Property Evaluation following Dipole-Dipole Induced Polarization and Diamond Drilling

on

A 93 Claim Block (viz. K88702 et al) on Pipestone Lake
in the Kenora District

for

Ross Island Resources Inc.
Suite 910
335 Bay Street
Toronto, Ontario
M5H 2R3

by

Michael Ogden, B.A.Sc.,P.Eng.,
with Induced Polarization data by Mertens & MacNeil Ltd.
Interpretation by Dr. Norman Paterson of Paterson, Grant & Watson Ltd.,
is shown on the pseudosections by Geosoft.
The drill contractor was Ultramobile of Surrey, B.C.

Toronto, Ontario
May 16, 1989

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APPENDIX

INTRODUCTION

The property lies amongst the volcanics and intrusives of the Wabigoon Subprovince of the Superior Archean geological province of Canada. It is within the 5 to 20 km wide volcanic syncline that extends from Dryden and Wabigoon southwest through Manitou Lakes and on into northern Minnesota.

There are a numerous gold showings, particularly around the Manitou Lakes, four of which have had some production. The nearest producer is the Straw Lake Beach Mine some 12 km northeast of the property, which was in production for the first few years of the last war.

The present claim block is staked around and along strike of the Dr. Young gold showings on patented ground. They have some good grade surface assays (up to an ounce or so) but rather poorer intersections in a 12 drill hole program. There were just a few intersections of 0.1 to 0.3 ounce of gold per ton over a few feet.

From an examination of their work and our check sampling of a couple of their holes, it is clear that the best gold mineraliztion lies in or near a sheared contact between basalt and granite and the more quartz veins the better.

An extensive exploration program along strike of these showings by geochemistry, geology and geophysics over the past three years has culminated in the recent drilling of seven holes to probe the six best zones of apparent mineralization.

REFERENCES AND HISTORY

1. The Ontario Ministry of Northern Development and Mines has on file in their assessment library at 77 Grenville Street, Toronto, all the major reports done on this property over the last 3 years, e.g. the original geochemistry, the geology, the gradient array induced polarization and the follow-up geology, with some magnetometer and self potential check work done last summer. Those files should be examined for details of history of the area and work done on this property.

2. Amongst other works of general interest would be:

   (a) Bethune Lake Area, O.G.S. Report 201, by G. R. Edwards, 1983, with Map 2430.

   (b) Gold Deposits of the Kenora-Fort Francis Area, Mineral Deposit Circular 16, M.N.R. 1976.

   (c) Aeromagnetic maps Kakagi Lake 1168G, 1961.

PROPERTY, LOCATION AND ACCESS

The property, which consists of 93 claims, lies 65 miles (105 km) southeast of Kenora and 30 miles (48 km) northwest of Fort Francis. It extends for 6 miles (10 km) along Pipestone Lake. Access is by motor boat from the end of the road on Burditt Lake (locally called Clearwater) about 15 miles (24 km) to the south. A 200 foot rail portage connects Burditt with Pipestone for a fee of around $10.00. Alternatively, aircraft can be chartered from Nestor Falls or Fort Frances (16 or 30 miles distant).

The claims are numbered as follows:

887802	& - 803	= 2 claims	Recorded July 4, 1986	
908189	& - 197	= 2 "	" "	"
928063	to - 087 incl.	= 25 "	" "	"
928114	to - 128 "	= 15 "	" Sept.11,	"
940146	to - 148 "	= 3 "	" "	"
940152	& - 153	= 2 "	" "	"
940155	to - 186 incl.	= 32 "	" "	"
1001127	to - 130 "	= 4 "	" Sept. 9, 1987	
1011873	to - 876 "	= 4 "	" "	"
1003957	to - 60 "	= 4 "	" Oct. 14,	"
		93 claims		

RECENT EXPLORATION

The gradient array induced polarization survey of a year ago disclosed fifteen anomalous zones that might be sulphide mineralization with gold (numbered 1 to 13, including 4(a), 4(b) and 4(c)). The detailed examinations and check work by prospecting, geochemistry, self potential and magnetometer confirmed four zones of sulphide mineralization, viz. 1, 3, 12 and 13, another four were under water or swamp and could not be assessed, viz. 2, 7, 9 and 10. The remaining seven had good exposure of altered, chloritic and/or carbonated rocks but little or no sulphides and poor assays. Surface samples assayed between 1 to 5 ppb gold, except 11 which attained 13 ppb in a small carbonate zone. No further work could be recommended on these. The seven mineralized or covered zones plus three other areas were then surveyed in detail by dipole-dipole array with "a" equal to 25 metres and n = 1, 2, 3 and 4. The frequency used was 0.5 and 5.0 Hz. Mertens and MacNeil Ltd. did this work during February of 1989 with Ron Mertens as the operator.

GENERAL CONCLUSION

In summary it is clear that the numerous zones that we have found of shearing, carbonatization, altered quartz-carbonate schist, quartz flooded zones and even the breccias are almost devoid of gold (1 to 10 ppb). It has, however, been found in interesting amounts amongst small

quartz veins and siliceous zones in the south end of the property (200 to 420 ppb over 6 inches to 2 ft). Gold has also been found near the granite-gabbro fault contact area in Dr. Young's ground with 1 to 2 ounces over a foot or so, and south of that our float sample on Anomaly 7 of 1500 ppb in granite-gabbro contact. Then in the north end amongst anomaly 13 a single big quartz vein (there must be more) gave an assay of 0.18 ounces of gold over 4 feet. Re-assayed for metallic gold it ran 0.24 ounces and the other end of it, 50 feet away, ran 0.043 ounces over 5 feet.

Hence gold seems to be associated with the granite contact and the odd quartz vein.

What follows hereafter are the details of the different zones which tend to substantiate the conclusion above.

DIPOLE DIPOLE I.P. AND SUBSEQUENT DRILLING

The anomalous zones are hereafter discussed in numerical order. Plans and sections of each area are shown at the back of this report. There is no drill hole numbering system.

Area Zero (Trout Bay to Darrow Lake)

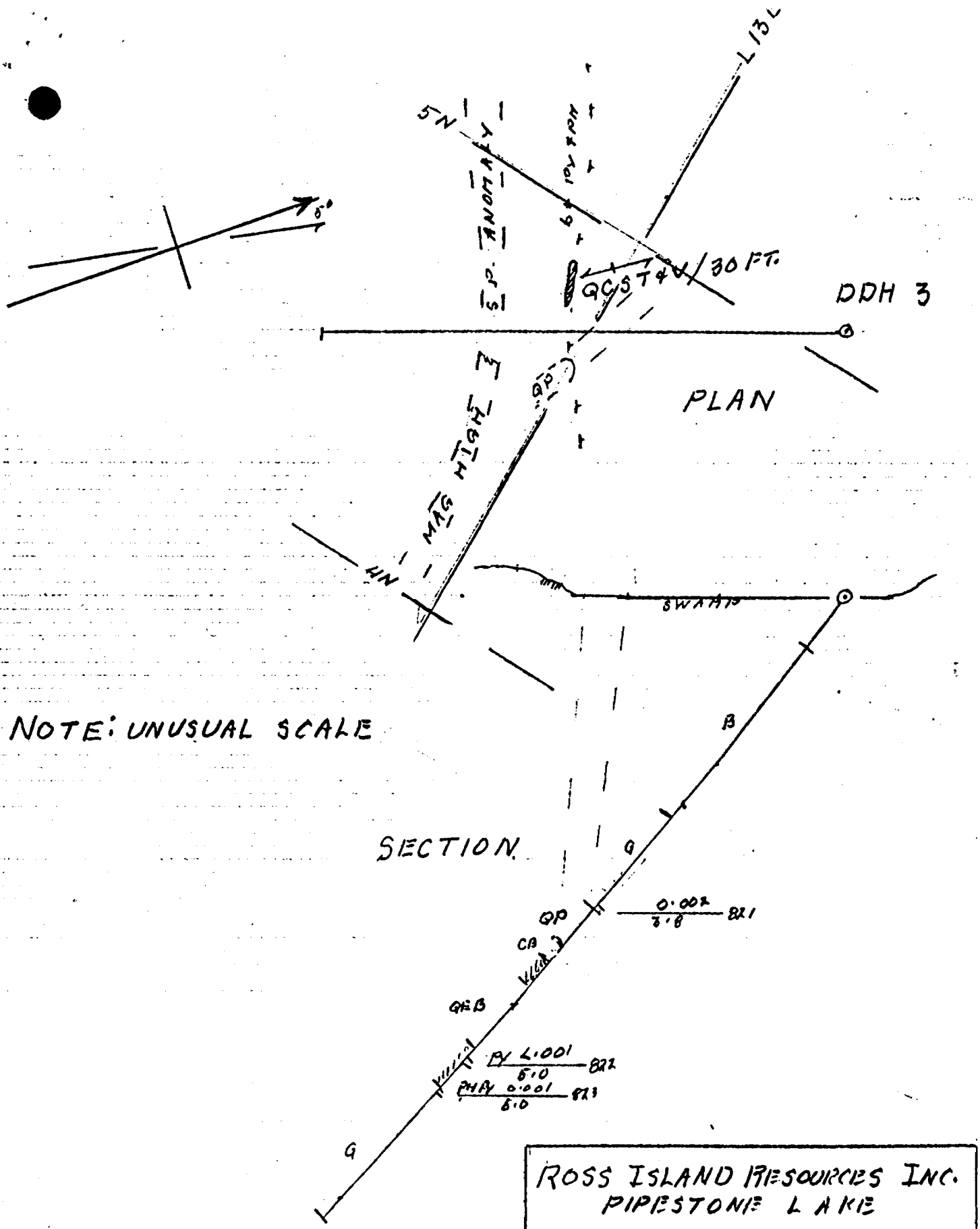
This is the area of more recent staking at the southwest corner of the property. A series of lines were run westerly at about 45° to both the base and picket lines. They were cut at 100 m intervals from the base line or line 9E to the far shore of Darrow Lake. The land here is very rough. Time was short near the close of the dipole-dipole induced polarization work so only the lake portion and a little of the land part was surveyed.

The results are shown on the accompanying I.P. sections, "Anomaly 0", lines 3 to 7 inclusive. There are no significant frequency effects whatever.

In conclusion the land portion of these claims has not yet been surveyed and the known geology is very interesting - a major fault extends along near the base line and plugs of quartz-diorite-porphyry seem to be common. Such a combination could lead to open fractures, a possible host to mineralization. The area should be re-examined, prospected and biogeochemically sampled.

Anomaly No.1 mostly in claim 1001130, forms part of a variously mineralized area of 4 to 6 claims near the south end of the property. The original biogeochemical forest litter sampling returned some anomalous results of 2 to 3 times background. As these came from the then edge of the property, another 10 claims were eventually staked as protection, of which 1001130 was one. The subsequent magnetometer survey and gradient induced polarization work produced highs and lows of each that could be connected in any direction. More detailed magnetometer and self potential surveying last summer clearly showed the locally mineralized zone near 500 north on line 13E to be striking about 58° west of north or 20° west of the picket lines. Locally this strike trend is concave toward the west. I now suspect this trend to be that of the originaL lava flows for there is a series of similar magnetic profiles toward grid west in this area, e.g. going west on grid 500N from line 13E there is a 2000 to 3000 gamma peak at 12.55E, a 5000 gamma local drop at 11.95E, then another high at 9.50E and a low at 9.2E. On line 600N the first high is at 12.2E and low at 11.8E, high at 8.9E and low at 8.6E. The first highs mentioned above are also self potential anomalies (the others were not tested).

The accompanying sketch of "DDH 3 into Anomaly No.1" shows this zone in plan and section along hole 3. It shows up as a few widely separated sulphides zones over 1 to 5 feet from 450 to 590 feet in the hole. These have been sampled by numbers 16822, 16823, 16824 and 16825, giving results of less than 0.001 to 0.008 ounces gold per ton (i.e. 5 to 270 ppb). Previous surface samples were similar (see Geological Survey) with 2, 23, 54 and 77 ppb in mineralized rocks nearby.



ROSS ISLAND RESOURCES INC.
PIPESTONE LAKE

DDH-3 INTO ANOMALY-1

SCALE 1/1250 OR 1 IN = 100 FT.

BY MICHAEL OGIDEN MARCH 89

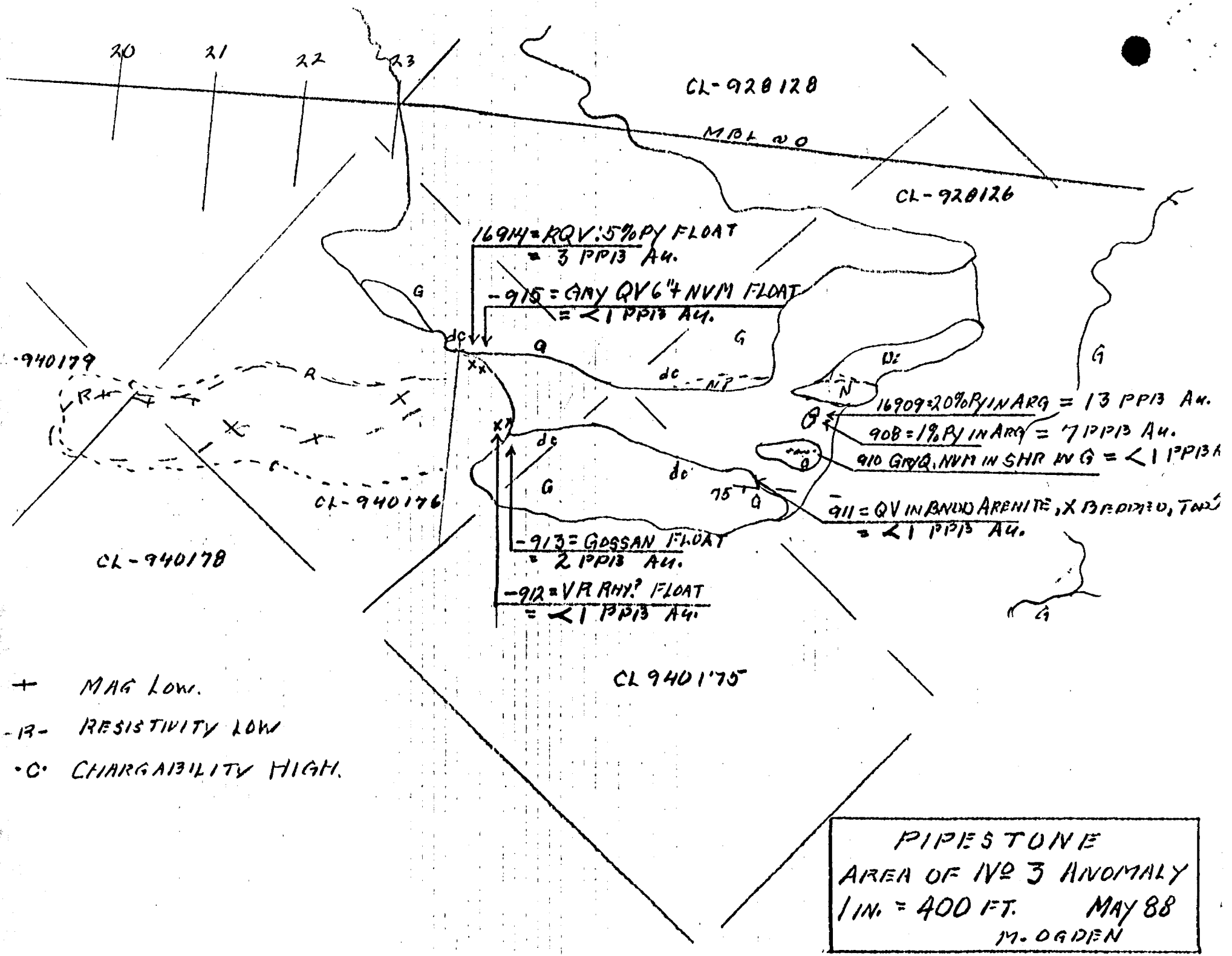
The bleached zone of minor sulphides in a black streaked and banded zone of quartz carbonate stringers, threads and veins over 30 feet on the surface shows up in hole 3 from 356 to 384 feet in the hole. This gives it a true width of close to 10 feet. The zone can be seen on surface to strike magnetic north or 5° east of True North, i.e. almost parallel to the nearby N-S claim line. Such a trend when followed for 600 to 800 feet toward the south would pass under the original 500 foot long biogeochemical anomaly of forest litter, i.e. samples 201 to 207.

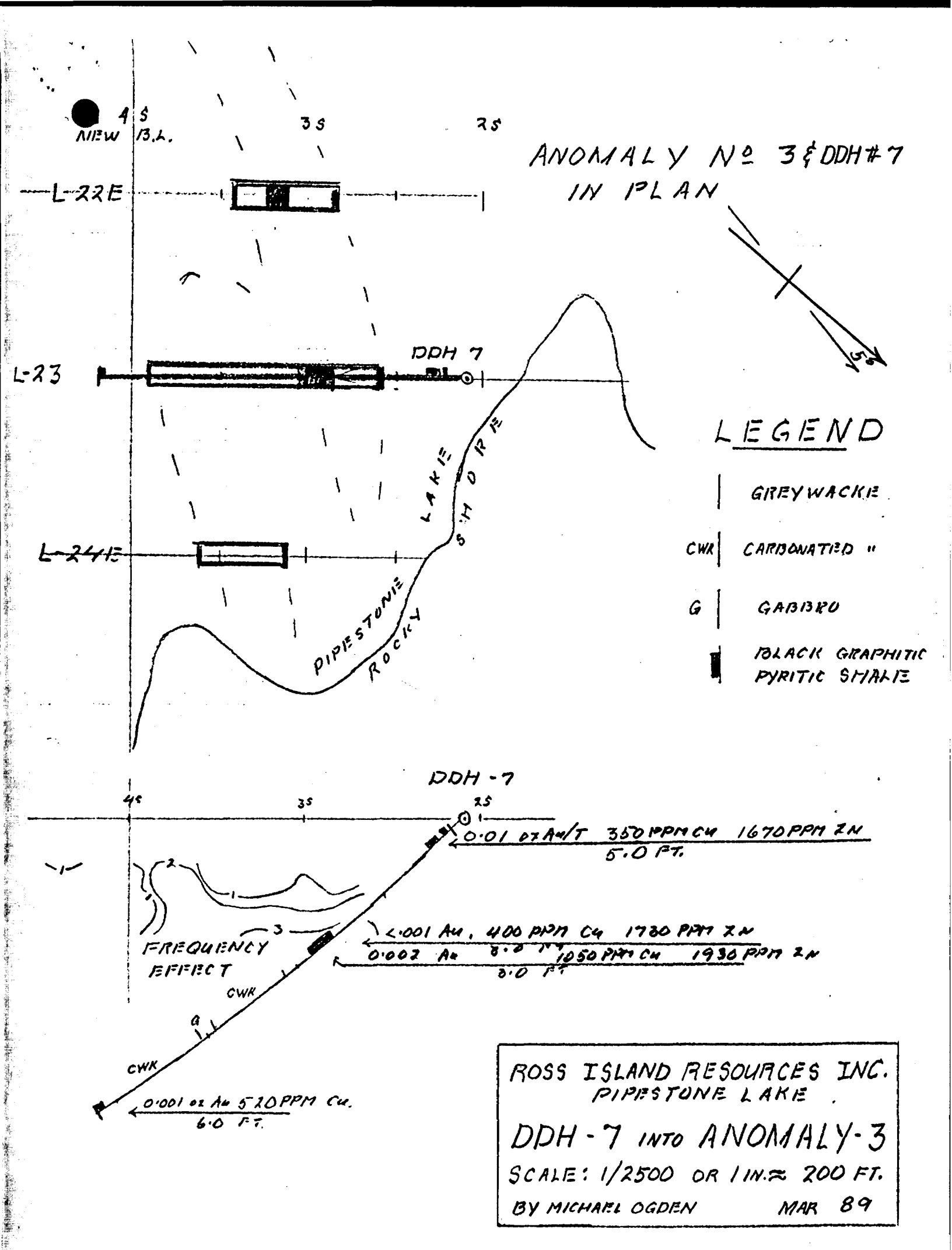
The true width of anomalous readings across this strike is nearly 200 feet. Still a 200 foot wide anomaly over a 10 to 20 foot wide zone is a good detection system. Assays of this zone in hole 3 were very low, less than 0.001 ounces per ton.

In conclusion the numerous granitic outcrops (quartz porphyry and quartz diorite porphyry) within these southern six to eight claims and the exposed sulphides, plus the values of 200 to 420 ppb gold in siliceous zones and quartz veins make this area worthy of another hard look. If forest litter were collected at 100 foot intervals on lines of 1000 feet in length across both the glaciation and strike direction at 1000 foot spacing (300 metres or every third picket line) some nine lines of 1000 feet or 100 samples would cover the interesting area at a cost of about $3,000. This would include geological mapping of the outcrop areas covered.

Anomaly No.2 in Trout Bay on Line 14E and vaguely on 15E by the original gradient I.P. The dipole-dipole check I.P. on each of those lines found nothing. Hence no drilling was done (see I.P. Sections, "Anomaly 2").

Anomaly No.3 in Claim 940176. This is the anomaly that Dr. Norman Paterson has liked from the time it was first defined by the gradient array induced polarization. The surface sampling of nearby altered rock (see sketch of May 1988) was slightly encouraging, but the


20
21
22
23
CL-928128
MBL N O
CL-928126
1691H = RQV: 5% PY FLOAT
= 3 PPB Au.
-915 = GRY QV 6" + NVM FLOAT
= < 1 PPB Au.
940179
CL-940176
CL-940178
16909 = 20% PY IN ARG = 13 PPB Au.
908 = 1% PY IN ARG = 7 PPB Au.
910 GRY Q. NVM IN SHR IN G = < 1 PPB A
911 = QV IN BNDD ARENITE, X BEDDING, TR
= < 1 PPB Au.
-913 = GOSSAN FLOAT
= 2 PPB Au.
-912 = VR RHY.? FLOAT
= < 1 PPB Au.
CL 940175
+ MAG LOW.
-R- RESISTIVITY LOW
•C• CHARGABILITY HIGH.
PIPESTONE
AREA OF NO 3 ANOMALY
1 IN. = 400 FT. MAY 88
M. OGDEN



ROSS ISLAND RESOURCES INC.
PIPESTONE LAKE

DDH-7 INTO ANOMALY-3

SCALE: 1/2500 OR 1 IN. ≈ 200 FT.

BY MICHAEL OGDEN MAR 89

argillite in samples 16908 and 16909 with pyrite made one think of a possible formational anomaly (David Melling examination, Summer 1988).

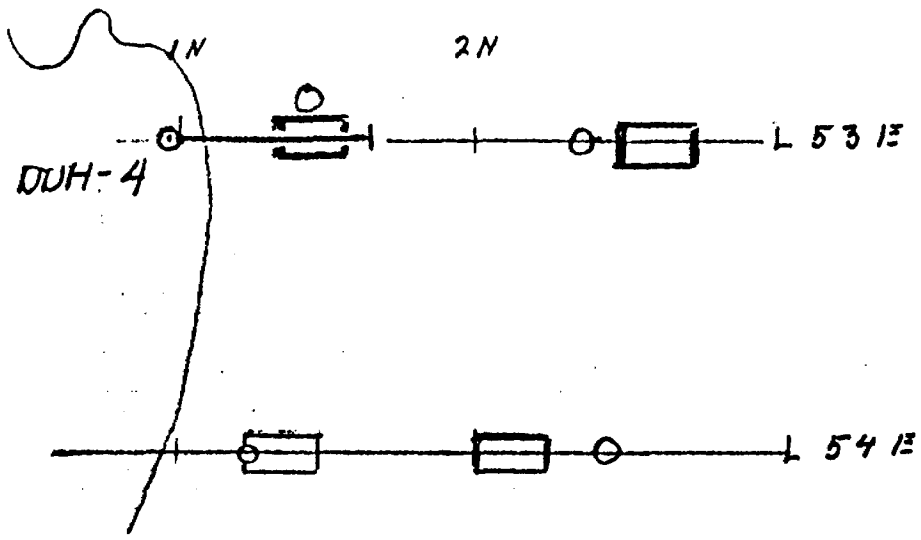
The accompanying plans and sections of lines 21, 22, 23 and 24 show the anomalous area clearly and the sketch of March 1989 shows drill hole No.7 under line 22 to have encountered greywackes and graphitic slates with very little mineralization. It is interesting to note that the dacite I mapped extending northeast from this anomaly is more likely an extension of the greywackes as is the dacite in claim 928121 some 4000 feet along strike.

In conclusion the anomaly is unmineralized graphitic slates.

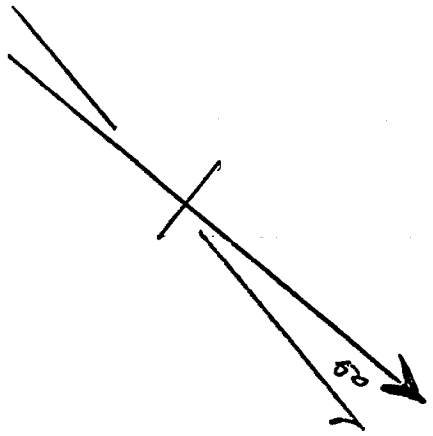
Anomaly No.7 near Fault Lake. A sharp local drop in magnetics (in the order of 1000-2000 gammas) on lines 53E and 54E just up from the lake was investigated last summer. The bark geochemical samples were very low although a little unusual arsenic and barium were noted.

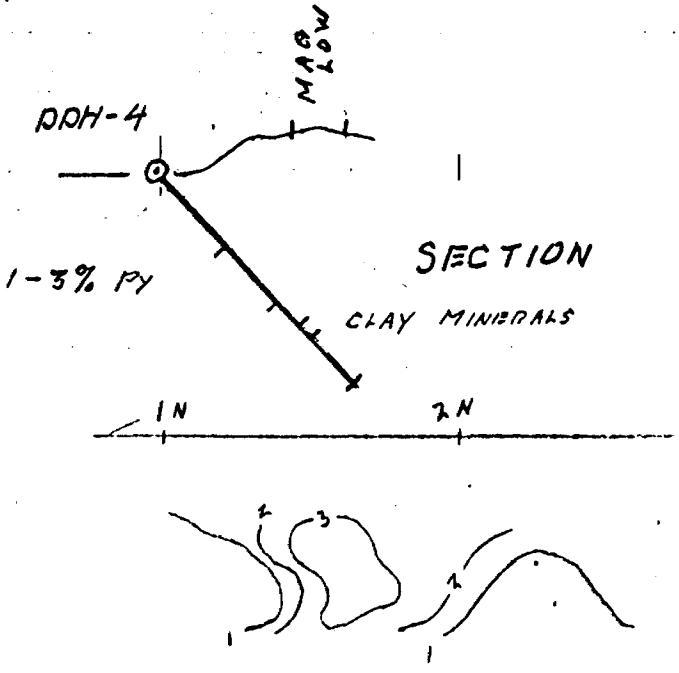
The dipole-dipole I.P. got a clean anomaly over this zone on both lines 53E and 54E. Hole No.4 was drilled into the better I.P. anomaly on line 53E. It got minor sulphides (2% to 3% pyrite) over short sections of 3 to 10 feet from 104 to 186 feet in the hole. This projects to be under the I.P. anomaly on line 53E at 150N. The sharp drop in magnetics seems to be explained by the various sections of sheared and severely altered gabbro that follow this at 215-229, 233-238, 281-289 and 295-300. The inherent magnetite of the normal gabbro has been destroyed, altered to clay minerals and feldspar with a sharp drop in magnetics.

Hole No.5 was drilled under line 56E where there were two branches of I.P. anomaly and magnetic lows in well-defined zones. From 475 to 571 in the hole there is a major carbonate shear zone some 60 feet in true width, of light grey altered gabbro lacerated with black and white stringers and threads of chlorite and biotite and quartz carbonate stringers. There were various sections of 1 to 6 feet with some pyrite



PLAN



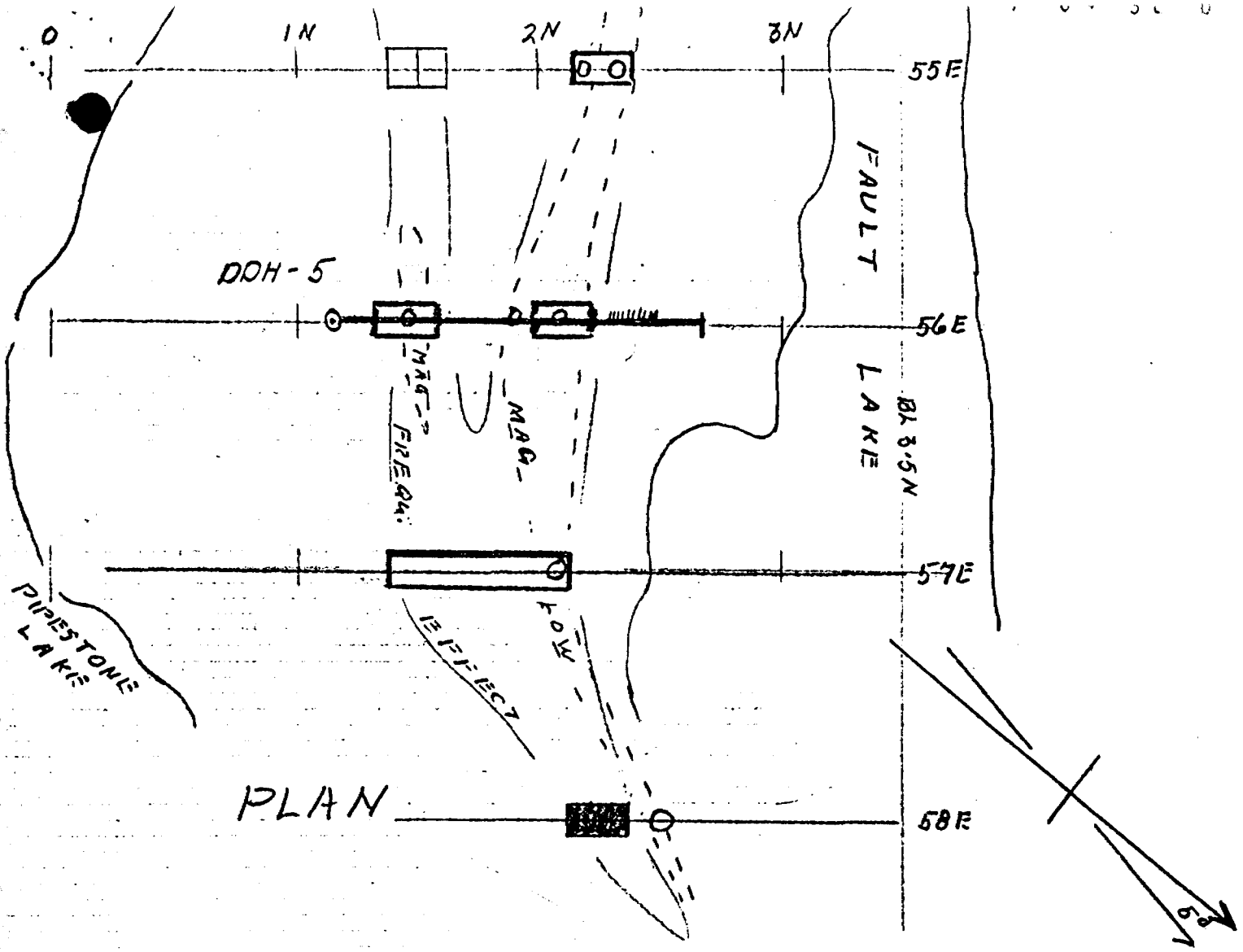


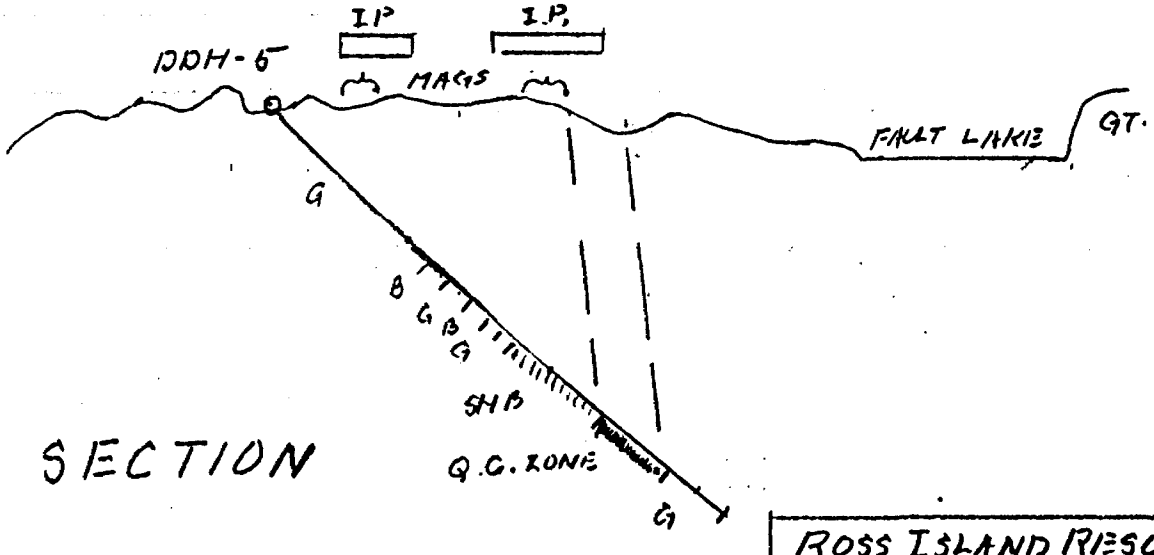
FREQUENCY EFFECT IN SECTION

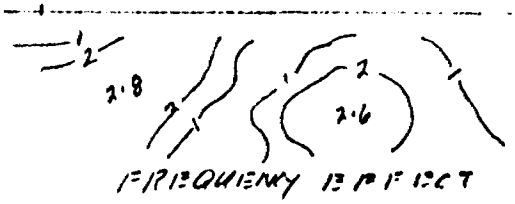
ROSS ISLAND RESOURCES INC.
PIPESTONE LAKE

