



32D05NW0396 63.4954 HARKER

010

R E P O R T

on the property of

PERREX RESOURCES INC.

Harker, Elliott and Thackeray Townships

Northeast Ontario

OMET  
DEC 22 1988

Timmins, Ontario,  
October 7, 1985.

R. J. Bradshaw, P. Eng.,  
Geologist.

MINISTRY OF NORTHERN  
ONTAARIO DEVELOPMENT AND MINES  
TIMMINS OFFICE

L.M.E.P.  
DEC 22 1985



32005NW0396 63.4954 HARKER

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C.M.E.P.

## S U M M A R Y

Perrex Resources Inc. holds a contiguous group of 103 unpatented mining claims in Harker, Elliott and Thackeray Townships in northeastern Ontario. The property is accessible by a truck road running south for eight kilometres from highway 101. This main westerly trending route provides access to Timmins, a distance of 106 kilometres or Kirkland Lake via intersecting highways.

Based on airborne magnetic maps coupled with Township geological maps published by the Ontario government, it is apparent that the Perrex property overlies the same geological rock units which host gold deposits recently discovered to the northeast in Holloway Township. These rock units strike northeast and dip south.

Government maps display limited exposure of the more resistant mafic volcanic rocks which implies that the rock assemblage in the area is dominantly of this type. The magnetic profiles, intensive exploration to the northeast, and two previous drill holes on the Perrex property indicate that the relatively thick mafic volcanic units are interbedded with sediment-tuff horizons. These units are the loci for shear faulting and accompanying alteration.

To the northeast in Holloway Township, adjacent to the Harker Township boundary, Barrick Resources and Canamax Resources have outlined significant gold deposits in the sediment-tuff units. There is apparently substantial evidence that these deposits are

syngenetic having, therefore, considerable potential for economic size and uniform distribution of gold.

It has been reported in press releases that Barrick has outlined a deposit of 1.3 million tons averaging 0.18 oz. gold per ton. Sinking of a 1200 foot (366 metre) shaft is now underway to provide underground access for further exploration and development.

Also to the northeast of the Perrex property, about 3.5 kilometres, is present a thin rhyolite unit which hosts significant gold mineralization. This mineralization, although stratabound, is likely epigenetic. Mineralized fluids have been channeled into the fractured relatively incompetent rhyolite.

