2,1289 RECEIVED

SEP 1 0 1973

PROJECTS



010

REPORT ON A GROUND GEOPHYSICAL SURVEY IN SHAW TOWNSHIP, PORCUPINE M.D. DISTRICT OF COCHRANE, ONTARIO FOR

PAC EXPLORATIONS LIMITED

BY

BARRINGER RESEARCH LIMITED 304 CARLINGVIEW DRIVE METROPOLITAN TORONTO REXDALE, ONTARIO JULY, 1973

1.1. GENERAL

During the period from February 23 to April 19, 1973, both dates inclusive, a ground geophysical survey was carried out by Barringer Research Limited on a group of claims in Shaw Township, near Timmins, Ontario. The work was carried out as an extension of work done on a claims group immediately to the east.

The following report describes the results of the geophysical survey.

1.2 PROPERTY

The property consists of <u>20 claims</u> in <u>Shaw Township</u>, southeast of South Porcupine, near Timmins, Ontario. The claims are in Porcupine Mining Division, and are numbered P 363427 - 363438, P 363443 - 363444, P 355174 - 355175, P 355178 - 355181, all numbers inclusive, for a total of 20.

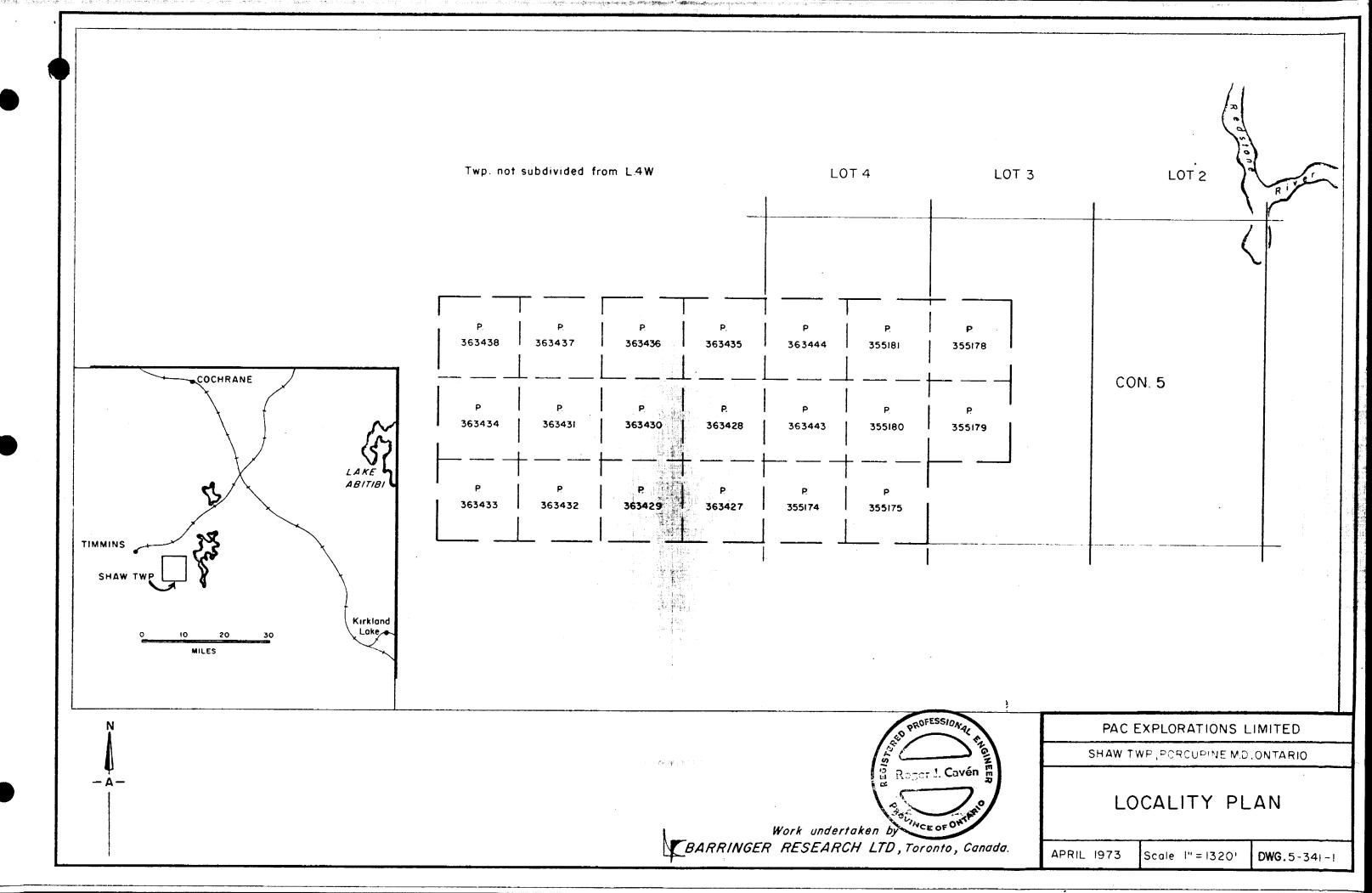
1.3 LOCATION AND ACCESS

The property is approximately 11 miles east-southeast of Timmins, Ontario and 6 miles southeast of South Porcupine, Ontario. Access is by the gravel road joining South Porcupine and the INCO-Noranda Langmuir Mine, which passes about 1.5 miles southwest of the property. A bush road leading north from the gravel road just west of the Redstone River provides closer access, by vehicle in summertime and by snowmobile in winter, to the east end of the present property as well as to the adjoining claims group acquired earlier. A trail suitable for snowmobiles has been cut to the south end of Line 398 W from the bush road.

The topography is mainly very flat, with outcrops rising steeply from the swamps in the west end and more gently in the east, where outcrop also is more extensive.

Reference: Topographic map NTS Timmins 42 A/6E.

- 1 -



1.4 PREVIOUS WORK

Old claim maps as well as old claim posts and grids on the property show evidence of previous work.

An electromagnetic survey carried out by Economic Mineral Investigations Limited of Kingston, Ontario, in 1971, was reported on in January of 1972. The same company also reported on geological investigations in July 1971. The results of the EM survey appear to have met with very limited success as judged by a two-page report.

Geological investigations have also been carried out by Anshaw Porcupine Mines Limited and Canadian Nickel Company Limited.

Some drilling has also been carried out with reported lengths of 110-120 feet, testing both the iron formation and quartz veins.

The main target appears to have been gold after a gold occurrence in the iron formation was found further southeast along strike, as well as possible massive sulphide mineralization.

In September and October of 1972 Barringer Research Limited carried out geological and geophysical surveys on the adjoining claims group to the east. In this work an ultramafic rock was found in the west central part of the property. A high induced polarization response was obtained over this rock, samples of which were analysed to contain 620 ppm Nickel, 140 ppm Copper and 84 ppm Cobalt by hot perchloric acid digestion. Both the IP anomaly and the rock formation were open to the west.

1.5 GEOPHYSICAL SURVEY

Previous work appears to have been directed towards finding massive sulphide mineralization and to some extent gold in quartz veins. The present work has been more concerned with mapping the overall sulphide content which occurs as disseminated mineralization, some of it as coarse pyrite crystals. The induced

- 2 -

polarization method is well suited to this task. In order to facilitate geological mapping a ground magnetic survey was also carried out with a basic station interval of 100 feet, and less in areas of anomalous conditions.

The ground magnetic survey comprised <u>1592 stations</u> over a total of 20.3 line miles. The reconnassaince induced polarization survey covered 17.5 miles and detail coverage an additional 2.5 miles at three or four electrode separations for a total of 620 readings.