DDH-4 INTO ANOMALY-7
(I.E. THE CUMMINGS MAG. LOW)

SCALE 1/2500 OR 1 IN. x 200 FT.
BY MICHAEL OGDEN MARCH 89







ROSS ISLAND RESOURCES INC.
PIPESTONE LAKE

DDH-5 INTO ANOMALY-7

SCALE: 1/2500 OR 1 IN. = 200 FT

BY: MICHAEL OGDEN MARCH 89

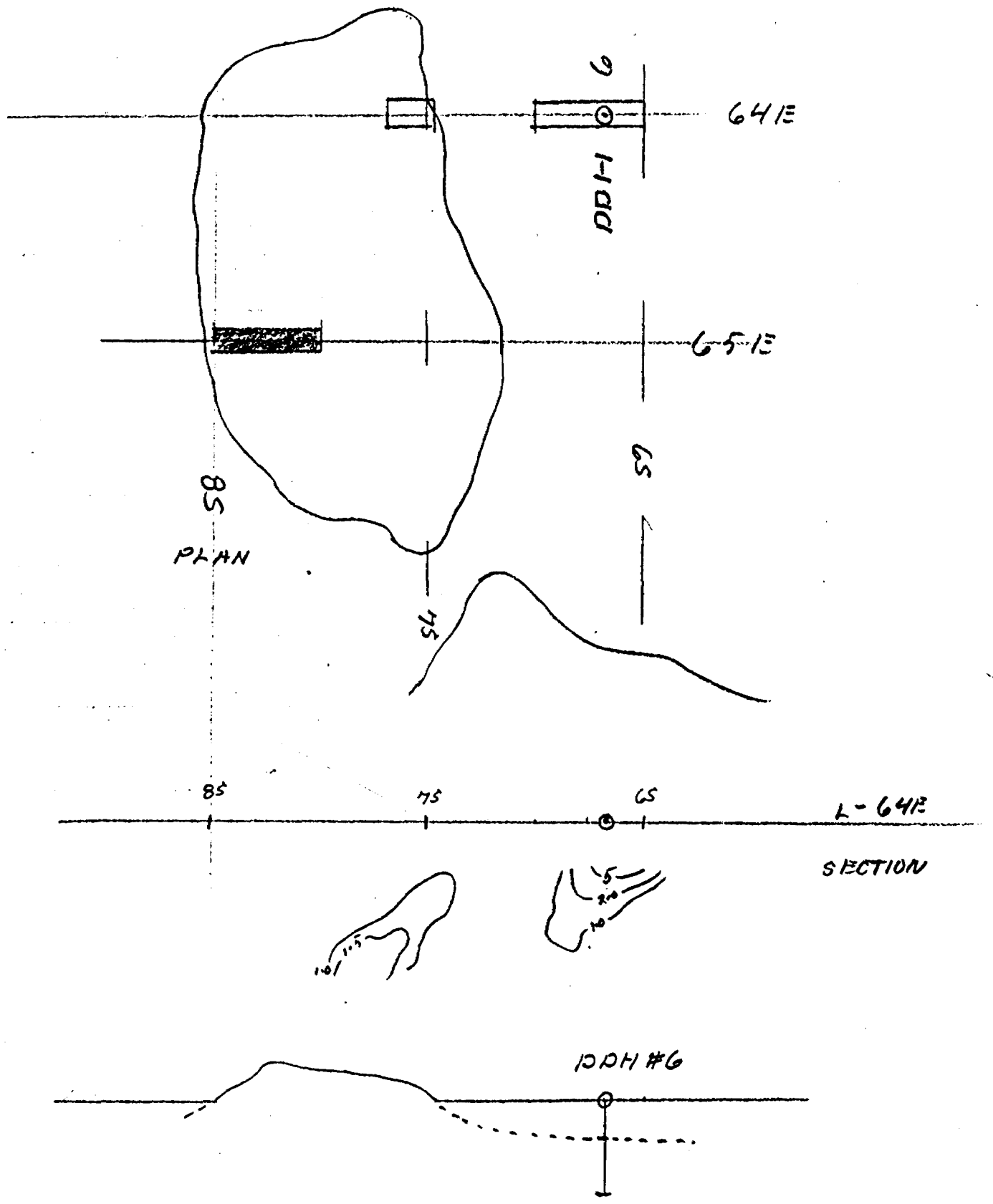
(usually 1% to 2%). This appears to be the I.P. anomaly and the magnetic low above, in low ground, giving the zone a dip toward grid north of about 84°. The carbonate zone looked so good it was assayed for gold in ppb every 5 feet. The results were usually less than 5 ppb with a few of 10. The anomaly nearer the collar is more difficult to detect although the sulphides around 30, 40, 50 and 60 feet may be the I.P. zone and the combined alteration probably produced the drop in magnetics. It is noteworthy that the one-half foot of quartz-carbonate vein breccia with 6% pyrite at 66 feet in the hole assayed 0.05 ounces of gold per ton by the metallic gold method, the +100 mesh being 0.085 and the -100 being 0.047 ounces of gold per ton. This is one of the best assays of the whole drill program.

It is now clear that the main fault along the granite contact was not reached. It would be another 500 feet or so deeper in the hole.

In conclusion the main fault zone remains the most likely mineralized zone, for the best mineralization on the Young property is next to granite and the interesting float sample (1500 ppb Au) is of granite and gabbro found near 3N on line 54E.

Anomaly No.9 is a zone of mediocre chargeability found between the island and the nearby shore on lines 65 and 66. One test of dipole-dipole I.P. was run from the shore out past the point of the island which is roughly along line 66E. No frequency effects were found.

Anomaly No.10 is found around the little island at 700S to 800S on lines 64E and 65E in claim 940157. Some weak gradient I.P. anomalies near the island were checked in detail by dipole-dipole. The accompanying plans and I.P. sections show that there are now three zones of frequency effect that should be investigated. Two of them, viz. 7S on 64E and 7.75S on 65E are on land with good outcrop and can be easily checked.



ROSS ISLAND RESOURCES INC.
DISTONE LAKE

DDH-6 INTO ANOMALY 10

SCALE: 1 IN = 200 FT OR 1/2500

BY MICHAEL OGIDEN MAY 89

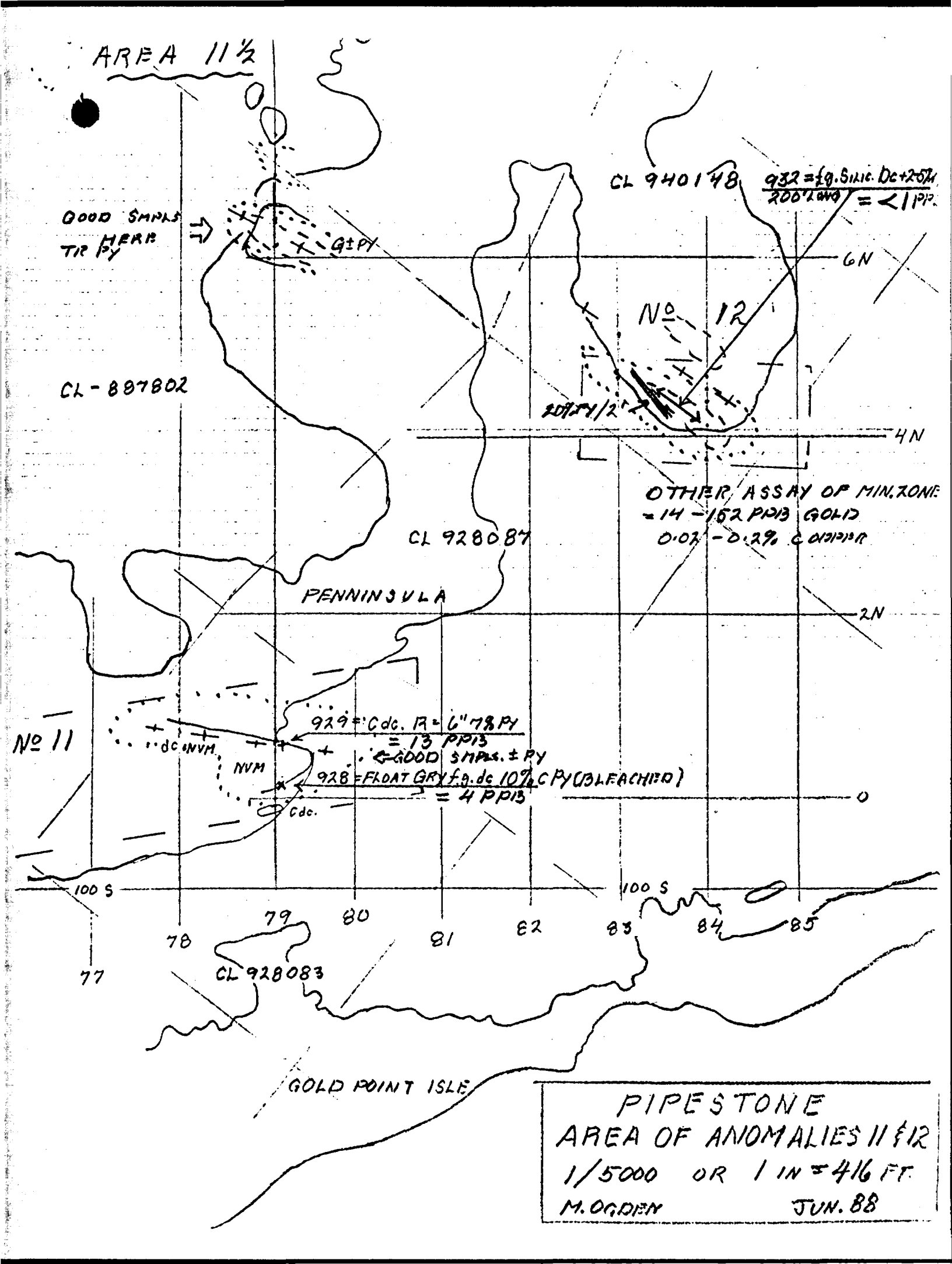
The third is at 6.25S on line 64E which is 200 feet offshore in 55 feet of water and could be probed only by drill hole. As the anomaly appeared to be in a rather flat dip towards the island a vertical hole was planned through the middle of it. The hole encountered fine sandy clay from 55 to 135 feet. At that depth it was realized we were below the depth of penetration of the dipole-dipole I.P. and therefore the anomaly must have been caused by the clays through which we had been drilling. The hole was abandoned. Conductive clays are common in this whole region.

In conclusion remaining two anomalous zones on the surface of the island should be examined this summer. One of them has a coincident resitivity low and magnetic low which of course suggest sulphides and alteration (i.e. at 7.75S on line 65E).

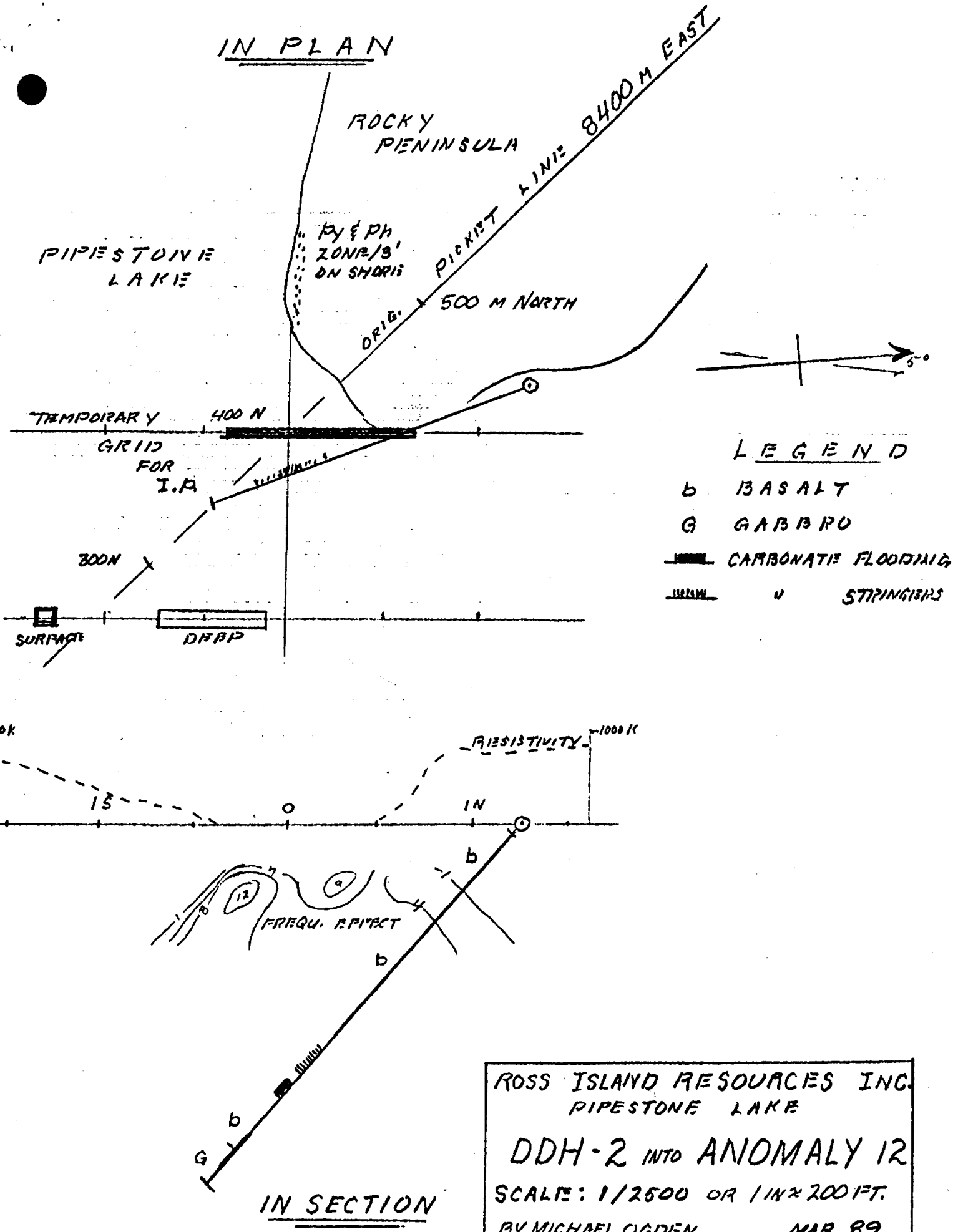
Area or Anomaly 11-1/2 is the area of Dash Bay (i.e. the water portion of claims 887802, 887803, 940146 and 940147). It is that portion of the main fault zone and gabbro-granite contact that lies between Dr. Young's ground and the recently staked Helena Lake property to the north-east. No anomalies were known within it, but a thorough check by dipole-dipole seemed worth the additional cost.

Lines 75, 76, 77, 78 and 79E were checked from about 5N to 9N. Nothing of interest was disclosed except perhaps that the low resistivities show a good layer of conductive clays to be on the lake bottom.

Anomaly No.12 is the extension of the old copper showing and burn near 5N on line 84E on the peninsula. I have had rock samples here, which assay 152 ppb gold and up to 0.2% copper over a foot or two. The gradient array I.P. found a build-up of frequency effects on line 84E from 5N toward 4N at the tip of the peninsula. The summer of 1988 disclosed a high magnetic and self potential anomaly over the known mineralization and alongside. The dipole-dipole check of January 1989 found a strong



PIPESTONE
AREA OF ANOMALIES 11 & 12
1/5000 OR 1 IN = 416 FT.
M. OGDEN JUN. 88


IN PLAN
ROCKY PENINSULA
PICKET LINE 8400 M EAST
Py & Ph ZONE/3' ON SHORE
PIPESTONE LAKE
ORIG.
500 M NORTH
TEMPORARY GRID FOR I.P.
400 N
300N
SURFACE
DRILL
LEGEND
b BASALT
G GABBRO
CARBONATE FLOODING
STRINGERS
1000 K
RESISTIVITY
1000 K
15
0
IN
FREQU. EFFECT
b
b
G
IN SECTION
ROSS ISLAND RESOURCES INC.
PIPESTONE LAKE
DDH-2 INTO ANOMALY 12
SCALE: 1/2500 OR 1 IN = 200 FT.
BY MICHAEL OGDEN
MAR 89

frequency effect 200 feet beyond the end of the showing, under water, and a weak indication of the same zone at depth another 300 feet beyond that.

The strong anomaly was drilled as shown on the accompanying plan and sections of DDH 2 into anomaly 12. A few bands of sulphide were encountered in the basalt on the way down to the main zone, which extended from 503 to 612 feet. It consisted of 50 feet of a multitude of quartz carbonate stringers and threads, often with a skim of pyrite on the slips, followed by 25 feet of almost unaltered basalt, then another 25 feet of carbonate flooding even more than the first 50 feet and also with the odd skim of sulphides. This is the same mineralized zone as exposed on surface but it's nature has changed. It is wider, some 70 feet in true width versus 2 to 5 feet of sulphides at surface. It is more sheared and heavily carbonated and no heavy sulphides, just some skim of sulphides on the slips. The asays are poorer than on surface.

In conclusion it seems the hole went under the best mineralization which is probably between 50 and 150 feet below the surface of the lake above hole 2. Such a configuration would allow for an elliptical cylinder shaped zone, perhaps 300 feet long x 25 feet wide to plunge at 20^{o}-25^{o} to the east. This might (assuming 10 cubic feet per ton, i.e. fairly heavy sulphides), let a zone of

$$\frac{300 \times 25 \times 1}{10} = 750 \text{ tons per vertical foot}$$

plunge easterly out under the lake but above hole 2.

Anomaly 12-1/2 is a designation given to an old enigma of the property. During the summer of 1981 a helicopter-borne V.L.F. survey was done over the Dash Lake Resources claims of which the present Pipestone claims form a part. Their anomaly No.6, a cross structure, extends southeast from the wide part of Helena Lake towards our anomaly 13. I have shown it as a "fault?" on my geological map although I have no direct evidence of such a thing. Hence a single dipole-dipole line of check

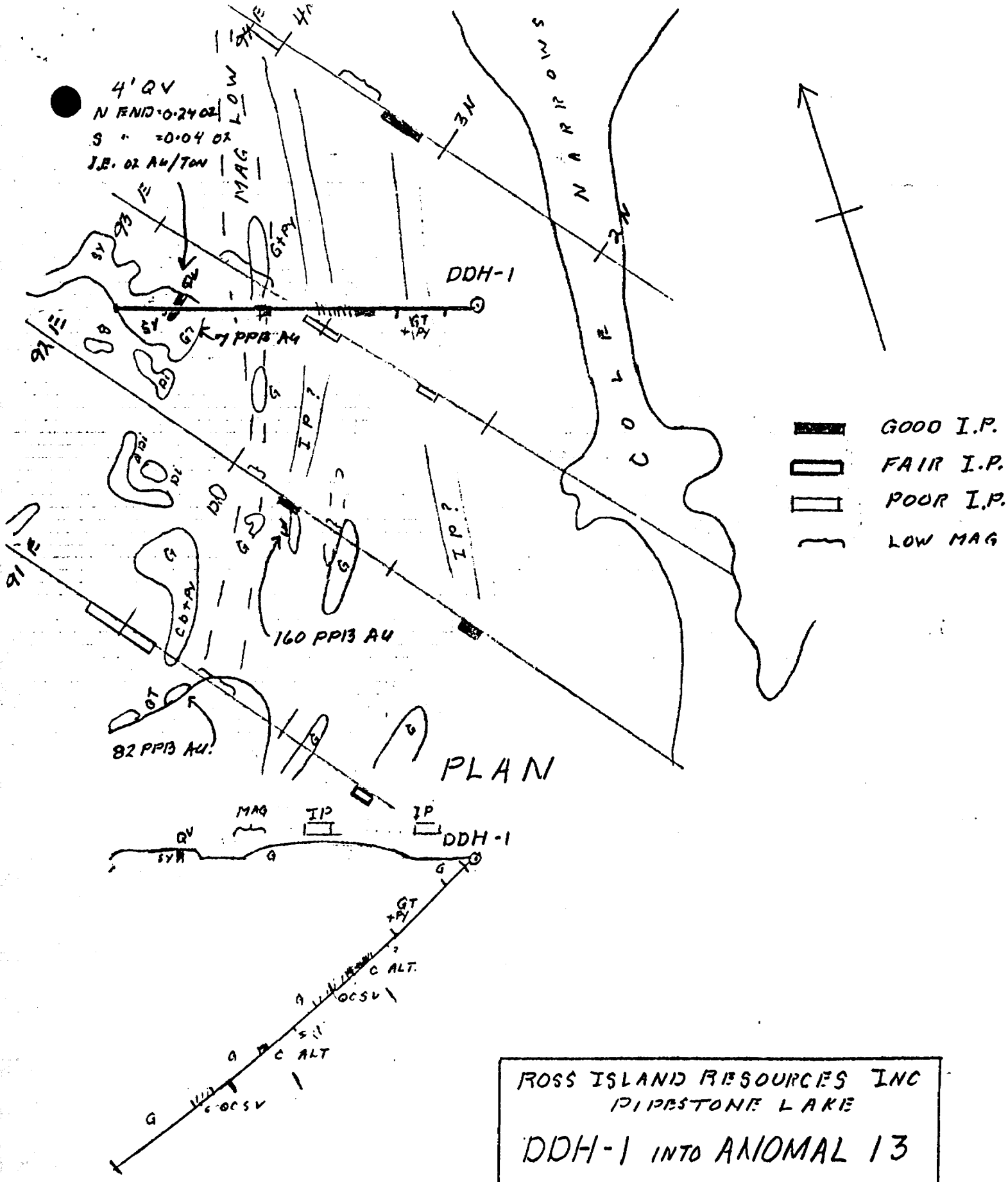
surveying was run from the little island at the junction of claims 940152, 928072 and 928073, toward the southwest for 350 metres (almost 1200 feet).

The results - a blank - are detailed on the I.P. section, "Anomaly 12.5".

In conclusion I think it safe to say that neither this airborne V.L.F. anomaly nor any fault exists along the above general trend.

Anomaly No.13 beside Cole Narrows, on lines 91E to 95E from 2N to 4N. A rusty shear zone was found two summers ago that assayed up to 160 ppb gold. Last summer a 4 foot wide quartz vein was found that assayed 0.24 ounces gold per ton at one spot and 50 feet away it ran 0.043. Both assays are by particulate gold analysis. Many quartz veins on this property and others nearby have been assayed and they almost always come back nil or <0.001 ounces.

It is clear from the magnetic trend of low values that an altered zone extends from 1N on 90E through 3N on 92E to almost 6N on 95E. What is most interesting is that all the better gold values have been in or close to this band of low magnetics (see accompanying sketch "DDH-1 into Anomaly 13"). What connection, if any, exists between the I.P. results and gold is much less clear. DDH No.1 went through a completely unexpected granite from 67 to 189 feet in the hole or about 85 feet true width. This plots to be directly above the interpreted location of the south I.P. anomaly. Furthermore this granite does carry 1% to 3% disseminated pyrite which is in the order of the I.P. readings of 2 and 3. The south edge of the granite had a 2.3 foot siliceous zone with quartz carbonate flooding that assayed 0.023 by particulate gold. The +100 mesh ran 0.137 ounces per ton and the -100 mesh ran 0.018 which at weights of 44 and 1018 grammes respectively gives a true value of 0.023 ounces per ton.



ROSS ISLAND RESOURCES INC
PIPESTONE LAKE

DDH-1 INTO ANOMAL 13

SCALE: 1/2500 OR 1 IN. ≈ 200 FT.

BY MICHAEL OGIDEN MAR. 89

There is another section of 1% to 5% pyrite from 344 to 362 feet in the hole which might be the other I.P. zone. The 4 foot wide quartz vein on the surface with the interesting gold values was not exactly encountered in the hole, nor were the syenite or granitic rocks surrounding the quartz vein at surface. However, at 545 feet in the hole there was 5 feet of multiple quartz veins at 60°-80° to the core with 4-10% pyrite along the edge of the veins. It ran a blank in gold. This might be the same zone, but in gabbro rather than granite and some 350 feet deeper its nature and gold content has changed.

The heavily carbonated section of gabbro from 244 to 325 is probably the magnetic low that extends through the area. It bears no apparent relation to the gold vein, except being nearby.

RECOMMENDATIONS RE ANOMALY 13

1. The quartz vein should be channel sampled at 10 foot intervals, i.e. 6 samples over 4 to 5 feet. This will establish grade and continuity.

2. The vicinity of the quartz vein should be prospected in detail for other veins, for they do not seem to be detectible by I.P. or geochemistry.

3. An accurate (1 gamma) magnetometer should be tested over the quartz vein. If it clearly defines the vein, the method can be used to locate similar nearby veins under shallow overburden.

SPECIFIC CONCLUSIONS

1. Both the gradient array induced polarization method and the dipole-dipole technique have an extraordinary ability to detect minor sulphides and some clay mineral forms of alteration, but as both

phenomena are quite common and rarely carry gold mineralization, using I.P. as a basic prospecting tool leads to "anomalous indigestion" and expensive follow-up programs.

2. The biogeochemical approach of sampling forest litter in areas of near outcrop (less than 10 or 15 feet of overburden) or tag alder leaves in shallow swamps (again 10 to 15 feet maximum) seems to be the least expensive method of basic gold prospecting other than visual examination. The anomalous areas can be then examined and investigated by trenching, detail magnetometer and/or dipole-dipole I.P.

3. The concept of examining the glacial till for grains of gold has been investigated. It is best used in areas of deep overburden (50 to 150 ft) where surface geochemistry would be hopeless. A few test pits inthe areas of deeper overburden like anomaly 7 might be worthwhile as a guide to future exploration.

   The cost of each pit and sample of 10 to 25 lbs is close to $200 or $300 for the pit and between $30 and $100 for analyses, depending on the quantity and quality of the gold grains in the sample.

4. Initial drill holes into specific targets should seldom be collared more than 50 feet from the target so that 100-150 foot holes are sufficient for the first test. Then, if still of any interest, a deeper, steeper hole can be placed nearby for 500 or 600 more feet. Thus 600 or 800 feet might well be done into one target but there would be two holes and no chance of undercutting it with one deep hole.

SUMMARY RECOMMENDATIONS

1. Re-examine and sample biochemically (forest litter) areas 0 through 1 and 2, and No.7, that is, along the granite-gabbro fault zone where not under water.

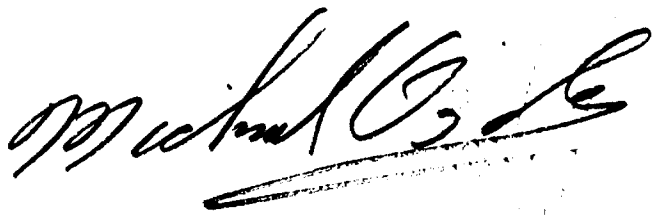
2. Check out the I.P. anomalies on the island at Anomaly No.10.

3. Re-examine area 13 for quartz veins with the aid of a good magnetometer.

ESTIMATE OF COSTS

The forest litter sampling, using 100 foot spacing and lines 1000 ft (300 m) apart, plus geological mapping would take 3 to 4 days for the 100 to 120 samples. This would cover the areas numbered 0, 1, 2 and 7. Then the island No.10 and the prospecting of No.13 would add a few more days. Total of about a week for a cost of $5,500 of which, about 70% is analytical costs.

Respectfully submitted,



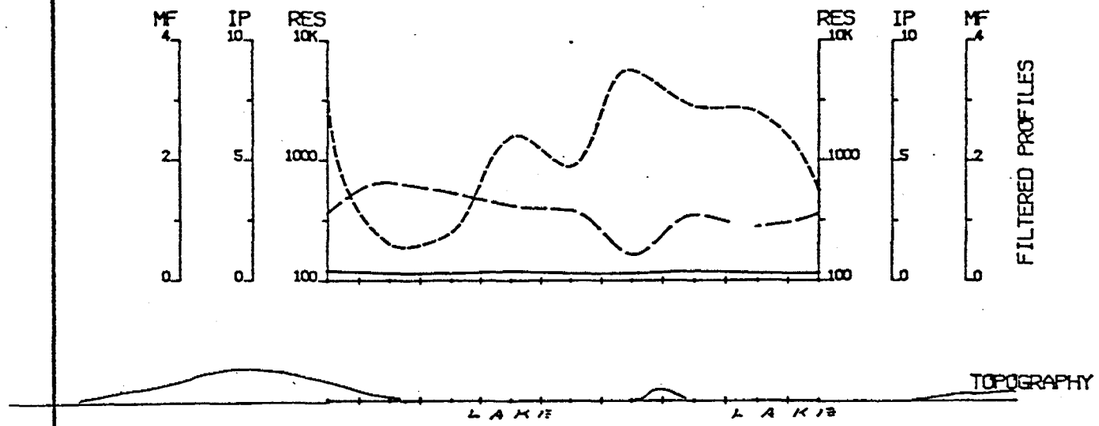
Michael Ogden, B.A.Sc., P.Eng.

SUMMARY OF COSTS INCURRED
BY
ROSS ISLAND RESOURCES INC.
IN CONDUCTING
THE FIELD AND OFFICE PORTIONS OF THIS REPORT

Mertens & MacNeil Ltd. Dipole-Dipole I.P. Check Surveys	$30,500.00
Dr. Norman Paterson of Paterson, Grant & Watson Ltd. Consulting - January to May inclusive	2,145.25
Activation Laboratories Ltd. Assaying during March and April.	2,473.25
Michael Ogden Report Preparation - April and May	3,650.00
TOTAL	$38,767.50

All these costs have been paid as of JUNE 2 **1989.**

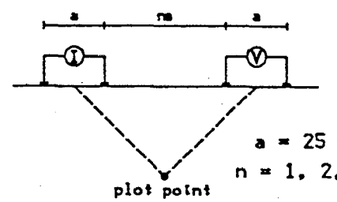
Michael Ogden, B.A.Sc., P.Eng.



GEOSOFT (tm) Software for the Earth Sciences, Toronto, Canada

Line 3 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

		filter
Resistivity	————	*
Polarization	————	* *
Metal Factor	- - - - - -	* * *
		* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

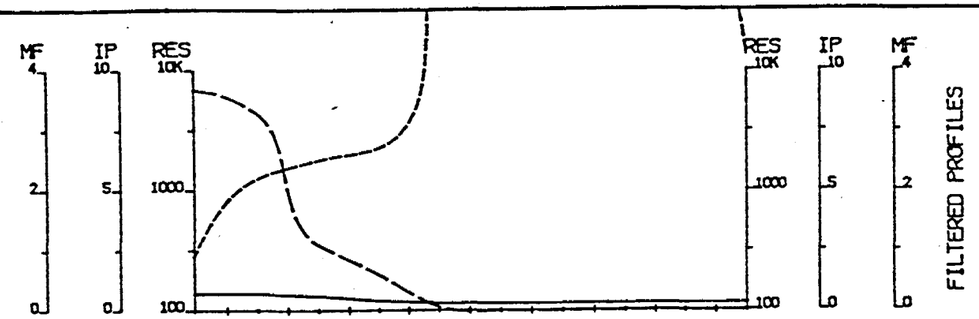
ROSS ISLAND RESOURCES Ltd.