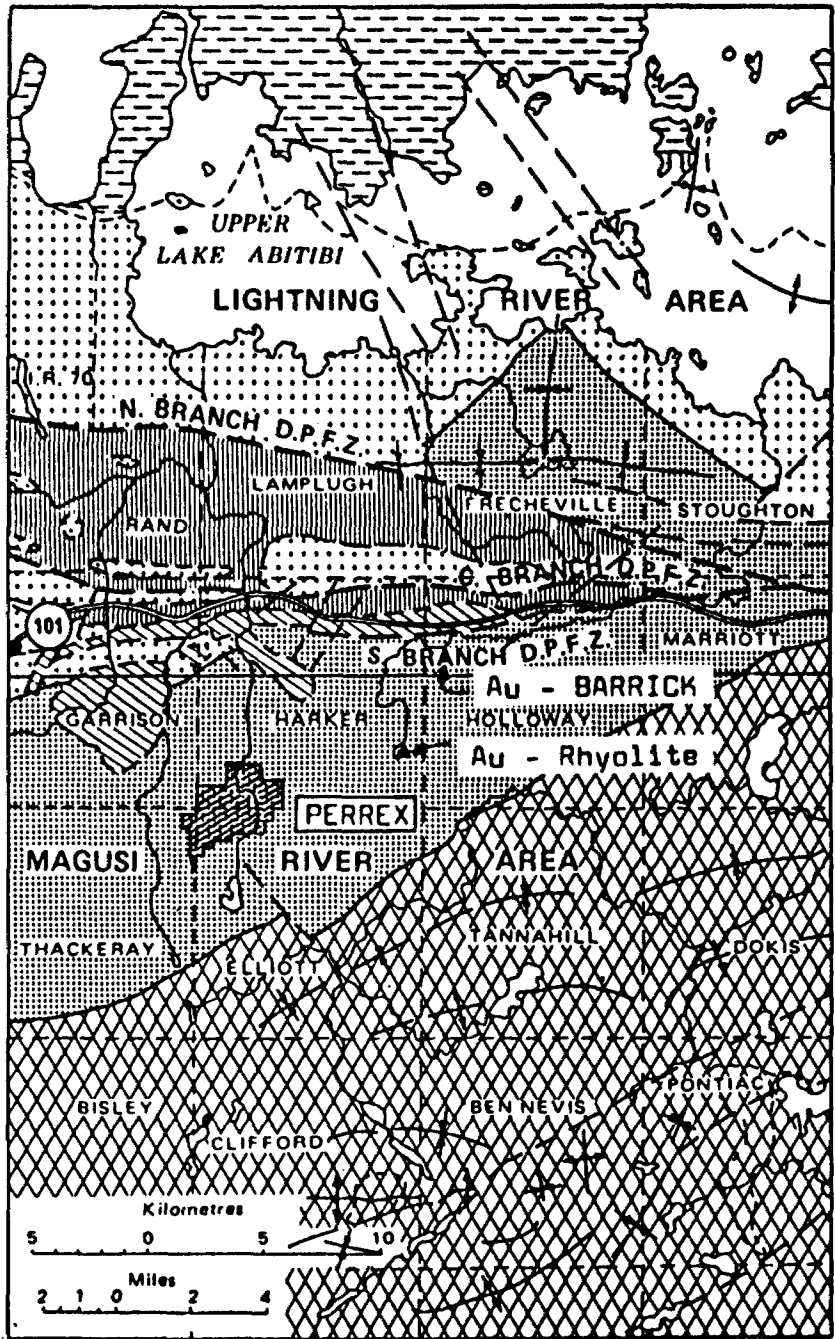
Both the rhyolite and sediment-tuff bed or equivalent units cross the Perrex property. These rocks merit special attention in the search for gold. Formulation of an exploration programme on the Perrex claims must take into consideration the widespread deep overburden and lack of rock exposure.













A minimum programme costing approximately \$150,000. is recommended. This programme initially includes establishment of base lines and grids, stripping and mapping of one specific area of outcrop, a limited magnetic survey and attendant contingencies estimated to cost \$19,000. The base lines will provide control for the location of 28 overburden drill holes to acquire till samples in the search for gold dispersion trains having a source in the favourable rock units. This drilling, sampling, analyses and documentation is estimated to cost \$56,000. Finally, based on

results of these programmes, a minimum 3000 feet of diamond drilling will be required. At an estimated overall cost of \$25 per foot, this work would cost \$75,000.

Significant gold values encountered in this preliminary programme would be the subject of an interim review and report and necessitate substantial additional drilling.

DEC 21 1968



-  Fault
-  Syncline
-  Anticline
-  Conformable contact
-  Unconformable contact
-  Intrusive contact
-  Abitibi Batholith
-  Destor - Porcupine Complex
-  Blake River Group
-  Kinojevis Group
-  Stoughton - Roquemaure Group
-  Hunter Mine Group

GENERAL GEOLOGY

Part of Northeastern Ontario

October

1985



*R. J. Bradshaw*  
Oct. 7.85

U.M.E.F.