Additional is some detail induced polarization work over a weak but potentially important anomaly on the grid on the adjoining claims group to the east. Total amount of work consisted of 3800 feet with four electrode separations for a total of 64 readings.

1.6 SURVEY CONTROL

The grid was cut by Mr. Ralph Allerston, of Timmins, under separate contract. The grid was laid out with an <u>east-west base line commencing at Station 36W</u> on the base line of the earlier work on the adjoining property to the east. The starting point was denoted Station 360W to avoid confusion with the earlier grid. During the course of the survey it was found that the grid lines did not form a regular grid. The perimeter was then chained by the Barringer Research crew and two bearings obtained on the base line, one at the extreme west end, the other at Line 398W at which point the intersection between survey line and base line formed a right angle.

The grid was chained and picketed with 100 foot stations.

1.7 PERSONNEL

The ground magnetic survey was carried out by Roger Caven, P. Eng., and the induced polarization survey by Roger Caven and George Young, Senior Geophysical Operator, under the direct supervision of Roger Caven, P. Eng., Senior Geophysicist.

3

2. SURVEY PROCEDURES

The grid was laid out with a generally <u>east-west base line</u> and north-south survey lines with a spacing of <u>400 feet</u>.

The magnetic survey was carried out with a <u>Mephar M-700 Fluxgate magnetometer</u> which measures the vertical component of the earth's magnetic field. All the survey lines and the base line were traversed. Nominal station interval was <u>100 feet</u>, but it was found that many steep gradients existed. In anomalous areas and over many of the outcrops the station interval was shortened to <u>50 feet</u> for a better definition of trends and to make a later correlation to geology more meaningful. The magnetic data was corrected for diurnal variations and drift by means of control stations established at 400 foot intervals along the base line by <u>multiple looping</u>, and tied to Station 8W on the base line of the grid on the adjacent claims to the east. Due to the controls established during looping, all even numbered stations along the base line with relative magnetic intensity below 1000 gammas are effectively control stations.

The <u>induced polarization survey</u> was also carried out over all the survey lines. <u>A pole-dipole electrode array was used throughout</u>, on a station interval equal to the dipole length, i.e. <u>200 feet</u>. The potential dipole length is also referred to as the "a" spacing. The current pole was situated to the south of the potential dipole throughout the survey, in order to make line-to-line correlation possible and thus to make the data contourable. The <u>reconnaissance</u> <u>IP work</u> was done with n = 2 for a potential dipole to current pole distance of 400 feet, while the detail survey was made with n = 1, 3 and 4 or in some cases n = 3 and 4 only, for dipole to current pole separations at 200, 600 and 800 feet or 600 and 800 feet respectively. The detail work is shown as pseudo sections including n = 2, with all the data being compatible.

The potential dipole and the one current pole move in unison along the survey line, while the second or "infinity" current pole is fixed at a distance which is sufficiently large so as not to affect significantly the current distribution of the moving current pole. Commonly this distance is at least 10 times the "na" spacing from the nearest survey point on the grid.

- 4 -

A 7.5 kw transmitter and generator was employed for this survey.

- 5 -

3. DESCRIPTION OF THE INSTRUMENTATION

3.1 INDUCED POLARIZATION SYSTEM

The induced polarization system used is the time-domain system. The DC-pulse or time-domain approach to the induced polarization method comprises of passing direct current through the ground which builds up charges on the interfaces between metallic minerals and electrolytes. The current is switched off and the redistribution of these charges is measured as a voltage decay (referred to as "overvoltage" or I.P. effect) at the ground surface. Comparison of this secondary voltage (V_s) with the primary voltage (V_p) when the current is on provides a measure of the chargeability of the sub-surface.

The system consists of a <u>generator set</u>, a <u>transmitter</u> and <u>receiver</u>. The generator set, consisting of an engine driven alternator and voltage regulator, provides the primary power at 120V AC - 400 Hz to the transmitter. The transmitter contains the circuitry and front panel controls to set up and convert the primary AC voltage to a rectangular low frequency wave form, the amplitude of which can be selected by the operator for application to the ground. The transmitter also contains switching circuitry for the current. The <u>current</u> <u>is applied to the ground for 2.0 seconds</u> and it is <u>switched off for 2.0 seconds</u>. The polarity of current is reversed after each pulse.

The generator set and the transmitter are manufactured by <u>Huntec Limited of</u> Toronto, and are available as 2.5 or 7.5 kw units. The <u>receiver</u> is the <u>Newmont</u> <u>designed N IV</u> manufactured by <u>Crone Geophysics Limited</u>, <u>Mississauga</u>, Ontario. The receiver contains its own power supply and has an SP buckout, manual and automatic. After the primary voltage between the potential electrodes has been determined, the receiver automatically integrates the secondary voltage between 0.45 and 0.90 seconds (M) as well as between 0.90 - 1.35 seconds (N) after the termination of each primary current pulse for six consecutive pulses (3 complete cycles), compares the sum to the primary voltage measurement and displays a readout directly in milliseconds on a meter.

The applied current is measured on the transmitter and the apparent resistivity

- 6 -

for the given electrode array calculated from the current (Ig) and primary voltage (V_n) and factor applicable to the electrode array employed.

In most environments the measurement of the chargeability can be repeated to an accuracy of 5 - 10% or better, depending on the power rating and ground resistivity.

3.2 FLUXGATE MAGNETOMETER

The McPhar M-700 magnetometer is a fluxgate instrument designed primarily to measure the vertical component of the earth's magnetic field.

The instrument is held vertical with the aid of a round spirit level after which the instrument is selflevelling. Readout is obtained from a panelmeter the full scale of which is switch-selectable from 1000 gammas to 100,000 gammas, positive or negative. In areas of low gradient it is possible to read the magnetometer to the nearest 5 gamma value on the lowest scale if held sufficiently still and level. In a practical situation an <u>accuracy of $\frac{+20}{-20}$ gammas, i.e. one scale division</u>, is more common. The absolute accuracy decreases on the higher scales, but can be held to $\frac{+1}{-1}$ of full scale.

The fluxgate magnetometer is usually the instrument of choice in surveys where very steep gradients are expected, because its operation is not affected by these.

In areas of high gradients the repeatability of the readings is critically dependent upon the accuracy with which the same station is occupied. Base stations should therefore be selected in magnetic background where gradients are negligible. It is also preferable that base stations have fixed horizontal platforms upon which the instrument can be positioned accurately. At a suitable base station the instrument is set to a low value, or if a government base station is available the instrument is set to the established value or related to it by looping.

4. DATA REDUCTION AND PRESENTATION OF THE RESULTS

The magnetic results are corrected for diurnal variations and drift with respect to base stations established along the base line and referred to the magnetic intensity at Station BL/8W on the connecting grid immediately to the east. The data is presented as a contour plan at a scale of 1:2400.

The induced polarization data is presented as <u>contour plans</u> separately for chargeability, <u>apparent resistivity</u> and <u>normalized chargeability in the</u> reconnaissance mode. The <u>detail induced polarization</u> work is presented as pseudo-sections separately for <u>chargeability</u> and <u>apparent resistivity</u>.

The <u>contour plans</u> are presented at a scale of 1:2400, while the scale of the pseudo <u>sections</u> is 1:4800.

In addition three pseudo sections each of chargeability and apparent resistivity are shown for some detail work on Lines 20W, 24W and 28W of the adjoining grid to the east. Scale is 1:4800.