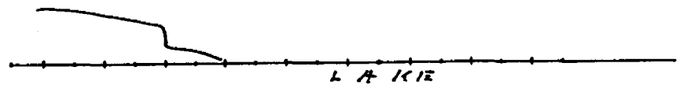
INDUCED POLARIZATION SURVEY

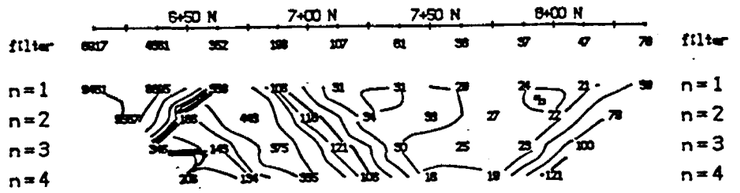
Pipestone Lake Anomaly O
Emo , Ontario

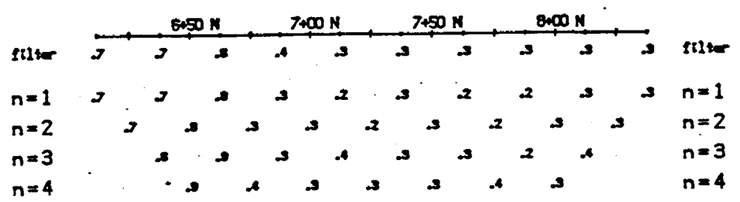
Date: <Feb/89> N.T.S.: 52 F/4
Interpretation by:
Scale: 1 : 2500

MERTENS & MacNEIL LTD

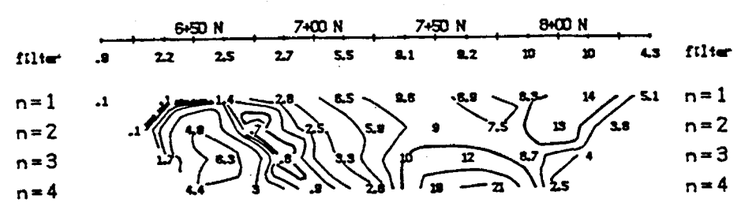






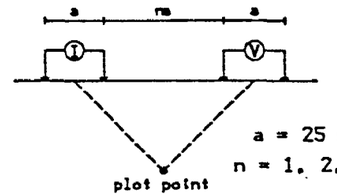


INTERPRETATION



Line 4 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

		filter
Resistivity	———	*
Polarization	———	* *
Metal Factor	———	* * *
		* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,....

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

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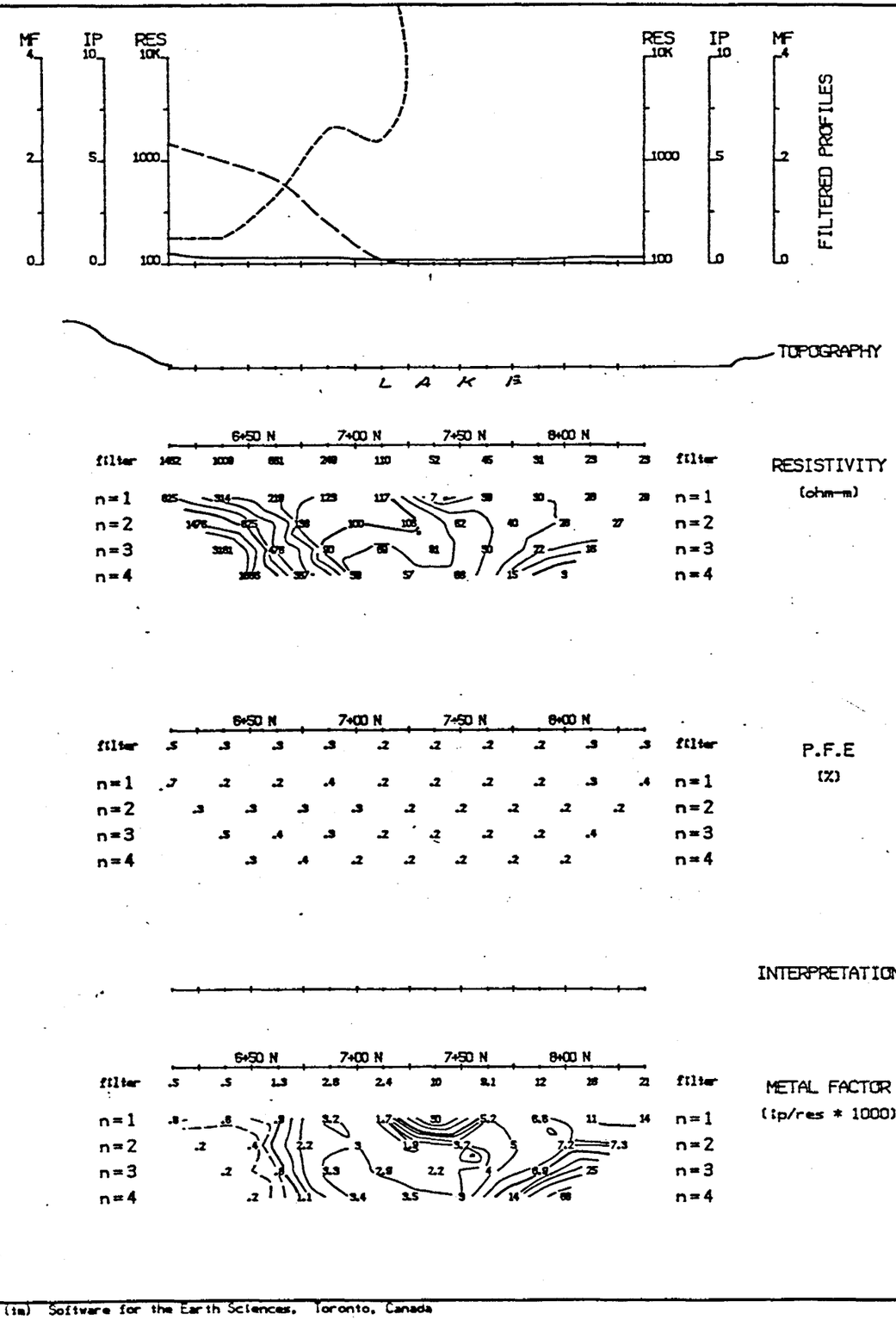
Pipestone Lake Anomaly O
Emo , Ontario

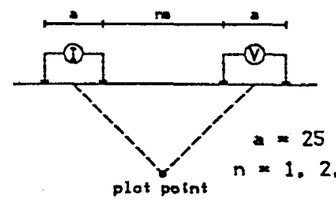
Date: <Feb/89> N.T.S.: 52 F/4
Interpretation by:
Scale: 1 : 2500

MERTENS & MacNEIL LTD



Line 5 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

		filter
Resistivity	———	*
Polarization	———	* *
Metal Factor	- - - - -	* * *
		* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10....

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
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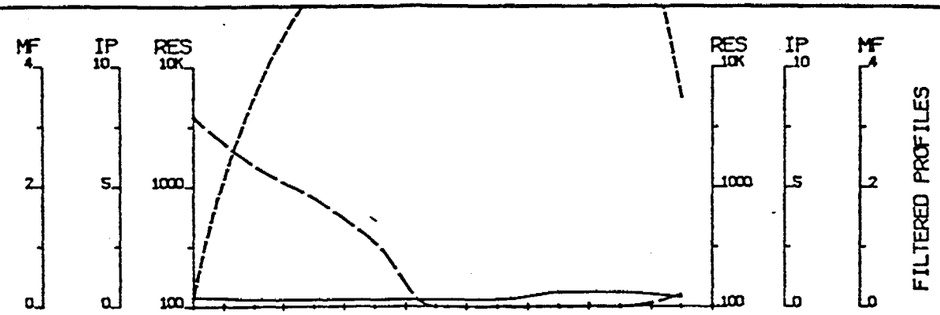
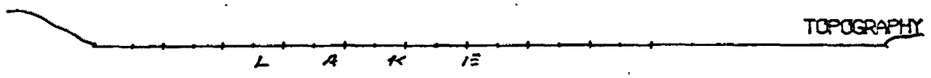
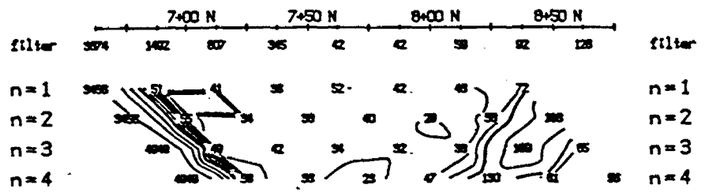
Pipestone Lake Anomaly O
Emo , Ontario

Date: <Feb/89> N.T.S.: 52 F/4
Interpretation by:
Scale: 1 : 2500

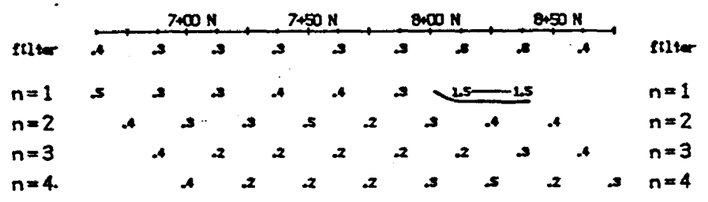
MERTENS & MacNEIL LTD





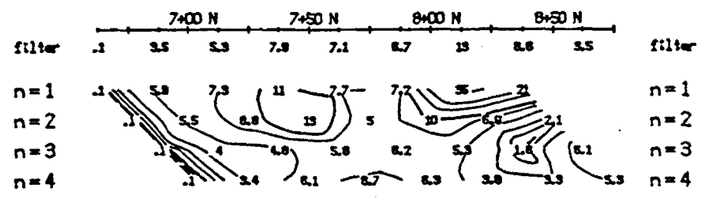


RESISTIVITY
(ohm-m)



P.F.E
(%)

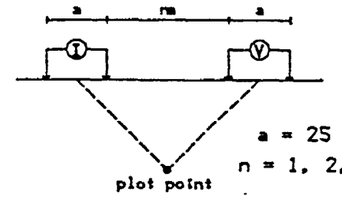
INTERPRETATION



METAL FACTOR
(fp/res * 1000)

Line 6 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

		filter
Resistivity	———	*
Polarization	———	* *
Metal Factor	- - - - -	* * *
		* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10....

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

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INDUCED POLARIZATION SURVEY

Pipestone Lake Anomaly O
Emo , Ontario

Date: <Feb/89> N.T.S.: 52 F/4
Interpretation by:
Scale: 1 : 2500

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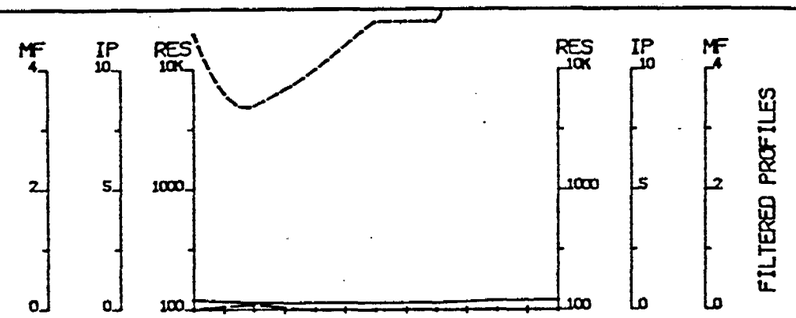
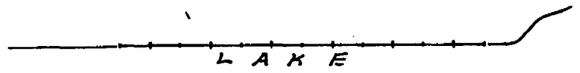
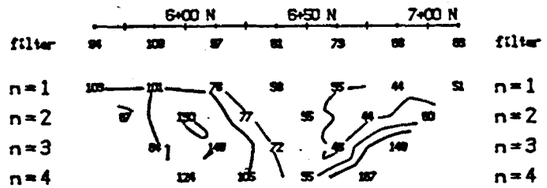
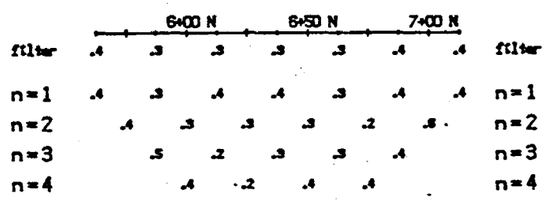




TOPOGRAPHY

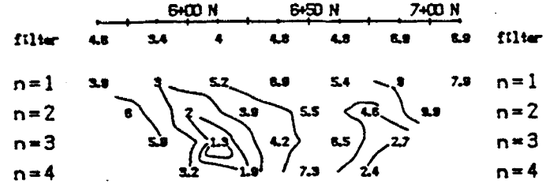


RESISTIVITY
(ohm-m)



P.F.E
(%)

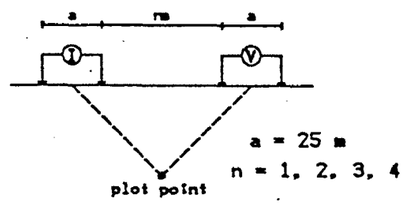
INTERPRETATION



METAL FACTOR
(ip/res * 1000)

Line 7 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

		filter
Resistivity	———	*
Polarization	———	* *
Metal Factor	———	* * *
		* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

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INDUCED POLARIZATION SURVEY

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Date: <Feb/89> N.T.S.: 52 F/4
Interpretation by:
Scale: 1 : 2500

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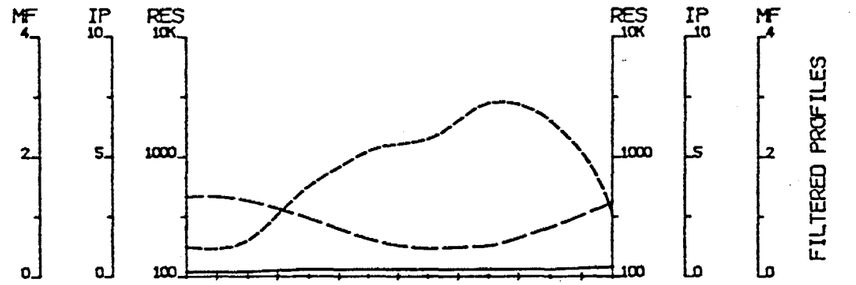
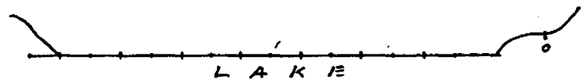
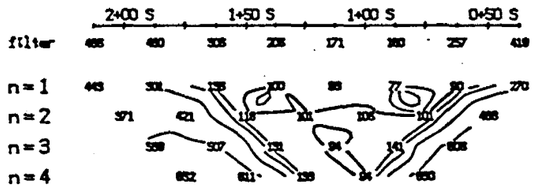
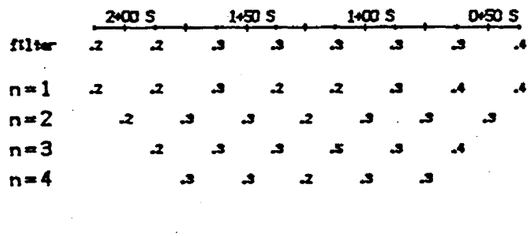




TOPOGRAPHY

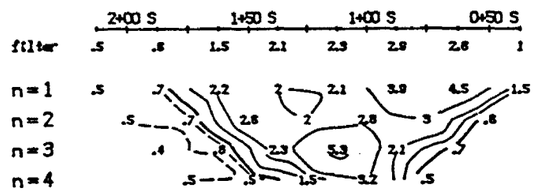


RESISTIVITY
(ohm-m)



P.F.E
(%)

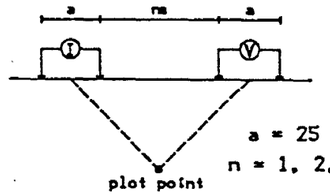
INTERPRETATION



METAL FACTOR
(ip/res * 1000)

Line 14 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

		filter
Resistivity	———	*
Polarization	———	* *
Metal Factor	- - - - -	* * *
		* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

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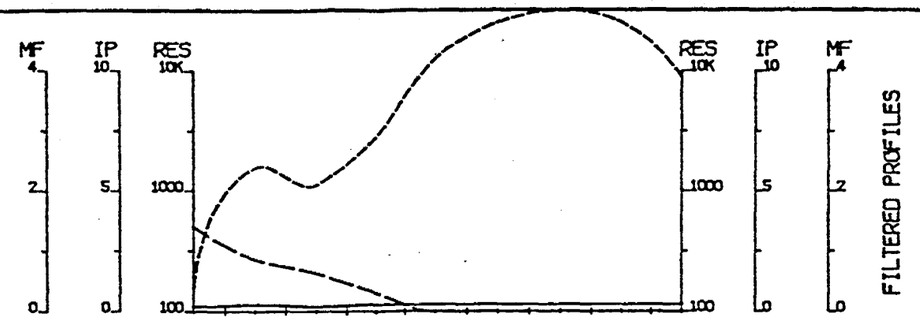
ROSS ISLAND RESOURCES Ltd.

INDUCED POLARIZATION SURVEY

Pipestone Lake Anomaly 2
Emo , Ontario

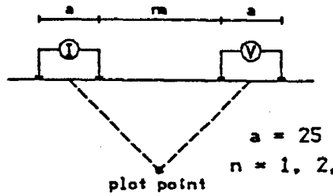
Date: <Feb/89> N.T.S.: 52 F/4
Interpretation by:
Scale: 1 : 2500

MERTENS & MacNEIL LTD



Line 15 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

		filter
Resistivity	———	*
Polarization	———	* *
Metal Factor	- - - - -	* * *
		* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,....

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

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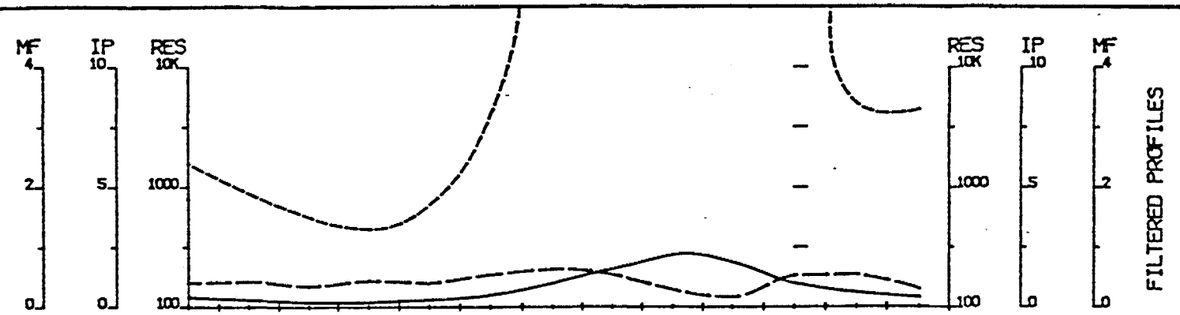
ROSS ISLAND RESOURCES Ltd.

INDUCED POLARIZATION SURVEY

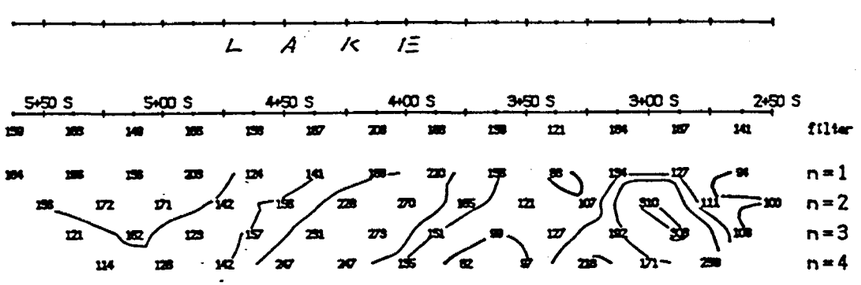
Pipestone Lake Anomaly 2
Emo , Ontario

Date: <Feb/89> N.T.S.: 52 F/4
Interpretation by:
Scale: 1 : 2500

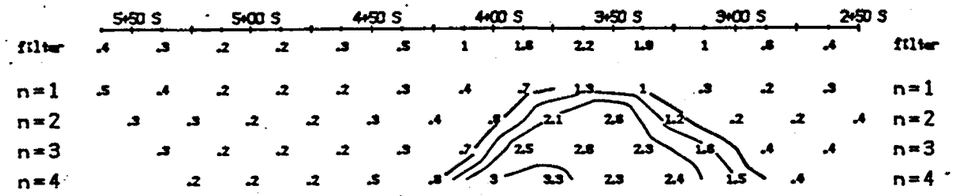
MERTENS & MacNEIL LTD



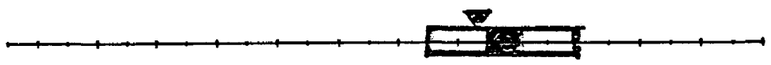
TOPOGRAPHY



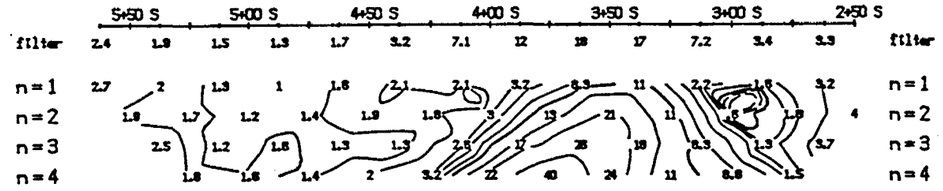
RESISTIVITY
(ohm-m)



P.F.E
(%)



INTERPRETATION

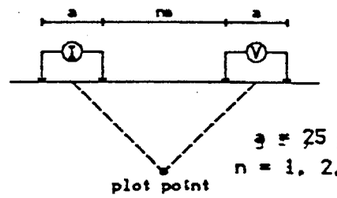


METAL FACTOR
(Ip/res * 1000)

GEOSOFT (tm) Software for the Earth Sciences, Toronto, Canada

Line 21 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

		filter
Resistivity	———	*
Polarization	———	* *
Metal Factor	- - - - -	* * *
		* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
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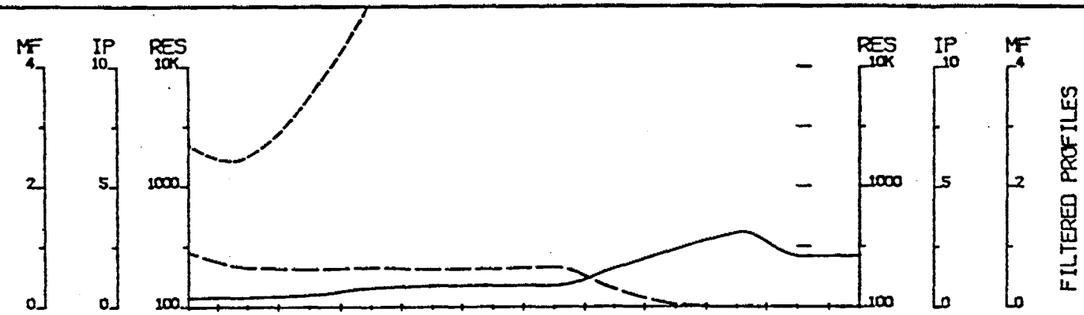
ROSS ISLAND RESOURCES Ltd.

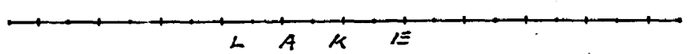
INDUCED POLARIZATION SURVEY

Pipestone Lake Anomaly 3
Emo , Ontario

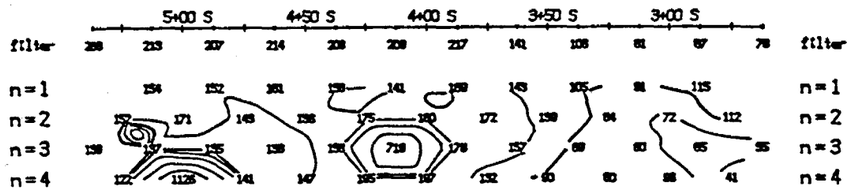
Date: <Jan/89> N.T.S.: 52 F/4
Interpretation by:
Scale: 1 : 2500

MERTENS & MacNEIL LTD

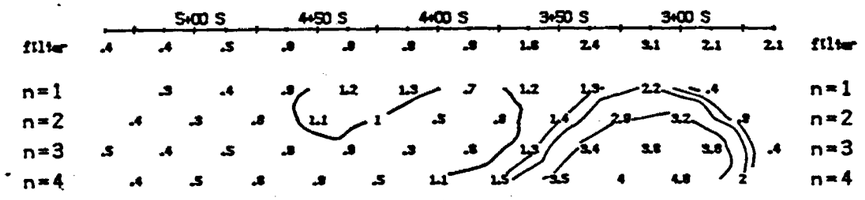




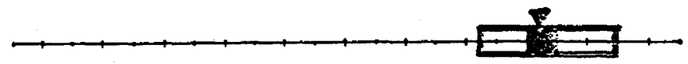
TOPOGRAPHY



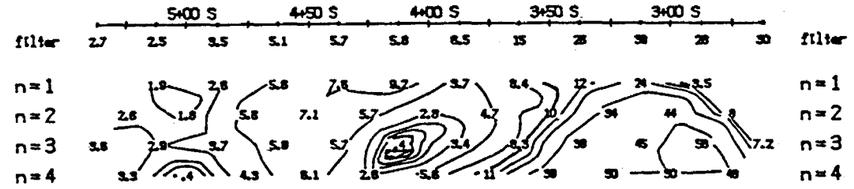
RESISTIVITY
(ohm-m)



P.F.E
(%)



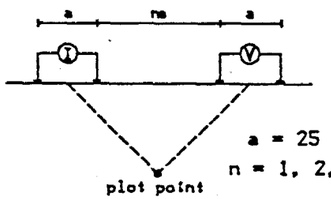
INTERPRETATION



METAL FACTOR
(ip/res * 1000)

Line 22 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

		filter
Resistivity	———	*
Polarization	———	* *
Metal Factor	- - - - -	* * *
		* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10....

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ⧈ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

ROSS ISLAND RESOURCES Ltd.

INDUCED POLARIZATION SURVEY

Pipestone Lake Anomaly 3
Emo , Ontario

Date: <Jan/89> N.T.S.: 52 F/4
Interpretation by:
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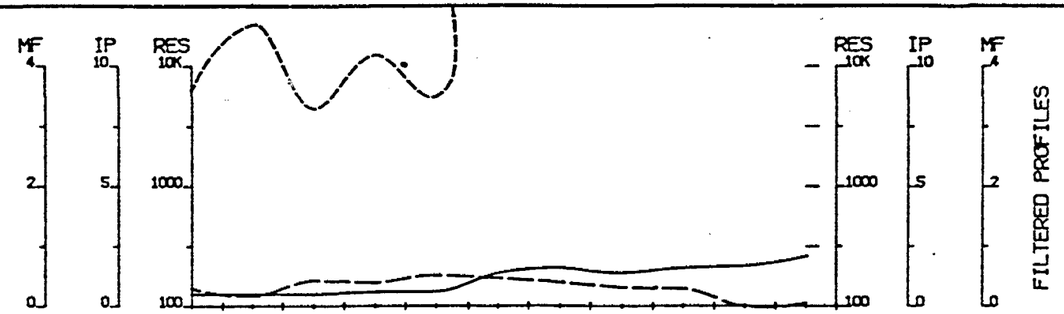
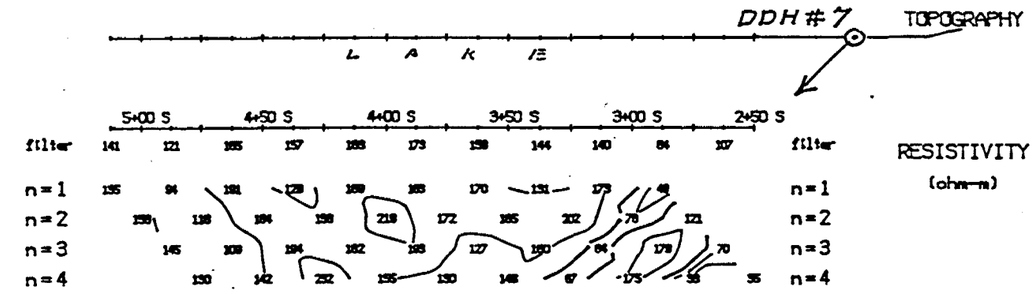
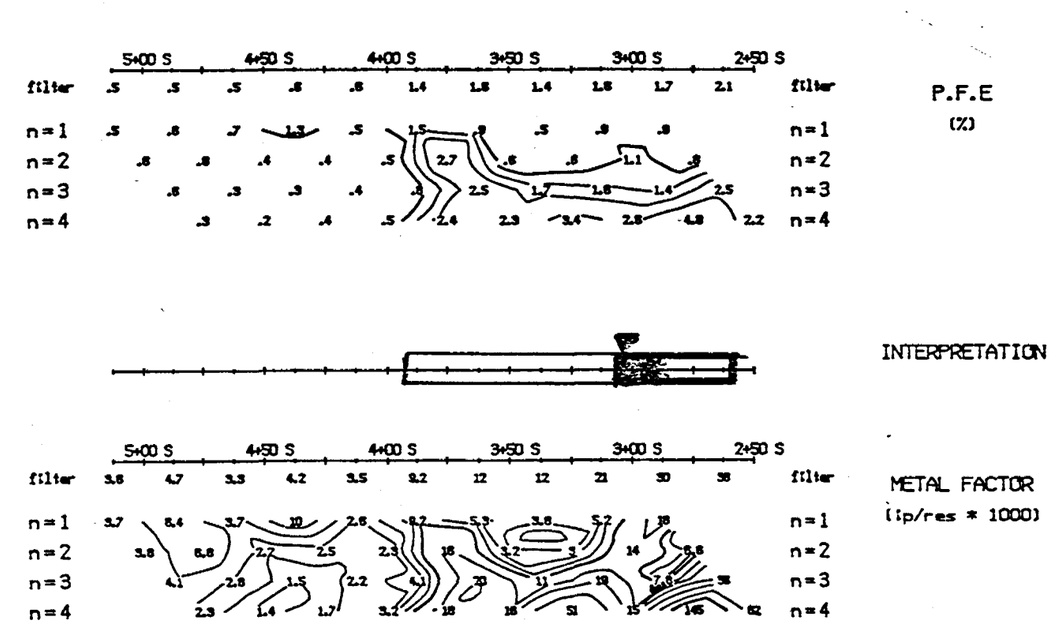
MERTENS & MacNEIL LTD

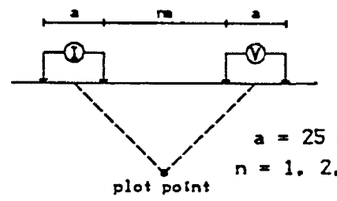






Line 23 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

		filter
Resistivity	————	*
Polarization	————	* *
Metal Factor	- - - - - -	* * *
		* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,....

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
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- ▼ Low resistivity feature.

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INDUCED POLARIZATION SURVEY

Pipestone Lake Anomaly 3
Emo , Ontario

Date: <Jan/89> N.T.S.: 52 F/4
Interpretation by:
Scale: 1 : 2500

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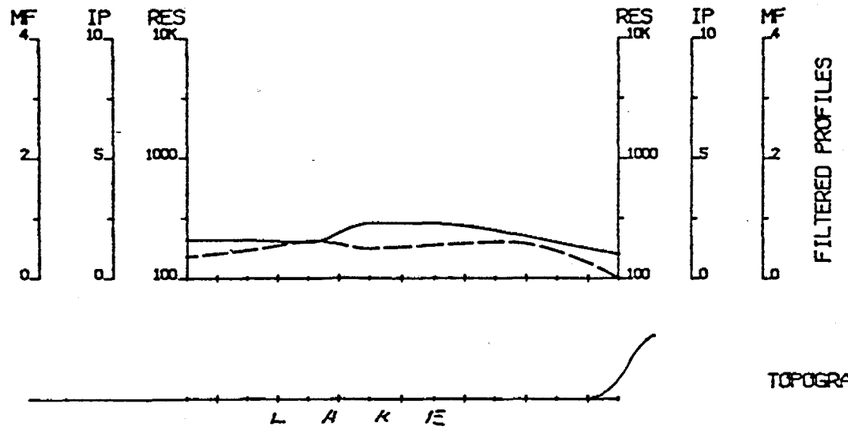
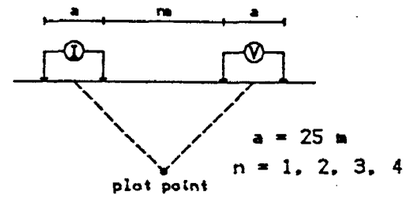


GEOSOFT (tm) Software for the Earth Sciences, Toronto, Canada

Line 24 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

	filter
Resistivity ———	*
Polarization ———	* *
Metal Factor - - - - -	* * *
	* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,....

