 9 \rightarrow 126')

The core consists of "aplite" (with a reddish finely laminated band, possibly a tectonite, near its upper contact) lying amongst pinkish grey porphyritic syenite, cut by reddish lath feldspar porphyries.

One assay of 0.07 oz/ton Au over 5.0' was found in the aplite; two assays of 0.02 oz/ton Au over 5.0' were found in lath feldspar porphyries. Geochemical gold is weakly anomalous.

This hole checked at close range (under it) for the eventual extent at depth of the NW Ludgate Trench high (> 1 oz/ton Au) assay spot. It cut at a high angle across the east-northeast trending rock types contact, and allowed defining the aplite attitude (hanging wall 020, 45° W; footwall 020, 60° W).

— Hole 620-22

(130+75N, 310+75E; $180^{\circ}/-45^{\circ}$; in bedrock 12 \rightarrow 172')

Rock sequence very similar to that of DDH 620-21 (see above) although the hole cut across the rock types contact at a smaller angle. The aplite returned only traces of gold; the overlying lath feldspar porphyries gave one 0.03 and two 0.02 oz/ton Au over 5.0'.

This hole checked at close range (southwest of it) for the eventual extent of the NW Ludgate Trench high (> 1 oz/ton Au) assay spot.

5.c) Garrison Option "Guibord Twp." (PN-693)

A total of 3921 feet of diamond drilling in 5 holes.

— Hole 693-01

(11+50N, 10+00E; $180^{\circ}/-45^{\circ}$; in bedrock 182 \rightarrow 746')

Chloritized & serpentized sheared zone; frequent carbonate stringers & fillings, usually brecciated and sheared. Somewhat to fairly magnetic. Former basic to ultrabasic lavas holding some metasediments and tuff layers. 2% Py dust, in greywacke-like, from 601 to 610.5 which assayed 0.02 oz/ton Au and which shows a local geochemical gold anomaly.

This hole cut across a strong I.P. anomaly (its metal factor explained by the fine-grained pyrite, its low resistivity by the widespread shearing). The 61,500 γ magnetic high is in line with the observations done on the core.

— Hole 693-02

(7+50N, 48+00E; $210^{\circ}/-45^{\circ}$; in bedrock 58 \rightarrow 764')

Intermediate to basic lavas, carbonate-sutured; some siliceous layers, tuff bands. Brecciated & fault zone from 165 to 340' (below 209, intensely chloritized & serpentized, also talcose. \sim 1% Py from 350.7 to 357.5 (in red siliceous). No gold!

This hole was aiming at a low I.P. resistivity (which is explained by the brecciated fault zone).

— Hole 693-03

(16+50N, 60+00E; $210^{\circ}/-45^{\circ}$; in bedrock 120 \rightarrow 762')

Chloritized volcanic rocks with some metasediments (more abundant at depth); magnetic everywhere except 493-588. No sulfides to speak of and no gold!

This hole tested a very good metal factor I.P. anomaly (which could be caused by very fine-grained magnetite in lower half metasediments which in places might be analogous to the ferruginous metasediments of DDH 605-04?). Another explanation would be to invoke the inaccuracy linked to the wide electrode spacing and to suspect a conductor located near 10N on line 58E!

— Hole 693-04

(4+50M, 60+00E; $210^{\circ}/-45^{\circ}$; in bedrock 120 \rightarrow 873')

Magnetic chloritized greenstone, carbonate stringers-sutured. Several shear zones with brecciation and gouge are found here and there. Occasionally some fine-grained pyrite. No gold!

This hole tested a good I.P. conductor with coincident mag. It can be caused by a conductor located near 10N on L58E (that inaccuracy being linked to the wide electrode spacing). The low I.P. resistivity is easily explained by the shear zones presence.

— Hole 693-05

(25+00N, 78+00E; $0^{\circ}/-45^{\circ}$; in bedrock 118 \rightarrow 776')

Basic to ultrabasic rocks, chloritized & serpentized, usually magnetic; minor pyrite. Some basic tuffs & metasediments (with 4% Py from 323 to 326). 5% feldspar porphyry forming three 12-foot intersections. No gold to speak of!

This hole tested a fairly low I.P. resistivity lying on the flank of a 61,500Y magnetic high. It can be explained by the chloritized & serpentized rocks, brecciated & sheared at several places.

6. PROPERTY GEOLOGY

The geology of each one of the properties, object of this report, remains sketchy due mainly to the lack of outcrops and the usually great depth of overburden.

Drill hole-derived information, extrapolated according to geophysical data, mostly magnetometric, supplied the base on which the following interpretation was built.

6.a) Geological Compilation of the 3 townships (PN-604)

Three maps at 1:20,000, in Volume 2, summarize the geological data interpretation done by M. Bérubé in 1984 for each of the Garrison, Michaud and Guibord townships.

The emphasis is made on the structure; the principal shear zones outlined being the Destor-Porcupine, the Munro (PIPESTONE), and the so-called "Guibord-Beatty" and "Contact". A 9-page internal report (in French) is available, if need be, although much of the maps are self-explanatory.

6.b) "Garrison Twp." (PN-605) Geology

Generally speaking, the Garrison Twp. property consists of an assemblage of mafic lavas enclosing a band of metasediments, both of which caught to the east and west between two felsic intrusive stocks (the eastern one underlying most of the property southeast corner); the Destor-Porcupine sheared and altered zone splits the property in an east-northeast direction and the Munro east-west strike fault cuts across its northern end.

Polk & MacVeigh (1975) have described the main features of the property geology. The Destor-Porcupine Break transects mafic volcanics and syenite in a northeasterly direction and, near the property northeastern boundary, swings to an easterly trend and comes in contact with the so-called Hoyle Group sediments. A large felsic intrusive plug noses from the east into the southeastern portion of the claim group, and is shown to butt against the southern limit of the Destor-Porcupine fault zone. Basic and ultrabasic rocks

occur in both the northern and southern portions of the property. In the northeastern part of the property gold values were found in a porphyry flanking a 200-foot wide band of green carbonate rock. Talc-chlorite schist, altered lavas, syenite and feldspar porphyry have been drill intersected near the "break".

The 1984 diamond drilling amounted to six holes equally shared between the southern part, the northern part and the mineralized alteration zone of the property.

- In the southern part, a 75,000 γ magnetic high was found related to very fine-grained ferruginous metasediments (these are hornfels-looking and contain some 0.02-0.03 oz/ton Au values in high silica portions; their proximity to a north-northwest lineament and to the felsic intrusive plug are to be noted). Near the south boundary, the syenite/volcanic rocks contact was drilled off and two 0.02 oz/ton Au values over 5.0' were found in the syenite associated with quartz veinlets and stringers.

- In the northern part, two holes drilled an assemblage of volcanic rocks (with only one assay reaching 0.02 oz/ton Au over 5.0'), adjacent to metasediments to the North (these underlie a magnetic low, and contain 3' of barren massive sulfides at the volcanic contact; graded bedding indicates their top facing North).

- In the already known mineralized alteration zone, Polk & MacVeigh statements were confirmed. An impressive 900-foot intersection of strongly bleached rocks of varying colours was cut across; assays of 0.01 to 0.03 oz/ton Au are numerous but economic grade ones are few and far between. The alteration zone was summarized as follow:

- a) 40% beige "Sericitic-quartz-carbonate rock" altered feldspar porphyry,
- b) 40% green "Green mica-carbonate schist" altered ultrabasic rock (holding more than 50% magnesite),
- c) 10% red "Reddish siliceous rock" altered alkaline volcanic rock, and
- d) 10% grey "Carbonate chlorite schist" metamorphosed impure dolomite.

Eleven pol-thin sections were made, mostly of the above alteration zone rocks; their petrographic examination by Wyslouzil & Buchan (1984) identified a number of syenitic rock types in agreement with a sample suite from the nearby "Michaud Twp." PN-620 property. Mineralization consists mostly of disseminated pyrite; minute blebs of pyargyrite are suspected; one $3\mu\text{m}$ grain of native gold occurs within pyrite in one of the highly altered syenitic volcanics.

Other rock types identified include a magnesite-muscovite (fuchsite?) rock, limey metasediments and a ferruginous metasediment.

6.c) "Michaud Twp." (PN-620) Geology

Geologically, this property can be summarily described as straddling for $1\frac{1}{2}$ miles the north-south contact between a felsic intrusive stock (to the west) and an assemblage of mafic to ultramafic lavas (to the east); its southeast corner is crossed by the Destor-Porcupine Fault Zone, while a westward-oriented shear zone (the so-called "Ludgate Shear", which could be a branch of the Destor-Porcupine) stretches over its $2\frac{1}{2}$ -mile width.

The more detailed data have been gathered over the Ludgate Lake Gold Zone by R.S. Band (1980) who classified the main rock types and by J.E. Muir (1980) who examined their petrography and geochemistry. Recently, 1:400 sections and gold inventory calculations have been performed by M. Bérubé (1985).

R.S. Band recognized a syenite multiphase intrusion; the syenite porphyry, porphyritic syenite and granulated syenite representing earlier co-magmatic differentiates, while the lath porphyry, pegmatitic porphyry, trachytic porphyry and possibly the brick red altered syenite are interpreted as "terminal" phases of a fractionally crystallized syenitic magma.

J.E. Muir observed minute grains of native gold, both as microinclusions in pyrite and as free-milling grains in 7 out of 13 mineralized samples. Alteration includes pyritization, hematitization, silicification and "ankeritization";

quartz veining is sporadic. The chemical compositions of the intrusive host rocks confirm their alkaline nature and support their classification as syenites. Detailed microscopic examination revealed finely dispersed, submicron-sized particles of hematite, imparting a pink to red colour to the host intrusive. The grey colour of the feldspar laths of the pegmatitic syenite is due to the presence of abundant submicron-sized opaque (sulphides + oxides) inclusions.

The host rocks of the Ludgate Lake Gold Zone are characterized by variable proportions of ankerite, higher pyrite contents and quartz veining; texturally, they exhibit varying degrees of fracturing and granulation.

The 1984 drilling campaign established the following (distances stated relative to the Ludgate Lake Gold Zone):

- Over $\frac{1}{2}$ mile west, there are remnants of volcanic rocks in the syenite stock; no significant gold enrichment accompanies them;
- About $\frac{1}{2}$ mile west, rocks analogous to the mineralized zone have been enriched in gold below the economic interest level;
- In the Ludgate Zone itself, the diabase proved of complex shape, and it is of no direct association with gold;
- Immediately to the north of the Ludgate Zone, water jet stripping of a trench showed the lath feldspar porphyries north-northeast trend as well as the complexity of compositional changes and cross-cutting arrangements of several related intrusive rocks; near the north end of the trench, a 15' wide whitish intrusive, so-called "aplite", was discovered holding a very finely laminated decimetric reddish band (probably a tectonite): both are trending north-northeast and dip 45 to 60° west;

- ½ mile south, rock types analogous to the mineralized zone have been enriched significantly in gold (locally in the upper part of DDH 620-12); the north-south contact of syenite with basic to ultrabasic lavas was confirmed on the same occasion.
- About ½ mile east, rocks analogous to the mineralized zone were encountered but without indication of significant enrichment in gold.
- From about ½ to 2 miles east, the broad and extensive magnetic high zone (generally east-west striking) was found related mostly to basic to ultrabasic lavas; these lavas are cut by varying amounts of felsic intrusive rocks (of lower magnetic signature).

A small but good grade gold zone was discovered in a 10 to 20-foot pink porphyritic felsite; but delineation drilling proved it of no economic extent. (Surface Plan & Longitudinal Section are available on a map entitled East Zone D.D.H. in Volume 2).

An interpretation of rock types extent and of fault locations has been drafted on a combined data map at 1:4,800 scale entitled "Compilation Map", available in Volume 2.

6.d) Guibord Twp. (PN-693) Geology

Described summarily, the bedrock of the Guibord Twp. Property consists in majority of basic to ultrabasic lavas; that assemblage is crossed by both the Destor-Porcupine & the so-called "Contact" shear zones, at the junction of which lie a felsic intrusive mass and some carbonate-rock outcrops. Metasediments, gabbro, and intrusive breccia also outcrop in the northern part of the property.

A preliminary geological interpretation by André Gauthier, who mapped the outcropping northern part of the property in 1983, is available in Volume 2 on a map at 1:4,800 entitled "Geology & Compilation".

The 1984 drilling confirmed the abundance of faulting and shearing in the central part of the property which is therefore considered the likely LOCUS OF THE DESTOR PORCUPINE BREAK. The immediate vicinity seems remarkably devoid of gold! (except for one intersection of greywacke-like metasediment at the property western boundary, which assayed 0.02 oz/ton Au over 9.5' and is associated with 2% fine pyrite dust).

6.e) DUNMAR Property Geology

The DUNMAR Property consists mostly of basic lavas; it includes part of the north-northeast contact between these and a felsic intrusive to the east.

The east-west trending "Ludgate" shear zone (which might be a branch of the Destor-Porcupine Break) is thought to cut across the property.

No further comment on the geology will be presented since no outcrop exists and no drill hole was bored recently.

7. CONCLUSION & RECOMMENDATIONS

By its easy access and geological characteristics (numerous anomalous gold values, widespread fracturing and complex alterations) the Garrison-Michaud-Guibord townships area remains attractive to gold orebody searching. Thick overburden constitutes a serious hindrance however.

On the "Garrison Twp." property, the best assays were: 0.42 oz/ton Au over 3.0' in a quartz stringers-bearing gabbro, 0.06 oz/ton Au over 9.5' above the alteration zone, 0.11 oz/ton Au over 4.0' near the upper end of a 400' bleached zone, and 0.17 oz/ton Au over 1.7' near the upper 1/3 of a 900' altered intersection.

Assays and geochemical results show a significant enrichment in gold in the wide alteration zone; however, the erratic character of the economic intersections and the extent of former drilling combine to class that sector as thoroughly tested. One low I.P. resistivity on the west boundary of the property could be tested by one hole, collared at 19+00S on line 20E and to be drilled 1000' at -60° in a southerly direction.

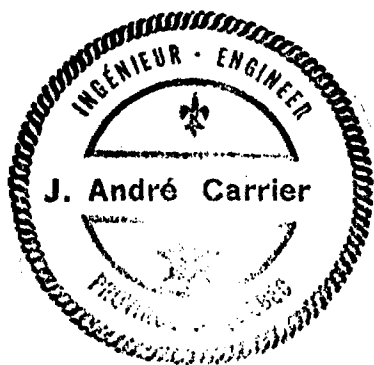
The "Michaud Twp." best assays were found within the immediate vicinity of the Ludgate Zone known mineralization; no consistent significantly higher grades nor any clearly defined ore zone were discovered. One spot of assays rating better than 1 oz/ton Au was discovered in a trench some 600' north of the Ludgate Zone (detail sampling and two short diamond drill holes showed it to be of no economic extent).

Exploration holes showed the great extent of syenitic rocks (analogous to those of the Ludgate Zone) but discovered no economic gold. Near the south boundary of the property, to the south of the Ludgate Zone, DDH 620-12 cut three intersections assaying 0.03 oz/ton Au; its overall geochemical gold profile rates in the 30-200 ppb range; further drilling seems warranted to explore that new altered zone.

All the "Guibord Twp." property diamond drill holes returned deceiving assays. Only a faint 0.02 oz/ton Au over 9.5' was detected in a pyrite-bearing limey greywacke (DDH 693-01). One hole could be spudded some 300 feet farther northeast (on line 12E and in a southerly direction) to test a weak Rémy Bélanger's I.P. anomaly as well as to search for the extension of the aforementioned mineralized greywacke.

That completes our report on the "Garrison Creek Option—Exploration Performed in 1984"

We remain available, on request, to supply further information relating to this report.



J. André Carrier, Eng.

J. André Carrier, Eng., M.Sc. (Applied)

APPENDIX CONTENTS

- List of Selected References

- List of Mining Claims

- List of Works Performed in 1984

- List of Holes Drilled in 1984

- D.D.H. Vertical Sections (with geochemical gold profiles)
at 1:1,200 or 1:2,400

LIST OF SELECTED REFERENCES

1. - Band, R.B. (FNML, 1980): Falconbridge Nickel Mines Limited, Report on the 1979 Exploration Program on the Marchaud Property, Michaud Township. MEAP Contract KL 139. 6-page report (with data in appendix).
2. - Beier, G. (1984): Garrison Creek - Garrison Grid PN-605, List of Pseudo-Sections, I.P. Survey. 18 lines.
3. - Beier, G. & Bélanger, R.(1984): Michaud Grid PN-620, I.P. Pseudo-Sections. 14 lines by Beier & 27 lines by Bélanger.
4. - Beier, G. (1984): I.P. Survey(1984), Garrison Creek - Guibord Grid PN-693. List of Pseudo-Sections (G.Beier). 14 lines.
5. - Bélanger, R. (1984): Michaud Block PN-622, I.P. Surveys 1984, Pseudo-Sections. 25 lines.
6. - Bérubé, M.(1984): Falconbridge Limited. Compilation et interprétation structurale des 3 cantons Garrison, Michaud et Guibord, Cochrane District, Ontario. (9-page internal report).
7. - Bérubé, M. (1985): Falconbridge Limited, 1984 Drilling Report, Ludgate Lake Gold Zone, Garrison Option "Michaud Township" PN-620. 14 pages, Annex, maps & sections.
8. - Cartwright, P.A.- (Phoenix Geophysics Limited, (1980): Report on the Induced Polarization and Resistivity Survey on the Marchaud Mines Grid, Michaud Township of Ontario for Falconbridge Nickel Mines Ltd. 9-page report with 8 pages of notes and 10 illustrations.
9. - Colvine, A.C., editor (1983): The Geology of Gold in Ontario, Geological Survey Miscellaneous Paper 110, 278 pages.

- 10.- Falconbridge Nickel Mines Ltd. (1981): Falconbridge Nickel Mines Limited, Marchaud Property Drill Logs 1980, Michaud Township. (Some 300 pages bound in a book form of DDH M-1-80 to M-14-81 and their assays).
- 11.- Garrison Creek Mines Limited (1947): Garrison Creek Mines Limited Diamond Drill Logs of holes # 1 to 20 (bound in a folder). Some 100 pages.
- 12.- Hodge, H.J., chairman (1967): C.I.M.M. Centennial Field Excursion Northwestern Quebec - Northern Ontario. Geology Division, Canadian Institute of Mining & Metallurgy, 165 pages.
- 13.- J.M.C.D. (July 29, 1946): Diamond Drill Logs from Miscellaneous Holes Bored in Garrison Township. Some 50 pages.
- 14.- Lavoie, C. (Géola Ltée, 1983): Magnetic Survey, Property of Falconbridge Limited, Guibord Township, Ranges III & IV, Province of Ontario. 5 pages & 1 map.
- 15.- Lavoie, C. (Géola Ltée, 1984): Magnetic Survey, Property of Falconbridge Limited, PN-693 Project, Ranges III & IV - Guibord Township, Province of Ontario 5 pages & 1 map.
- 16.- Lavoie, C. (Géola Ltée, 1984): Magnetic Survey, Property of Falconbridge Limited, PN-620 Garrison Creek Project, Michaud Township, Province of Ontario. 5 pages & 2 maps.
- 17.- Lavoie, C. (Géola Ltée, 1984): Magnetic Survey (total Field and Vertical Gradient), Property of Falconbridge Limited, Garrison Creek Project, Michaud and Guibord Townships, Province of Ontario. 5 pages & 3 maps.
- 18.- Marchaud Mines Limited (1946): Marchaud Mines Limited, Drill Logs (in hand writing) of DDH # 6 to 20A (bound in a folder). Some 50 pages.

- 19.- Muir, J.E. (Falconbridge Metallurgical Laboratories, 1980): Petrography and Geochemistry of the Host Rocks at the Marchaud Gold Property Michaud Township, Ontario. 5 pages. MR# 1156; Falconbridge Nickel Mines Limited Metallurgical Laboratories, Thornhill, Ontario.
- 20.- Ploeger, F. and Grabowski, G. (1979): Garrison Township District of Cochrane; Ontario Geological Survey Preliminary Map P.868, Kirkland Lake Data Series.(Scale 1: 15,840).
- 21.- Ploeger, F. and Grabowski, G. (1980): Michaud Township, District of Cochrane; Ontario Geological Survey Preliminary Map P.871, Kirkland Lake Data Series.(Scale 1:15,840).
- 22.- Ploeger, F. and Grabowski, G. (1980): Guibord Township, District of Cochrane; Ontario Geological Survey Preliminary Map P.872, Kirkland Lake Data Series.(Scale 1:15,840).
- 23.- Polk, G.K. & MacVeigh, G. (1975): Garrison Creek Consolidated Mines Limited, Summary and Review of Data Received from R. Cunningham Dunlop. 21 pages, 2 appendices & 3 maps.
- 24.- Prest, V.K. (1953): Geology of Guibord Township. 56 pages & Map No. 1951-6 "Township of Guibord", District of Cochrane, Ontario (Scale 1:12,000). 60th Annual Report of the Ontario Department of Mines being VOL. LX, Part IX, 1951. Toronto.
- 25.- Satterly, J. (1949): Geology of Michaud Township. 27 pages & Map No. 1947-3 "Township of Michaud", District of Cochrane, Ontario (Scale 1:12,000). 57th Annual Report of the Ontario Department of Mines being VOL.LVII, Part IV, 1948. Toronto.
- 26.- Satterly, J. (1949): Geology of Garrison Township. 33 pages & Map No. 1949-1 "Township of Garrison", District of Cochrane, Ontario (Scale 1:12,000). 58th Annual Report of the Ontario Department of Mines being VOL.LVIII, Part IV, 1949, Toronto.

- 27.- Wilson, M.E., chairman (1948): Structural Geology of Canadian Ore Deposits. A Symposium, Geology Division, Canadian Institute of Mining & Metallurgy, 948 pages.
- 28.- Wyslouzil, D.M., Sarbutt, K.W. & L. Paquette (Lakefield Research; 1981): An Investigation of The Recovery of Gold from a Ludgate Lake (Marchaud Option) sample submitted by Falconbridge Nickel Mines Limited, Progress Report No.1. 16 pages, Project No. L.R. 2496; Lakefield Research, Lakefield, Ontario.
- 29.- Wyslouzil, D.M. & Buchan, R. (Lakefield Research; 1984): Mineralogical Examination of Drill Core Samples submitted by Falconbridge Limited from Garrison Twp., Ontario. 6 pages. Project No. F019; Lakefield Research, Lakefield, Ontario.

GARRISON CREEK OPTION
LIST OF MINING CLAIMS

— Garrison Option "Garrison Twp." (PN-605)
 Garrison Township, District of Cochrane, Ontario.

<u>Licence No.</u>	<u>Lot/Concession</u>	<u>Remarks</u>
39 506	N.A./N.A.	Patent, surface & mining rights
39 509	"	" " "
39 526	"	" " "
42 905	"	" " "
42 906	"	" " "
42 907	N.A./N.A.	Patent, surface & mining rights
42 908	"	" " "
42 909	"	" " "
42 910	"	" " "
42 911	"	" " "
42 912	N.A./N.A.	Patent, surface & mining rights
42 913	"	" " "
42 914	"	" " "
42 915	"	" " "
42 916	"	" " "
42 917	N.A./N.A.	Patent, surface & mining rights
42 918	"	" " "
42 919	"	" " "
42 920	"	" " "
42 932	"	" " "
42 933	N.A./N.A.	Patent, surface & mining rights
42 934	"	" " "
42 935	"	" " "
42 936	"	" " "
42 937	"	" " "
42 938	N.A./N.A.	Patent, surface & mining rights

— Garrison Option "Michaud Twp." (PN-620)
 Michaud Township, District of Cochrane, Ontario.

<u>Licence No.</u>	<u>Lot/Concession</u>	<u>Remarks</u>
40 909	9/III	Patent, surface & mining rights
40 910	9/III	" " "
40 911	9/III	" " "
40 912	9/III	" " "
40 913	9/III	" " "
40 914	8/III	Patent, surface & mining rights
40 915	8/III	" " "
40 916	8/III	" " "
40 917	8/III	" " "
40 918	8/III	" " "
40 919	7/III	Patent, surface & mining rights
40 920	7/III	" " "
40 921	7/III	" " "
40 922	7/III	" " "
40 923	6/III	" " "
40 928	6/III	Patent, surface & mining rights
40 929	6/III	" " "
40 930	6/III	" " "
40 931	5/III	" " "
40 932	5/III	" " "
40 933	5/III	Patent, surface & mining rights
40 934	5/III	" " "
45 149	9/II	" " "
45 151	9/II	" " "
45 152	8/II	" " "
45 153	8/II	Patent, surface & mining rights
45 154	7/II	" " "
45 155	7/II	" " "
45 156	6/II	" " "
45 157	6/II	" " "

45	158	5/II	Patent, surface & mining rights
45	159	5/II	" " "
46	238	9/II	" " "
46	239	9/II	" " "
539	924	8/III	Recorded claim
539	926	8/III	Recorded claim
539	946	7/III	"
539	947	7/III	"
539	948	8/III	"
539	949	9/III	"
539	950	9/III	Recorded claim
539	951	9/III	"
568	519	10/III	"
568	520	10/III	"
610	563	6/III	"
610	564	7/III	Recorded claim
610	565	7/III	"
610	566	6/III	"
610	567	10/III	"
610	568	10/III	"

— Garrison Option "Guibord Twp." (PN-693)
 Guibord Township, District of Cochrane, Ontario.

<u>Licence No.</u>	<u>Lot/Concession</u>	<u>Remarks</u>
11 369	10/IV	Patent, surface & mining rights
11 370	9/IV	" " "
14 647	10/IV	" " "
14 648	10/IV	" " "
14 649	9/IV	" " "
14 650	9/IV	Patent, surface & mining rights
14 651	9/IV	" " "
15 423	8/IV	" " "
15 474	10/III	" " "
15 475	9/III	" " "

15	476	9/III	Patent, surface & mining rights
15	477	9/III	" " "
15	478	9/III	" " "
15	479	9/III	" " "
15	480	9/III	" " "
15	481	9/III	Patent, surface & mining rights
15	482	9/III	" " "
15	483	8/IV	" " "
15	484	8/IV	" " "
15	485	8/III	" " "
36	724	10/IV	Patent, surface & mining rights
36	725	10/III	" " "
36	726	10/III	" " "

— DUNMAR Property

Guibord & Michaud Twps., District of Cochrane, Ont.

<u>Licence No.</u>	<u>Lot/Concession</u>	<u>Remarks</u>
44 243	11/III(M.)	Patent, surface & mining rights
44 244	12/III(M.)	" " "
44 245	12/III(M.)	" " "
44 246	1/III(G.)	" " "
44 247	1/III(G.)	" " "

— MORGAN Property

Guibord Township, District of Cochrane, Ontario

<u>Licence No.</u>	<u>Lot/Concession</u>	<u>Remarks</u>
45 161	2/II	Patent, surface & mining rights
45 162	3/II	Patent, surface & mining rights

GARRISON CREEK OPTION

LIST OF WORKS PERFORMED IN 1984

PROJECTS WORKS	GARRISON TWP. (PN-605)	MICHAUD TWP. (PN-620)	GUIBORD TWP. (PN-693)	DUNMAR Property
<u>LINE CUTTING</u>	---	1 mile	~3 miles	---
<u>MAGNETOMETRY</u>	---	0.9 mile	2.4 miles	~5 miles
Lines (Reading stations)	---	4 (172)	8 (260)	~34 (~500)
<u>INDUCED POLARIZATION</u>				
Lines (Reading stations)	18(1 480)	41(2 820)	14(970)	---
<u>DIAMOND DRILLING</u>	6 DDH	22 DDH	5 DDH	---
(AQ Wireline)	(8 715')	(18 825')	(3 921')	---
<u>NUMBERS OF SAMPLES</u>				
Fire assays	484	1 318	72	---
Au geochemistry	270	758	115	---
Thin sections	11	---	---	---
<u>STRIPPING</u>				
Cubic feet dug	---	41 000	---	---
Square feet jet-washed	---	15 000	---	---

GARRISON CREEK OPTION
(PN-605, 620 & 693)

LIST OF DIAMOND DRILL HOLES BORED IN 1984

(AQ wireline size, drilled by Bradley Bros. Limited)

- GARRISON OPTION "GARRISON TWP." PN-605

<u>Hole #</u>	<u>Collar Location</u>	<u>Azimuth/Dip</u>	<u>Depth</u>
605-01	40+00S, 94+00E	180°/-60°	1106'
605-02	0+50N, 38+00E	180°/-60°	1506'
605-03	1+00S, 68+00E	150°/-60°	1642'
605-04	21+50S, 60+20E	155°/-58°	1621'
605-05	7+10S, 56+50E	150°/-55°	1308'
605-06	10+25N, 44+00E	180°/-60°	1532'
			8715' TOTAL

- GARRISON OPTION "MICHAUD TWP." PN-620

<u>Hole #</u>	<u>Collar Location</u>	<u>Azimuth/Dip</u>	<u>Depth</u>
620-01	130+00N, 280+00E	150°/-45°	979'
620-02	135+50N, 274+00E	150°/-45°	988'
620-03	121+13N, 317+26E	0°/-55°	706'
620-04	117+78N, 319+23E	0°/-55°	1391'
620-05	125+50N, 338+00E	180°/-45°	788'
620-06	117+00N, 382+00E	180°/-45°	698'
620-07	121+00N, 382+00E	180°/-45°	220'
620-08	121+00N, 382+00E	180°/-53°	850'
620-09	117+98N, 315+28E	0°/-55°	1446'
620-10	117+00N, 380+00E	180°/-45°	745'
620-11	117+00N, 384+00E	180°/-45°	697'
620-12	99+00N, 304+00E	135°/-45°	1153'
620-13	117+52N, 313+97E	0°/-60°	1503'
620-14	117+45N, 320+54E	0°/-60°	1486'
620-15	117+00N, 386+00E	180°/-45°	622'

620-16	117+00N, 388+00E	180°/-45°	461'
620-17	108+00N, 384+00E	0°/-45°	996'
620-18	112+00N, 364+00E	180°/-45°	1206'
620-19	119+00N, 382+00E	180°/-55°	936'
620-20	121+00N, 290+00E	0°/-45°	656'
620-21	130+15N, 310+75E	135°/-45°	126'
620-22	130+15N, 310+75E	180°/-45°	172'
			<u>18825'</u> TOTAL

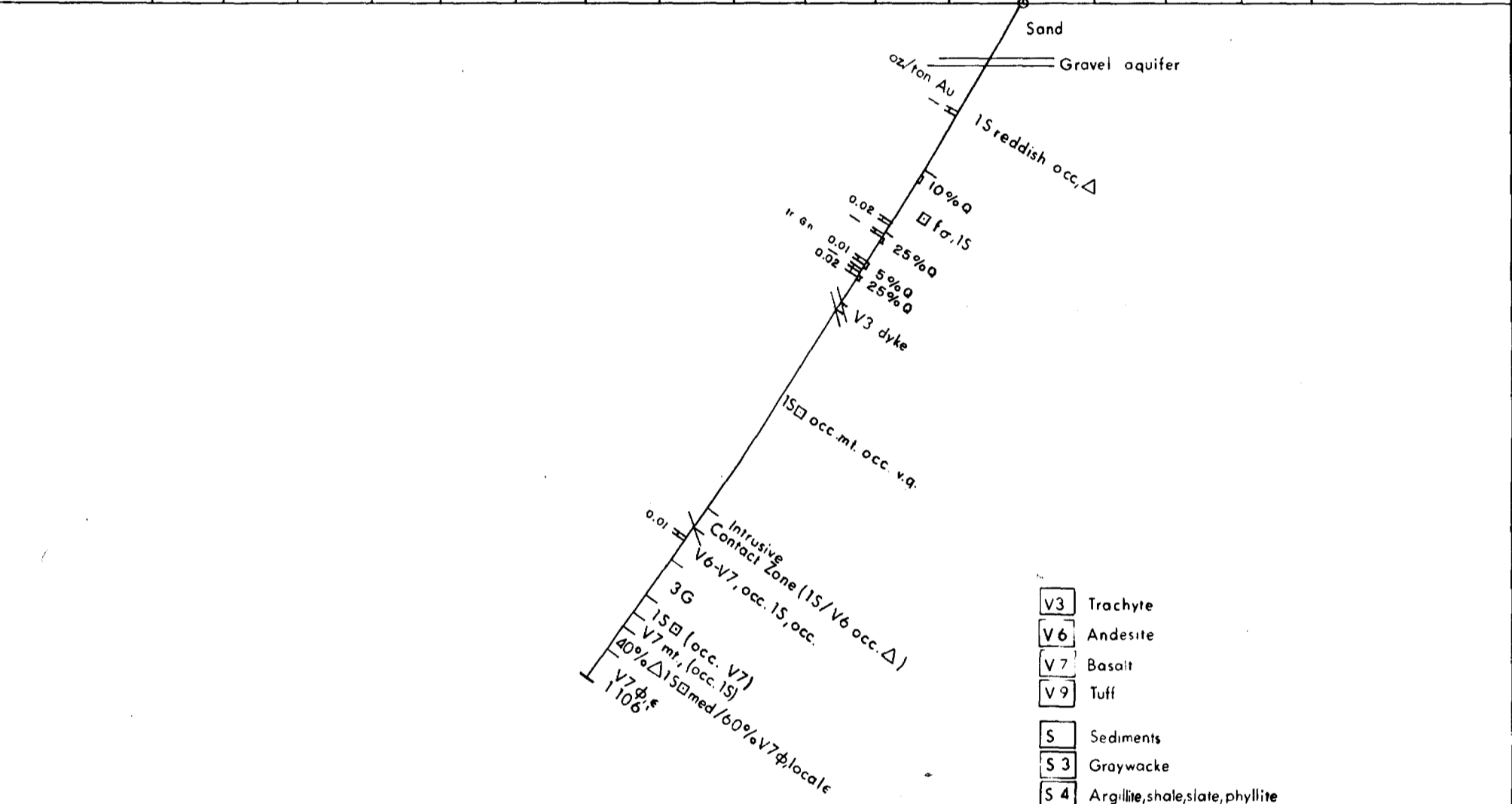
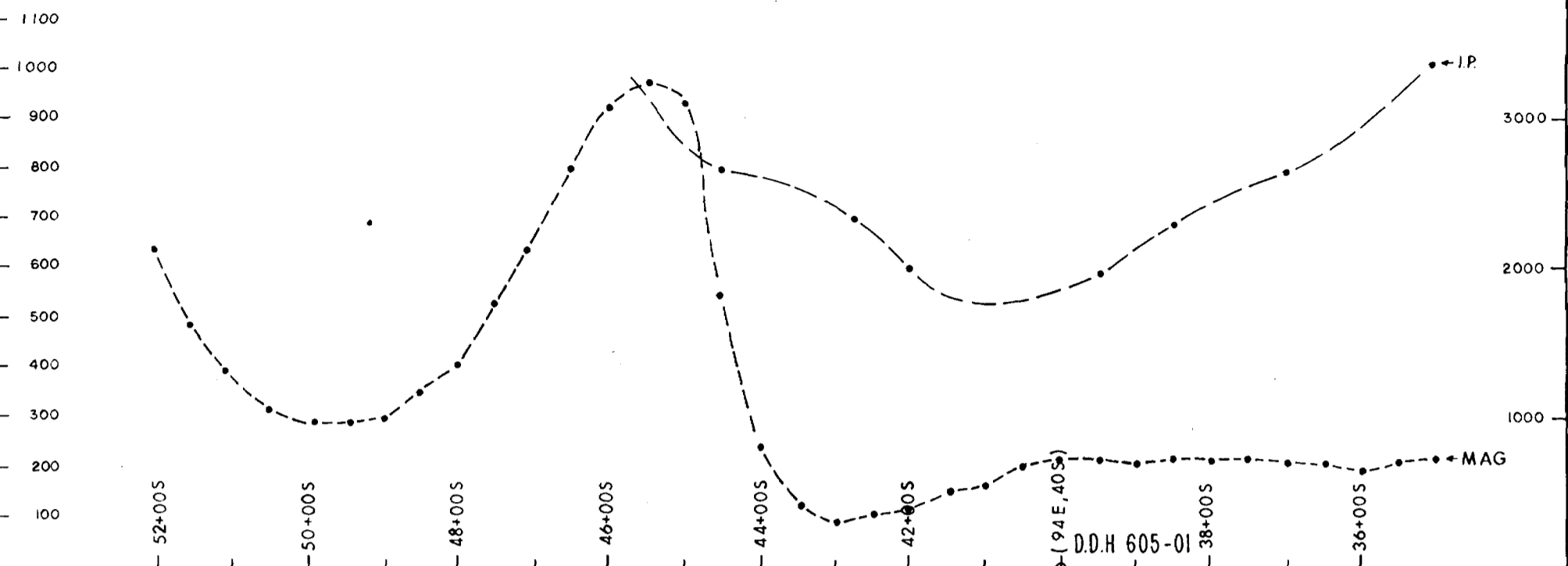
- GARRISON OPTION "GUIBORD TWP." PN-693

<u>Hole #</u>	<u>Collar Location</u>	<u>Azimuth/Dip</u>	<u>Depth</u>
693-01	11+50N, 10+00E	180°/-45°	746'
693-02	7+50N, 48+00E	210°/-45°	764'
693-03	16+50N, 60+00E	210°/-45°	762'
693-04	4+50N, 60+00E	210°/-45°	873'
693-05	25+00N, 78+00E	0°/-45°	776'
			<u>3921'</u> TOTAL

GARRISON CREEK OPTION GRAND TOTAL: 31 461'

I.P. (n=5)
 $(\rho a / 2\pi)$
 Ω -m

MAG
 (γ)



- V3 Trachyte
- V6 Andesite
- V7 Basalt
- V9 Tuff
- S Sediments
- S3 Graywacke
- S4 Argillite, shale, slate, phyllite
- M Metamorphosed rocks
- M1 Schist
- 15 Syenite
- 1k Intrusive rhyolite & felsite
- 3G Gabbro
- 3L Lamprophyre
- Porphyry
- Porphyritic
- △ Brecciated
- b Biotite
- c Chlorite
- f Feldspar
- j Carbonate
- v.a. Quartz vein
- Cp Chalcopyrite
- Py Pyrite

FALCONBRIDGE LTD / LTÉE

GARRISON OPTION - PN-605
VERTICAL SECTION
 D.D.H. 605-01

Tracé par: A. GAUTHIER 84-08	Date	
Tracé par: J. A. CARRIER 85-02	Date	
Journal par: J. A. CARRIER	Date	N.T.S.
Logging by: J. A. CARRIER	Date	32 D/5
Dessiné par: GÉODÈS	Date	Plan no:
Drawn by: GÉODÈS	Date	
Révisé par:	Date	
Revised by:	Date	

Scale: 0 1" 200' 200' 400' Échelle: 0 1" 200' 200' 400'

180°

52+00 S

50+00 S

48+00 S

46+00 S

44+00 S

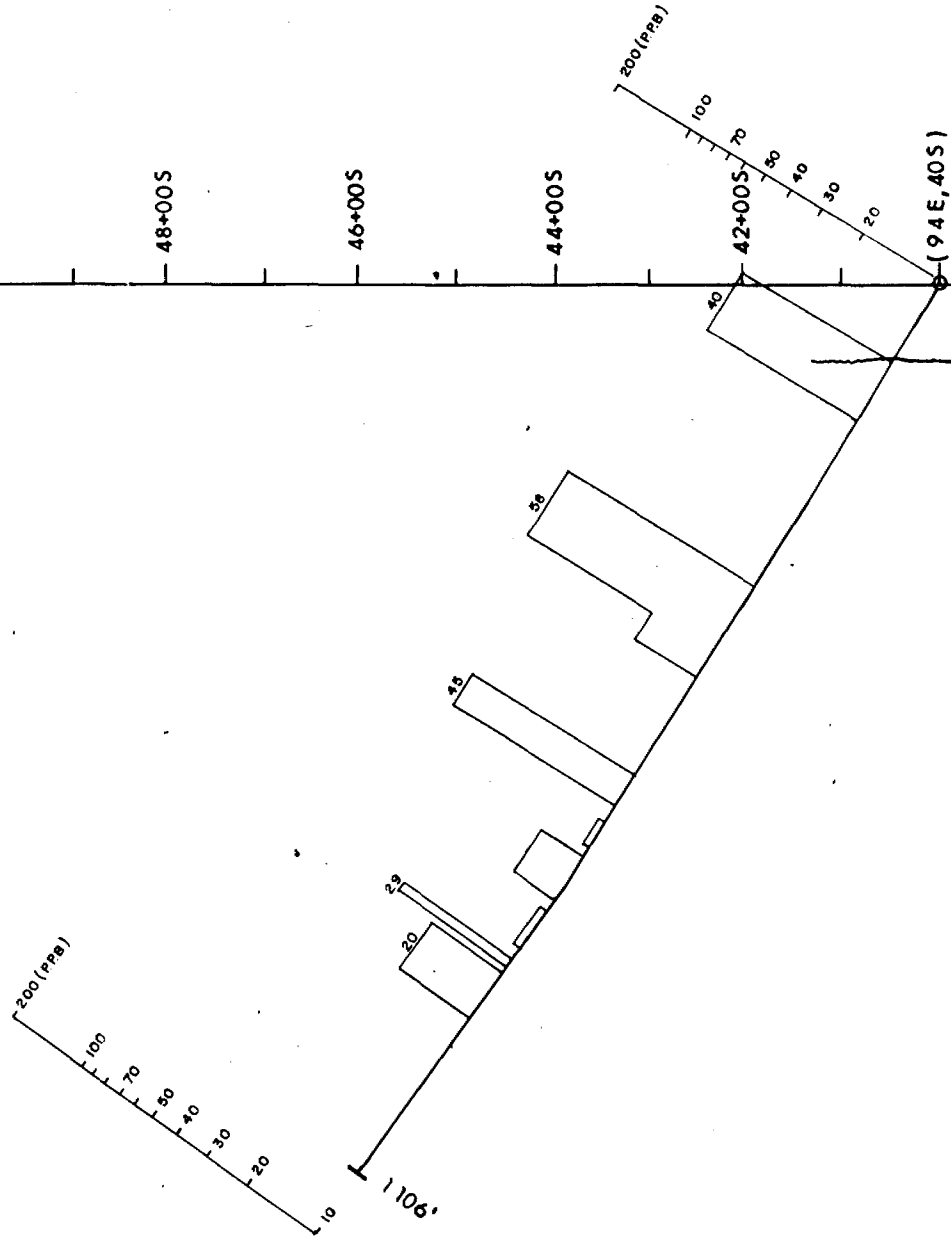
42+00 S

38+00 S

36+00 S

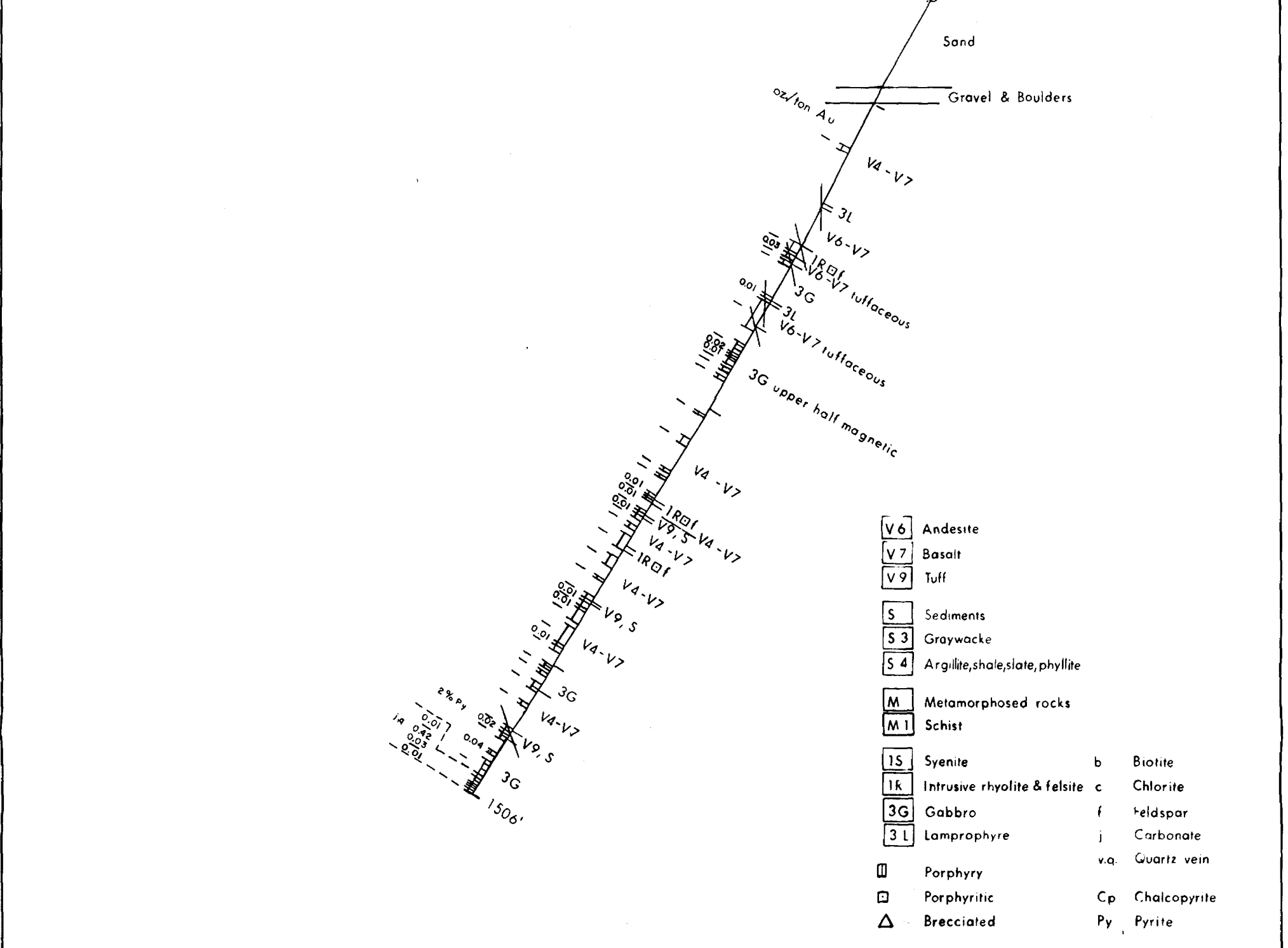
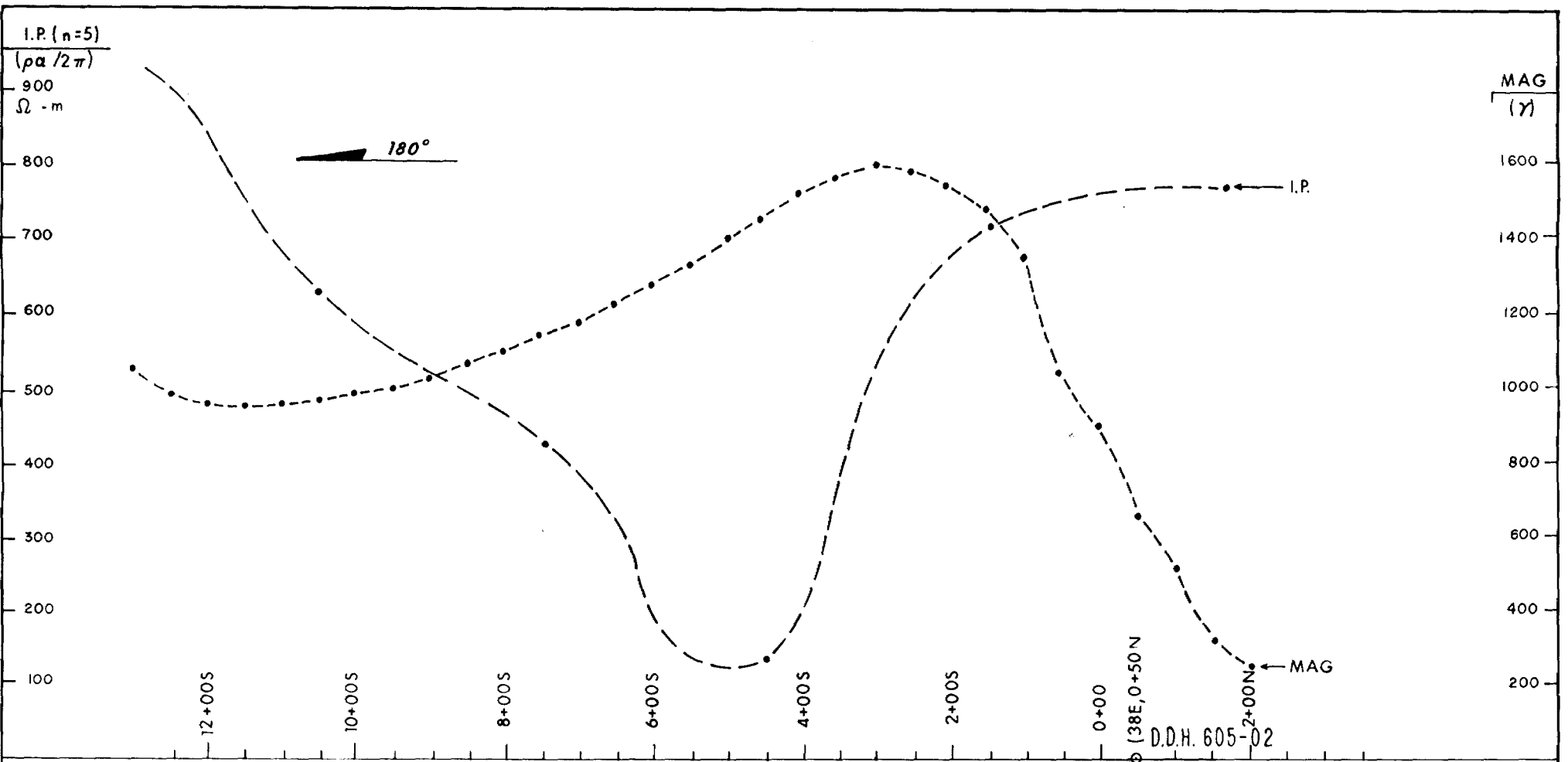
(94 E, 40 S)

D.D.H 605-01




FALCONBRIDGE LTD / LTÉE			
GARRISON OPTION- PN-605			
AU VALUES IN P.P.B.			
D.D.H. 605-01			
Tracé par: A. GAUTHIER 84-08	Date		
Traced by: J. A. CARRIER 85-02			
Journal par: J. A. CARRIER	Date	N.T.S.	
Logging by: J. A. CARRIER	84-07	32 D/5	
Dessiné par: GÉODÈS	Date	Plan no:	
Drawn by:	84-10		
Révisé par:	Date		
Revised by:			
Scale:	1" = 200'	Échelle:	
	0 200'		400'

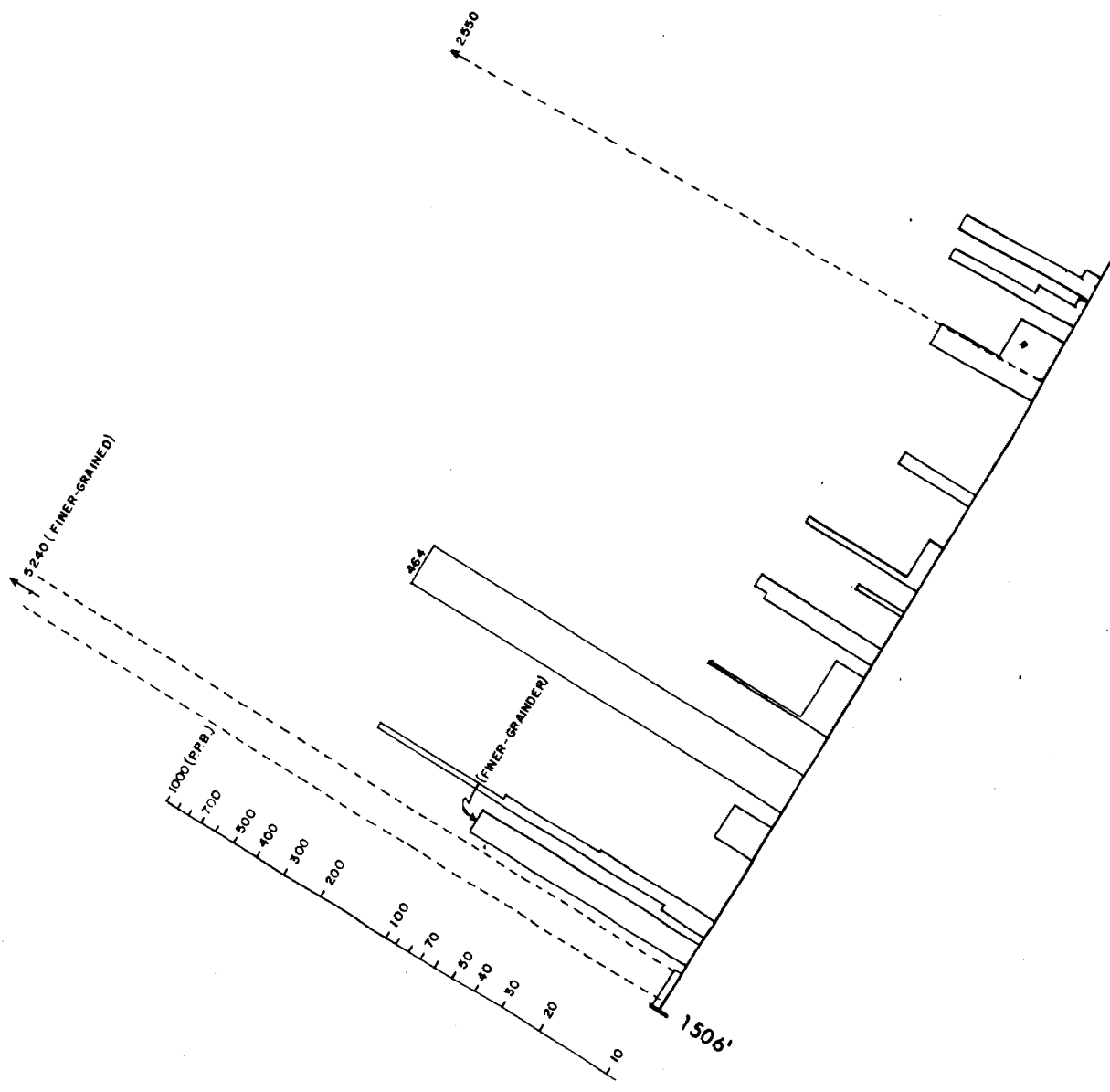
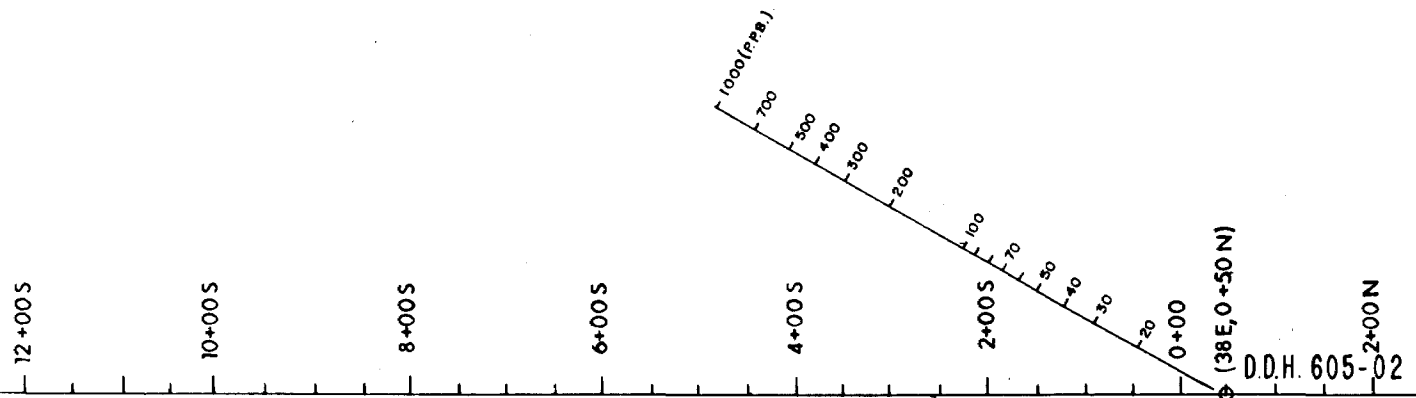
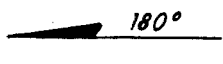




- V6 Andesite
- V7 Basalt
- V9 Tuff
- S Sediments
- S3 Graywacke
- S4 Argillite, shale, slate, phyllite
- M Metamorphosed rocks
- M1 Schist
- 1S Syenite
- 1k Intrusive rhyolite & felsite
- 3G Gabbro
- 3L Lamprophyre
- Porphyry
- ▣ Porphyritic
- △ Brecciated
- b Biotite
- c Chlorite
- f Feldspar
- j Carbonate
- v.q. Quartz vein
- Cp Chalcopyrite
- Py Pyrite

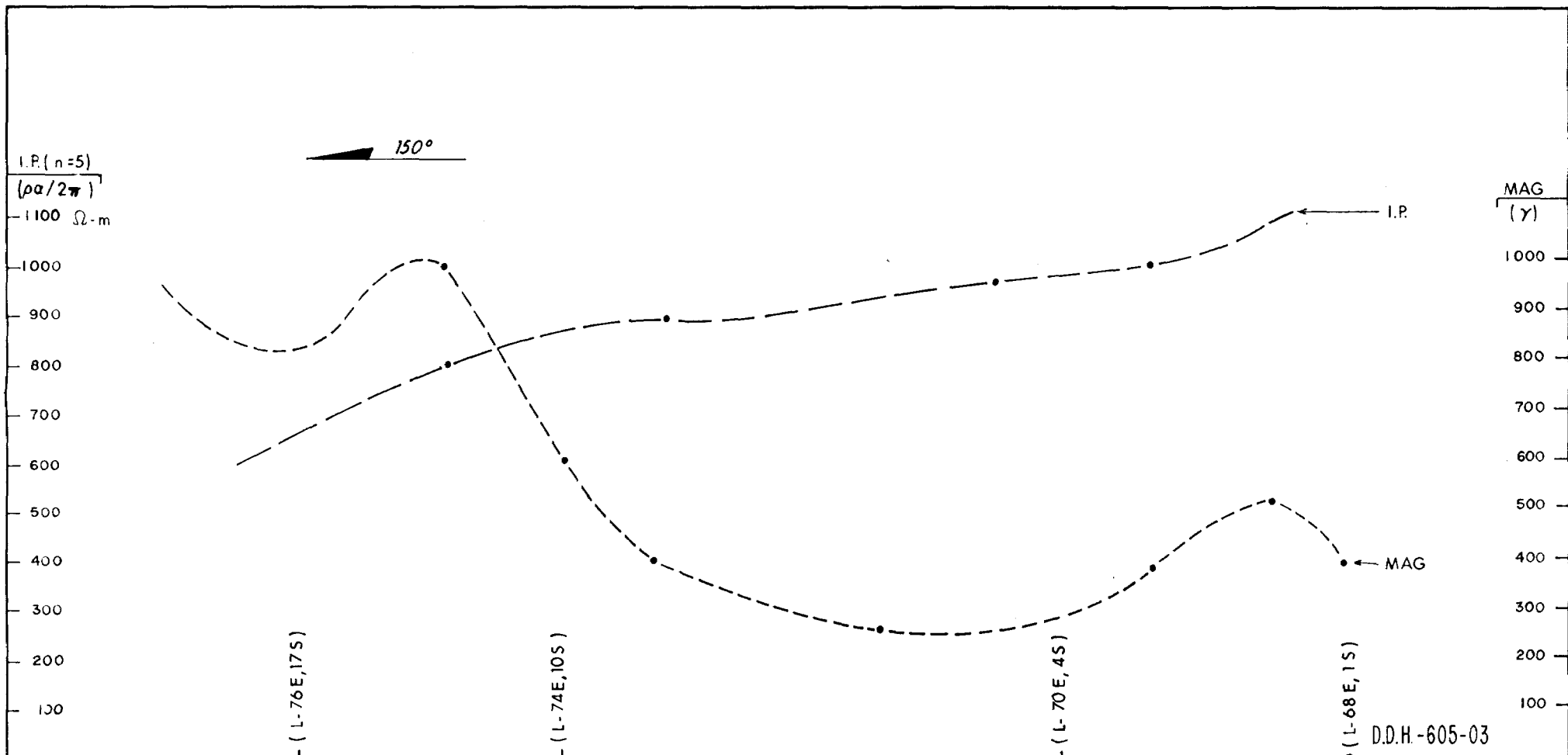
FALCONBRIDGE LTD / LTÉE			
GARRISON OPTION - PN-605			
VERTICAL SECTION			
D.D.H. 605-02			
Tracé par : A. GAUTHIER	84-08	Date	
Traced by : J. A. CARRIER	85-02		
Journal par : J. A. CARRIER	84-10	Date	N.T.S.
Logging by :			32 D/12
Dessiné par : GÉODÈS	85-02	Date	Plan no :
Drawn by :			
Révisé par :		Date	
Revised by :			
Scale:	1" 200'	Echelle:	400'
	0 200'		