5. KNOWN GEOLOGY

The geology of the claims group immediately to the east was described in detail in: "Report on Geological and Geophysical Surveys, Shaw Township, Porcupine M.D., District of Cochrane, Ontario, for Pac Explorations Limited (Barringer Research Limited, December 1972).

In the course of the geological mapping an ultramafic rock was found, samples of which were analysed to contain 620 ppm Ni, 140 ppm Cu and 84 ppm Co by hot perchloric acid digestion, which is within the range of the ultramafic flows and sills of the northern Gold Belt area, and thus a potential host rock for economic mineralization. Over the ultramafic body also occurred an induced polarization anomaly.

Both the geophysical anomaly and the ultramafic body were open to the west.

The previous geological work over the present property describes lenses of iron formation, altered peridotites, diorites and quartz-diorites, quartz veins, etc., i.e. in general similar to earlier descriptions of the claims adjoining to the east.

6. INTERPRETATION

6.1 MAGNETICS

In common with the previous work on the adjoining property the magnetic survey utilized a <u>vertical field fluxgate magnetometer</u>. In addition a common base station was utilized so as to make the results directly comparable. The data (Dwg. Nos. 5-341-2A and 2B) reveals a highly complex geology, with magnetic intensities much higher and gradients steeper than those encountered to the east. There are few areas of a smoothly varying magnetic field, the most notable ones occurring in the southwest corner on the property and another on Claim P 355174. In many places it was noted that moving the magnetometer a few feet gave a totally different reading, especially noticeable in the eastern part of the grid, although present to some degree in all but the "quiet" areas. The high gradients caused discrepancies at the overlap of the present and previous grids along Line 370W since different stations were occupied on the grids. The gross picture, however, agrees well for both surveys.

As was mentioned above, some magnetic intensities are much higher for this survey than the intensities found to the east. The highest intensities and gradients have been interpreted as due to iron formation. The pyrrhotite and perhaps also magnetite content appears to have increased to the west, at least in parts of the iron formation.

Apart from the iron formation, there are magnetic andesites and diabase dikes, as well as an ultrabasic rock present. It is not possible from the magnetic data to separate the various lithologic units or even outline some with complete certainty, but some of the prominent features have been indicated on the interpretation map (Dwg. Nos. 5-341-6A and 6B). Some faults have also been deduced and show good agreement with linears on aerial photographs.

6.2 INDUCED POLARIZATION AND RESISTIVITY

In the course of an induced polarization survey, not only the chargeability, but also the primary voltage between the measuring electrodes and the current input

- 10 -

into the ground are recorded. From this data and a geometric gonstant dependant upon the electode array the bulk, or apparent, resistivity of the ground is calculated. The <u>apparent resistivity contour plan</u> (Dwg. Nos. 5-341-4A and 4B) reflects both the underlying lithology and the faults in the area, as well as to some extent the overburden. The north-northwest trending fault some near the west end of the grid appears as a resistivity low. Another fault from the south end of Line 434W to the north end of Line 410W may form a break in the rock types, as the resistivities are much lower to the west of the fault.

The very high resistivities, mostly above 10,000 ohm-metres, are interpreted to be caused by a dense unaltered rock type, possibly a granodiorite. The high resistivity areas are also characterized by low chargeabilities and thus appear barren of significant mineralization.

The range of <u>apparent resistivity values</u> spans almost three orders of magnitude from a low of 37 to a high of 28750 ohm-metres. Many of the low values show the influence of the conductive overburden in the swamps, others are clearly related to the chargeability anomalies.

The <u>chargeability pattern</u> favours the east end of the grid. In the western part of the grid the chargeability values are very low. That effective penetration to bedrock was in fact achieved is verified by the resistivity map, as well as by observations on traversing outcrops without any meaningful increase in chargeability. To assess the validity of small increases in chargeability a pseudo depth-section was measured in the vicinity of the base line along Line 450W. The results showed a fairly uniform continuation to depth of the chargeability readings. It was concluded that a change in rock type caused the slightly higher values.

Further east the chargeability anomalies increase in amplitude and show consistently good values at depth, and correlate with relative apparent resistivity lows; as would be expected for mineralization.

From geological mapping and induced polarization work on the property adjoining to the east it is known that the iron formation can respond strongly to IP

- 11 -

measurements due to an abundance of iron sulphides. Geological mapping has also showed that the ultrabasic rock is often adjacent to the iron formation and can be highly chargeable.

In the present grid the chargeability anomalies are mostly broad. Many of the interpreted sections of iron formation fall on the flanks of the high anomalies, others on low anomalies. This pattern suggests that the iron formation alone would not be the source of the induced polarization effect, but rather that a combination of the iron formation and an adjacent body such as a mineralized ultrabasic unit would be the cause.

The iron formation which has been shown represents the highly magnetic portions but lower susceptibility or even non-magnetic iron formations may exist and not be distinguishable in this environment. It thus seems likely that the iron formation in places has a greater extent than is shown on the interpretation map.

Ten anomalies have been selected as significant and are numbered in order of decreasing approximate priority.

decreasing approximate priority.

Anomaly 1: Lines 382W - 398W, at 10 N

A broad anomaly centred on an intense high across four lines at 10N with the highest value recorded at L 394W/10N. Two sections of iron formation flank the anomaly at its west end.

Anomaly 2: Lines 374W - 382W, at 4S

This anomaly is situated on the lowest recorded apparent resistivity, 37 ohm-metres, at L 378W/4S, with outcrop nearby. It appears to form an extension of the ultrabasic rock unit found during mapping further east. It is closely flanked by a member of the iron formation on the south. The chargeability anomaly is likely to be enhanced by this relationship.

Anomaly 3: Lines 390W - 410W, at 14S to 16S

The pseudo sections on Lines 398W and 406W indicate a source in the form of a steeply dipping or vertical sheet or vein plunging to the east. The near surface expression is not very strong on Line 398W, but the body may come close to surface near Line 406W. Iron sulphides in the form of coarsely crystalline

pyrite was observed in the neighbourhood, probably part of the iron formation which is evident from the magnetics immediately to the south of the anomaly.

Anomaly 4: Lines 398W - 410W, at 85 to 125

A broad anomaly of medium intensity to the north of Anomaly 3 of which it may be an extension. A widely disseminated mineralization is indicated near the contact with the high resistivity rocks immediately to the north.

Anomaly 5: Line 374W/25 - Line 386W/4N

The east end of this anomaly coincides with interpreted iron formation. The possibility exists that the entire anomaly is caused by the iron sulphides but its location is such that it may also form an extension of Anomaly 2 and the ultrabasic rock unit, particularly along its westerly projection.

Anomaly 6: Line 386W/2S - Line 390W/Base Line Possibly a faulted off part of Anomaly 2 with lower amplitude.

Anomaly 7: Line 422W/6N - Line 426W/8N

This chargeability feature is narrow, veinlike in appearance, and of moderate amplitude. Its coincidence with interpreted iron formation suggests this as the only source. Geological investigation and sampling is recommended, but no drilling at present.

Anomaly 8: Line 418W/2N

A single line and station anomaly, this feature is located at the crossing of two faults. There is no appreciable magnetic indication that this anomaly is a part of Anomaly ⁷. Geological investigation only is recommended at this time.

Anomaly 9: Line 394W/185 - Line 398W/20S

Located south of Anomaly 3 as well as south of the interpreted iron formation it may not be connected with either. The trend of the anomaly is aligned along a SW - NE fault. Drilling is recommended unless there is geological evidence to the contrary.

Anomaly 10: Line 370W/10N

This anomaly has a relatively low amplitude but is open to the east. It was not picked up in the previous survey indicating a limited extent. The low chargeability amplitude down rates this anomaly relative to the others and no drilling is recommended in the initial programme, unless geological evidence would merit it.