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
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INDUCED POLARIZATION SURVEY

Pipestone Lake Anomaly 3
Emo , Ontario

Date: <Jan/89> N.T.S.: 52 F/4
Interpretation by:
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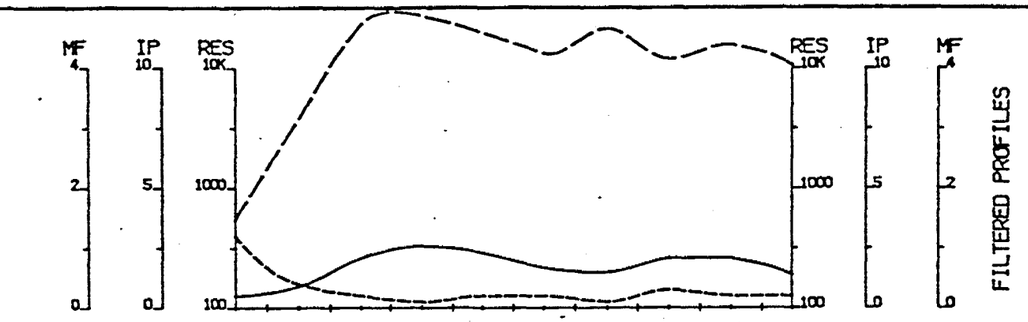
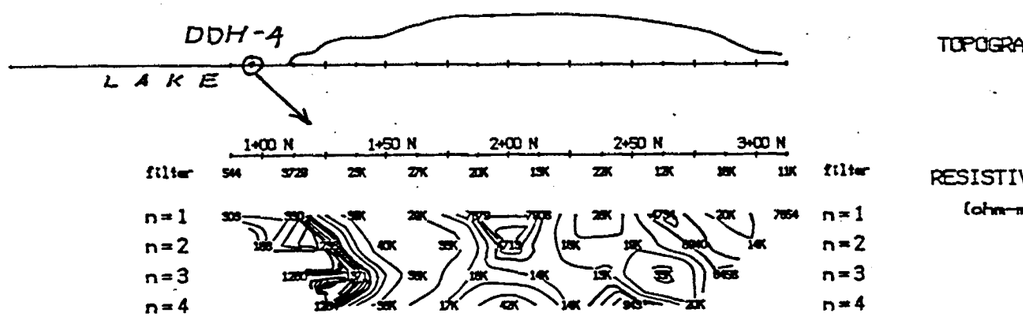
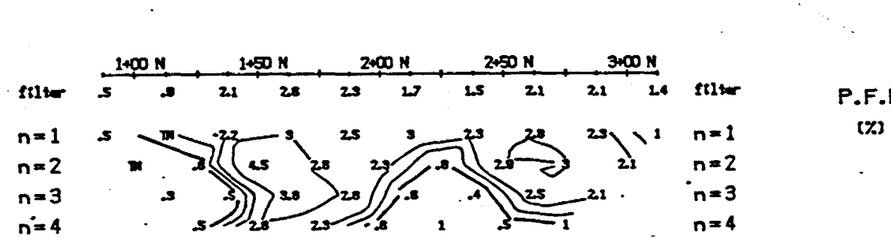


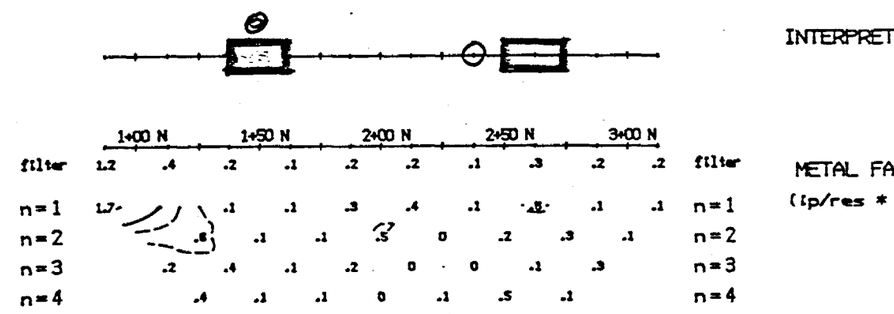


TOPOGRAPHY

RESISTIVITY
(ohm-m)



P.F.E
(%)

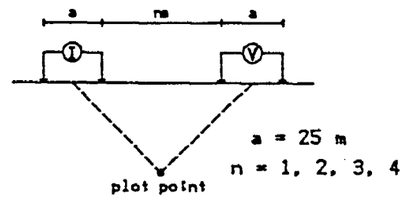


INTERPRETATION

METAL FACTOR
(ip/res * 1000)

Line 53 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

		filter
Resistivity	———	*
Polarization	———	* *
Metal Factor	- - - - -	* * *
		* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10....

Instrument: IPT1, IRV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.
- O MAG LOW

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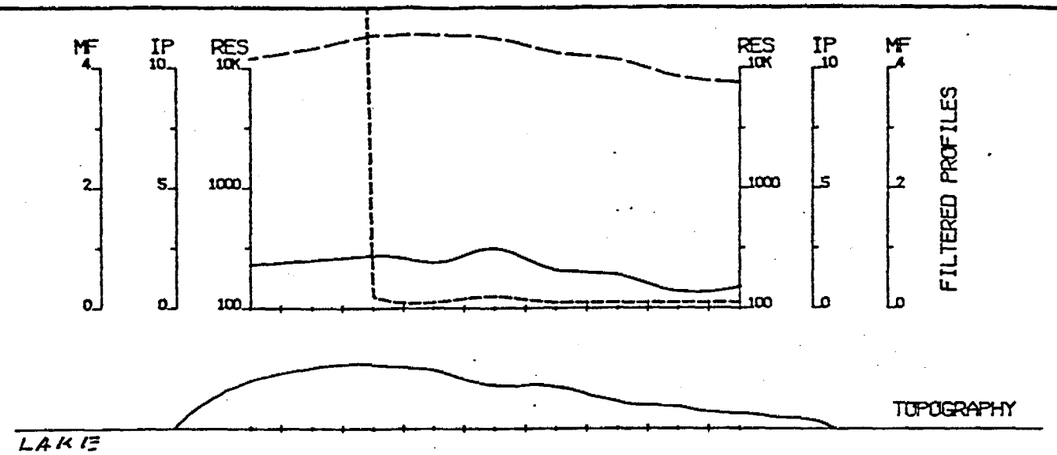
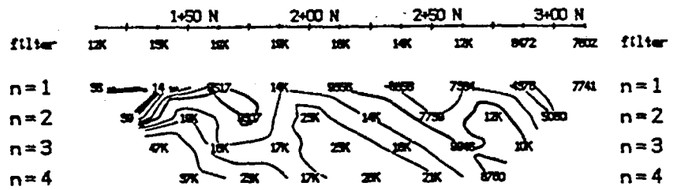
INDUCED POLARIZATION SURVEY

Pipestone Lake Anomaly 7
Emo , Ontario

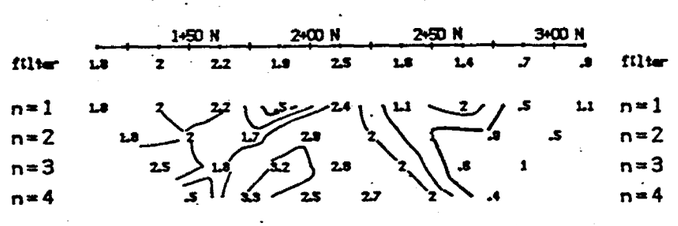
Date: <Jan/89> N.T.S.: 52 F/4
Interpretation by:
Scale: 1 : 2500

MERTENS & MacNEIL LTD



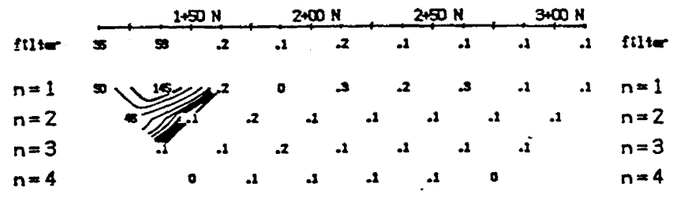


RESISTIVITY
(ohm-m)



P.F.E
(%)

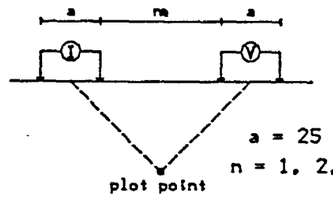
INTERPRETATION



METAL FACTOR
(ip/res * 1000)

Line 54 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

		filter
Resistivity	———	*
Polarization	———	* *
Metal Factor	- - - - -	* * *
		* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10....

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.
- O MAG LOW

ROSS ISLAND RESOURCES Ltd.

INDUCED POLARIZATION SURVEY

Pipestone Lake Anomaly 7
Emo , Ontario

Date: <Jan/89> N.T.S.: 52 F/4
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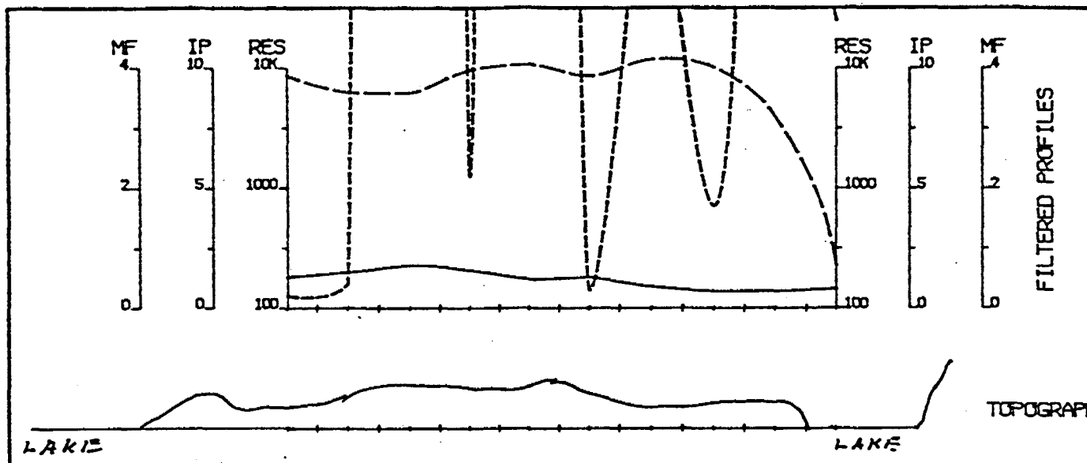
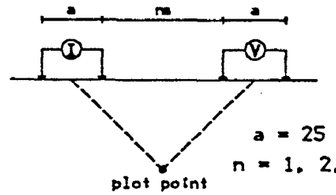


Line 55 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

		filter
Resistivity	———	*
Polarization	———	* *
Metal Factor	- - - - -	* * *
		* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10....

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

INTERPRETATION

■ Strong increase in polarization accompanied by marked decrease in resistivity.

◘ Well defined increase in polarization without marked resistivity decrease.

□ Poorly defined polarization increase with no resistivity signature.

▼ Low resistivity feature.

O MAG LOW

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INDUCED POLARIZATION SURVEY

Pipestone Lake Anomaly 7
Emo , Ontario

Date: <Jan/89> N.T.S.: 52 F/4
Interpretation by:
Scale: 1 : 2500

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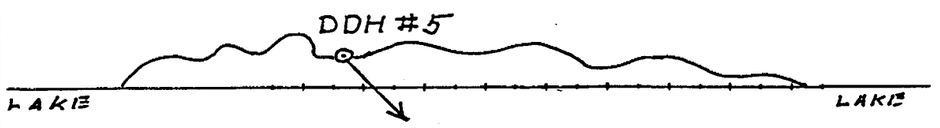
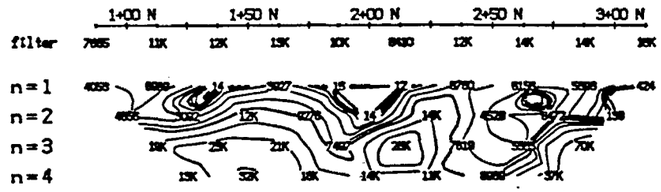
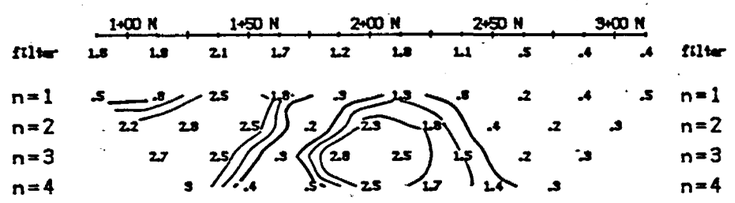


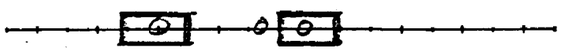
TOPOGRAPHY



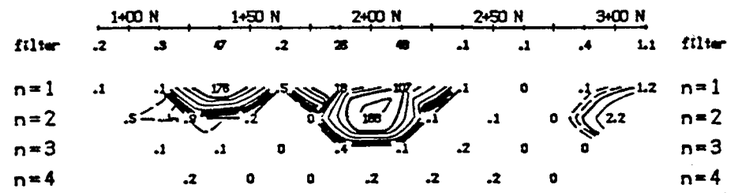
RESISTIVITY
(ohm-m)



P.F.E
(%)



INTERPRETATION

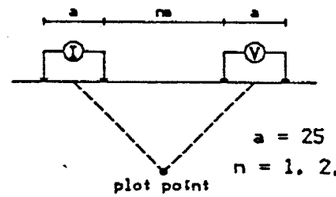


METAL FACTOR
(tp/res * 1000)

GEOSOFT (tm) Software for the Earth Sciences, Toronto, Canada

Line 56 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

		filter
Resistivity	———	*
Polarization	———	* *
Metal Factor	- - - -	* * *
		* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,....

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

INTERPRETATION

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- ◘ Well defined increase in polarization without marked resistivity decrease.
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- ▼ Low resistivity feature.
- o MAG LOW

ROSS ISLAND RESOURCES Ltd.

INDUCED POLARIZATION SURVEY

Pipestone Lake Anomaly 7
Emo , Ontario

Date: <Jan/89> N.T.S.: 52 F/4
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Scale: 1 : 2500

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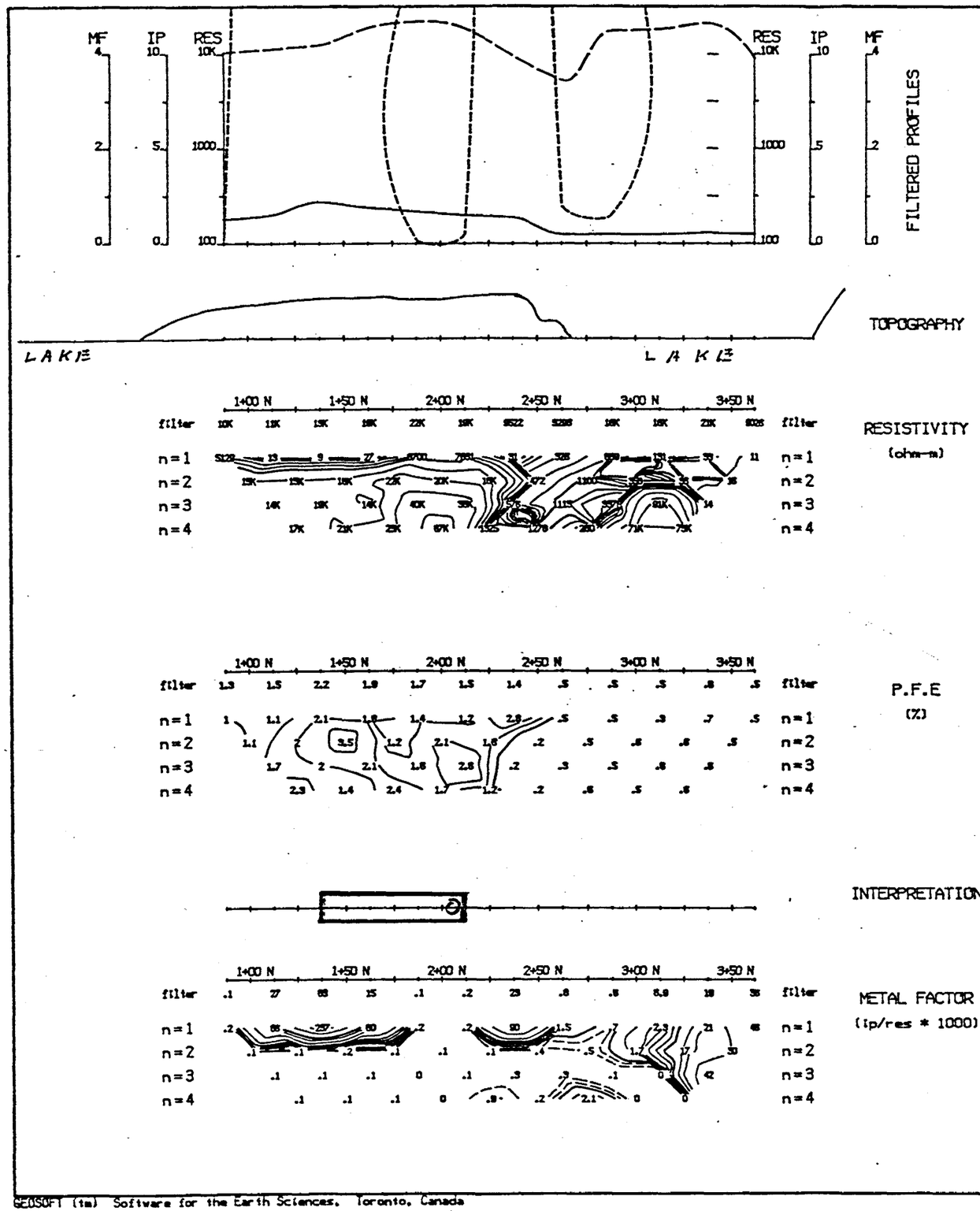
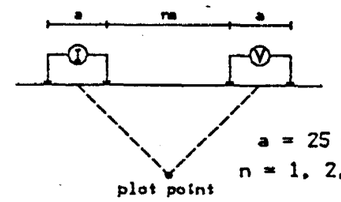


Line 57 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

		filter
Resistivity	———	*
Polarization	———	* *
Metal Factor	———	* * *
		* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
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Date: <Jan/89> N.T.S.: 52 F/4
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Scale: 1 : 2500

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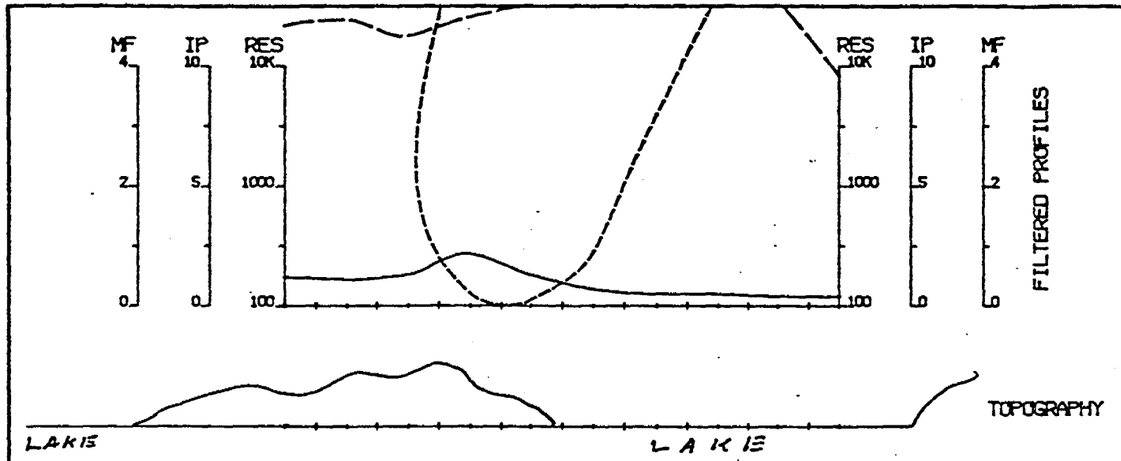
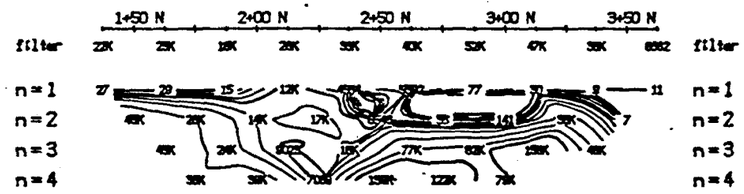
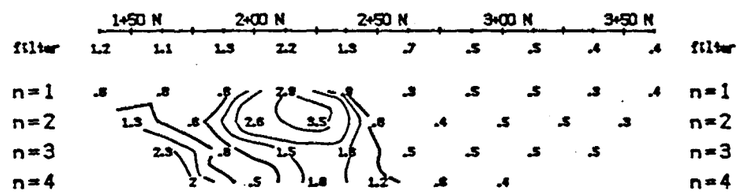
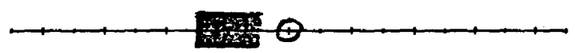




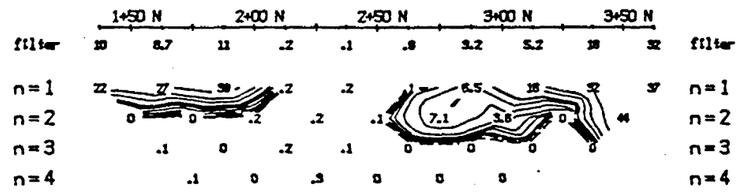
RESISTIVITY
(ohm-m)



P.F.E
(%)



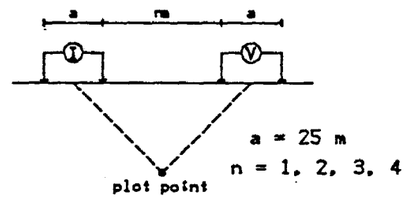
INTERPRETATION



METAL FACTOR
(ip/res * 1000)

Line 58 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

		filter
Resistivity	———	*
Polarization	———	* *
Metal Factor	———	* * *
		* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,....

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.
- O MAG LOW

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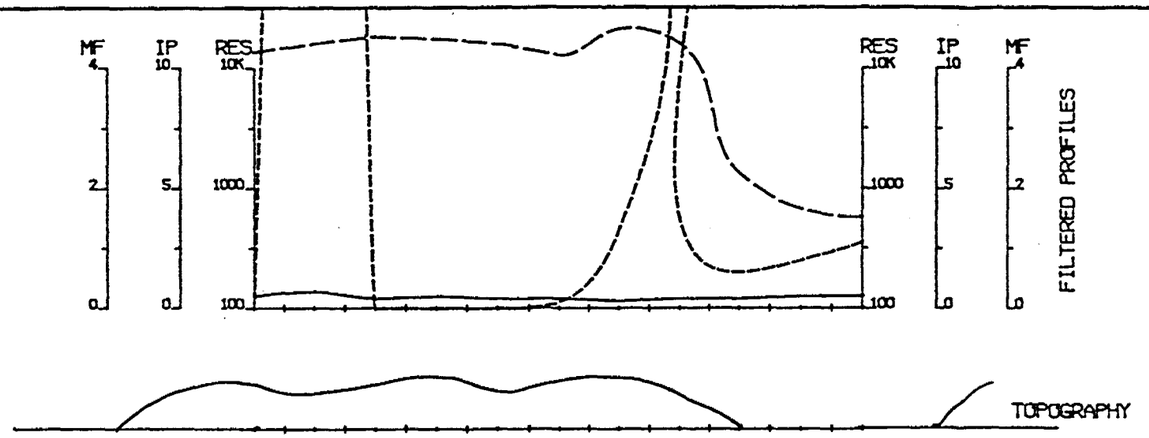
INDUCED POLARIZATION SURVEY

Pipestone Lake Anomaly 7
Emo , Ontario

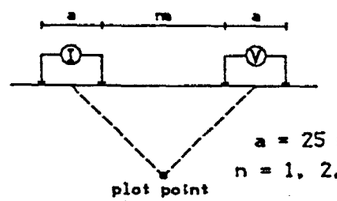
Date: <Jan/89> N.T.S.: 52 F/4
Interpretation by:
Scale: 1 : 2500

MERTENS & MacNEIL LTD



Line 59 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

		filter
Resistivity	———	*
Polarization	———	* *
Metal Factor	———	* * *
		* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

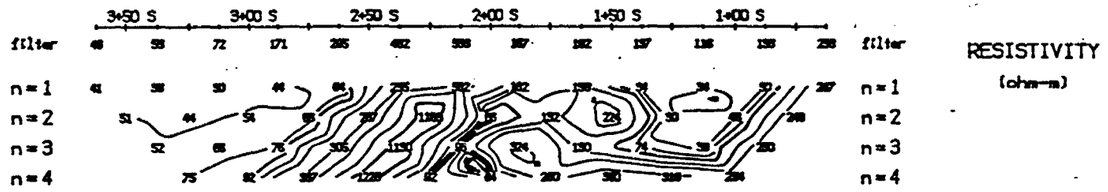
ROSS ISLAND RESOURCES Ltd.

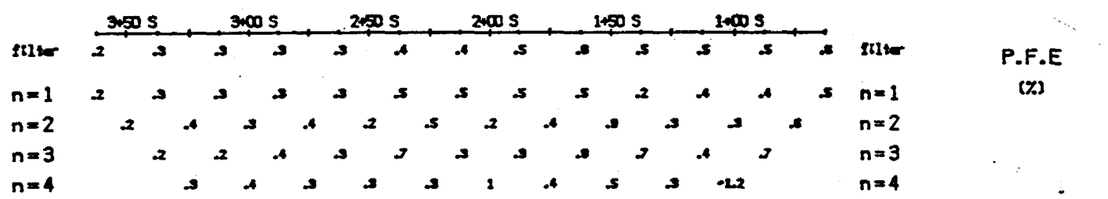
INDUCED POLARIZATION SURVEY

Pipestone Lake Anomaly 7
Emo , Ontario

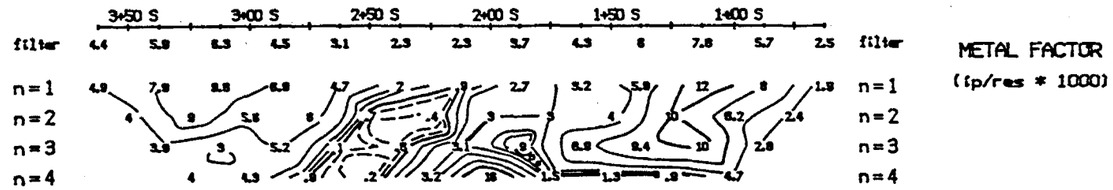
Date: <Jan/89> N.T.S.: 52 F/4
Interpretation by:
Scale: 1 : 2500

MERTENS & MacNEIL LTD



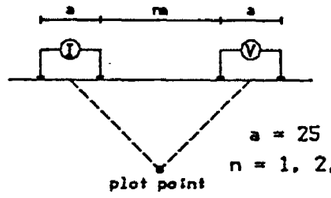


INTERPRETATION



Line ~~88~~ 66 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

	filter
Resistivity ———	*
Polarization ———	* *
Metal Factor - - - - -	* * *
	* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

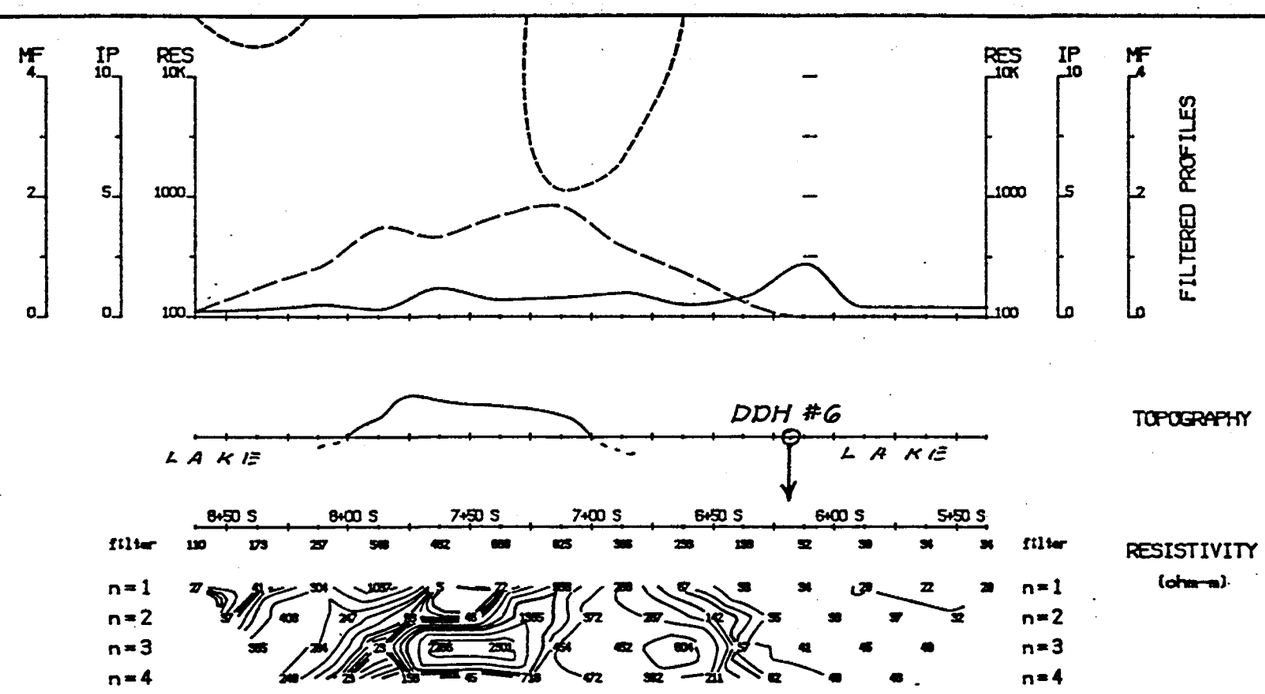
ROSS ISLAND RESOURCES Ltd.

INDUCED POLARIZATION SURVEY

Pipestone Lake Young Test
Emo , Ontario

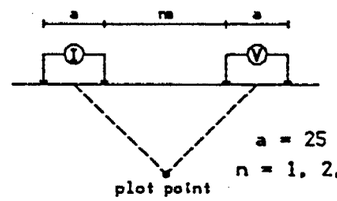
Date: <Jan/89> N.T.S.: 52 F/4
Interpretation by: ANOMALY 9
Scale: 1 : 2500

MERTENS & MacNEIL LTD



Line 64 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

		filter
Resistivity	———	*
Polarization	———	* *
Metal Factor	- - - - -	* * *
		* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,....

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ⧈ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

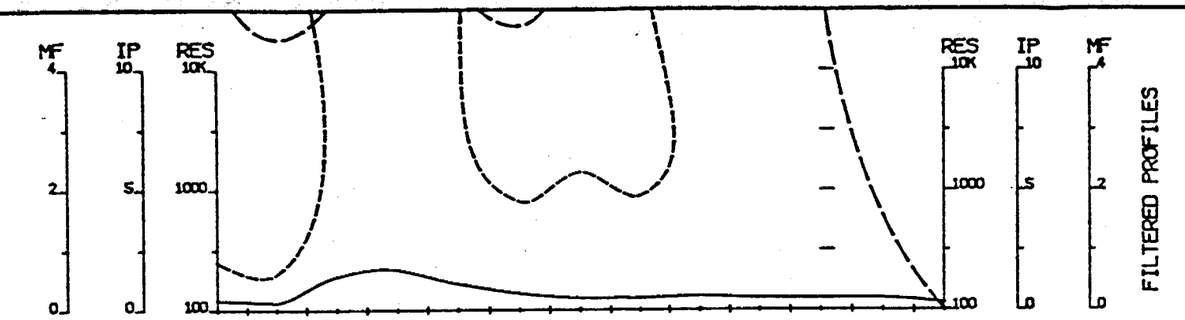
ROSS ISLAND RESOURCES Ltd.