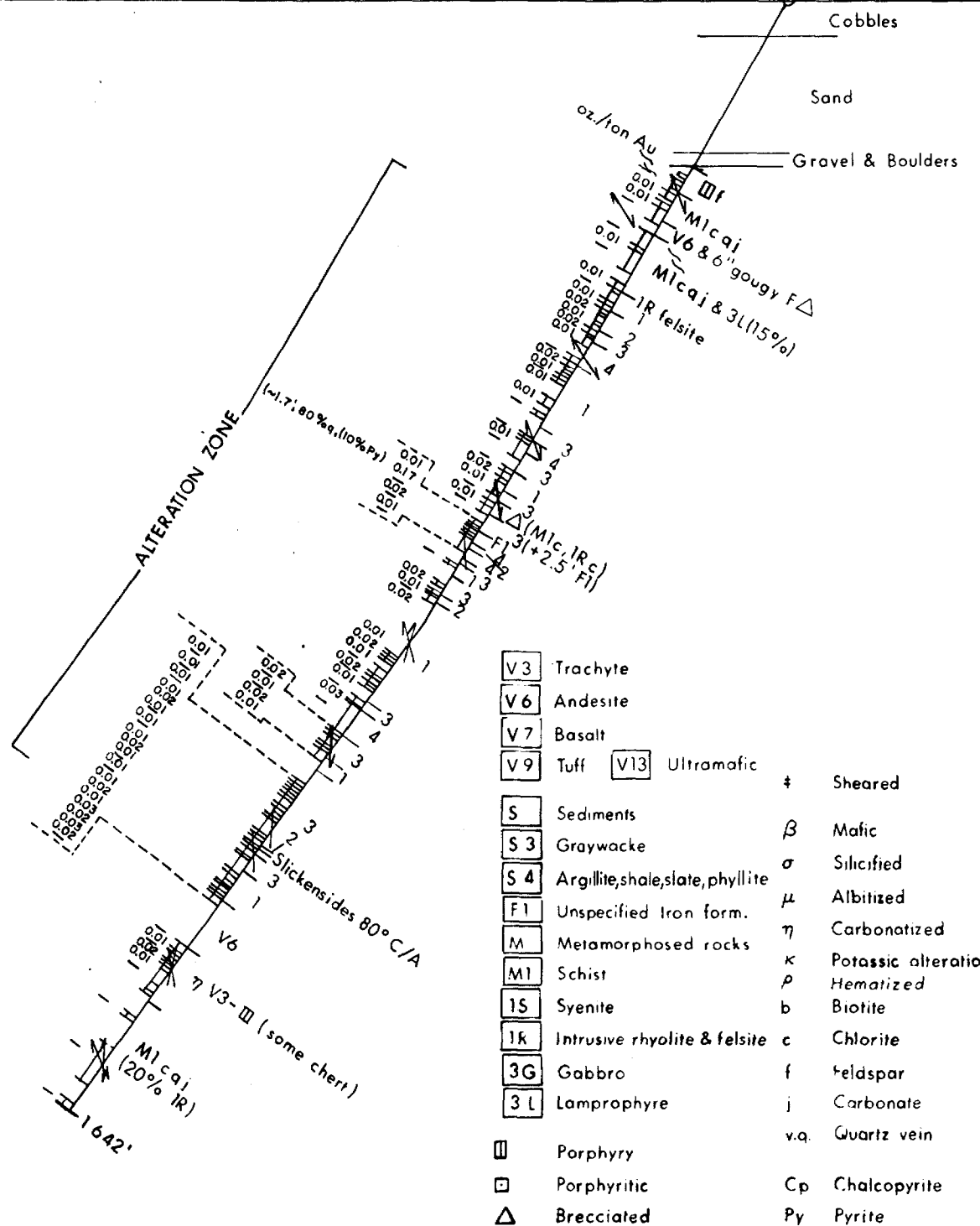
FALCONBRIDGE LTD / LTÉE			
GARRISON OPTION - PN-605			
AU VALUES IN P.P.B.			
D.D.H. 605-02			
Tracé par : A. GAUTHIER	84-08	Date	
Traced by : J.A. CARRIER	85-02		
Journal par : J.A. CARRIER	84-10	Date	N.T.S.
Logging by :			32D/12
Dessiné par : GÉODÈS	84-10	Date	Plan no :
Drawn by :			
Révisé par :		Date	
Revised by :			
Scale:	1" = 200'	Échelle:	
	0 200'		400'





ALTERATION ZONE

1-40% - Beige f \square , λημσ
 2-10% - Red V3, κημσρ, occ. α
 3-40% - Green V13 (>50% magnésite) κλησ
 4-10% - M1, cη



- | | | | |
|-------------|-----------------------------------|------|---------------------|
| V3 | Trachyte | # | Sheared |
| V6 | Andesite | β | Mafic |
| V7 | Basalt | σ | Silicified |
| V9 | Tuff | μ | Albitized |
| V13 | Ultramafic | η | Carbonatized |
| S | Sediments | κ | Potassic alteration |
| S3 | Graywacke | ρ | Hematized |
| S4 | Argillite, shale, slate, phyllite | b | Biotite |
| F1 | Unspecified Iron form. | c | Chlorite |
| M | Metamorphosed rocks | f | Feldspar |
| M1 | Schist | j | Carbonate |
| 15 | Syenite | v.q. | Quartz vein |
| 1k | Intrusive rhyolite & felsite | Cp | Chalcopyrite |
| 3G | Gabbro | Py | Pyrite |
| 3L | Lamprophyre | | |
| \square | Porphyry | | |
| \square | Porphyritic | | |
| \triangle | Brecciated | | |

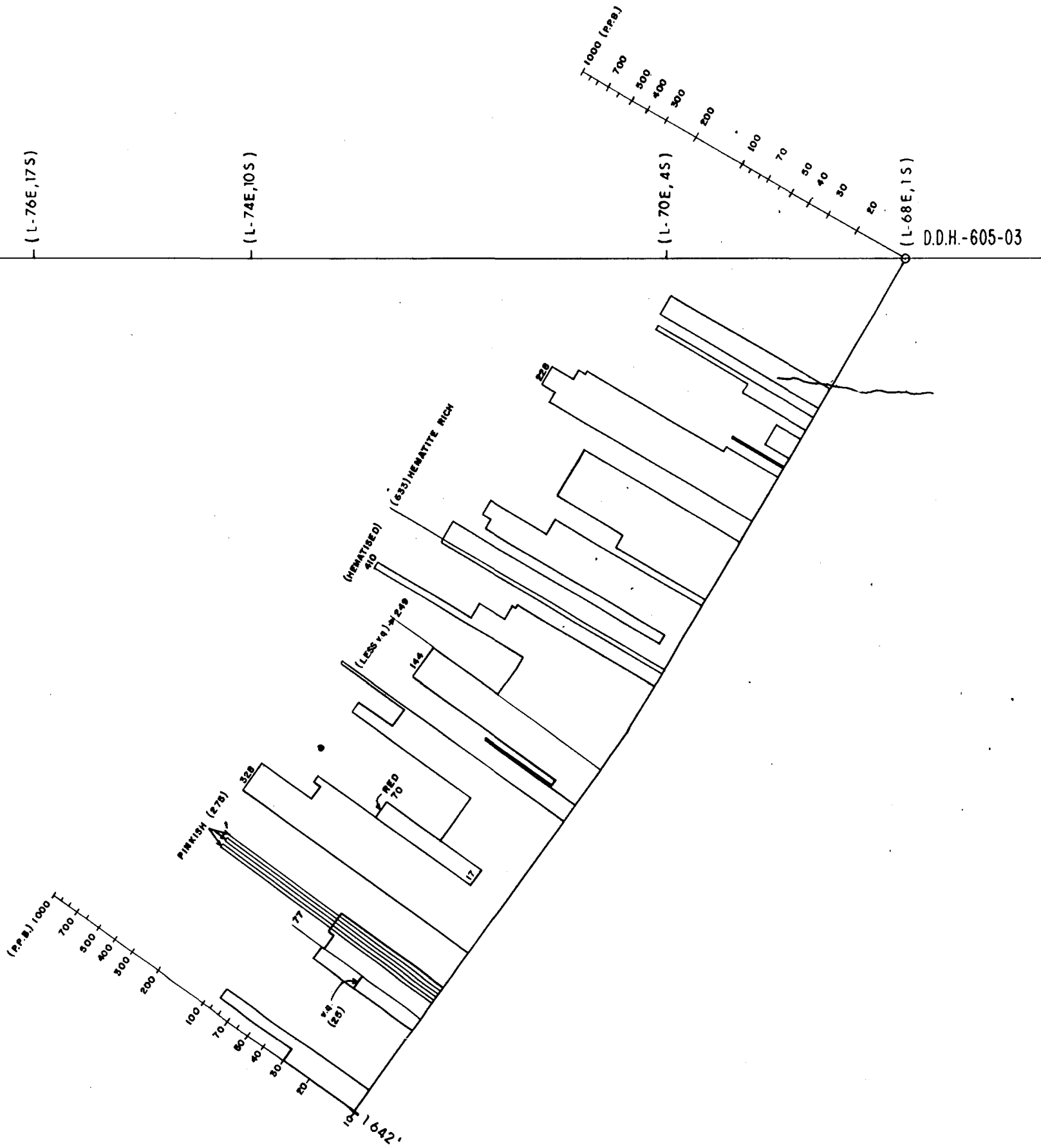
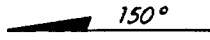
FALCONBRIDGE LTD / LTÉE

GARRISON OPTION - PN-605

VERTICAL SECTION

D.D.H. 605-03

Tracé par : A GAUTHIER 84-08 Date
 Traced by : J.A. CARRIER 85-02



FALCONBRIDGE LTD/LTÉE

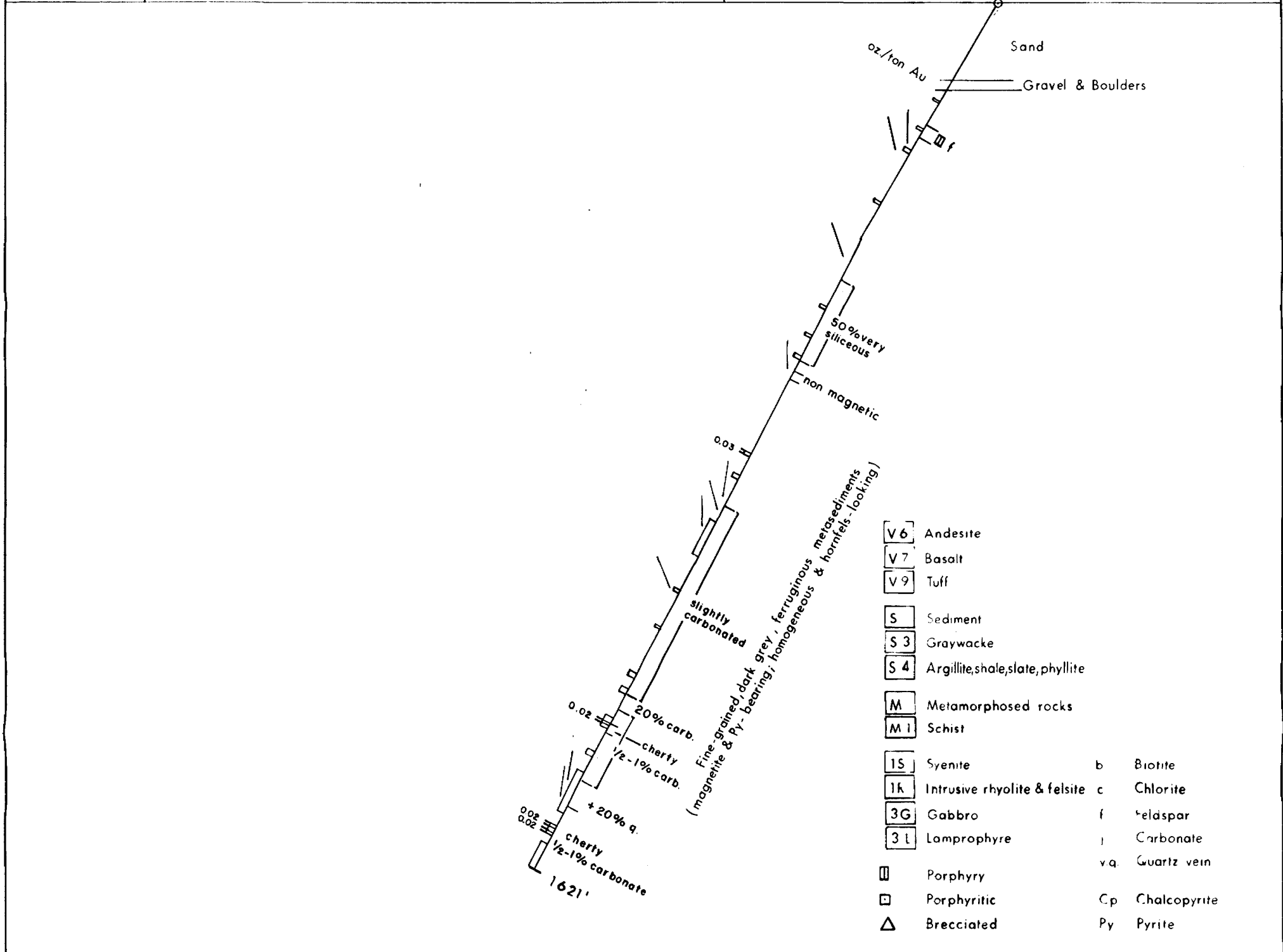
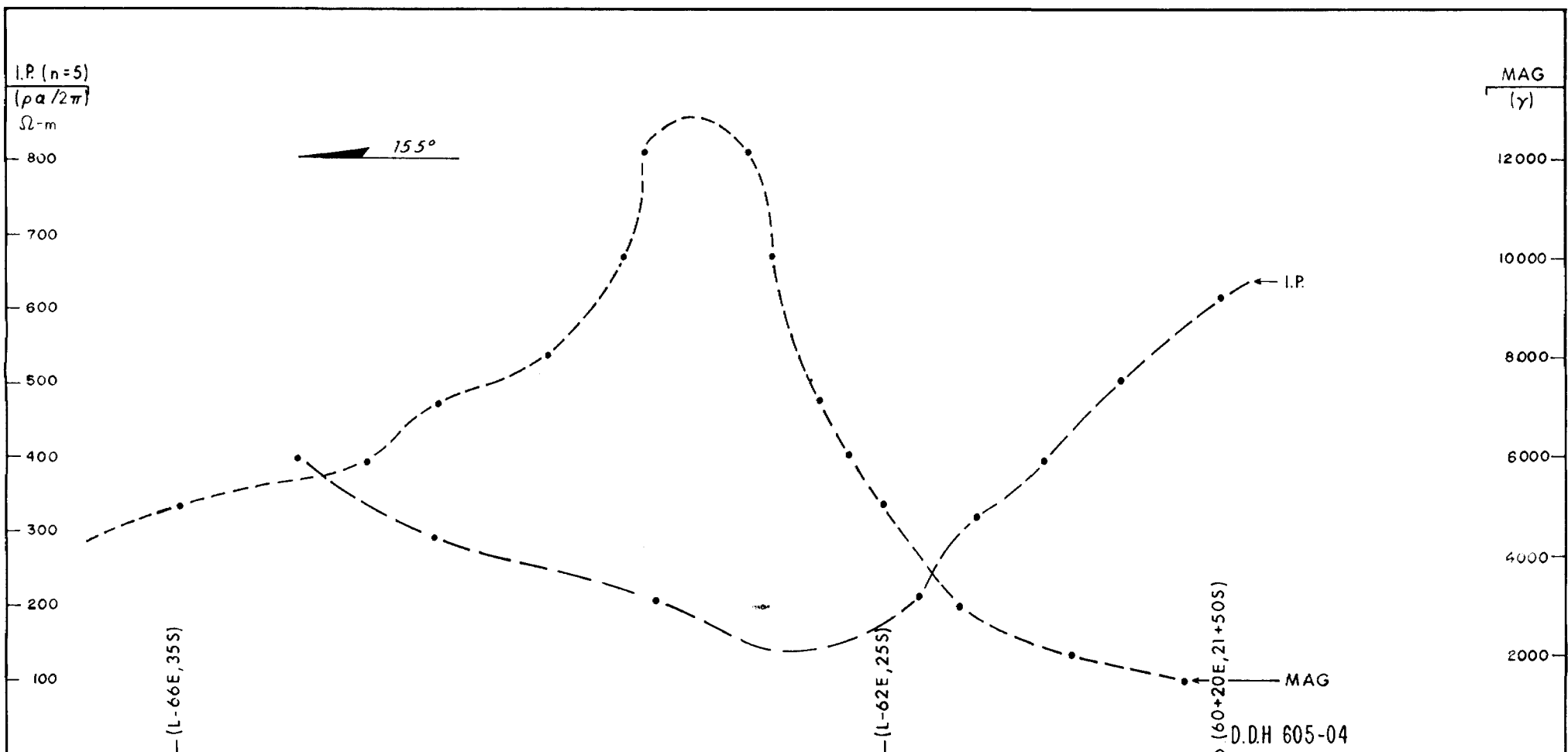
GARRISON OPTION-PN-605
 AU VALUES IN P.P.B.
 D.D.H. 605-03

Tracé par: A. GAUTHIER 84-08 Date

Traced by: J.A. CARRIER 85-02

Journal par: J.A. CARRIER Date N.T.S. 32D/12

Dessiné par: Date Plan no:

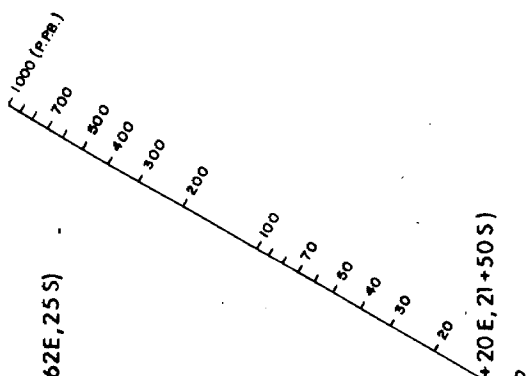


FALCONBRIDGE LTD / LTÉE
GARRISON OPTION - PN-605
VERTICAL SECTION
D.D.H. 605-04

Tracé par: A. GAUTHIER 84-08 Date
Tracé by: J. A. CARRIER 85-02

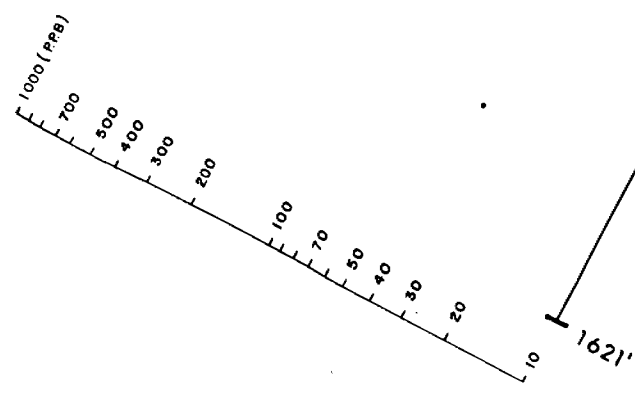
155°

(L-66E, 35S)



(L-62E, 25S)

(60+20 E, 21+50 S)
D.D.H. 605-04



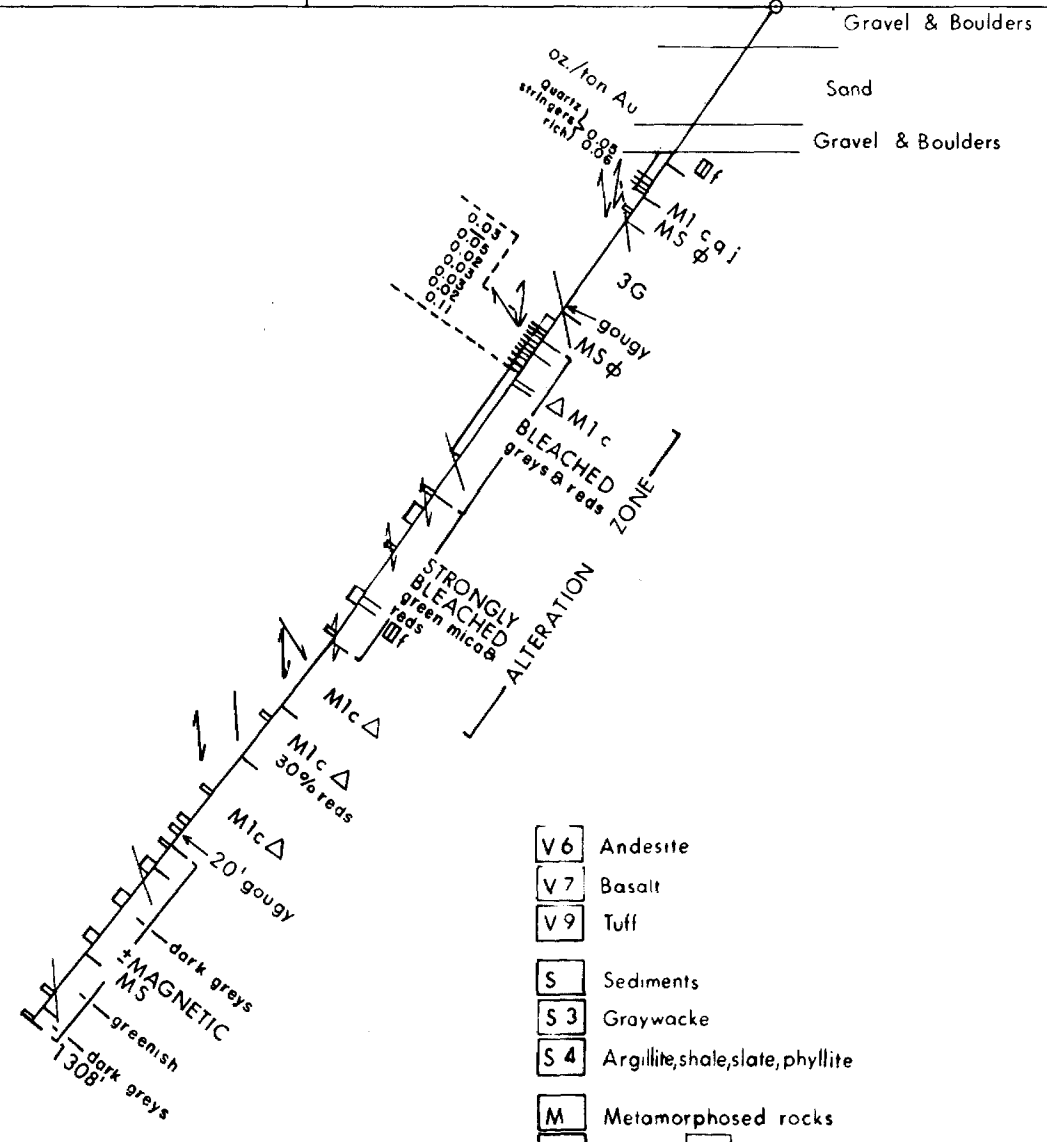
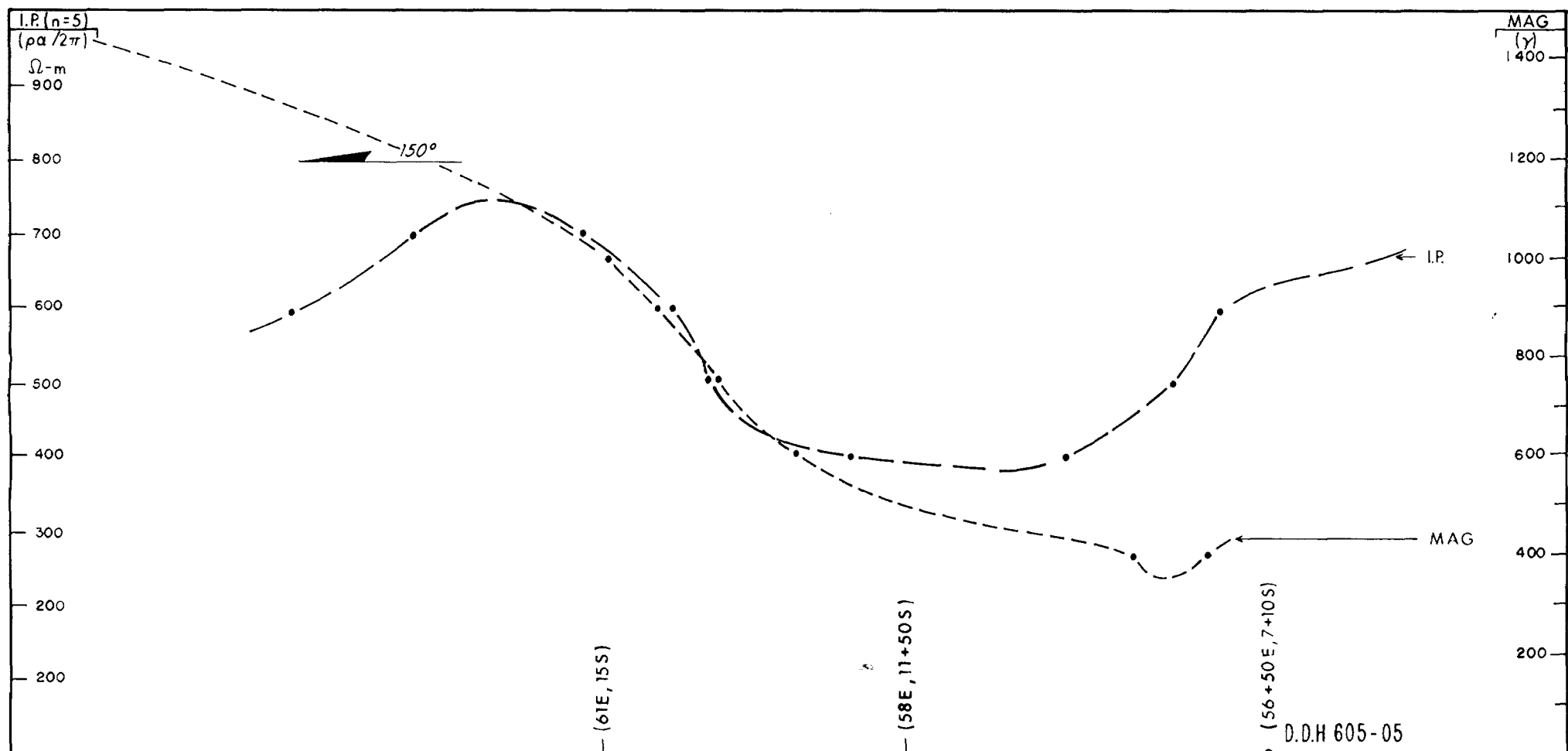
1621'

FALCONBRIDGE LTD / LTÉE

GARRISON OPTION - PN-605
AU VALUES IN P.P.B.
D.D.H. 605-04

Tracé par: A. GAUTHIER 84-08 Date
Traced by: J.A. CARRIER 85-02

Journal par: J.A. CARRIER Date 84-08 N.T.S:
Logging by: J.A. CARRIER 84-08 32D/5



- | | | | |
|-----------|-----------------------------------|------|--------------|
| V 6 | Andesite | b | Biotite |
| V 7 | Basalt | c | Chlorite |
| V 9 | Tuff | f | Feldspar |
| S | Sediments | j | Carbonate |
| S 3 | Graywacke | v.q. | Quartz vein |
| S 4 | Argillite, shale, slate, phyllite | Cp | Chalcopyrite |
| M | Metamorphosed rocks | Py | Pyrite |
| M 1 | Schist | | |
| MS | Metasediments | | |
| 15 | Syenite | | |
| 1k | Intrusive rhyolite & felsite | | |
| 3G | Gabbro | | |
| 3L | Lamprophyre | | |
| \square | Porphyry | | |
| \square | Porphyritic | | |
| Δ | Brecciated | | |

FALCONBRIDGE LTD / LTÉE

GARRISON OPTION - PN-605

VERTICAL SECTION

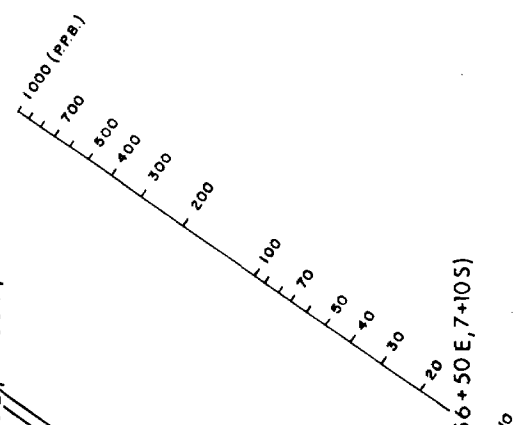
D.D.H. 605-05

Tracé par: A. GAUTHIER 84-08 Date
Traced by: J. A. CARRIER 85-02



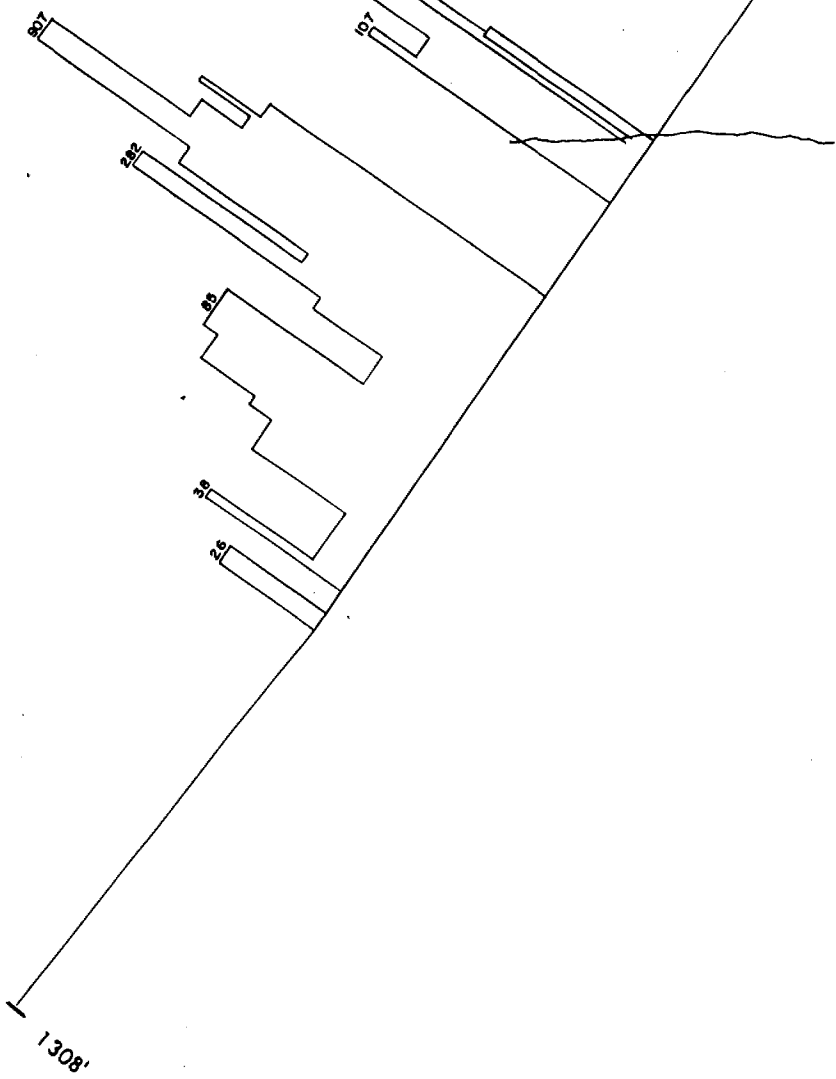
(61E, 15S)

523 (v.e.)
530
(58E, 11+50S)

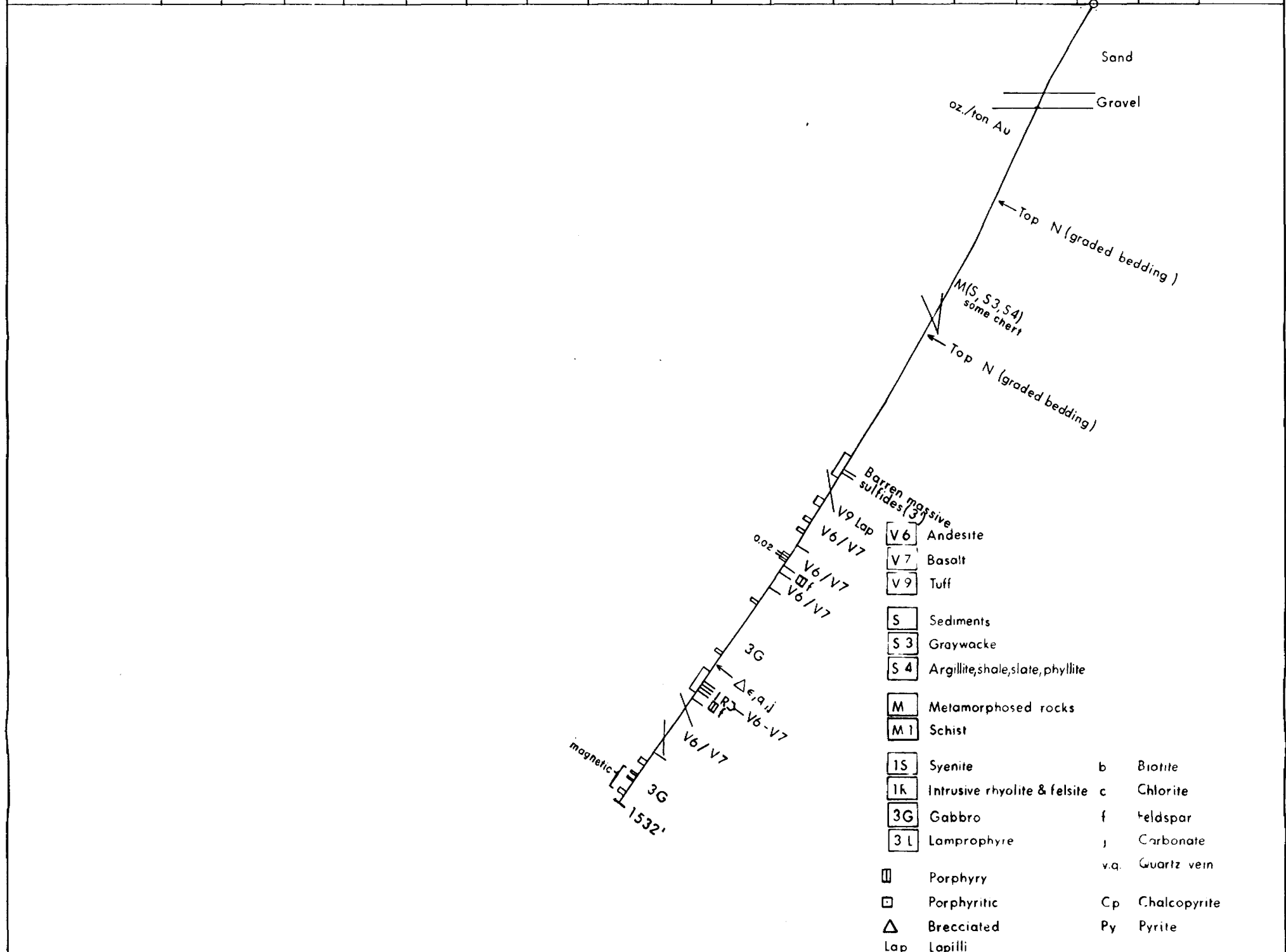
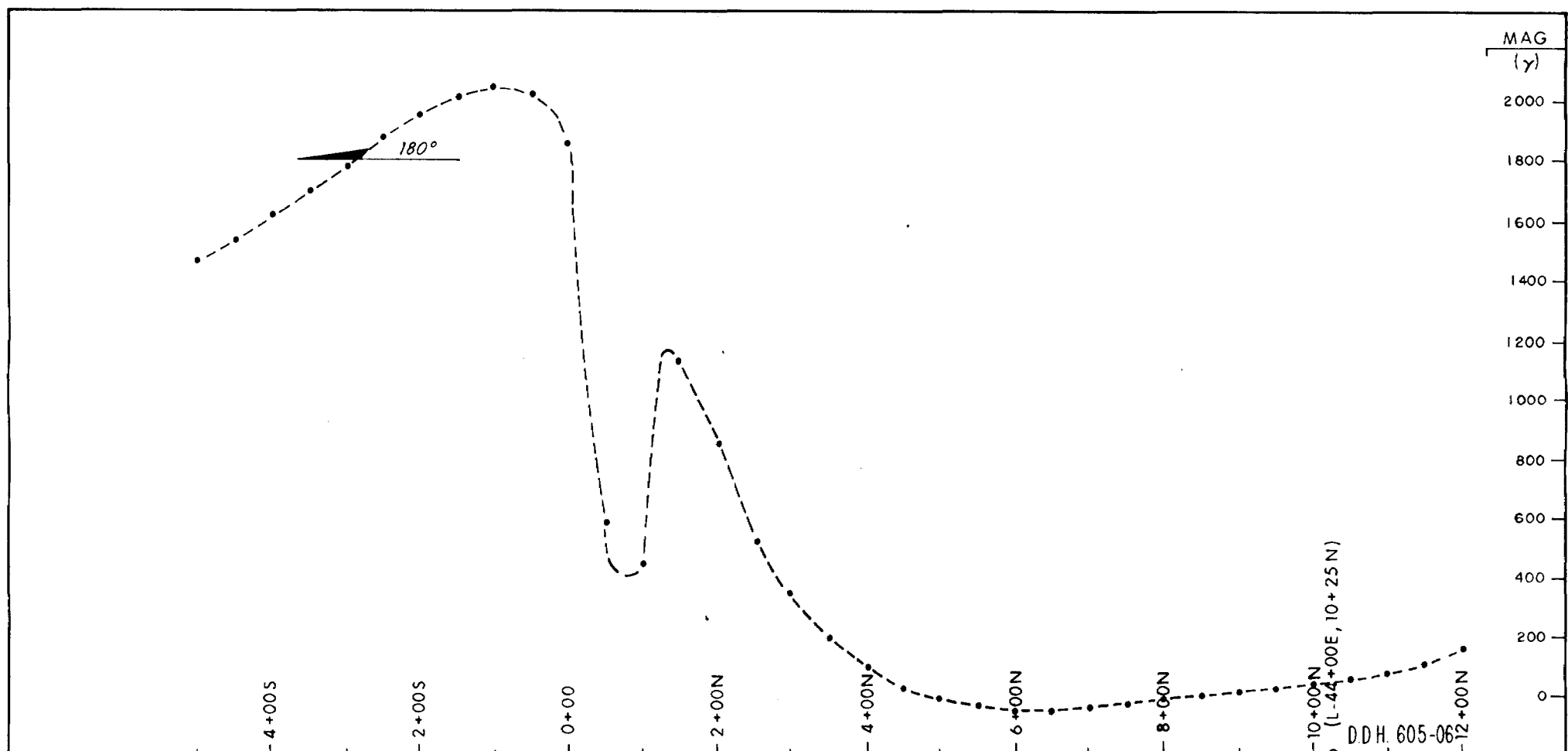


(56+50E, 7+10S)

D.D.H. 605-05



FALCONBRIDGE LTD/LTÉE		
GARRISON OPTION - PN-605		
AU VALUES IN P.P.B.		
D.D.H. 605-05		
Tracé par: A. GAUTHIER	84-08	Date
Traced by: J. A. CARRIER	85-02	
Journal par:	Date	N.T.S:
Logging by: J. A. CARRIER	84-08	32D/12



FALCONBRIDGE LTD / LTÉE
GARRISON OPTION - PN-605
VERTICAL SECTION
D.D.H. 605-06

Tracé par : A. GAUTHIER 84-08 Date
Tracé by : J.A. CARRIER 85-02



4+00 S

2+00 S

0+00

2+00 N

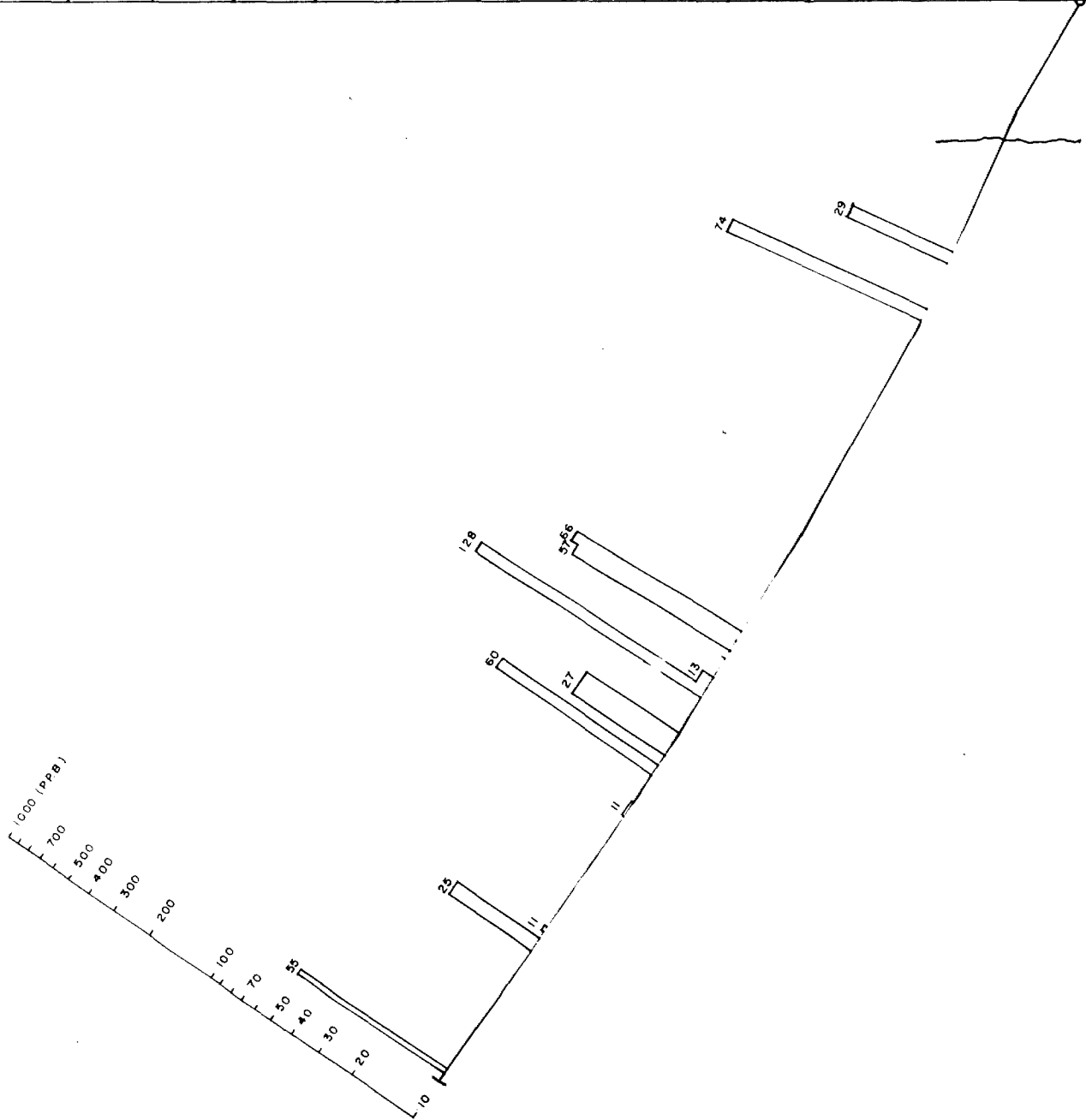
4+00 N

6+00 N

8+00 N

10+00 N
(L-44+00E, 10+25 N)

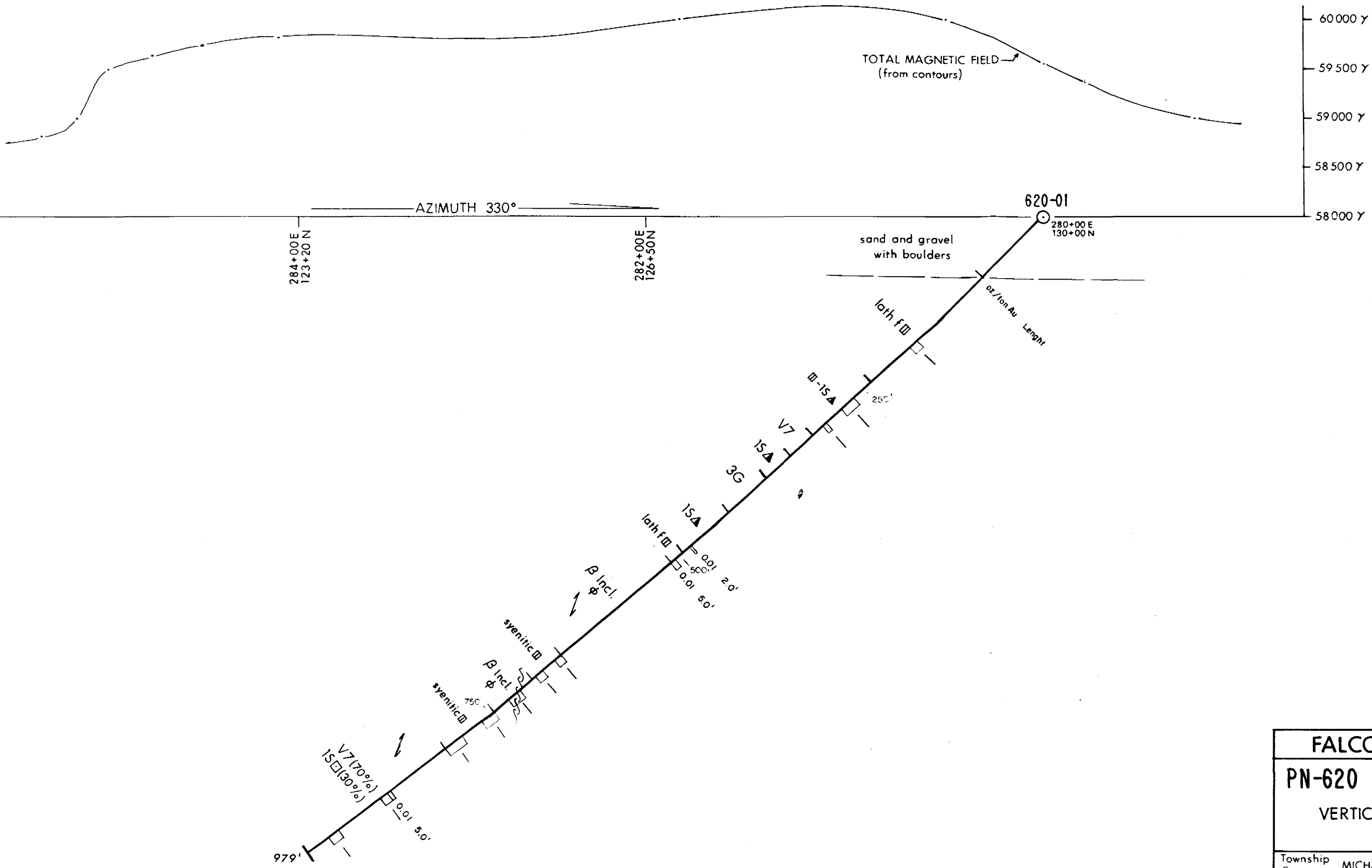
D.D.H. 605-06 12+00 N



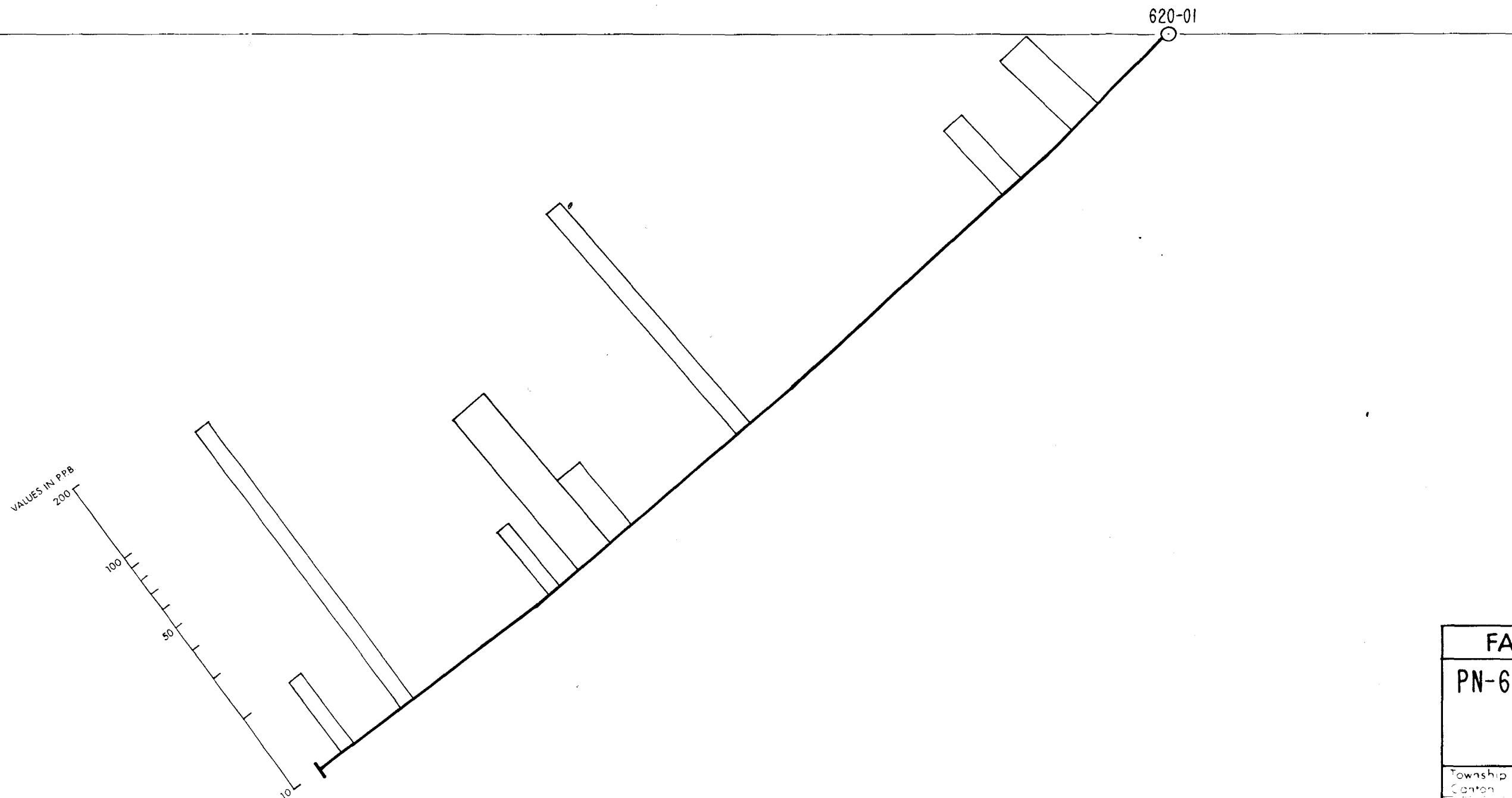
FALCONBRIDGE LTD / LTÉE

GARRISON OPTION - PN-605
AU VALUES IN P.P.B.
D.D.H. 605-06

Tracé par: A. GAUTHIER	84-08	Date	
Traced by: J.A. CARRIER	85-02		
Journal par: J. A. CARRIER		Date	NTS:
Logging by: J. A. CARRIER		84/10	32 D/12



FALCONBRIDGE LTD/LTÉE		
PN-620 MICHAUD PROPERTY		
VERTICAL SECTION 280+00E		
D.D.H. N°620-01		
Township Canton:	MICHAUD	Ciam 40910
Logged by Journal par:	J. André Carrier	Date sept. 1984
Drawn by Dessiné par:	Geodes	feb. 1985
Revised by Révisé par:		
SCALE / ÉCHELLE 1:1200		



FALCONBRIDGE LTD/LTÉE

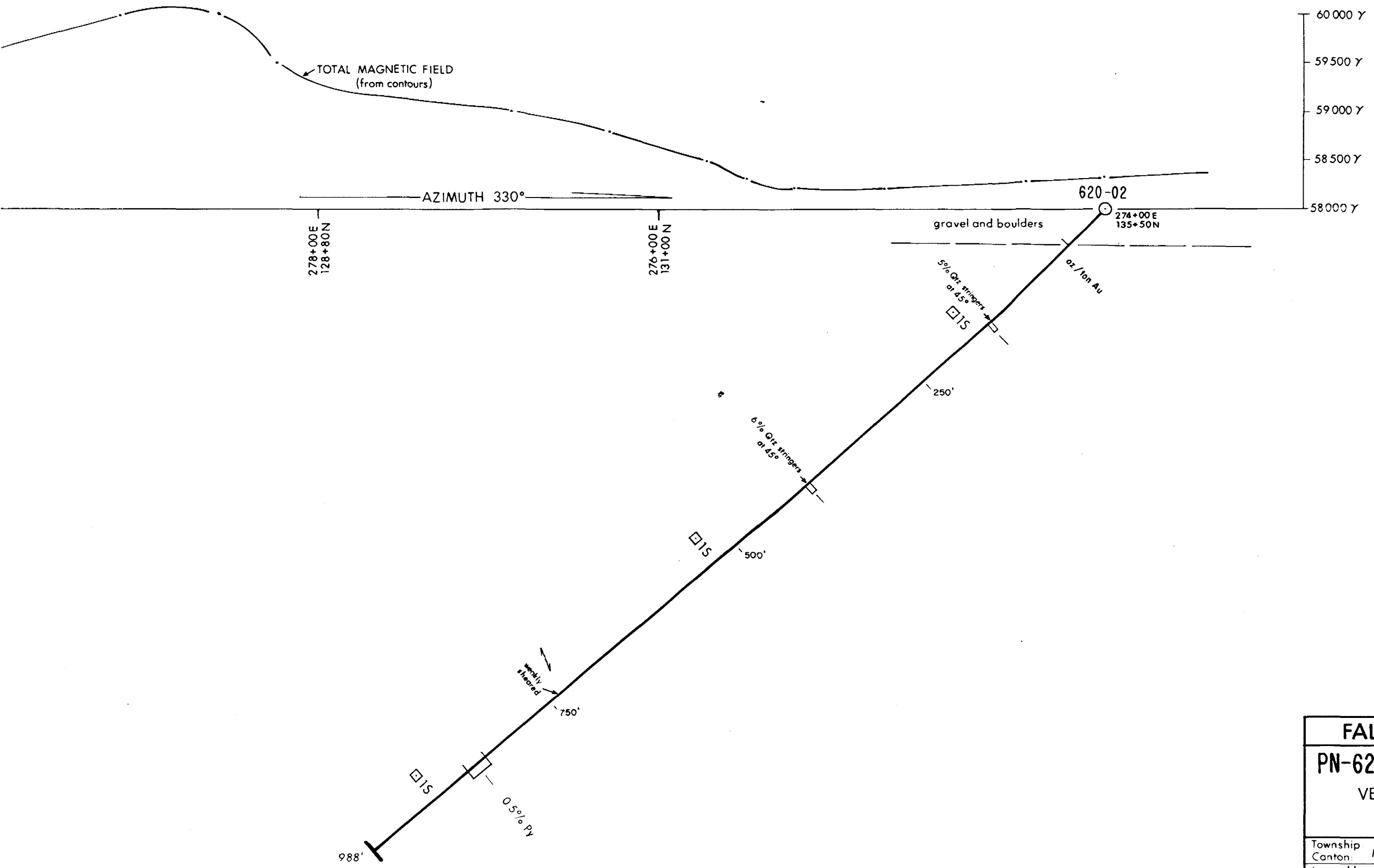
PN-620 MICHAUD PROPERTY

Histogram - Au in p.p.b.