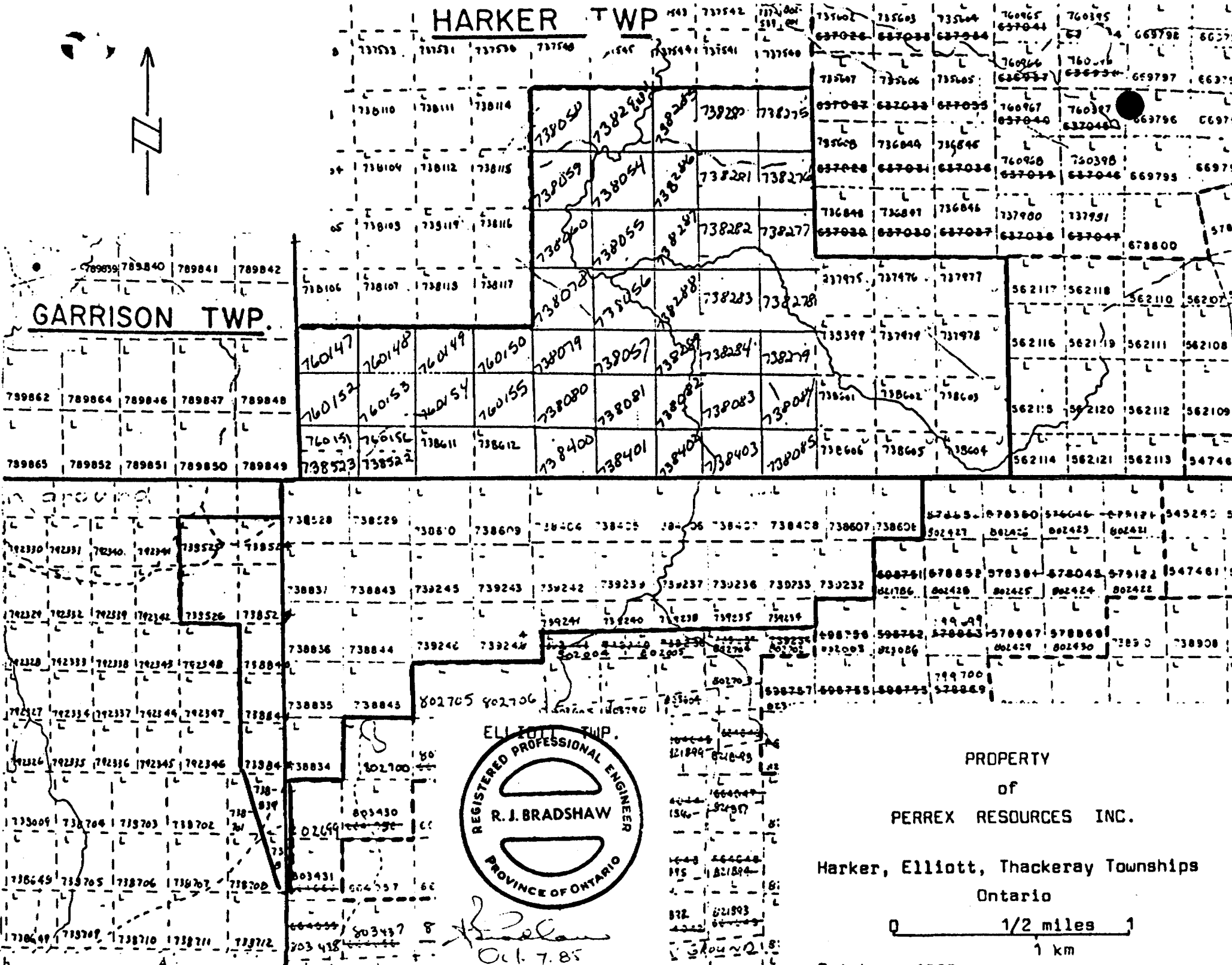
Figure 1

After: DGS Map 2433

# HARKER TWP

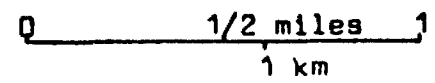


# GARRISON TWP.



PROPERTY  
OF  
PERREX RESOURCES INC.

Harker, Elliott, Thackeray Townships  
Ontario



## INTRODUCTION

Officers of Perrex Resources Inc. have requested the writer to prepare a report on their 103 claim property in Harker, Elliott and Thackeray Townships. Although very little work has been undertaken on this drift-covered property, it is considered to be a gold prospect. It lies generally on strike with gold-bearing rock units several kilometres to the northeast.