- 13 -

The magnetic survey has shown the presence of very high gradients as well as high vertical field intensities on the east half of the grid. The highest gradients and intensities have been interpreted as iron formation. The iron formation deduced from the magnetics is highly discontinuous. Whether this discontinuity is indeed present or not is best resolved through geological mapping since the presence of non-magnetic or low susceptibility portions would not be distinguishable. Numerous faults have also been interpreted from the magnetics as well as apparent resistivity and chargeability data. These faults in general coincide well with photo linears interpreted independently.

The apparent resistivity data show that effective penetration was achieved in the induced polarization survey. The range of resistivity values recorded is much larger than two orders of magnitude, i.e. from a low of 37 to a high of 28750 ohm-metres, but with the majority of values between 1000 and 10,000 ohm-metres. Most of the resistivities below 1000 ohm-metres reflect the presence of highly conductive overburden in the swamps while others coincide with chargeability anomalies and thus due to the concentration of mineralization or possibly graphite. The highest values reflect relatively dense, unaltered rock.

The interpreted parts of the iron formation do not generally correlate well with the chargeability anomalies, however, some of the broad chargeability anomalies in the east end of the grid are interpreted as combined effects of iron formation and mineralized extrusive or intrusive rocks.

Ten chargeability anomalies have been shown in approximate order of decreasing priority. The anomalies are shown as areas rather than as discrete bodies, partly because a disseminated mineralization is expected.

The following drill holes are tentatively recommended to test the chargeability anomalies:

Anomaly 1:

DDH 1.1 Collar at L 394W/8N, bearing Grid North ~45°, length 450 feet.

DDH 1.2 Collar at L 394W/10N, bearing Grid North, -45°, length 350 feet. DDH 1.3 Collar at L 386W/8+50N, bearing Grid North, -45°, length 550 feet. Anomaly 2:

DDH 2.1 Collar at L 382W/5+50S, bearing Grid North, -45° , length 550 feet. DDH 2.2 Collar at L 374W/5S, bearing N 18°E, -45° , length 500 feet.

Anomaly 3:

DDH 3.1 Collar at L 398W/15+50S, bearing Grid North, -45°, length 300 feet. DDH 3.2 Collar at L 406W/17+50S, bearing Grid North, -45°, length 350 feet.

Anomaly 4:

DDH 4.1 Collar at L 402W/9S, bearing Grid South, -45°, length 500 feet.

Anomaly 5:

DDH 5.1 Collar at L 386W/1+50N, bearing N 25°E, ~45°, length 350 feet.

Anomaly 6:

DDH 6.1 Collar at L 386W/3S, bearing N 25°E, -45°, length 450 feet.

Anomaly 7:

No drilling recommended at this time.

Anonaly 8:

No drilling recommended at this time.

Anomaly 9:

DDH 9.1 Collar at L 398W/21S, bearing Grid North, -45°, length 200 feet.

Anomaly 10:

No drilling recommended at this time.

The above recommendations are based solely on the geophysical data and take into account a small amount of uncertainty in anomaly location as well as attempting to sample the anomaly both at depth and lateral extent. Final recommendations for drilling should take the mapped geology into consideration.

- 15 -

Based upon closer geological knowledge some drill holes may be shortened and others eliminated as redundant for an initial drill programme.

SIDE R BARRINGER RESEARCH LIMITED a.s. éa. Roger J. Cav Caven, P. Eng., oget POLINCE OF ONTAH Senior Geophysicist.

16 😓

File 2. 1289

v

GEOPHYSICAL – GEOL TECHNICAL D.

.

.

OFFICE USE ONLY



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

	900		
 1	-	-	

PROJECTS SECTION

.

Type of Survey	
Township or Area Shaw Township	
Claim holder(s) Pac Explorations Limited	MINING CLAIMS TRAVERSED List numerically
Author of ReportR, Caven	
Address304 Carlingview Dr., Rexdale	P 355174 (prefix) (number)
Covering Dates of Survey 23 Feb. to 14 Mar. 1973	P 355175
(linecutting to office) Total Miles of Line cut 20.3 line miles	P 355178
	P 355179
SPECIAL PROVISIONS CREDITS REQUESTEDDAYS geophysicalGeophysical	1 I P (วา(RD
ENTER 40 days (includes line cutting) for first ————————————————————————————————————	P 355181 P 363427
line cutting) for firstMagnetometer	Z P 3/3428
ENTER 20 days for eachOther additional survey using Geological	
additional survey using Geological same grid. Geochemical	P 363430
AIRBORNE CREDITS (Special provision credits do not apply to airborne sur	
MagnetometerElectromagneticRadiometric	P53431
(enter days per claim)	P 353432
DATE: 5 September 1973 SIGNATURE: Loga aven	P363433
PROJECTS SECTION	P 363434
Res Geal L. D. Qualifications 2, 1049	P. 3435
Previous Surveys 2.1142	P
Checked bydate	10
GEOLOGICAL BRANCH	
	P
Approved bydate	
GEOLOGICAL BRANCH	
Approved bydate	TOTAL CLAIMS20