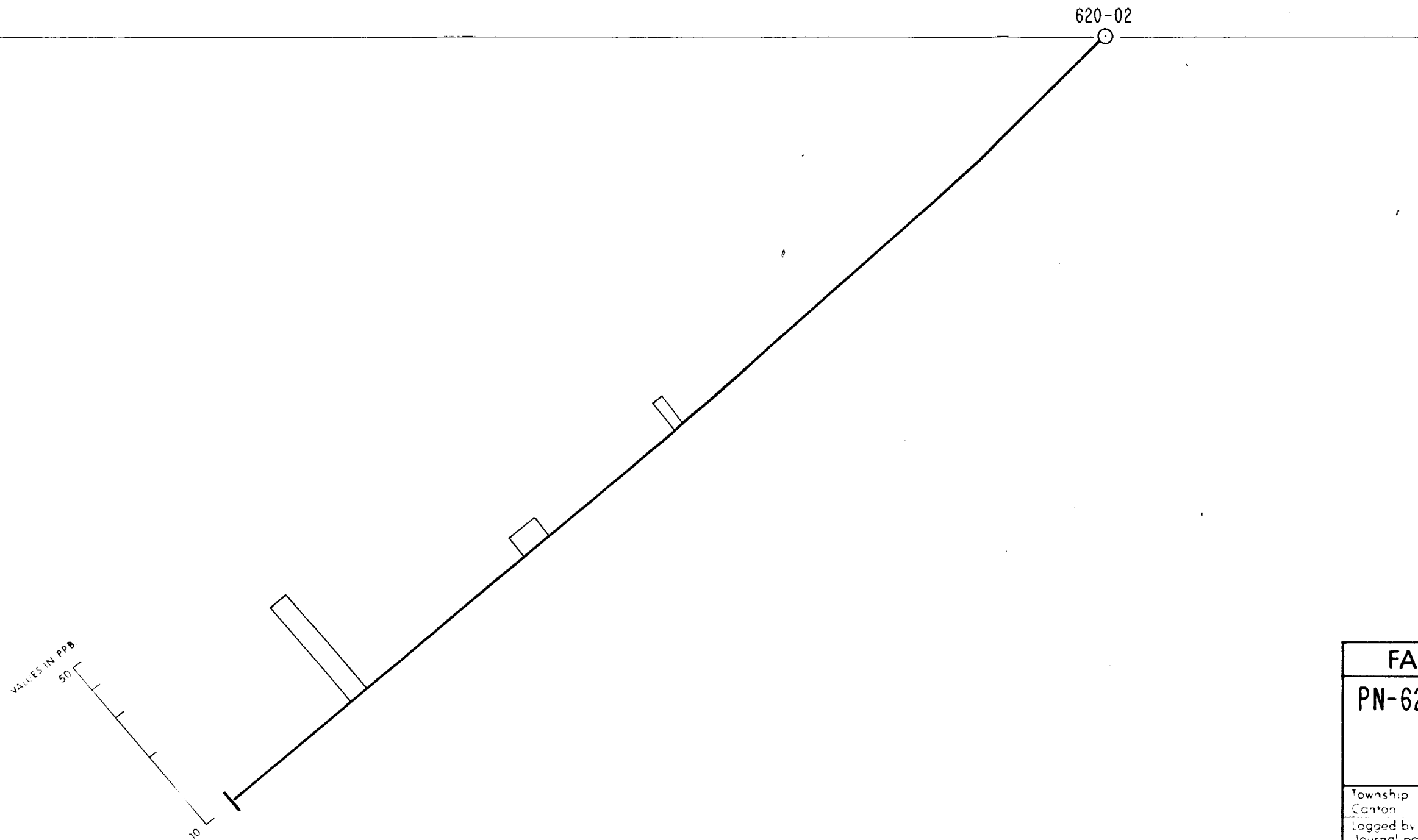
DDH. N° 620-01

Township	MICHAUD	40910	NTS
Center			
Logged by		Date	42A/8
Journal par			Plan N°
Drawn by	Geodes	feb. 1985	
Dessiné par			
Revised by			
Revisé par			
SCALE / ÉCHELLE	1:200		
	0	100'	200'

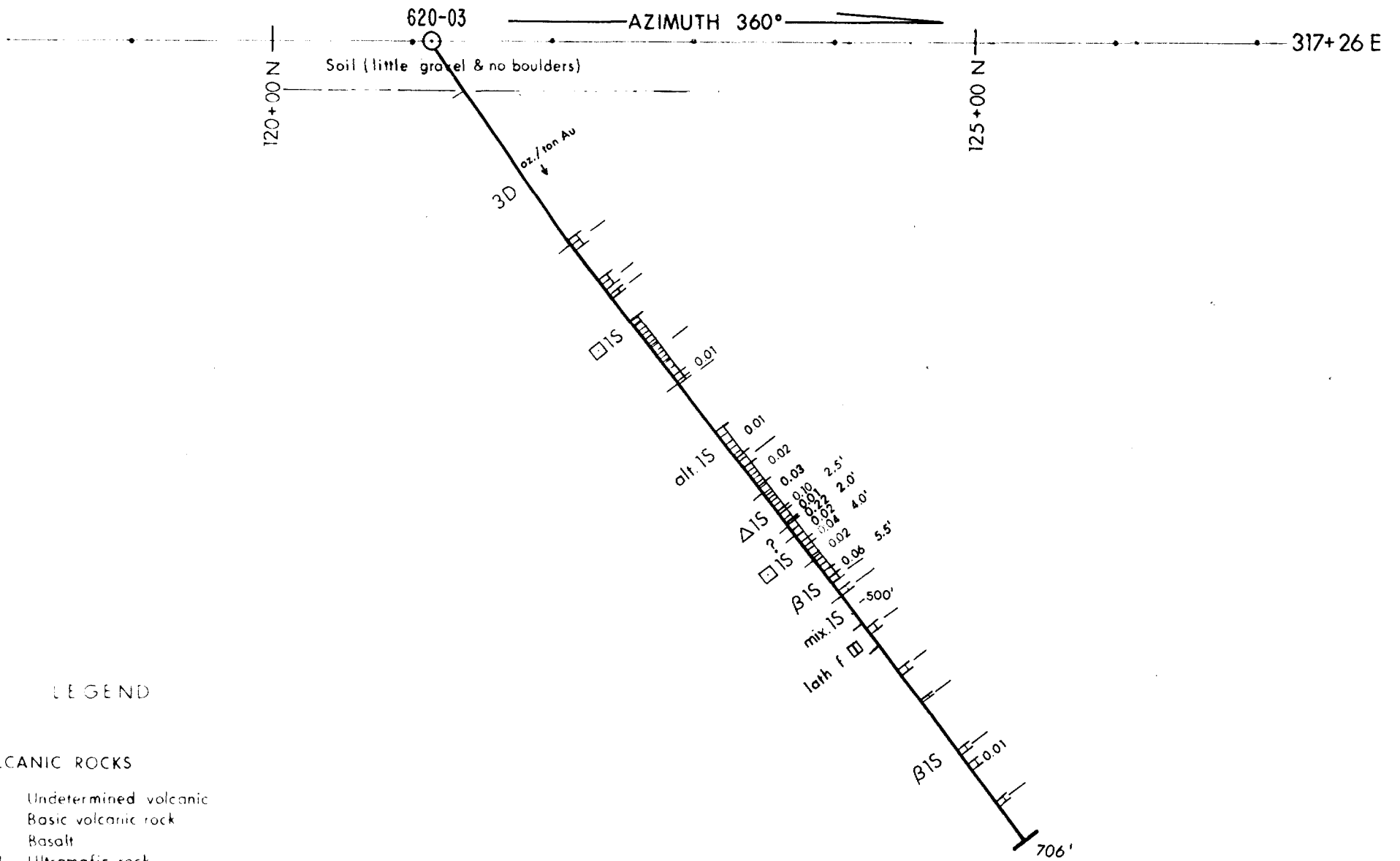




FALCONBRIDGE LTD/LTÉE		
PN-620 MICHAUD PROPERTY		
VERTICAL SECTION 274+00 E		
D.D.H. N°620-02		
Township Canton: MICHAUD	Claim 40909 40910	NTS. 42A/8
Logged by: Journal par: J. André Carrier	Date oct. 1984	Plan N°
Drawn by: Dessiné par: Geodes	feb. 1985	
Revised by: Revisé par:		
SCALE / ÉCHELLE 1:1200		



FALCONBRIDGE LTD/LTÉE			
PN-620 MICHAUD PROPERTY			
Histogram - Au in p.p.b.			
DDH. N° 620-02			
Township Canton	Claim MICHAUD	40909 40910	NTS 42A/8
Logged by Journal par			Date Plan N°
Drawn by Dessiné par	Geodes	feb. 1985	
Revised by Révisé par			
SCALE / ÉCHELLE 1:1200			



LEGEND

VOLCANIC ROCKS

- V Undetermined volcanic
- V5 Basic volcanic rock
- V7 Basalt
- V13 Ultramafic rock

INTRUSIVE ROCKS

- IS Syenite
- IX Aplite
- 3D Diabase
- 3G Gabbro

SUFFIX FOR STRUCTURE & TEXTURE

- ☐ Porphyry (more than 50% of phenocrysts)
- ⌈ Porphyritic (10 to 50% of phenocrysts)
- f Sheared
- △ Breccia

MINERAL SUFFIX

- c Chlorite
- f Feldspar
- qv Quartz vein

COMPOSITION SUFFIX

- a Felsic
- B Mafic


ALTERATION SUFFIX

- φ Chloritized
- o Silicified

ABBREVIATIONS

- alt. altered
- chl chloritic
- flt. feldted
- mic. microfractured
- mix. mixed
- syen. syenitized
- tra. trachytic
- Incl. Inclusion

FALCONBRIDGE LTD./LTÉE
PN-620 MICHAUD PROPERTY
 VERTICAL SECTION 317+26E
 D.D.H. N° 620-03

Township Canton	MICHAUD	Claim' 40917	NTS 42A/8
Logged by Journal par.	Magloire Bérubé	date oct. 1984	Plan N°
Drawn by Dessiné par.	Géodès	date feb. 1985	
Revised by Révisé par		date	
SCALE / ÉCHELLE 1:1200			

VALUES IN P.P.B

2000

1000

500

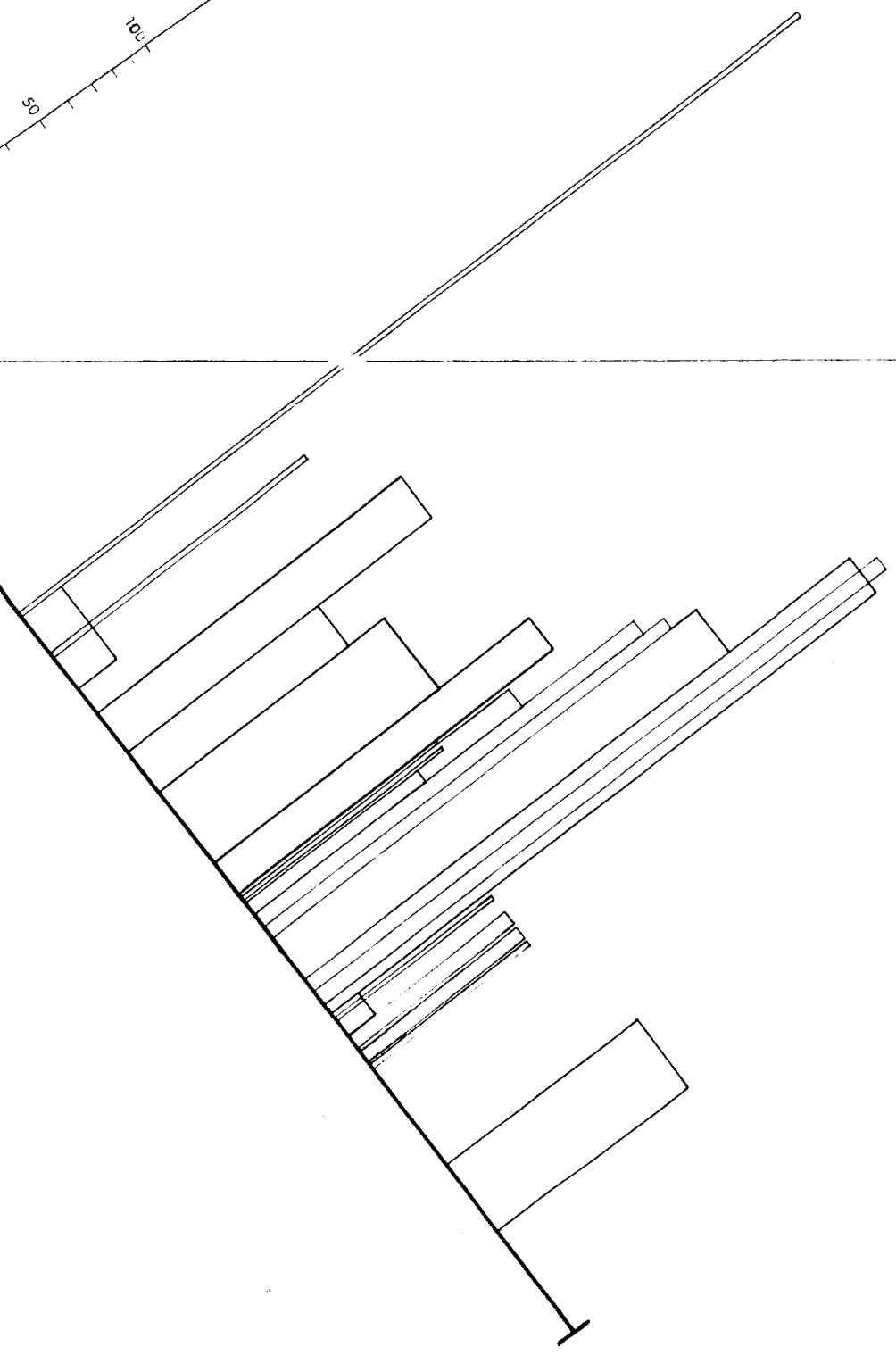
100

50

20

10

620-03



FALCONBRIDGE LTD/LTÉE

PN-620 MICHAUD PROPERTY

Histogram - Au in pp.b.

U.D.H. N° 620-03

Township: Canton:	MICHAUD	Claim:	40917	N.T.S. 42A/8,9
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Logged by:		date	
Journal par:		date	

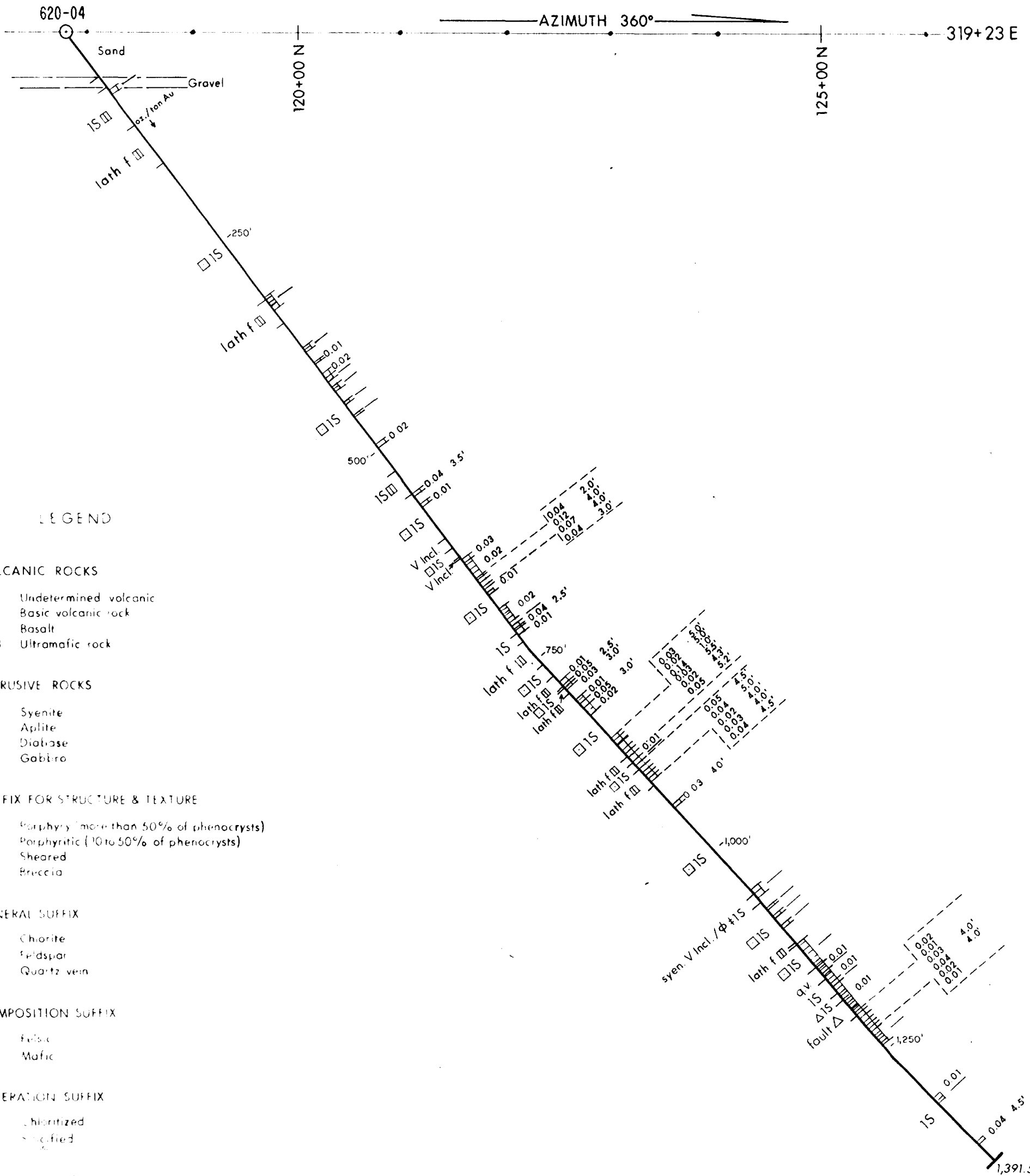
Drawn by:	Geodes	date	
Dessiné par:		Feb. 1985	

Revised by:		date	
Revisé par:			

SCALE / ÉCHELLE 1:1200

0 100' 200'





LEGEND

VOLCANIC ROCKS

- V Undetermined volcanic
- V5 Basic volcanic rock
- V7 Basalt
- V13 Ultramafic rock

INTRUSIVE ROCKS

- IS Syenite
- IX Aplite
- 3D Diabase
- 3G Gabiro

SUFFIX FOR STRUCTURE & TEXTURE

- IP Porphyry (more than 50% of phenocrysts)
- LI Porphyritic (10 to 50% of phenocrysts)
- f Sheared
- Δ Breccia

MINERAL SUFFIX

- Ch Chlorite
- f Feldspar
- qv Quartz vein

COMPOSITION SUFFIX

- α Felsic
- β Mafic

ALTERATION SUFFIX

- φ Chloritized
- o Sulfidated

ABBREVIATIONS

- alt. altered
- chl. chloritic
- flt. foliated
- mic. microfractured
- mix. mixed
- syen. syenitized
- tra. trachytic
- Incl. Inclusion

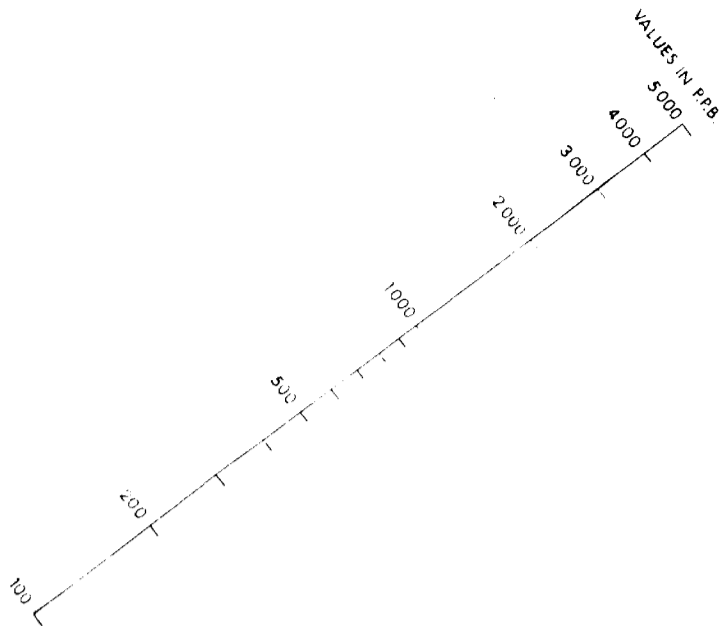
FALCONBRIDGE LTD./LTÉE

PN-620 MICHAUD PROPERTY

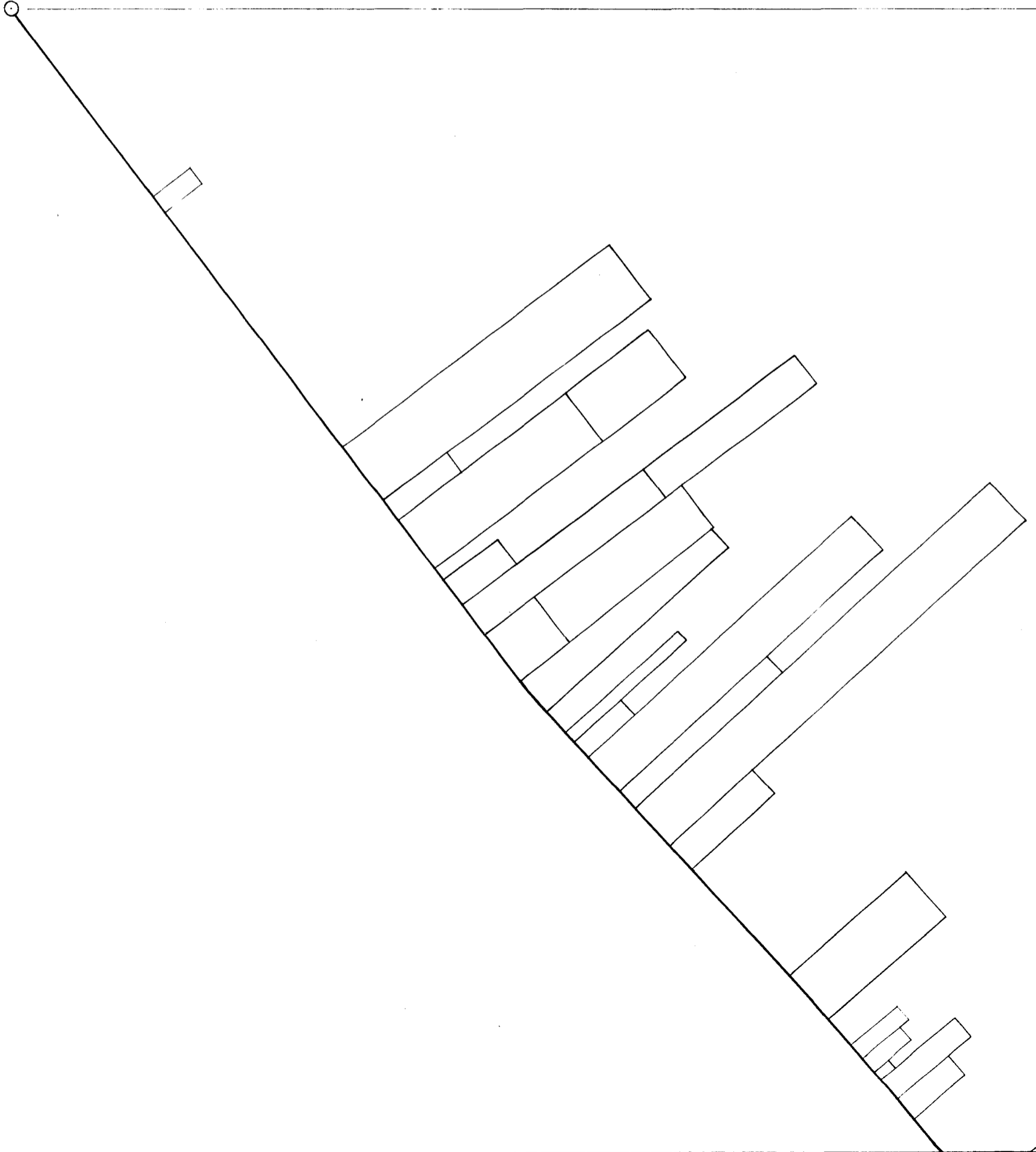
VERTICAL SECTION 319+23 E

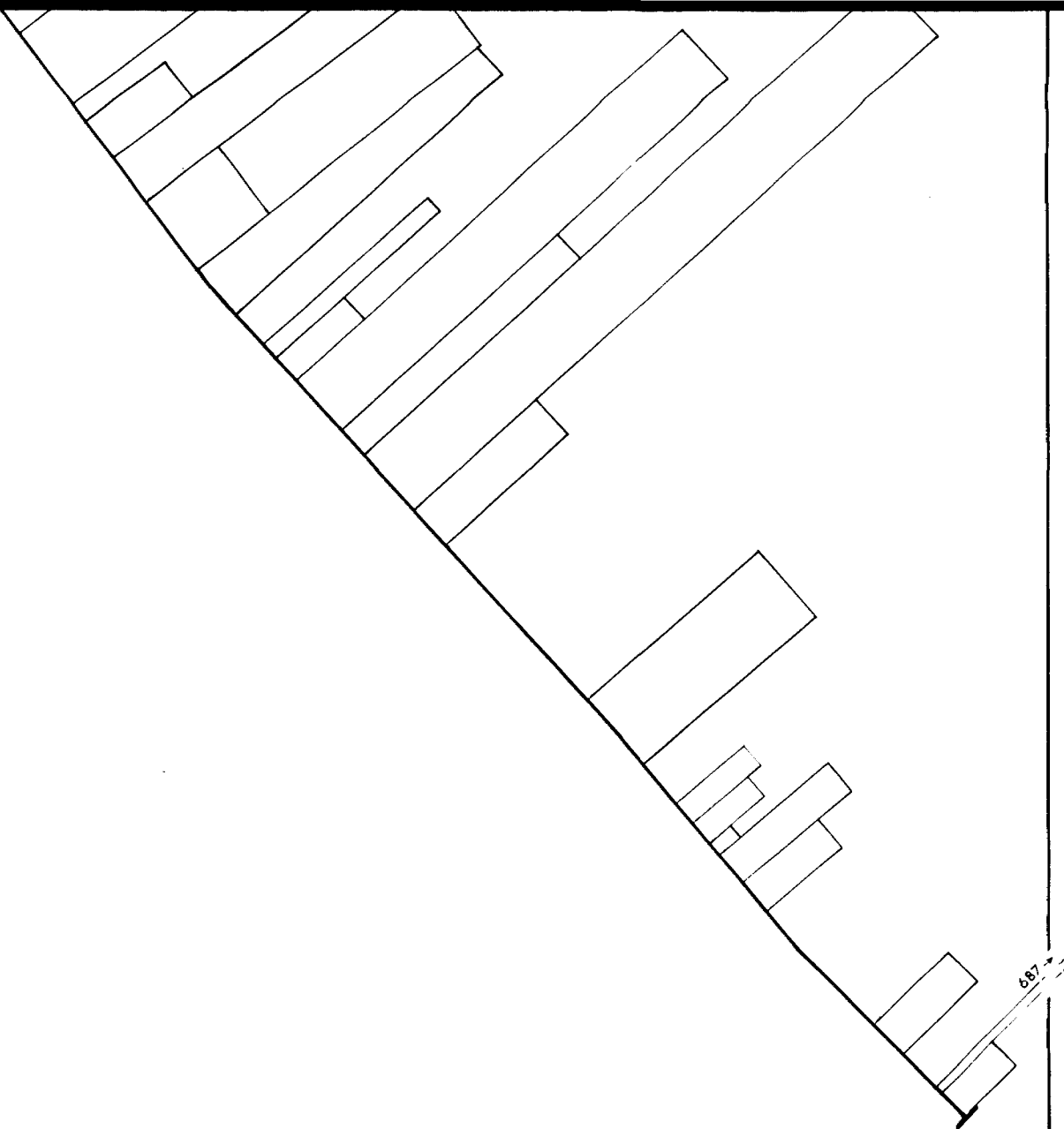
DD.H. N° 620-04

Township Location	MICHAUD Claim 40918, 40917	NTS 42A/8
Logged by Journal par	Magloire Bérubé date jan. 1985	Plan N°
Drawn by Dessiné par	Géodès date feb. 1985	
Revised by Révisé par	date	
SCALE / ÉCHELLE 1:1200		



620-04





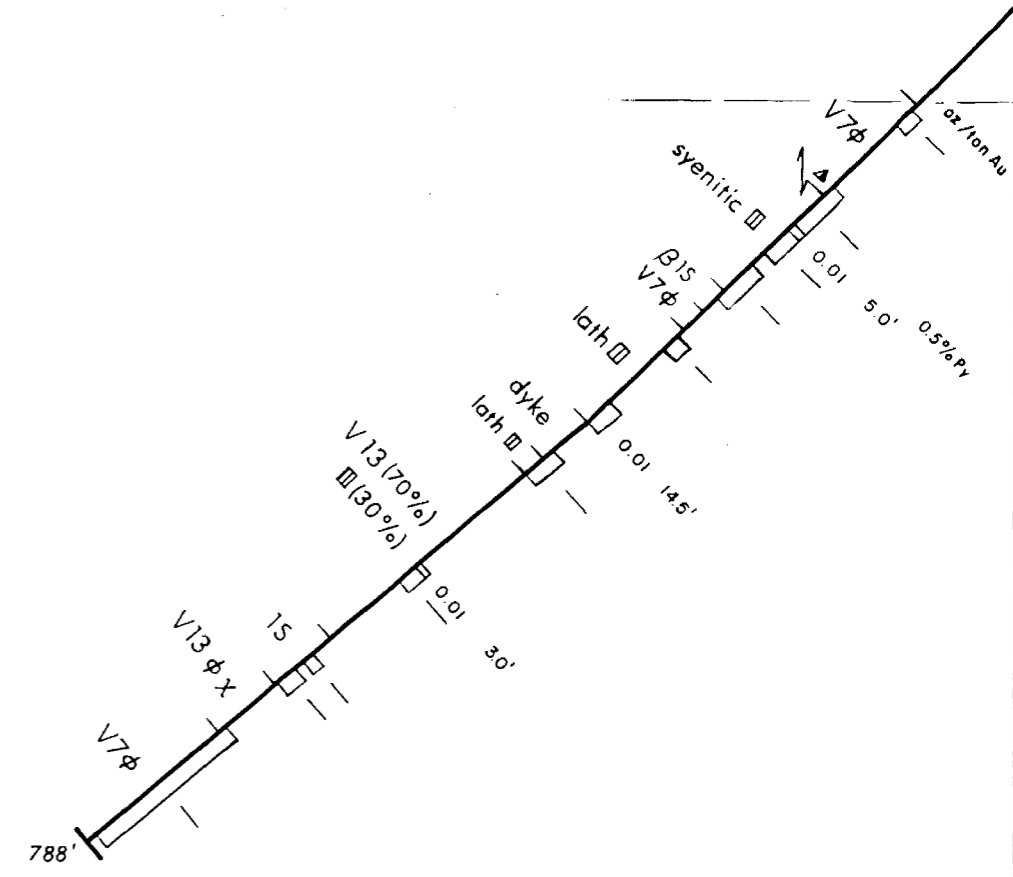
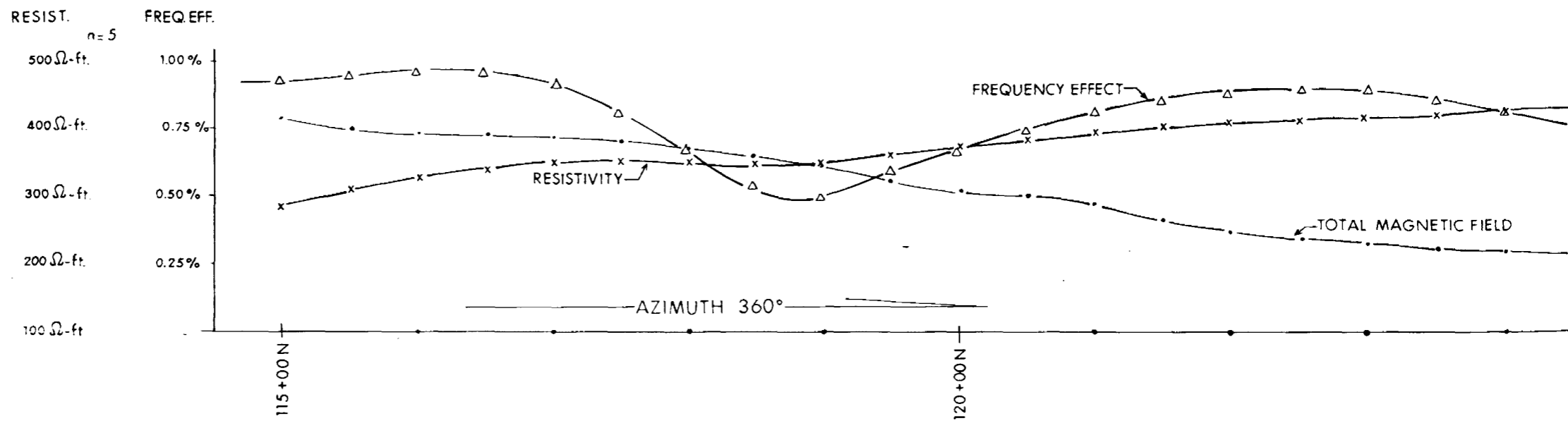
FALCONBRIDGE LTD/LTÉE

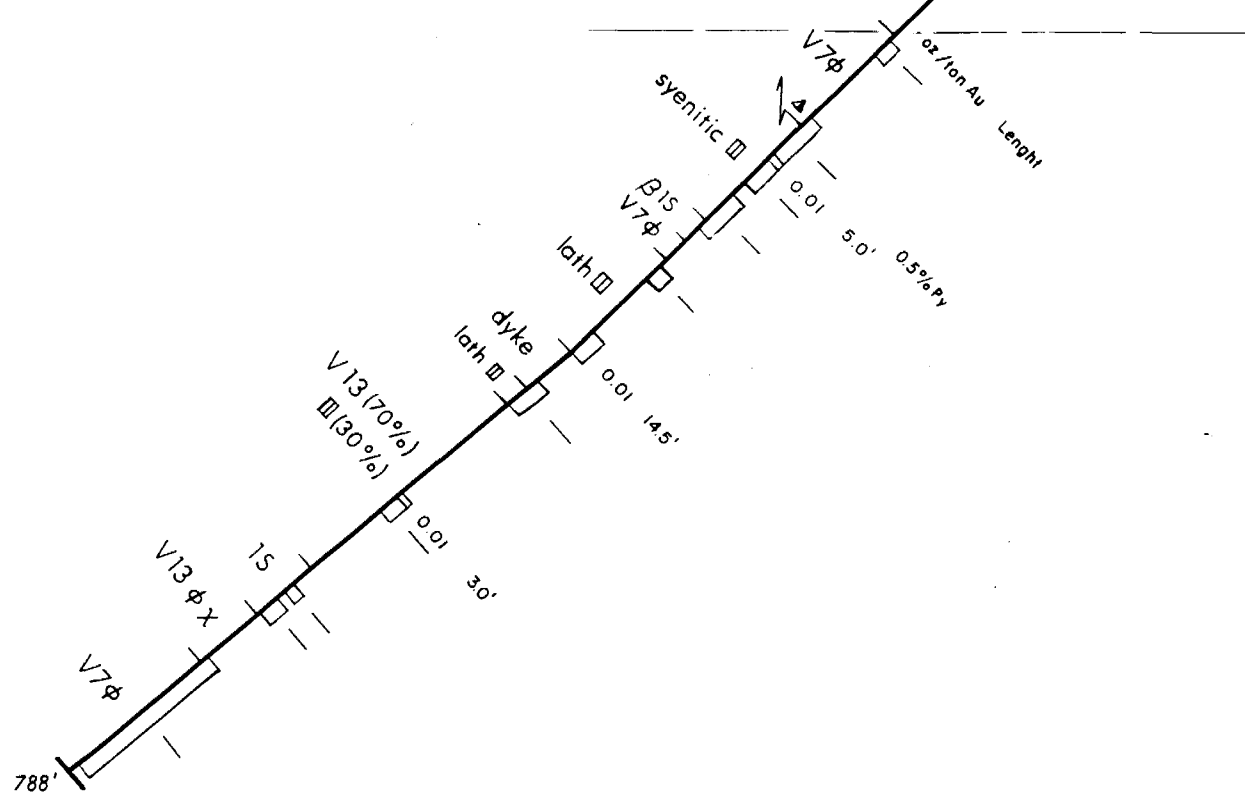
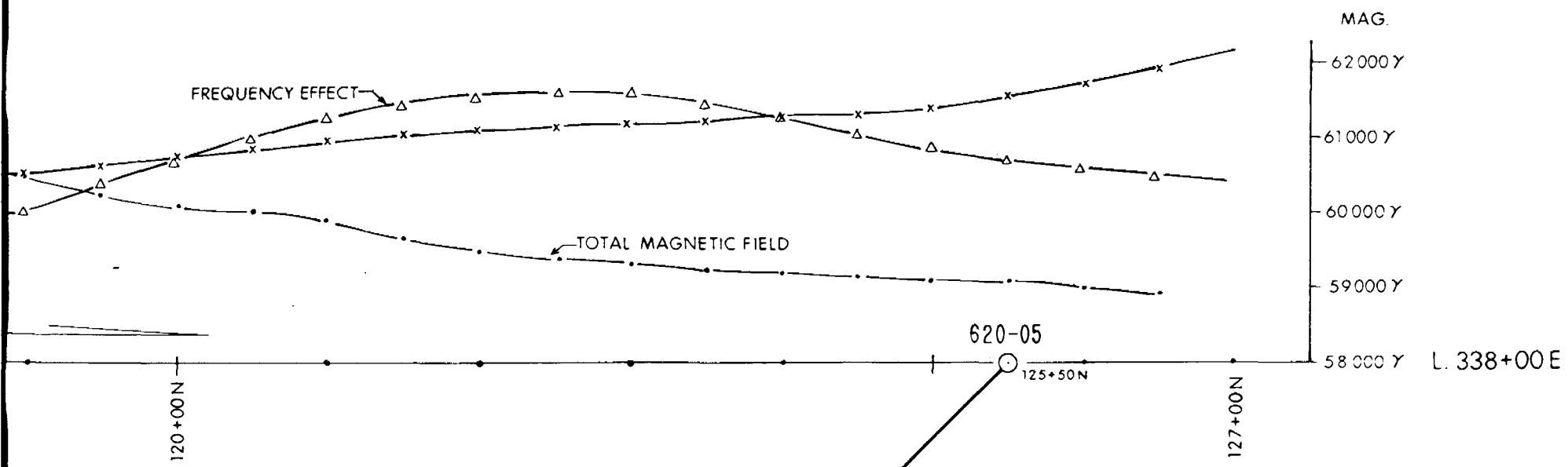
PN-620 MICHAUD PROPERTY

Histogram - Au in pp.b.

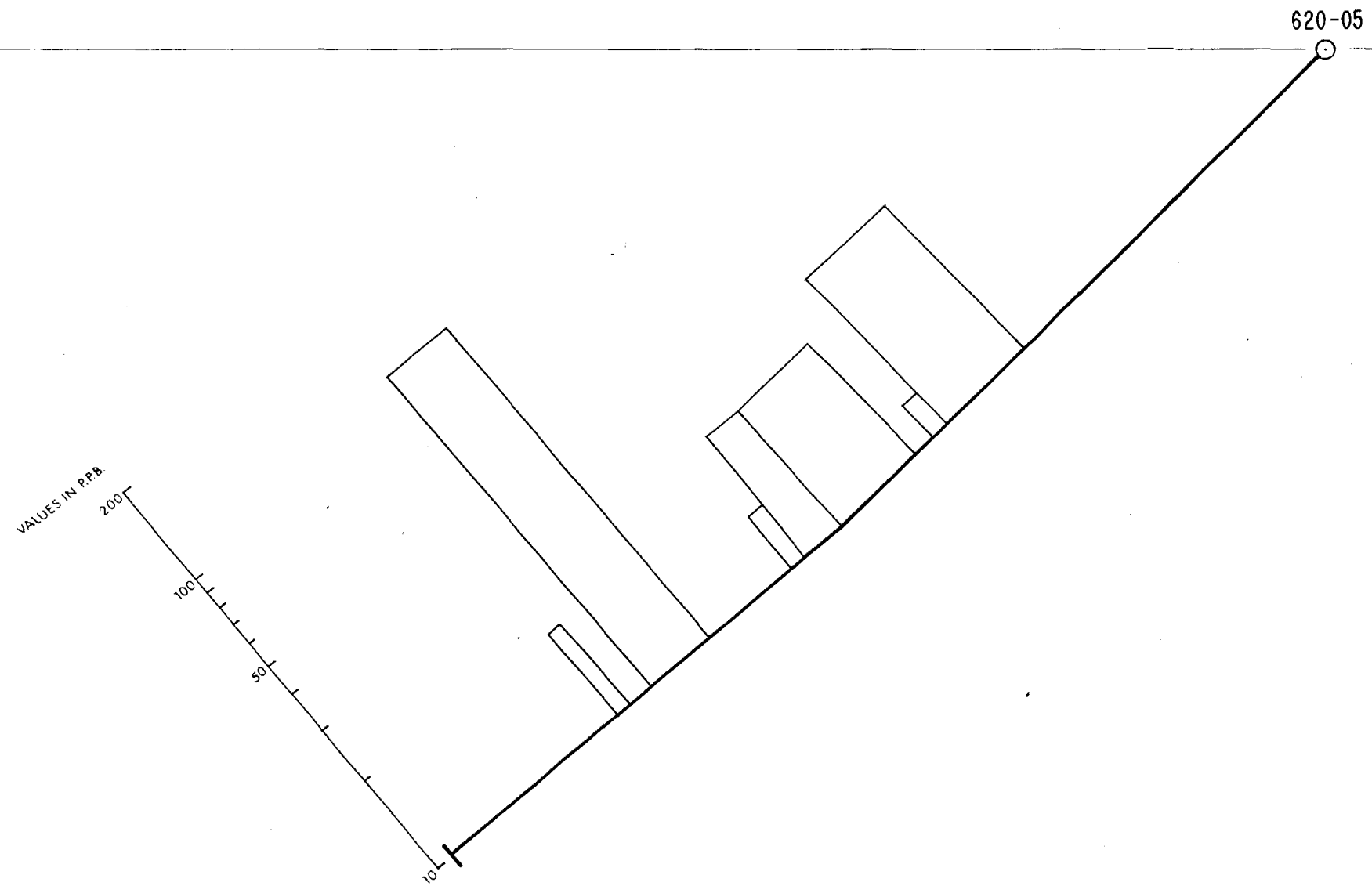
U.D.H. N° 620-04

Township: Canton:	MICHAUD	Claim:	40918, 40917	N.T.S
Logged by:		date		42A/8,9
Journal par:		date		Plan N°
Drawn by:	Geodes	date	Feb. 1985	
Dessiné par:		date		
Revised by:		date		
Revisé par:				
SCALE / ÉCHELLE	1:1 200			
0	100'	200'		






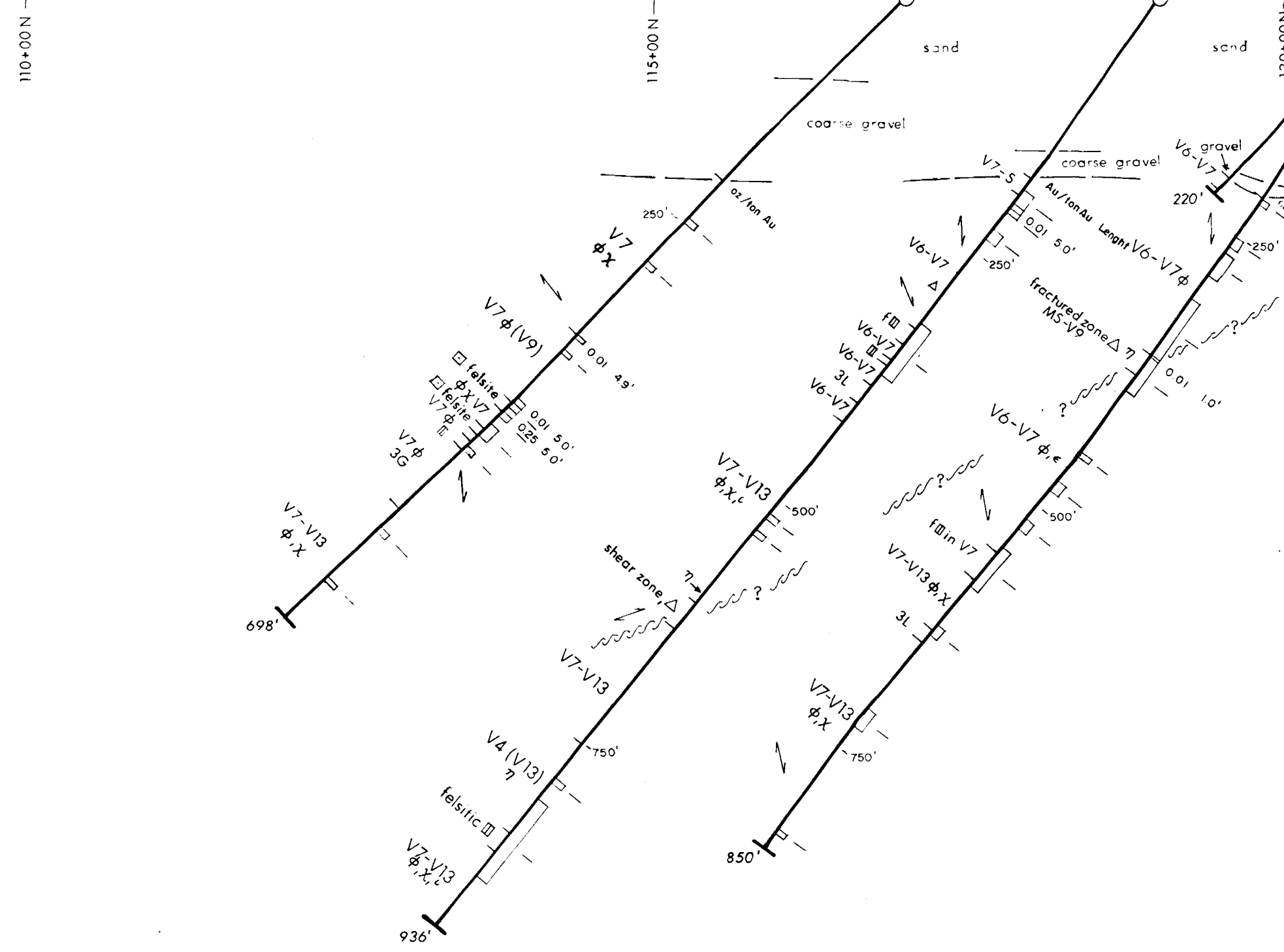
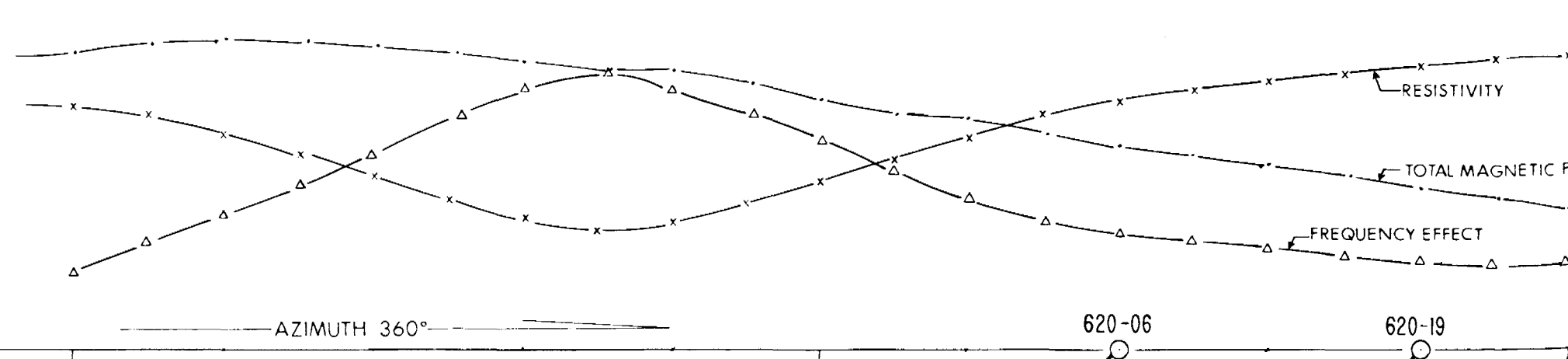
FALCONBRIDGE LTD/LTÉE		
PN-620 MICHAUD PROPERTY		
VERTICAL SECTION 338+00E		
D.D.H. N° 620-05		
Township	Canton	NTS.
Michaud	40919	42 A/8
Logged by	Date	Plan N°
Journal par: J. André Carrier	oct. 1984	
Drawn by	Date	Revised by
Dessiné par: Geodes	feb. 1985	
Revisé par:		
SCALE / ÉCHELLE 1:1200		

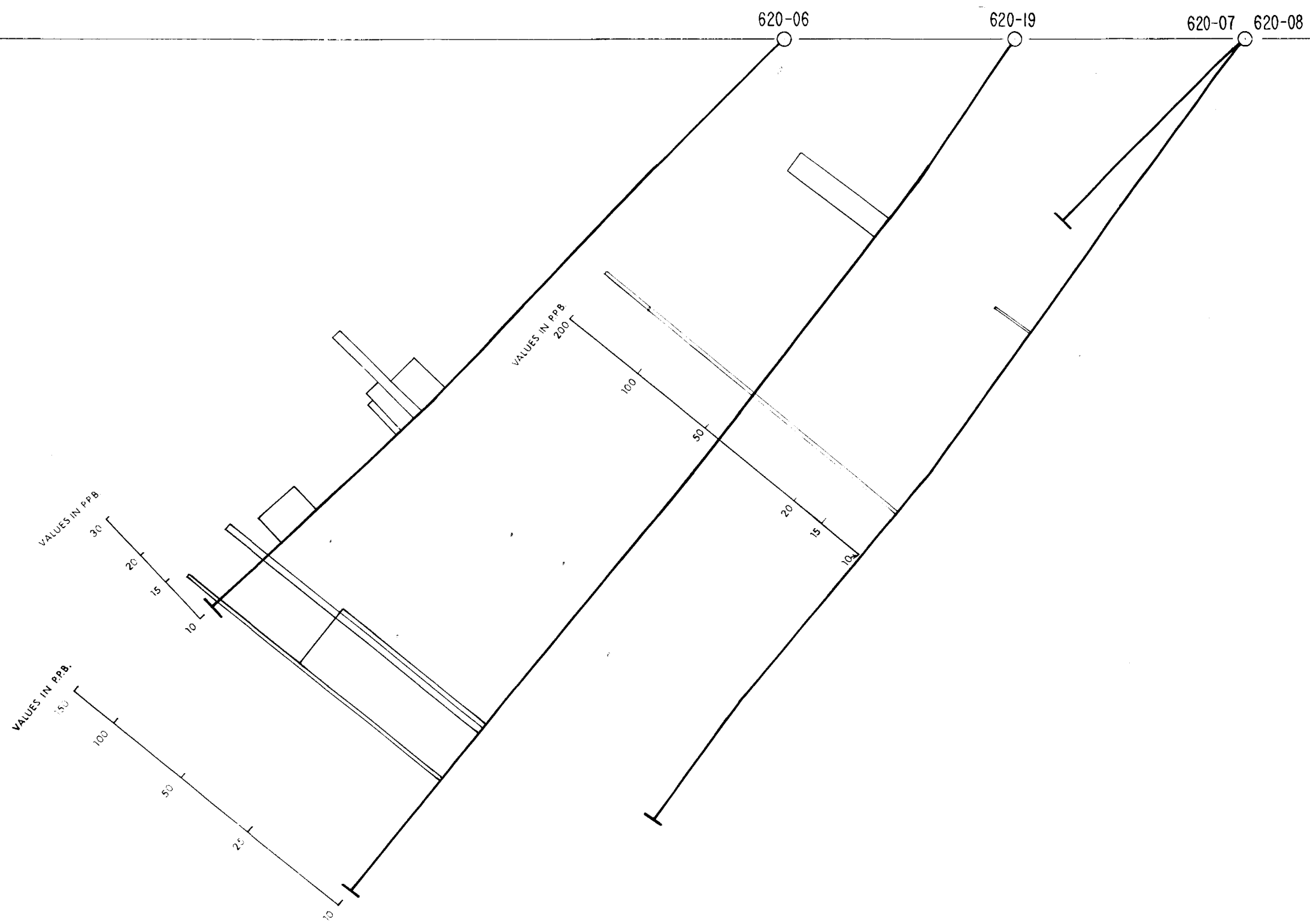


FALCONBRIDGE LTD/LTÉE			
PN-620 MICHAUD PROPERTY			
Histogram - Au in p.p.b.			
DDH N° 620-05			
Township	MICHAUD	40919	42A/B
Location			
Logged by			
Drawn by			
Discussed by	Geoder	Feb 1985	
Reviewed by			
Approved by			

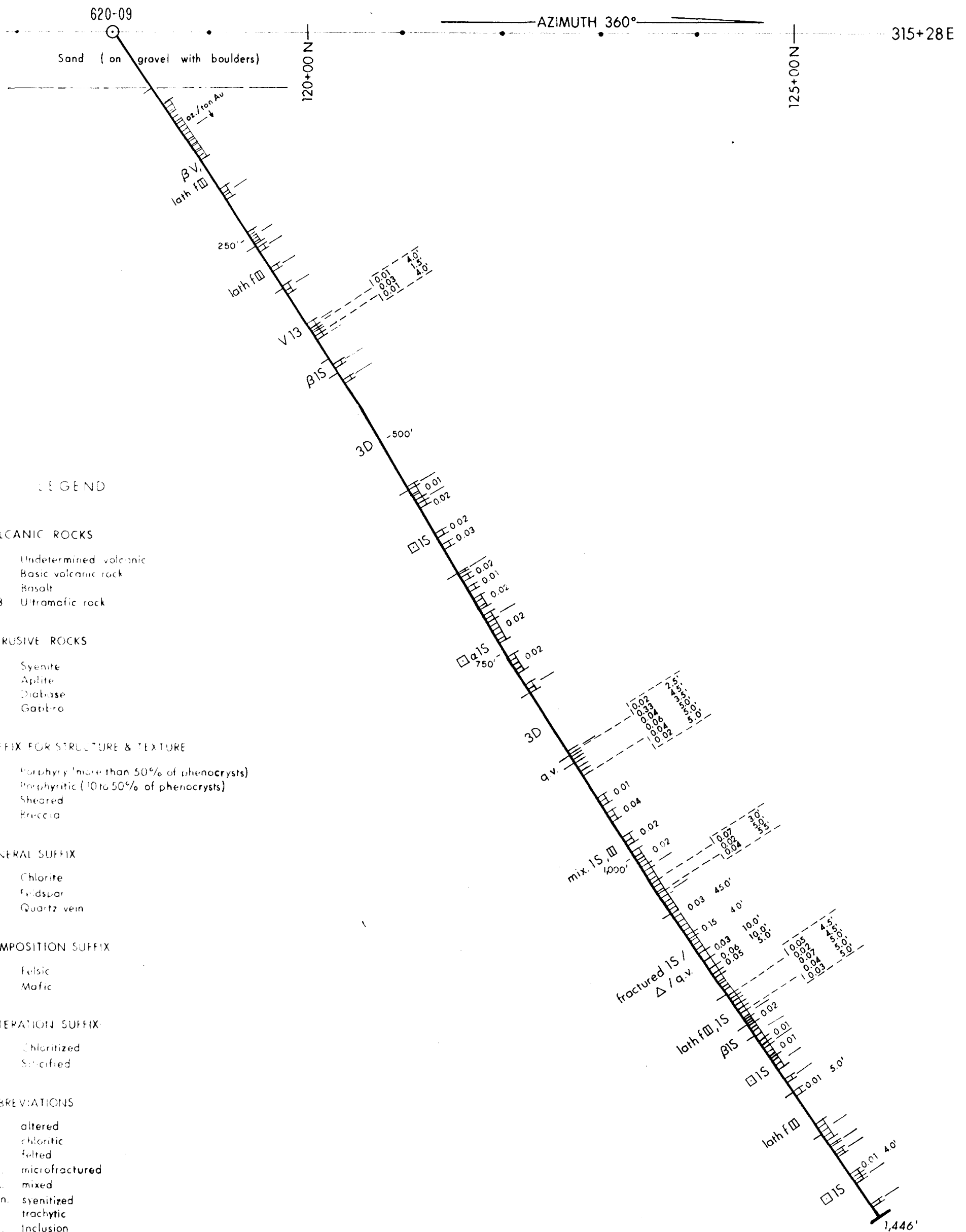


RESIST. $n=5$ FREQ EFF.
 800 Ω -m 4.0%
 600 Ω -m 3.0%
 400 Ω -m 2.0%
 200 Ω -m 1.0%
 0 0





FALCONBRIDGE LTD/LTÉE			
PN-620 - MICHAUD PROPERTY			
Histogram - Au in pp.b			
D.D.H. N° 620-06,07,08,19			
Township	40931	40932	42A '8
Zone	MICHAUD		
Logged by			
Drawn by	Geodes	Feb 1985	
Revised by			
Scale	1:1000		



LEGEND

VOLCANIC ROCKS

- V Undetermined volcanic
- V5 Basic volcanic rock
- V7 Basalt
- V13 Ultramafic rock

INTRUSIVE ROCKS

- IS Syenite
- IX Aplite
- 3D Diabase
- 3G Gabbro

SUFFIX FOR STRUCTURE & TEXTURE

- Porphyry (more than 50% of phenocrysts)
- Prophyritic (10 to 50% of phenocrysts)
- # Sheared
- △ Breccia

MINERAL SUFFIX

- Chlorite
- f Feldspar
- av Quartz vein

COMPOSITION SUFFIX

- a Felsic
- B Mafic

ALTERATION SUFFIX

- φ Chloritized
- γ Sulfidated

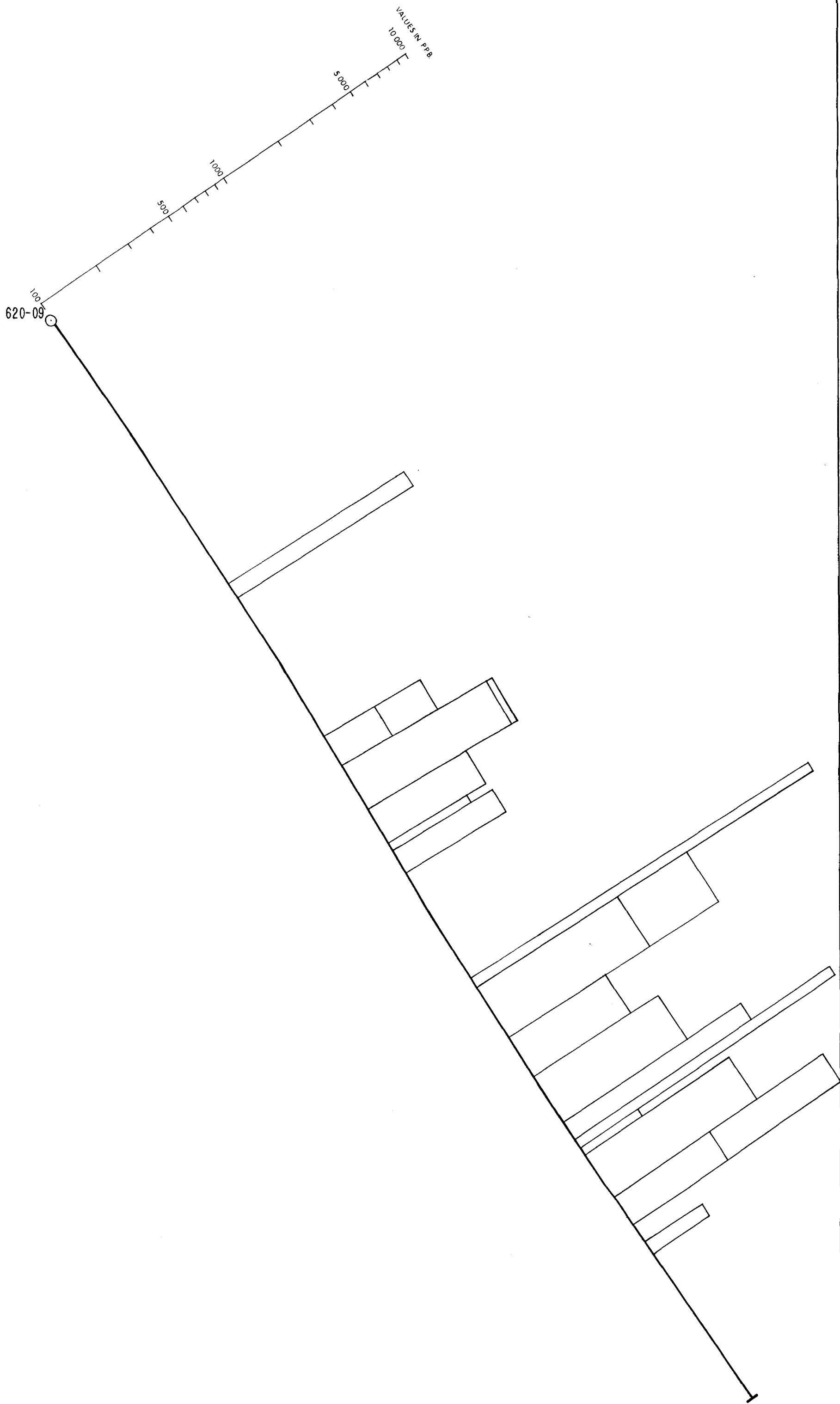
ABBREVIATIONS

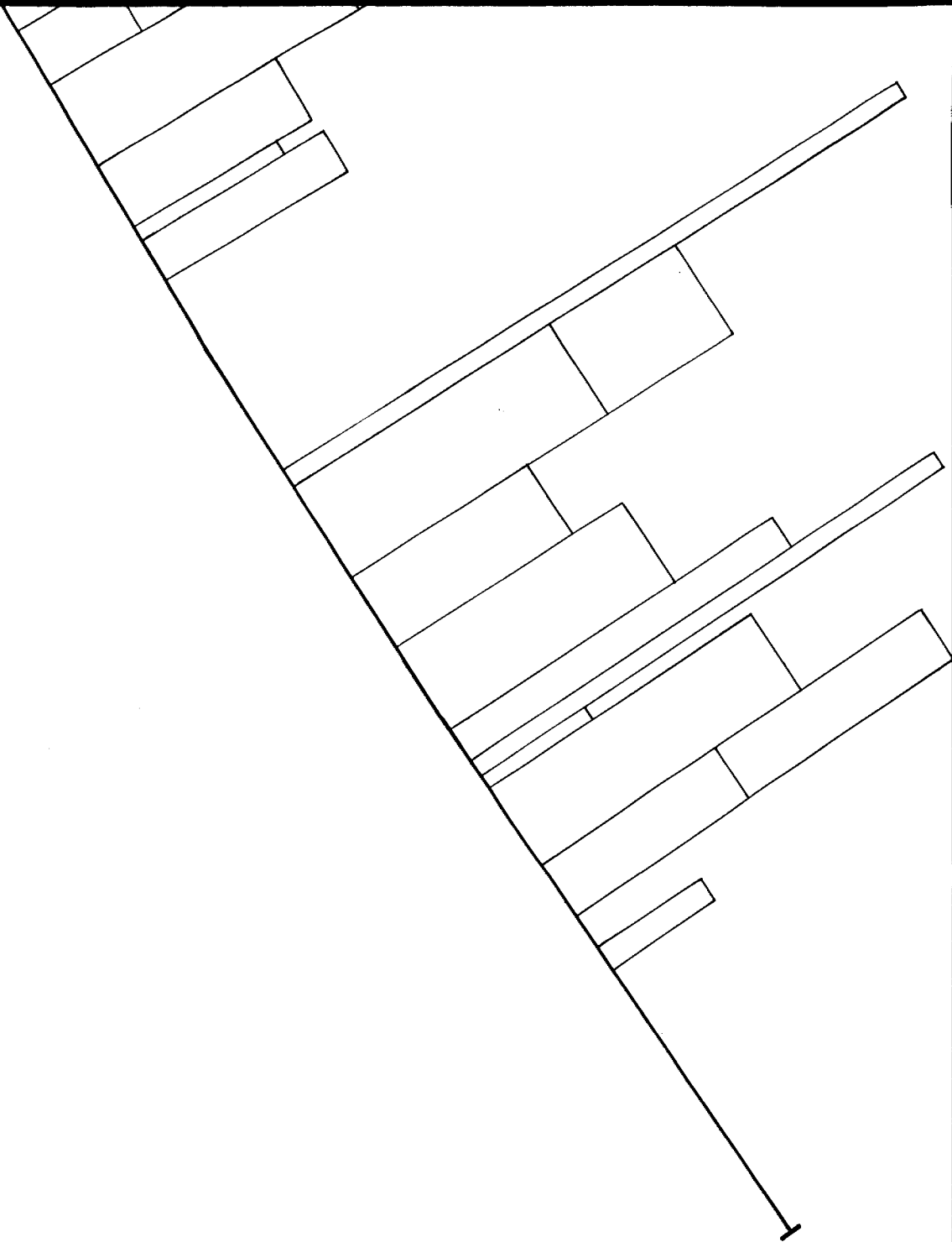
- alt. altered
- ch. chloritic
- flt. feldt
- mic. microfractured
- mix. mixed
- syen. syenitized
- tra. trachytic
- incl. Inclusion