Pertinent Ontario government publications describing the geology and geophysics of the area, described under References, are the main source of data and interpretation presented in this report. On September 25<sup>th</sup>, the writer examined the only known area of rock exposure on the property. Also over the past several years the writer has undertaken six other projects in the area.

Based on an interpretation of the geology of the region and taking into consideration the terrain and widespread deep overburden cover, a programme for exploration of the gold potential is proposed for the property.

## PROPERTY

The property consists of 103 contiguous, unpatented claims distributed in three Townships as follows:

<u>Harker Township</u>	<u>Days Work Completed</u>	<u>Expiry Date</u>
L738275 to 738290 inclusive - 16	60	Mar. 1, 1987
L737975 to 737979 inclusive - 5	60	Feb. 27, 1987
L738601 to 738606 inclusive - 6	60	Mar. 9, 1987
L738054 to 738060 inclusive - 7	60	Mar. 1, 1987
L738078 to 738085 inclusive - 8	60	Mar. 1, 1987



<u>Harker Township</u>		<u>Days Work Completed</u>	<u>Expiry Date</u>
L738399	- 1	60	Feb. 27, 1987
L738400 to 738403 inclusive	- 4	60	Mar. 1, 1987
L760147 to 760156 inclusive	- 10	60	Mar. 1, 1987
L738522 to 738523 inclusive	- 2	60	Mar. 1, 1987
L738611 to 738612 inclusive	- <u>2</u>	60	Mar. 9, 1987
	61		

Elliott Township

L738528 to 738529 inclusive	- 2	50	Mar. 1, 1986
L738834 to 738835 inclusive	- 2	60	Mar. 19, 1987
L738836 to 738837 inclusive	- 2	50	Mar. 19, 1986
L738843	- 1	50	Mar. 19, 1986
L738844 to 838845 inclusive	- 2	60	Mar. 19, 1987
L738607 to 738610 inclusive	- 4	60	Mar. 9, 1987
L738404 to 738408 inclusive	- 5	60	Mar. 1, 1987
L739232 to 739246 inclusive	- <u>15</u>	60	Mar. 23, 1987
	33		

Thackeray Township

L738838 to 738840 inclusive	- 3	80	Mar. 19, 1987
L738841	- 1	60	Mar. 19, 1986
L738842	- 1	50	Mar. 19, 1986
L738524 to 738525 inclusive	- 2	50	Apr. 25, 1986
L738526 to 738527 inclusive	- <u>2</u>	50	Mar. 1, 1986
	9		

The above information provided by the office of Perrex Resources has been confirmed by the Mining Recorder at Kirkland Lake, Ontario

In order to keep the claims in good standing, the claim holder is required to undertake assessment work each year. Over a

O.M.E.P.

period of five years 200 days is required, including 20 days the first year, 40 days for each of the second, third and fourth years, and 60 days work in the fifth year. Thereafter, providing the claim holder is willing to undertake the cost of a land survey, the claims may be leased from the Crown with the payment of annual rental fees.

Various types of exploration work qualify for assessment work credits. For example, each foot of diamond drilling is equivalent to one day assessment work. Each type of geophysical survey or a geological survey, satisfying government guidelines, may qualify for 20 days assessment work per claim.

Perrex have already undertaken 50 to 80 days assessment work on the claims in the form of geophysical surveys and reverse circulation drilling. Some of the claims expire in March and April of 1986. Prior to this period, further work should be undertaken to keep the claims in good standing. The reverse circulation drilling was completed on a 41 claim group adjacent to the northeast.

#### LOCATION AND ACCESS

Most of the claim group is situated in the southeast corner of Harker Township. The common corner of Harker, Elliott and Thackeray Townships is located 106 kilometres east of Timmins and 34 kilometres north of Kirkland Lake, Ontario.

Highway 101 which runs westerly from the Quebec provincial boundary through Matheson and Timmins is the main transportation

route in the area. It lies just south of the north boundary of Harker Township.