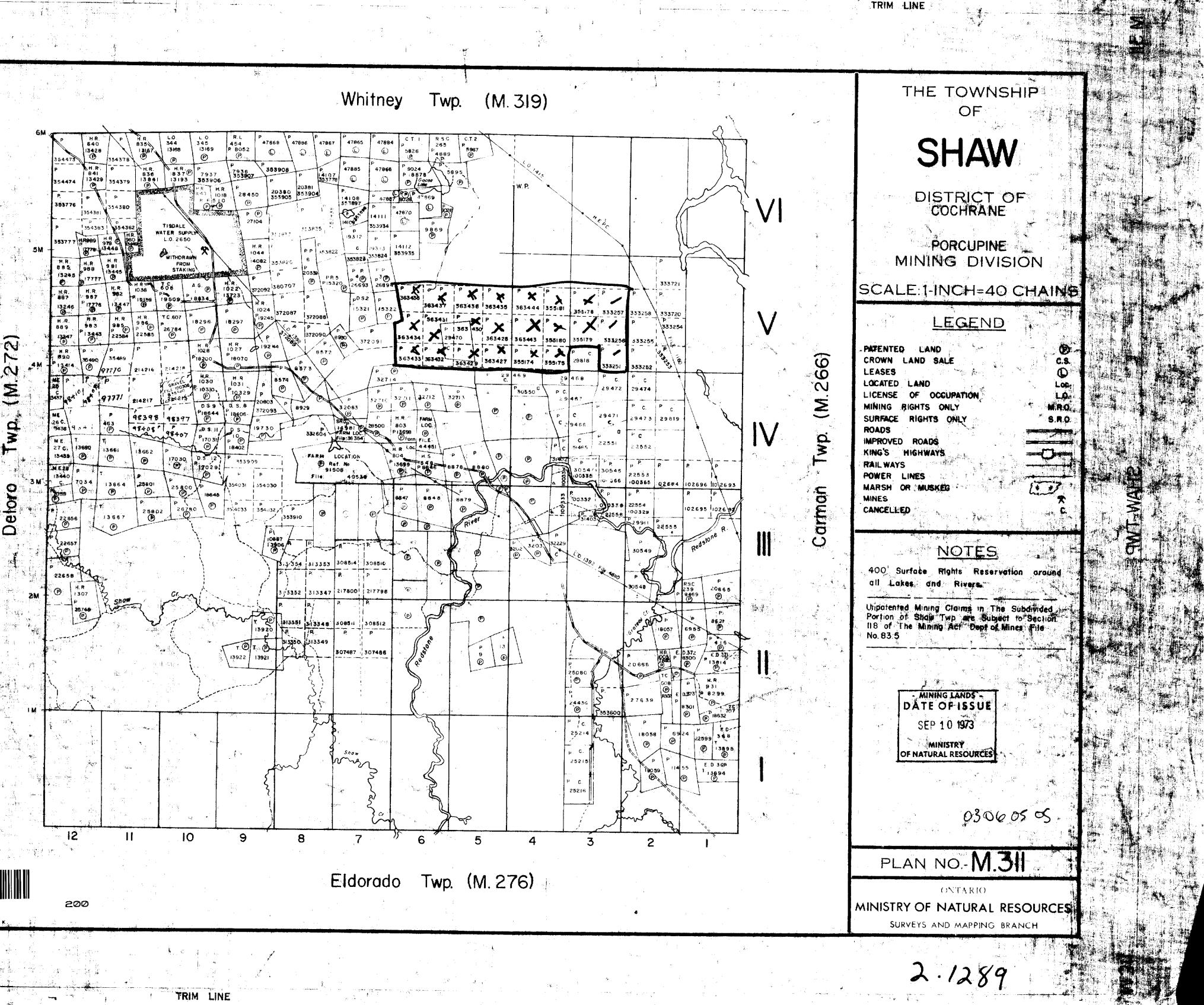
5	ANT -

.