FALCONBRIDGE LTD./LTÉE

PN-620 MICHAUD PROPERTY
 VERTICAL SECTION 315+28 E
 D.D.H. N° 620-09

Ownership N° 620	MICHAUD Claim 40917,40918	NTS 42 A/8
Logged by Journal par	J. André Carrier date nov 1984	Plan N°
Drawn by Dessiné par	Géodès date feb. 1985	
Revised by Révisé par	date	





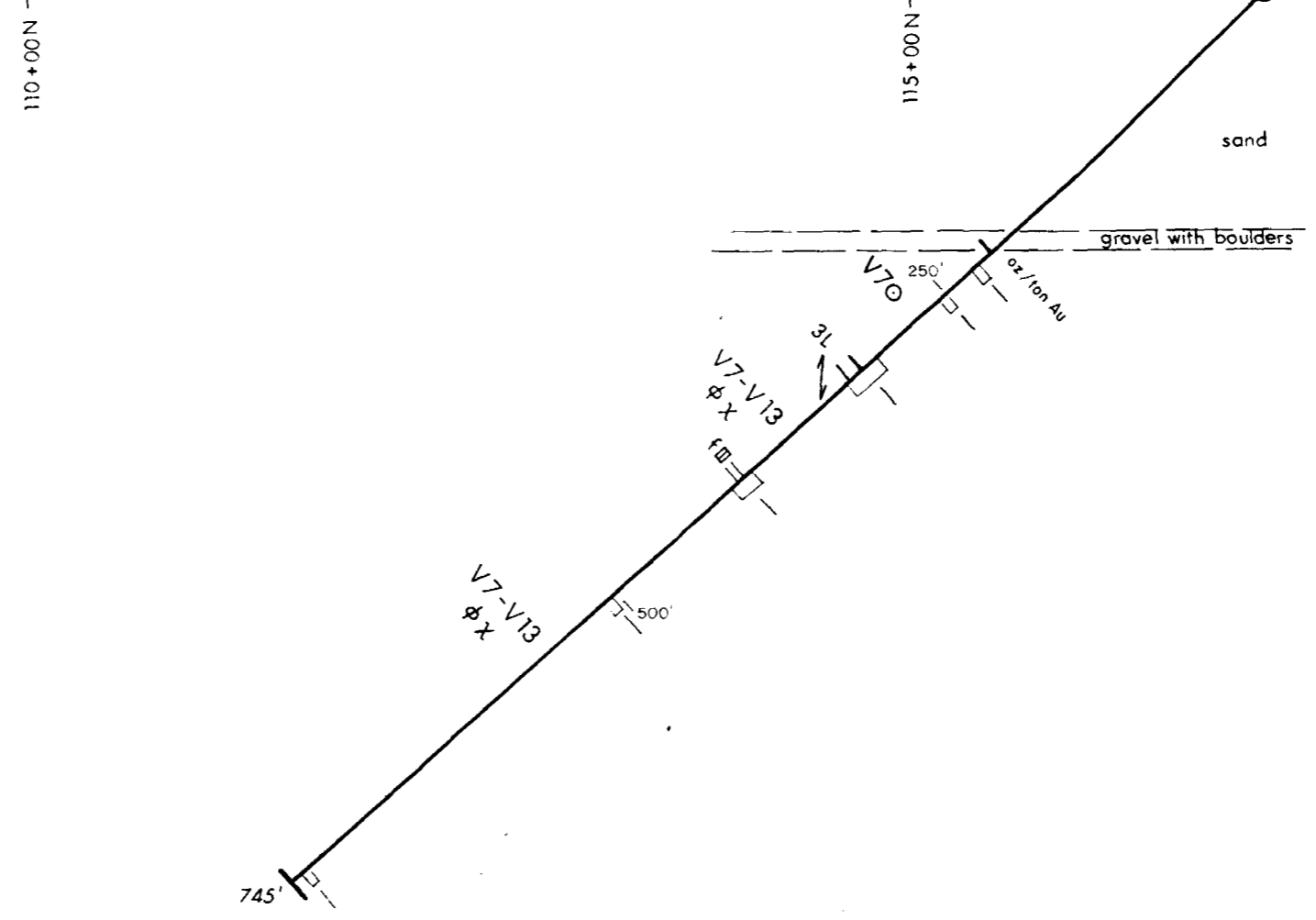
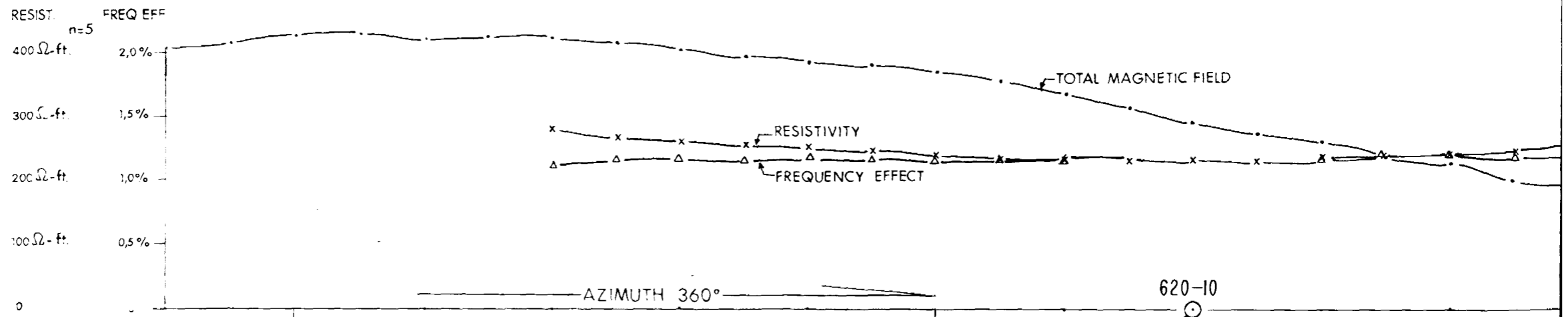
FALCONBRIDGE LTD/LTÉE

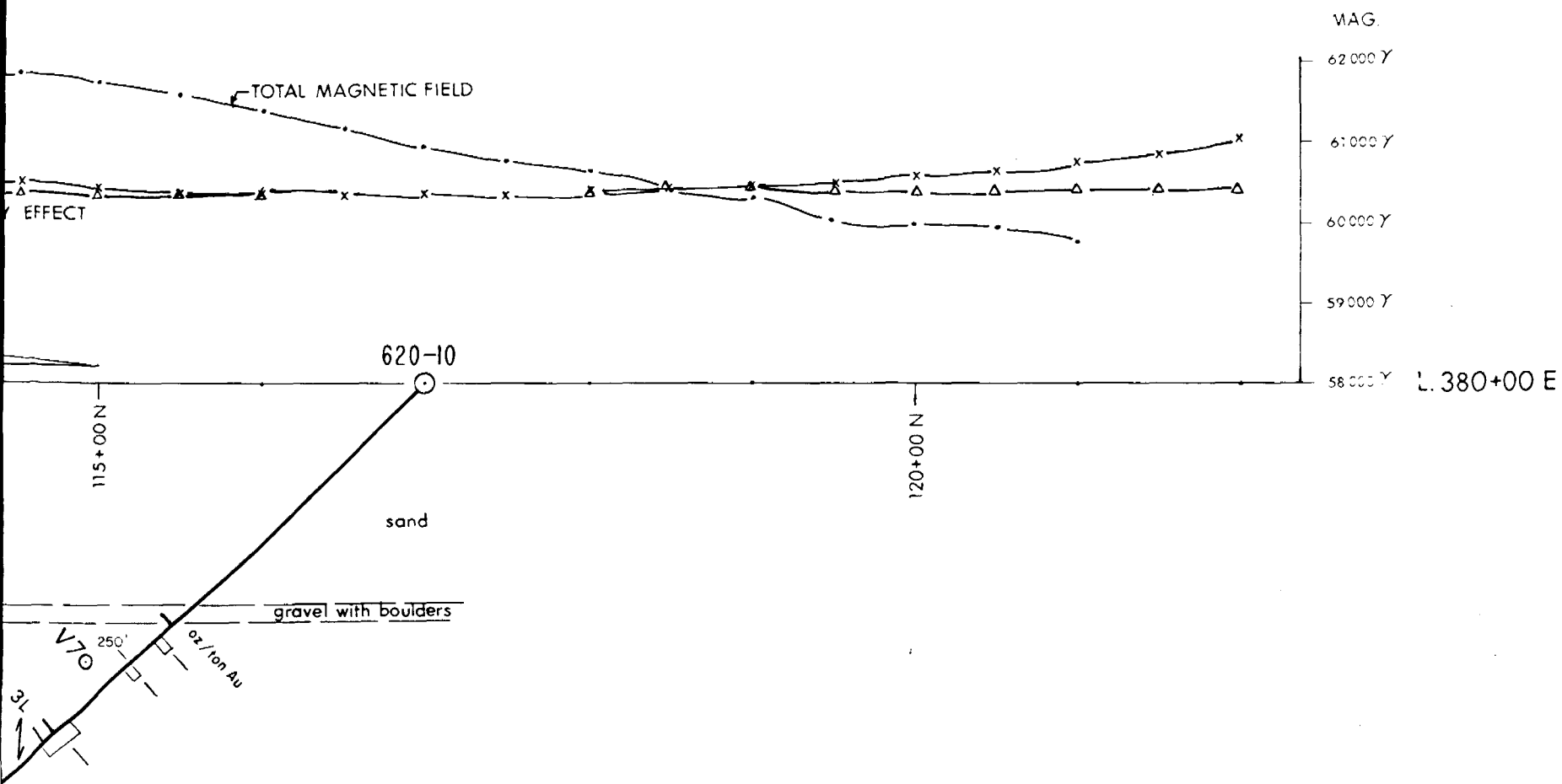
PN-620 MICHAUD PROPERTY

Histogram - Au in ppb.

U.D.H. N° 620-09

Drawn by Dessiné par	MICHAUD	Claim 40917, 40918	NTS 42A/8,9
Logged by Journal par		date Feb. 1985	Plan N°
Revised by Révisé par	Geodes	date Feb. 1985	
SCALE / ÉCHELLE 1:1200			





No histogram - Au in ppb was made

FALCONBRIDGE LTD/LTÉE		
PN-620 MICHAUD PROPERTY		
VERTICAL SECTION 380+00 E		
D.D.H. N° 620-10		
Township Canton	MICHAUD	Claim 40932
Logged by Journal par:	J. André Carrier	Date oct. 1984
Drawn by Dessiné par:	Geodes	feb. 1985
Revised by Révisé par:		
SCALE / ÉCHELLE	1:200	
	0' 100' 200'	

RESIST. n=5 FREQ. EFF.

750 Ω -ft.

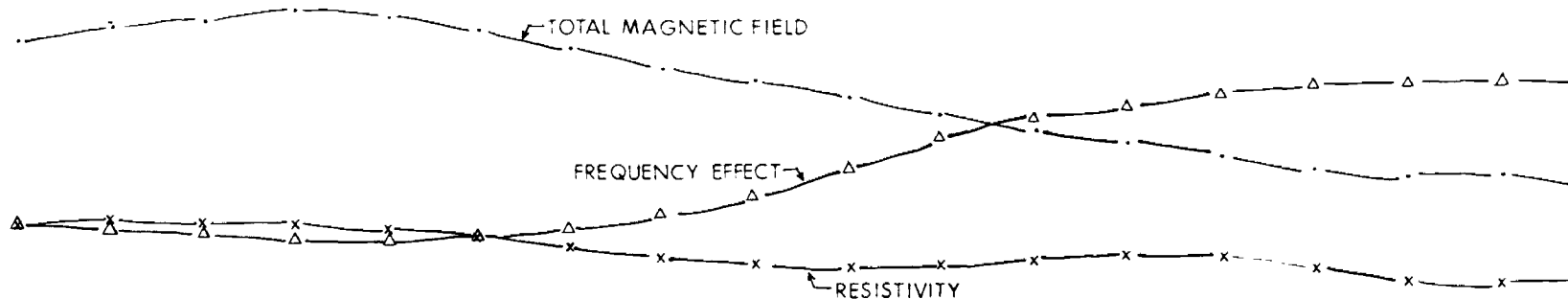
1,5 %

500 Ω -ft.

1,0 %

250 Ω -ft.

0,5 %



620-17

620-11

AZIMUTH 360°

110+00 N

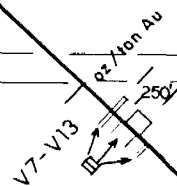
115+00 N

sand

sand

gravel

gravel with boulders



V7-V13

V7 ϕ
3G-V7
felsite
0.24
13.0'

500'
V7-V13
V7-V13
 ϕ X

V7-V13
 ϕ X
500'

697.5'

750'

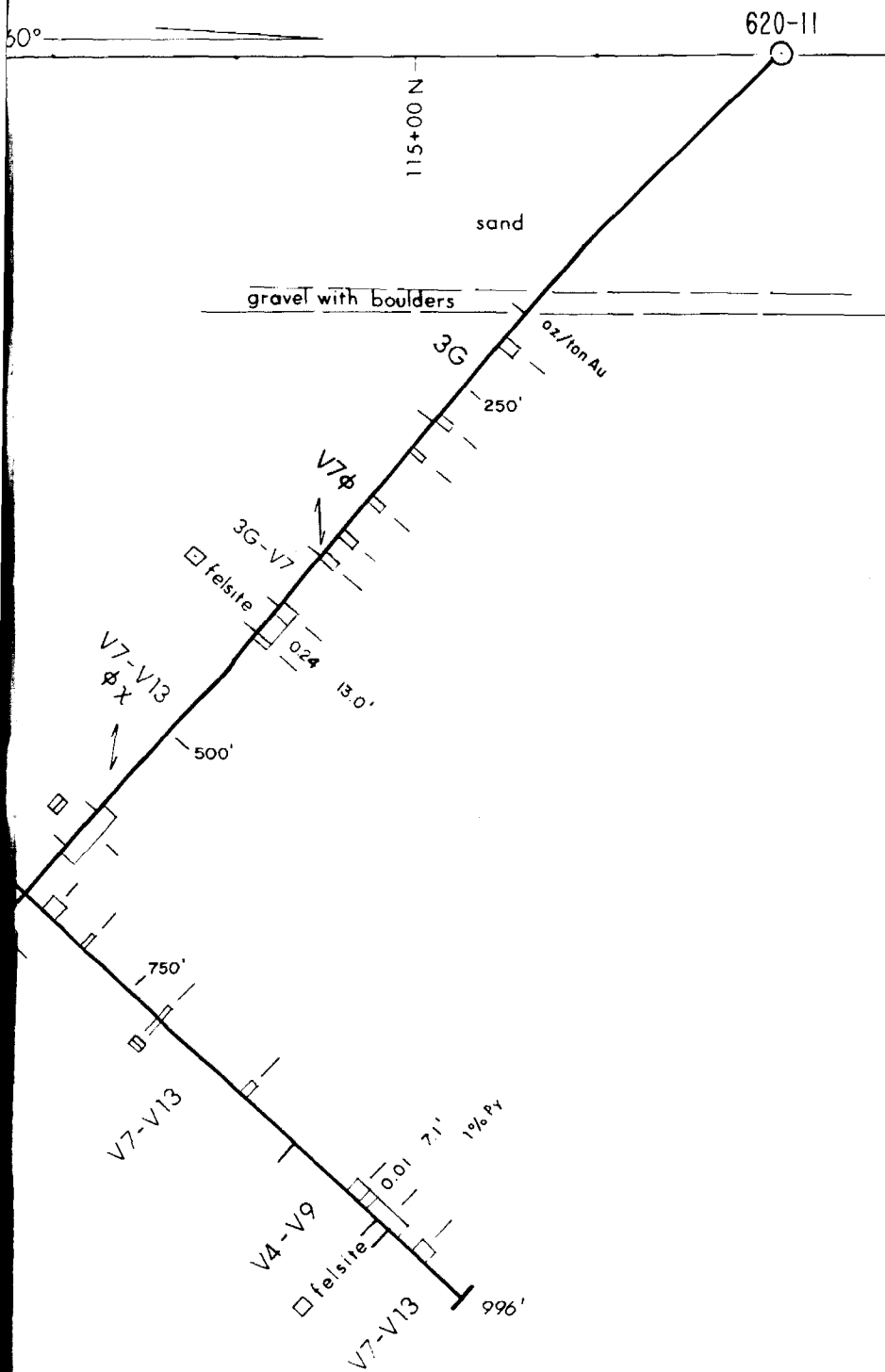
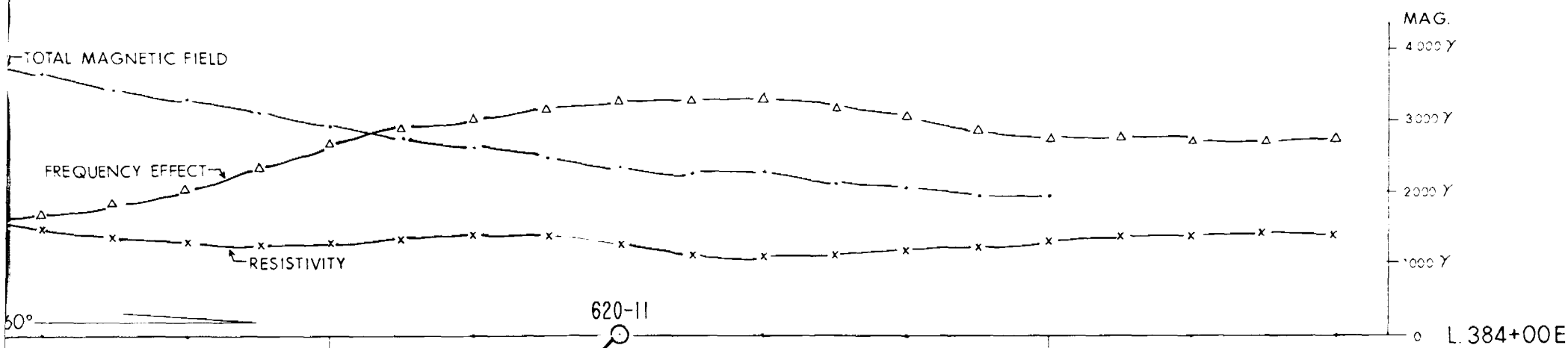
V7-V13

V4-V19
felsite
0.01
7.1'

V7-V13

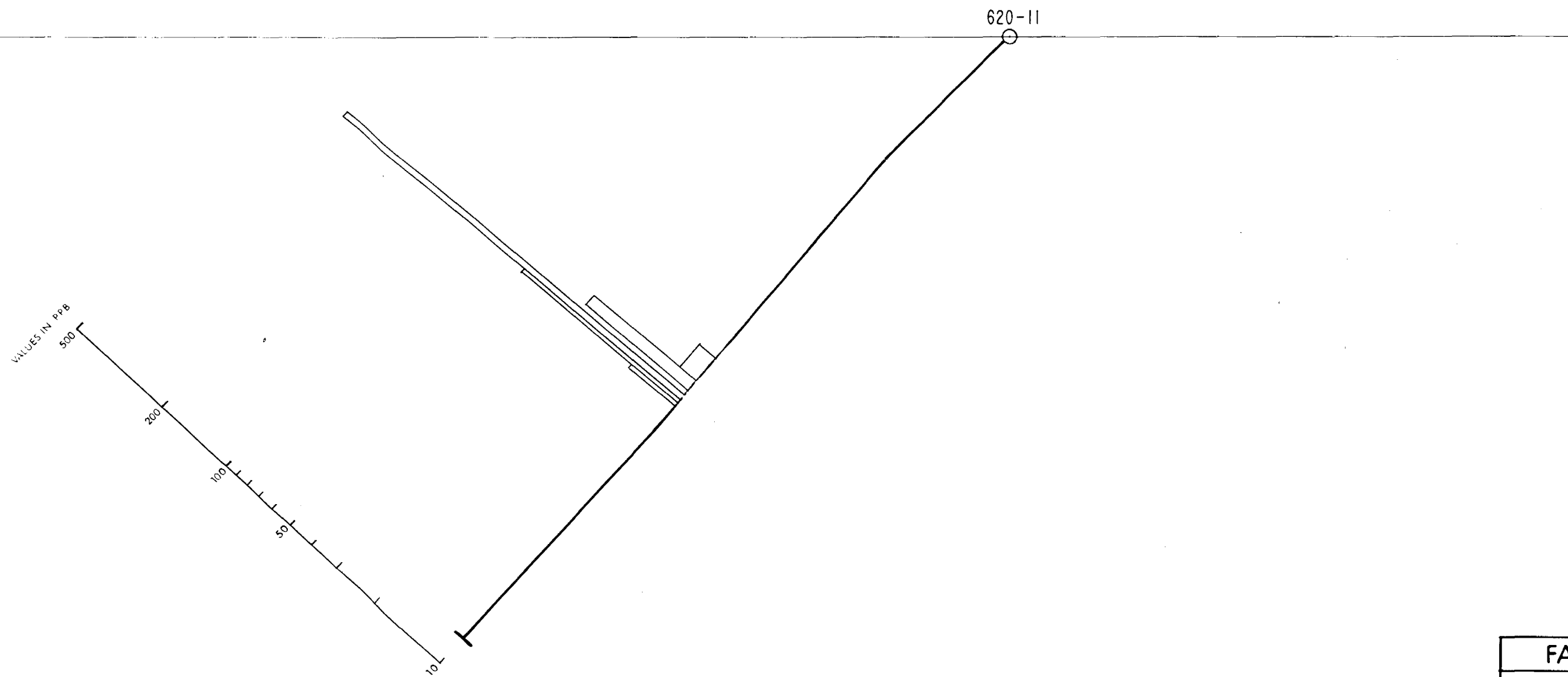
1% Py

996'



FALCONBRIDGE LTD/LTÉE			
PN-620 MICHAUD PROPERTY			
VERTICAL SECTION 384+00 E			
D.D.H. N ^{os} 620-11, 620-17			
Township	MICHAUD	40932	N.T.S.
Center			42A/8
Logged by	J. André Carrier	Date	oct, nov. 1984
Journal no.			Plan N ^o
Drawn by	Geodes	feb. 1985	
Dessiné par			
Revised by			
Revisé par			
SCALE / ÉCHELLE	1:1200		
	0	100'	200'





FALCONBRIDGE LTD/LTÉE			
PN-620 MICHAUD PROPERTY			
Histogram - Au in p.p.b.			
DDH. N° 620-11			
Location	MICHAUD	40932	PLAN
Logged by			42A/8
Journal par			Plan N°
Drawn by	Geodes	feb. 1985	
Revised by			
SPA ÉCHELLE 1:1200			

AZIMUTH 315°

MAG

59 000 γ
58 750 γ
58 500 γ
58 250 γ
58 000 γ

TOTAL MAGNETIC FIELD

620-12

99°03' N
304°00' E

308+00 E
95°40' N

306+00 E
97°30' N

sand

gravel

f 10

oz/ton Au

0.03

0.01

0.02

0.01

0.02

0.01

0.02

0.01

0.02

0.01

0.02

0.01

0.02

0.01

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0.01

0.02

0.01

0.02

0.01

0.02

0.01

0.02

0.01

0.02

0.01

0.02

f 10

oz/ton Au

2.0'

1.0'

1.0'

1.0'

1.0'

1.0'

1.0'

1.0'

1.0'

1.0'

1.0'

1.0'

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1.0'

1.0'

1.0'

1.0'

1.0'

1.0'

1.0'

1.0'

15

250'

15

lath f 10

lath f 10

f 10

lath f 10

lath f 10

lath f 10

alt ε β Incl.

mix f 10

alt ε γ

country rock

V7-V13

magnetic

FALCONBRIDGE LTD/LTÉE

PN-620 MICHAUD PROPERTY

VERTICAL SECTION 304+00 E

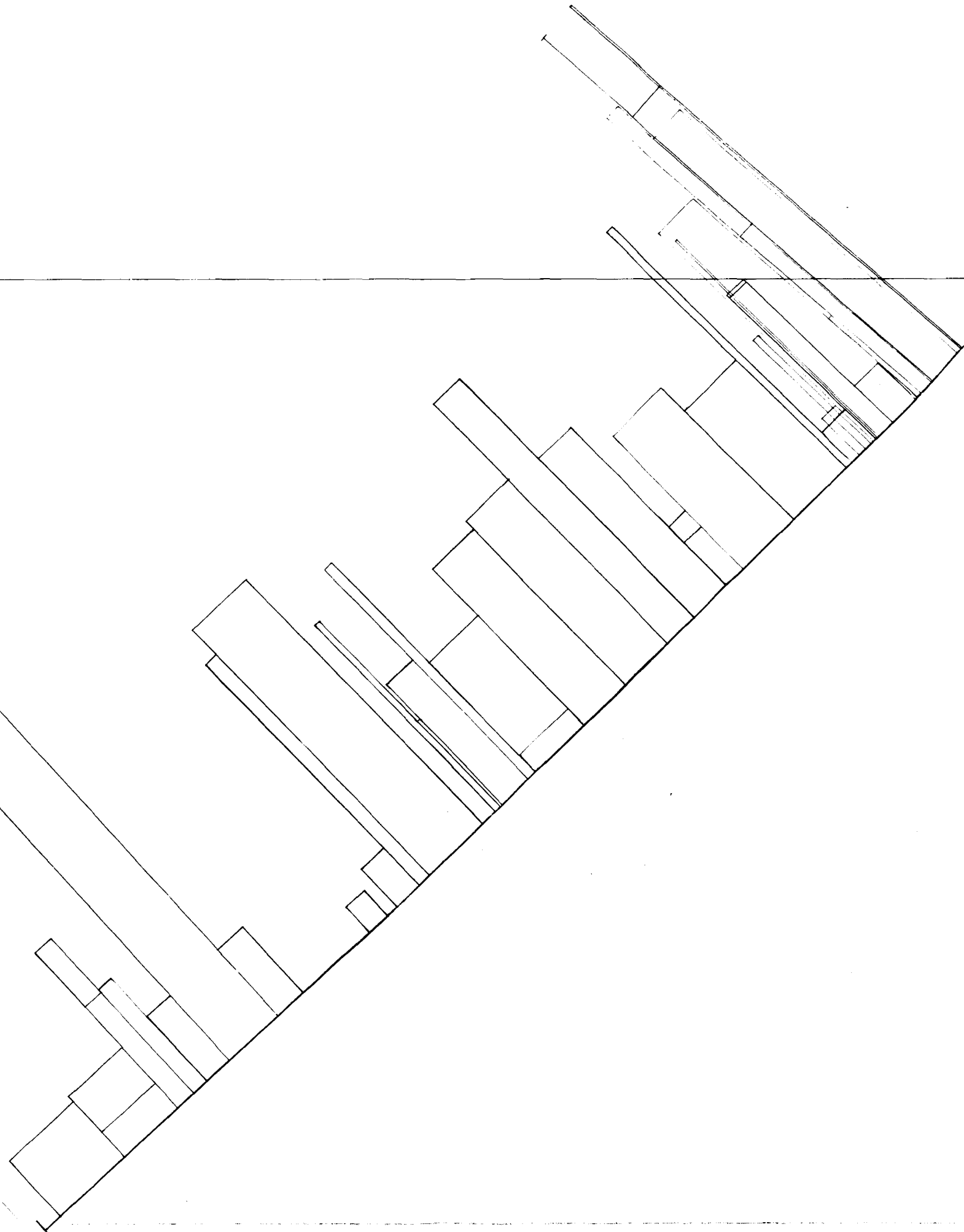
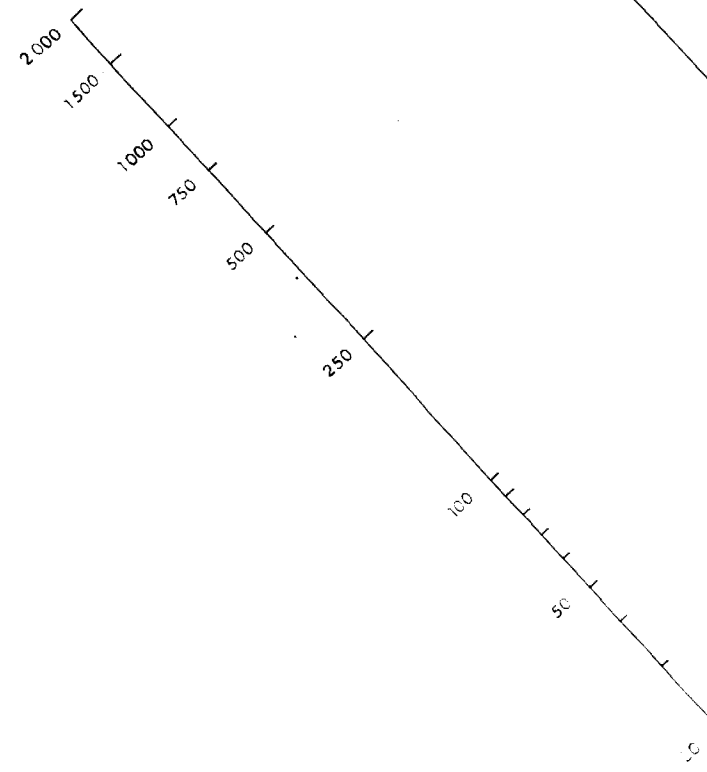
D.D.H. N°620-12

Township:	MICHAUD	Claim:	45152	N.T.S.
Canton:				42 A/8
Logged by:	J. André Carrier	Date:	jan. 1985	Plan N°
Drawn by:	Geodes		feb. 1985	
Dessiné par:				

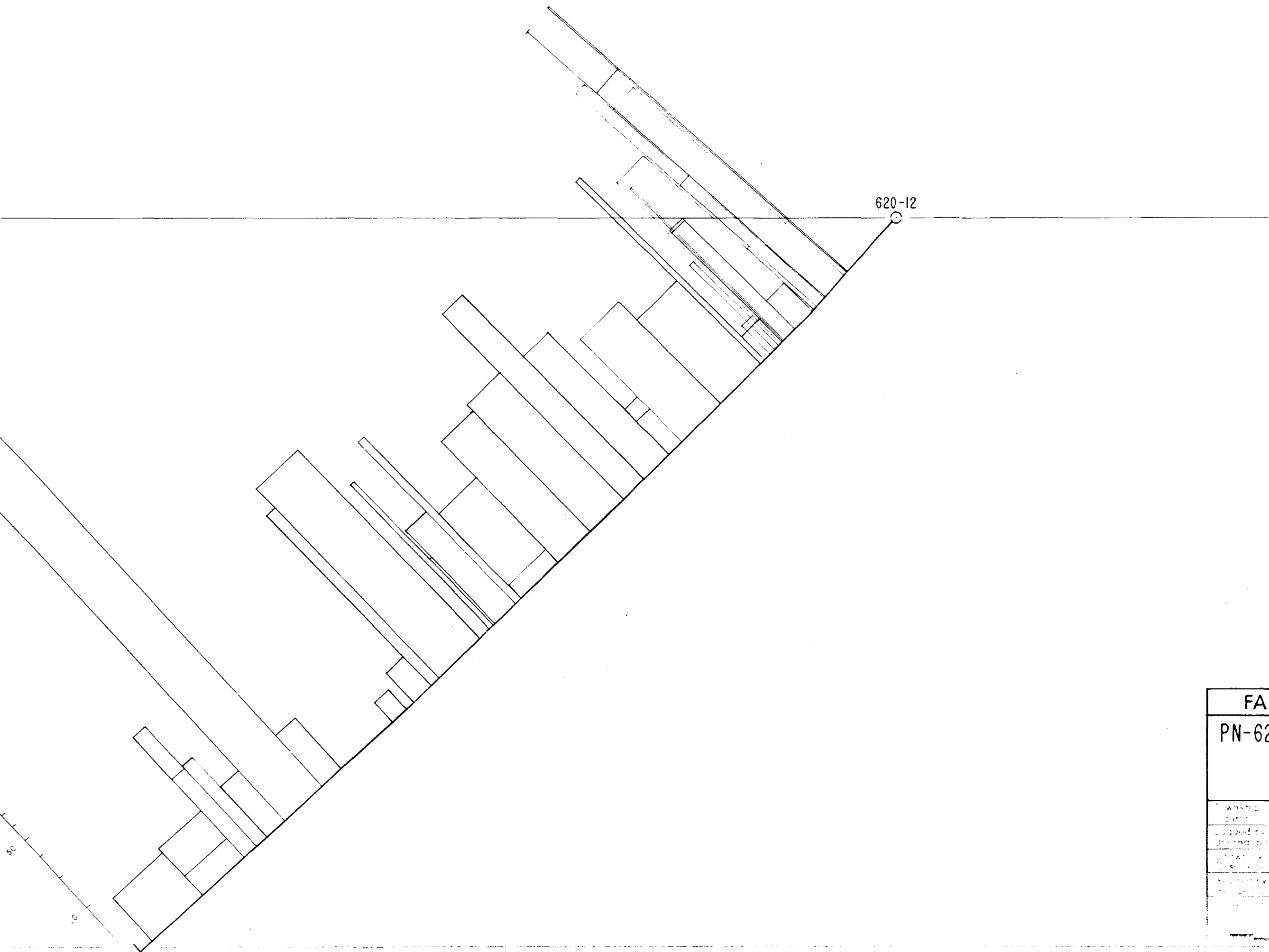
Revised by:
Revisé par:

SCALE / ÉCHELLE 1:1200

VALUES IN PPB



620-12



FALCONBRIDGE LTD/LTÉE			
PN-620 MICHAUD PROPERTY			
Histogram - Au in p.p.b.			
DDH N° 620-12			
Washed by	MICHAUD	45152	42A/8
Logged by			Page 1/5
Checked by	Geodes	Feb 1985	
Property			



620-13

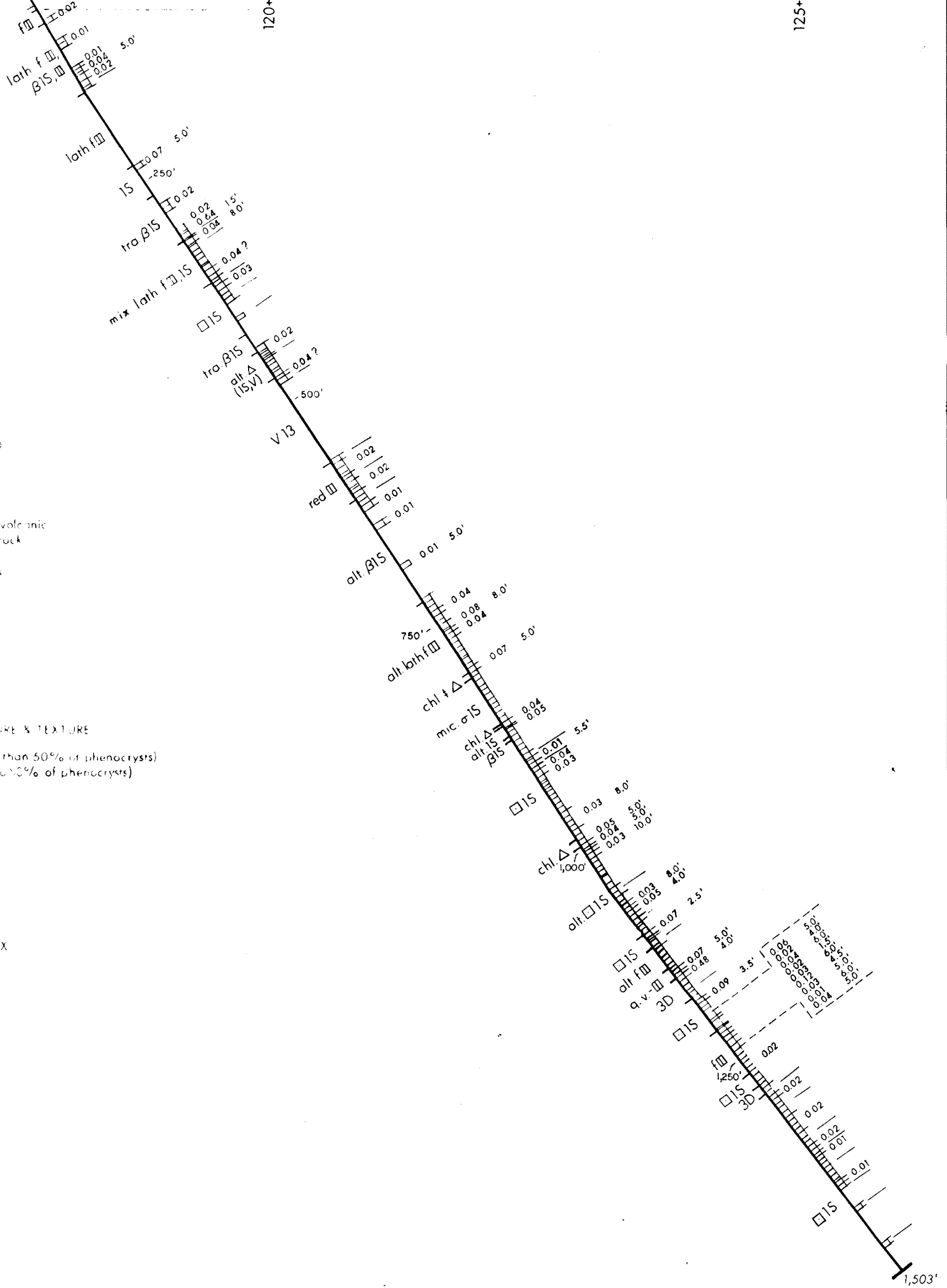
Sand (on 2' of gravel with boulders)

AZIMUTH 360°

313+97E

120+00N

125+00N



LEGEND

VOLCANIC ROCKS

- V Undetermined volcanic
- V5 Basic volcanic rock
- V7 Basalt
- V13 Ultramafic rock

INTRUSIVE ROCKS

- IS Syenite
- IX Aplite
- 3D Diabase
- 3G Gabbro

SUFFIX FOR STRUCTURE & TEXTURE

- III Porphyry (more than 50% of phenocrysts)
- II Porphyritic (10 to 50% of phenocrysts)
- f Sheared
- Δ Breccia

MINERAL SUFFIX

- Ch Chlorite
- f Feldspar
- av Quartz vein

COMPOSITION SUFFIX

- f felsic
- β mafic

ALTERATION SUFFIX

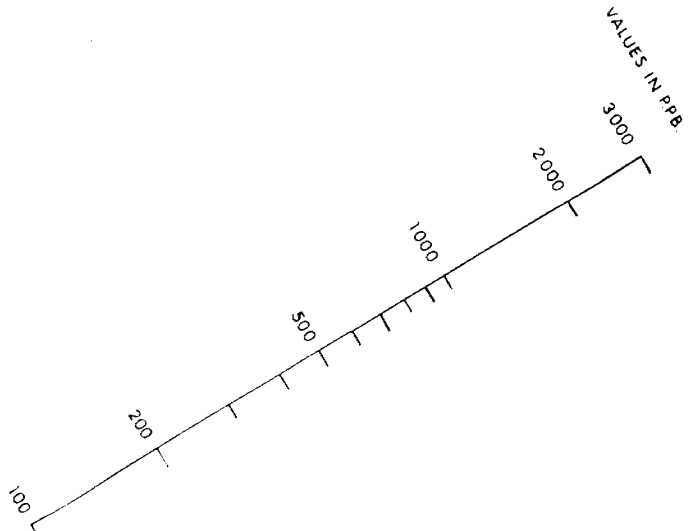
- φ chloritized
- s silicified

ABBREVIATIONS

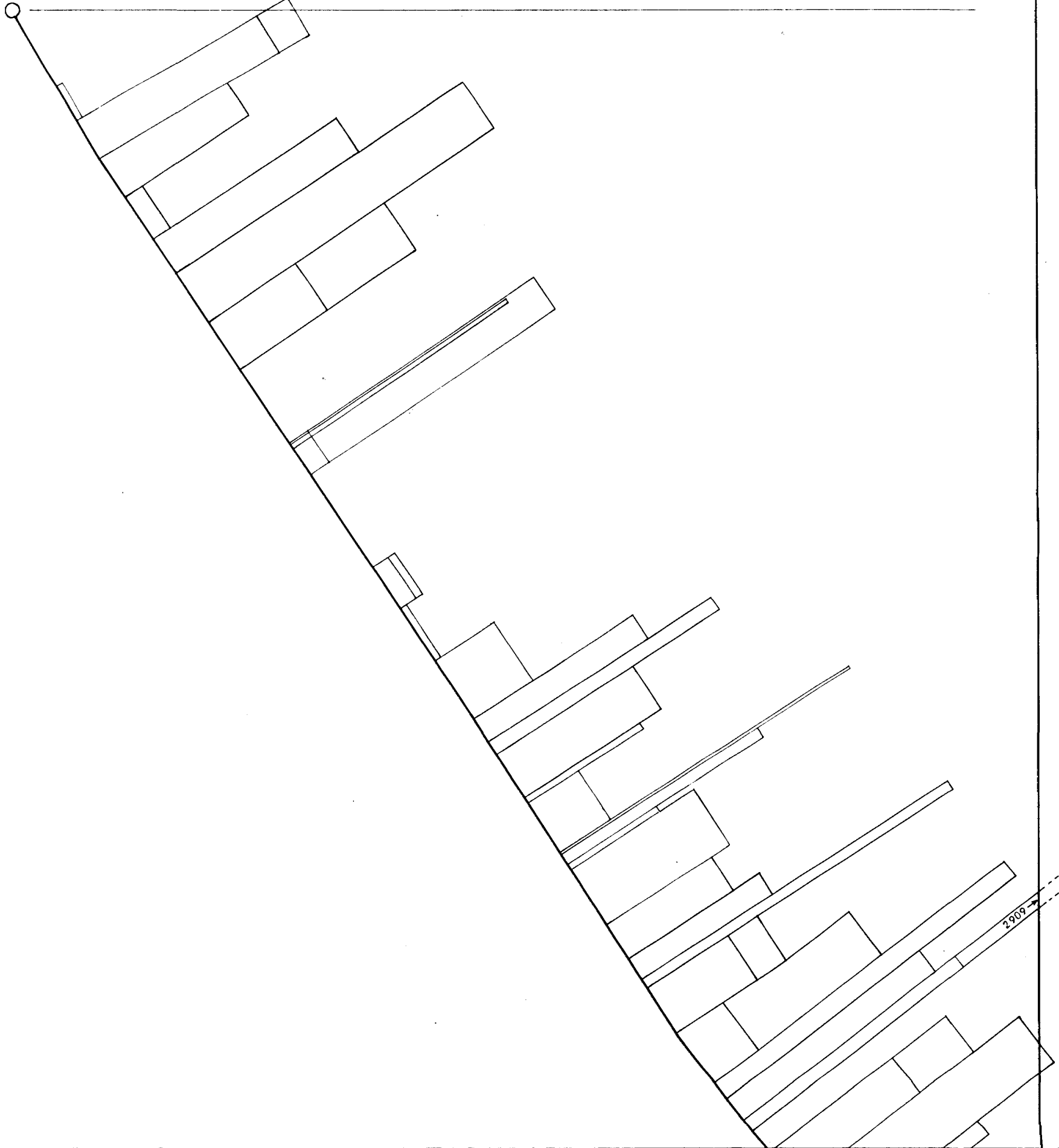
- alt altered
- chl chloritic
- flt faulted
- mic microfractured
- mix mixed
- syen. syenitized
- tra trachytic
- incl. inclusion

FALCONBRIDGE LTD./LTÉE
PN-620 MICHAUD PROPERTY
 VERTICAL SECTION 313+97E
 DD.H. N° 620-13

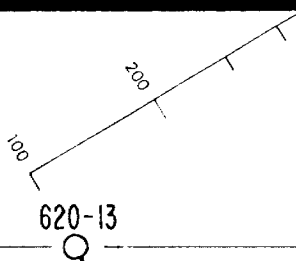
Wash P. MICHAUD	Claim 40917, 40918	NTS 42A/8,
Logged by J. André Carrier	date jan. 1985	Plan N°
Drawn by Géodès	date feb. 1985	
Revised by	date	
Revisé par		
SCALE / ÉCHELLE 1:1200		



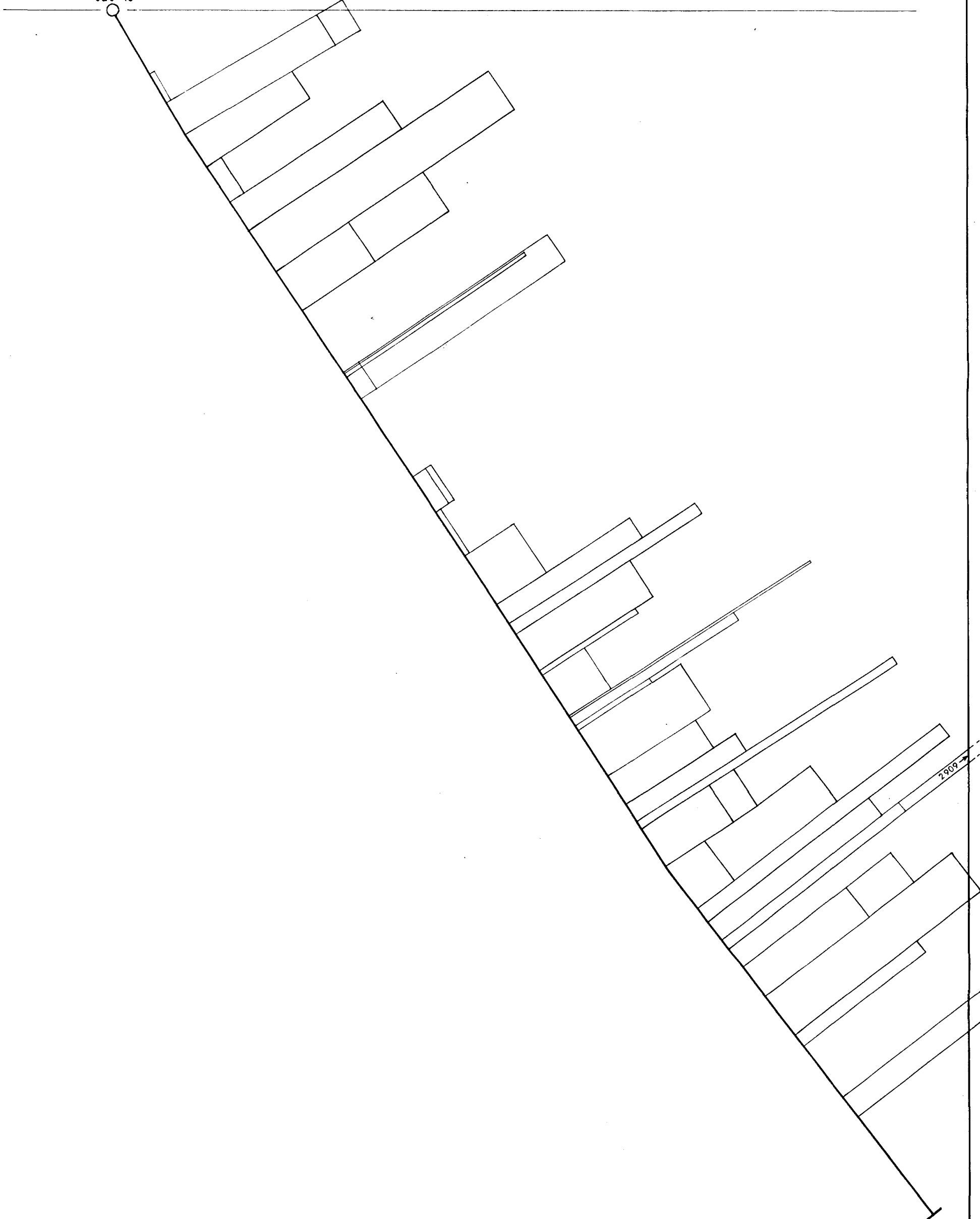
620-13



2909



620-13



FALCONBRIDGE LTD/LTÉE
PN-620 MICHAUD PROPERTY
 Histogram - Au in p.p.b.
 D.D.H. N° 620-13

Township: MICHAUD	Claim: 40917,40918	N.T.S. 42A/8,9
Logged by:	date	Plan N°
Journal par:	date	
Drawn by: Geodes	date Feb. 1985	
Dessiné par:	date	
Revised by:	date	
Revisé par:		
SCALE / ÉCHELLE 1:1200		

620-14

Sand (on gravel with boulders)

AZIMUTH 360°

320 + 54E

120+00 N

125+00 N

250'

mix f m, IS

alt. lath f m

IS

V7,3G

lath f m

IS

lath f m

IS

β fil. IS

alt. fil. IS

mix alt IS

(felsites?)

alt. IS

lath f m, IS

alt. IS

1,486'

LEGEND

IGNEOUS ROCKS

- V7 - Undetermined volcanic
- V8 - Basic volcanic rock
- V7 - Basalt
- V13 - Ultrabasic rock

INTRUSIVE ROCKS

- 1 - Syenite
- 2 - Aplite
- 3 - Gabbro
- 4 - Granite

SUFFIXES FOR STRUCTURE & TEXTURE

- 1 - Porphyritic (with >50% of phenocrysts)
- 2 - Porphyritic (<50% of phenocrysts)
- f - Fine grained
- l - Lath

MINERAL SUFFIX

- ch - Chlorite
- fd - Feldspar
- qv - Quartz vein

COMPOSITION SUFFIX

- 2 - Felsic
- 3 - Mafic

ALTERATION SUFFIX

- # - Hydrothermal
- h - Silicified

ABBREVIATIONS

- alt. - altered
- ch - chloritic
- fil. - foliated
- mic. - microfractured
- mix - mixed
- sv - syenitized
- tr - trachytic
- incl. - inclusion

FALCONBRIDGE LTD./LTÉE

PN-620 MICHAUD PROPERTY

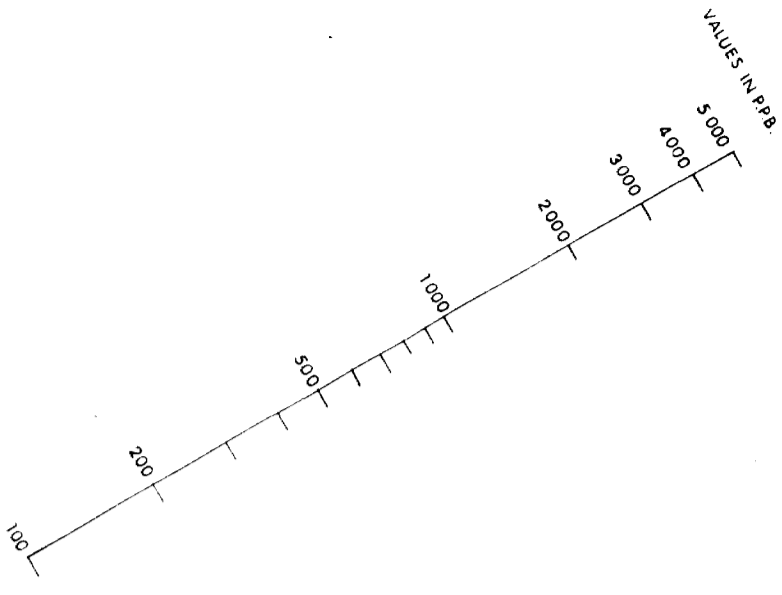
VERTICAL SECTION 320+54E

DDH. N° 620-14

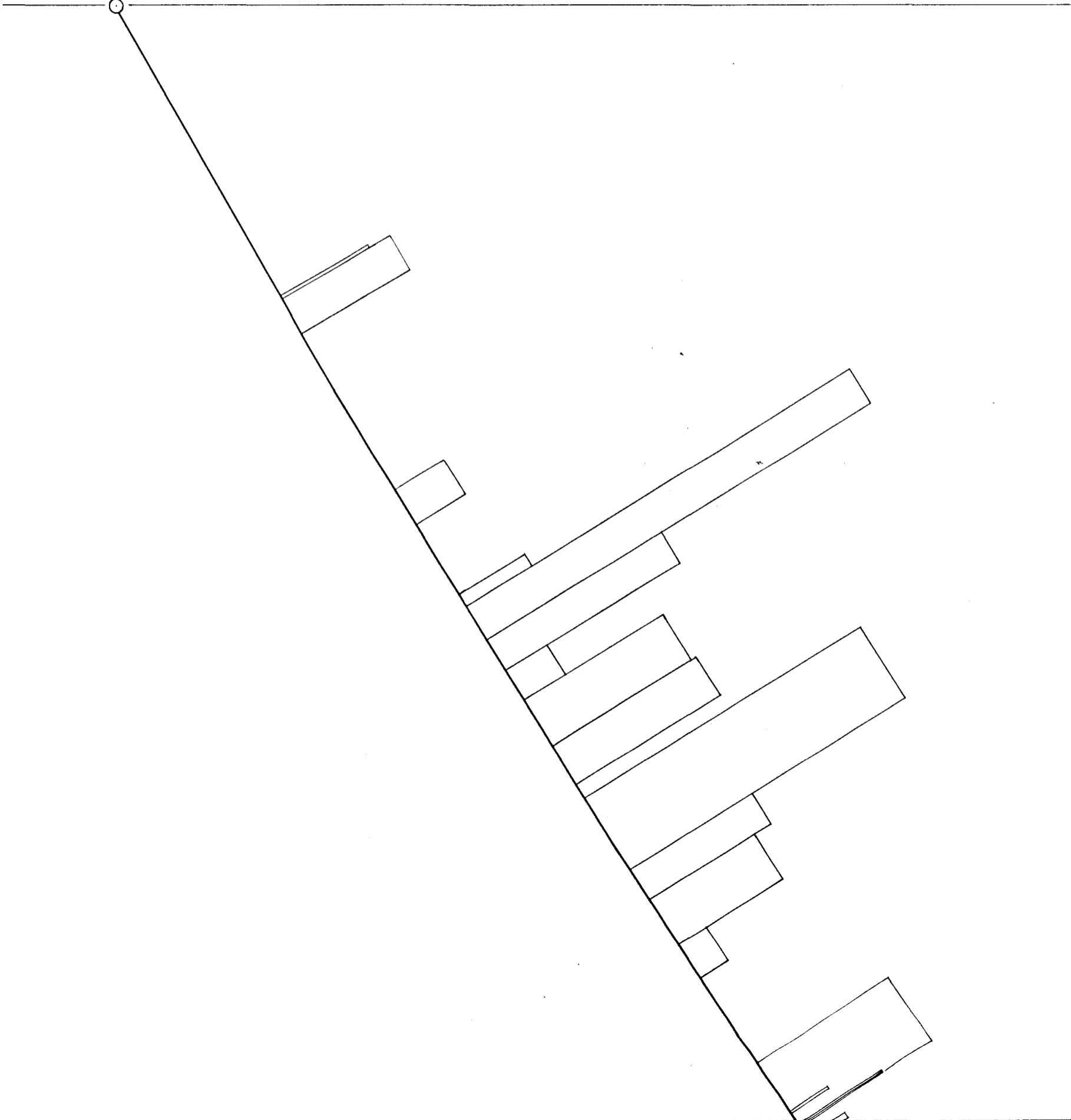
OWNER	MICHAUD	claim	40917, 40918	NTS	42A/k
Logged by	J. André Carrier	date	jan. 1985	Plan	148
Drawn by	Géodès	date	feb. 1985		
Revised by		date			