INDUCED POLARIZATION SURVEY

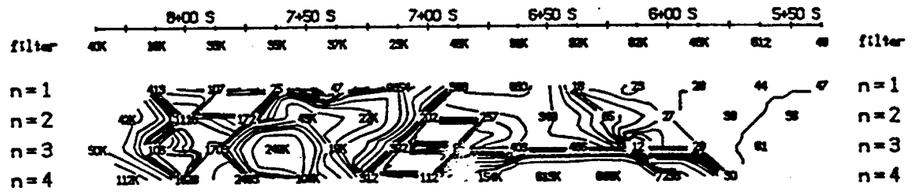
Pipestone Lake Anomaly 10
Emo , Ontario

Date: <Jan/89> N.T.S.: 52 F/4
Interpretation by:
Scale: 1 : 2500

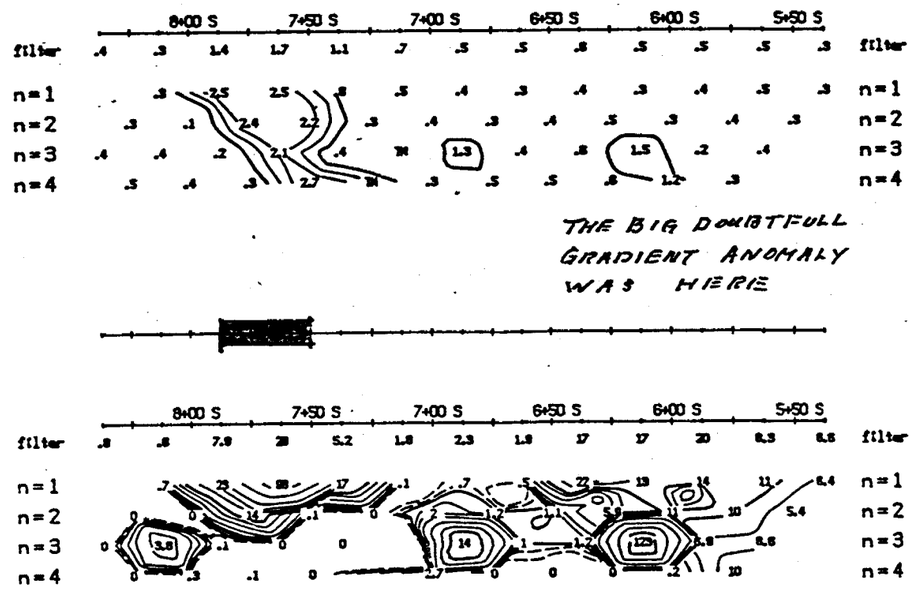
MERTENS & MacNEIL LTD



TOPOGRAPHY



RESISTIVITY
(ohm-m)



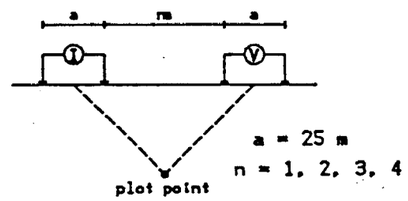
P.F.E
(%)

INTERPRETATION

METAL FACTOR
(ip/res * 1000)

Line 65 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

		filter
Resistivity	————	*
Polarization	————	* *
Metal Factor	- - - - - -	* * *
		* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

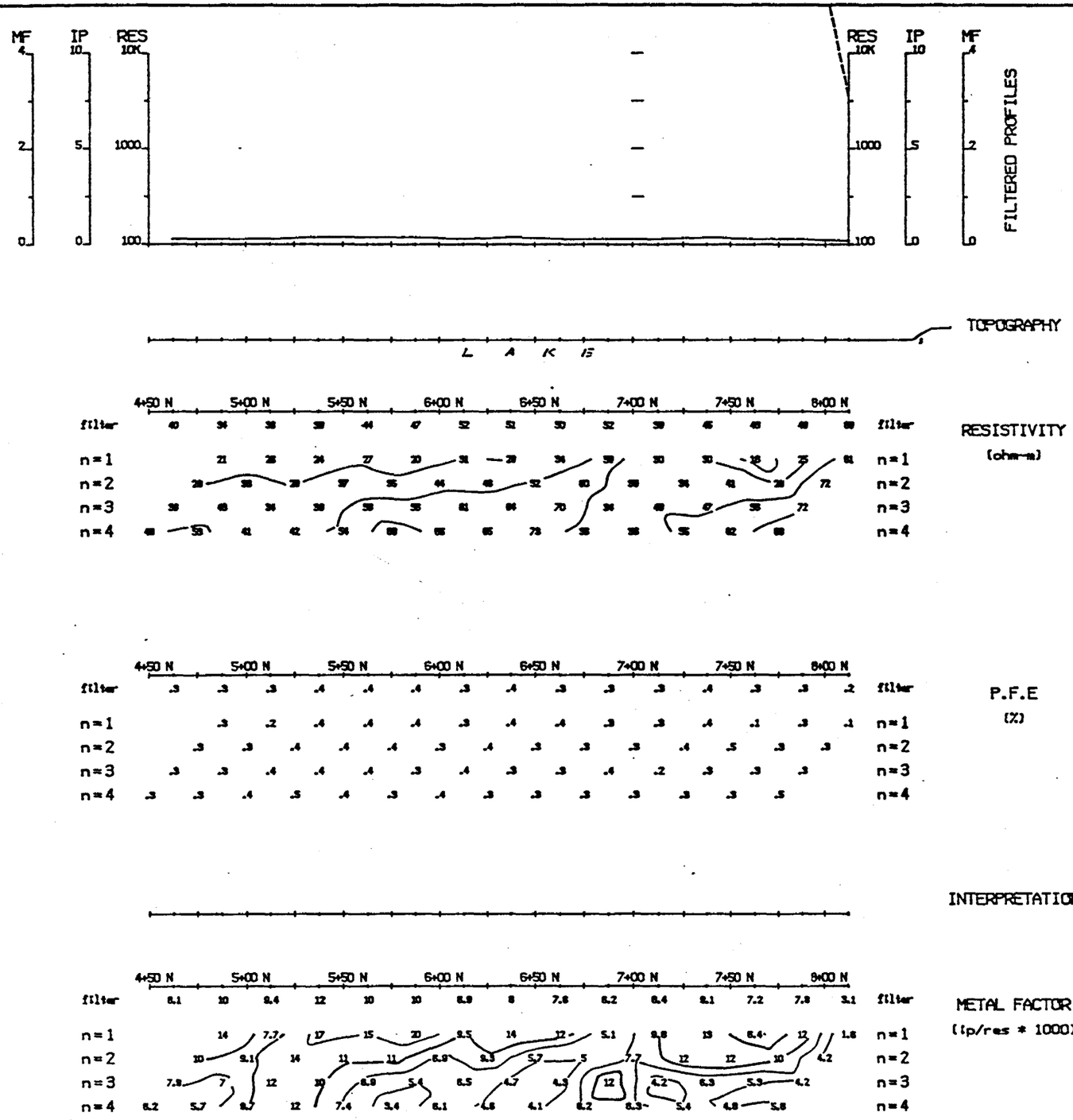
ROSS ISLAND RESOURCES Ltd.

INDUCED POLARIZATION SURVEY

Pipestone Lake Anomaly 10
Emo , Ontario

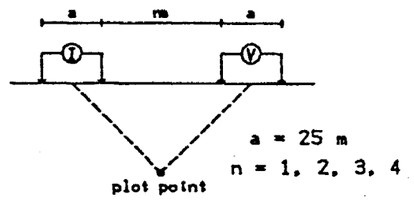
Date: <Jan/89> N.T.S.: 52 F/4
Interpretation by:
Scale: 1 : 2500

MERTENS & MacNEIL LTD



Line 75 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

		filter
Resistivity	———	*
Polarization	———	* *
Metal Factor	———	* * *
		* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,....

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

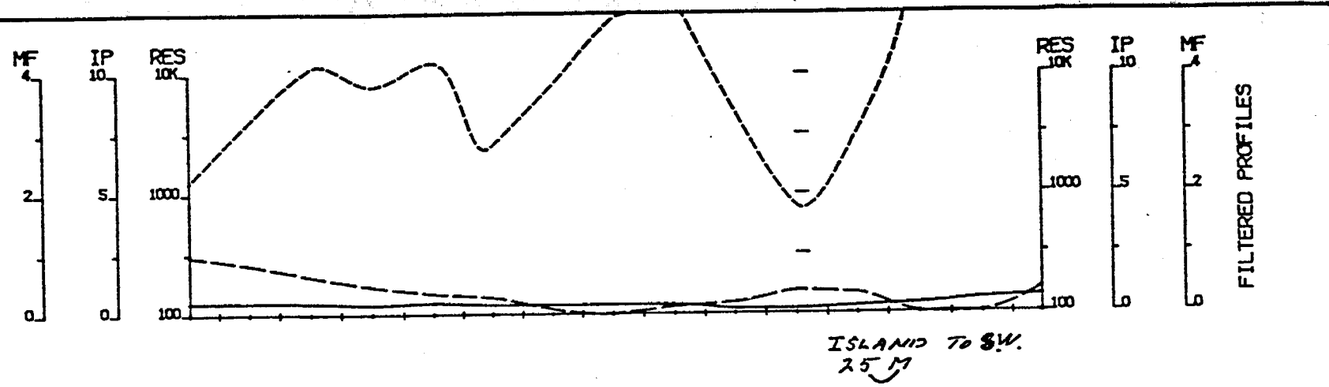
ROSS ISLAND RESOURCES Ltd.

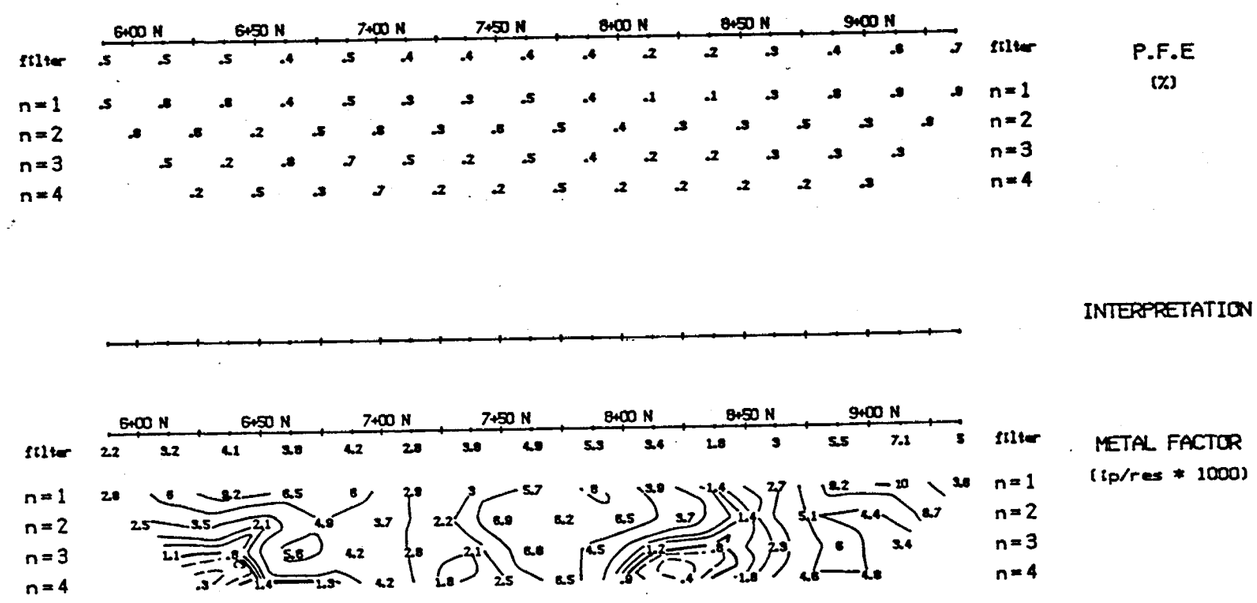
INDUCED POLARIZATION SURVEY

Pipestone Lake Anomaly 11.5
Emo , Ontario

Date: <Jan/89> N.T.S.: 52 F/4
Interpretation by:
Scale: 1 : 2500

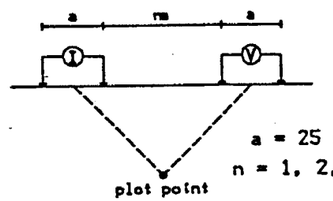
MERTENS & MacNEIL LTD





Line 78 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

	filter
Resistivity	*
Polarization	* *
Metal Factor	* * *
	* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

ROSS ISLAND RESOURCES Ltd.

INDUCED POLARIZATION SURVEY

Pipestone Lake Anomaly 11.5

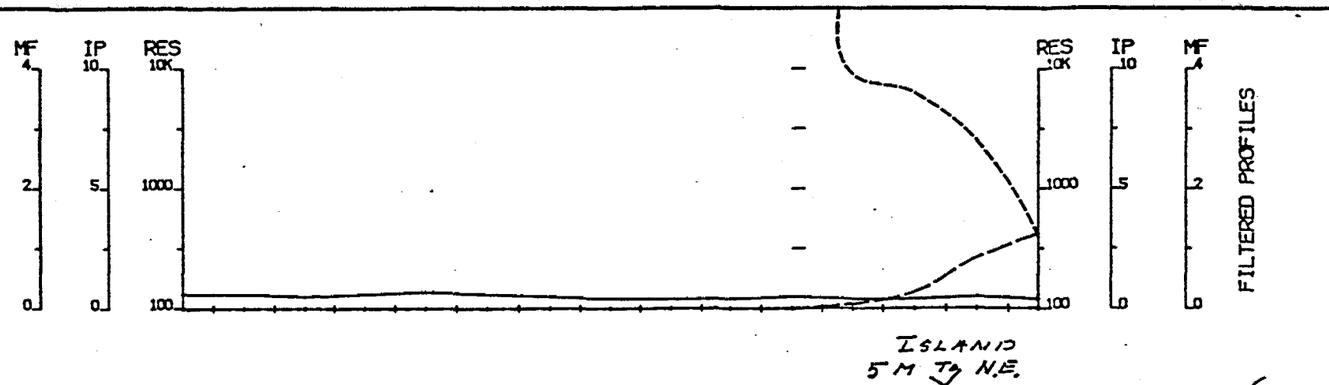
Emo , Ontario

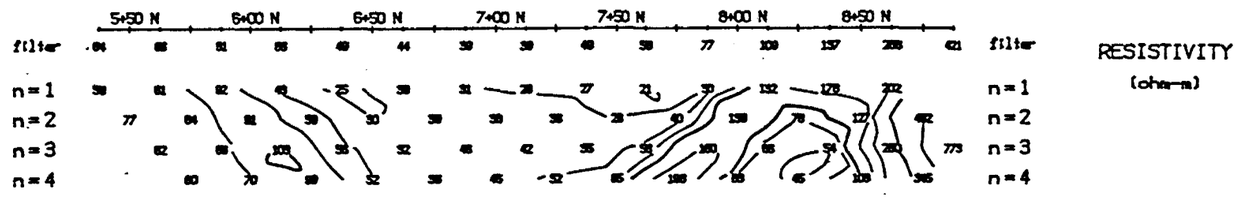
Date: <Jan/89> N.T.S.: 52 F/4

Interpretation by:

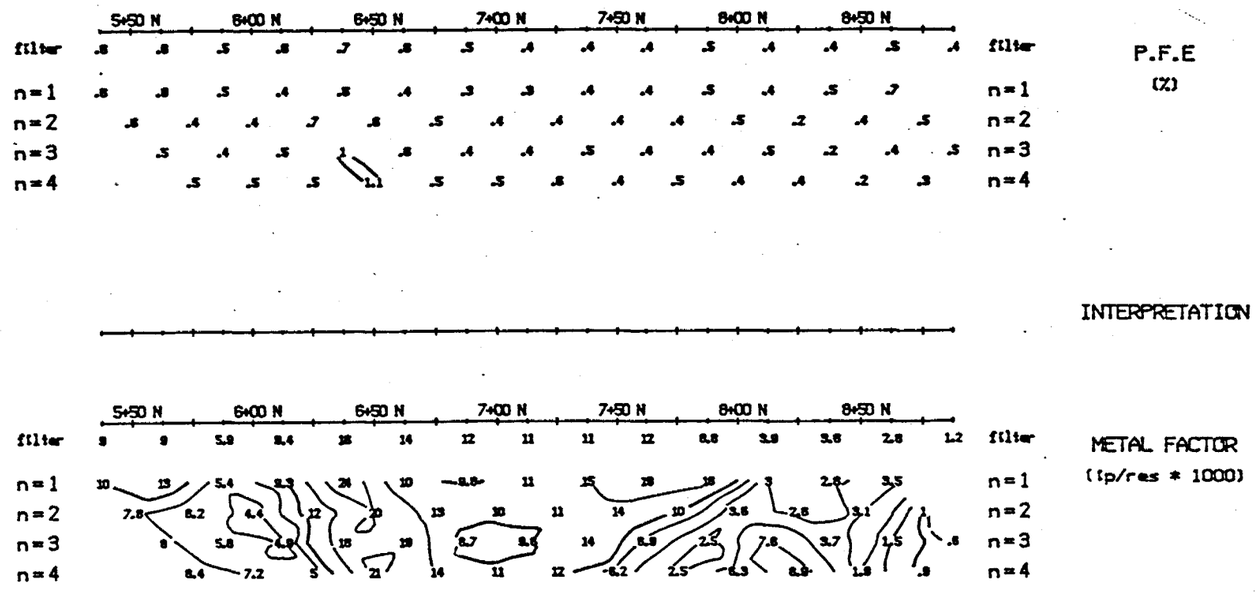
Scale: 1 : 2500

MERTENS & MacNEIL LTD





RESISTIVITY
(ohm-m)



P.F.E
(%)

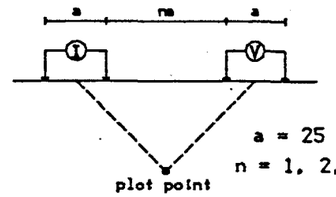
INTERPRETATION

METAL FACTOR
(fp/res * 1000)

GEOSOFT (tm) Software for the Earth Sciences, Toronto, Canada

Line 77 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

		filter
Resistivity	———	*
Polarization	———	* *
Metal Factor	- - - - -	* * *
		* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,....

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

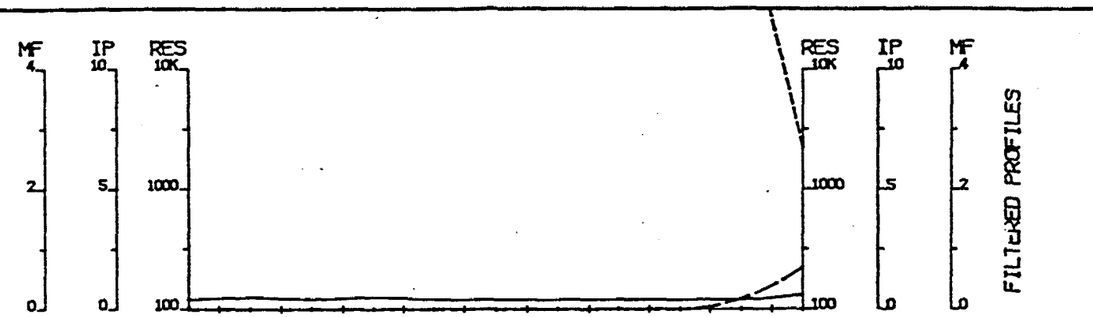
ROSS ISLAND RESOURCES Ltd.

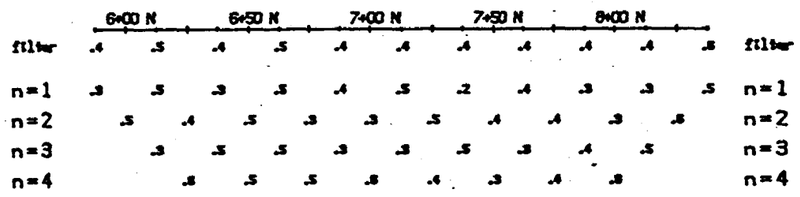
INDUCED POLARIZATION SURVEY

Pipestone Lake Anomaly 11.5
Emo , Ontario

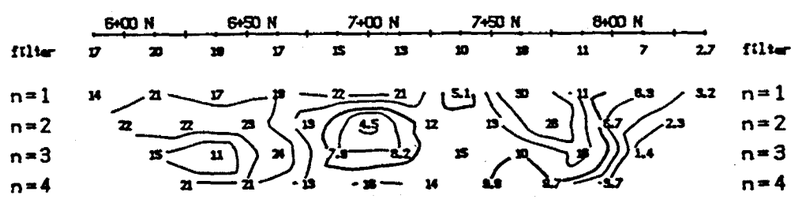
Date: <Jan/89> N.T.S.: 52 F/4
Interpretation by:
Scale: 1 : 2500

MERTENS & MacNEIL LTD



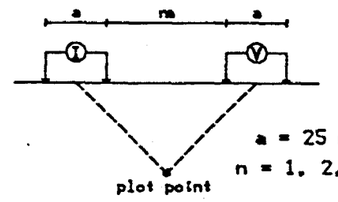


INTERPRETATION



Line 76 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

		filter
Resistivity	————	*
Polarization	————	* *
Metal Factor	- - - - - - - -	* * *
		* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10....

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

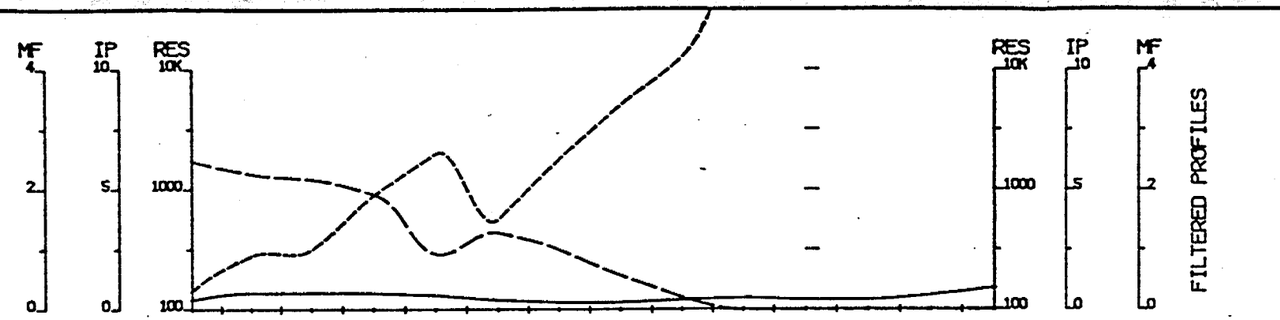
ROSS ISLAND RESOURCES Ltd.

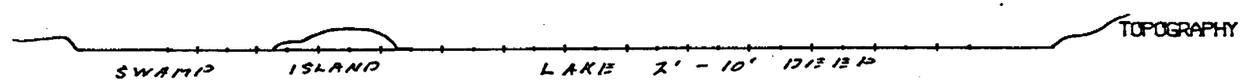
INDUCED POLARIZATION SURVEY

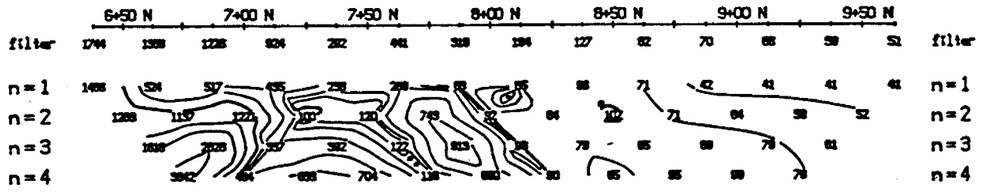
Pipestone Lake Anomaly 11.5
Emo , Ontario

Date: <Jan/89> N.T.S.: 52 F/4
Interpretation by:
Scale: 1 : 2500

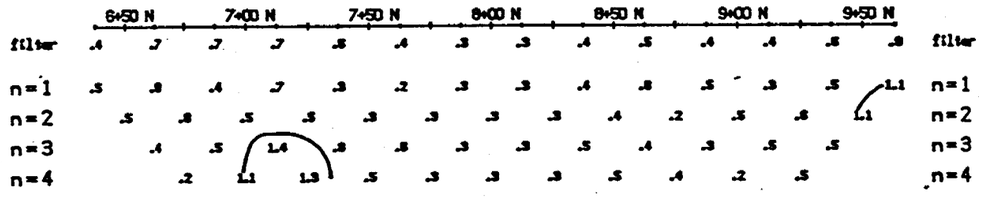
MERTENS & MacNEIL LTD





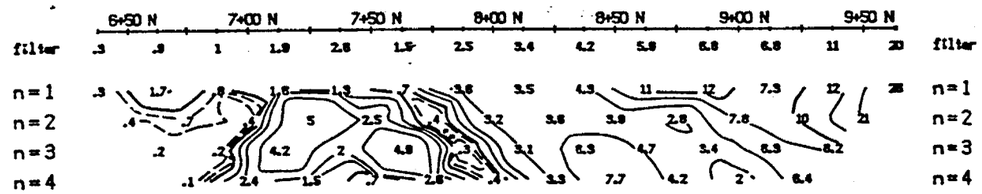


RESISTIVITY
(ohm-m)



P.F.E
(%)

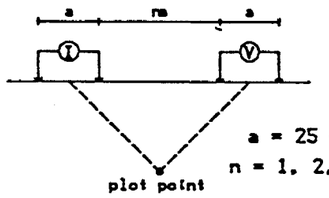
INTERPRETATION



METAL FACTOR
(fp/res * 1000)

Line 79 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

	filter
Resistivity	*
Polarization	* *
Metal Factor	* * *
	* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

ROSS ISLAND RESOURCES Ltd.

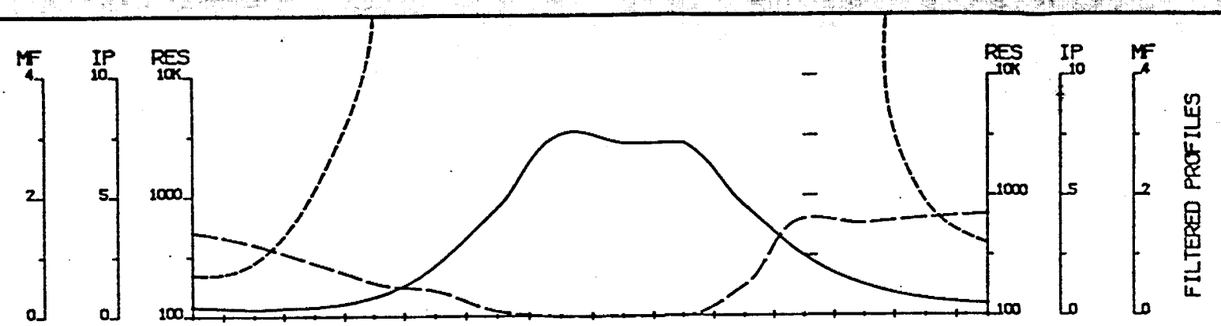
INDUCED POLARIZATION SURVEY

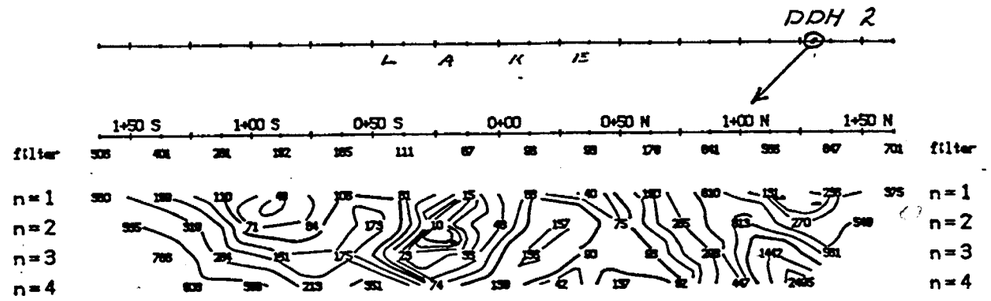
Pipestone Lake Anomaly 11.5

Emo , Ontario

Date: <Jan/89> N.T.S.: 52 F/4
Interpretation by:
Scale: 1 : 2500

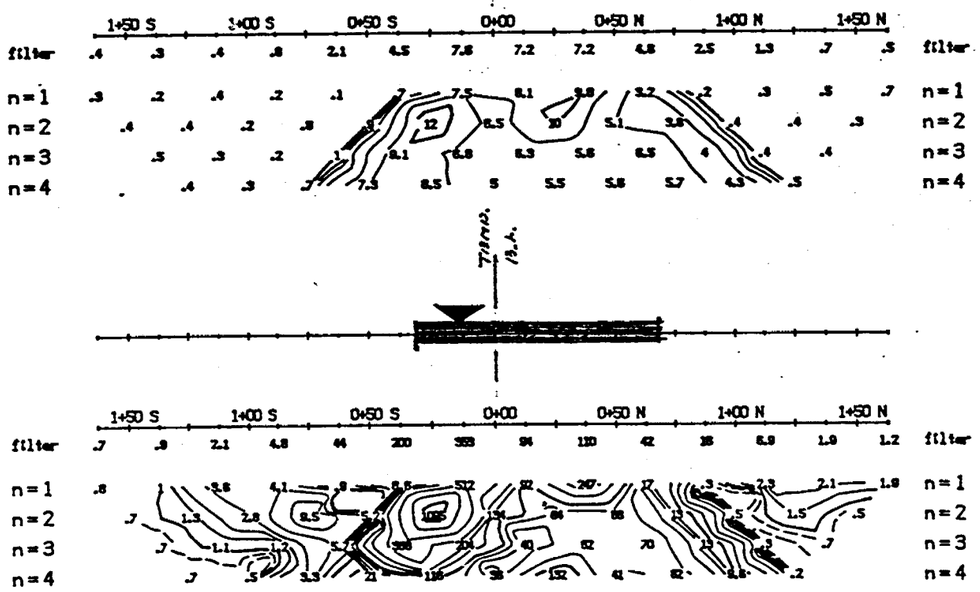
MERTENS & MacNEIL LTD





TOPOGRAPHY

RESISTIVITY
(ohm-m)



P.F.E
(%)

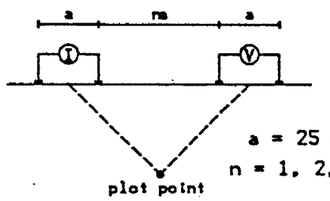
INTERPRETATION

METAL FACTOR
(tp/res * 1000)

GEOSOFT (tm) Software for the Earth Sciences, Toronto, Canada

Line 0.5 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

		filter
Resistivity	———	*
Polarization	———	* *
Metal Factor	———	* * *
		* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

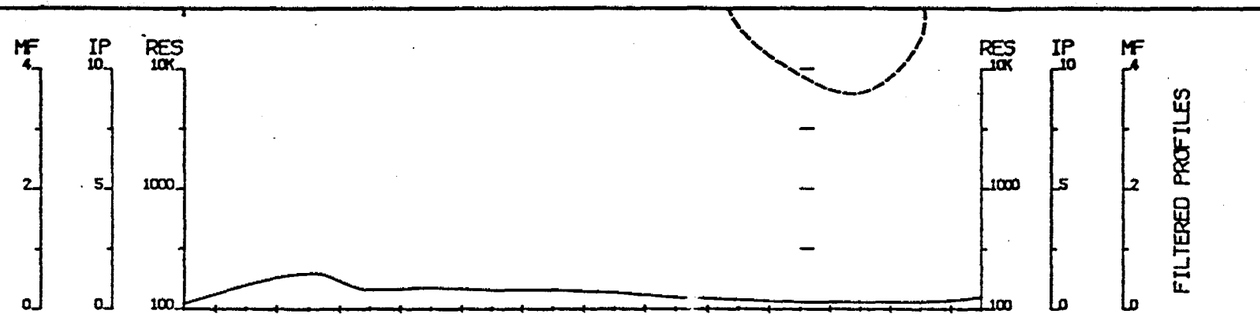
ROSS ISLAND RESOURCES Ltd.

INDUCED POLARIZATION SURVEY

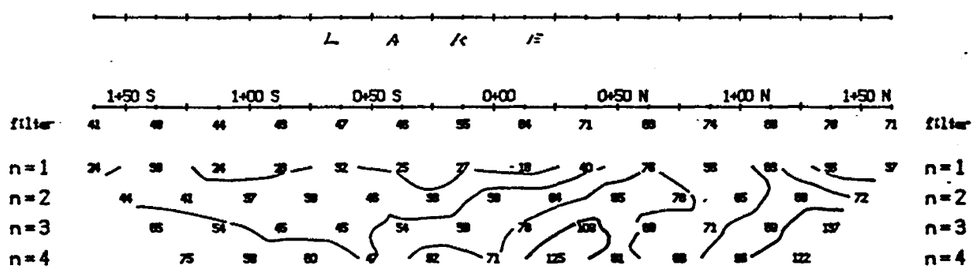
Pipestone Lake Anomaly 12.0
Emo , Ontario

Date: <Jan/89> N.T.S.: 52 F/4
Interpretation by:
Scale: 1 : 2500

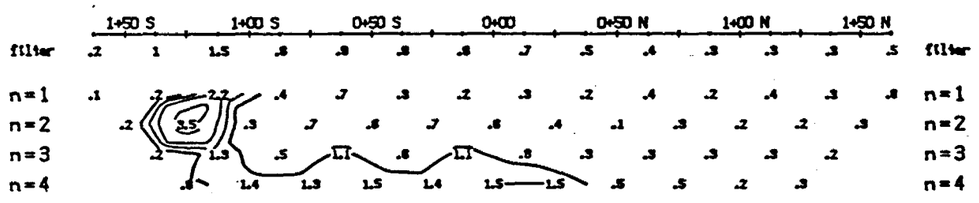
MERTENS & MacNEIL LTD



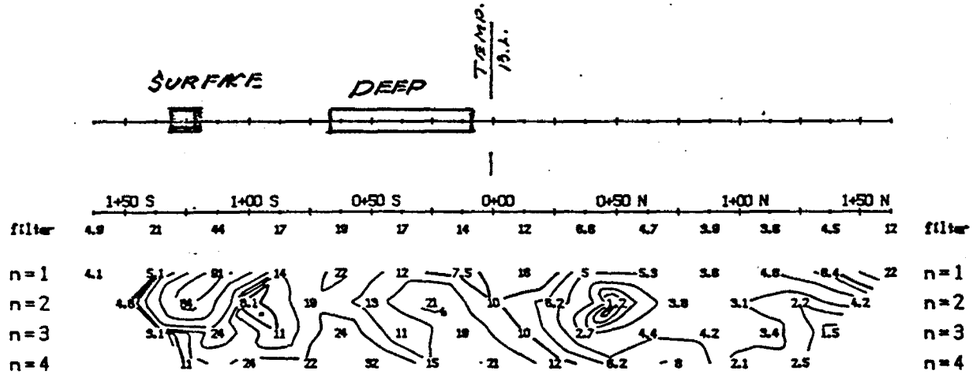
TOPOGRAPHY



RESISTIVITY
(ohm-m)



P.F.E
(%)

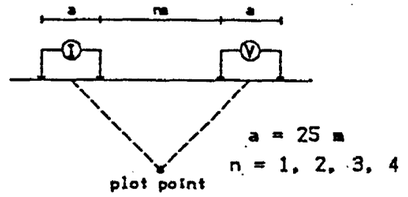


INTERPRETATION

METAL FACTOR
(ip/res * 1000)

Line 1.5 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

	filter
Resistivity ————	*
Polarization ————	* *
Metal Factor ————	* * *
	* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10....