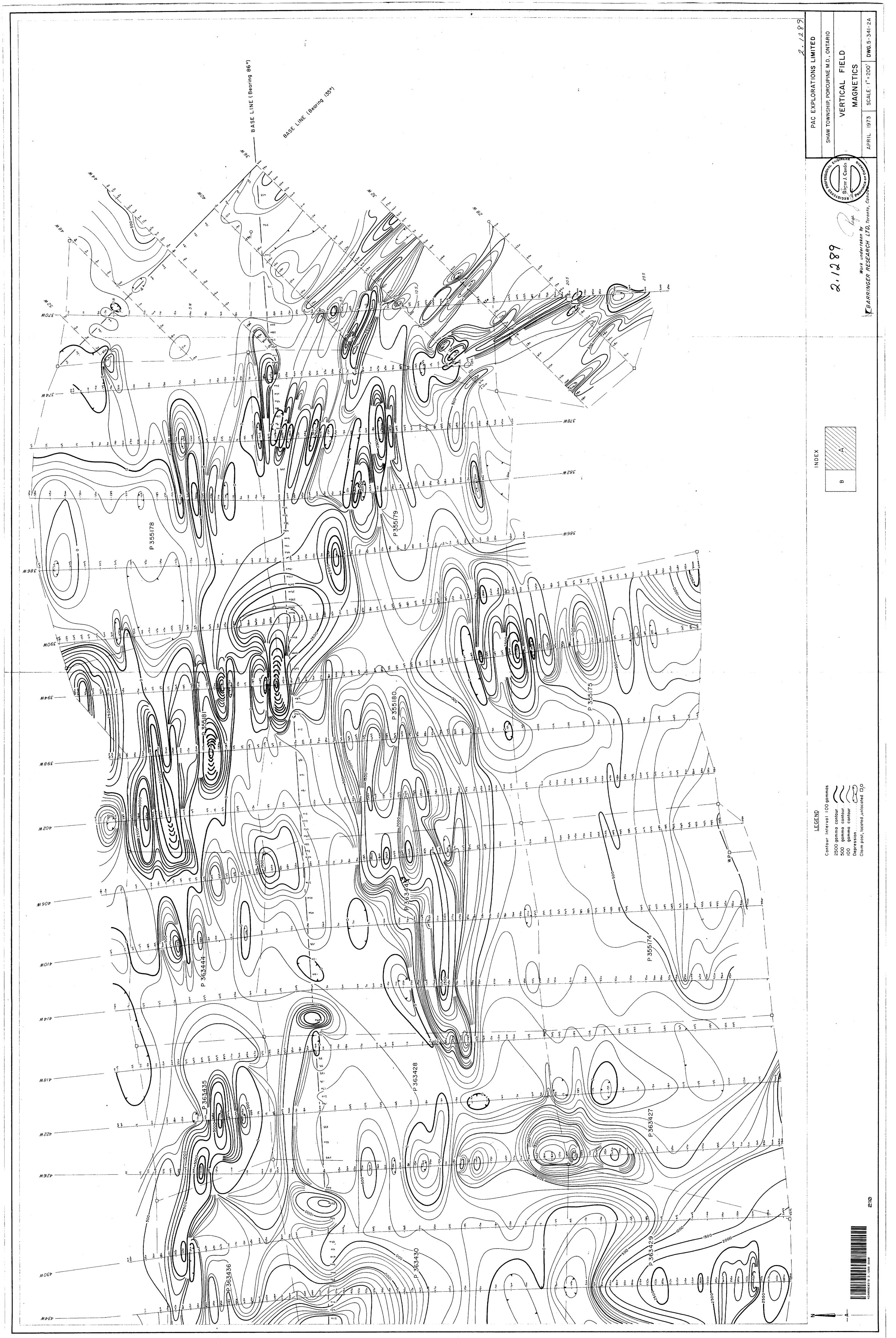
GEOPHYSICAL TECHNICAL DATA

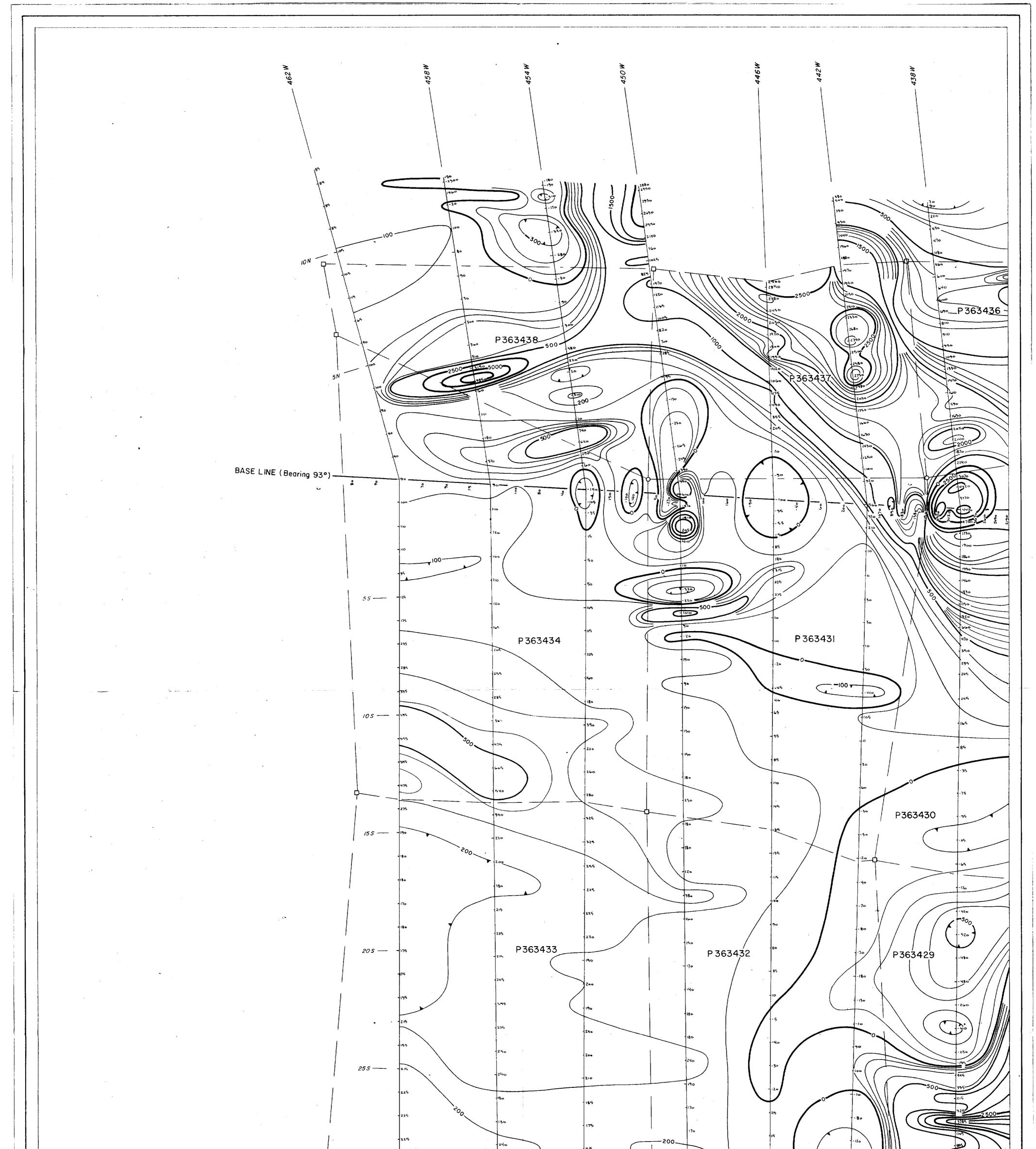
GROUND SURVEYS					
Number of Stations1592	Number of Readings1592				
Station interval 100 feet basic - detail at 50 feet					
Line spacing400 feet	······································				
Profile scale or Contour intervals 100 gammas					
(specify for each type of	survey)				
MAGNETIC					
Instrument McPhar M-700 Fluxgate Magneton					
Accuracy - Scale constant <u>± 20 gammas</u>					
Diurnal correction method Base station looping					
Base station locationBase line / 8W					
FIECTROMACNETIC					
ELECTROMAGNETIC					
Instrument					
Coil configuration					
Coil separation	· · · · · · · · · · · · · · · · · · ·				
Method:	ot back 🗌 In line 🔲 Parallel line				
(specify V.L.I	. station)				
Parameters measured					
GRAVITY					
Instrument					
Scale constant					
Corrections made					
Base station value and location					
Elevation accuracy					
INDUCED POLARIZATION RESISTIVITY					
Instrument					
Time domain	Frequency domain				
Frequency	Range				
Power					
Electrode array					
Electrode spacing					
Type of electrode					

L.O. 344 13168 47865 © 47868 47886 47861 54 8052 @... 13428 \mathbf{O} \odot \bigcirc \odot 54473 5437B