SCALE / ÉCHELLE 1:1200

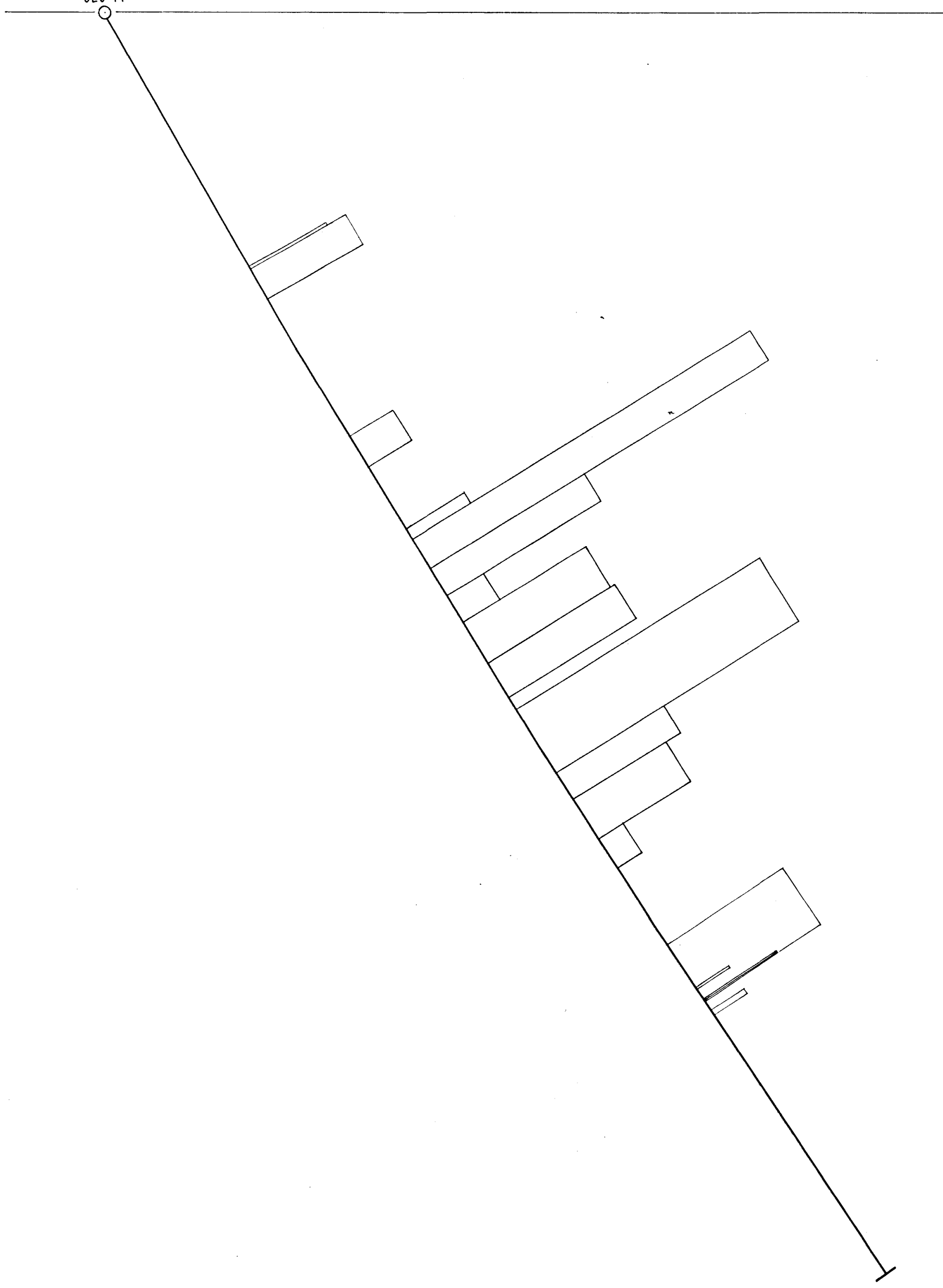





620-14

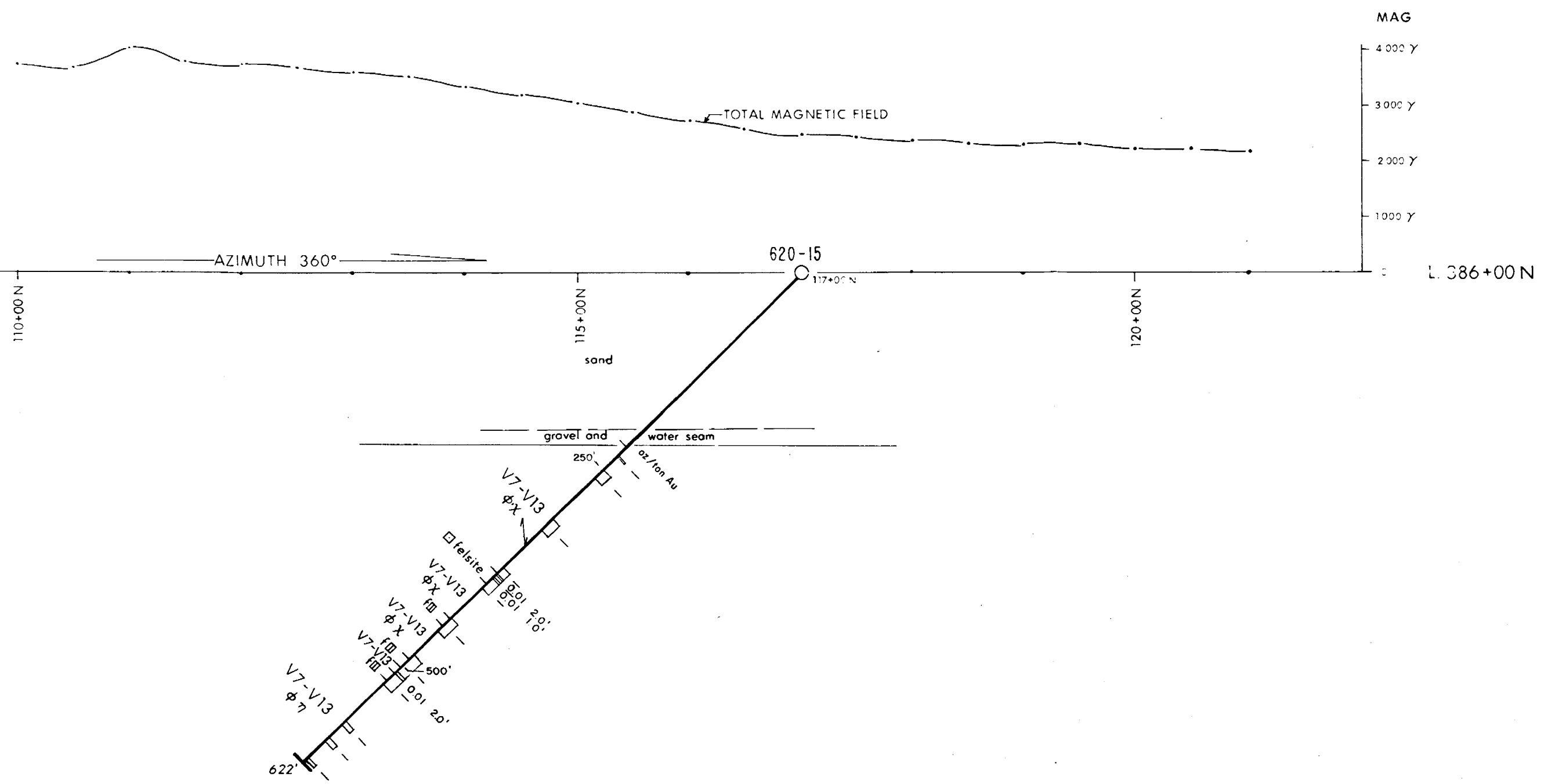


100
200
620-14



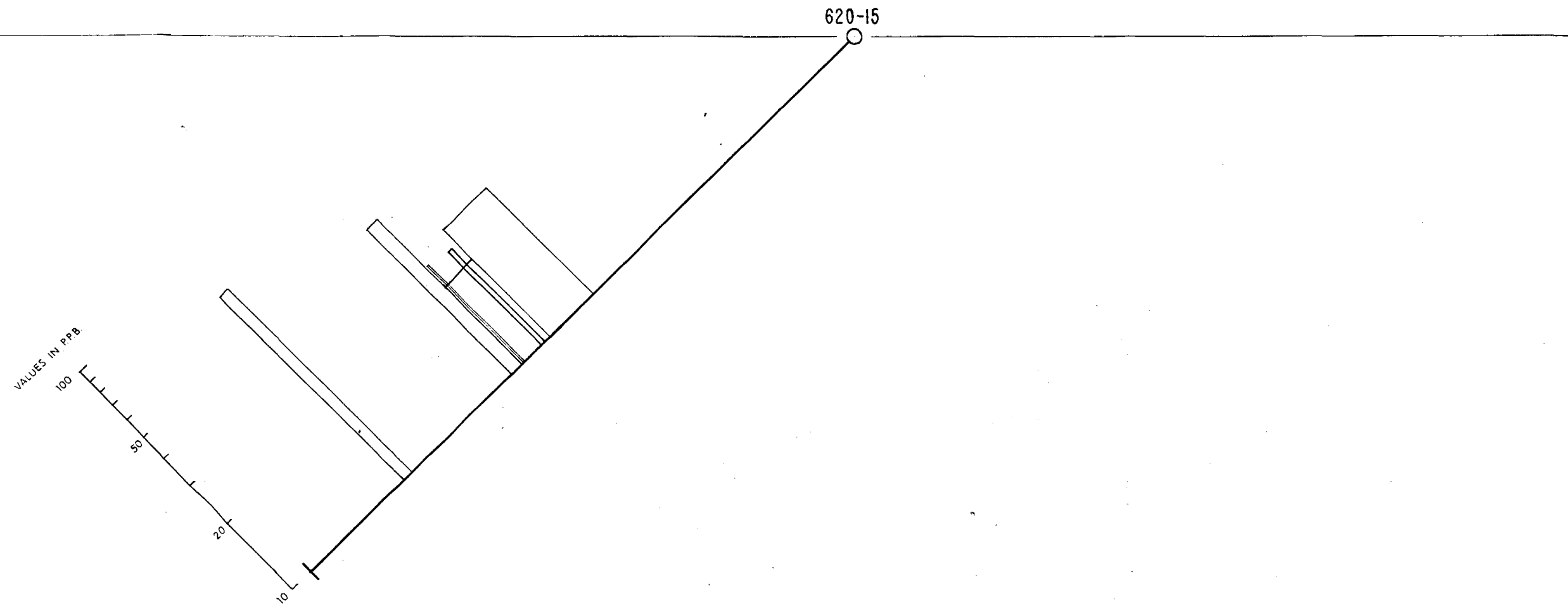
FALCONBRIDGE LTD/LTÉE
PN-620 MICHAUD PROPERTY
 Histogram - Au in p.p.b.
 D.D.H. N° 620-14

Township: MICHAUD	Claim: 40917, 40918	N.T.S.
Logged by:	date	42A/8,9
Journal par:	date	Plan N°
Drawn by: Geodes	date	
Dessiné par:	Feb 1985	
Revised by:	date	
Revisé par:		
SCALE / ÉCHELLE	1:1200	

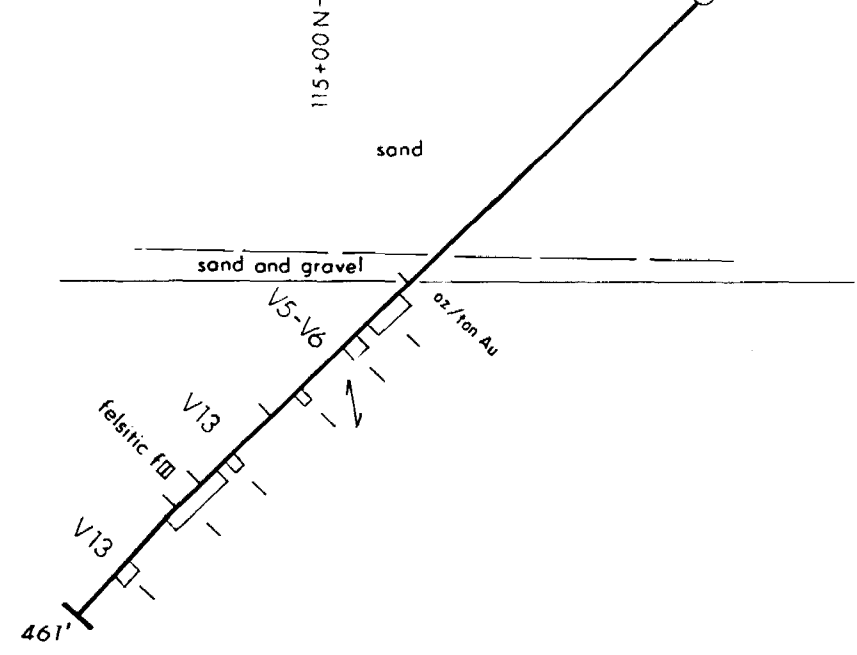


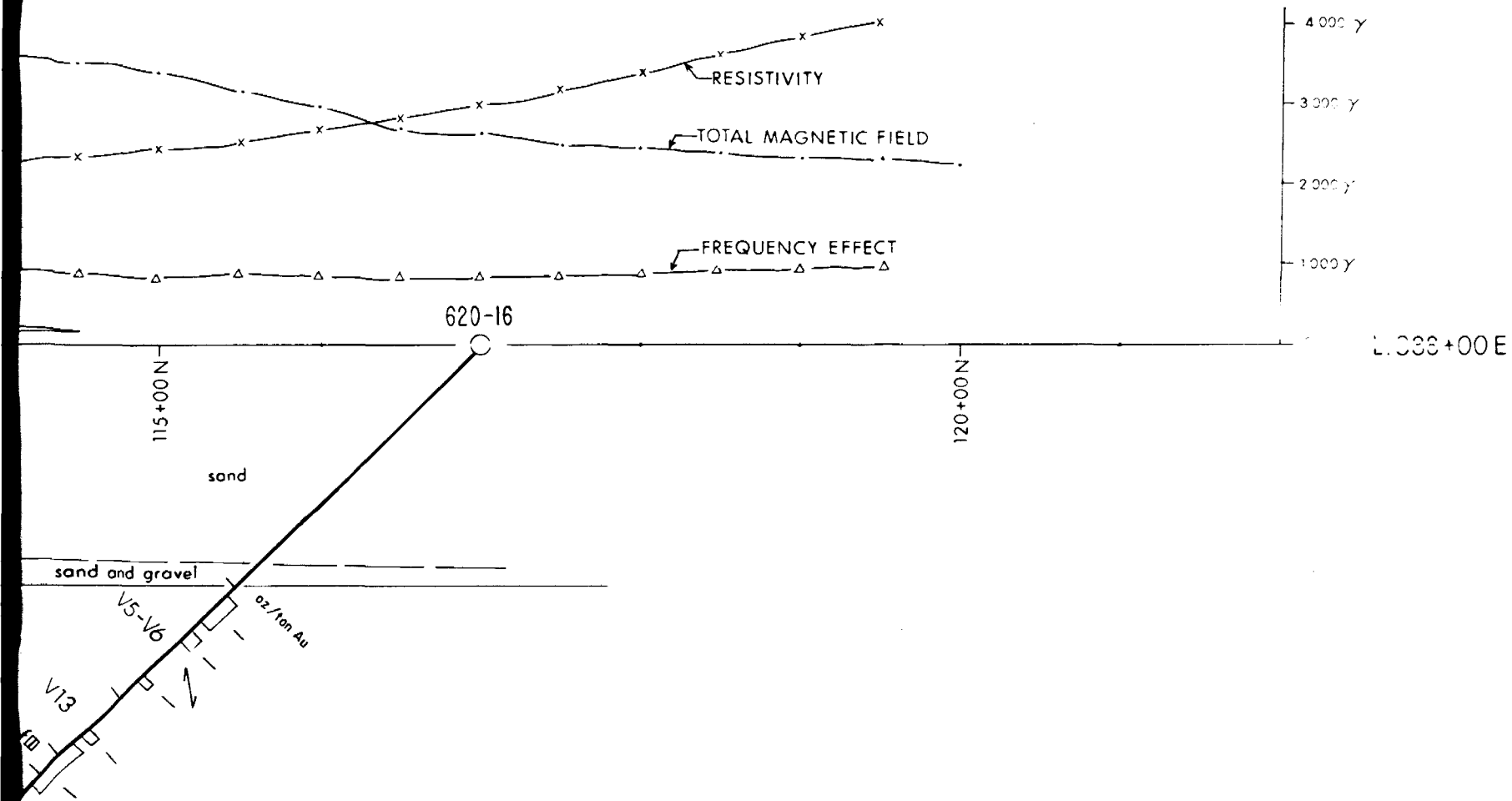
MAG
 4000 Y
 3000 Y
 2000 Y
 1000 Y
 0
 L. 386+00N

FALCONBRIDGE LTD/LTÉE		
PN-620 MICHAUD PROPERTY		
VERTICAL SECTION 386+00E		
D.D.H. N° 620-15		
Township Canton	Michaud MICHAUD	Claim 40932
Logged by Journal par	J. André Carrier	Date nov. 1984
Drawn by Dessiné par	Geodes	feb. 1985
Revised by Revisé par		
SCALE / ÉCHELLE 1:1200		



FALCONBRIDGE LTD/LTÉE			
PN-620 MICHAUD PROPERTY			
Histogram - Au in p.p.b.			
DDH. N° 620-15			
Township Canton	MICHAUD	Claim 40932	NTS 42A/8
Logged by Journal par		Date	Plan N°
Drawn by Dessiné par	Geodes	feb 1985	
Revised by Révisé par			
SCALE / ÉCHELLE 1:1200			
0 100' 200'			





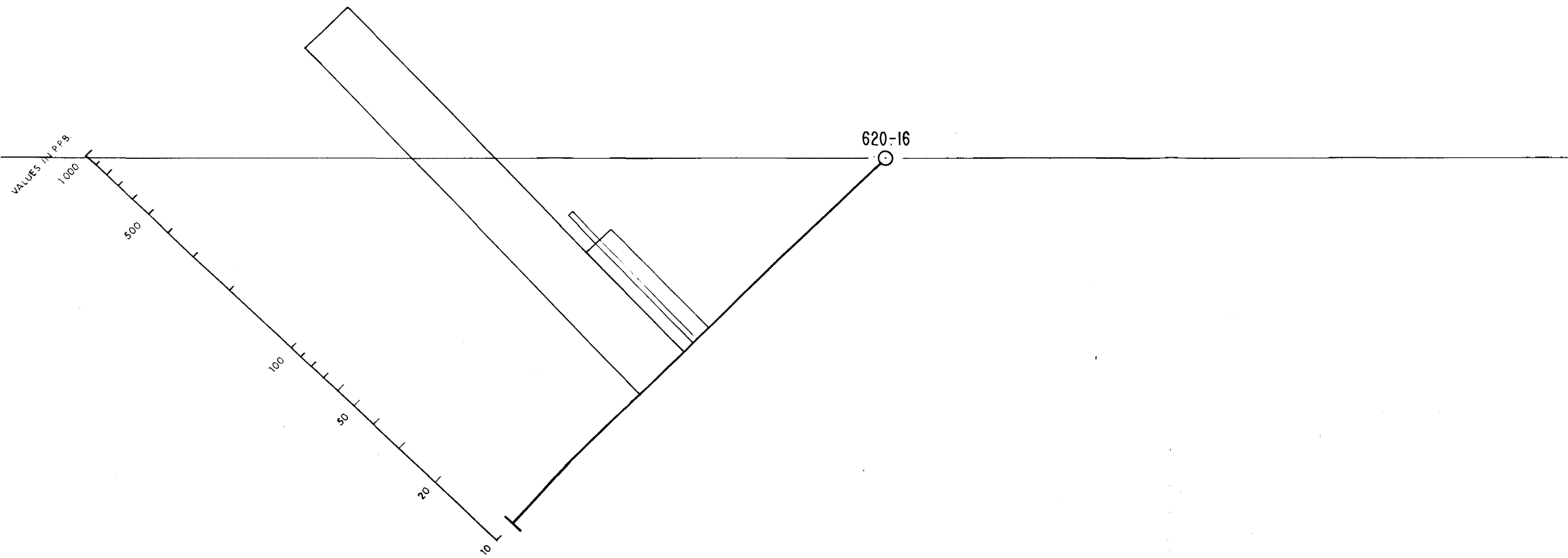
FALCONBRIDGE LTD/LTÉE

PN-620 MICHAUD PROPERTY

VERTICAL SECTION 388+00 E

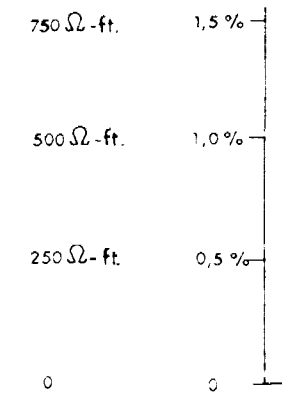
D.D.H. N° 620-16

Township Canton:	MICHAUD	Claim 40932	NTS. 42A/8
Logged by Journal par:	J. A. Carrier	Date nov. 1984	Plan N°
Drawn by Dessiné par:	Geodes	feb. 1985	
Revised by Révisé par:			
SCALE / ÉCHELLE 1:1200			



FALCONBRIDGE LTD/LTÉE			
PN-620 MICHAUD PROPERTY			
Histogram - Au in p.p.b.			
DDH. N° 620-16			
Township Canton	MICHAUD	Q.R. 40932	N.T.S. 42A/8
Logged by Journal par		Date	Plan N°
Drawn by Dessiné par	Geodes	feb. 1985	
Revised by Revisé par			
SCALE / ÉCHELLE 1:1200			

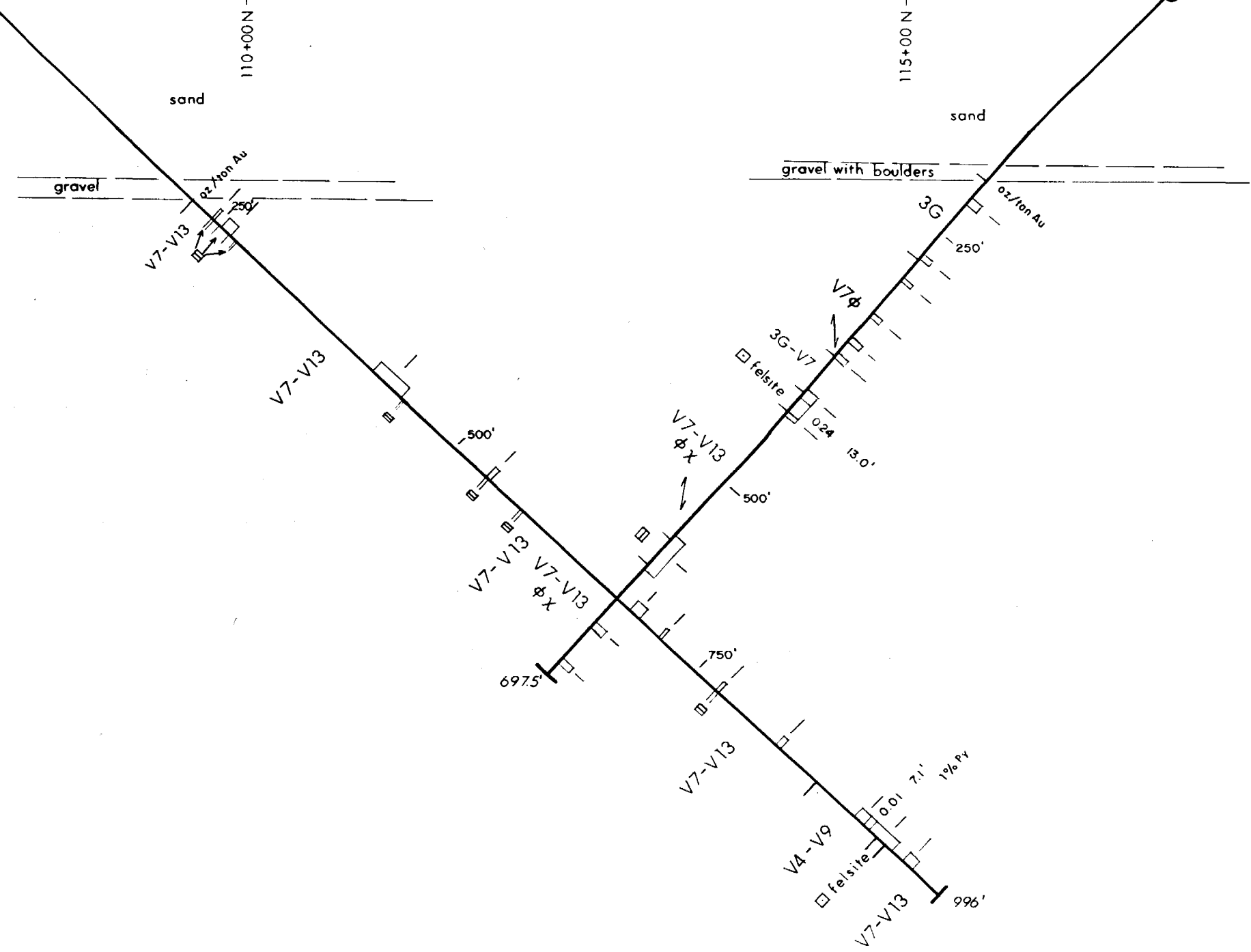
RESIST. n=5 FREQ. EFF.

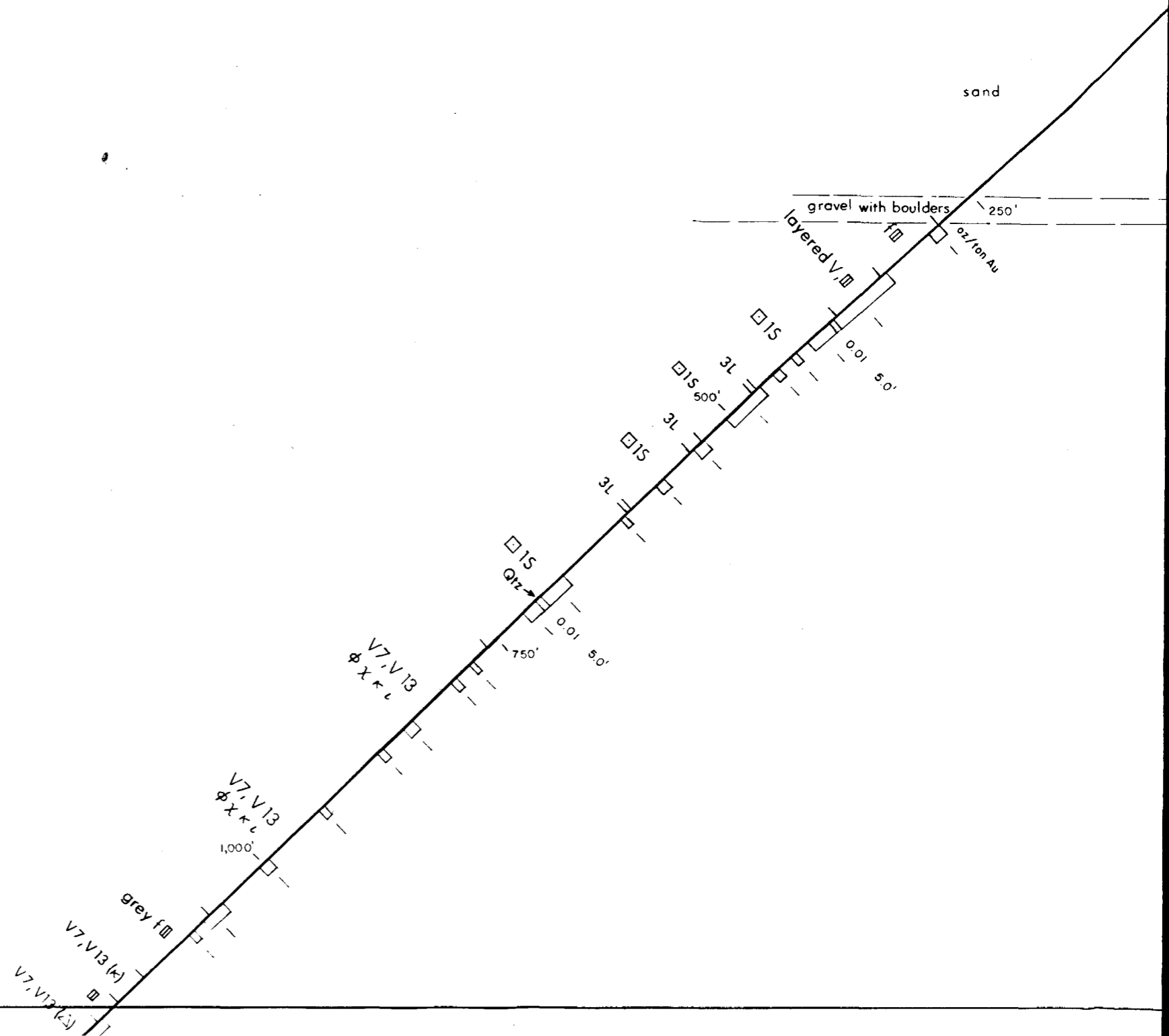
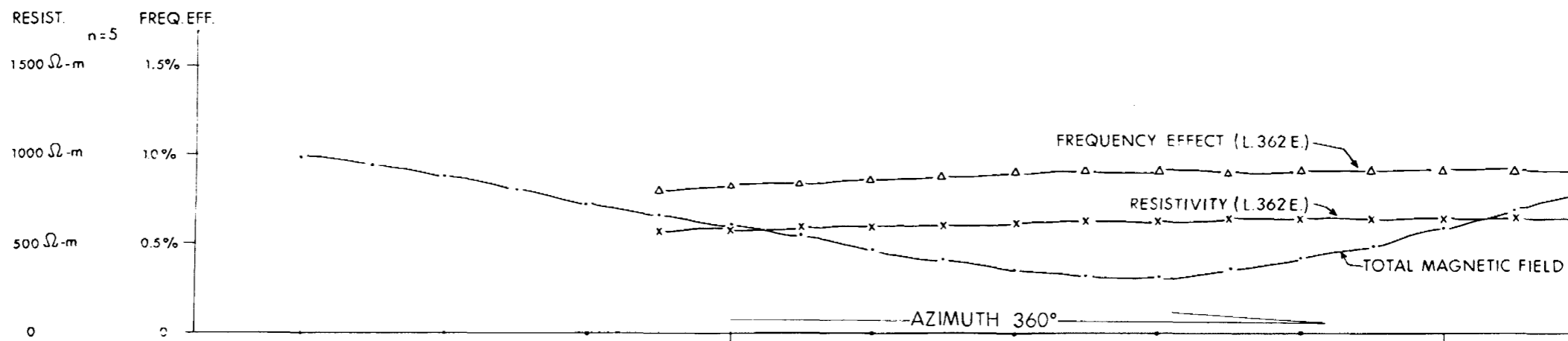


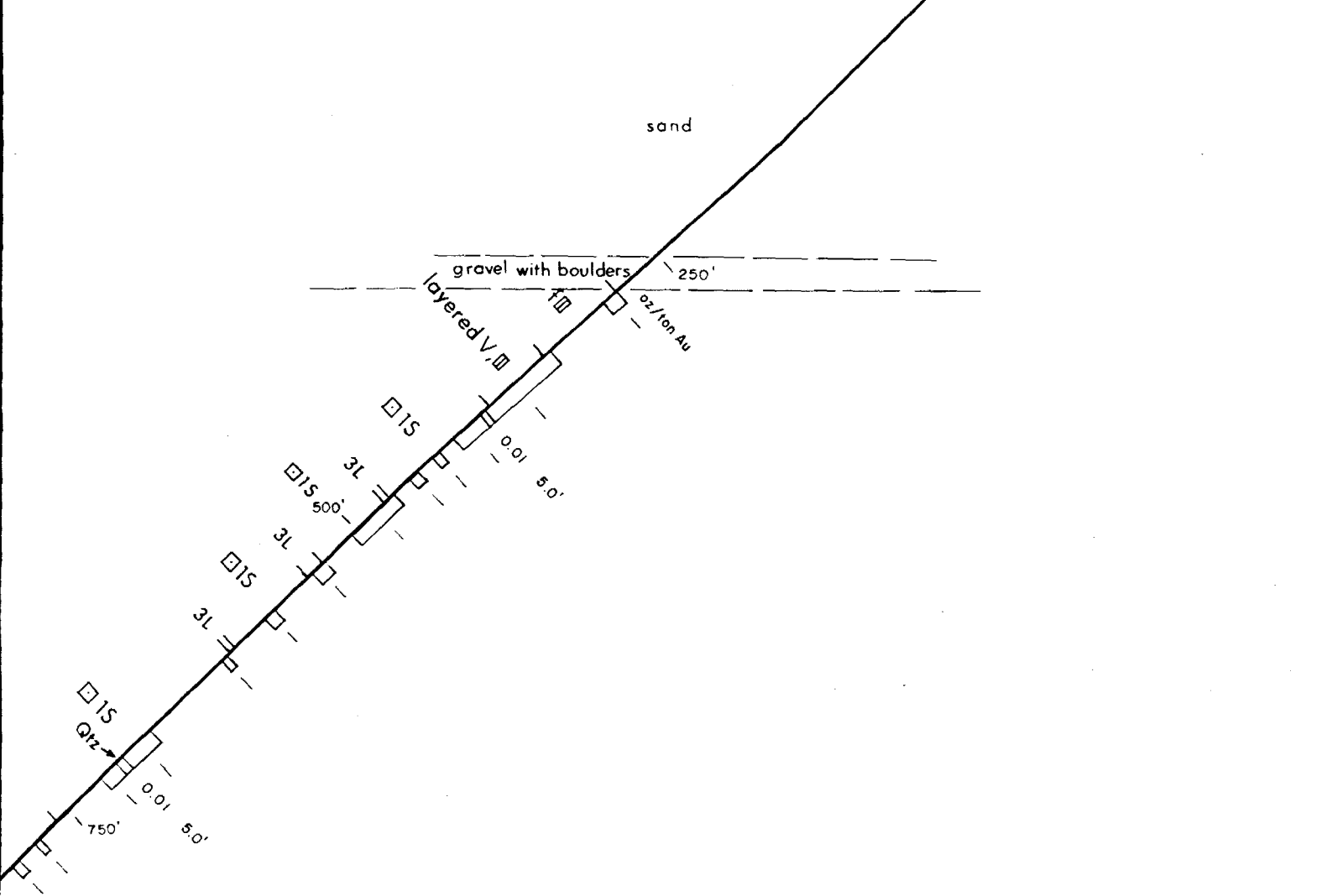
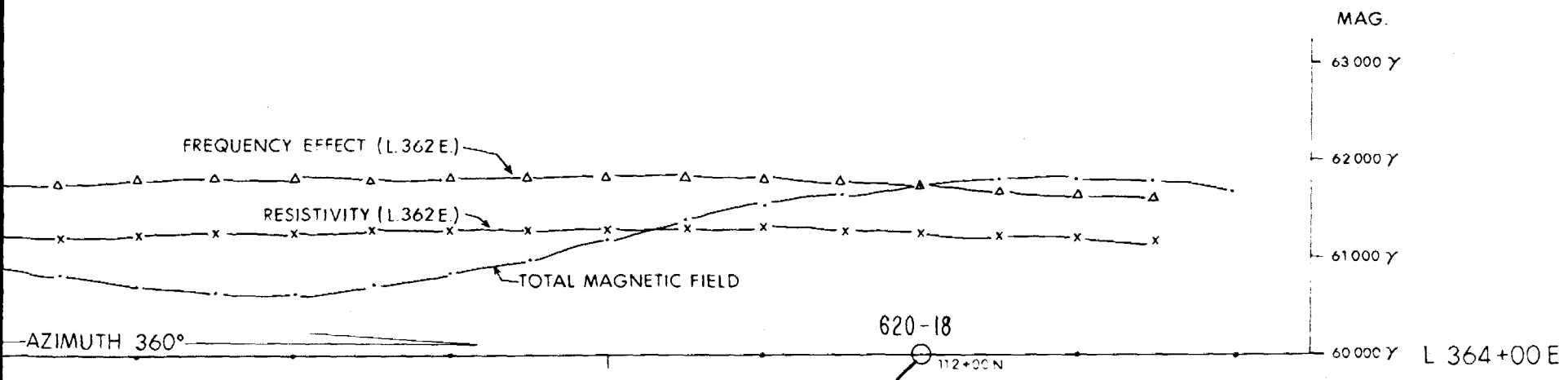
620-17

620-11

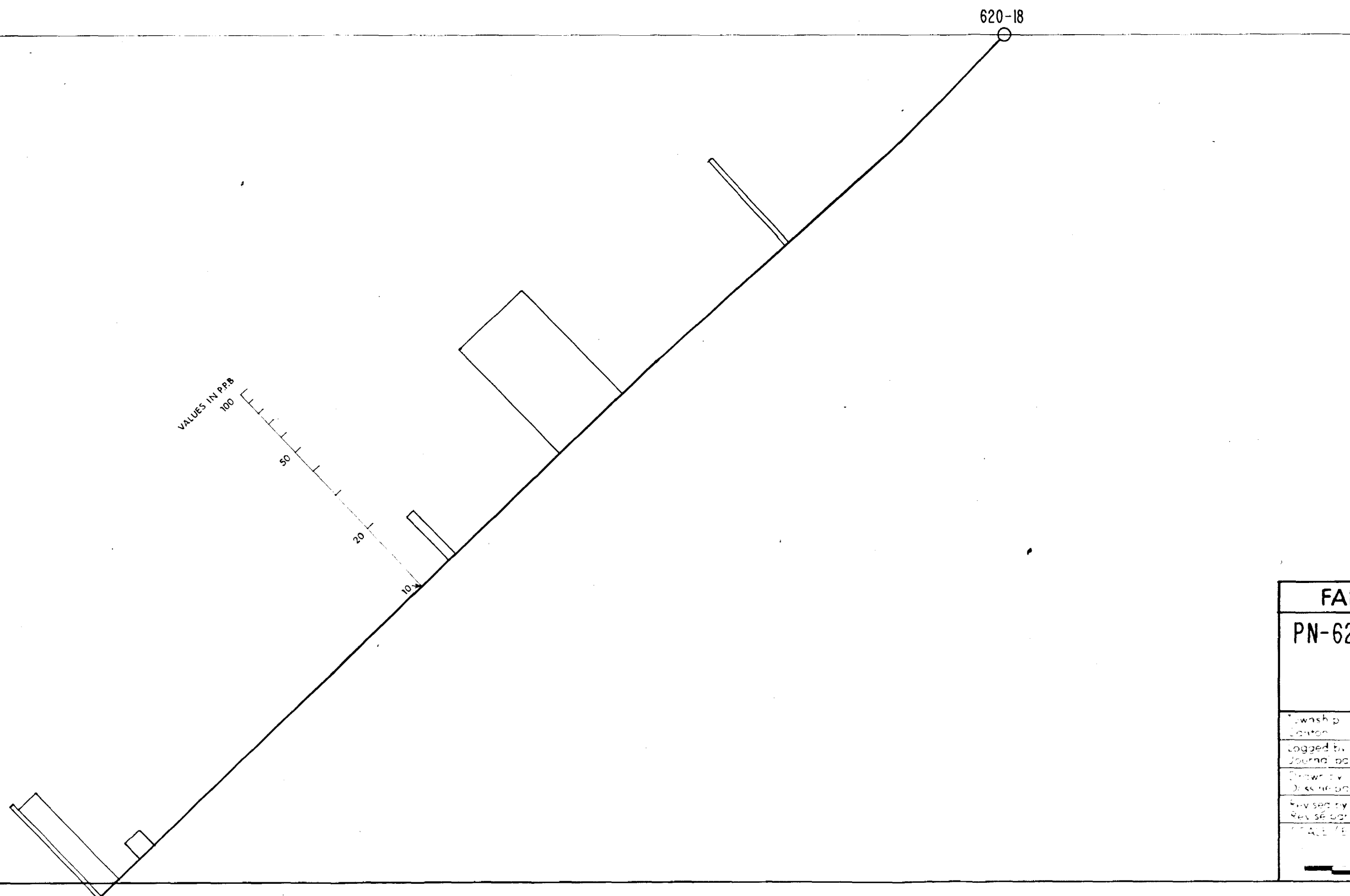
AZIMUTH 360°







FALCONBRIDGE LTD/LTÉE		
PN-620 MICHAUD PROPERTY		
VERTICAL SECTION 364+00 E		
D.D.H. N° 620-18		
Township Canton: MICHAUD	Claim: 40928 45156	N.T.S. 42A/8
Logged by Journal par: J. André Carrier	Date jan. 1985	Plan N°
Drawn by: Dessiné par: Geodes	feb. 1985	
Revised by: Révisé par:		
SCALE / ÉCHELLE 1:1200		



VALUES IN PPB

100

50

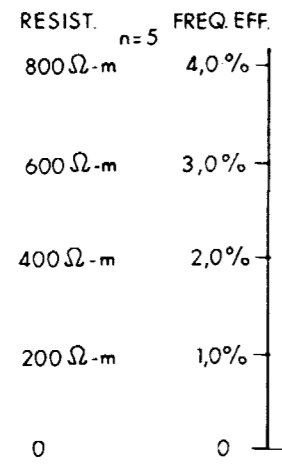
20

10

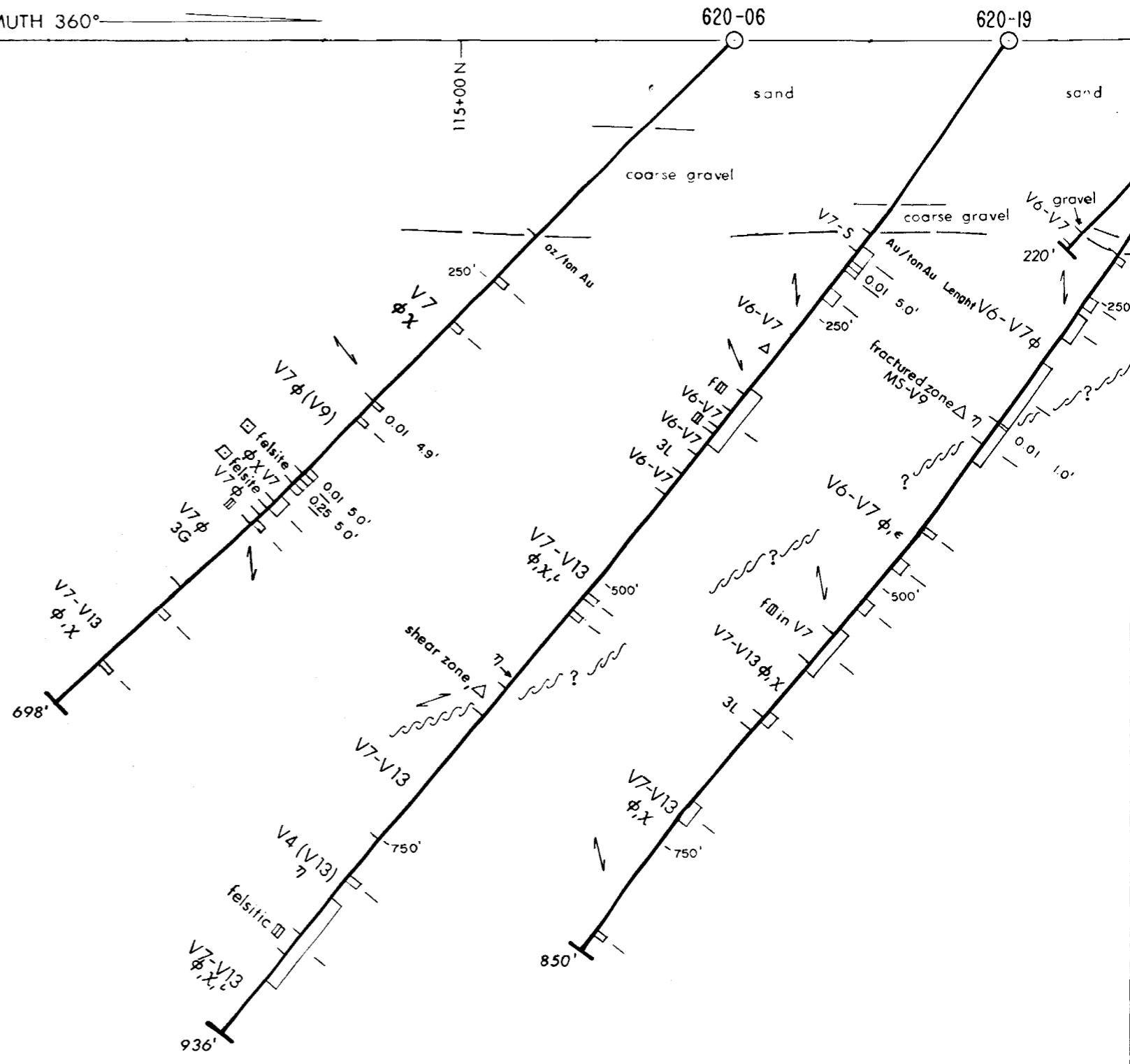
620-18

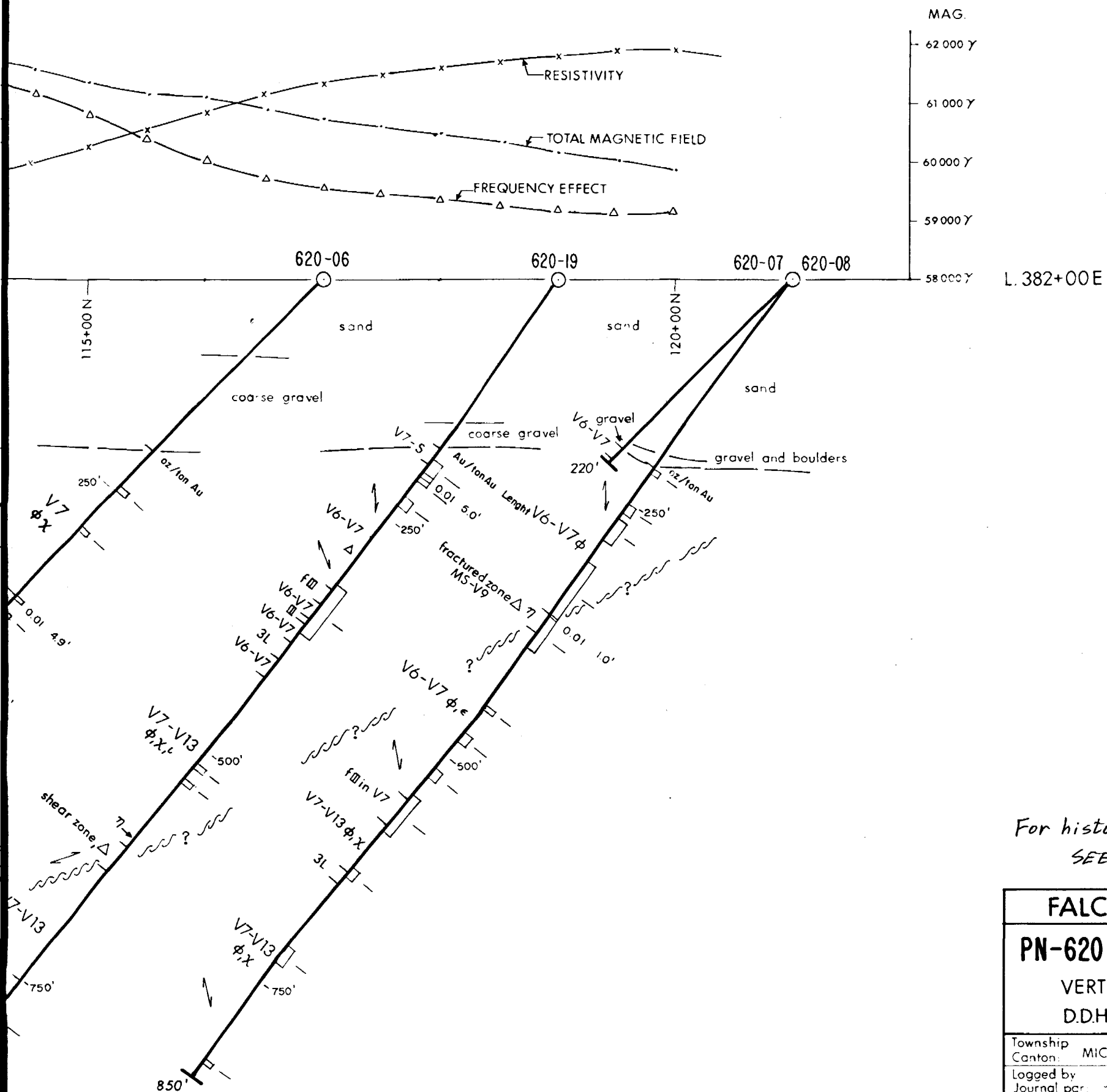
FALCONBRIDGE LTD/LTÉE			
PN-620 MICHAUD PROPERTY			
Histogram - Au in p.p.b.			
DDH N° 620-18			
Township	MICHAUD	40928	42A/8
Location		45156	
Logged by			Plan N°
Drawn by	Geodes	Feb 1985	
Revised by			
Revised by			
FALCONBRIDGE LTD/LTÉE			





AZIMUTH 360°





For histogram - Au in p.p.b,
SEE DDH 620-06, ...

FALCONBRIDGE LTD / LTÉE

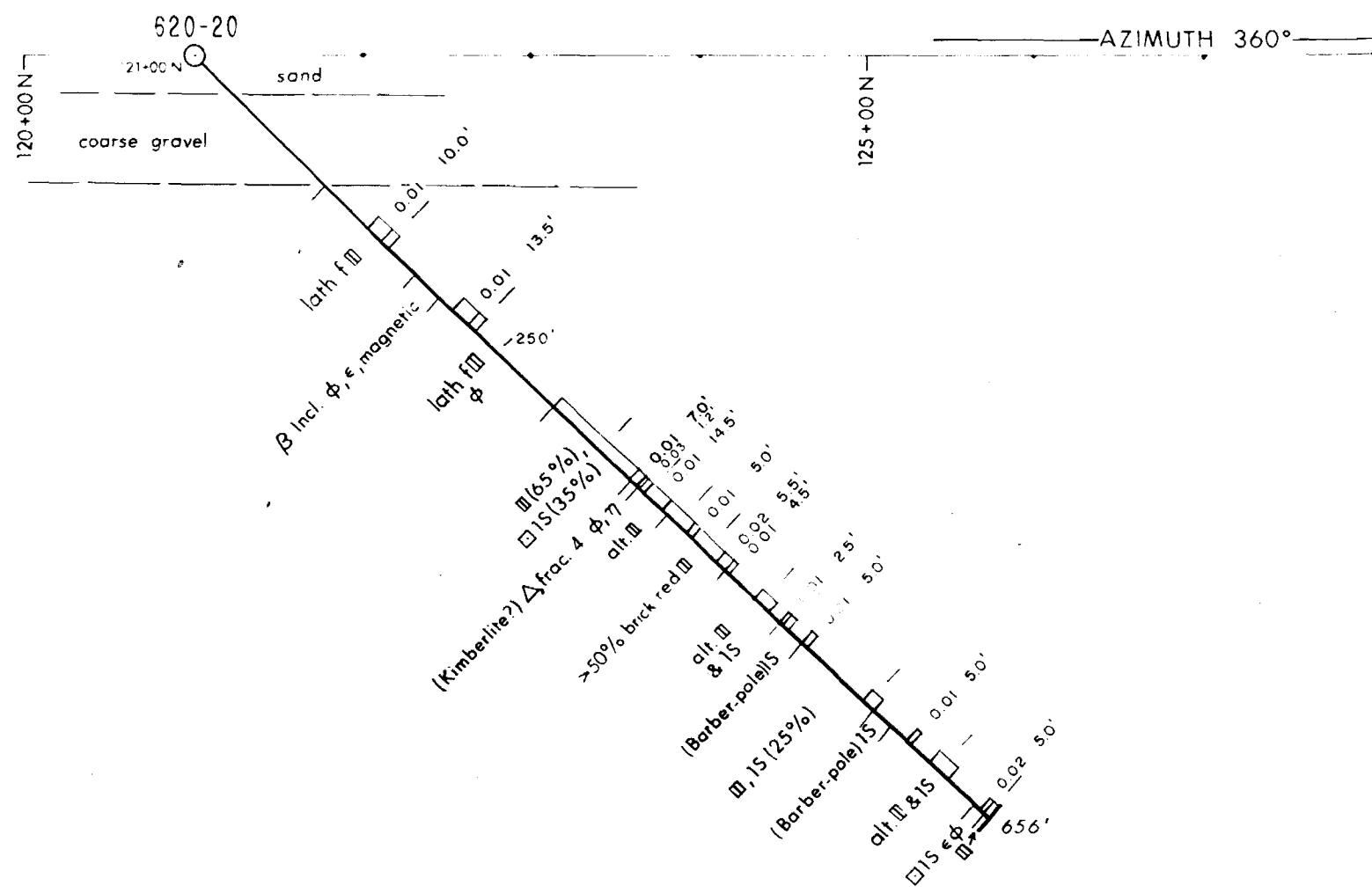
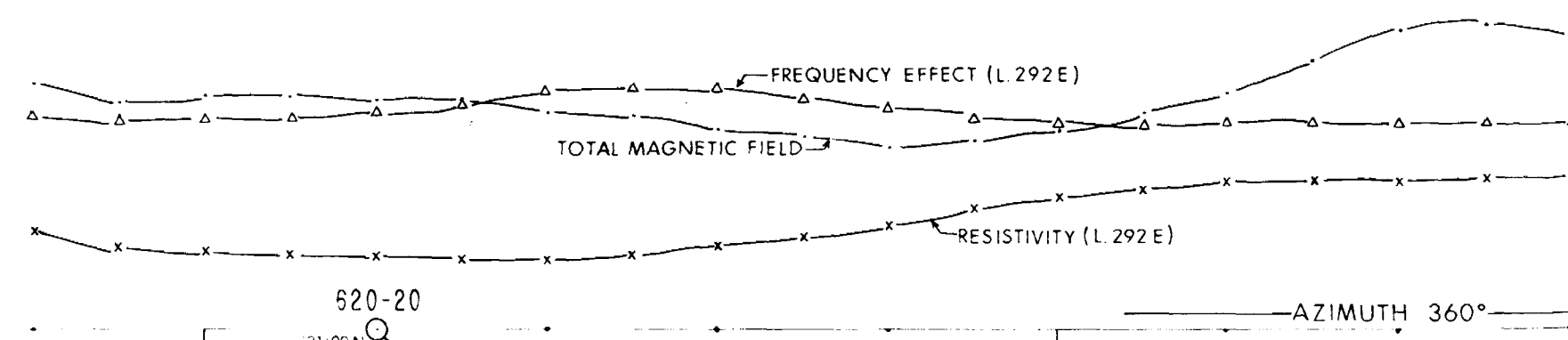
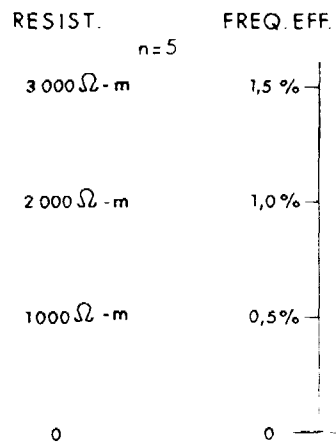
PN-620 MICHAUD PROPERTY

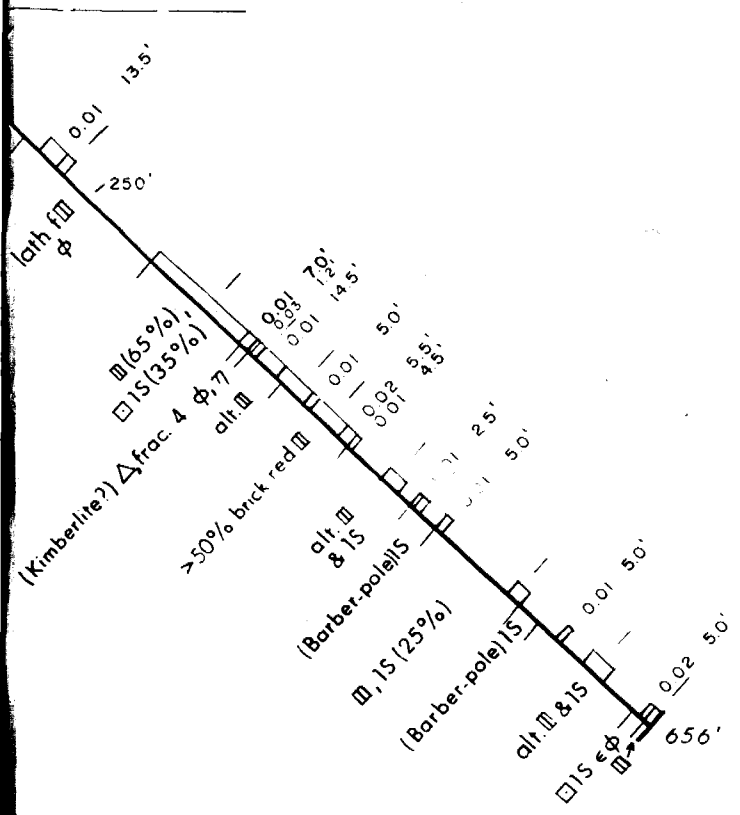
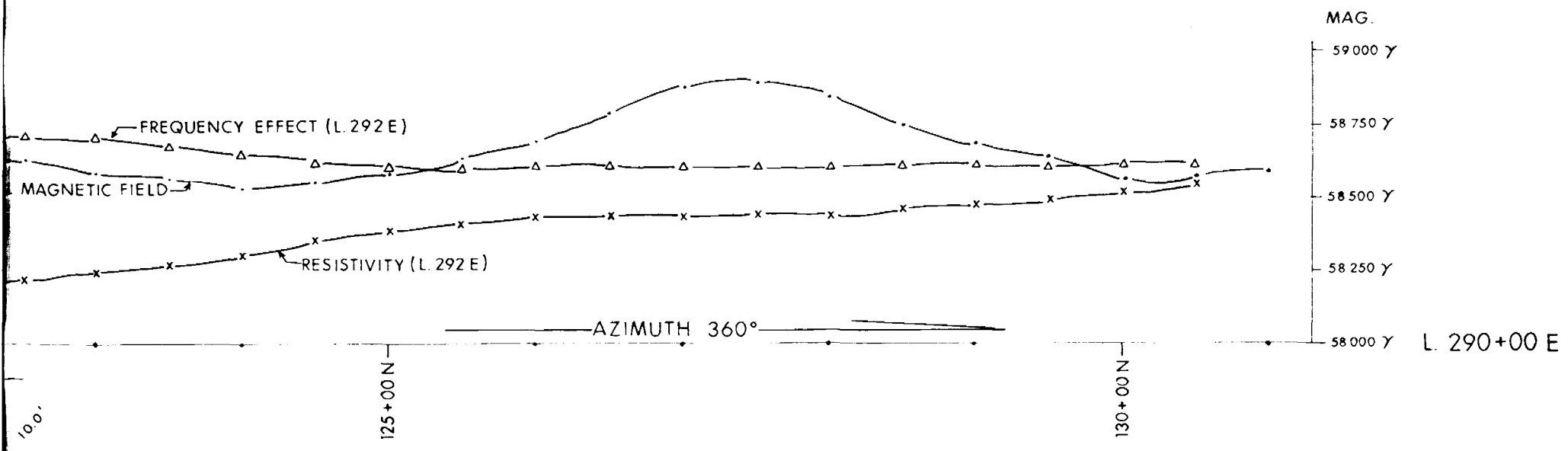
VERTICAL SECTION 382+00E

D.D.H. N^{os} 620-06,07,08,19

Township	MICHAUD	Claim	40931 40932	NTS
Logged by	J. André Carrier	Date	oct. 84, jan. 85	42 A/8
Journal par				Plan N ^o
Drawn by	Geodes		feb. 1985	
Dessiné par				
Revised by				
Revisé par				
SCALE / ÉCHELLE	1:1200			
	0 100' 200'			

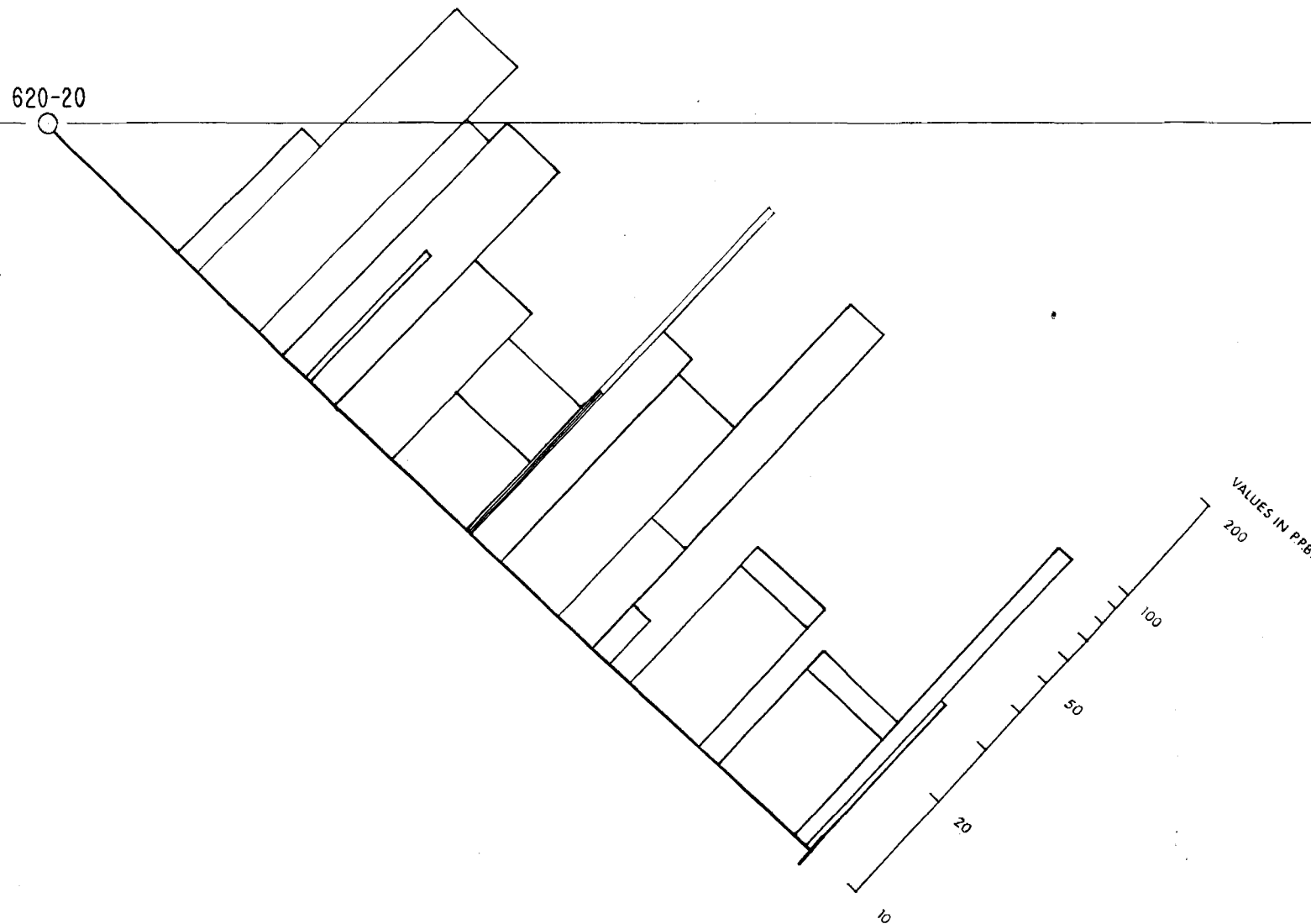




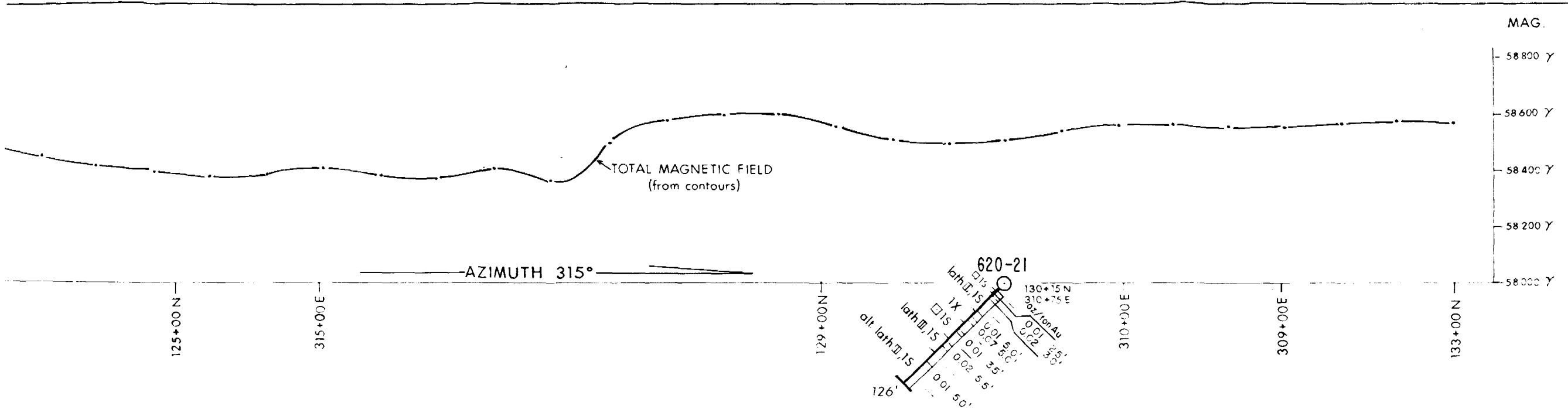


FALCONBRIDGE LTD/LTÉE		
PN-620 MICHAUD PROPERTY		
VERTICAL SECTION 290+00 E		
DDH N° 620-20		
Project MICHAUD	40912	42A/8
Designed by J André Carrier	Jan 1985	Plan 1/8
Drawn by Geodes	Feb 1985	
Scale 1" = 100'		