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

ROSS ISLAND RESOURCES Ltd.

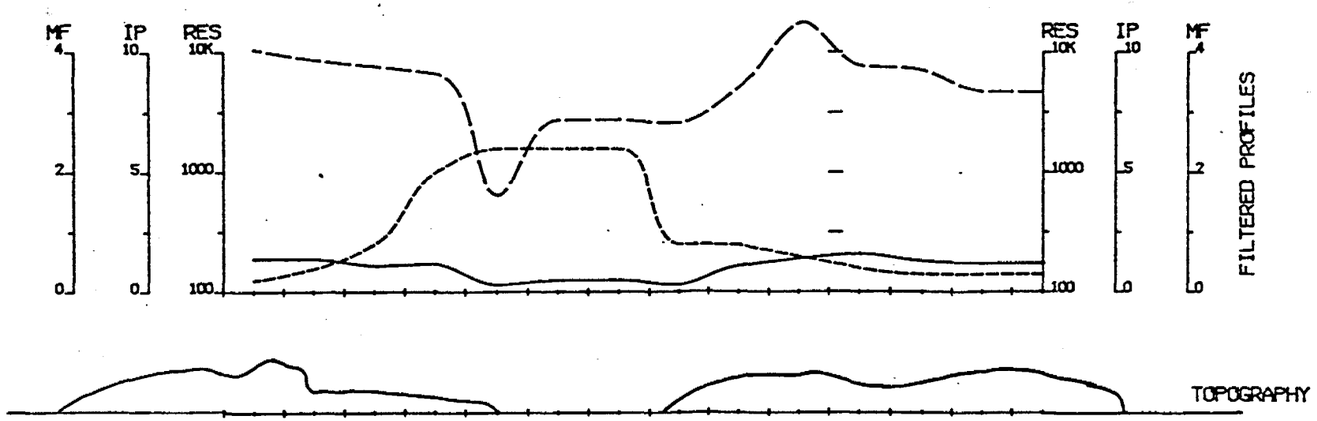
INDUCED POLARIZATION SURVEY

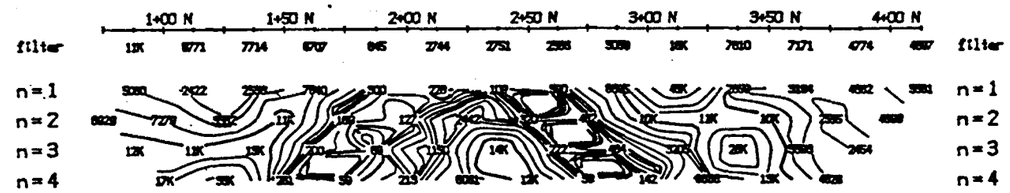
Pipestone Lake Anomaly 12.0

Emo , Ontario

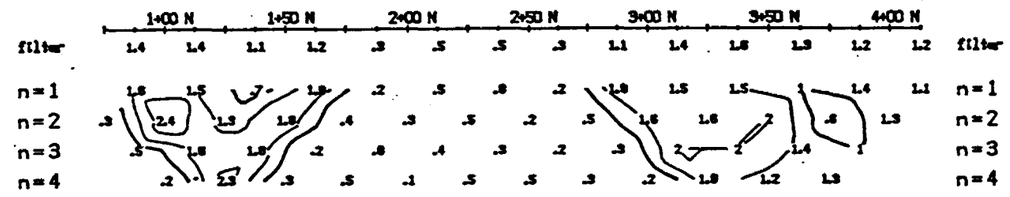
Date: <Jan/89> N.T.S.: 52 F/4
Interpretation by:
Scale: 1 : 2500

MERTENS & MacNEIL LTD

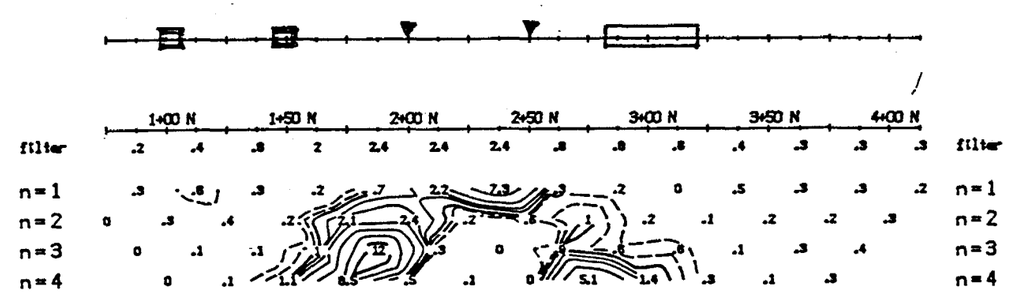




RESISTIVITY
(ohm-m)



P.F.E
(%)

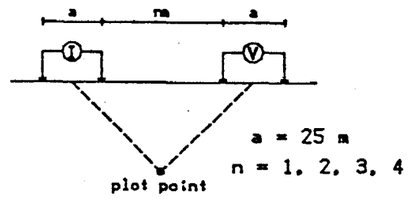


INTERPRETATION

METAL FACTOR
(ip/res * 1000)

Line 91 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

		filter
Resistivity	———	*
Polarization	———	* *
Metal Factor	- - - - -	* * *
		* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

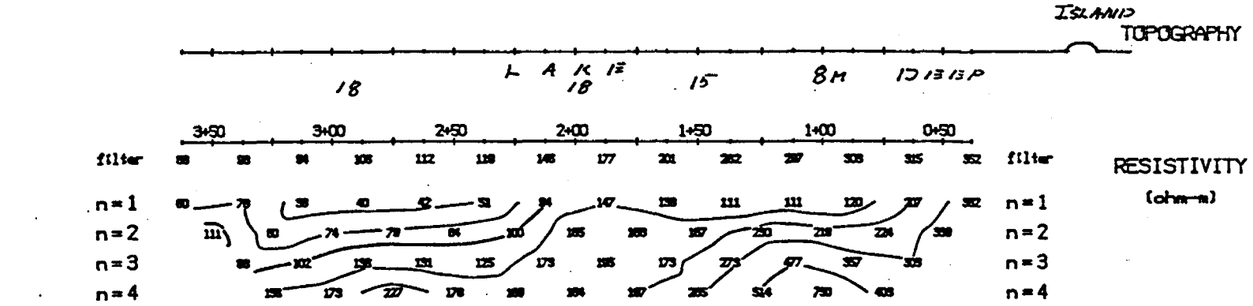
ROSS ISLAND RESOURCES Ltd.

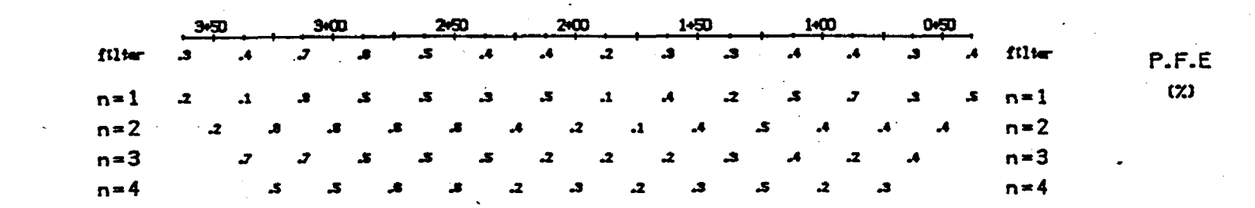
INDUCED POLARIZATION SURVEY

Pipestone Lake Grid
Emo , Ontario

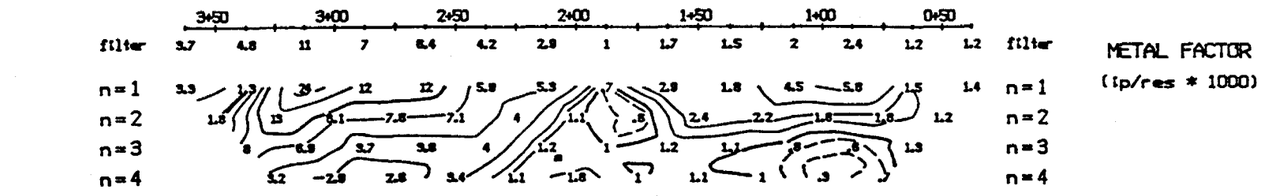
Date: <Jan/89> N.T.S.: 52 F/4
Interpretation by:
Scale: 1 : 2500 ANOMALY - 13

MERTENS & MacNEIL LTD



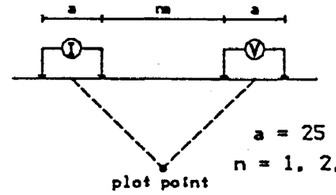


INTERPRETATION



Line 0

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

		filter
Resistivity	———	*
Polarization	———	* *
Metal Factor	- - - - -	* * *
		* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,....

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

INTERPRETATION

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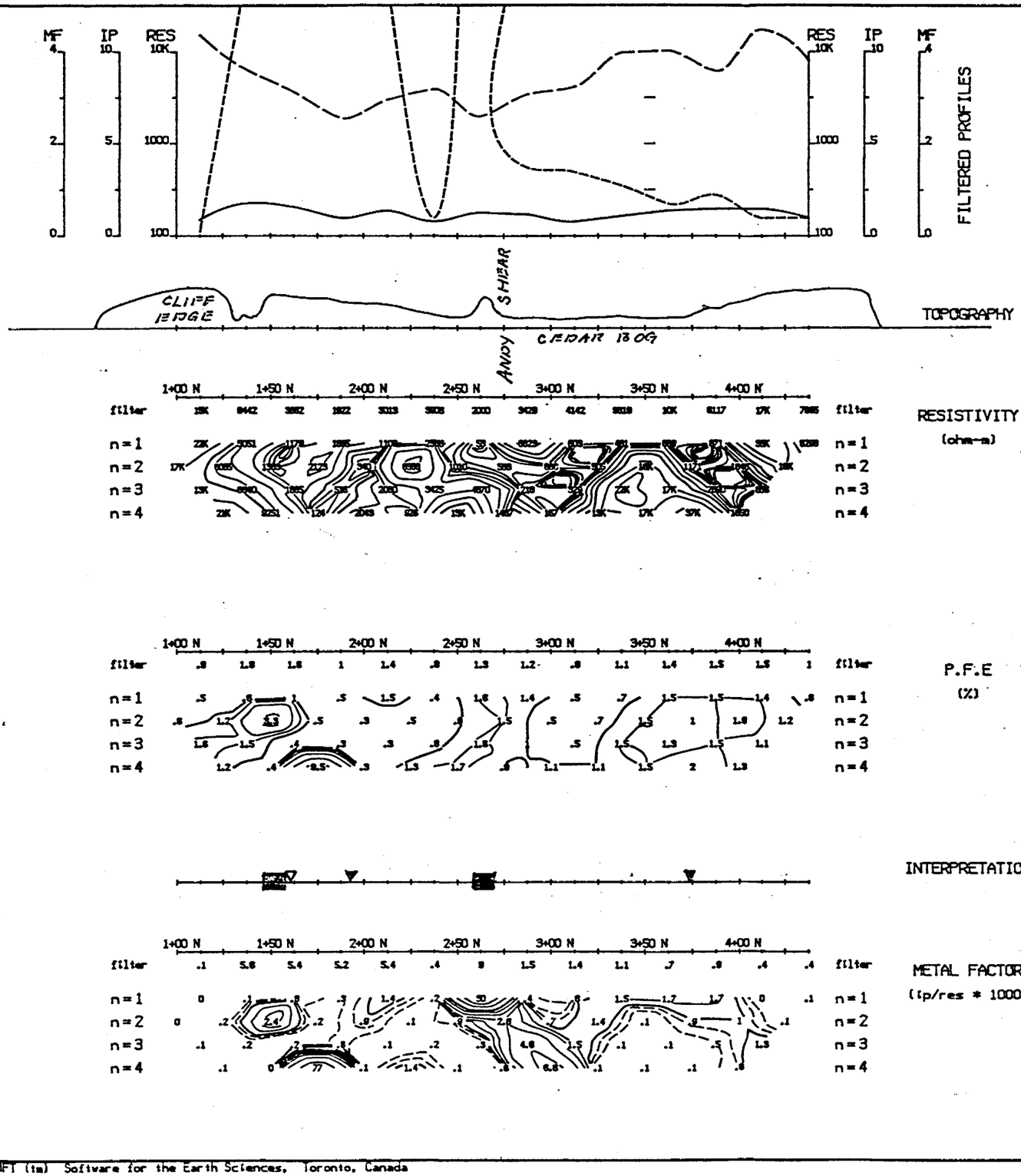
ROSS ISLAND RESOURCES Ltd.

INDUCED POLARIZATION SURVEY

Pipestone Lake Anomaly 12.5
Emo , Ontario

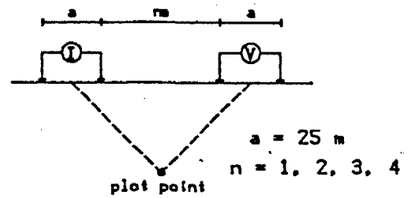
Date: <Jan/89> N.T.S.: 52 F/4
Interpretation by:
Scale: 1 : 2500

MERTENS & MacNEIL LTD



Line 92 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

	filter
Resistivity ————	*
Polarization ————	* *
Metal Factor - - - - - -	* * *
	* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

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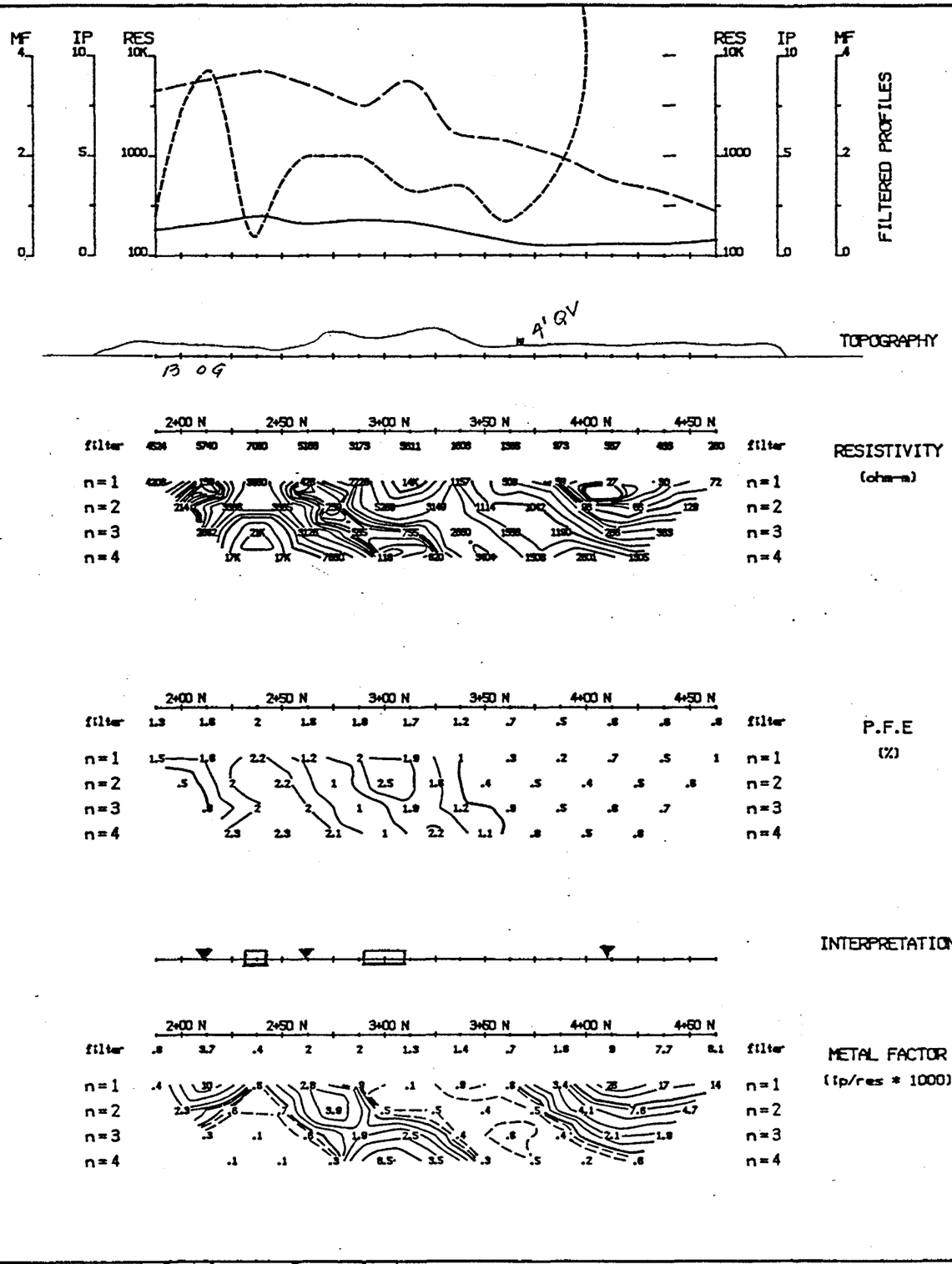
ROSS ISLAND RESOURCES Ltd.

INDUCED POLARIZATION SURVEY

Pipestone Lake Grid
Emo , Ontario

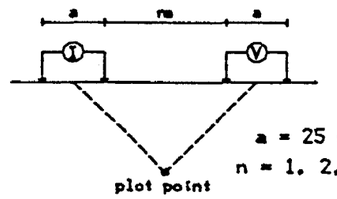
Date: <Jan/89> N.T.S.: 52 F/4
Interpretation by:
Scale: 1 : 2500 ANOMALY-13

MERTENS & MacNEIL LTD



Line 93 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

	filter
Resistivity ———	*
Polarization ———	* *
Metal Factor - - - - -	* * *
	* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,....

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

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ROSS ISLAND RESOURCES Ltd.

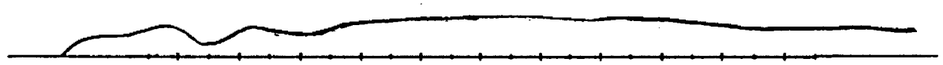
INDUCED POLARIZATION SURVEY

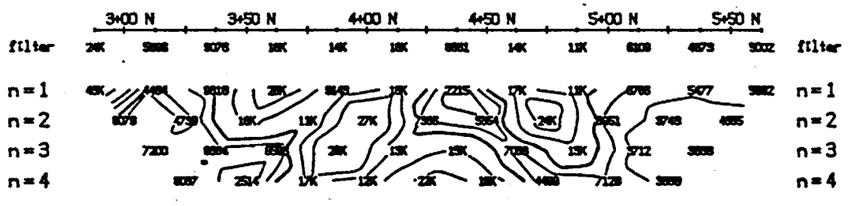
Pipestone Lake Grid
Emo , Ontario

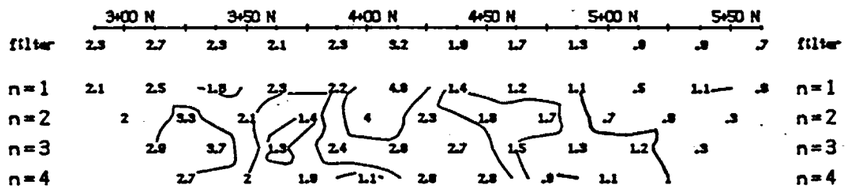
Date: <Jan/89> N.T.S.: 52 F/4
Interpretation by:
Scale: 1 : 2500

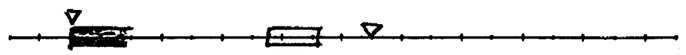
ANOMALY-13

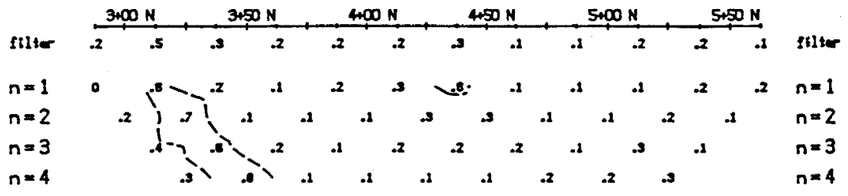
MERTENS & MacNEIL LTD





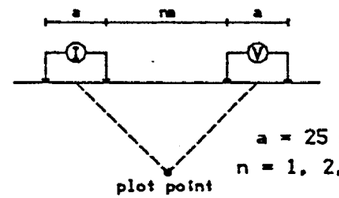






Line 94 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

		filter
Resistivity	————	*
Polarization	————	* *
Metal Factor	- - - - - -	* * *
		* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

INTERPRETATION

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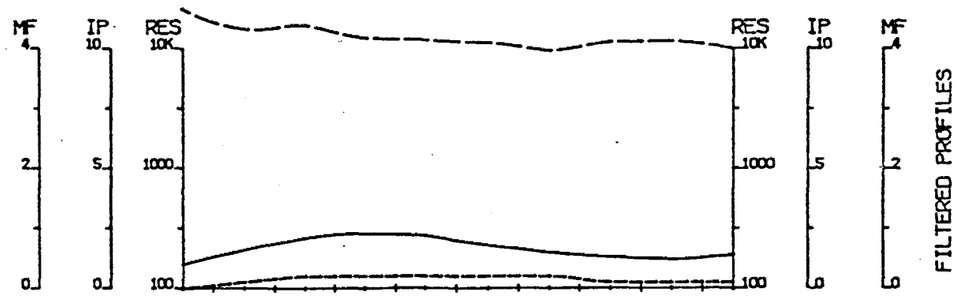
ROSS ISLAND RESOURCES Ltd.

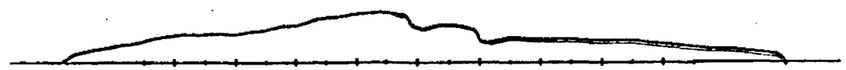
INDUCED POLARIZATION SURVEY

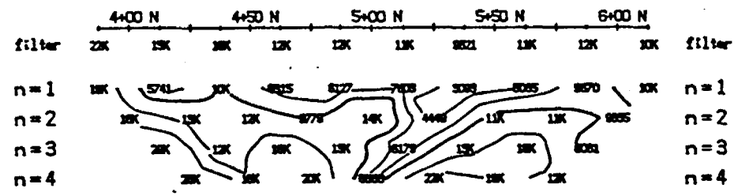
Pipestone Lake Grid
Emo , Ontario

Date: <Jan/89> N.T.S.: 52 F/4
Interpretation by:
Scale: 1 : 2500 ANOMALY - 13

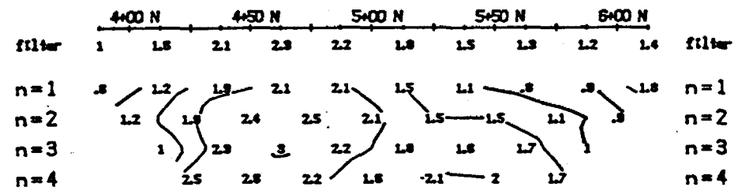
MERTENS & MacNEIL LTD



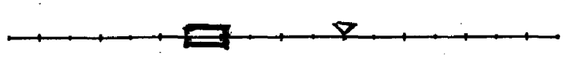




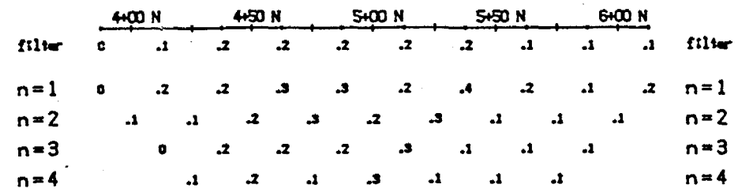
RESISTIVITY
(ohm-m)



P.F.E
(%)



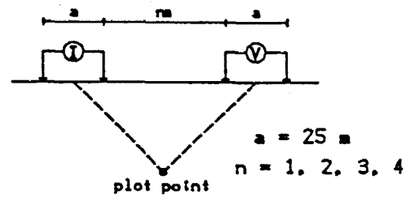
INTERPRETATION



METAL FACTOR
(ip/res * 1000)

Line 95 E

Dipole-Dipole Array



a = 25 m
n = 1, 2, 3, 4

Filtered Profiles

		filter
Resistivity	———	*
Polarization	———	* *
Metal Factor	- - - - -	* * *
		* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Instrument: IPT1, IPV1
Frequency: 0.3 ,5.0 Hz
Operator: R.B.M.

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ROSS ISLAND RESOURCES Ltd.

INDUCED POLARIZATION SURVEY

Pipestone Lake Grid
Emo , Ontario

Date: <Jan/89> N.T.S.: 52 F/4
Interpretation by: ANOMALY - 13
Scale: 1 : 2500

MERTENS & MacNEIL LTD

DIAMOND DRILL LOG (INTO ANOMALY NO.13)

PROPERTY: ROSS ISLAND RESOURCES INC. (Pipestone Lake) HOLE NUMBER: 1

LOCATION: Claim 928073, 900 ft. S of No.1 Post and 200 ft. W " " "

Latitude: 237 m Grid North Dip: 44°

Departure: 9350 m Grid East Depth: 770 feet

Elevation: Lake + 7 m Commenced: Mar.13, 1989

Azimuth: 290° True Finished: Mar.16, 1989

DIP TESTS

Footage	Reading	Corrected
770	=	38°

By the plastic aid of Techdel International Inc., 34 Ripley Ave., Toronto, M6S 3P2 416-769-6053

Logged by: Michael Ogden

SAMPLE NUMBER	DESCRIPTION	Width ft	Met Au oz/t
	The holes were not drilled in numerical order, but are filed that way. Hence this being No.1, the abbreviations used throughout are explained in this log.	By metallic gold method, i.e. screened -100 and combined	+100 and then
	0.0 - 44.0 Gabbro, rice size grain, even textured, dark grey, 1/2 to 1% F.Py (fine pyrite cubes) with "QCS & V (3/ft)" @ 45° to 75° = quartz carbonate stringers and veins, about 3 per foot @ 45° to 75° to the core. Mafic/Feldsic = 60/40.		
	44.0 - 54.0 Diorite, rice grained, even textured, light grey, 1/2% Py, a few QCS. Mafic/Feldsic = 30/70.		
	54.0 - 67.5 Lighter gabbro than above, but similar, due to bleaching and to vague CQS & T at random angles, although 75° predominates = carbonate and some quartz stringers and threads, the latter making up 10%-15% of the rock.		
8	54.0 - 55.0 30% C plus some Q in V & S, 1% Py.	1.0	0.003
	67.5 - 140.0 Grey granite, coarse sugary grained, light grey, even textured, 5%-10% salt grained Q, 3%-10% mafic, balance felsitic, 1%-3% Py.		
7	67.5 - 69.8 Siliceous, 40% QC flooding, 1%-2% F.Py.	2.3	0.023
	110.0 1 ft cemented old shear plus QCS, 3% Py @ 45°		
	114.0 1 inch QV @ 45° NVM = No Visible Mineralization		
	118.0 Ditto.		

Sample Number		Description	Width ft	Met Au oz/t
	142.4 - 151.6	Old (cemented shear @ 75°-80°.		
12	140.4 - 143.0	Weak shear grading into QC breccia by 142 NVM.	3.0	<0.001
9	143.0 - 148.0	Intense shear and QC breccia 25% QC, 1%-2% Py.	5.0	<0.001
10	148.0 - 149.3	QV @ 45° with 4% Py in 1" edges (white bull Q).	1.3	0.002
11	149.3 - 151.6	7% QC in weak shear plus some breccia @ 75°. 2% Py = 2.3 ft.	2.3	0.002
	151.6 - 168.7	Grey granite.		
	168.7 - 174.6	Shear and breccia @ 70° with QV and QCS & V & T plus many black threads.		
13	168.7 - 171.6	Shear and breccia plus 6" QV @ 75°. 1% F.Py = 2.9 ft.	2.9	0.005
14	171.6 - 174.6	Breccia continued. Multiple black threads @ 75°, ±3% F.Py.	3.0	0.013
	172.8 - 173.8	90% Q = 3.0 ft.	1.0	
	174.6 - 189.0	Grey granite. Final contact @ 15° with QCS in it of 1/4".		
	189.0 - 244.0	Gabbro as at start with vague chilled contact over 1/2"-3/4", even textured, almost black.		
	191.5 - 198.0	5% coarse cubic Py disseminated gabbro flecked with tan specks = rutile. A few QS & T mostly @ 60°. 1/2%-1% F.Py.		
	202.0 - 204.0	7% c.g. Py cubes plus 1" QV @ 70°.		
	207.0 - 208.5	3% c.g. Py cubes plus 1" QV @ 70°		

Sample Number		Description	Width ft	Met Au oz/t
	214.0	2" shear @ 45°.		
	226.0 - 228.0	2% coarse Py cubes.		
	228.0 - 230.0	1/4"-1" QV @ 70° and 25° to core, VLM.		
	233.0 - 243.0	Shearing with scattered QS and a few (6) veins (1/4"-2") of Q @ 60°.		
15	235.0 - 240.0	The more intense portion of above, up to 2% Py plus c.g. Ph? @ 235.2.	5.0	0.005
	244.0 - 271.0	Carbonated and bleached gabbro, sugar to flour grain, very uneven textured rock of various light greys with black stringers and variable shear intensity @ 45°-60°. The initial contact is vague over 1 ft and seems granular fading to finer grain after a few feet.		
	250.0 - 251.0	Aplite dyke parallel to intense shearing @ 65° with a multitude of black threads.		
	249.5 - 258.5	Intense shear @ 55°+ of 50% C in TS & V up to 1/2" thick, with maybe 7% Q in S & T.		
16	250.0 - 255.0	As above.	5.0	<0.001
	261.0 - 263.0	vague dark grey zone of possible gabbro, greatly altered.		
	265.0	3 inches ditto.		
	271.0 - 284.0	Blocky gabbro, dark green, rice grained with 15%-40% carbonate and a little Q in patches, blobs W & S but no shear direction and VLM. Light greyish yellow granite.		

Sample Number		Description	Width ft	Met Au oz/t
	284.0 - 292.0	Light greyish yellow (ankeritic), even textured, rice grained rock of 20%-40% Q, less than 10% mafics and the rest ankerite? and carbonate.		
16819		286.5 - 290.8 5% rice size Py, 35% Q.	4.3	<0.001
		278.0 - 290.0 3% Py.		
	292.0 - 325.0	Carbonated gabbro, a rice grained dark green rock with 10%-60% white carbonate + QS &T in veinlets, blobs and masses, VLM.		
		301.0 - 310.0 Shearing @ 45°, only 1% Py, i.e. normal.		
17		300.0 -305.0 As above.	5.0	<0.001
	325.0 - 386.0	Gabbro as above but only 5%-10% carbonate in SV and the odd patch.		
		344.0 - 356.0 Carbonated sheared gabbro, 15%-90% C, mostly in elongated blobs, VS & T @ 80° to core.		
18		344.0 - 346.0 Contains 1 ft white QV @ 80° with many black carbon? stringers and threads, 1% Py. The Q is in a buff coloured flour grain sheared rock with 5% Py. (Buff = Q?)	2.0	<0.001
19		346.0 - 351.0 Sheared, bleached gabbro 40±% C, 10% Q, 2% Py.	5.0	0.002
20		361.8 - 362.8 Bleached shear @ 85°. 90% ± Q, 3% Py.	1.0	<0.001
		379.0 1" QV @ 35°.		
		380.0 1/3" QV @ 35°.		

Sample Number		Description	Width ft	Met Au oz/t
	386.0 - 575.0	Gabbro, rice grain, mostly even textured, dark green. A few (1/ft) QCV & S in slips @ 45°±.		
	393.0 - 397.0	1/2" CV ± Q along core.		
21	413.7 - 417.5	QV along core, perhaps 1 ft wide and at 10°,VLM.	4.0	<0.001
	452.0 - 461.0	Carbonate/ankerite zone, rice grain, greenish grey, 15% Q, 55% C, 20% mafic.		
22	461.0 - 466.0	Shear zone @ 45° of 60% QCS & V and 1%-2% Py, balance dark grey. Many hard black T, a little breccia.	5.0	0.001
	474.0 - 476.0	Irregular Q along and across core.		
23	480.0 - 482.5	Well-defined shear @ 70°, central foot is 90% C plus some Q, trace Py, some serpentine.	2.5	0.001
24	486.0 - 488.5	QS & V and some breccia in a light grey bleached zone. VLM.	2.5	<0.001
25	488.5 - 489.0	White QV with multiple black partings @ 90°, 4% Py. Trace CP.	0.5	0.002
26	497.5 - 500.0	Irregular Q ± C zone @ no angle to core. VLM.	2.5	<0.001
28	510.0 - 513.0	QCS & V in shear @ 80°, only 1% Py.	3.0	<0.001
	522.0	1" CV @ 30°.		
	523.0	0.8 ft of 4 QV's @ 90°, 1% Py 1/4"-1" thick veins.		