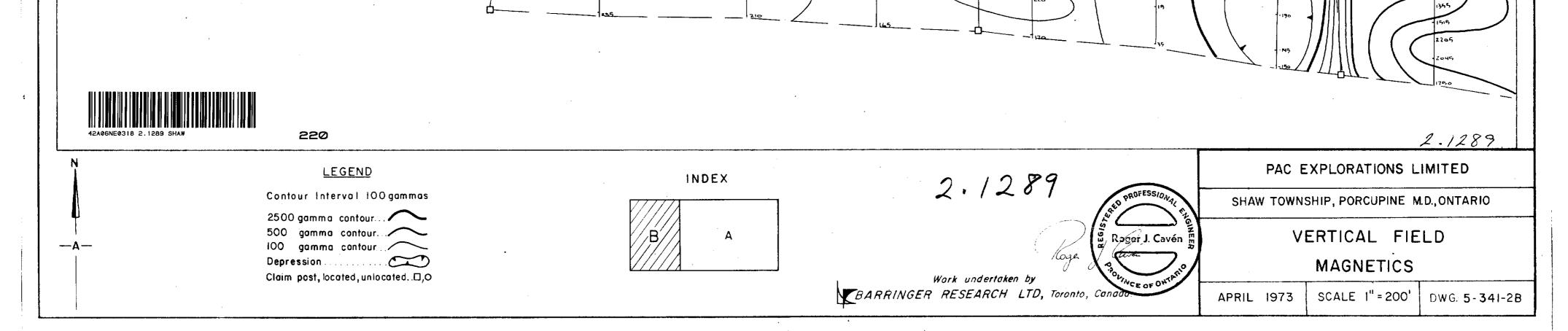


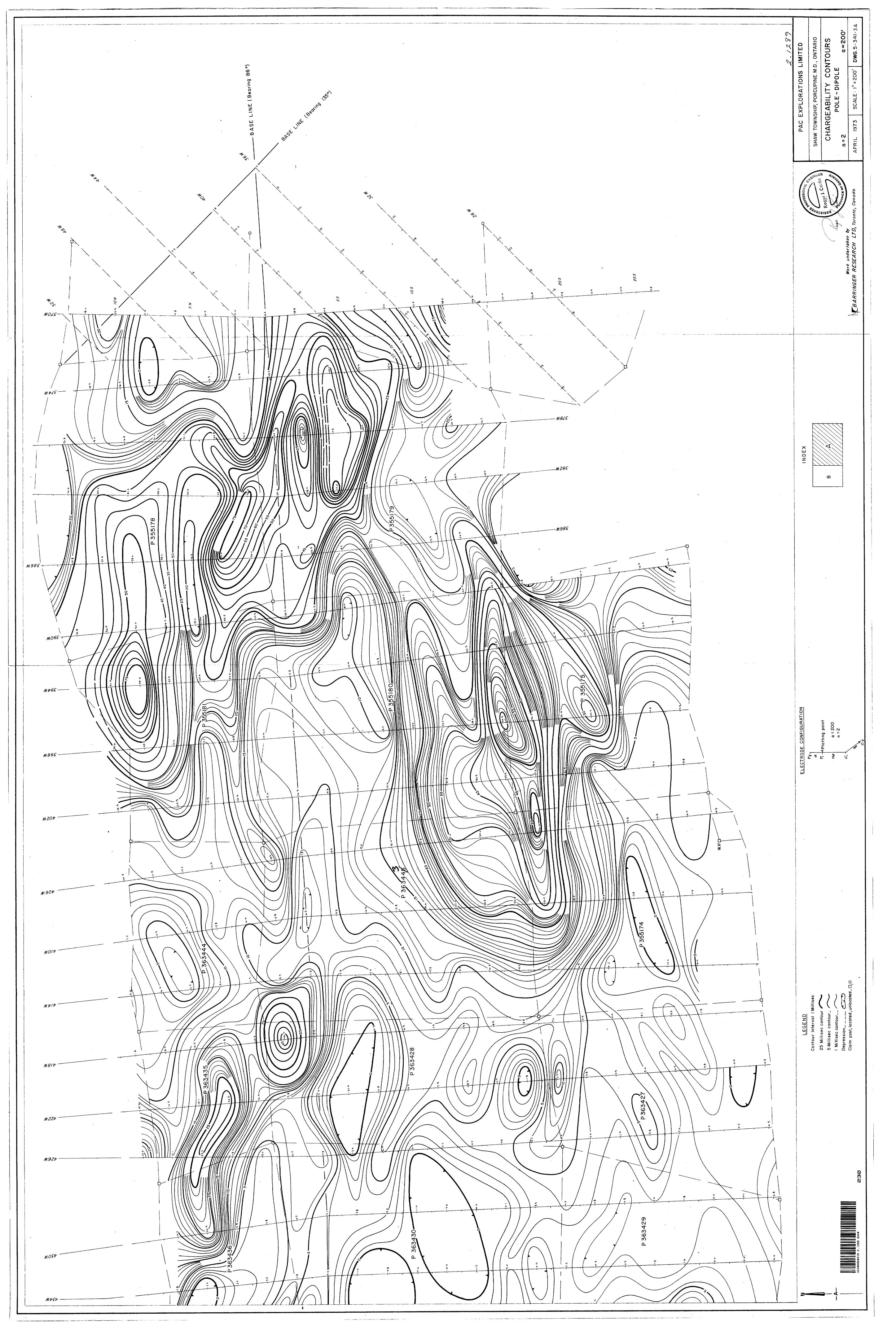


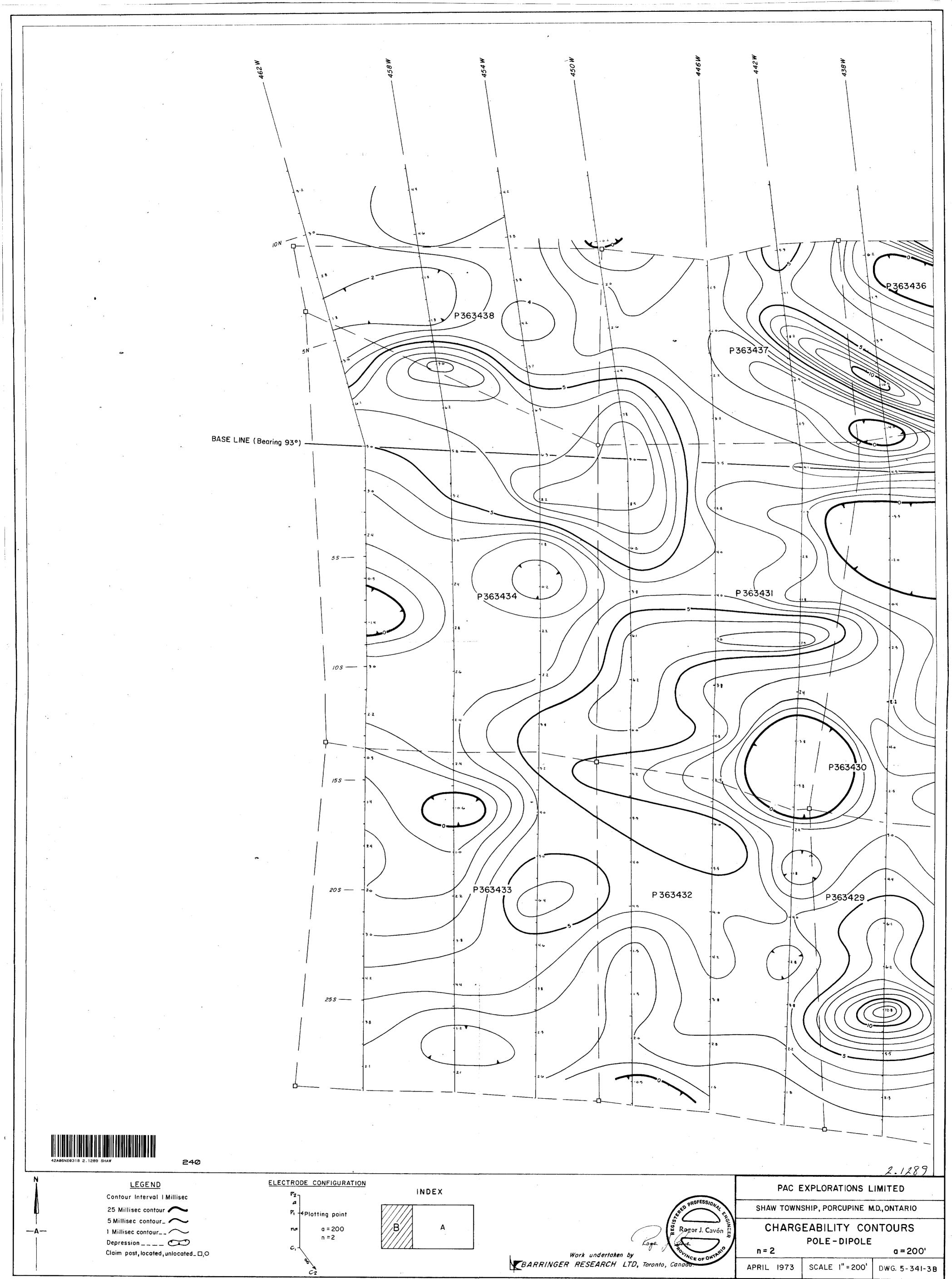


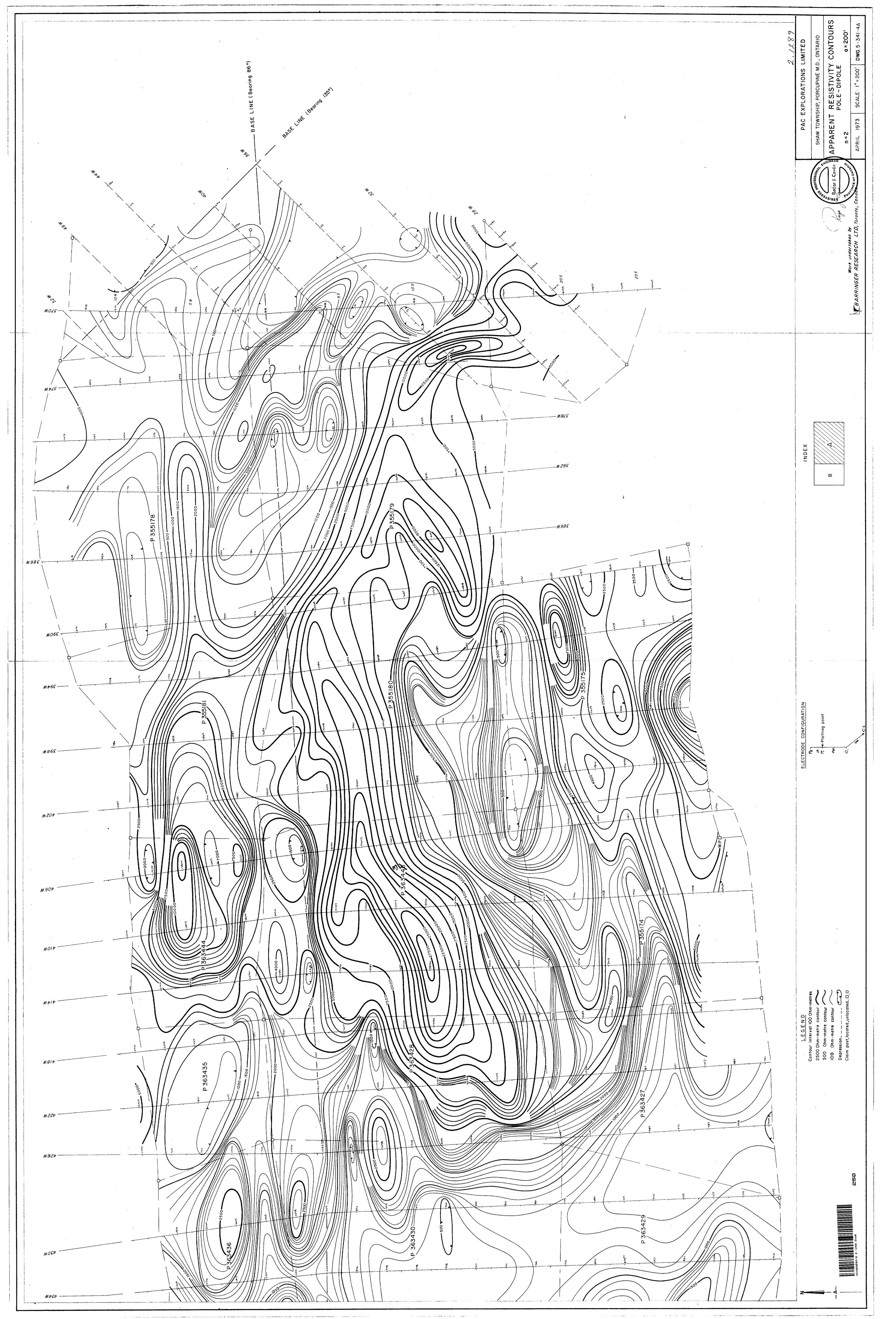


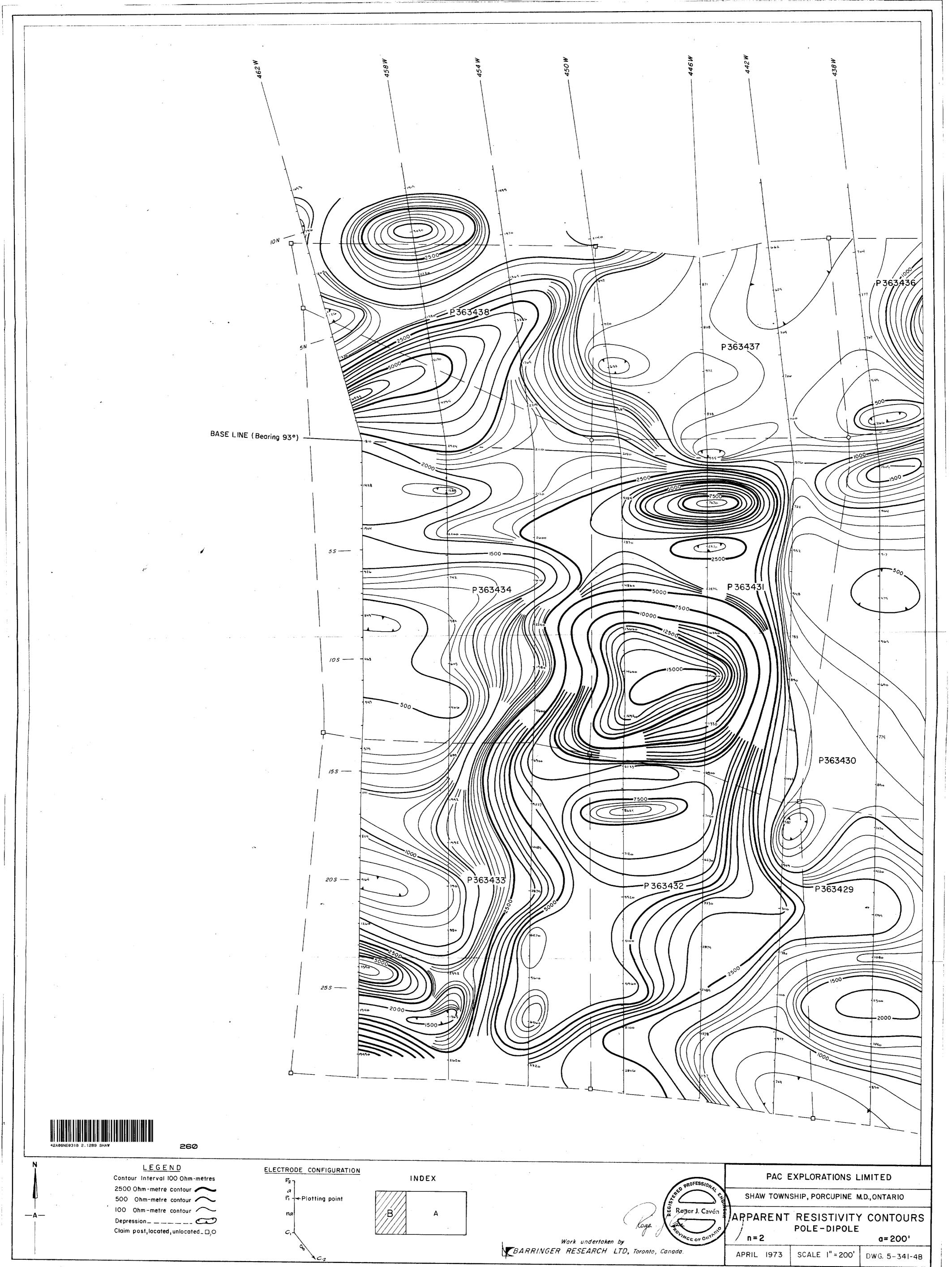












CHARGEABILITY

. .

,

Contour Interval – 5 Millisecs