620-20

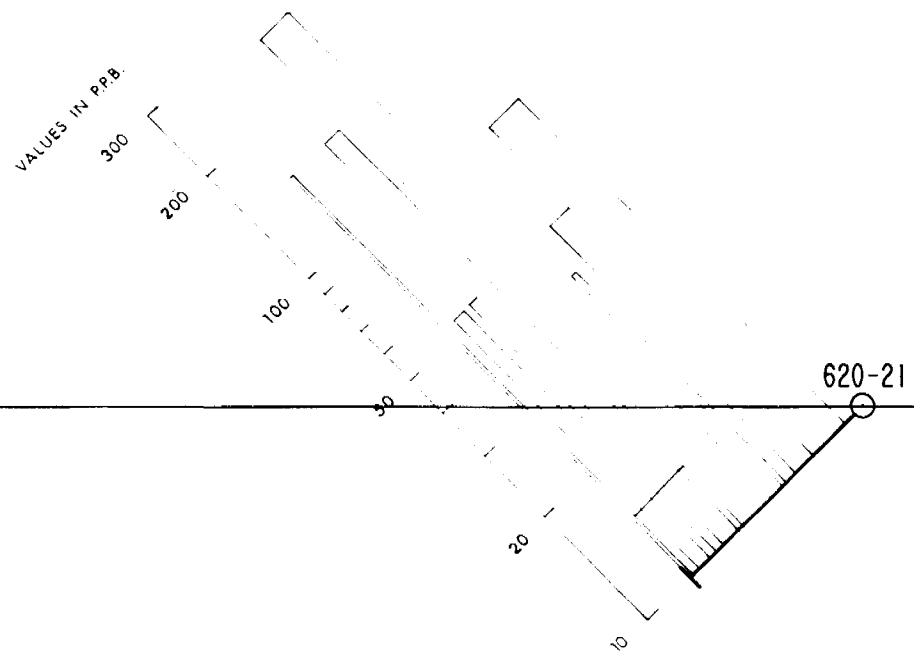


FALCONBRIDGE LTD/LTÉE	
PN-620 MICHAUD PROPERTY	
Histogram - Au in p.p.b.	
DDH. N° 620-20	
Township Canton	MICHAUD 40912
Logged by Journal par	Date
Drawn by Dessiné par	Geodes feb. 1985
Revised by Révisé par	
SCALE / ÉCHELLE	1:1200
0	100 200



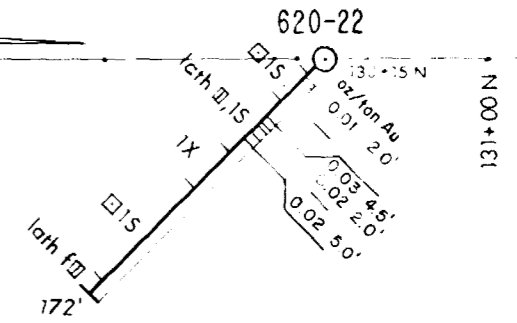
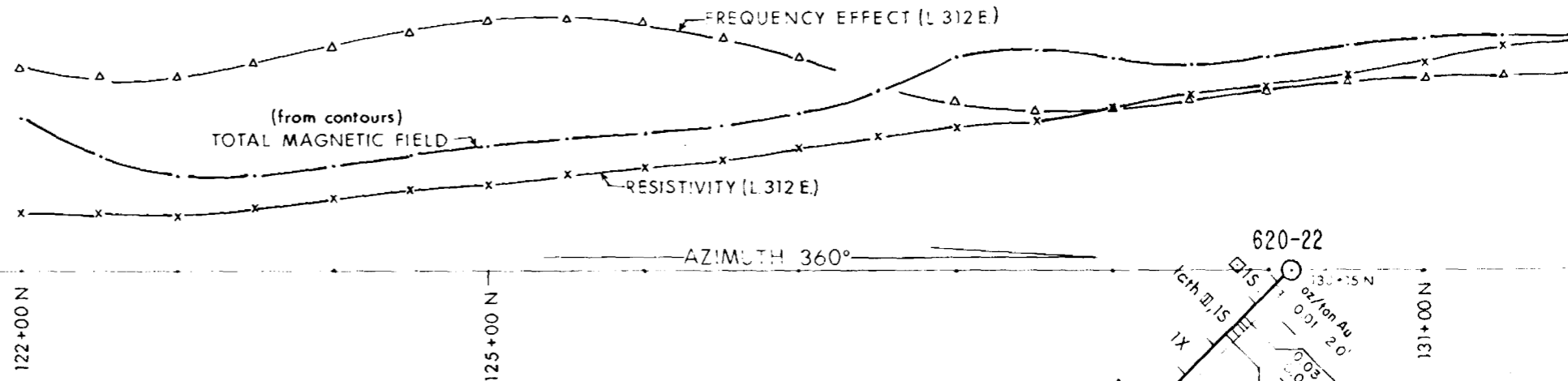
FALCONBRIDGE LTD/LTÉE			
PN-620 MICHAUD PROPERTY			
VERTICAL SECTION 310+75 E			
DDH N° 620-21			
Location	MICHAUD	40915	42A/8
Prepared by	J. André Carrier	Jan. 1985	Plan 15
Activity	Geodesy	Feb 1985	
Property			

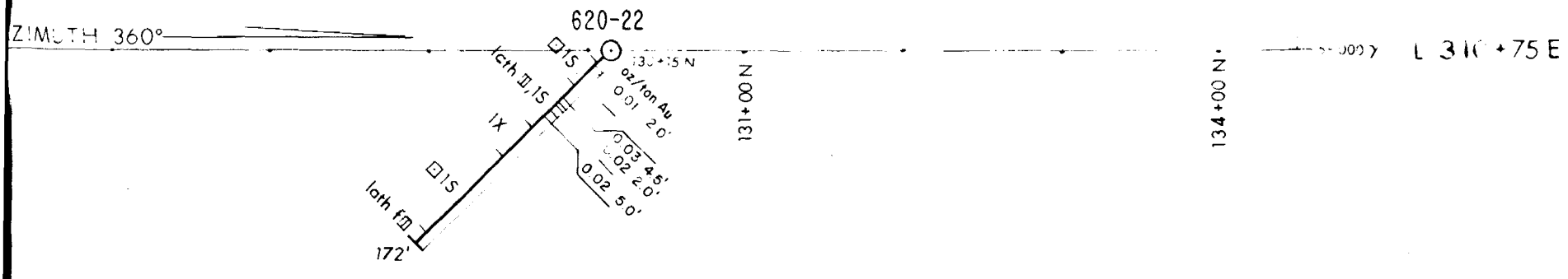
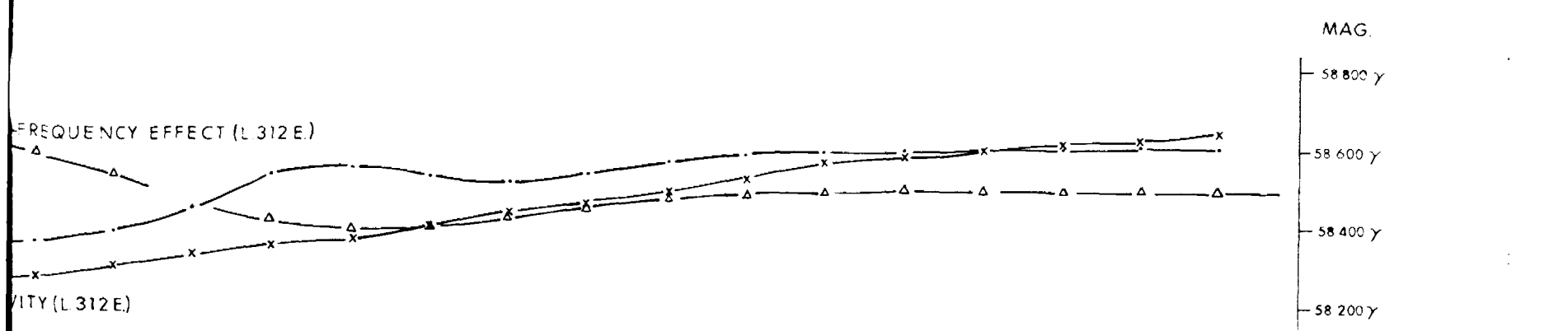




FALCONBRIDGE LTD/LTÉE		
PN-620 MICHAUD PROPERTY		
Histogram - Au in p.p.b.		
D.D.H. N° 620-21		
Township: Canton: MICHAUD	Claim: 40915	N.T.S. 42A/8
Logged by:	Date	Plan N°
Journal par:		
Drawn by: Dessiné par: Geodes	feb. 1985	
Revised by: Revisé par:		
SCALE / ÉCHELLE 1:1200		

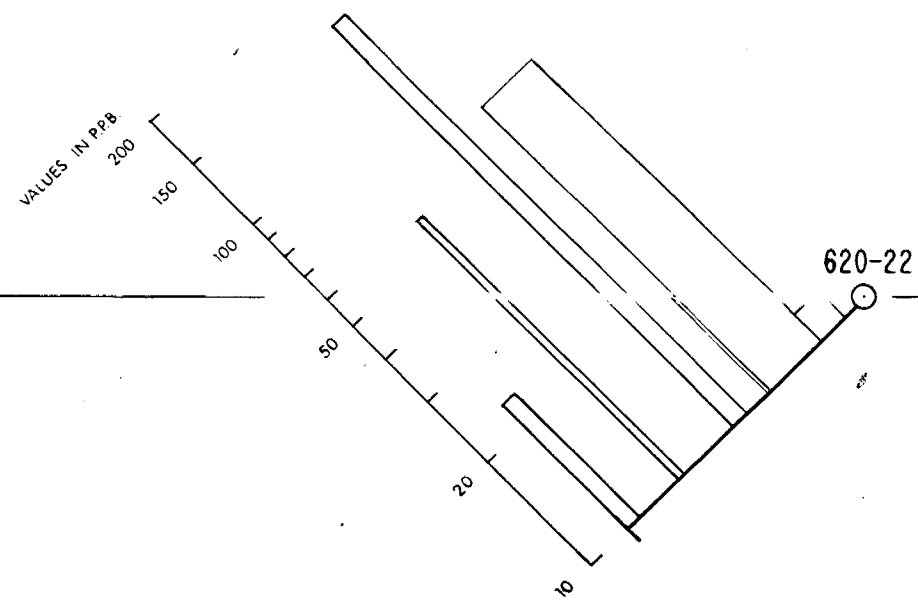
RESIST. $n=5$ FREQ EFF.
 3000 Ω - m 1,5%
 2000 Ω - m 1,0%
 1000 Ω - m 0,5%
 0 0



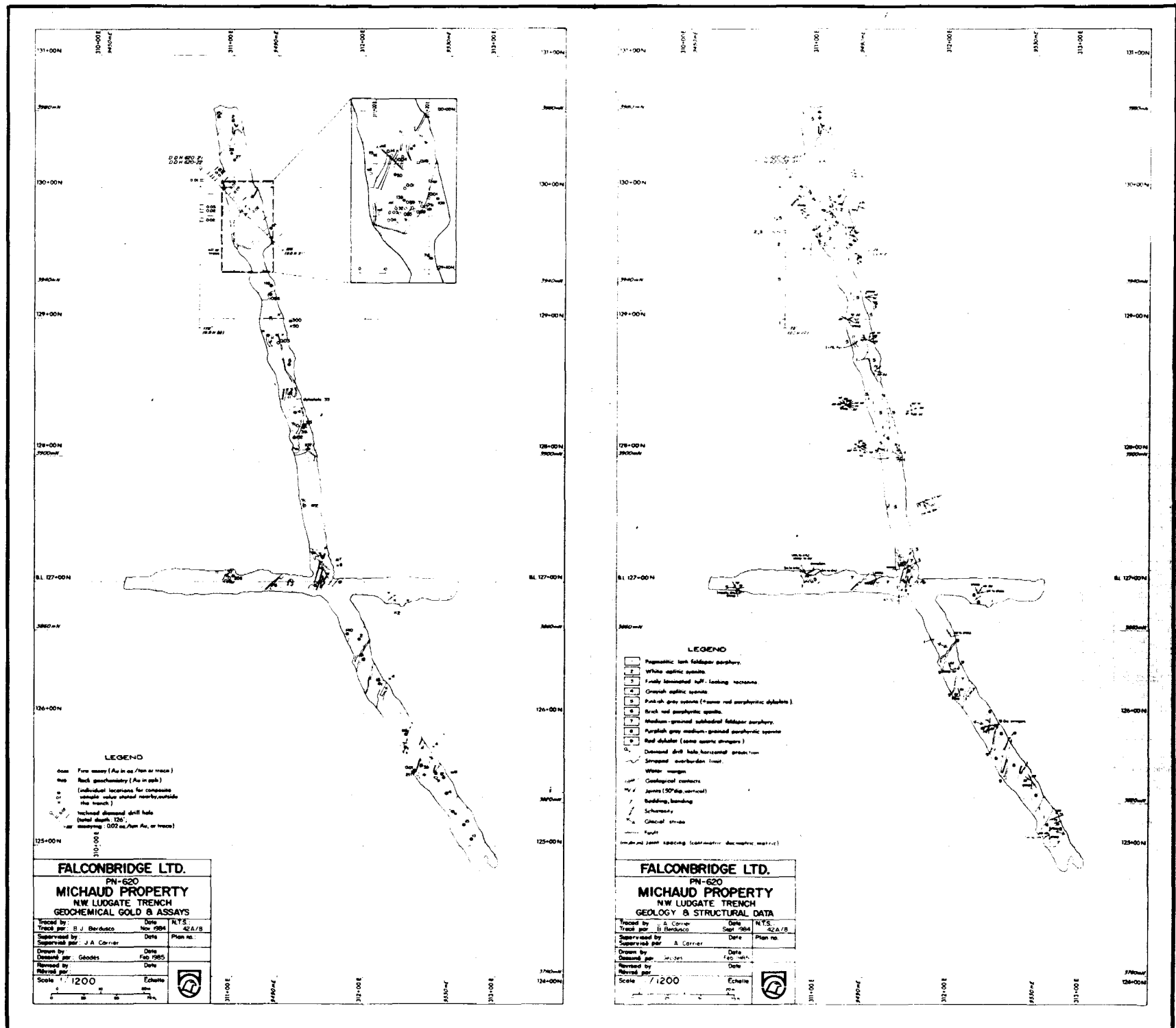


FALCONBRIDGE LTD / LTÉE			
PN-620 MICHAUD PROPERTY			
VERTICAL SECTION 310+75 E			
DDH N° 620-22			
Township Location	MICHAUD	40915	42A/8
Designed by Journal par	J. André Carrier	Jan 1985	Plan N°
Drawn by Dessiné par	Geodes	Feb 1985	
Revised by Révisé par			
SCALE / ÉCHELLE	1:1200		
	100	200	

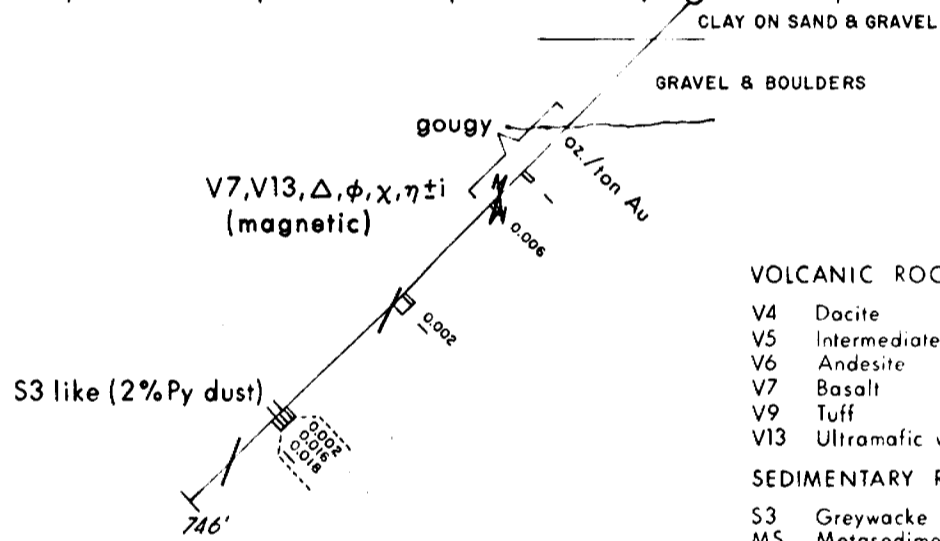
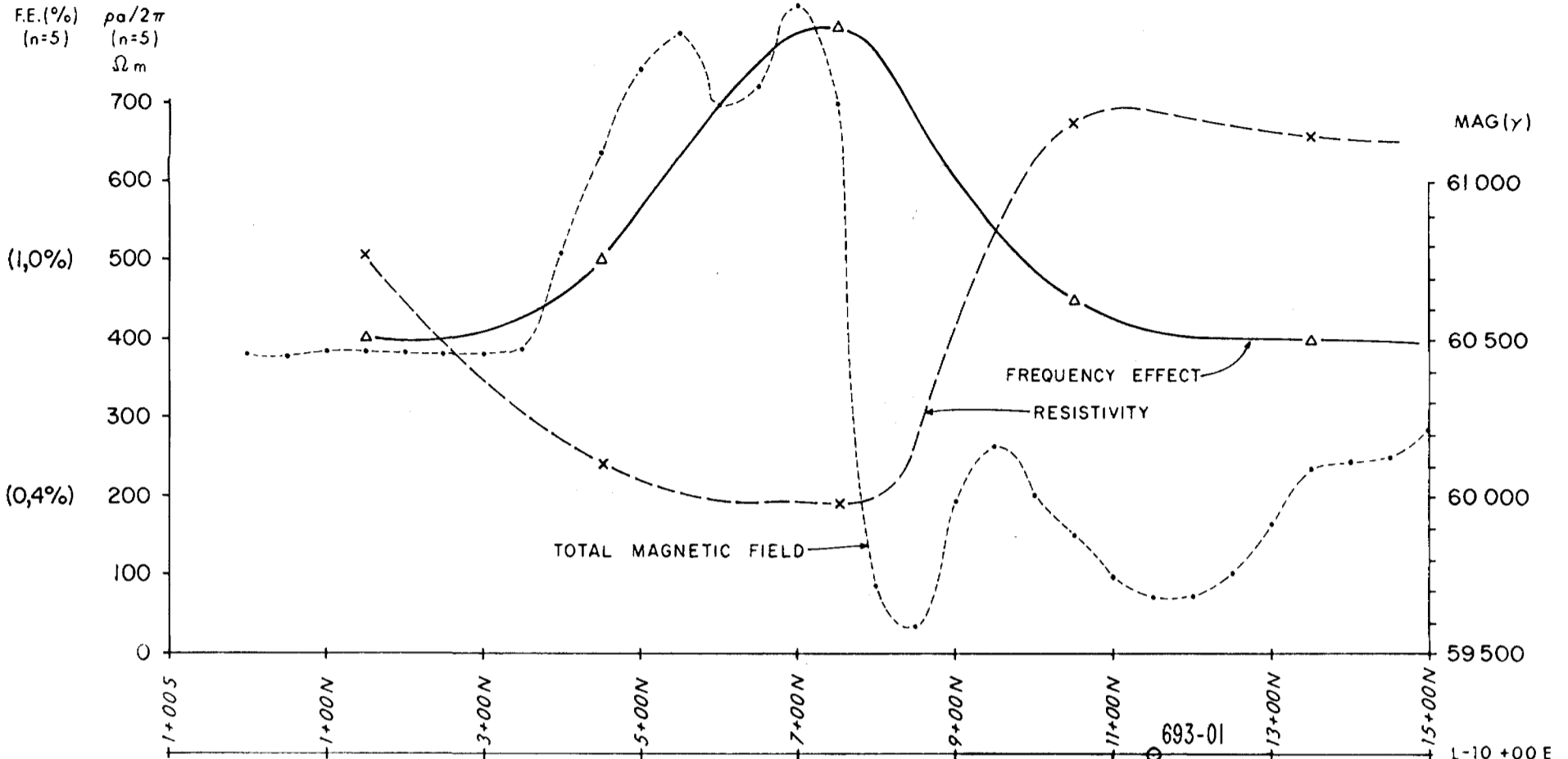




FALCONBRIDGE LTD/LTÉE		
PN-620 MICHAUD PROPERTY		
Histogram - Au in p.p.b.		
DDH. N° 620-22		
Township:	Claim: 40915	N.T.S.
Canton: MICHAUD	Date	42A/8
Logged by:		Plan N°
Journal par:		
Drawn by:	feb. 1985	
Dessiné par: Geodes		
Revised by:		
Revisé par:		
SCALE / ÉCHELLE 1:1200		



AZIMUTH - 180°



VOLCANIC ROCKS

- V4 Dacite
- V5 Intermediate or mafic volcanic rocks
- V6 Andesite
- V7 Basalt
- V9 Tuff
- V13 Ultramafic volcanic rocks

SEDIMENTARY ROCKS

- S3 Greywacke
- MS Metasediments

INTRUSIVE ROCKS

- 3G Gabbro

SUFFIX FOR STRUCTURE & TEXTURE

- Δ Breccia
- Porphyry
- ‡ Sheared

MINERAL SUFFIX

- f Feldspar
- i Talc
- c chlorite

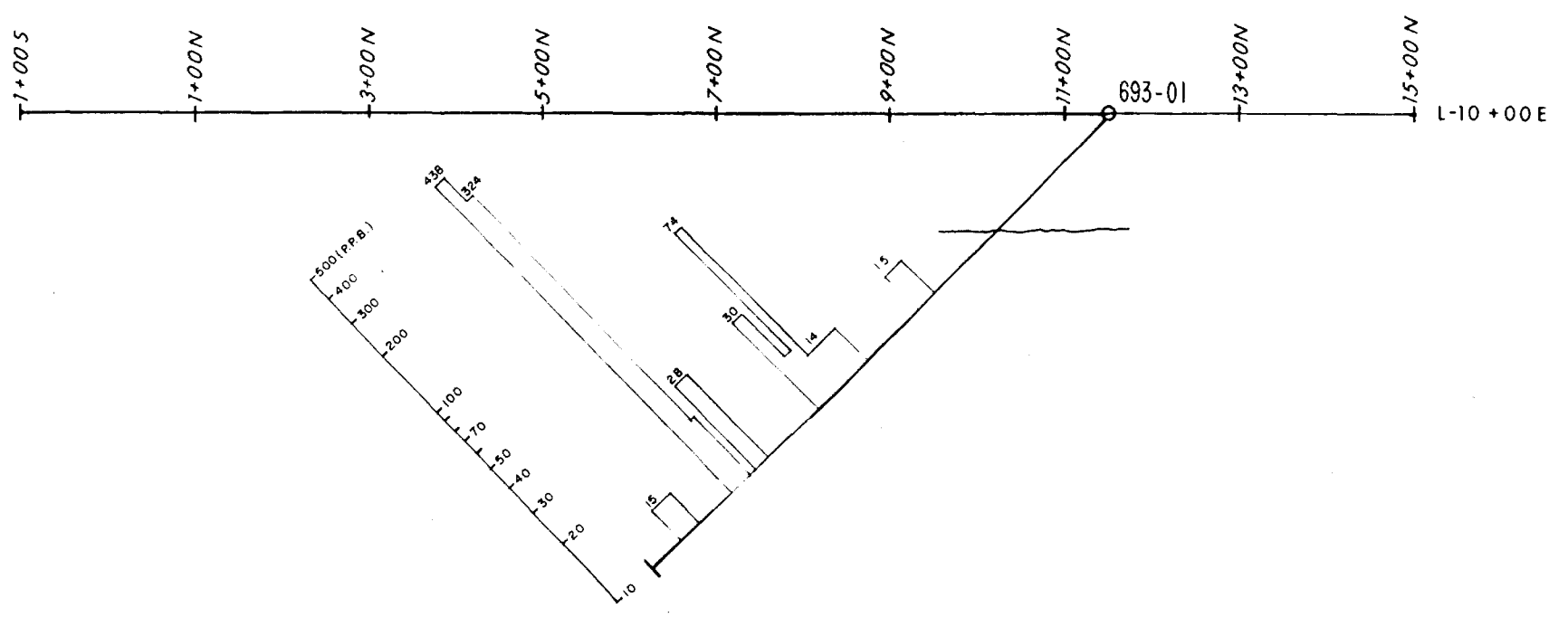
COMPOSITION SUFFIX

- α Felsic
- φ Chloritized
- χ Serpentinized
- σ Silicified
- η Carbonatized

FALCONBRIDGE LTD / LTÉE.			
PN-693 GUIBORD PROPERTY			
VERTICAL SECTION			
DDH 693-01			
Canton: Guibord		Claim: 36725	
Journal par: J.A. Carrier		Date: OCT. 84	N.T.S.: 42 A/8
Dessiné par: Gëodës		Date: FEB. 85	Plan no:
Révisé par:		Date:	
Scale	1" = 200'	Echelle	
0	200'	400'	

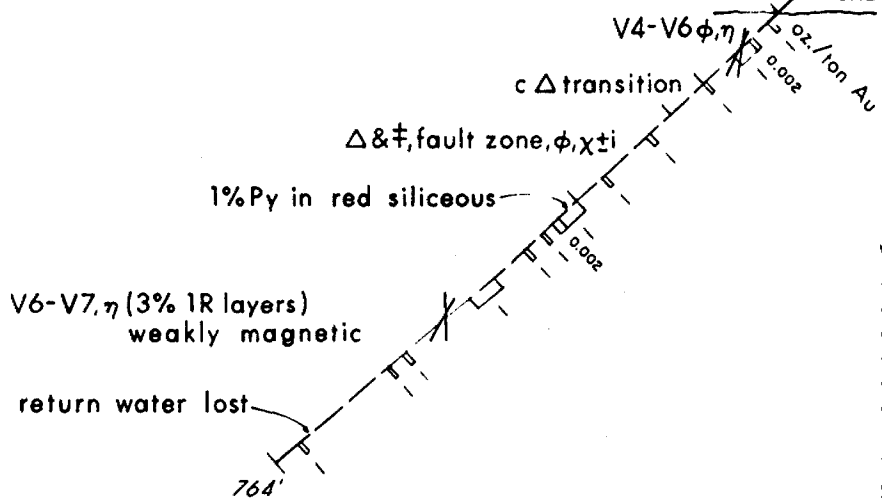
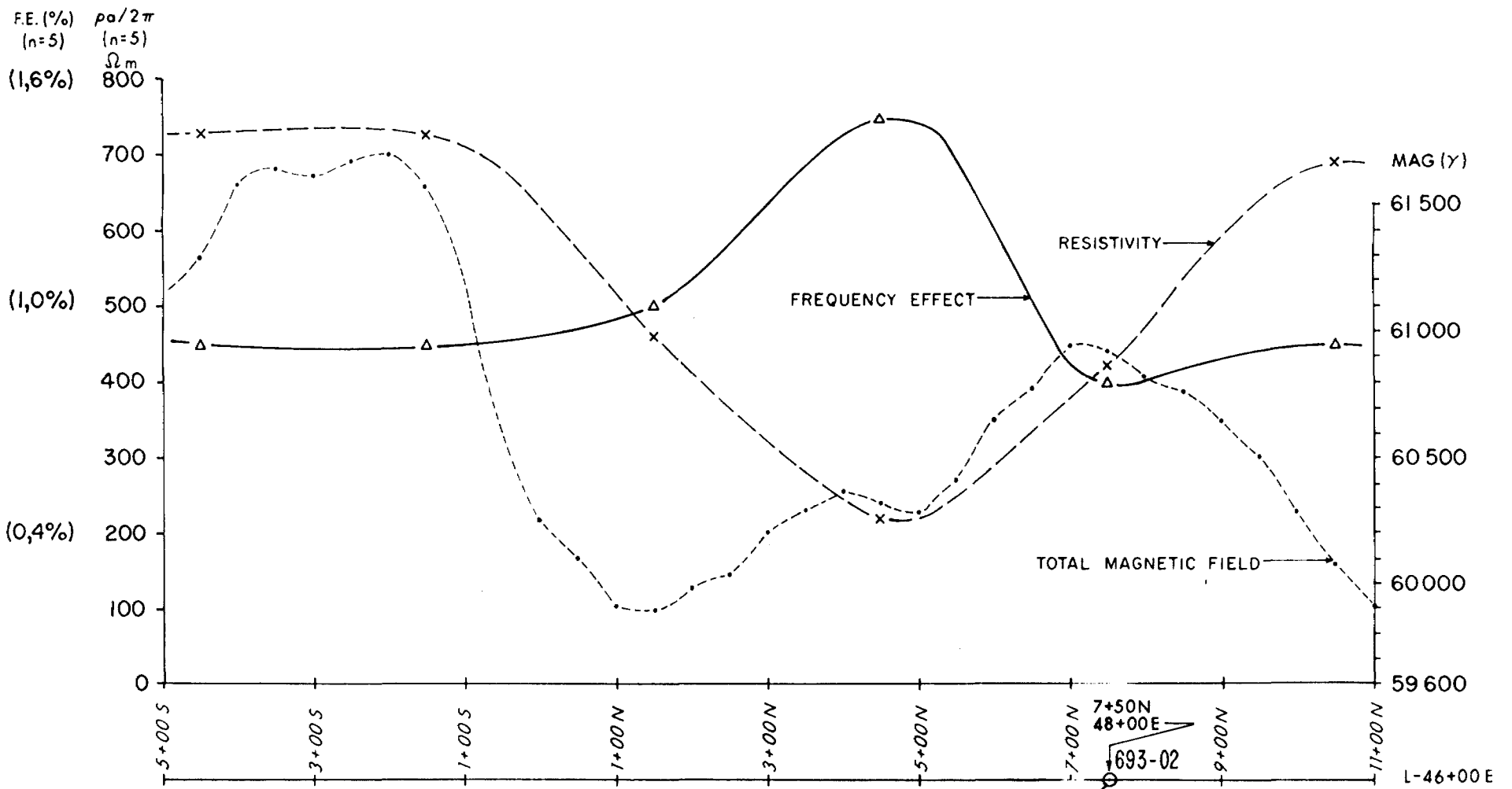


AZIMUTH-180°



FALCONBRIDGE LTD / LTÉE.		
PN-693 GUIBORD PROPERTY		
Histogram - Au in p.p.b. DDH 693-01		
Canton: Guibord	Claim: 36725	
Journal par: J.A. Carrier	Date: OCT. 84	N.T.S.: 42 A/8
Dessiné par: Géodès	Date: FEB. 85	Plan no:
Révisé par:	Date:	
Revised by:	Date:	
Scale	1" = 200'	Echelle
0	200'	400'

AZIMUTH-180°



- VOLCANIC ROCKS**
- V4 Dacite
 - V5 Intermediate or mafic volcanic rocks
 - V6 Andesite
 - V7 Basalt
 - V9 Tuff
 - V13 Ultramafic volcanic rocks
- SEDIMENTARY ROCKS**
- S3 Greywacke
 - MS Metasediments
- INTRUSIVE ROCKS**
- 3G Gabbro
- SUFFIX FOR STRUCTURE & TEXTURE**
- Δ Breccia
 - Porphyry
 - ‡ Sheared
- MINERAL SUFFIX**
- f Feldspar
 - i Talc
 - c chlorite
- COMPOSITION SUFFIX**
- a Felsic
 - φ Chloritized
 - χ Serpentinized
 - σ Silicified
 - η Carbonatized

No histogram-Au in p.p.b. was made.

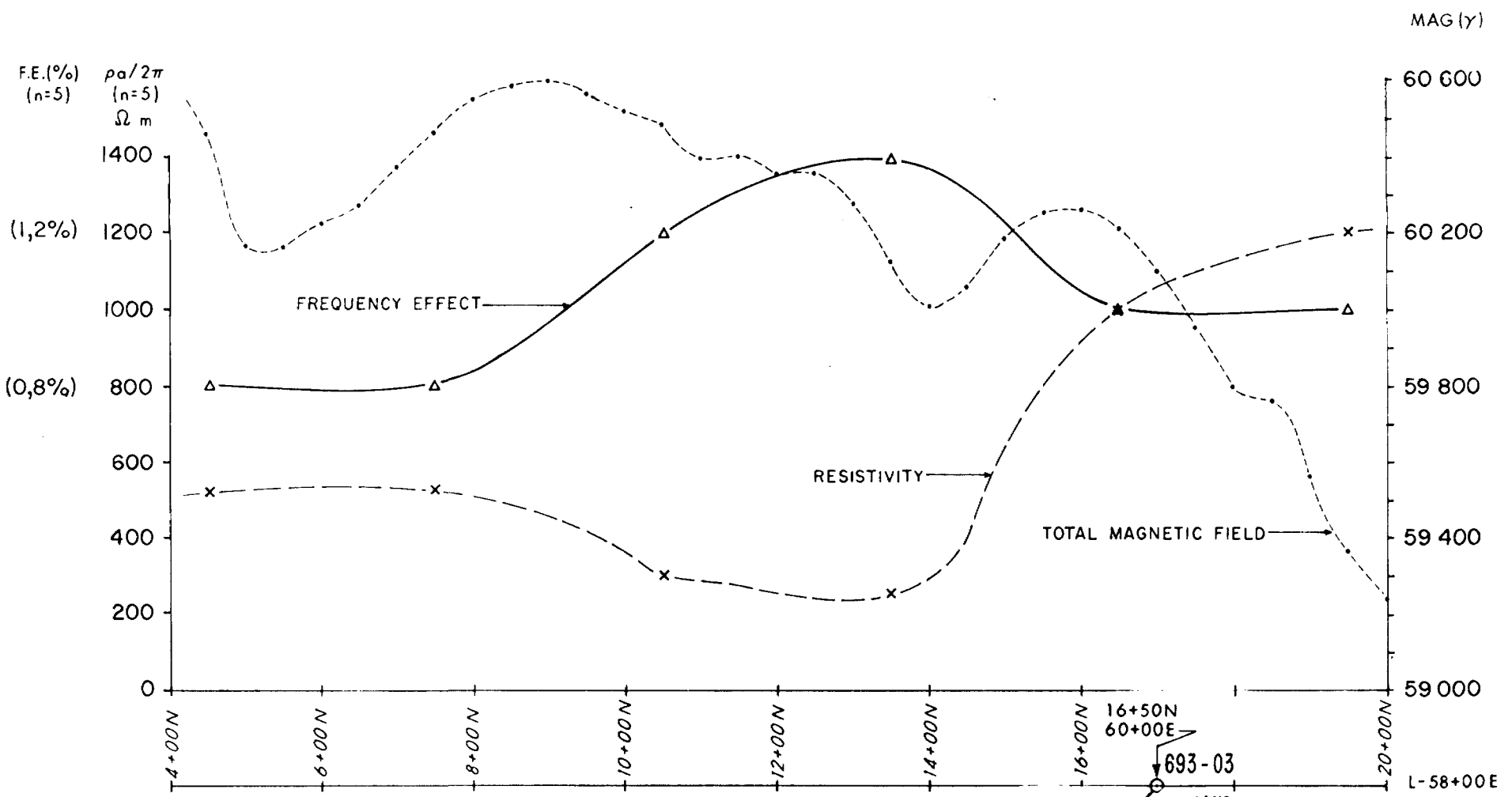
NOTE: Collar really located on L-48+00E, at 7+50N, drilled at -45° in AZ 210° direction

NOTE: Hole trace pivoted to see it in true length.

FALCONBRIDGE LTD / LTÉE.			
PN-693 GUIBORD PROPERTY			
VERTICAL SECTION			
DDH 693-02			
Canton:	Guibord	Claim:	15475
Journal par:	J.A. Carrier	Date	AUG.84
Loggè par:		N.T.S.:	42 A/8
Dessiné par:	Géodès	Date	FEB.85
Drawn by:		Plan no.:	
Révisé par:		Date	
Revised by:			
Scale	1" = 200'	Echelle	400'
	0 200'		



AZIMUTH-180°



magnetic, V7 well φ, Δ, some x

non-magnetic

V7φ, some x
MS
762'
very little sulfides

- VOLCANIC ROCKS**
- V4 Dacite
 - V5 Intermediate or mafic volcanic rocks
 - V6 Andesite
 - V7 Basalt
 - V9 Tuff
 - V13 Ultramafic volcanic rocks
- SEDIMENTARY ROCKS**
- S3 Greywacke
 - MS Metasediments
- INTRUSIVE ROCKS**
- 3G Gabbro
- SUFFIX FOR STRUCTURE & TEXTURE**
- Δ Breccia
 - ▭ Porphyry
 - ‡ Sheared
- MINERAL SUFFIX**
- f Feldspar
 - i Talc
 - c chlorite
- COMPOSITION SUFFIX**
- a Felsic
 - φ Chloritized
 - x Serpentinized
 - σ Silicified
 - η Carbonatized

No histogram - Au in p.p.b. was made

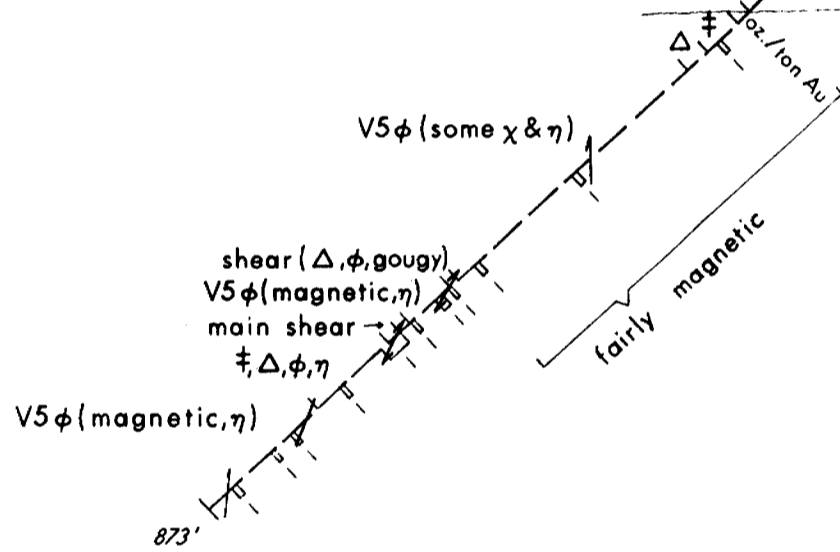
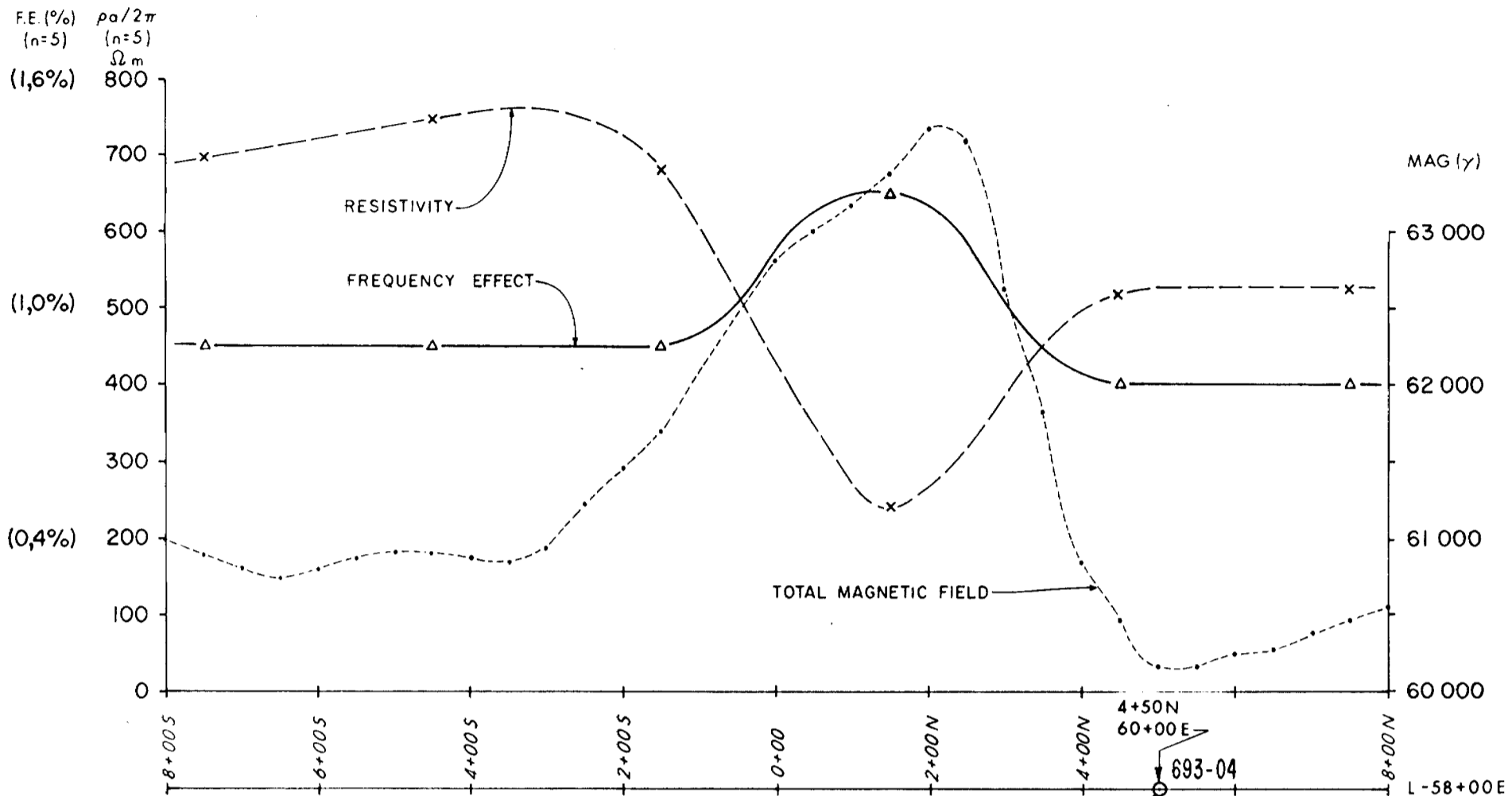
NOTE: Collar really located on L-60+00E, at 16+50N; drilled at -45° in AZ-210° direction

NOTE: Hole trace pivoted to see it in true length.

FALCONBRIDGE LTD / LTÉE.			
PN-693 GUIBORD PROPERTY			
VERTICAL SECTION			
DDH 693-03			
Canton: Guibord	Claim: 14651		
Journal par: J.A. Carrier	Date: SEP. 84	N.T.S.: 42 A/8	
Dessiné par: Gèodès	Date: FEB. 85	Plan no:	
Revisé par:	Date:		
Scale	1" = 200'	Echelle	
0	200'	400'	



AZIMUTH - 180°



- VOLCANIC ROCKS**
- V4 Dacite
 - V5 Intermediate or mafic volcanic rocks
 - V6 Andesite
 - V7 Basalt
 - V9 Tuff
 - V13 Ultramafic volcanic rocks
- SEDIMENTARY ROCKS**
- S3 Greywacke
 - MS Metasediments
- INTRUSIVE ROCKS**
- 3G Gabbro
- SUFFIX FOR STRUCTURE & TEXTURE**
- △ Breccia
 - ▭ Porphyry
 - ‡ Sheared
- MINERAL SUFFIX**
- f Feldspar
 - i Talc
 - c chlorite
- COMPOSITION SUFFIX**
- a Felsic
 - φ Chloritized
 - χ Serpentinized
 - σ Silicified
 - η Carbonatized

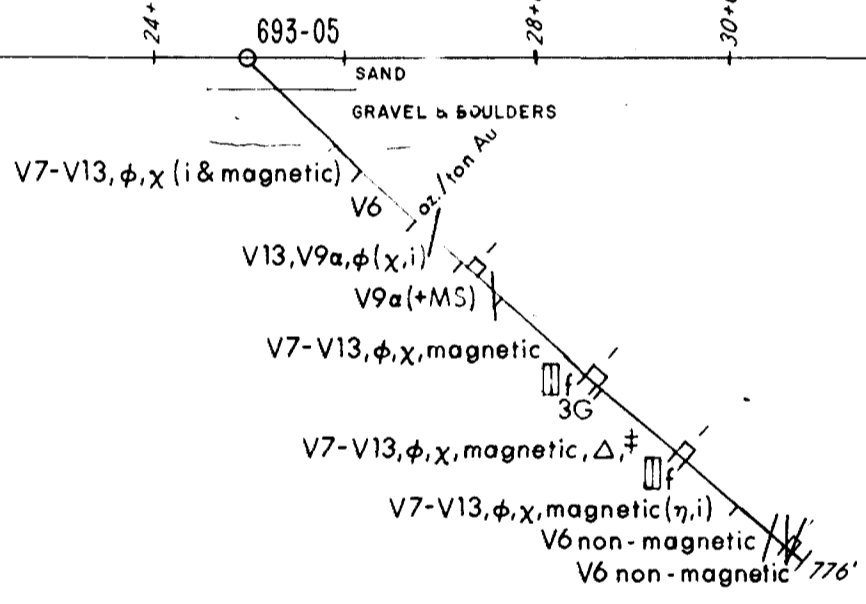
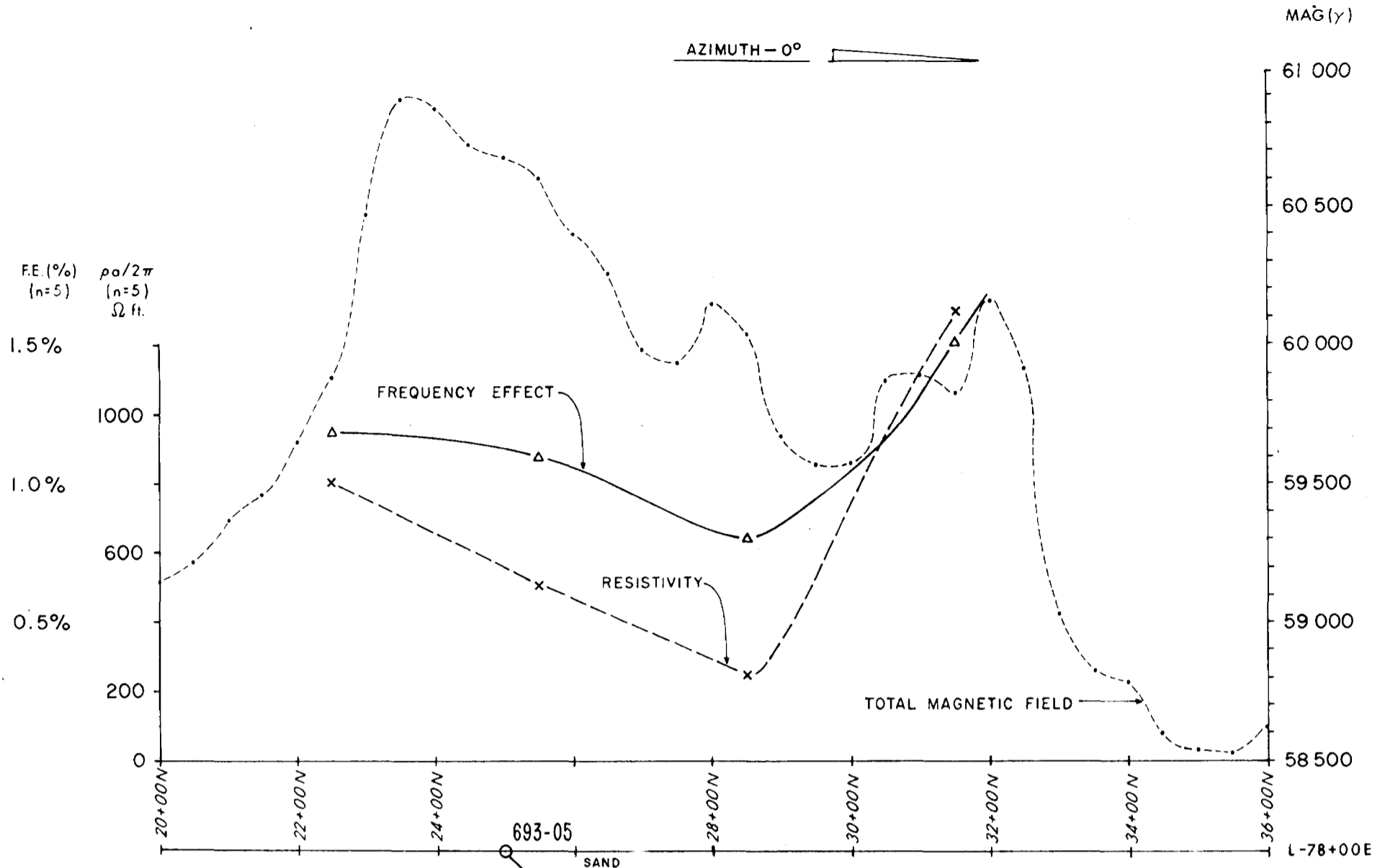
No histogram - Au in p.p.b. was made.

NOTE: Collar really located on L-60+00E, at 4+50N; drilled at -45° in AZ - 210° direction

NOTE: Hole trace pivoted to see it in true length.

FALCONBRIDGE LTD / LTÉE.			
PN-693 GUIBORD PROPERTY			
VERTICAL SECTION			
DDH 693-04			
Canton: Guibord		Claim: 15476	
Journal par: J.A. Carrier		Date: SEP.84	N.T.S.: 42 A/8
Dessiné par: Gëodës		Date: FEB 85	Plan no:
Révisé par:		Date:	
Scale	1" = 200'	Echelle	
	200'	400'	

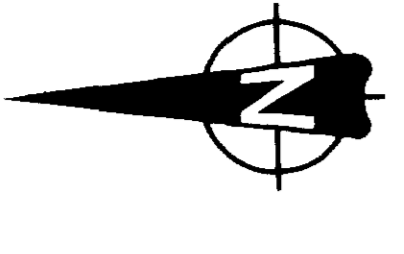




- VOLCANIC ROCKS**
- V4 Dacite
 - V5 Intermediate or mafic volcanic rocks
 - V6 Andesite
 - V7 Basalt
 - V9 Tuff
 - V13 Ultramafic volcanic rocks
- SEDIMENTARY ROCKS**
- S3 Greywacke
 - MS Metasediments
- INTRUSIVE ROCKS**
- 3G Gabbro
- SUFFIX FOR STRUCTURE & TEXTURE**
- △ Breccia
 - ▭ Porphyry
 - ‡ Sheared
- MINERAL SUFFIX**
- f Feldspar
 - i Talc
 - c chlorite
- COMPOSITION SUFFIX**
- α Felsic
 - φ Chloritized
 - χ Serpentinized
 - σ Silicified
 - η Carbonatized

No histogram-Au in p.p.b. was made.

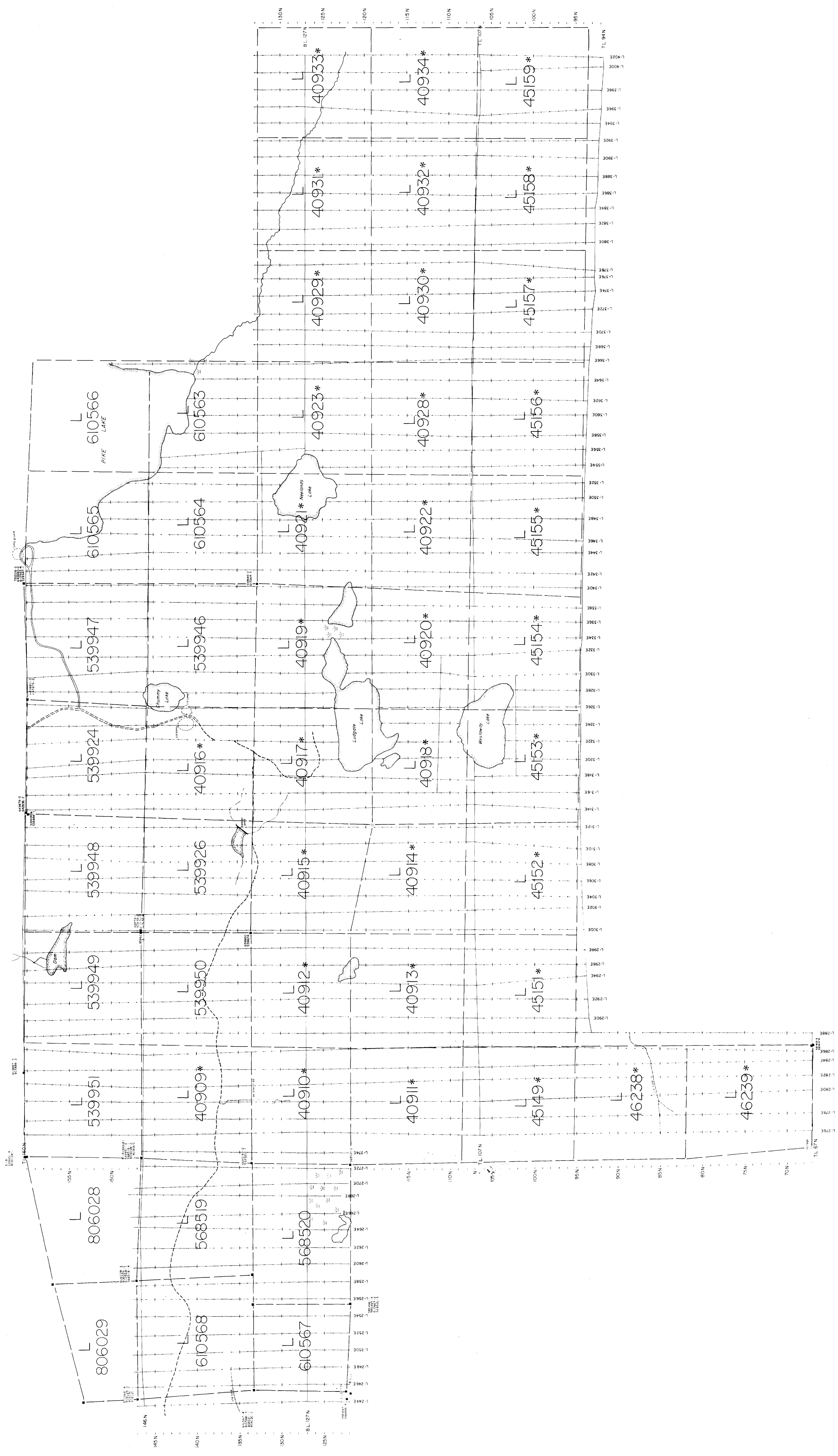
FALCONBRIDGE LTD / LTÉE.			
PN-693 GUIBORD PROPERTY			
VERTICAL SECTION			
DDH 693-05			
Canton: Guibord		Claim: 15484	
Township:			
Journal par: J.A. Carrier	Date: SEP. 84	N.T.S.: 42 A/8	
Logged by:	Date:	Plan no:	
Dessiné par: Géodès	Date: FEB. 85		
Révisé par:		Date:	
Revised by:			
Scale: 0	1" = 200'	Echelle: 400'	
	200'		

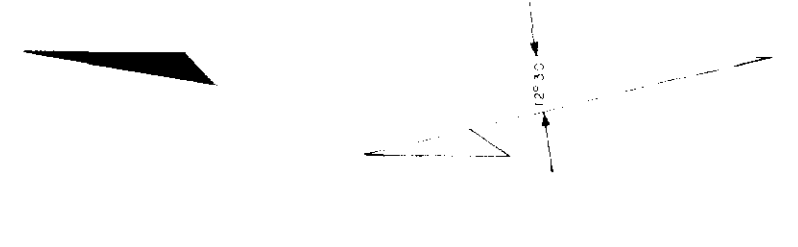


* Retained claims

63, 414 & 7
FALCONBRIDGE LIMITED
GARRISON CREEK PROJECT
"MICHAUD TWP:PN-620"
PROPERTY MAP

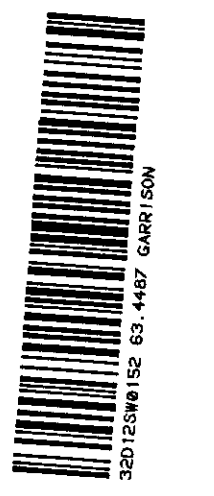
Created	Date	Revised	Date
Created	Date	Revised	Date
Drawn	Date	Checked	Date
Scale	1:50,000	North	N 0° 0' 0" E

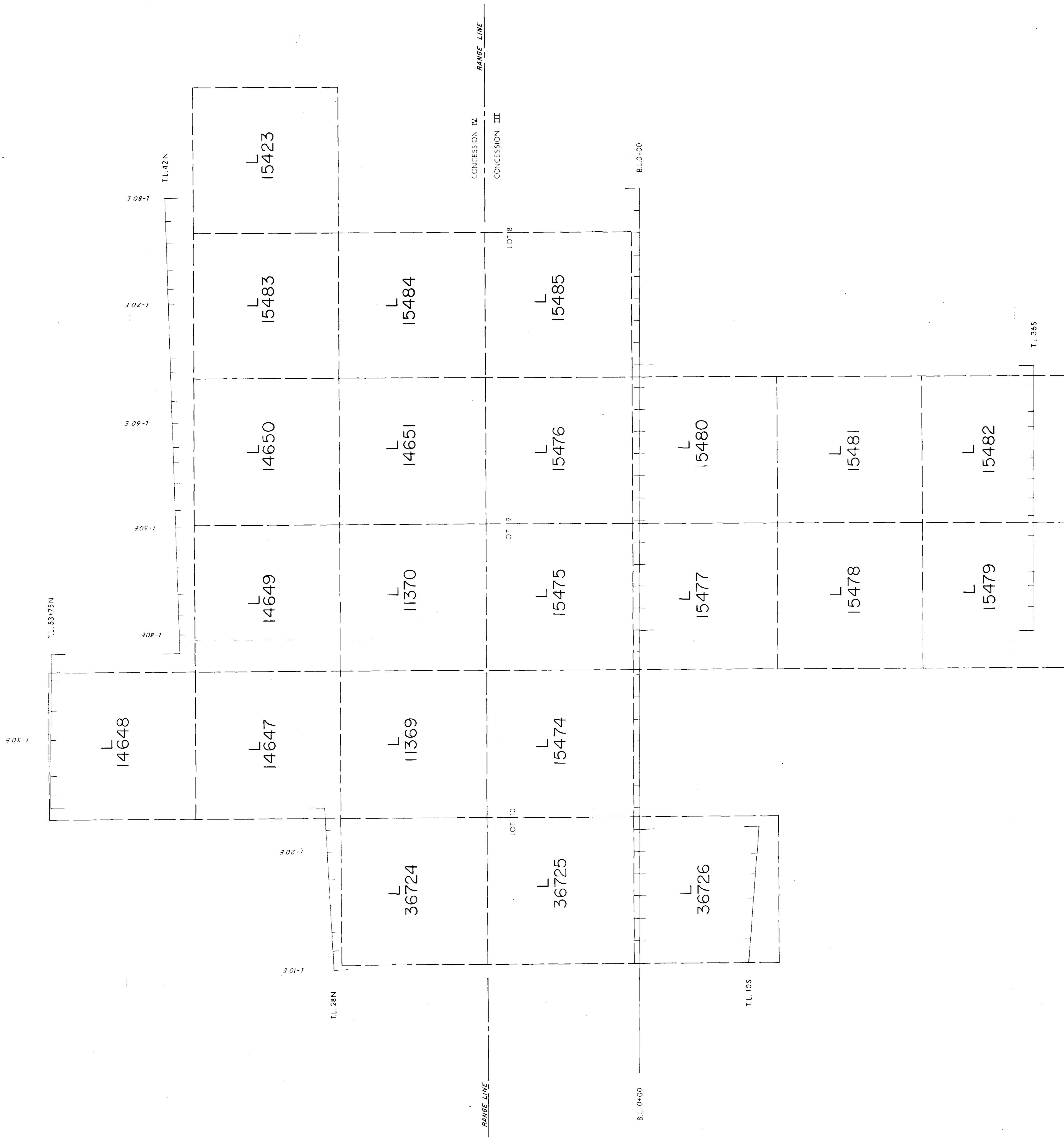
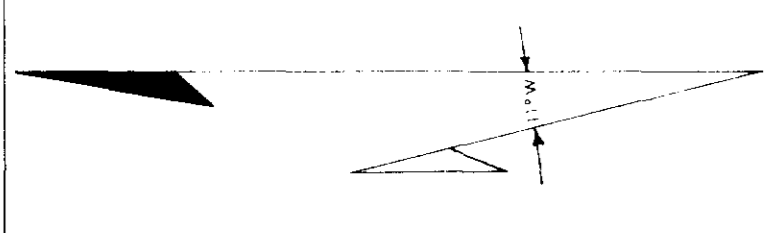