Sample Number		Description	Width ft	Met Au oz/t
	540.0	4 inches of breccia QC matrix.		
27	543.3 - 548.3	QV zone, i.e. many (6/ft) 1/8"-2" thick QV @ 60°-80° with 4%-10% Py in or next to the QV.	5.0	<0.001
	575.0 - 609.0	Grades into light grey bleached zone with intermittent tight shearing @ 80°.		
	575.0	1 ft. of 12 QCS NVM.		
29	579.0 - 580.5	Tight, closely banded QCS & T @ 80°± plus 4% Py with Q breccia vein of 5".	1.5	0.001
	587.5 - 599.0	Grey and black banded shear @ 80°. The grey is sheared pock and QCS with serpentine on the slips. VLM.		
30	596.5 - 599.0	As above but with 3% F.Py plus 4", 1", 1/2" QV and a 2" siliceous zone.	2.5	0.001
	609.0 - 770.0	Massive gabbro, dark green and white, coarse rice grain when not sheared to fine rice when slightly sheared. Odd speck of Py with the odd Q, QC or C, S or T at steep angles.		
	647.0 - 664.0	Weak shearing obliterating the coarse granular effect.		
	670.0	6" QC and serpentine shear, few specks of Py.		
	679.0	4" laminated CQV @ 60°, NVM.		
	696.0	3" QV @ 80°, NVM.		
	707.0 - 708.0	Irregular QCV & S @ 30°.		
31	733.5 - 734.0	6" white QV @ 75°, NVM.	0.5	0.004

Sample Number		Description	Width ft	Met Au oz/t
32		751.0 - 751.5 4" white QV @ 75°, trace Py.	0.5	0.004
	770.0	END OF HOLE.		

SUMMARY LOG OF DDH.1

0.0 - 23.0 CASING

23.0 - 68.0 GABBRO = G various

23 - 44 QCST @ 65°±.

68.0 - 189.0 GREY GRANITE = N + 1-3% Py

140 - 151 Shear zone = SH
169 - 175 Shear + breccia = SHX

189.0 - 770.0 GABBRO

233 - 243 Sheared
244 - 271 Heavily carbonated zone
284 - 292 Ankerite and quartzitic zone
292 - 325 Carbonated gabbro
344 - 356 Carbonated sheared gabbro
452 - 461 Grey carbonated/ankerite zone
543 - 548 Quartz Vein zone = QV
575 - 609 Frequently sheared, specially
579 - 599 = B & W banded.

770.0 END OF HOLE.

DIAMOND DRILL LOG (INTO ANOMALY NO.12)

PROPERTY: ROSS ISLAND RESOURCES INC. (Pipestone Lake) HOLE NUMBER: 2

LOCATION: Claim 940148, 550 ft. S of Post No.1 and 200 ft. W " " "

Latitude: 509 m Grid North Dip: 45°

Departure: L8471 m East Depth: 800 feet

Elevation: Lake + 1/2 m Commenced: Mar. 9, 1989

Azimuth: 175° True Finished: Mar.12, 1989

Logged by: Michael Ogden

DIP TESTS 7/8" Test Tube

Footage	Reading	Corrected
650		45°
800		44°

Core Size 1-5/8"

SAMPLE NUMBER	DESCRIPTION			Width ft	Met Au oz/t
	0.0 - 13.5	Casing in water alongside the shore, some 10 ft. out.			
	13.5 - 322.5	Basalt, sugary grained, dark greyish green.			
1		17.0 - 18.0	1" band of bluish quartz (BLQ) @ 80° plus 15% Py and 4% Cp, i.e. pyrite and chalcopyrite plus 1" of QCS = 1.0 ft. Numerous irregular quartz and quartz-carbonate stringers at various angles to the core (Q&QCS). The odd irregular light green and sometimes white feldspar crystal. To 65 ft. a few scattered black and white stringers of Q plus a skim of Ph (pyrrhotite) ± a few specks of Cp in the Q to about 45 ft.	1.0	0.010
		45.0 - 71.0	More even textured, few S and V.		
		71.0 - 88.0	Uneven texture with frequent very fine stockwork of QC stringers and threads (QCS&T) over 1/2 to 3 ft. at a time. 1/2 to 1" thick white bull quartz vein almost parallel to core @ 80, 81 and 83 ft. with a slip along one side. They could be all the same vein. No visible mineralization (NVM).		
		91.0 - 93.0	Vague breccia and flow top?		
				Cu ppm	Au oz
2		95.7 - 96.2	Vague Q plus sulphide zone @ 90° ±4% Ph, 2% Cp = 0.5 ft.	4800 = 1/2%	<0.001

Sample Number		Description	Width Ft.	Met Au oz/t
	101.0	1" QCV (quartz carbonate vein) @ 30°, NVM.		
	104.0	Ditto - 1/2"		
	120.0 - 322.0	Numerous (5 to 10/ft). QCS&V often only an inch long, mostly @ 40° to core.		
3	139.0 - 140.0	Irregular zone of 20% QC with 10% Ph and 3% Cp. They occur in bands at various angles = 1.0 ft.	1.0	0.004
	157.5	1" grey siliceous carbonate zone as above only clearly @ 40° to core. It has 7%+ Ph (pyrrhotite) in massive stringers with a little Cp.		
	165.0 - 167.0	Vague siliceous carbonate zone, VLM (very little mineralization.		
	183.0 - 185.0	Irregular zone of siliceous carbonate blobs, S&V at various angles with a few S&V of Ph + a little Cp.		
	220.0 - 260.0	More numerous QCSV and blobs but less or no mineralization.		
	260.0 - 285.0	QCS of 1/4" to 1/2" @ 30° to core about 2-5 ft.		
	300.0 - 315.0	Numerous QCS&T @ 60° plus 2% Py.		
4	302.5 - 304.0	= 1.5 ft. ditto plus 3% Py.	1.5	<0.001
	322.5 - 373.0	Slightly more grey, rice size grain, scattered irregular fieldspar crystals.		
	373.0 - 574.0	As 0.0-322.5 slightly more grey, i.e. lighter.		
5	379.5 - 381.7	= 2.2 ft QC breccia and old shear zone plus 2% fine pyrite.	2.2	<0.001

Sample Number	Description	Width Ft.	Met Au oz/t
	400.0 - 415.0 Lots of feldspar "peas".		
	415.0 - 447.0 More even textured with only a few QCS&V, usually @ 60° to core, NVM.		
	447.0 - 475.0 Frequent QCS&T at various angles plus a few QCV @ 60°, NVM.		
	475.0 - 503.0 Less S&V&T, more even texture, NVM.		
	503.0 - 554.0 Multitude of QCS&T at various angles with 60° predominant, NVM, occasional remnants of old shears @ 80°, e.g. over 1 ft @ 521, 6" @ 523, 12" @ 547, 1-1/2 ft @ 550. Sometimes there is a skim of pyrite on fractures @ 45°±, otherwise NVM.		
	554.0 - 574.0 Even textured, the odd QST&V.		
	574.0 - 609.0 Carbonate flooding (10% to 20% of rock) in S&V&T stringers, veins and threads) at various steep angles with odd skim of Py but usually NVM. The odd QS.		
6	598.0 - 603.5 20% CSV&T with 1%-3% Py in shear parallel to S @ 80°.	5.3	<0.001
	609.0 - 681.0 Similar to 503.0-554.0 but less CS&V and VLM (the odd skim).		
	610.0 - 612.0 2% Py.		
	More pronounced shearing at 640-642 @ 80°, 656-660 @ 90°, 678-680.		
	681.0 - 715.0 More massive, some CS&V.		

Sample Number	Description	Width Ft.	Met Au oz/t
	715.0 - 744.0 10% CS&V at various angles, mostly 30° to 30°, irregular shear at 719-720 plus 1% Ph.		
	724.0 - 725.0 Ditto.		
	738.0 - 740.0 QCV&S in S curve, NVM.		
	744.0 - 800.0 Gabbro, even textured, rice size grain, light moss green, about 40% yellowish white plagioclase in a chloritic, biotitic matrix. The odd QCS&V @ 40° to 80°, NVM.		
	800.0 END OF HOLE		

SUMMARY LOG OF DDH.2

	0.0 - 14.0	Casing.		
	14.0 - 574.0	Basalt ± CQS&T.		
1	17.0 - 18.0	15% Py, 4% Cp/1"	= 1.0 ft	= 0.01 oz Au/t Metallic
2	95.7 - 96.2	4% Ph, 2% Cp	= 0.5 ft	= <0.001 Au + 1/2% Cu
3	139.0 - 140.0	10% Ph, 3% Cp	= 1.0 ft	= 0.004 oz Au
4	302.5 - 304.0	QCS&T, 3% Py	= 1.5 ft	= <0.001 oz Au
5	397.5 - 381.7		2.2 ft	= <0.001 oz Au
	574.0 - 609.0	Carbonate Flooding by Stringers and Veins.		
6	598.0 - 603.0	20% C, 1%-3% Py = 5.0 ft		
	609.0 - 744.0	Basalt as at start.		
	744.0 - 800.0	Gabbro, rice grain, chloritic.		
	800.0	END OF HOLE.		

DIAMOND DRILL LOG (INTO ANOMALY NO.1)

PROPERTY: Ross Island Resources Inc. (Pipestone Lake) HOLE NUMBER: 3

LOCATION: Claim 1001130, 480 ft E of WP#4 DIP TESTS

				Footage	Reading	Corrected
Latitude:	507 m Grid North	Dip:	52°			
Departure:	1355 m East	Depth:	620 feet	550		49°
Elevation:	Pond + 4 ft	Commenced:	Mar.21, 1989			
Azimuth:	200° True	Finished:	Mar.25, 1989	Logged by:	Michael Ogden	

SAMPLE NUMBER	DESCRIPTION	Width ft	Met Au oz/t
	0.0 - 44.0 Casing. Some boulders, after 20 ft, pea size, clean gravel, very difficult to penetrate, collar moved. Mud used.		
	44.0 - 135.0 Basalt, slightly carbonated, dark green, sugary grained, even textured rock, criss-crossed with C&QC, S&T at various angles. There are a few 1/2" to 1 ft gradational sections of spotted rock like a vesicular lava or possible flow top.		
16815	52.0 - 53.2 QC vein @ 25°, 2% Py and Ph = 1.2 ft.	1.2	0.009
16816	77.8 - 79.5 = 1.7 ft, /2" blue Q&C vein @ 15° plus 4% Ph and Py, trace Cp plus numerous QCS&T at various angles and 1% Ph.	1.7	0.004
16817	101.5 - 102.5 Blue QV @ 45°, VLM = 1.0 ft.	1.0	<0.001
16818	106.8 - 168.8 = 2.0 ft = 2 QC veins of 1" @ 15° plus 2% Py.	2.0	0.002
	135.0 - 182.0 As above but siliceous, i.e. harder, less carbonated, fewer QCS&T and darker grey about 1/2% F.Py. Contacts are gradational. This may be an aplite.		
	182.0 - 215.0 Basalt as at start, slightly carbonated, a few scattered CT&S, mostly @ 45°.		
	215.0 - 287.0 Gabbro, rice grained, even textured, with gradational initial contact over 5 ft, i.e. increasing grain size. There are scattered QCS&T at various angles and a few strain zones of a few inches to a few feet. 1/2%-1% F.Py.		

Sample Number	Description		Width Ft.	Met Au oz/t
	230.0	3" shear @ 25°.		
	236.0 - 240.0	Strain zone @ 30°.		
16820	240.0 - 242.5	Grey siliceous carbonate zone @ 45° with 1% F.Py. = 2.5 ft.	2.5	0.002
	259.0 - 261.0	Late C shear @ 60° of 3" plus vague C zone, NVM.		
	275.0	Vague shear over 1 ft @ 45°.		
	287.0 - 292.0	Basalt, initial contact gradational.		
	292.0 - 310.6	Gabbro as above.		
16821	306.8 - 310.6	Grey bleached siliceous zone 2% Ph and Py = 3.8 ft. Very fine S.	3.8	0.002
	310.6 - 343.0	Quartz Porphyry, a grey, even textured, 25% quartz eyes, of rice to pea size in a fine grained feldspathic groundmass. Initial contact sheared @ 40°, final is similar.		
	343.0 - 356.0	Carbonated basalt,light grey, uneven textured rock.		
	356.0 - 384.0	Black and white QCST&V lacerated @ 20° to core. Basalt with scattered Q eyes like the previous porphyry but in a softer matrix. There are rare short sections (1" to 1 ft) of 4%-15% Py.		
16855	356.0 - 358	CS&T @ 10°, VLM, 1/2% Py	2.0	<0.001
16854	371.4 - 372.6	= CS&V plus Q veinlets, plus 4% Py.	1.2	<0.001
	381.7 - 382.3	= 0.6 ft with a vague QS&V over 1" @ 30° plus 10% Py.		
	384.0 - 447.0	Quartz eye carbonated basalt, dark grey-green, fairly even textured with many scattered CS&T @ 30°-45°. A few 1"-2" shears @ 10°-20°.		

Sample Number		Description	Width Ft.	Met Au oz/t
	447.0 - 481.0	Lacerated with carbonate basalt shear @ 25°-70° ± Py. No Q eyes.		
16822		453.0 - 458.0 As above with 20% Q, 7% sulphides, mostly Py, some Ph and a little Cp.	5.0	<0.001 PPM 470 Cu
		460.0± Shearing @ 60°±.		
		470.0± Shearing @ 0-30°.		
		Final contact gradational.		
	481.0 - 620.0	Sugary grained gabbro, dark green, uneven textured with many little 1/4"-2" black shears @ 45°± and scattered QCS&T @ 10°-50°.		
16823		486.5 - 491.5 = 5.0 ft of 2%-3% S, mostly S&T of Ph + Py, first 2-1/2 ft = QV & QCS, last 2-1/2 = fractured basalt.	5.0	0.001 PPM 220 Cu 64 Zn
		511.0 - 516.0 Contorted siliceous zone of CS&T.		
16824		532.0 - 534.0 = 2.0 ft of siliceous zone @ 40°, 2% Py, 1/2 of which is very fine grained plus carbonate.	2.0	<0.001
		555.0 - 556.0 Q&CSV&T @ 35°, 1% Py maximum.		
16825		586.0 - 586.8 = 0.8 ft Hvy sulphides @ 40°, 20% Ph plus some Py and Cp.	0.8	0.008 PPM (0.2% = 1700 Cu 54 Zn 38 Ni
		587.0 - 591.0 QS&V plus C @ 45°, VLM		
		616.0 - 617.0 Vague shear @ 45° plus QCS&T, VLM.		
	620.0	END OF HOLE.		

Sample Number	Description	Width Ft.	Met Au oz/t

SUMMARY LOG OF DDH.3

0.0 - 44.0	Casing into pea gravel
44.0 - 215.0	Basalt, various QCS&T
215.0 - 310.0	Gabbro
310.0 - 343.0	Quartz porphyry
343.0 - 356.0	Carbonated basalt
356.0 - 384.0	Sheared QCS&T basalt
384.0 - 447.0	Quartz eye basalt
447.0 - 481.0	Sheared QCS&T basalt
481.0 - 620.0	Gabbro.
620.0	END OF HOLE.

DIAMOND DRILL LOG (INTO S. END ANOMALY NO.7)

PROPERTY: Ross Island Resources Inc. (Pipestone Lake) HOLE NUMBER: 4

LOCATION: Centre of Claim 928064, 600 ft S of No.1 Post and 550 ft W

Latitude: 96 m North Dip: 45° DIP TESTS

Departure: L 5300 m East Depth: 300 ft. Footage Reading Corrected

Elevation: Lake + 2 ft Commenced: Mar.25, 1989 Tube shattered

Azimuth: Grid North = 322° Finished: Mar.26, 1989 Logged by: Michael Ogden

SAMPLE NUMBER	DESCRIPTION	Width ft	Met Au oz/t
	0.0 - 16.0 Casing.		
	16.0 - 215.0 Gabbro, coarse sugar to rice size grain 1/2%-1% disseminated pyrite.		
	23.0 - 25.0 5 or 6, 1/2" to 1" brecciated green felsite dykes @ 90°, NVM. A few 1/2" to 1" Q&CV, e.g. @ 28 ft, 29 ft, 32 ft.		
	40.0 - 60.0 QCS&V @ 45°+ (about 1/ft), still 1% disseminated Py.		
	70.0 - 105.0 Fairly massive gabbro, even textured, the odd Q&QC&V @ 40°+ plus blue quartz eyes, plus about 2% disseminated Py, locally to 3% or 4% over 1 to 2 feet.		
	104.0 - 100.0 2%-3% Py and same from 119-123.		
	126.0 - 127.0 Sheared gabbro (to b) @ 80°.		
16826	127.0 - 129.0 2% sphalerite = 2.0 ft.	45 ppb Gold = 0.001 Oz	210 ppm Zinc = 0.02% Zn
	133.0 - 136.0 2%-3% Py.		
	138.0 Weak shear @ 60°/6 inches.		
	141.0 Weak shear @ 60°/6 inches.		
	154.0 - 162.0 2%-3% Py.		
	165.0 - 165.5 Dark felsitic dyke @ 75°.		
	170.0 1" ditto @ 65°.		

Sample Number		Description	Width ft	Met Au oz/t
	175.0 - 186.0	2% Py.		
	215.0 - 229.0	Altered gabbro, lineation of grain @ 75°, the mafic is altered to grey clay mineral.		
	229.0 - 300.0	Gabbro, slightly finer grained than at start, a little altered.		
		233.0 - 238.0 Sheared talcose gabbro last 2-3 ft with QCS&T @ 60°.		
16827		261.0 - 262.0 QV @ 80°, VLM.	1.0	<0.001
		281.0 - 289.0 Gabbro sheared @ 80° to a basalt.		
		294.0 5" QCV @ 85°.		
		299.0 6" CQV @ 75°.		
		295.0 - 300.0 Sheared gabbro.		
	300.0	END OF HOLE.		

Sample Number	Description	Width ft	Met Au oz/t

SUMMARY LOG OF DDH.4

0.0 - 16.0 Casing.

16.0 - 300.0 Gabbro, VLM.

106 = 4 ft. of 2%-3% Py
120 = 4 ft. of 2%-3% Py
128 = 2 ft. of 2% sphalerite
135 = 3 ft. of 2%-3% Py
158 = 8 ft. of 2%-3% Py
180 = 11 ft. of 2%-3% Py

215-229 = 14 ft. altered gabbro including clay minerals

235 = 5 ft. sheared talcose gabbro @ 60°
285 = 8 ft. sheared gabbro

295-300 = Sheared gabbro

300.0 END OF HOLE.

DIAMOND DRILL LOG (INTO ANOMALY NO.7)

PROPERTY: Ross Island Resources Inc. (Pipestone Lake) HOLE NUMBER: 5

LOCATION: Claims 928065 & 066 from Common 2 & 3 Post
200 ft East and 50 ft North

Latitude: 118 m North Dip: 45°

Departure: L 5600 m East Depth: 650 feet

Elevation: Lake + 8 m Commenced: Mar.26, 1989

Azimuth: Grid N = 322° Finished: Mar.28, 1989 Logged by: Michael Ogden

DIP TESTS

Footage	Reading	Corrected
270		42°
500		40°

SAMPLE NUMBER	DESCRIPTION	Width ft	Met Au oz/t
	0.0 - 5.0 Casing, bedrock set-up.		
	5.0 - 102.0 Gneissic gabbro, rice to sugary grain, even textured with lineation @ 80° to core, salt and pepper, dark green. 1%+ Py disseminated.		
	36.0 - 47.0 = 11 ft of sheared gabbro lacerated @ 80° with QCS&T plus 3% fine Py.		
16828	40.0 - 45.0 = 5 ft Hvy QC, 5%+ Py. A sample of above.	5.0	<0.001
16829	66.2 - 66.8 0.6 ft = QCV and breccia plus 6% Py.	0.6	0.051
	60.0 on A few QCS at some QS @ 80°.		
16830	92.0 - 94.5 = 2.5 ft lacerated with QV&S plus some CS @ 80°, plus 1%-2% Py, very fine, has a pink cast like granite.	2.5	<0.001
	95+ The lineation @ 80° fades into massive rice grained gabbro @ 102 ft.		
	102.0 - 183.0 Massive gabbro, no S or V or T, with irregular plums of coarser grained less altered gabbro partially consumed.		
	183.0 - 236.0 Gneissic gabbro @ 70°, 1% Py as before. The odd C&QCS parallel to foliation.		
	229.0 QC and actinolite @ 30° over 6".		

Sample Number		Description	Width ft	Met Au oz/t
	236.0 - 254.0	Basalt, green, flour grained, mild foliation @ 70°; contact sharp @ 65°, unchilled, with Q&QCS&V for 3" on both sides in a zone of shearing.		
		251.0 3" QCV @ 45°, NVM.		
	254.0 - 287.0	Sugary grained gabbro, massive.		
		273.0 - 275.0 Q&QCS&T @ 90° 280.0 - 284.0 Similar, not so many.		
	287.0 - 311.0	Basalt feldspar porphyry, with rice to cherry size eroded feldspar phenocryst heavily scattered throughout. Usual 1% Py, very few QCS or T. Both contacts sheared @ 80°.		
	311.0 - 339.0	Sugary gabbro as above but with a few sheared sections @ 70°±, e.g.:		
		328 for 1 ft 332 for 2 ft 335 for 1 ft 319 = 1/8" seam @ 45° mostly Q with azure blue colour.		
	339.0 - 359.0	Basalt with QCS&T mostly @ 90°.		
16831		339.0 - 342.5 heavily stringered, 2%-3% Py = 3.5 ft, after which less S&T to 359 ft.	3.5	<0.001
	359.0 - 475.0	Sheared basalt @ 70°±, with only a few QS & QCS&T, 1% Py.		
		394.0 - 434.0 Multiple QCS&T and odd V @ 70°.		
16832		404.0 - 409.0 More heavily stringered, 2% Py.	5.0	<0.001
		403.0 8" intermittent grey Q.		
		428.0 - 429.0 Shearing contorted.		
		453.0 - 458.0 Frequent CS&T @ 90°, VLM.		
		460.0 - 475.0 Frequent CS&T @ 80°, VLM.		

Sample Number		Description	Width ft	Met Au oz/t
	475.0 - 571.0	Major carbonate shear zone @ 75° on average. Light grey and lacerated with black and white stringers and threads (S&T) of chlorite/ biotite and stringers and threads and the odd vein of carbonate, quartz carbonate and quartz.		
				PPB Au
16834		475 = 12" grey C zone, sheared ± Cpy.		<5
16835		480 = 8" chloritic schist, 2% Py.		5
16836		485 = 8" chloritic schist, trace Py.		5
16837		490 = 8" chloritic schist, 1% Cpy.		5
16838		495 = 8" contorted QCS fractured, NVM.		<5
16839		500 = 8" black and white QC and chlorite @ 90° to core.		<5
16840		505 = 8" contorted 1% Py.		5
16841		510 = 8" plain sheared QC.		<5
16842		515 = 6" QCS&V @ 75°.		10
16843		521 = 8" Q plus QCS&T, 1% Py.		<5
16844		525 = 8" QC veinlets @ 80°.		<5
16833		528.5 - 530.5 6" granitic quartz dyke parallel to shearing plus shear zone, plus 2% Py in one or two heavy bands. Assay for met. gold	2.0 ft	<0.001 Met Au
16845		531 = 6" C zone & QCST, NVM.		<5
16846		538 = 6" 20% coarse Py parallel to shearing @ 40°, plus QCS		10
16847		540 = 6" 3% Py QCV&S.		<5
16848		545 = 8" QV&S plus QCS&T, 1% Py.		<5
16849		550 = 8" QCS&T plus hematite threads, all @ 35°.		5
16850		555 = 8" CS&T ± QC, NVM.		<5
16851		560 = 8" Lumpy Q veinlets plus QCS, contorted. NVM.		<5
16852		565 = 8" Meandering CS ± Q. NVM. Not as altered.		5
16853		570 = 6" A few CS&T @ 80°.		<5
	571.0 - 640.0	Sugary grained gabbro, almost massive, just a weak lineation @ 70°.		
		587.0 - 594.0 Many QC & QSV & T @ 45° to core. VLM.		
		616.0 - 624.0 Shearing plus a few CS&T @ 80°. 617-619 = 3% Py.		

Sample Number	Description	Width ft	Met Au oz/t
	626.0 - 627.0 Shear plus 2" QV @ 70°.		
	627.0 - 640.0 Rice grained gabbro with intermittent lineation @ 70°.		
640.0	END OF HOLE.		

SUMMARY LOG OF DDH.5

0.0 - 5.0	Casing.	
5.0 - 102.0	Gneissic gabbro.	
102.0 - 183.0	Massive gabbro.	
183.0 - 236.0	Gneissic gabbro.	
236.0 - 254.0	Basalt.	
254.0 - 287.0	Massive gabbro.	
287.0 - 311.0	Basalt.	
311.0 - 339.0	Massive gabbro.	
339.0 - 359.0	Basalt.	
359.0 - 475.0	Basalt, sheared @ 70°.)	
475.0 - 571.0	Carbonate shear.)	190 ft shear zone
571.0 - 640.0	Gneissic Gabbro.)	
640.0	END OF HOLE	

Note: True width of carbonate shear @ 75° angle and 40° dip to hole = 60 ft. It must come to surface at 310 to 370 ft from collar and dip grid north at 84°, otherwise it would dip grid south at 36° which is unlikely.

DIAMOND DRILL LOG (INTO ANOMALY NO.10)

PROPERTY: Ross Island Resources Inc. (Pipestone Lake) HOLE NUMBER: 6

LOCATION: On Claim Line 940157 & 158 at 250 ft South from 4 & 1 Posts respectively. DIP TESTS

Latitude: 620 m South Dip: Vertical Footage Reading Corrected

Departure: L 6400 East Depth: 135 feet

Elevation: Lake Commenced: Mar.28, 1989

Azimuth: Nil Finished: Mar.29, 1989 Logged by: Michael Ogden

SAMPLE NUMBER	DESCRIPTION	Width ft	Met Au oz/t
	0.0 - 55.5 Water.		
	55.0 - 135.0 Fine sandy clay, no boulders.		
	135.0 END OF HOLE.		
	Note: Hole abandoned at 135 feet because that depth is considered to be underneath the I.P. anomaly. In other words, the I.P. anomaly is in the upper portions of the clay drilled.		

DIAMOND DRILL LOG (INTO ANOMALY NO.3)

PROPERTY: Ross Island Resources Inc. (Pipestone Lake) HOLE NUMBER: 7

LOCATION: Claim 940176, 100 ft. S of No.4 W.P. on Point and 250 ft. E

Latitude: 209 m South Dip: 45°

Departure: L 2300 m East Depth: 830 feet

Elevation: Lake + 2 ft. Commenced: Mar.16, 1989

Azimuth: Grid S = 142° Finished: Mar.19, 1989 Logged by: Michael Ogden

DIP TESTS

Footage	Reading	Corrected
350		41°
750		34°

SAMPLE NUMBER	DESCRIPTION	Width ft	Met Au oz/t
	0.0 - 25.0 Casing.		
	25.0 - 31.0 Massive greywacke, the Feldspathic Sandstone, as G. R. Edwards named it in 1983 when making Map 2430 for the Ontario Geological Survey. A sugary grained, greenish-grey, even textured rock of 90%-95% feldspar with a little quartz and mafic minerals. It is massive until within a foot of the final contact, vague banding @ 45° starts and grades into the ensuing closely banded slate.		
	31.0 - 44.0 Grey and dark grey magazine thick bedding @ 45°, sugary grained greywacke, grading into closely banded black, graphitic slate from 37-41 ft.		
16801	34.5 - 36.0 Two almost black QV parallel to bedding with 3% Py = 1.5 ft.	1.5	<0.001
	41.0 - 42.0 Black slate with 5% fine Py and a little Cp inthe bedding.		
	44.0 - 62.0 Mostly massive greywacke.		
	62.0 - 87.0 Black graphitic slate. Closely banded with threads of massive Py in the bedding @ 40° to 45°. Total Py content is about 6%. The odd speck of Cp.		
16802	79.0 - 84.0 As above = 5.0 ft.	5.0	0.01 PPM 350 Cu 1670 Zn
16803	86.0 - 87.0 Black QV's of 1/4" to 1" parallel to bedding with 7% Py, 3% pyrrhotite (Ph) and maybe 1% Cp = 1.0 ft.	1.0	<0.001 PPM 310 Cu 730 Zn

Sample Number	Description		Width ft	Met Au oz/t
	87.0 - 278.0	Mostly massive greywacke as before, finer grained, almost flour, still with vague banding @ 45°, the odd thread of calcite.		
		117.0 - 118.0 Mixed zone of C with some Q. NVM.		
		118.0 - 123.0 Numerous CS&T @ 30° to 60°.		
		155.0 - 213.0 Frequent CS&T at various angles, often across the vague bedding.		
		197.0-198.0 Black irregular quartz and minor breccia @ 80° and 30°.		
		226.0 - 256.0 Frequent CS&T like 155-213 ft.		
		255.0 1" of 20% Ph, 4% Cp @ 40°, parallel to bedding.		
	278.0 - 318.0	Sugary size grain greywacke as at start but with clear lineation of grain @ 45°.		
		298.0 - 318.0 A few irregular CS&T.		
	318.0 - 368.0	Grey banded slate with much CSTV and sometimes the matrix of breccia plus some black slate sections.		
		318.0 - 323.0 Black pyritic graphite slate @ 30°-25° to core.		
16804		320.0-323.0 10% Py, 1% Cp some of the centre section is parallel to the core, i.e. down-dip of hole = 3.0 ft of	3.0	<0.001 PPM 400 Cu 1730 Zn
		340.0 - 350.0 Black graphitic slate (BGS), 2%-10% Py, 1%± Cp @ 0° to 15° to core.		

Sample Number		Description	Width ft	Met Au oz/t
16805	345.0 - 348.0	3.0 ft of 10% Py, 5% Ph, 2% Cp.	3.0	0.002 PPM 1050 Cu 1930 Zn
	348.0 - 356.0	Shatter zone, part breccia, carbonate matrix.		
	360.0 - 362.0	Mostly black slate along core, sinuous, only 4% sulphides, lots C.		
	368.0 - 421.0	Greywacke, sugary grain, vague banding @ 45°, scattered CS&T at various angles.		
	421.0 - 580.5	Carbonated greywacke. Many CS&T at various angles, becoming lacerated with them after 436 ft.		
16806	453.5 - 454.0	Grey QV/4" @ 90° to core. NVM = 0.5 ft of	0.5	<0.001
	476.0 - 477.0	Breccia with C matrix parallel to bedding. 3% Py.		
16807	500.5 - 503.7	= 3.2 ft 7% fine Py plus Ph + Cp in S parallel to bedding @ 45° plus some minor breccia.	3.2	<0.001
	527.5	Three CV of 1/4" to 1/2" over 1/2 ft.		
	555.0	1" QV @ 60° vs bedding @ 38°.		
	556.0 - 559.0	Breccia zone, 40% carbonate mostly as matrix.		
16808	564.0 - 566.3	Grey QV @ 80° with a few specks of Py and Cp, approx. 1% or less.	2.3	0.001
	567.0	3" C matrix breccia @ 40° parallel to bedding.		

Sample Number		Description	Width ft	Met Au oz/t
	570.0 - 572.0	Some irregular grey Q mostly @ 80° (25% Q).		
	576.0 - 581.0	Strain zone roughly parallel to core with CS&T and three cross veins of C (1/2") @ 80°.		
	580.5 - 606.0	Gabbro, rice grained, even textured, initial contact sharp, vaguely chilled @ 25°. Final contact gradational. There is a vague lineation of grain parallel to adjacent bedding.		
	606.0 - 710.0	Carbonate greywacke by CSV&T like 436-580 ft. The bedding is now 30° almost consistently.		
	656.0	2" band of multiple QCS @ 80°. 2% Py.		
	673.0 - 657.0	Grey with CS&T @ 30° and some breccia, C matrix.		
	692.0	1/2" QV @ 80°.		
	696.0 - 697.0	Weak breccia.		
	710.0 - 830.0	Dioritic greywacke with an intermittent contact over 5 or so feet. A sugary grained rock of 1/2 and 1/2 acidic/mafic but with much black and grey irregular remnant bedding @ 40°. Still lacerated with CT parallel to bedding.		
	737.0	1/2" grey QV @ 60°, remnant bedding @ 40°.		
	745.0	4" wide zone irregular grey Q parallel to bedding (PTB).		
	764.0	1/2" grey QV @ 65°, NVM.		
16809	761.2 - 761.7	= 0.5 ft with CV of 2" PTB @ 60°, 2% Py.	0.5	<0.001
16810	790.5 - 791.5	8" QV plus some feldspar crystals, all @ 80°. NVM.	1.5	<0.001

Sample Number		Description	Width ft	Met Au oz/t
16812	804.7 - 808.2	= 3.5 ft well C zone. 4" CQ mass at start. 806-807 = 3% Ph and Cp in S&T PTB.	3.5	0.002
16811	808.2 - 808.6	= 0.4 ft of grey, 3" QV @ 75° with 4% Ph, Cp and some Py.	0.4	0.001
16813	813.0 - 815.2	Breccia zone of grey Q & C plus 3% Ph, Cp + Py for 1.2 ft then mostly C and 1% Ph, trace Cp = 2.2 ft.	2.2	0.001
	820.0 - 830.0	Becoming almost black, more graphitic? with 2%-5% Ph in S&T and numerous specks of Cp.		
16814		820.0 - 826.0 4% Ph, 1/2% Cp.		0.001 PPM 520 Cu
	830.0	END OF HOLE.		