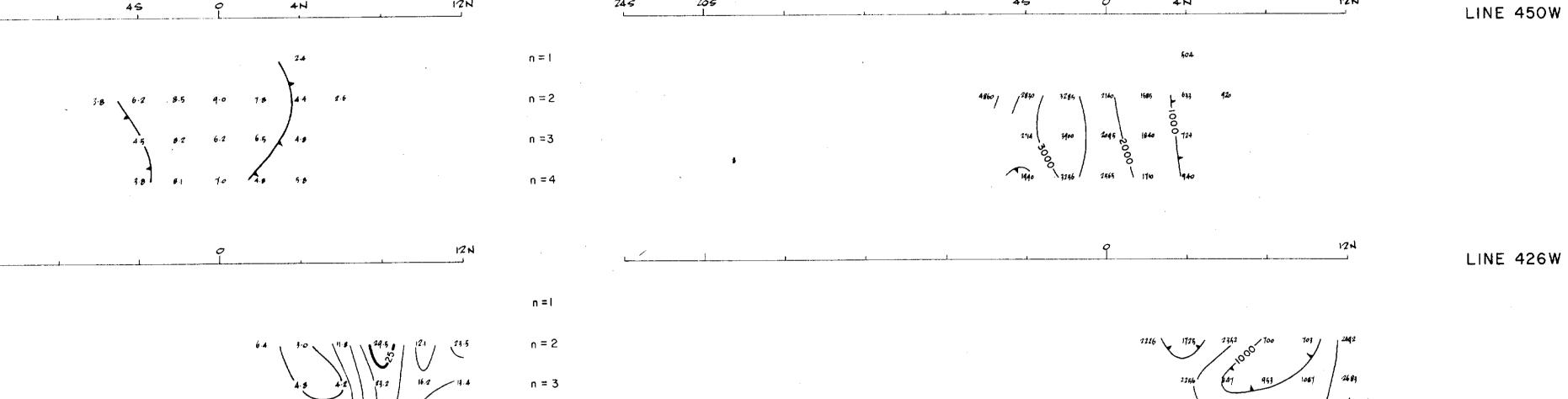
45

•

• APPARENT RESISTIVITY

Contour Interval - 1000 Ohm - Metres

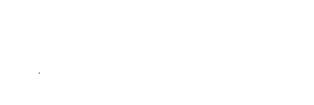
12N 45 4 N 0



ı

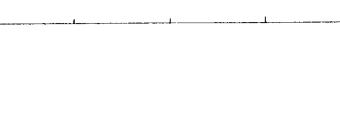


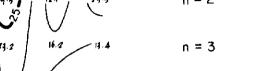




205

245





12N