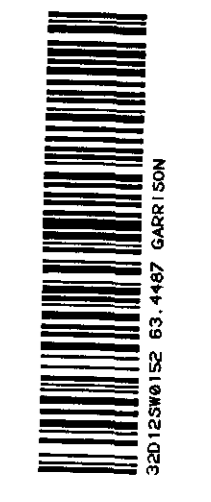
634487

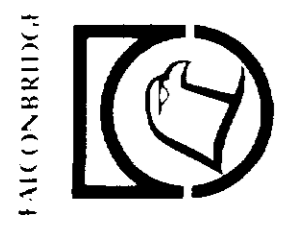
FOR: FALCONBRIDGE LIMITED	
SURVEY: PROPERTY MAP	
BY:	
RECORD NO:	GARRISON CREEK PROJECT
DATE: FEB 15	"GARRISON TWP"
DRAWN BY: GEMMA	QUINCY
APPROVED BY:	DATE: 2/15/20
SCALE: 1" = 400'	LAT: 49° 30' 30" LONG: 107° 00' 30"
PLAN No. 64-18	DATE: 2/20/20
N.T.S. 3/20/20	



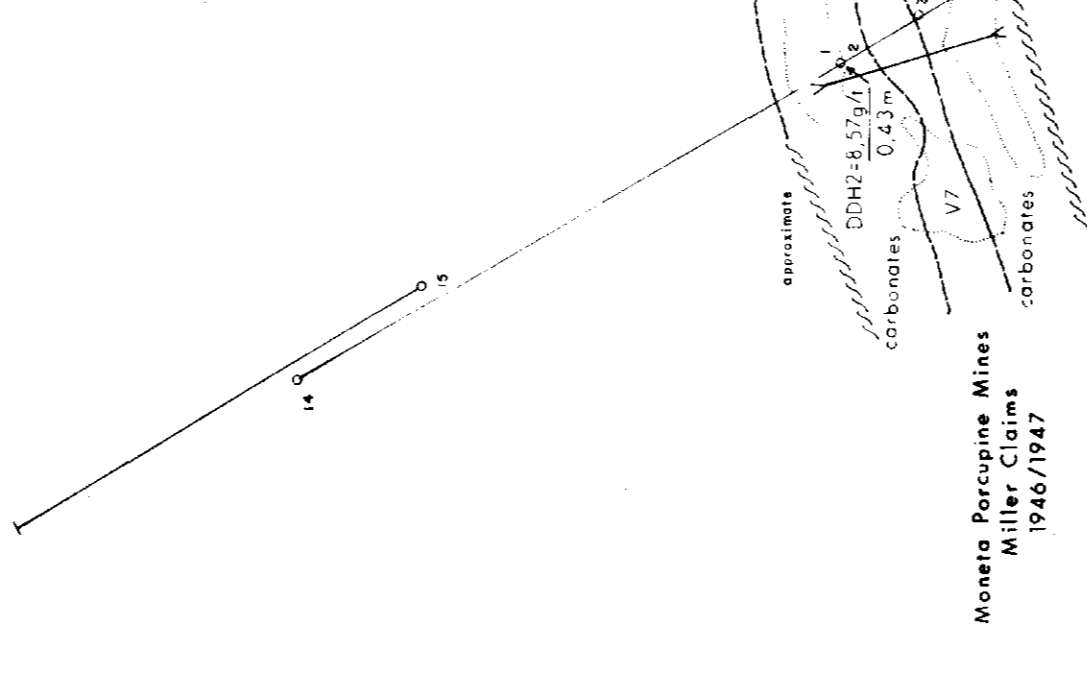
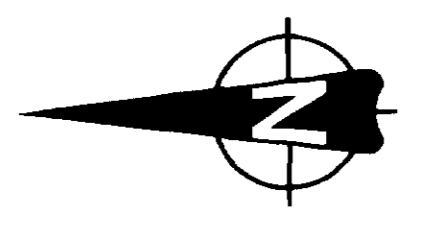


FOR: FALCONBRIDGE LIMITED	
SURVEY: PROPERTY MAP	674487
BY:	
EXECUTED BY: PN-693	PROJECT: "GARRISON CREEK"
DRAWN BY: GIBBORD TWP	CONTRACT: 00000
APPROVED BY:	LAT: 48° 39' LONG: 80° 54'
PLAN No: N.T.S.: 42.1/8	SCALE: 1" = 400'





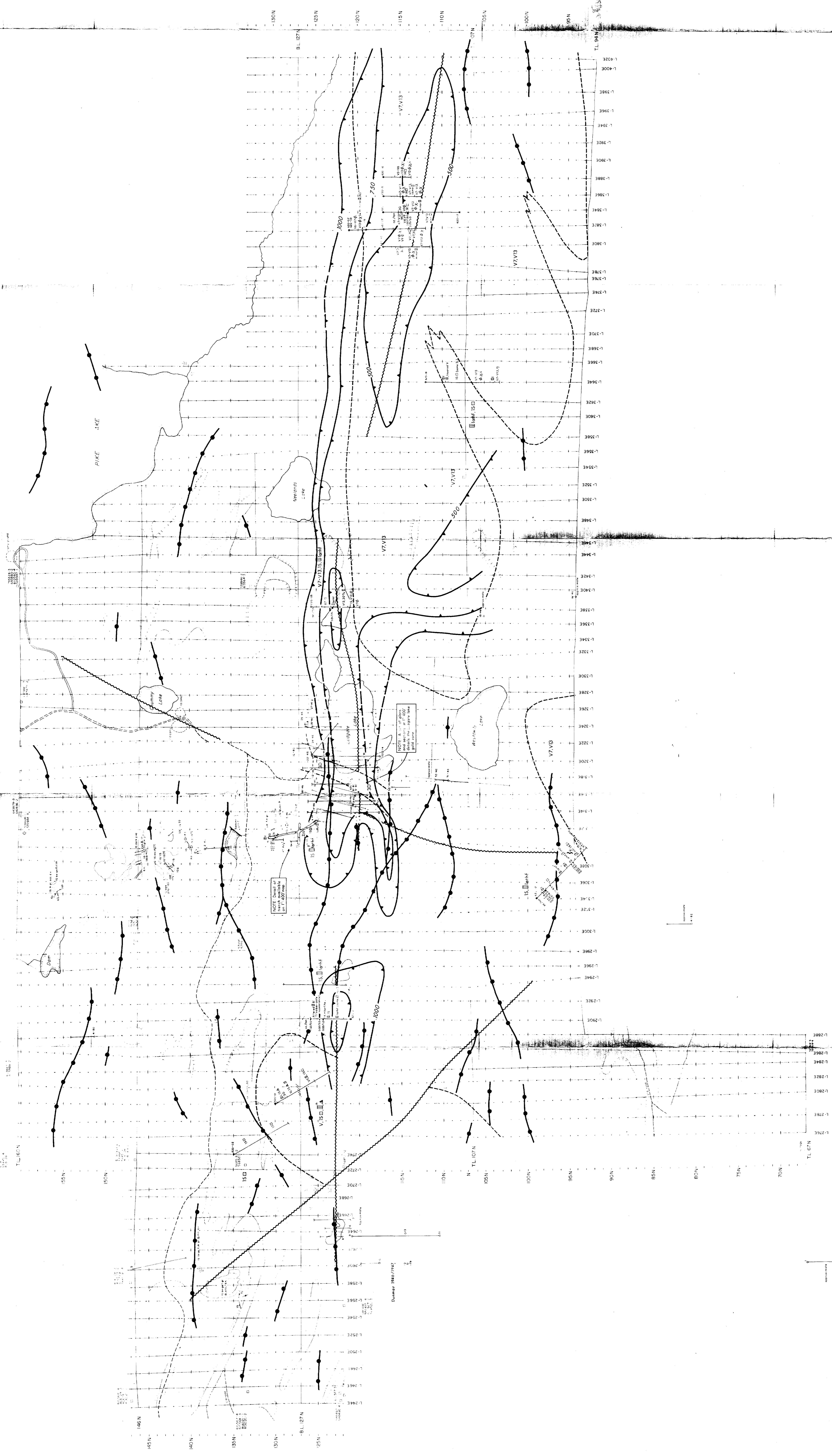
FALCONBRIDGE LIMITED
Geological Services
1986/1987



- | | |
|------|-----------------------------|
| V | Unsubdivided volcanic rocks |
| V4 | Dacite |
| V7 | Basalt, pillow lava |
| V9 | Tuff |
| V13 | Ultramafic rocks |
| V15 | Granite |
| V16 | Porphyry |
| V17 | Porphyry |
| V18 | Porphyry |
| V19 | Porphyry |
| V20 | Porphyry |
| V21 | Porphyry |
| V22 | Porphyry |
| V23 | Porphyry |
| V24 | Porphyry |
| V25 | Porphyry |
| V26 | Porphyry |
| V27 | Porphyry |
| V28 | Porphyry |
| V29 | Porphyry |
| V30 | Porphyry |
| V31 | Porphyry |
| V32 | Porphyry |
| V33 | Porphyry |
| V34 | Porphyry |
| V35 | Porphyry |
| V36 | Porphyry |
| V37 | Porphyry |
| V38 | Porphyry |
| V39 | Porphyry |
| V40 | Porphyry |
| V41 | Porphyry |
| V42 | Porphyry |
| V43 | Porphyry |
| V44 | Porphyry |
| V45 | Porphyry |
| V46 | Porphyry |
| V47 | Porphyry |
| V48 | Porphyry |
| V49 | Porphyry |
| V50 | Porphyry |
| V51 | Porphyry |
| V52 | Porphyry |
| V53 | Porphyry |
| V54 | Porphyry |
| V55 | Porphyry |
| V56 | Porphyry |
| V57 | Porphyry |
| V58 | Porphyry |
| V59 | Porphyry |
| V60 | Porphyry |
| V61 | Porphyry |
| V62 | Porphyry |
| V63 | Porphyry |
| V64 | Porphyry |
| V65 | Porphyry |
| V66 | Porphyry |
| V67 | Porphyry |
| V68 | Porphyry |
| V69 | Porphyry |
| V70 | Porphyry |
| V71 | Porphyry |
| V72 | Porphyry |
| V73 | Porphyry |
| V74 | Porphyry |
| V75 | Porphyry |
| V76 | Porphyry |
| V77 | Porphyry |
| V78 | Porphyry |
| V79 | Porphyry |
| V80 | Porphyry |
| V81 | Porphyry |
| V82 | Porphyry |
| V83 | Porphyry |
| V84 | Porphyry |
| V85 | Porphyry |
| V86 | Porphyry |
| V87 | Porphyry |
| V88 | Porphyry |
| V89 | Porphyry |
| V90 | Porphyry |
| V91 | Porphyry |
| V92 | Porphyry |
| V93 | Porphyry |
| V94 | Porphyry |
| V95 | Porphyry |
| V96 | Porphyry |
| V97 | Porphyry |
| V98 | Porphyry |
| V99 | Porphyry |
| V100 | Porphyry |

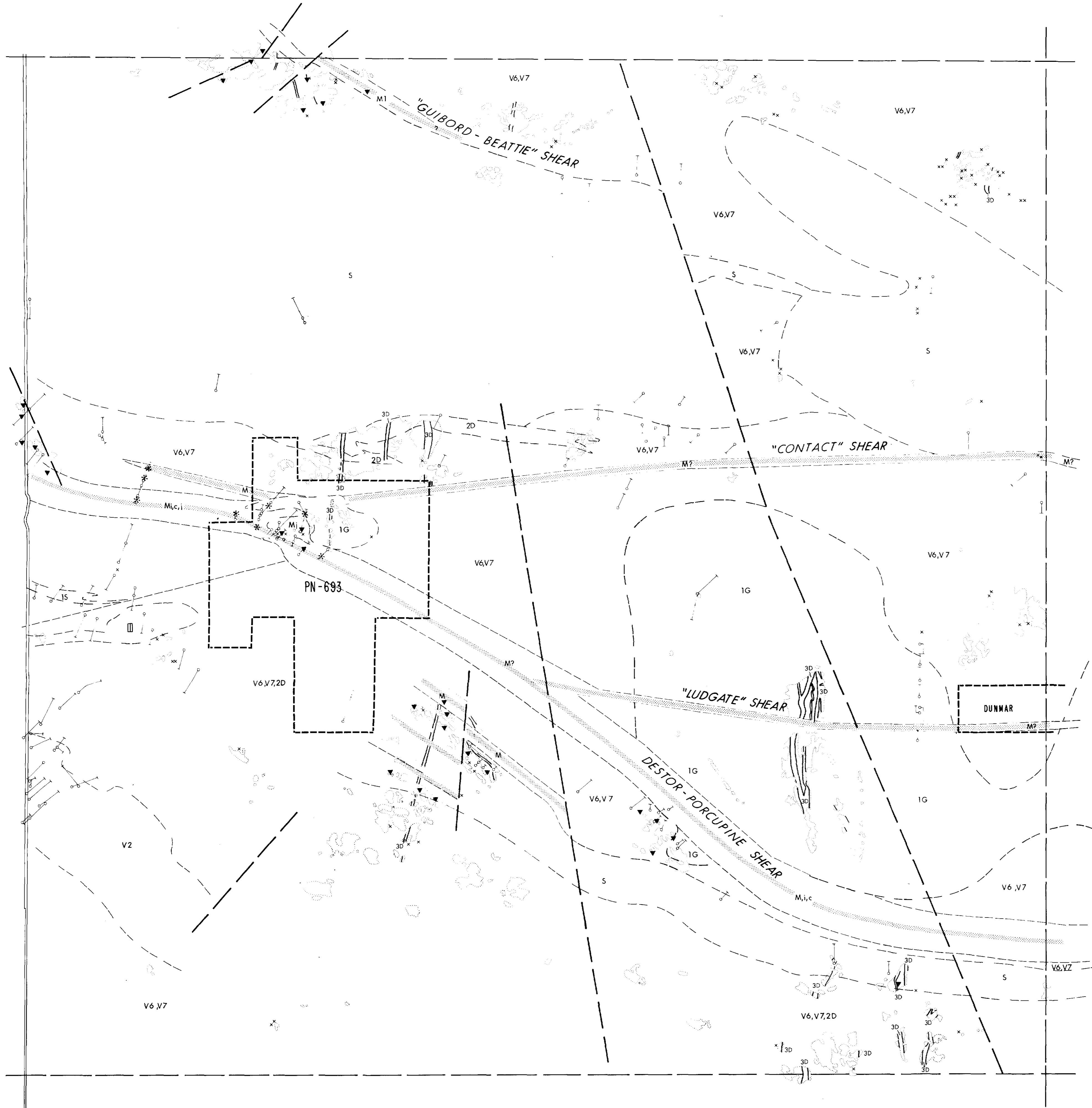
FALCONBRIDGE LIMITED
 GARRISON CREEK PROJECT
 MICHAUD TWP BLOCK
 COMPILATION MAP
 63-444-67

Scale: 1:50,000
 Date: 1986/1987
 Author: Falconbridge Limited
 Project: Garrison Creek Project
 Block: Michaud Twp Block
 Map: 63-444-67



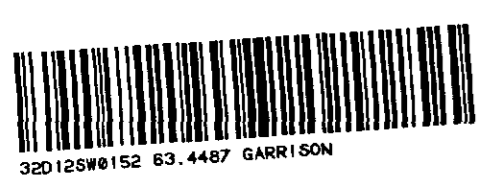
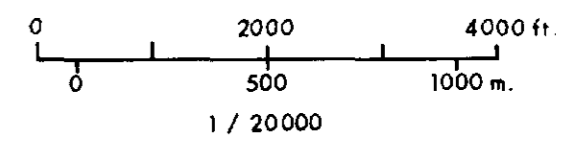
Weight: 100gms (3.5 oz)





- | | |
|---------|-------------------------------------|
| 3D | Diabase |
| 1S | Syenite |
| 1G | Granite |
| 2D,3G | Diorite, Gabbro |
| 4 | Peridotite |
| V2 | Rhyolite |
| V5 | Mafic and ultramafic lavas |
| V8 | Pyroclastic rocks |
| S | Sediments |
| M (i,c) | Schists (talc, chlorite, carbonate) |
- ALTERATIONS
- | | |
|--------|---|
| ▼ | Carbonate |
| * | Talc-Chlorite |
| — | Fault |
| ▨ | Shear zone |
| - - - | Assumed contact |
| PN-693 | Claim block outline with project number |

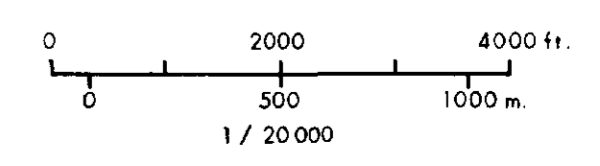
63.4467
 GUIBORD TOWNSHIP
 FALCONBRIDGE LTD/LTÉE
 PN-604
 GEOLOGICAL DATA
 INTERPRETATION
 M. Bérubé, July 1984

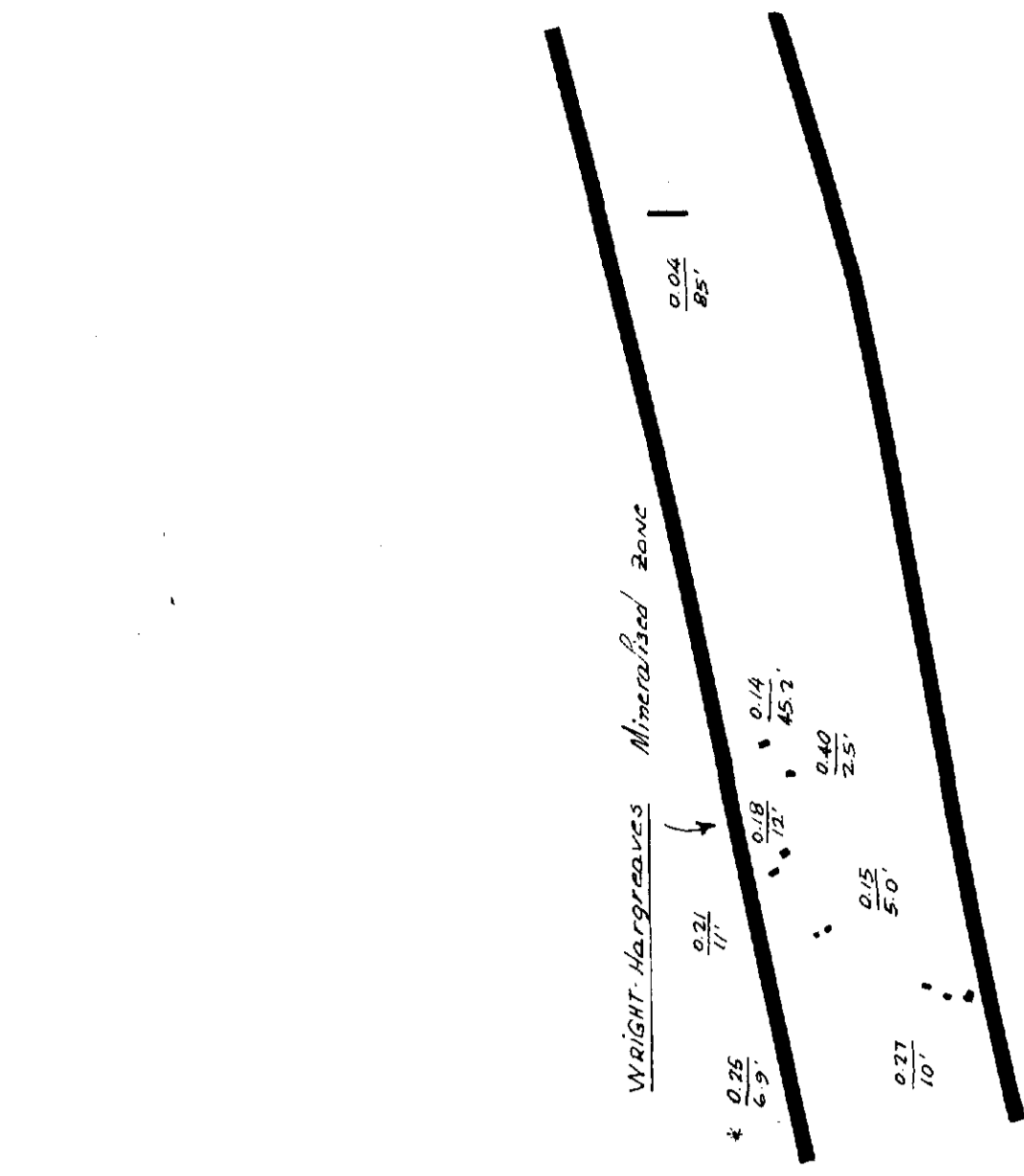




- | | |
|-----------|-------------------------------------|
| 3D | Diabase |
| 15 | Syenite |
| 1G | Granite |
| 2D,3G | Diorite, Gabbro |
| 4 | Peridotite |
| V2 | Rhyolite |
| V5 | Mafic and ultramafic lavas |
| V8 | Pyroclastic rocks |
| S | Sediments |
| M (i,c,l) | Schists (talc, chlorite, carbonate) |
-
- ALTERATIONS
- | | |
|---------------|---|
| ▼ | Carbonate |
| * | Talc-Chlorite |
| — | Fault |
| ▬▬▬▬▬▬ | Shear zone |
| - - - - - | Assumed contact |
| ▬▬▬▬▬▬ PN-605 | Claim block outline with project number |

63.4467
GARRISON TOWNSHIP
 FALCONBRIDGE LTD/LTÉE
 PN-604
 GEOLOGICAL DATA
 INTERPRETATION
 M. Bérubé, July 1984





- Legend**
- 12 Sandstone (Mudstone)
 - 14 Intermediate Volcanic (Diorite)
 - 17 White Volcanic (Basalt)
 - 18 Tan to grey (Andesite)
 - 19 Intermediate Volcanic (Andesite)
 - 20 Basalt
 - 21 Schist (Amphibolite)
 - 22 Sandstone (Granite)
 - 23 Iron formation (Magnetite)
 - 24 Basaltic Andesite
 - 25 Basaltic Andesite
 - 26 Basaltic Andesite
 - 27 Basaltic Andesite
 - 28 Basaltic Andesite
 - 29 Basaltic Andesite
 - 30 Basaltic Andesite
 - 31 Basaltic Andesite
 - 32 Basaltic Andesite
 - 33 Basaltic Andesite
 - 34 Basaltic Andesite
 - 35 Basaltic Andesite
 - 36 Basaltic Andesite
 - 37 Basaltic Andesite
 - 38 Basaltic Andesite
 - 39 Basaltic Andesite
 - 40 Basaltic Andesite

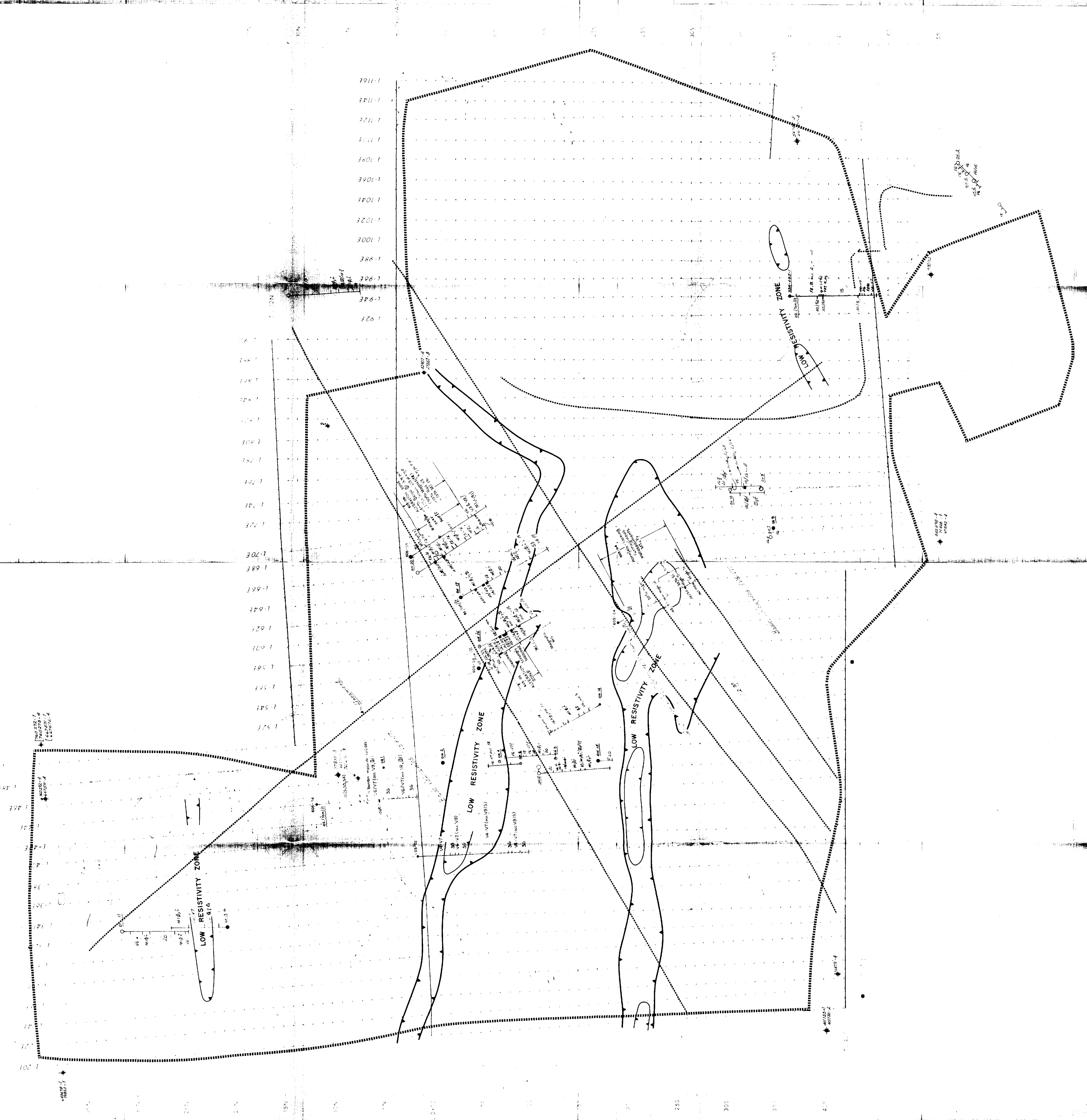
Geology and Compilation

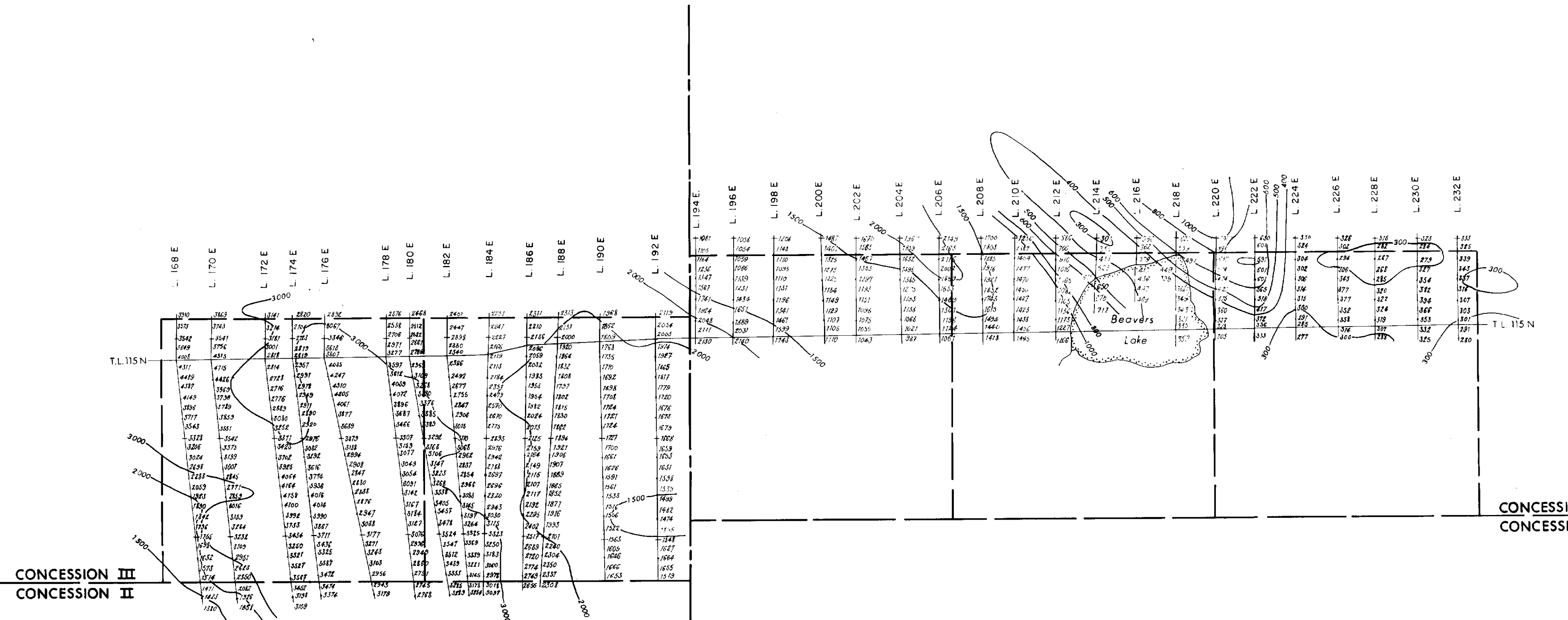
BY: A. DUBNER
J.A. COOPER
GARRISON TWP.
PH-995
FEB 85

SCALE: 1" = 400'

FALCONBRIDGE LIMITED

GARRISON CREEK PROJECT





CONCESSION III
CONCESSION II

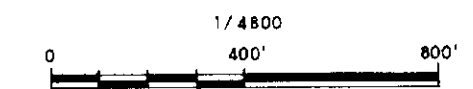
CONCESSION III
CONCESSION II

GUIBORD TWP.
MICHAUD TWP.

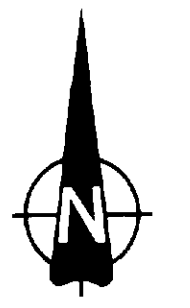
63,4467

FALCONBRIDGE LTD
DUNMAR PROPERTY
MICHAUD & GUIBORD TWPS.

MAGNETIC CONTOURS



GUIBORD TWP.
MICHAUD TWP.



L
44247

L
44246

L
44245

L
44244

L
44243

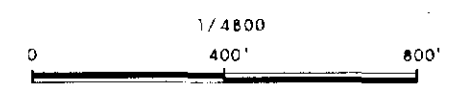
CONCESSION III
CONCESSION II

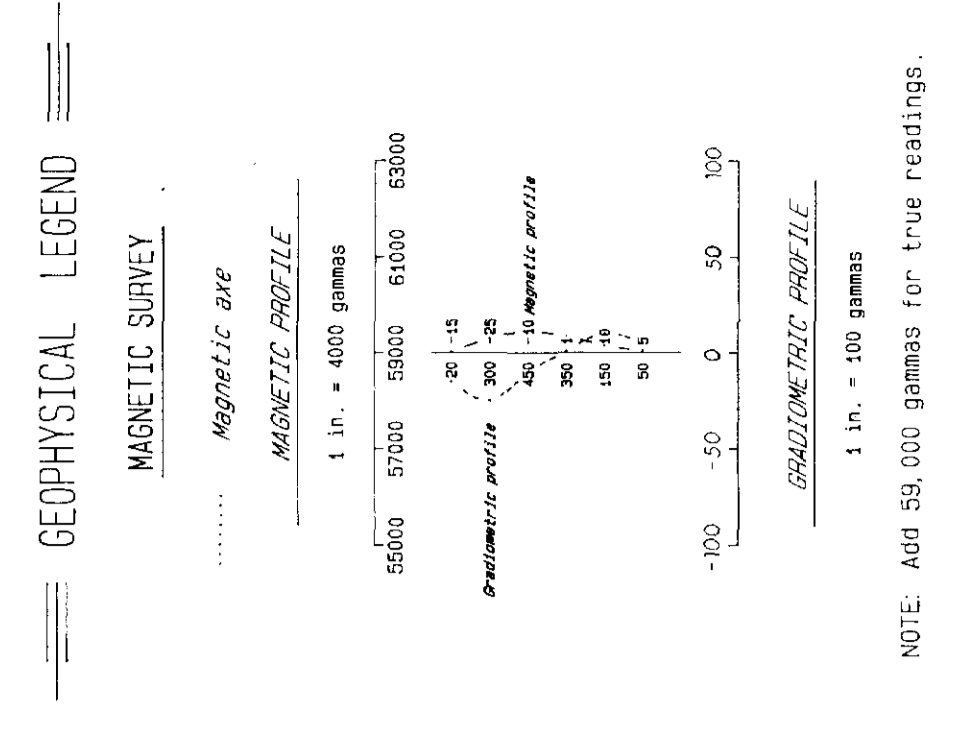
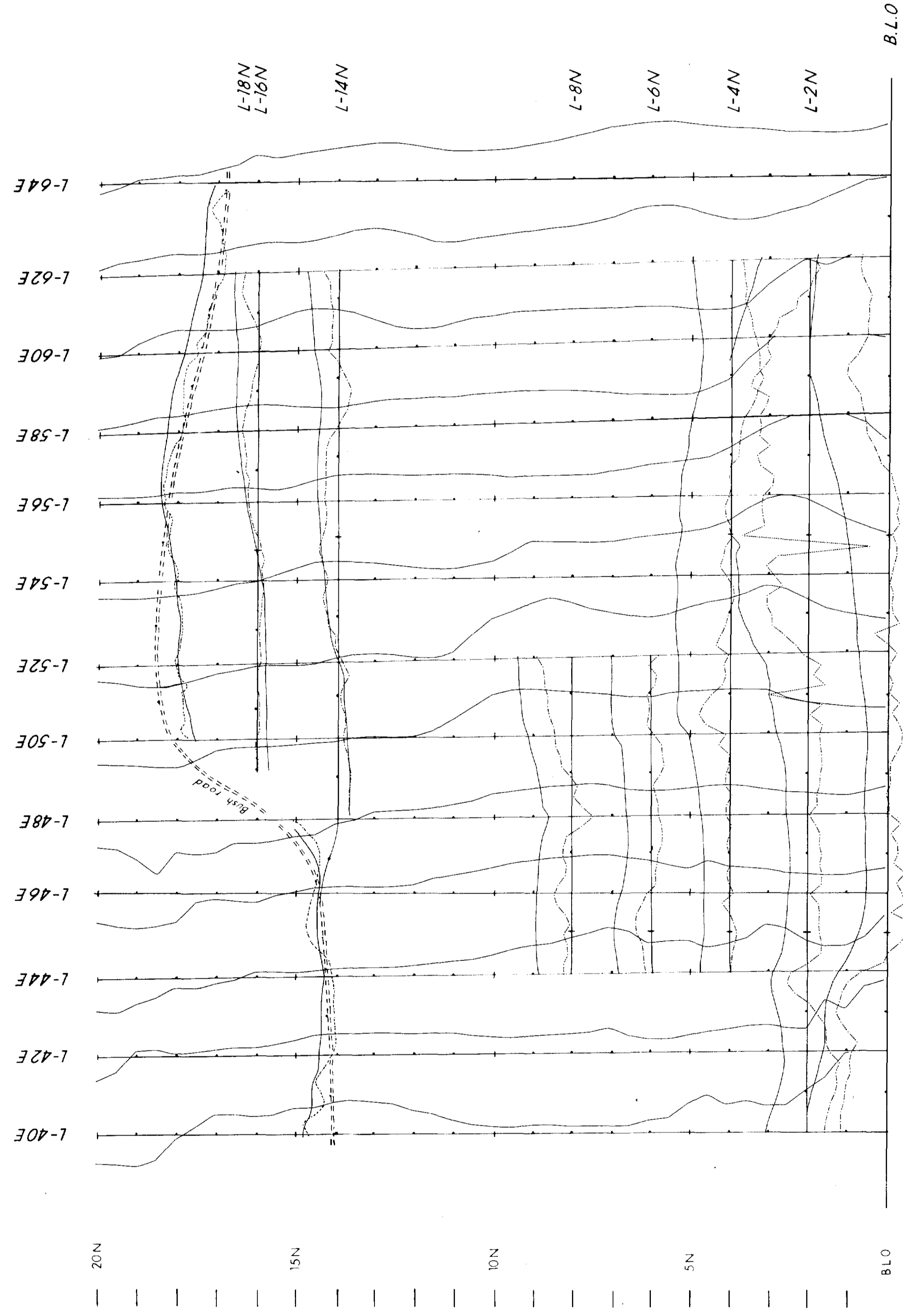
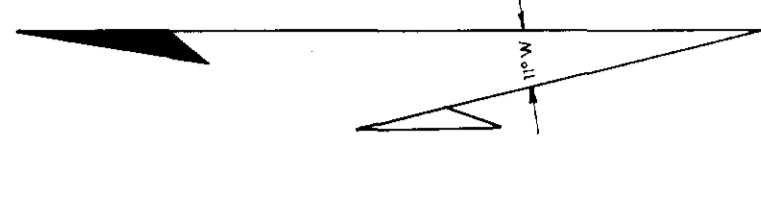
CONCESSION III
CONCESSION II

63,44197

FALCONBRIDGE LTD
DUNMAR PROPERTY
MICHAUD & GUIBORD TWPS.

PROPERTY MAP





INDEX MAP

FOR: FALCONBRIDGE LIMITED
SURVEY: MAGNETIC & GRADIOMETRIC PROFILES
Inst. 165-2 Magnetic Gradiometer - Geometrics G-816 Proton Magnetometer

BY: GEOLA LITE 8341487

PROJECT: PN-693
GUIBORD TWP
RANGES III & IV
Ontario

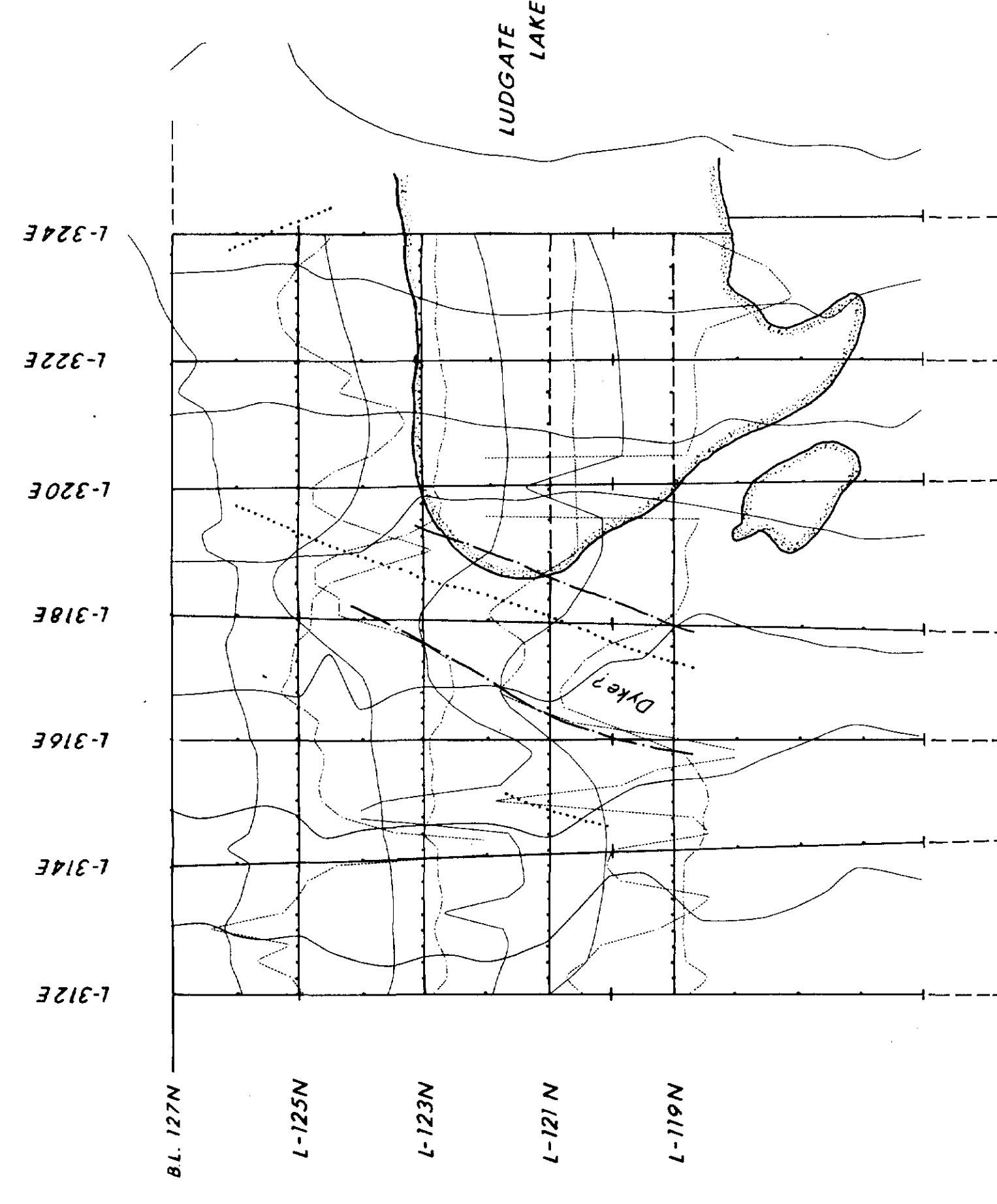
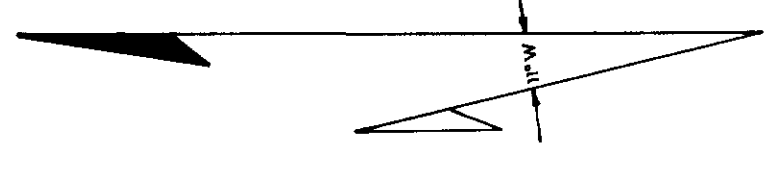
EXECUTED BY: M. Dymov August 1984
INTERPRETED BY: C. Lavoie Ph.D. August 1984
DRAWN BY: M. Hovius Ph.D. August 1984

APPROVED BY:

PLAN NO 84-442-02 N.T.S.: 42/8

LAT: 46 29' LONG: 80 14'
SCALE: 1" = 200'
0' 100' 200' 300' 400'





GEOPHYSICAL LEGEND

MAGNETIC SURVEY

Magnetic dip

Magnetic profile

Gradiometric profile

1 in. = 1000 feet

1 in. = 20 gamma

NOTE: Add 56,000 gamma for true readings.

LAT: _____

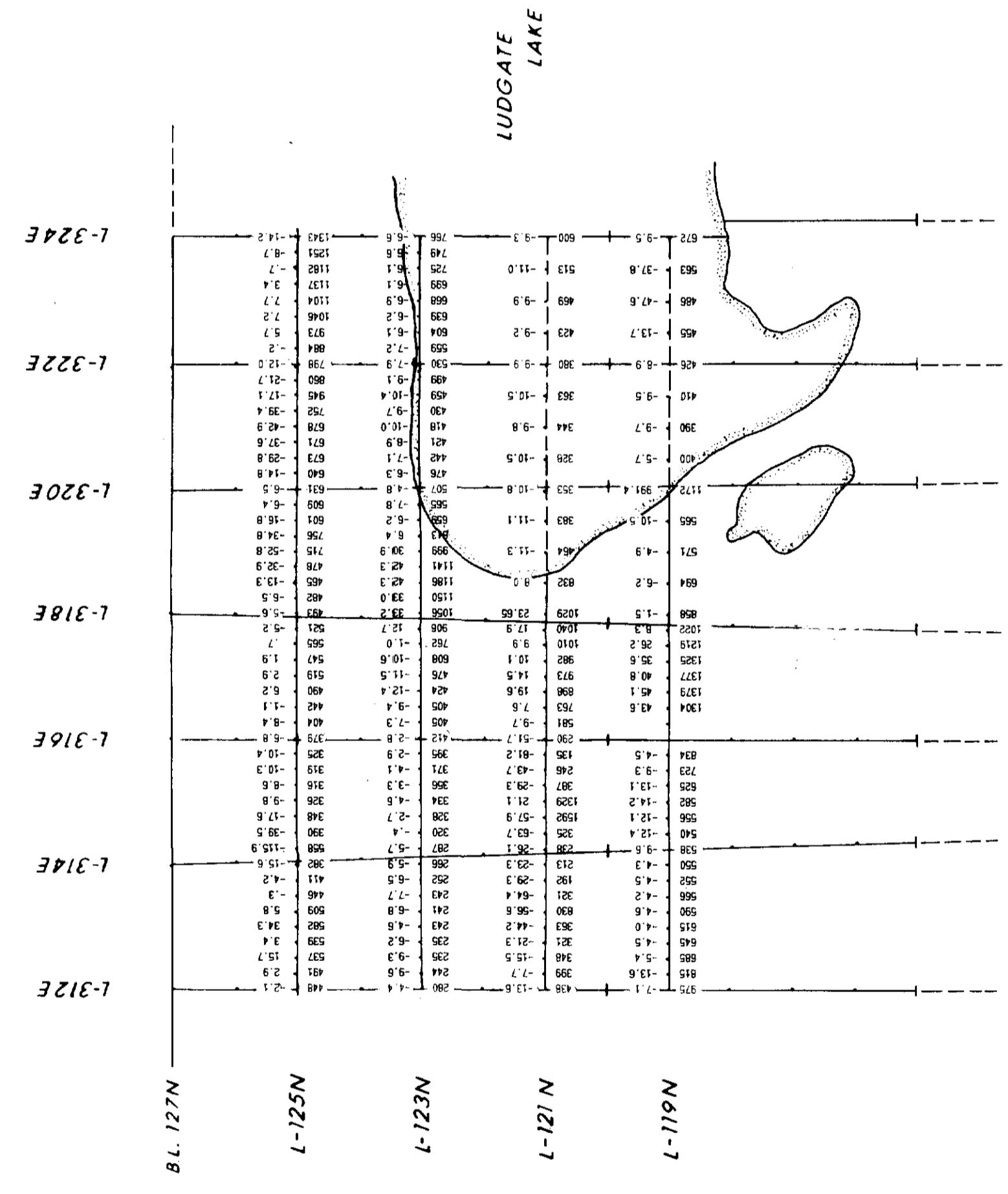
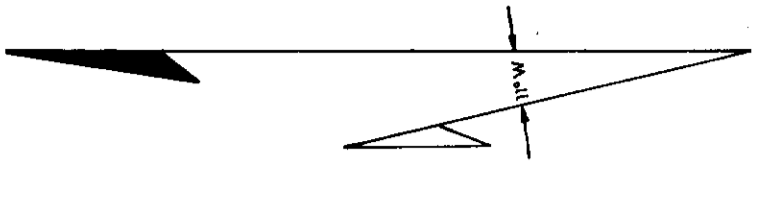
LONG: _____

SCALE: 1" = 200'

PLAN No: 84-998-02 N.T.S.: 0/0

C 2 44 87

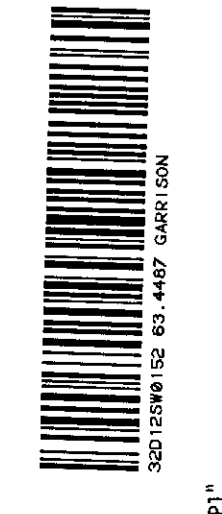
FOR:	FALCONBRIDGE LIMITED
SURVEY:	MAGNETIC & GRADIOMETRIC PROFILES
BY:	GEOLA LTÉE
EXECUTED BY:	K. Proulx, August 1987
INTERPRETED BY:	C. Levesque Ph.D., August 1987
DRAWN BY:	J. Proulx Tech., August 1987
APPROVED BY:	
REVISIONS BY:	
PLAN No: 84-998-02	N.T.S.: 0/0
SCALE:	1" = 200'
	1" = 300'
	1" = 400'
	1" = 500'
	1" = 600'
	1" = 700'
	1" = 800'
	1" = 900'
	1" = 1000'
	1" = 1100'
	1" = 1200'
	1" = 1300'
	1" = 1400'
	1" = 1500'
	1" = 1600'
	1" = 1700'
	1" = 1800'
	1" = 1900'
	1" = 2000'
	1" = 2100'
	1" = 2200'
	1" = 2300'
	1" = 2400'
	1" = 2500'
	1" = 2600'
	1" = 2700'
	1" = 2800'
	1" = 2900'
	1" = 3000'
	1" = 3100'
	1" = 3200'
	1" = 3300'
	1" = 3400'
	1" = 3500'
	1" = 3600'
	1" = 3700'
	1" = 3800'
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	1" = 4000'
	1" = 4100'
	1" = 4200'
	1" = 4300'
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	1" = 7500'
	1" = 7600'
	1" = 7700'
	1" = 7800'
	1" = 7900'
	1" = 8000'
	1" = 8100'
	1" = 8200'
	1" = 8300'
	1" = 8400'
	1" = 8500'
	1" = 8600'
	1" = 8700'
	1" = 8800'
	1" = 8900'
	1" = 9000'
	1" = 9100'
	1" = 9200'
	1" = 9300'
	1" = 9400'
	1" = 9500'
	1" = 9600'
	1" = 9700'
	1" = 9800'
	1" = 9900'
	1" = 10000'

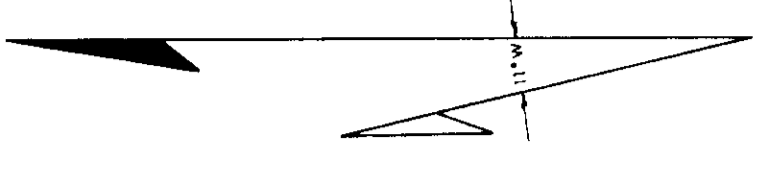


NOTE: Add 50,000 gamma for east magnetic readings

624467

FOR: FALCONBRIDGE LIMITED	
SURVEY: MAGNETIC & GRADIOMETRIC READINGS	
BY: GÉOLA LTÉE	
EXECUTED BY: M. Drouin August 1984	PN-620
INTERPRETED BY: J.C. Lenoir Ph.D. August 1984	GARRISON CREEK PROJECT
DRAWN BY: J. Proulx Tech. August 1984	Michaud Twp., Block
APPROVED BY:	LAT: _____ LONG: _____
REVISED BY:	SCALE: 1" = 500'
PLAN No: 84-199-01	N.T.S.: 42/R



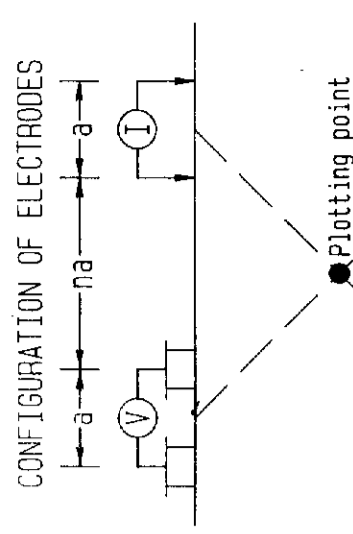


55N 50N 45N 40N 35N 30N 25N 20N 15N 10N 5N B.L.O-00 55 105 155 205 255 305 355 405

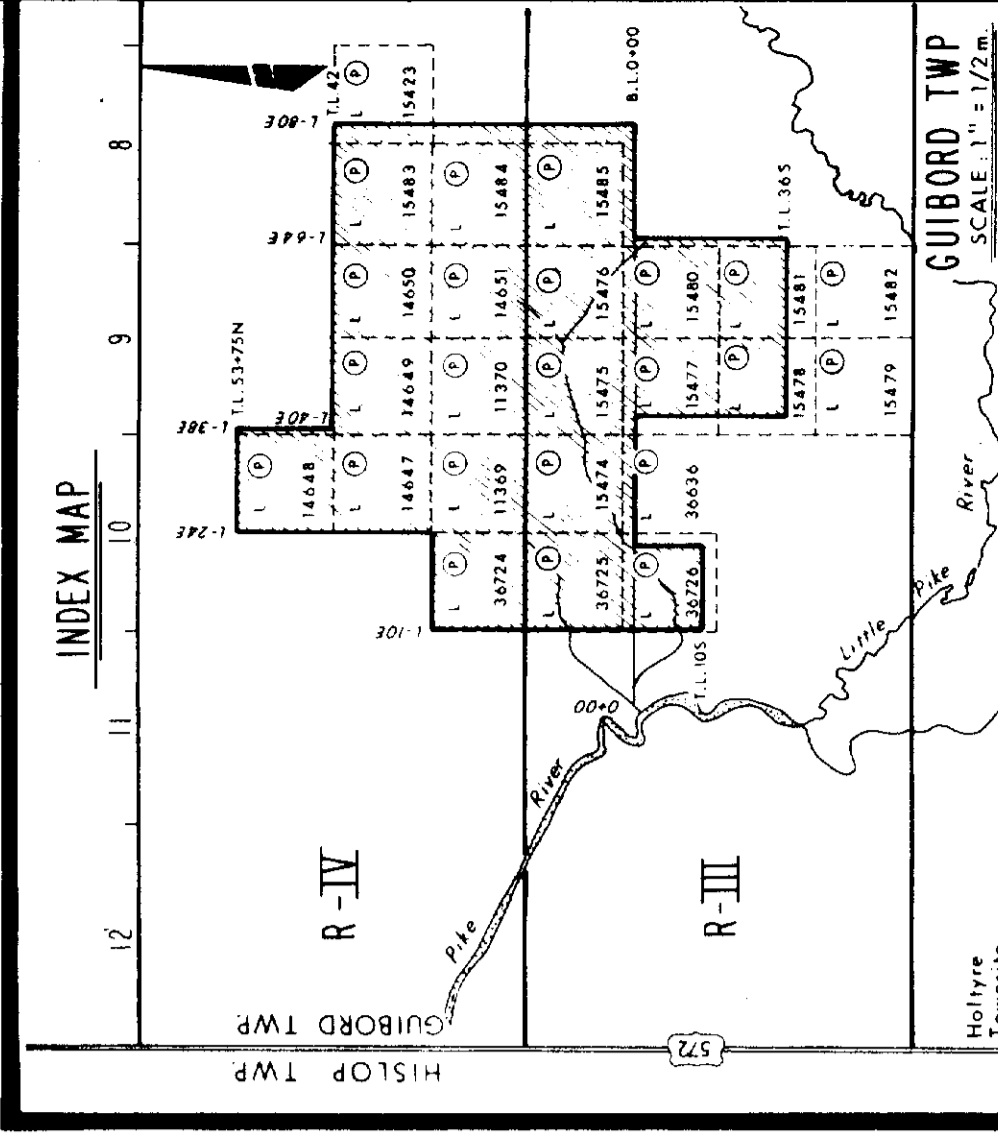
GEOPHYSICAL LEGEND

INDUCED POLARIZATION SURVEY

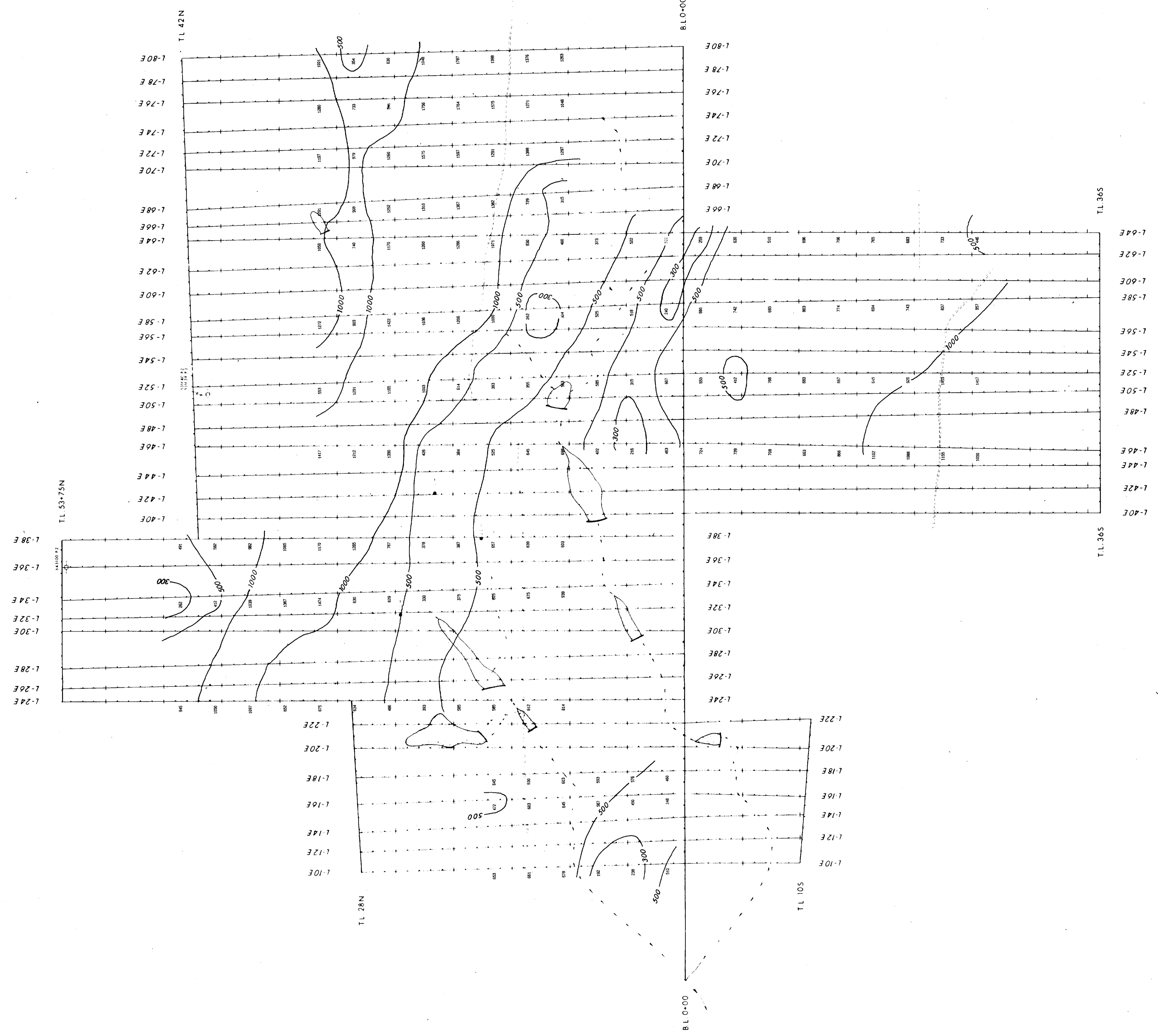
Method : DIPOLE-DIPOLE
 Method : FREQUENCY DOMAIN
 I.P. TRANSMITTER : MCPHAR 1968, 5A, 840V
 Instruments: I.P. RECEIVER : MCPHAR P660
 Frequency : 4 Hz. & .25 Hz.
 Separation of electrodes : a = 300 feet
 Separation between dipole : n = 5