The last 100± feet might be altered basalts.

Sample Number	Description	Width ft	Met Au oz/t

SUMMARY LOG OF DDH.7

0.0 -	25.0	Casing.
25.0 -	31.0	WK (greywacke).
31.0 -	44.0	S = black graphitic slates.
44.0 -	62.0	WK
62.0 -	87.0	S
87.0 -	318.0	WK
318.0 -	368.0	S
368.0 -	421.0	WK
421.0 -	580.0	Carbonated WK
580.0 -	606.0	G = gabbro
606.0 -	820.0	C WK
820.0 -	830.0	S weak
830.0		END OF HOLE.

ACTLABS

ACTIVATION LABORATORIES LTD

P.O. Box 1420, 383 Elgin St., Unit 17, Brantford, Ontario, Canada N3T 5T6
Telephone (519) 758-0310 ■ Fax (519) 758-8766

Invoice No.: 793
Work Order: 821
Invoice Date: 16-MAR-89
Your Reference: NONE
Account Number: T020

ROSS ISLAND RESOURCES INC.
#910-335 BAY STREET
TORONTO, ONTARIO
M5H 2R3
ATTN: IVAN CHRISTOPHER

No. samples	Description	Unit Price	Total
5	V.G. ASSAYS	$35.00	$175.00
1	AU ASSAY	9.75	9.75
2	CU DET'NS	2.30	4.60
	FREIGHT CHARGES		8.95
			$198.30

AMOUNT DUE: $198.30

Net 30 days 1 1/2 % per month charged on overdue accounts.
$

ACTLABS

ACTIVATION LABORATORIES LTD

P.O. Box 1420, 383 Elgin St., Unit 17, Brantford, Ontario, Canada N3T 5T6
Telephone (519) 758-0310 ■ Fax (519) 758-8766

Invoice No.: 815
Work Order: 833
Invoice Date: 31-MAR-89
Your Reference: NONE
Account Number:

ROSS ISLAND RESOURCES INC.
#910-335 BAY ST.
TORONTO, ONTARIO
M5H 2R3

ATTN: IVAN CHRISTOPHER

CERTIFICATE OF ANALYSIS

ELEMENT	DETECTION LIMIT
-METALLIC SCREEN	.001 OZ/TON
AA	
CU	1 PPM
ZN	1 PPM
NI	1 PPM

CERTIFIED BY :

DR. ERIC L. HOFFMAN

ACTIVATION LABORATORIES LTD WORK ORDER 521 REPORT 793

SAMPLE #	AU OZ/T +100	AU OZ/T -100	AU OZ/T TOTAL	WT G +100	WT G -100	WT G TOTAL	AU OZ/T	CU PPM
1	.006	.010	.010	49	367	416		
2	---	---	---	---	---	---	<.001	4500
3	<.001	.005	.004	40	335	375		1200
4	<.001	<.001	<.001	49	637	656		
5	.002	<.001	<.001	89	1234	1323		
6	<.001	<.001	<.001	96	1952	2045		

Entered on Sht No 2

ACTLABS

ACTIVATION LABORATORIES LTD

P.O. Box 1420, 383 Elgin St., Unit 17, Brantford, Ontario, Canada N3T 5T6
Telephone (519) 758-0310 ■ Fax (519) 758-8766

Invoice No.: 805
Work Order: 826
Invoice Date: 23-MAR-89
Your Reference: NONE
Account Number:

ROSS ISLAND RESOURCES INC.
#910-335 BAY STREET
TORONTO, ONTARIO
M5H 2R3
ATTN: IVAN CHRISTOPHER

No. samples	Description	Unit Price	Total
26	V.G. ASSAYS	$35.00	$910.00
	FREIGHT CHARGES		43.95

AMOUNT DUE: $953.95

Net 30 days 1 1/2 % per month charged on overdue accounts.

ACTIVATION LABORATORIES LTD. WORK ORDER 826 REPORT 805

SAMPLE	AU OZ/T +100	AU OZ/T -100	AU OZ/T TOTAL	WT G +100	WT G -100	WT G TOTAL
======	<==========	<==========	<==========	<=======	<=======	<=======
7	.137	.018	.023	44	1018	1062
8	.053	.003	.003	4	555	559
9	.001	<.001	<.001	128	1699	1827
10	.004	.002	.002	15	738	753
11	.041	<.001	.002	65	1083	1148
12	<.001	<.001	<.001	41	1469	1510
13	.004	.005	.005	89	1186	1275
14	.027	.012	.013	59	1332	1391
15	.025	.004	.005	105	2050	2155
16	<.001	<.001	<.001	25	1986	2011
17	<.001	<.001	<.001	84	2067	2151
18	.004	<.001	<.001	49	932	981
19	.001	.002	.002	43	1938	1981
20	<.001	<.001	<.001	12	563	575
21	<.001	<.001	<.001	94	1514	1608
22	<.001	.001	.001	99	1662	1761
23	.001	.001	.001	112	1162	1274
24	<.001	<.001	<.001	32	1143	1175
25	.006	.002	.002	10	262	272
26	.001	<.001	<.001	90	1085	1175
27	.001	<.001	<.001	125	1910	2035
28	<.001	<.001	<.001	37	1438	1475
29	<.001	.001	.001	38	488	526
30	.002	.001	.001	91	1472	1563
31	.001	.004	.004	41	294	335
32	<.001	.005	.004	31	258	289

Entered on Log of Hole #1

ACTLABS

ACTIVATION LABORATORIES LTD

P.O. Box 1420, 383 Elgin St., Unit 17, Brantford, Ontario, Canada N3T 5T6
Telephone (519) 758-0310 ■ Fax (519) 758-8766

Invoice No.: 809
Work Order: 830
Invoice Date: 27-MAR-89
Your Reference: NONE
Account Number:

ROSS ISLAND RESOURCES INC.
#910-335 BAY ST.
TORONTO, ONTARIO
M5H 2R3

ATTN: IVAN CHRISTOPHER

No. samples	Description	Unit Price	Total
8	V.G. ASSAYS	$35.00	$280.00
6	AU ASSAYS	9.75	58.50
4	CU, ZN DET'NS	3.45	13.80
1	CU DET'N	2.30	2.30
	FREIGHT CHARGES		19.95
			$374.55

AMOUNT DUE: $374.55

Net 30 days 1 1/2 % per month charged on overdue accounts.
$

ACTIVATION LABORATORIES LTD. WORK ORDER 830 REPORT 809

SAMPLE NAME	AU OZ/T +100	AU OZ/T -100	AU OZ/T TOTAL	WT G +100	WT G -100	WT G TOTAL
16801	<.001	<.001	<.001	65	715	780
16806	.003	<.001	<.001	36	243	279
16808	<.001	.001	.001	67	985	1052
16809	<.001	<.001	<.001	45	220	265
16810	<.001	<.001	<.001	26	552	578
16811	<.001	.001	.001	30	241	271
16812	.004	.002	.002	85	2172	2257
16813	<.001	.001	.001	96	1115	1211

Entrance - Hole #7

ACTIVATION LABORATORIES LTD. WORK ORDER 830 REPORT 809A

SAMPLE NAME	Au_ozt	Cu_ppm	Zn_ppm
16802	.010	350	1670
16803	<.001	310	730
16804	<.001	400	1730
16805	.002	1050	1930
16807	<.001		
16814	.001	520	

Enlarge Hole 7

ACTLABS

ACTIVATION LABORATORIES LTD

P.O. Box 1420, 383 Elgin St., Unit 17, Brantford, Ontario, Canada N3T 5T6
Telephone (519) 758-0310 ■ Fax (519) 758-8766

Invoice No.: 815
Work Order: 833
Invoice Date: 31-MAR-89
Your Reference: NONE
Account Number:

ROSS ISLAND RESOURCES INC.
#910-335 BAY ST.
TORONTO, ONTARIO
M5H 2R3

ATTN: IVAN CHRISTOPHER

No. samples	Description	Unit Price	Total
9	V. G. ASSAYS	$35.00	$315.00
2	AU DET'NS	9.75	19.50
2	SAMPLE PREPARATION	4.00	8.00
1	CU, ZN DET'NS	3.45	3.45
1	CU, ZN, NI DET'NS	4.60	4.60
	FREIGHT CHARGES		12.95
			$363.50

AMOUNT DUE: $363.50

Net 30 days 1 1/2 % per month charged on overdue accounts.

ACTLABS

ACTIVATION LABORATORIES LTD

P.O. Box 1420, 383 Elgin St., Unit 17, Brantford, Ontario, Canada N3T 5T6
Telephone (519) 758-0310 ■ Fax (519) 758-8766

Invoice No.: 818
Work Order: 838
Invoice Date: 07-APR-89
Your Reference: NONE
Account Number:

ROSS ISLAND RESOURCES INC.
#910-335 BAY ST.
TORONTO, ONTARIO
M5H 2R3

ATTN: IVAN CHRISTOPHER

No. samples	Description	Unit Price	Total
9	V.G. ASSAYS	$35.00	$315.00
21	AU DET'NS	8.65	181.65
21	SAMPLE PREPARATION	4.00	84.00
1	ZN DET'NS	2.30	2.30
			$582.95

AMOUNT DUE: $582.95

Net 30 days 1 1/2 % per month charged on overdue accounts.
$

ACTIVATION LABORATORIES LTD. WORK ORDER 833 REPORT 815

SAMPLE NAME	AU OZ/T	AU OZ/T	AU OZ/T	WT G	WT G	WT G	CU PPM
16815	.031	.007	.009	40	476	516	
16816	.033	.003	.004	36	886	922	
16817	<.001	<.001	<.001	26	418	444	
16818	<.001	.002	.002	67	813	880	
16819	<.001	<.001	<.001	50	2165	2215	
16820	.002	.002	.002	57	809	866	
16821	.001	.002	.002	65	1891	1956	
16822	<.001	<.001	<.001	63	1875	1938	470
16824	<.001	<.001	<.001	69	720	789	

Entirely on hole 3.

ACTIVATION LABORATORIES LTD. WORK ORDER 833 REPORT 815A

SAMPLE NAME	Au_ozt	Cu_ppm	Zn_ppm	Ni_ppm
16823	.001	220	64	
16825	.008	1700	54	38

ACTIVATION LABORATORIES LTD WORK ORDER 838 REPORT 818

SAMPLE NAME	AU OZ/T +100	AU OZ/T -100	AU OZ/T TOTAL	WT G +100	WT G -100	WT G TOTAL
16827	<.001	<.001	<.001	56	353	409
16828	<.001	<.001	<.001	93	2516	2609
16829	.085	.047	.051	34	279	313
16830	<.001	<.001	<.001	90	1465	1555
16831	<.001	<.001	<.001	53	1654	1707
16832	<.001	<.001	<.001	83	2292	2375
16833	<.001	<.001	<.001	64	1138	1202
16854	<.001	<.001	<.001	73	480	553
16855	<.001	<.001	<.001	90	786	876

Entered Table 3

SAMPLE NAME	AU_PPB	ZN_PPM
16826	45	210
16834	<5	
16835	5	
16836	5	
16837	5	
16838	<5	
16839	<5	
16840	5	
16841	<5	
16842	10	
16843	10	
16844	<5	
16845	<5	
16846	10	
16847	<5	
16848	<5	
16849	5	
16850	<5	
16851	<5	
16852	5	
16853	<5	

Entered Table 5-43

W8901.151

Ministry of Northern Development and Mines

Ontario

Report of Work

(Geophysical, Geological, Geochemical and Expenditure

52F04SE0005 2.12532 DASH LAKE

900

2.12532

Mining Act — Do not use shaded areas below.

Type of Survey(s): PROPERTY EVALUATION BASED ON DIPOLE-DIPOLE I.P. ASSAYS & DIAMOND DRILL. Township or Area: DASH LAKE (G2671)

Claim Holder(s): ROSS ISLAND RESOURCES INC. Prospector's Licence No: T-5028

Address: SUITE 910, 335 BAY ST., TORONTO. M5H 2R3

Survey Company: MERTENS & MACNEIL LTD, PATERSON GRANT & WATSON Date of Survey (from & to): 12 1 89 (Day Mo Yr) 16 5 89 (Day Mo Yr) Total Miles of line Cut: 2.5

Name and Address of Author (of Geo Technical report): MICHAEL OGDEN, RR-4 STOUFFVILLE, L4A 7X5.

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical - Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical - Electromagnetic	
	- Magnetometer	
	- Radiometric	
	Geological	
	Geochemical	

RECEIVED
JUN 8 1989
MINING LANDS SECTION

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys	Electromagnetic	
	Magnetometer	
	Radiometric	

Expenditures (excludes power stripping)

Type of Work Performed: AS ABOVE IN TYPE OF SURVEY

Performed on Claim(s): SEE REVERSE SIDE FOR LIST.

Calculation of Expenditure Days Credits

Total Expenditures: $38,767.50 ÷ 15 = Total Days Credits: 2584

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Date: JUNE 3/89 Recorded Holder or Agent (Signature): Michael Ogden

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Number	Expend. Days Cr.
K	887802	
ETC		

PUT IN 13 ANA FOR NOW. I WILL DISTRIBUTE ON APPROVAL.

M.O.

KENDORA MINING DIV RECEIVED JUN - 8 1989 AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

887802

Total number of mining claims covered by this report of work: 93

For Office Use Only

Total Days Cr. Recorded: Recorded

Date Recorded: JUNE 8/89

Date Approved as Recorded:

Mining Recorder: [signature]

25 July 89 DR

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: MICHAEL OGDEN, RR 4 STOUFFVILLE, ONT. L4A 7X5

Date Certified: JUNE 3/89 Certified by: Michael Ogden

Assessment Work Breakdown

Man Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performe[illegible] ...y consultants, draftsmen, etc..

Type of Survey

Technical Days				Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
	X	7	=		+		=		÷		=	

Type of Survey

Technical Days				Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
	X	7	=		+		=		÷		=	

Type of Survey

Technical Days				Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
	X	7	=		+		=		÷		=	

Type of Survey

Technical Days				Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
	X	7	=		+		=		÷		=	

THE FOLLOWING CLAIMS WERE PARTIALLY CHECK SURVEYED AND/OR DRILLED & ASSAYED

887802
887803
908189
928063 - 928066 INCL.
928068
928070 - 928073 INCL.
928084, -086, -087
940146 - 940148 INCL
940152
940157 & -158
940175 - 940178 INCL
940180
1001130
1011875 & -876

RECEIVED
[illegible] 198[illegible]
MINING LANDS SECTION

Ontario Ministry of Northern Development and Mines

(Geophysical, Geological, Geochemical and Expenditures) Mining Act

DOCUMENT No. W8901.193

Note:
- If number of mining claims traversed exceeds space on this form, attach a list.
- Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

Type of Survey(s)
SEE MY REPORT JUN. 3/89 : DOC № W8901.151

Township or Area
DASH LAKE G 2671

Claim Holder(s)
ROSS ISLAND RESOURCES INC.

Prospector's Licence No.
T-5028

Address
SUITE 345 BAY ST TORONTO M5H 2S5

Survey Company

Date of Survey (from & to) Day | Mo. | Yr. | Day | Mo. | Yr.

Total Miles of line Cut

Name and Address of Author (of Geo-Technical report)

Credits Requested per Each Claim in Columns at right

		Days per Claim
Special Provisions For first survey: Enter 40 days. (This includes line cutting) For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.		Days per Claim
	Electromagnetic	
	Magnetometer	
	Radiometric	

AUG - 8 1989 D PM 456

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
K	928115	44
	928116	44
	928117	36
	928118	43 87
	928119	44 9
	928120	44 9
	928122	51 7
	928123	44 87
	928124	44 87
	928125	44 87
	928126	44 87
	928127	44 87
	928128	44
	940146	5150 87
	940147	51 50 87
	940148	51 50 87
	940152	51 50 87
	940153	51
	940155	36
	940156	36
	940157	51 50 87
	940158	36
	940159	36

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
K	940160	5150
	940161	51
	940162	5150
	940163	5150
	940164	36
	940172	44
	940173	44
	940174	44
	940175	36
	940176	36
	940177	36
	940178	37
	940179	5150
	940180	36
	940181	51
	940182	51
	940185	36
	940186	36
	1001127	60
	1001128	60
	1001129	56
	1001130	56
	1081873	56

CONTINUED OVER PAGE

Total number of mining claims covered by this report of work: 53

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)
SEE W8901.151

Calculation of Expenditure Days Credits

Total Expenditures $ ÷ 15 = Total Days Credits 2584

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Date AUG 1 / 89

Recorded Holder or Agent (Signature)

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
2472.00	89 AUG 8	Scott Rivett
	Date Approved as Recorded	Branch Director

928114

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying
MICHAEL OGDEN RR-4 STOUFFVILLE ONT L4A 7X5

Assessment Work Breakdown

Man Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc..

Type of Survey

Technical Days				Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
	X	7	=		+		=		+		=	

Type of Survey

Technical Days				Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
	X	7	=		+		=		+		=	

Type of Survey

Technical Days				Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
	X	7	=		+		=		+		=	

Type of Survey

Technical Days				Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
	X	7	=		+		=		+		=	

K 1011874 = 56 DAYS
1011875 : 56
*1011876 : 56 55.2
1003957 : 56 55.2
1003958 : 60
1003959 : 60
1003960 : 56 55.2

TOTAL : 2496 DAYS

Ontario Ministry of Northern Development and Mines

Recording of Work T/45W

DASH LAKE G-3671

DOCUMENT No. W8901.194

Mining Act

Type of work to be recorded (see table below). – For Geo-technical work use form no. 1362 "Report of Work (Geological, Geophysical, Geochemical and Expenditures)".

Name and Postal Address of Recorded Holder

ROSS ISLAND RESOURCES INC.

Prospector's Licence No. T-5028

SUITE 910, 335 BAY ST. TORONTO, M5H 2R3

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed 3970

for Performance of the following work. (Check one only)

- ☐ Manual Work
- ☐ Shaft Sinking Drifting or other Lateral Work.
- ☐ Compressed Air, other Power driven or mechanical equip.
- ☐ Power Stripping
- ☒ Diamond or other Core drilling
- ☐ Land Survey

Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.
K	887802	94	K	928068	81	K	928084	81
	887803	81		928071	95		928086	81
	908189	81		928072	81		928087	81
	928063	81		928073	81		928122	81
	928064	81		928074	81		928123	96
	928065	81		928078	81		928124	96
	928066	81		928079	81		928126	96
	928067	81		928080	81		928127	96

All the work was performed on Mining Claim(s): 928064, -65, -66, -78 AND 940148, -158, -176 AND 1001130

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

ULTRA MOBILE DIAMOND DRILLING LTD
12708 24TH AVE
SURREY B.C. V4A 2E6

OWNED & OPERATED BY KEITH ALLAN OF B.C.

USING NQ RODS WITH A CORE SIZE OF 1 5/8 INCHES IN DIAMETER

DRILLING WAS DONE DURING THIS PERIOD MARCH 8 TO 30, 1989

RECEIVED AUG - 8 1989 8:15 AM

APPROVED AUG 08 1989

(NOTE: 887802 ABOVE = 94 DAYS)

IN.O. 887802

Date of Report AUG 1ST/89

Recorded Holder or Agent (Signature)

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying

MICHAEL OGDEN RR-4 STOUFFVILLE ONT. L4A 7X5

Date Certified AUG 1ST/89

Certified by (Signature)

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment		
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Diamond or other core	Signed core log showing; footage, diameter of		Work Sketch (as

Ontario Ministry of Northern Development and Mines

Assessment Work

DOCUMENT No. 1274
W8901 • Mining Act

- type of work to be recorded (see table below).
- For Geo-technical work use form no. 1362 "Report of Work (Geological, Geophysical, Geochemical and Expenditures)".

DESE LAKE (GOLD)

Name and Postal Address of Recorded Holder

ROSS ISLAND RESOURCES CONTINUED

Prospector's Licence No. T 5028

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed for Performance of the following work. (Check one only)

- ☐ Manual Work
- ☐ Shaft Sinking Drifting or other Lateral Work.
- ☐ Compressed Air, other Power driven or mechanical equip.
- ☐ Power Stripping
- ☐ Diamond or other Core drilling
- ☐ Land Survey

Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.
K	928128	96	K	940161	81	K	1011874	124
	940146	81		940162	81		1011875	124
	940147	81		940163	81		1011876	119
	940148	81		940181	81		1003957	80
	940152	81		1001128	110		1003959	95
	940153	81		1001129	75		1003960	70
	940157	81		1001130	75			
	940160	81		1011873	75			

All the work was performed on Mining Claim(s):

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

RECEIVED
AUG - 8 1989
8:15 PM
123456

APPROVED AUG 08 1989

887802

Date of Report

Recorded Holder or Agent (Signature)

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying

Date Certified

Certified by (Signature)

Table of Information/Attachments Required by the Mining Recorder

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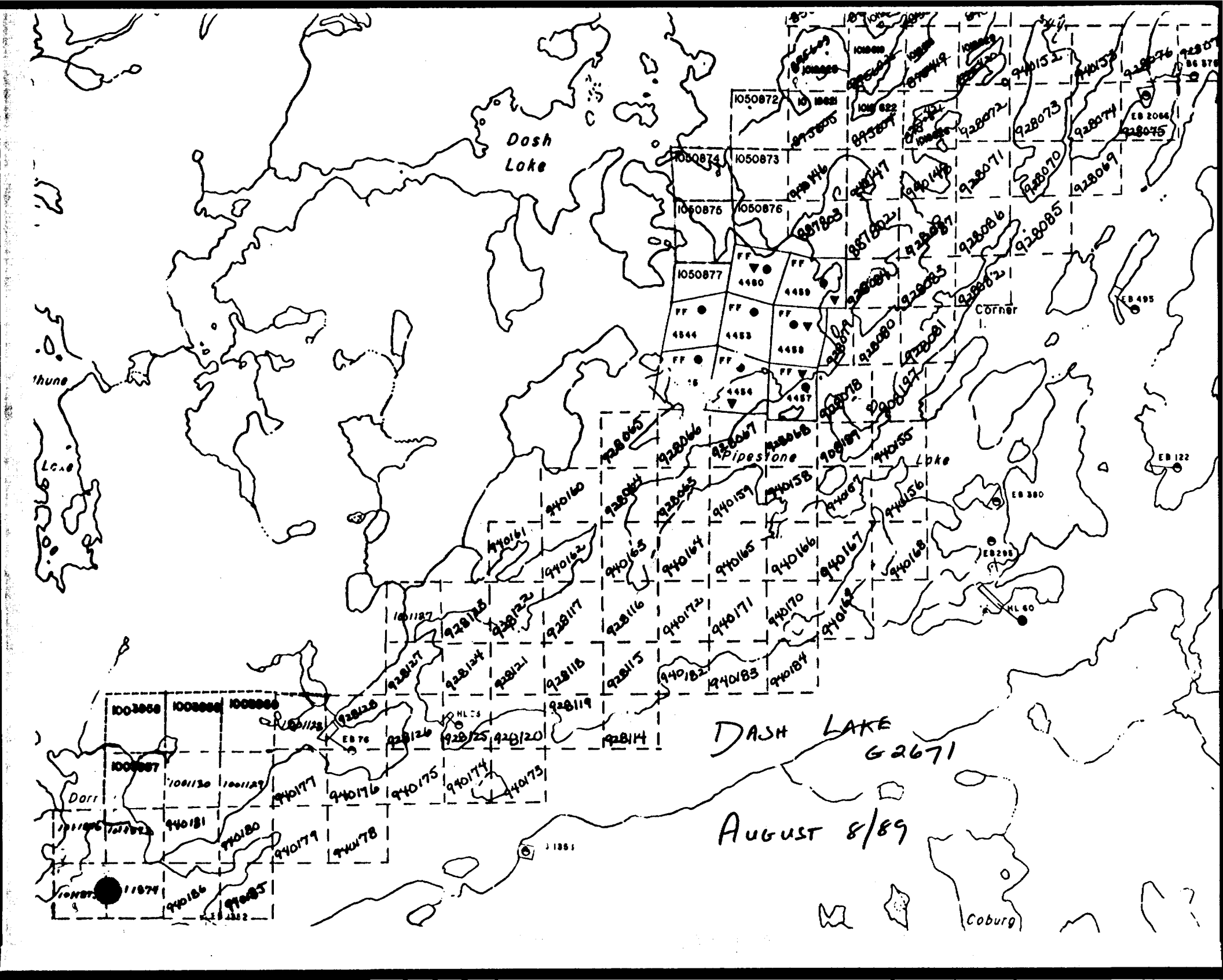
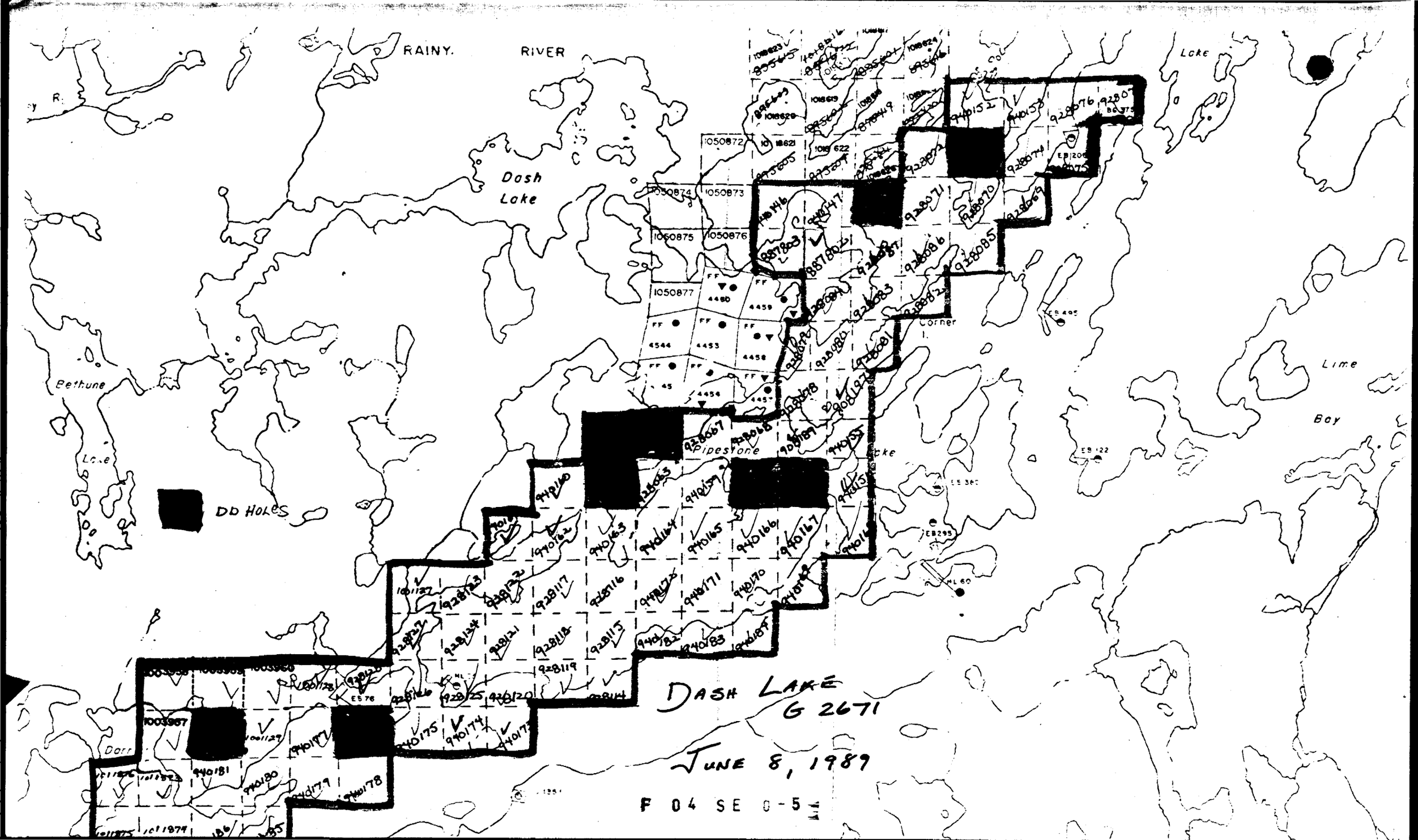
Diamond or other core	Signed core log showing; footage, diameter of		Work Sketch (as


Dosh Lake
Pipestone Lake
Corner
DASH LAKE
G2671
AUGUST 8/89
Coburg


RAINY
RIVER
Dosh
Lake
Bethune
Lake
DD HOLES
Pipestone
Lake
Corner
Lime
Bay
Dorr
DASH LAKE
G 2671
JUNE 8, 1989
F 04 SE 0-5

LAKE ANOMALY 6

DARROW LAKE

ANOMALY 1

DDH-3

ANOMALY 2

DDH-7

ANOMALY 3

ANOM. 4A

ANOM. 4B

ANOM. 4C

ANOMALY 5

ANOMALY 7

DDH-4

ANOM. 6

DDH-2

LINE 1

LINE 2

LINE 3

BIRCH ISLAND

TROUT BAY

CANYON BAY

BLACK BOAR BAY

SAND POINT

GREEN ISLAND

LAKE 'Y'

2.12532 dup

LEGEND

ROCK TYPES

- Late Gabbro dyke
- Diorites (pre alte grain/myrb-texture unit) (Little or no metic mineralis)
- Gabbro/Diorite (mod soft to pre alte grain) Fine grain gabbro (augur to rock alte)
- Basalts
- Basalts
- Basalts (porphyry)

MINERALIZATION

- Shear zone
- Quartz vein contact
- Py Pyrite
- po Pyrrhotite
- cp Chalcopyrite
- Cu Copper
- Au Gold
- sp Sphalerite
- W,M Tungstite, scheelite

ALTERATION

- V Vermiculite
- P Pink alteration of entire feldspar system
- S Bleached
- SH Sheared
- Ba Sericite schist
- B Barite
- SI Silicified
- C Carbonated
- CSV Quartz stringers and veins
- Ms Stevensite, serpentine
- L/D Light/Dark
- Dying trees
- W Bleached
- Pyrite 3% & Iron Carbonate
- A

CULTURE

- Cut lines and diamond drilled holes. Extensions not surveyed by Station Frequent Soundings
- Drill cost abandoned
- (Grave line (approximate))

OVERBURDEN

The overburden is predominantly clay in the valleys and flats with some sand & gravel in bedrock knolls

- Shape of overburden sample location and number
- Auger bluish samples to some combination of gold, arsenic, chromium, antimony, molybdenum or zinc
- High zinc only
- 3/0 Rock sample taken for assay. The first number is gold.
- Dip and strike of bedding of stone
- Dip and strike of schistosity

EQUIPMENT

- Tubes and winch
- Diamond drill core
- Diamond hook
- Diamond hook
- Tag water sample
- Drill hole
- Magnetometer Pack Mine
- Diamond

LOCATION MAP

ROSS ISLAND RESOURCES INC.
PIPESTONE LAKE GOLD PROPERTY
KENORA/FORT FRANCIS DISTRICT, ONTARIO

GEOLOGICAL SURVEY
WEST HALF
DIPOLE-DIPOLE I.P. GRID
AND D.D.H.

FEET 0 400 800 1200 1600
METERS 0 240 480

F 04 SE 0-5

June & July 1987

By Michael Ogden, P.Eng.

LINE 4

LINE 5

SILVER LAKE

DASH LAKE

HELENA LAKE

THE PATENTED CLAIMS OF D. F. YOUNG

FAULT LAKE

DDH-5

DDH-4

ANOMALY-7

ANOMALY-9

ANOMALY 10

DDH-6

AREA 11.5

ANOMALY 11

ANOMALY 12

DDH-2

ANOMALY 12.5

DDH-1

ANOMALY 13

RAE ISLAND

GOLD POINT ISLAND

KONETON BAY

HIGH PORTAGE BAY

JAMES BAY OF PIPESTONE LAKE

PIPESTONE LAKE

MOSQUITO POINT ISLAND

REED NARROWS

STONY NARROWS

SULLIVANS NARROWS

MUSKY BAY

ROSS ISLAND

PIPESTONE LAKE LODGE

OUTPOST CAMP OF TRAILS END LODGE

CEDAR ISLAND LODGE

4000 Ft SE on a Northern into Stoneman Lake with an old pit at small shaft near the far end, on the north shore, at present

- 361 Mica dr + 2ppb
- 362 Q poly from dump + 1ppb
- 363 Rusty mud from dump + Mppb

2.12532 dup

ROSS ISLAND RESOURCES INC.
PIPESTONE LAKE GOLD PROPERTY
KENORA/FORT FRANCIS DISTRICT, ONTARIO

GEOLOGICAL SURVEY
EAST HALF
DIPOLE-DIPOLE I.P. GRID
AND D.D.H.

FEET 0 400 800 1200 1600
METERS 0 240 480

FOR LEGEND - SEE WEST HALF

F 04 SE 0-5

June & July 1987

By Michael Ogden, P.Eng.