Operators: G. B. B. P.
 63-467

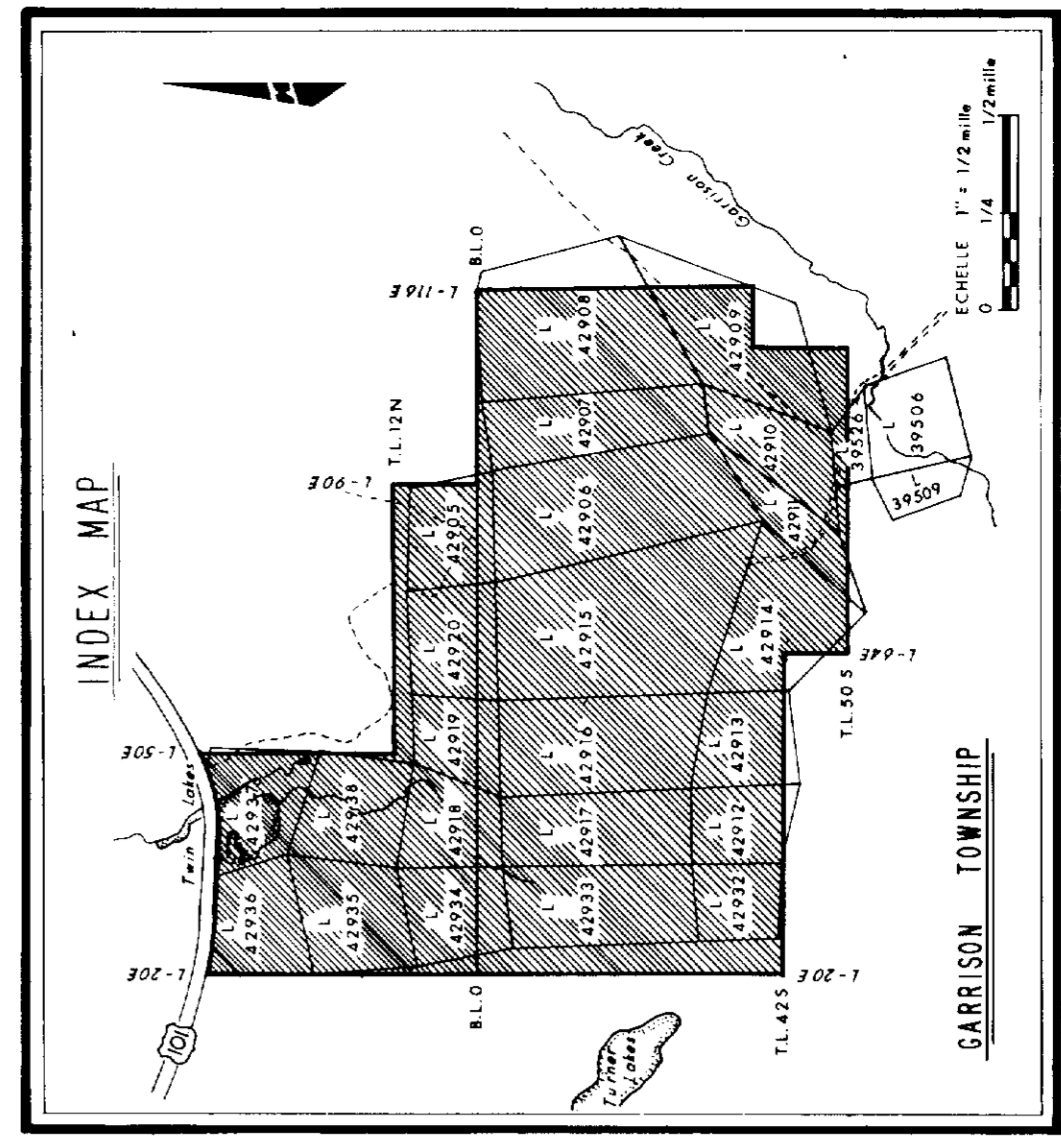
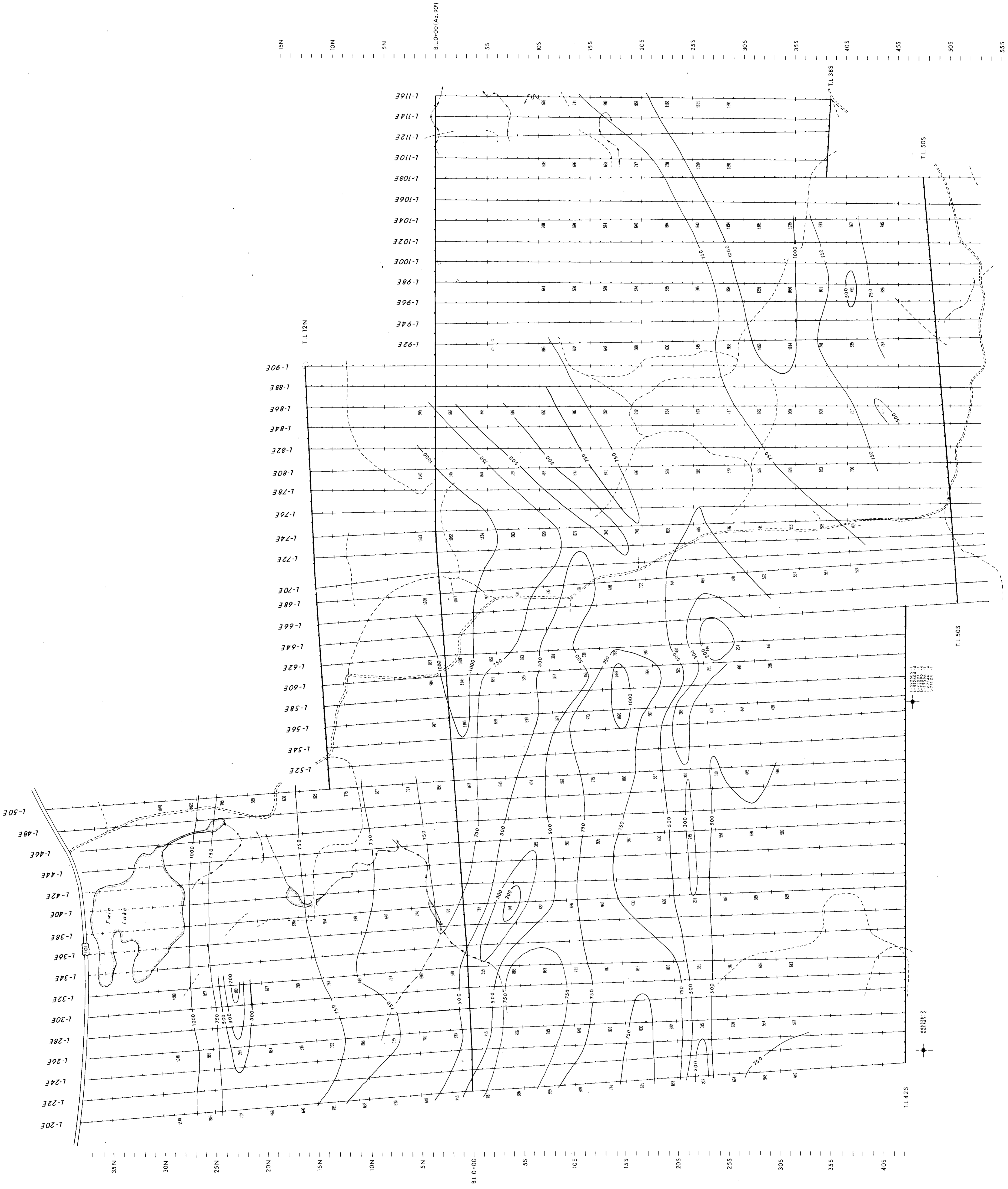
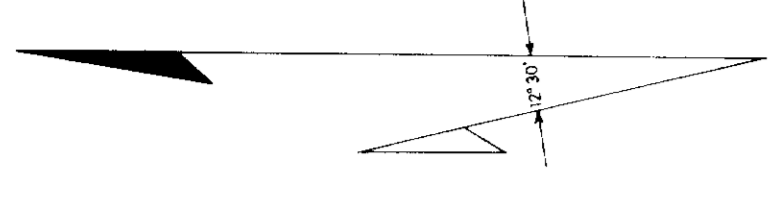


FOR: FALCONBRIDGE LIMITED	
SURVEY: RESISTIVITY CONTOURS	
5 TH SEPARATION	
BY: GEOLA LITEE	
PROJECT: PN-693	CUIBORD TWP
DATE: June 1984	RANGES III & IV
DESIGNED BY: C. G. G. P. D.	Ontario
DRAWN BY: J. P.	August 1984
APPROVED BY:	LAT. 48° 29' LONG. 80° 14'
PLAN No. 84-91615	NT.S.: 42A/B
SCALE: 1" = 400'	



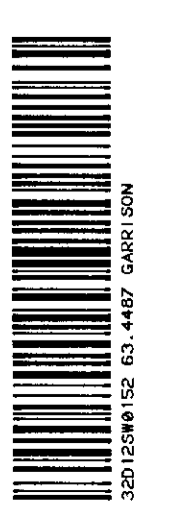
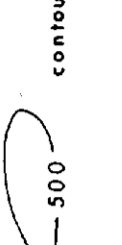
55N 50N 45N 40N 35N 30N 25N 20N 15N 10N 5N B.L.O-00 55 105 155 205 255 305 355 405

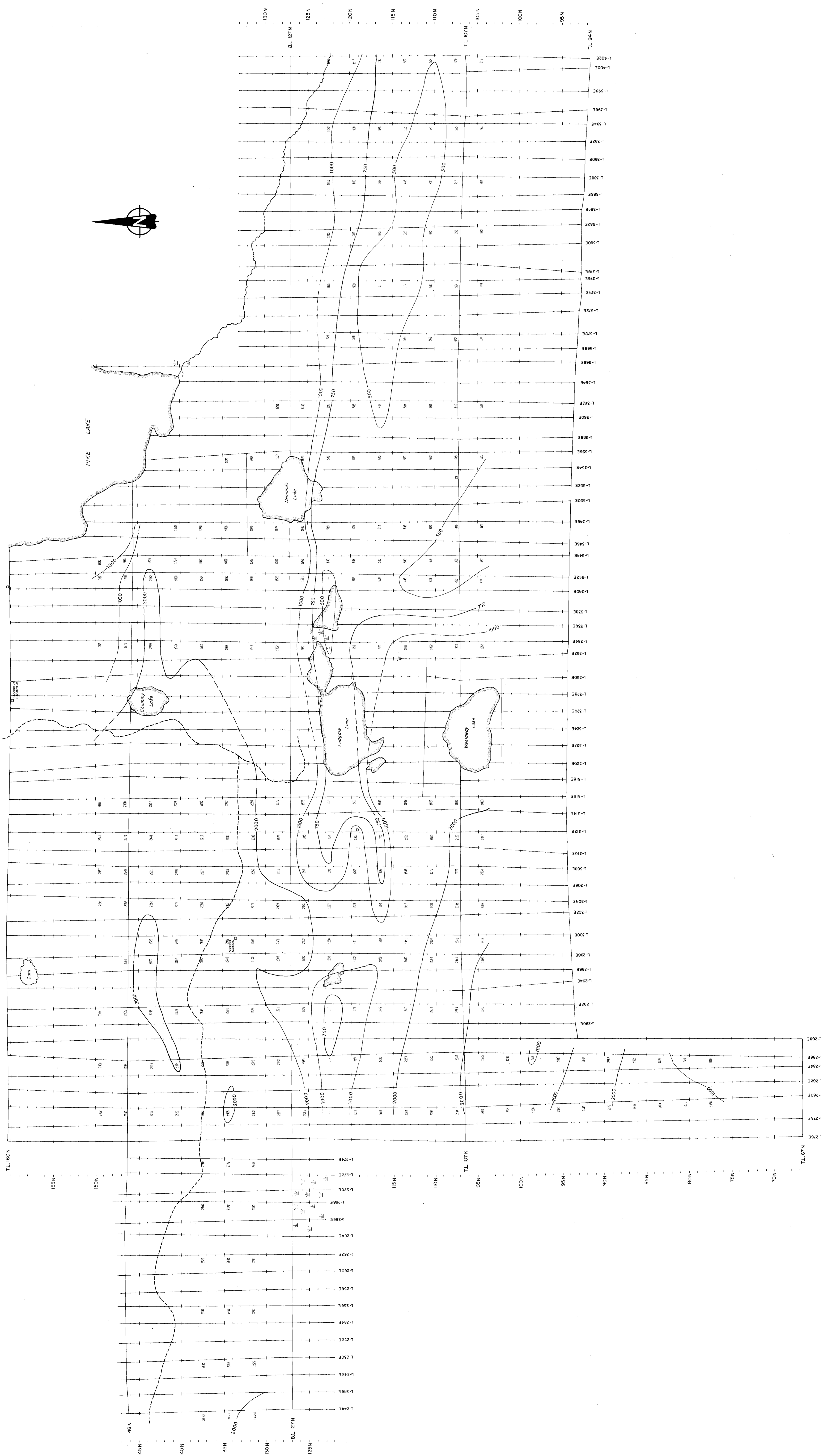




FOR: FALCONBRIDGE LIMITED	
SURVEY: INDUCED POLARIZATION SURVEY	
5 th SEPARATION CONTOUR (RESISTIVITY)	
INST. TRANS. MCMAR 1968, S.A. HDV. REC. MCMAR P. 600.	
BY: GEOLA LTD 634467	PROJECT:
EXECUTED BY: G. Barr	DATE: May 1984
DRAWING BY: M. Edwards Tech.	DATE: July 1984
APPROVED BY:	
REVIEWED BY:	
PLANNING: 843419	NTS.: 32D/12

GEOPHYSICS LEGEND





GEOPHYSICAL LEGEND

1000 CONTOUR
5th separation

FALCONBRIDGE LIMITED
234467

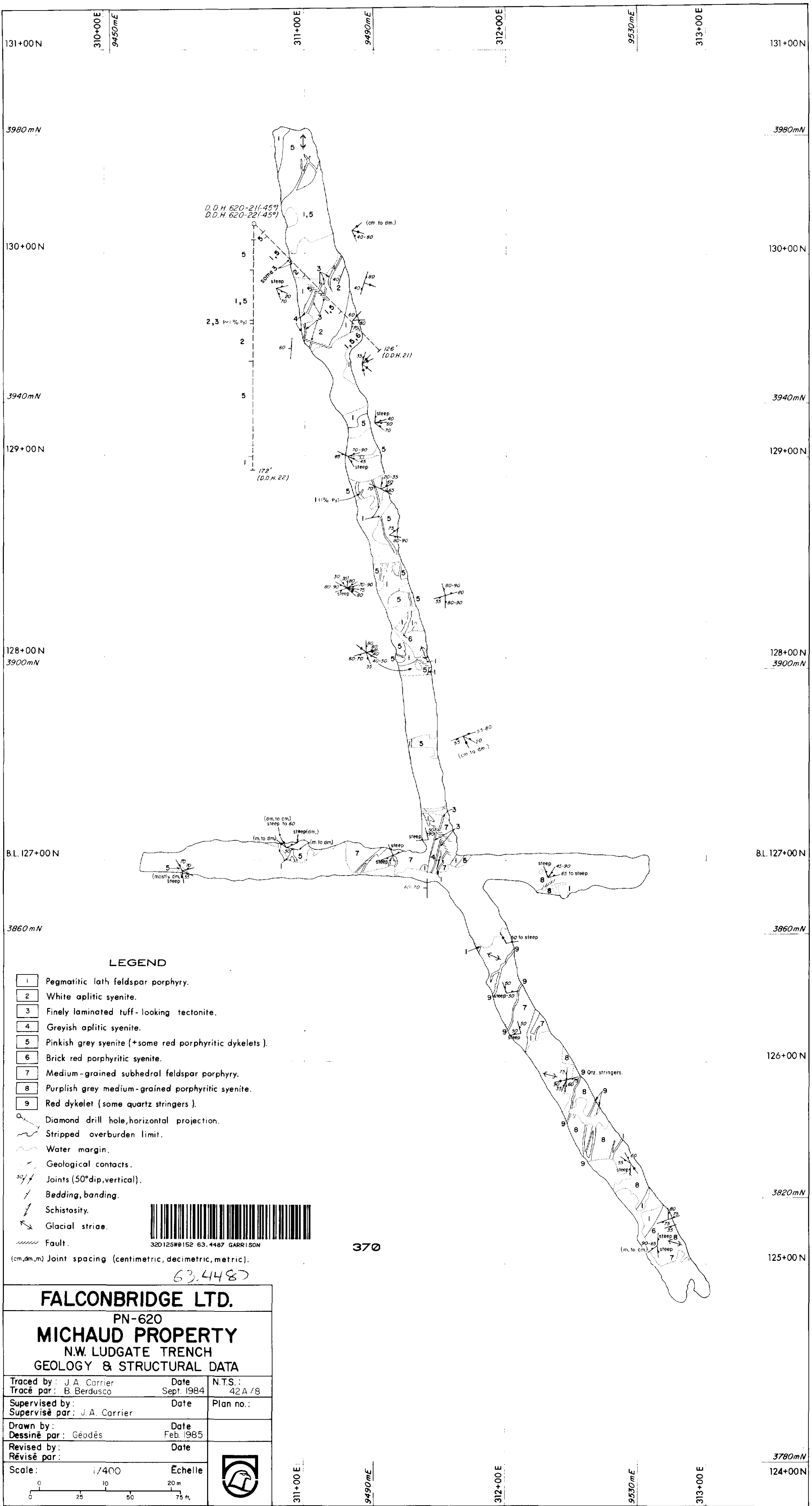
INDUCED POLARIZATION SURVEY
5th SEPARATION RESISTIVITY CONTOUR

1957 PLANS, MICHAEL 1982, SA, 8402, REC, MICHAEL 8402

SCALE 0 200 400 600 800

DATE: 08/19/82

42 A/B



LEGEND

- 1 Pegmatitic lath feldspar porphyry.
- 2 White aplitic syenite.
- 3 Finely laminated tuff-looking tectonite.
- 4 Greyish aplitic syenite.
- 5 Pinkish grey syenite (+some red porphyritic dykelets).
- 6 Brick red porphyritic syenite.
- 7 Medium-grained subhedral feldspar porphyry.
- 8 Purplish grey medium-grained porphyritic syenite.
- 9 Red dykelet (some quartz stringers).
- Diamond drill hole, horizontal projection.
- Stripped overburden limit.
- Water margin.
- Geological contacts.
- Joints (50° dip, vertical).
- Bedding, banding.
- Schistosity.
- Glacial striae.
- Fault.



370

FALCONBRIDGE LTD.
 PN-620
MICHAUD PROPERTY
 N.W. LUDGATE TRENCH
GEOLOGY & STRUCTURAL DATA

Traced by: J.A. Carrier Tracé par: B. Berdusco	Date Sept. 1984	N.T.S.: 42A/8
Supervised by: Supervisé par: J.A. Carrier	Date	Plan no.:
Drawn by: Dessiné par: Géodès	Date Feb. 1985	
Revised by: Révisé par:	Date	

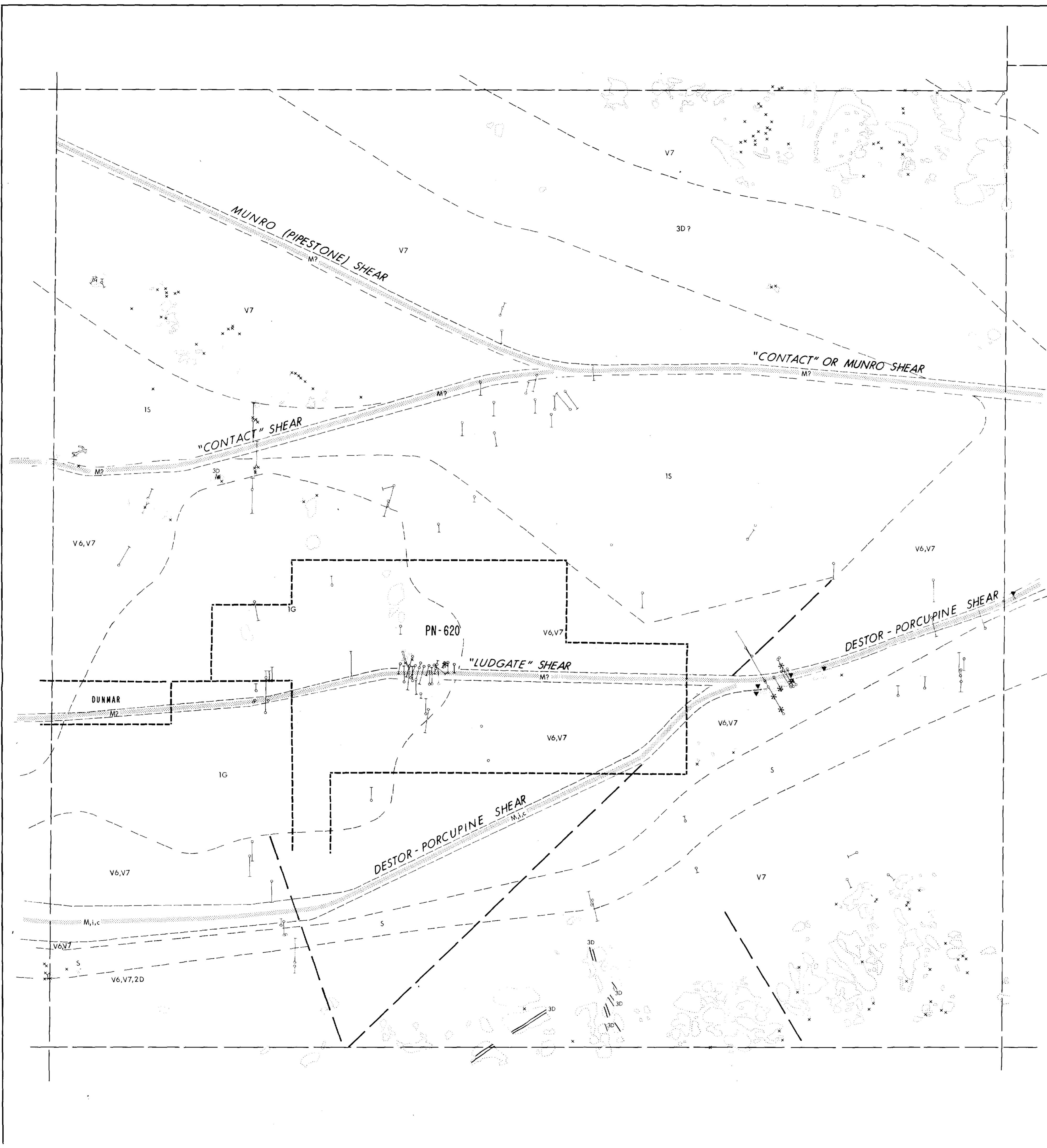
Scale: 1/400 Échelle

0 25 50 75 ft.



311+00E 9490mE 312+00E 9530mE 313+00E

131+00N
3980mN
130+00N
3940mN
129+00N
128+00N
3900mN
B.L. 127+00N
3860mN
126+00N
3820mN
125+00N
3780mN
124+00N

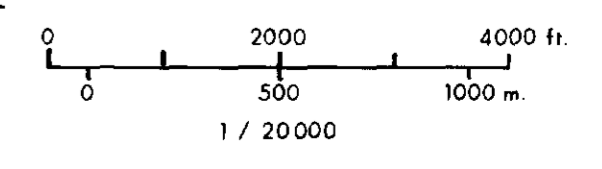


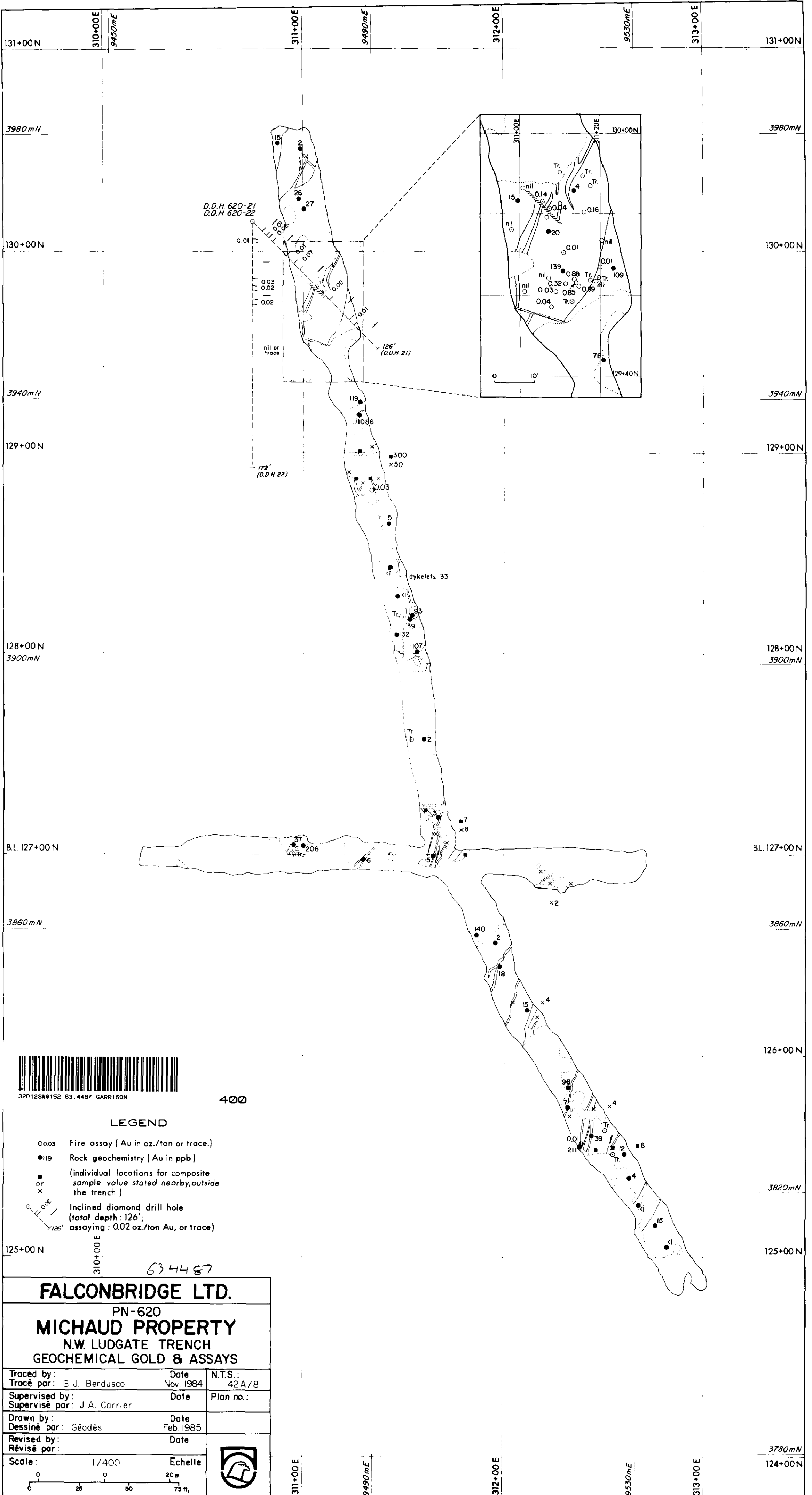
- 3D Diabase
- 1S Syenite
- 1G Granite
- 2D,3G Diorite, Gabbro
- 4 Peridotite
- V2 Rhyolite
- V5 Mafic and ultramafic lavas
- V8 Pyroclastic rocks
- S Sediments
- M (i,c,i) Schists (talc, chlorite, carbonate)

ALTERATIONS

- ▼ Carbonate
- * Talc - Chlorite
- Fault
- ▨ Shear zone
- - - Assumed contact
- PN-620 Claim block outline with project number

63 4487
MICHAUD TOWNSHIP
FALCONBRIDGE LTD/LTÉE
PN-604
GEOLOGICAL DATA
INTERPRETATION
M. Bérubé, July 1984





131+00N 310+00E 9450mE 311+00E 9490mE 312+00E 9530mE 313+00E 131+00N

3980mN 3980mN

130+00N 130+00N

3940mN 3940mN

129+00N 129+00N

128+00N 3900mN 128+00N 3900mN

B.L. 127+00N B.L. 127+00N

3860mN 3860mN

126+00N 126+00N

3820mN 3820mN

125+00N 125+00N

3780mN 124+00N



400

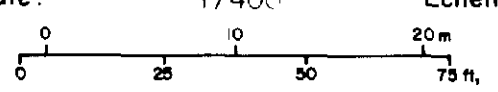
LEGEND

- 003 Fire assay (Au in oz./ton or trace.)
- 119 Rock geochemistry (Au in ppb)
- or x (individual locations for composite sample value stated nearby, outside the trench)
- 119 126' Inclined diamond drill hole (total depth: 126'; assaying: 0.02 oz./ton Au, or trace)

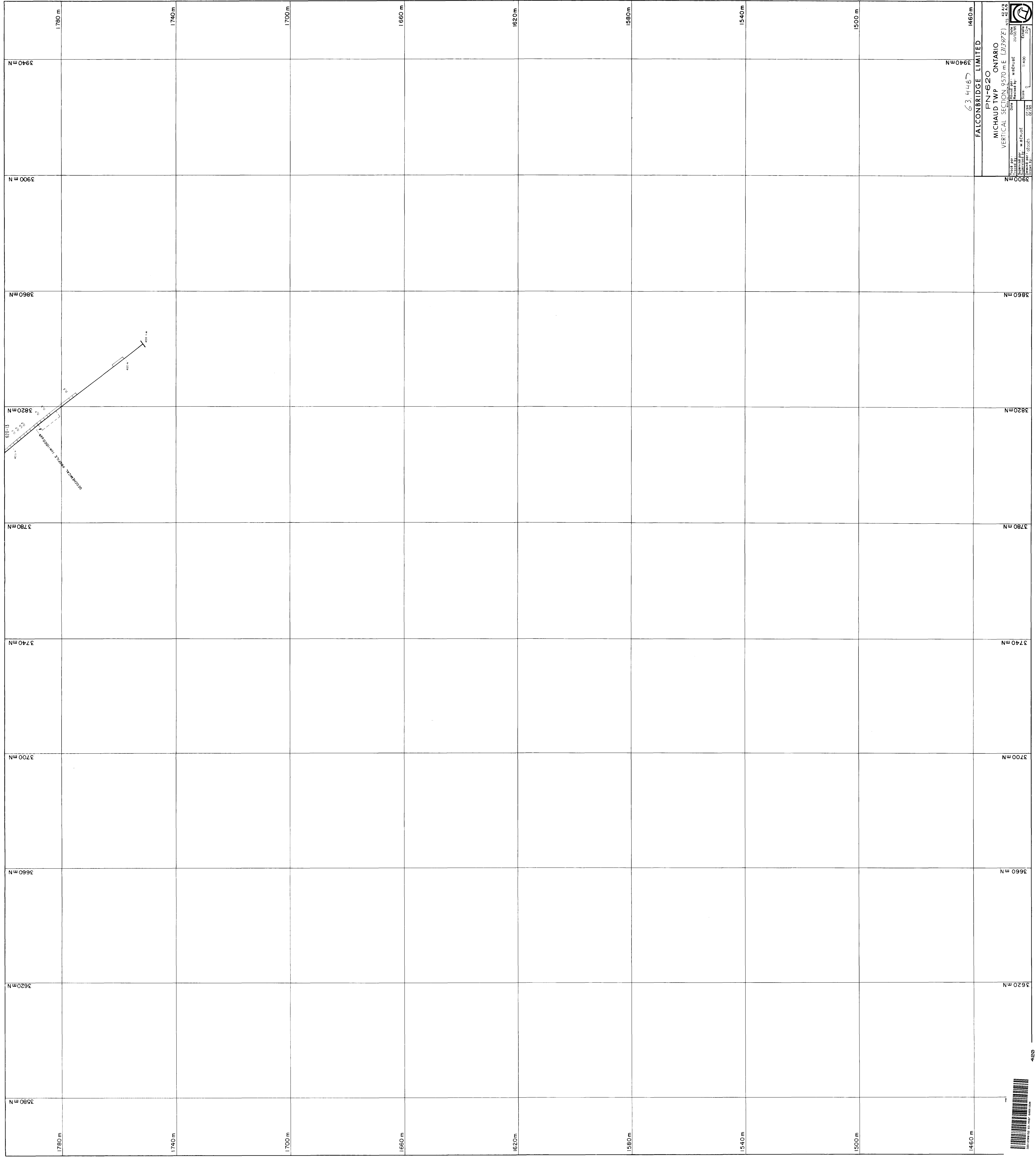
125+00N 310+00E 63.4487

FALCONBRIDGE LTD.
 PN-620
MICHAUD PROPERTY
 N.W. LUDGATE TRENCH
 GEOCHEMICAL GOLD & ASSAYS

Traced by: Tracé par: B. J. Berdusco	Date Nov. 1984	N.T.S.: 42A/8
Supervised by: Supervisé par: J. A. Carrier	Date	Plan no.:
Drawn by: Dessiné par: Géodès	Date Feb. 1985	
Revised by: Révisé par:	Date	
Scale: 1/400	Echelle	



311+00E 9490mE 312+00E 9530mE 313+00E

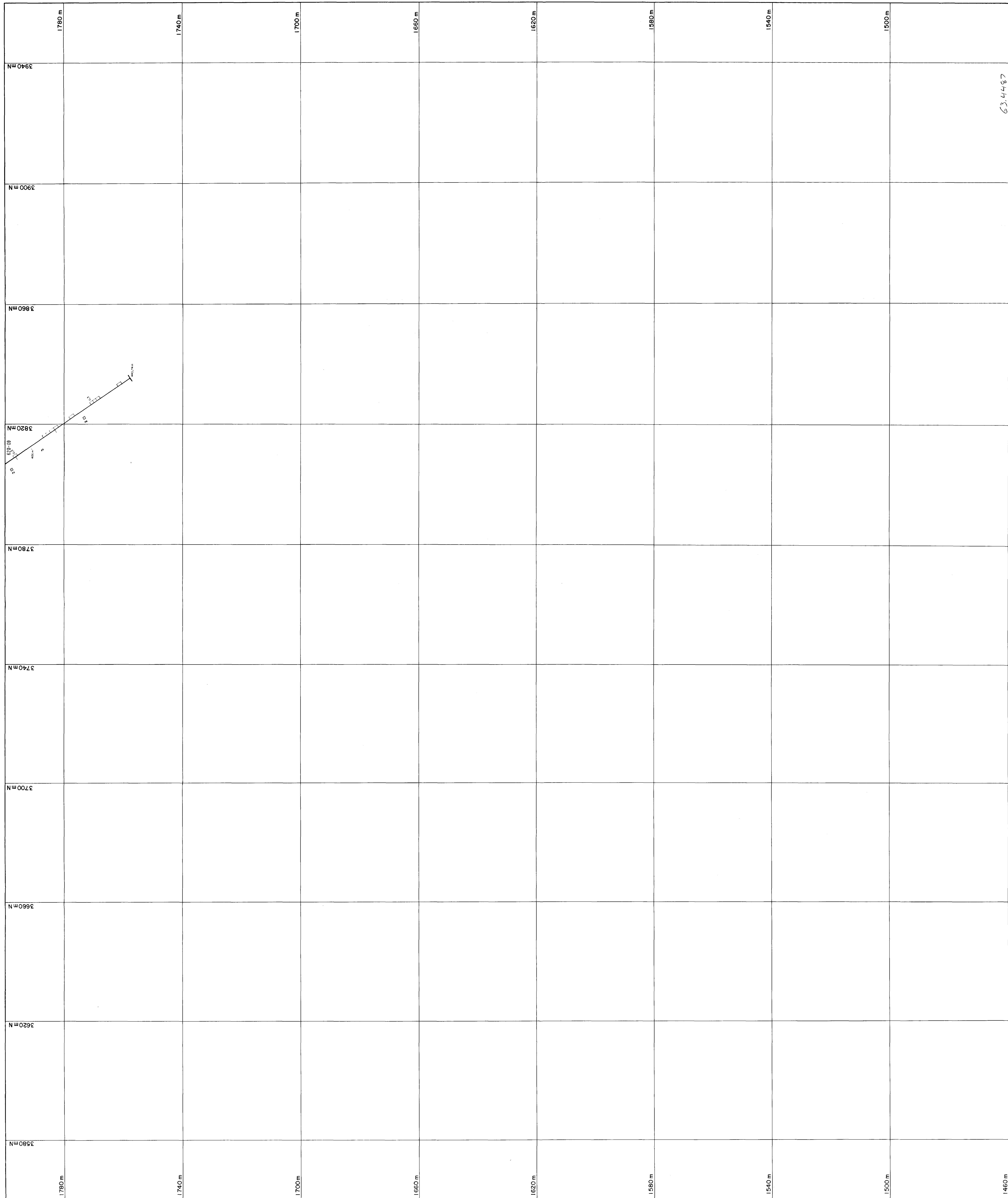


63 4467

FALCONBRIDGE LIMITED

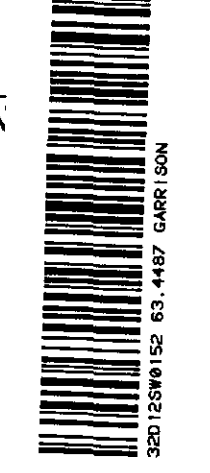
PN-620 ONTARIO
 MICHAUD TWP VERTICAL SECTION 9570 m E (3397E)

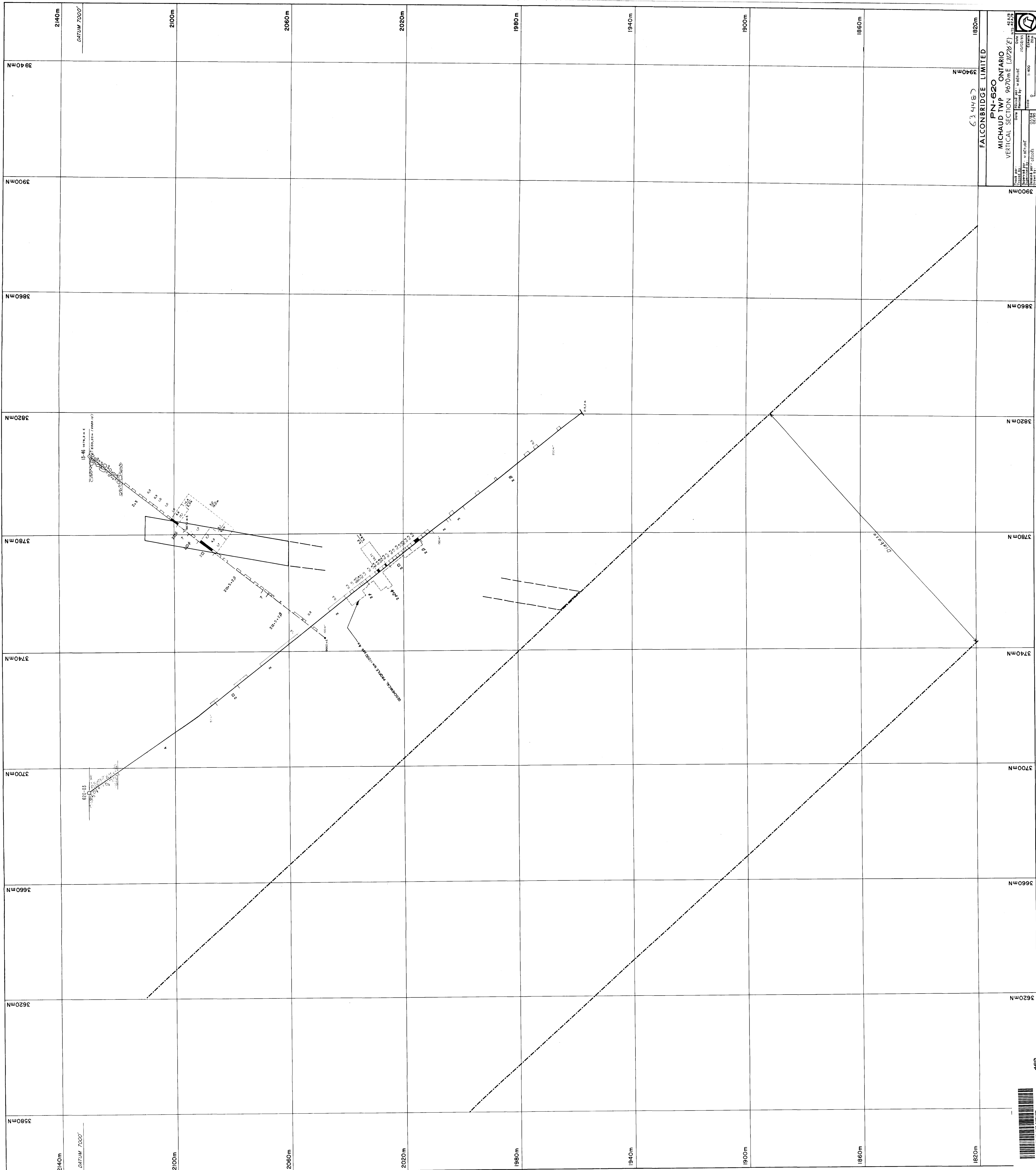
DATE: 02/02/09
 DRAWN BY: M. BENOISE
 CHECKED BY: M. BENOISE
 SCALE: 1:400
 SHEET: 01 OF 02



63-4487
FALCONBRIDGE LIMITED
 PN-620
 MICHAUD TWP. ONTARIO
 VERTICAL SECTION 9610 m.E. (3/2292)

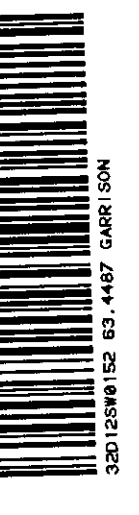
Drawn by: [blank]
 Checked by: [blank]
 Date: 07/25/05
 Scale: 1:400
 Project No: 63-4487
 Date: 07/25/05
 Drawn by: [blank]

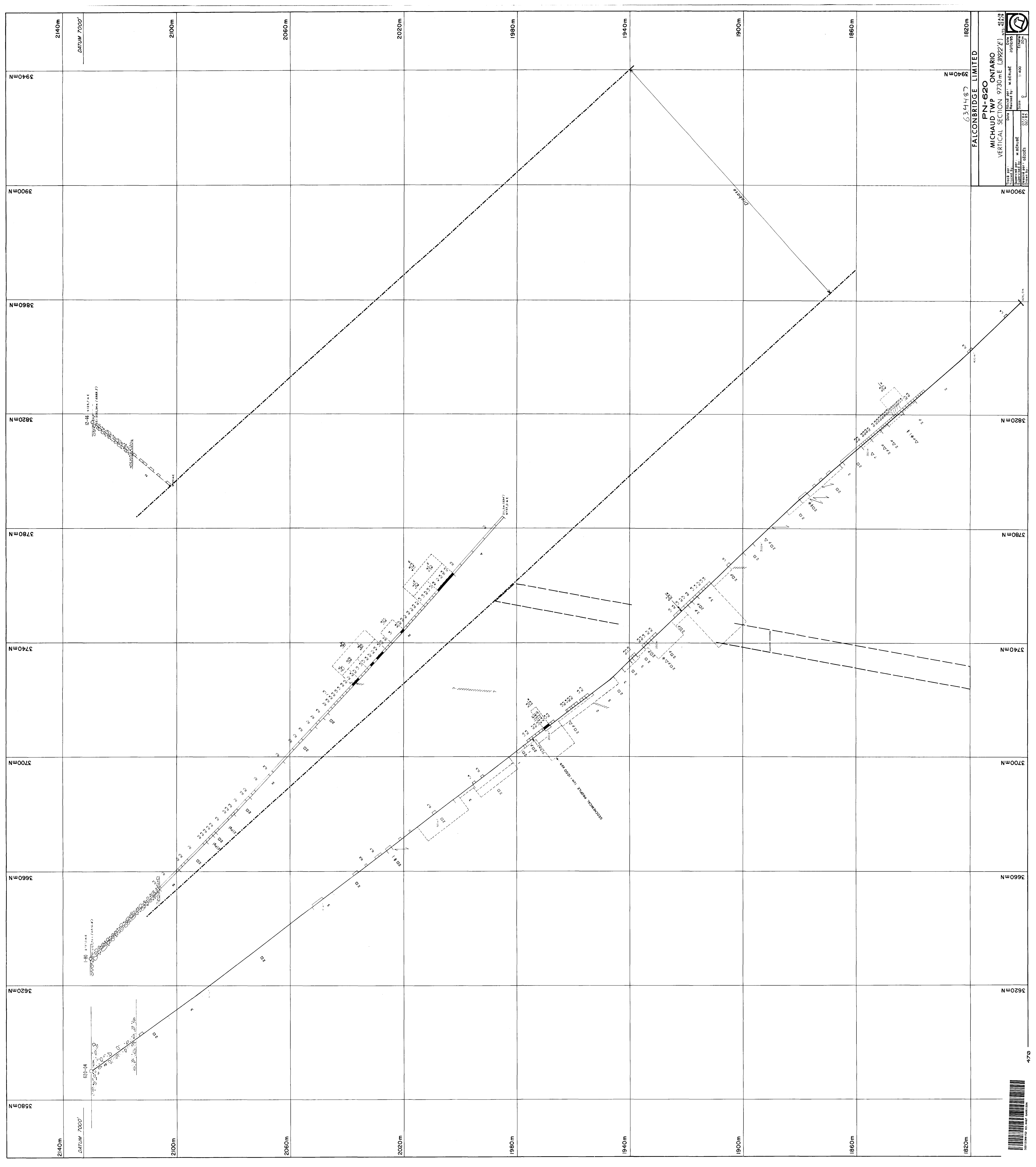
4-40




63448

FALCONBRIDGE LIMITED
 PN-620
 MICHAUD TWP ONTARIO
 VERTICAL SECTION 9670mE (3728'E)
 Date 20/02/15
 Prepared by W. B. G. G. G.
 Checked by W. B. G. G. G.
 Drawn by W. B. G. G. G.
 Scale 1:400
 Sheet 0
 460



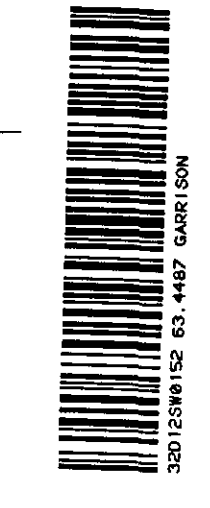


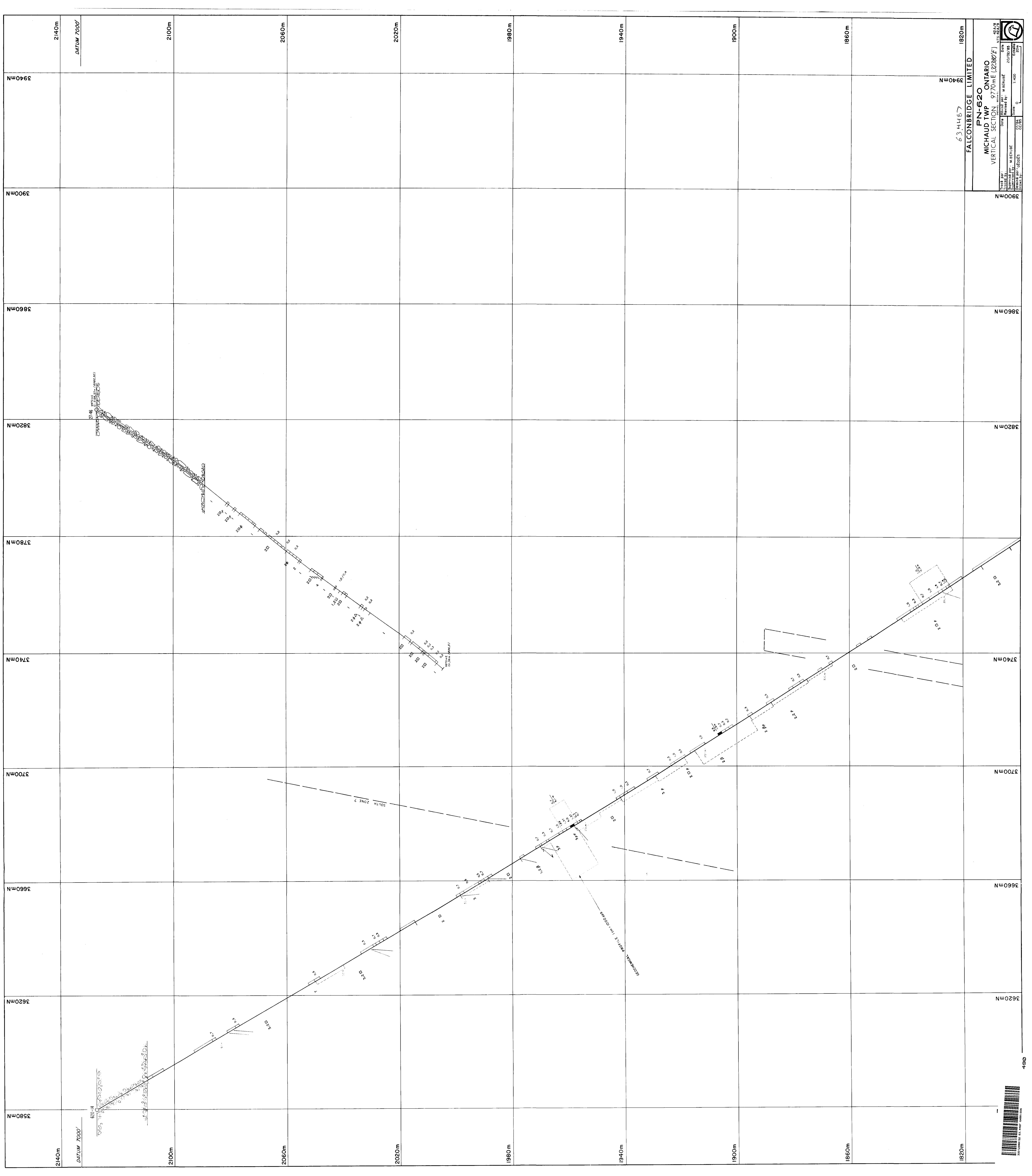
FALCONBRIDGE LIMITED
634148D

PN-620
MICHAUD TWP ONTARIO
VERTICAL SECTION 9730m E (3922'E)

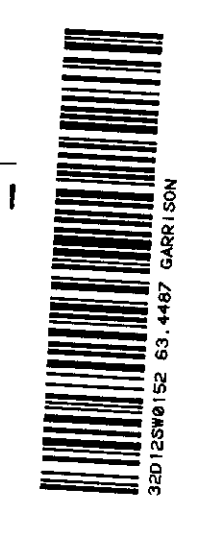
DATE: 2002/08/20
DRAWN BY: M. DEPURE
CHECKED BY: M. DEPURE
SCALE: 1:400
SHEET: 1
TOTAL SHEETS: 2

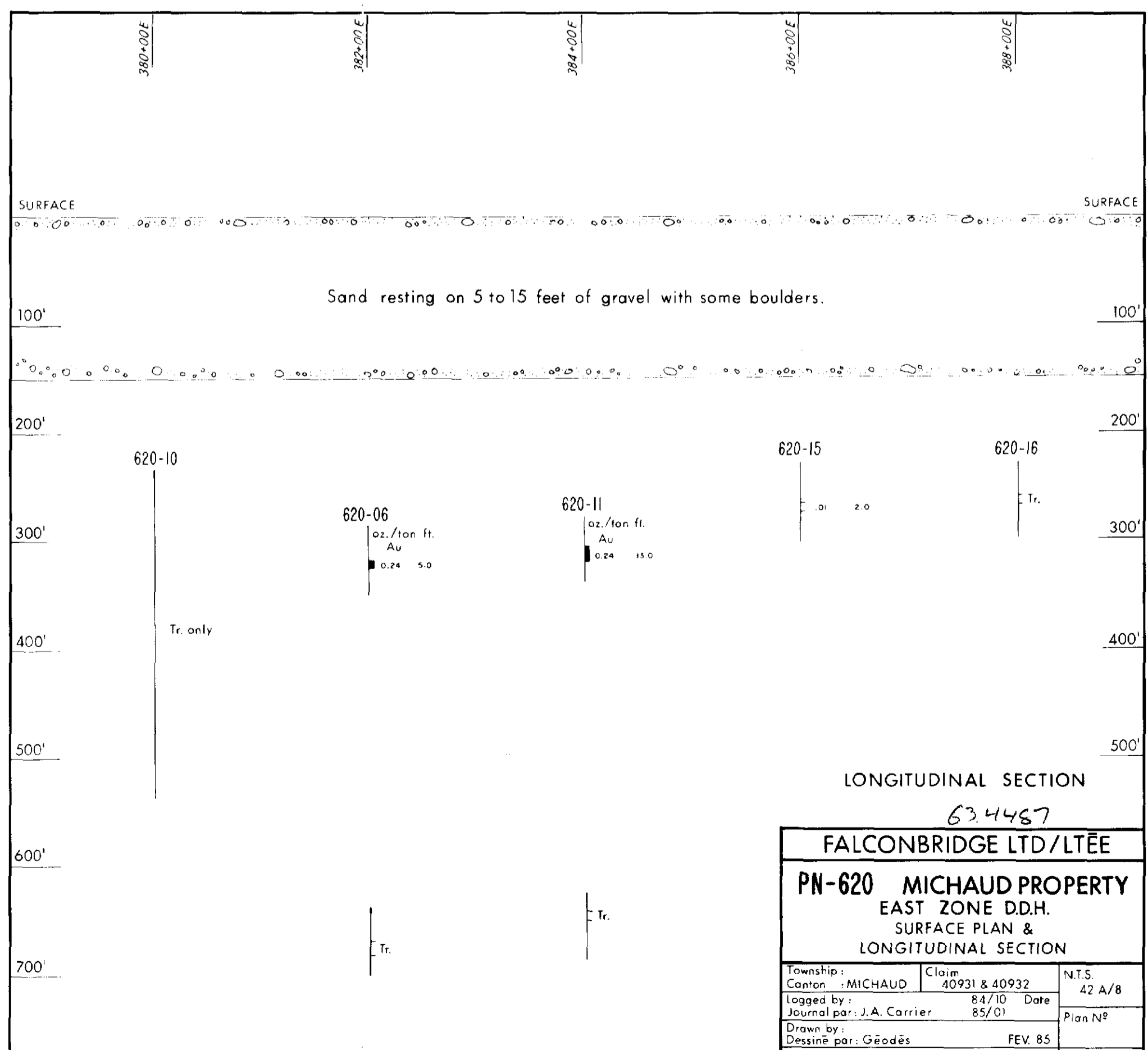
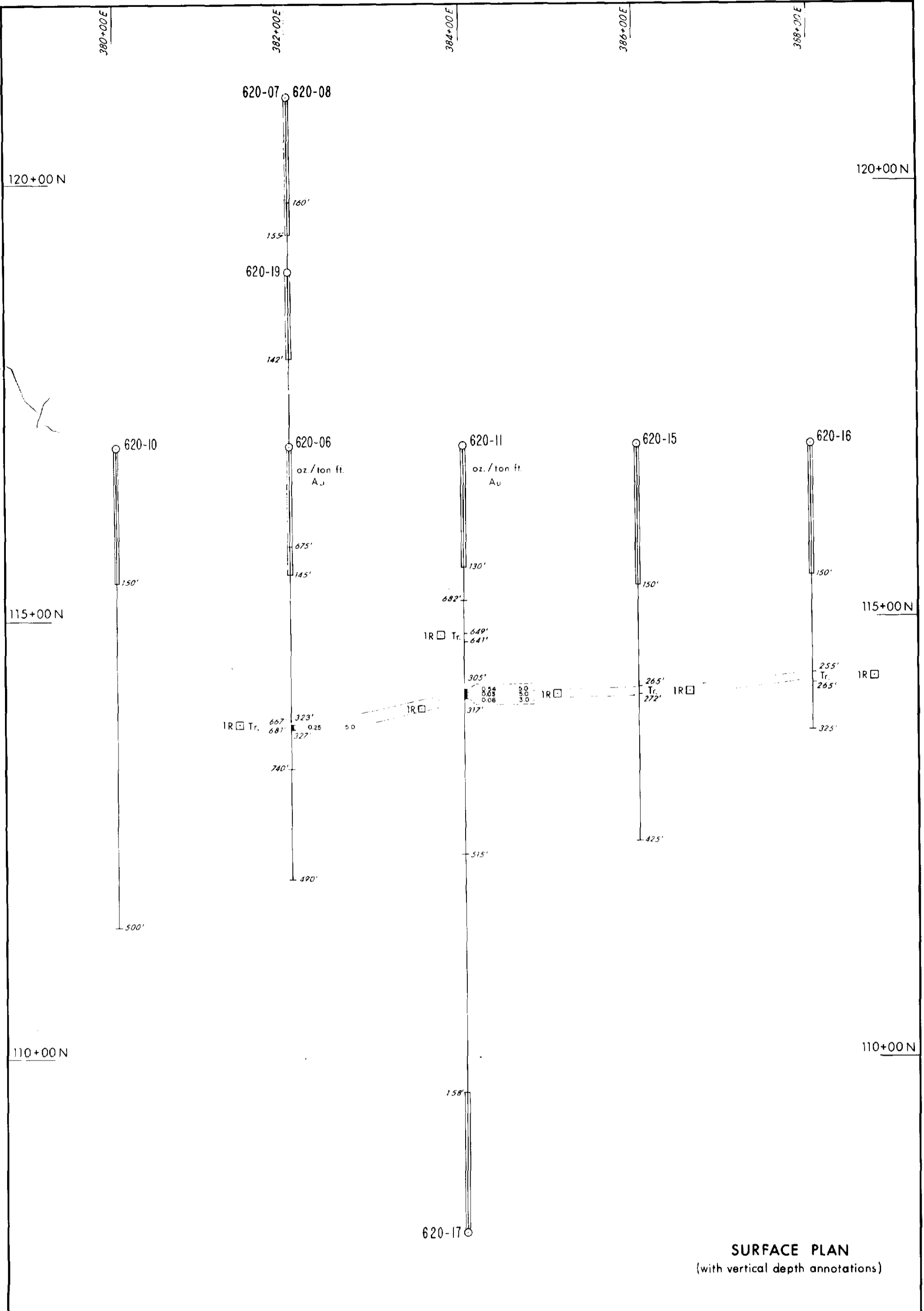
3940m N
3900m N
3860m N
3820m N
3780m N
3740m N
3700m N
3660m N
3620m N
3580m N





63 H4167
 FALCONBRIDGE LIMITED
 PN-620
 MICHAUD TWP ONTARIO
 VERTICAL SECTION 9770mE (22360'E)
 Date: 20/02/85
 Drawn by: [Name]
 Checked by: [Name]
 Scale: 1:400
 Elevation: 1000
 Project No: 63 H4167





FALCONBRIDGE LTD/LTÉE
63.4487

PN-620 MICHAUD PROPERTY
EAST ZONE DDH.
SURFACE PLAN &
LONGITUDINAL SECTION

Township: MICHAUD	Claim: 40931 & 40932	N.T.S. 42 A/8
Logged by: J.A. Carrier	Date: 84/10	Plan N°
Journal par: J.A. Carrier	Date: 85/01	
Drawn by: Dessiné par: Géodès	FEV. 85	
Revised by: Révisé par:		
SCALE / ÉCHELLE 1:1200		
0 100' 200'		





9410mE

9450mE

9490mE

9530mE

9570mE

9610mE

9650mE

9690mE

9730mE

2140m

2000m

2060m

2020m

1980m

1940m

1900m

1860m

1820m

1780m

1740m

1700m

1660m

1620m

1580m

1540m

1500m

1460m

1420m

1380m

1340m

1300m

1260m

1220m

1180m

1140m

1100m

1060m

1020m

980m

940m

900m

860m

820m

780m

740m

700m

660m

620m

580m

540m

500m

460m

420m

380m

340m

300m

260m

220m

180m

140m

100m

60m

20m

0m

1820m

1860m

1900m

1940m

1980m

2020m

2060m

2100m

2140m

2180m

2220m

2260m

2300m

2340m

2380m

2420m

2460m

2500m

2540m

2580m

2620m

2660m

2700m

2740m

2780m

2820m

2860m

2900m

2940m

2980m

3020m

3060m

3100m

3140m

3180m

3220m

3260m

3300m

3340m

3380m

3420m

3460m

3500m

3540m

3580m

3620m

3660m

3700m

3740m

3780m

3820m

3860m

3900m

3940m

3980m

4020m

4060m

4100m

4140m

4180m

4220m

4260m

4300m

4340m

4380m

4420m

4460m

4500m

4540m

4580m

4620m

4660m

4700m

4740m

4780m

4820m

4860m

4900m

4940m

4980m

5020m

5060m

5100m

5140m

5180m

5220m

5260m

5300m

5340m

5380m

5420m

5460m

5500m

5540m

5580m

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5660m

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5780m

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6220m

6260m

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6340m

6380m

6420m

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6500m

6540m

6580m

6620m

6660m

6700m

6740m

6780m

6820m

6860m

6900m

6940m

6980m

7020m

7060m

7100m

7140m

7180m

7220m

7260m

7300m

7340m

7380m

7420m

7460m

7500m

7540m

7580m

7620m

7660m

7700m

7740m

7780m

7820m

7860m

7900m

7940m

7980m

8020m

8060m

8100m

8140m

8180m

8220m

8260m

8300m

8340m

8380m

8420m

8460m

8500m

8540m

8580m

8620m

8660m

8700m

8740m

8780m

8820m

8860m

8900m

8940m

8980m

9020m

9060m

9100m

9140m

9180m

9220m

9260m

9300m

9340m

9380m

9420m

9460m

9500m

9540m

9580m

9620m

9660m

9700m

9740m

9780m

9820m

9860m

9900m

9940m

9980m

10000m

10040m

10080m

10120m

10160m

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10240m

10280m

10320m

10360m

10400m

10440m

10480m

10520m

10560m

10600m

10640m

10680m

10720m

10760m

10800m

10840m

10880m

10920m

10960m

11000m

11040m

11080m

11120m

11160m

11200m

11240m

11280m

11320m

11360m

11400m

11440m

11480m

11520m

11560m

11600m

11640m

11680m

11720m

11760m

11800m

11840m

11880m

11920m

11960m

12000m

12040m

12080m

12120m

12160m

12200m

12240m

12280m

12320m

12360m

12400m

12440m

12480m

12520m

12560m

12600m

12640m

12680m

12720m

12760m

12800m