A truck road which runs southerly from highway 101 along the east side of the Ghost River provides access to the centre of the claim group and the south boundary of Harker Township.

The provincial government is currently surveying a new road from Kirkland Lake to highway 101 near the east boundary of Harker Township to provide better service for development of gold mines in the area. This road will provide easy and quick access to the property from Kirkland Lake.

#### PREVIOUS WORK

Interest in the area of the Parrex property stems mainly from the recent gold discoveries to the northeast in Holloway Township.

Just east of the Harker-Holloway Township boundary Barrick Resources have outlined 1.3 million tons averaging 0.18 oz. gold per ton on their McDermott property (Northern Miner, June 1985). Barrick are sufficiently encouraged that an underground test is to be undertaken on their deposit. Adjacent to Barrick, Canamax Resources have also encountered significant gold values. These new discoveries account for the provincial government's decision to proceed with a new road between Kirkland Lake and highway 101 adjacent to these properties.

Also northeast of the Perrex Resources property Newmont Exploration are currently evaluating a gold deposit on the Don Hurd property in Harker Township.

Perrex Resources et al own a 41 claim group between the Don Hurd claims and the subject property. Over the past few years Perrex have completed geophysical surveys and an overburden sampling programme using reverse circulation drilling equipment. This property has recently been optioned to Sherritt Gordon Mines Limited whom are expected to undertake a diamond drilling programme. Elsewhere in the area, particularly to the north adjacent to highway 101, several other companies are active.

Only a limited amount of work has previously been completed on the Perrex group of 103 claims. Recently, as described in a report by Mary Greer (March, 1985), the north sector of the property has been covered by magnetic and VLF electromagnetic surveys. The survey area includes claims L738054 to 738060 inclusive, L738275 to 738290 inclusive, L738078, and L738079.

Within the above area, apparently on claim L738055, Amax Exploration Inc. (Canamax) previously drilled a hole in 1968. This hole and one other, 1.6 kilometres to the southwest, were drilled to test coincident induced polarization and electromagnetic anomalies.

## GEOLOGY

### General

The geology of the region is documented in various Ontario

government reports including Geology of Harker Township by J. Satterly published in 1952 and Geology of Thackeray, Elliott, Tannahill and Dokis Township by L. S. Jensen in 1978. A series of airborne geophysical plans also assist the interpretation of the geology. These include maps 80598, 80599, 80608 and 80609 published in 1984 by the Ontario Geological Survey which display results of an electromagnetic survey and a total intensity magnetic survey.

Within the property boundaries rock exposure is almost nonexistent. Geology of the property is, therefore, based on projections from areas having some rock exposure as shown on Map 1951-4, the government airborne geophysical survey (1984) and two holes drilled by Amax (Canamax) in 1968.

The only known area of rock exposure was examined by the writer. This outcrop is situated on claim L738607, Elliott Township, in the southeast sector of the property. With respect to a newly established grid on the property, the area of exposure lies between Lines 0 and 4E at 13+00 South. Generally the same sequence of rock was observed as displayed on Figure 3 by Jensen (1978). Stripping by the writer, however, revealed a narrow north trending diabase dyke, a pyritized, sheared and laminated mafic tuff, apparently a few metres wide, and a intermediate flow top breccia which may either be a float or equivalent to the rock classified by Jensen as a hyaloclastite. Carbonate-filled fractures in the breccia are splashed with pyrite and chalcopyrite.

The terrain traversed by the writer has been recently

timbered. Second growth includes alders and jackpine. Except along the course of the Ghost River and its tributaries, which have steep embankments, relief in the area is not significant.

#### Regional Geology

Harker and Elliott Townships are situated almost centrally within a vast assemblage of mainly volcanic and sedimentary rocks which trend easterly for about 350 kilometres, termed the Abitibi Greenstone Belt.

Particularly nearby major east trending faults the Abitibi rocks host gold mineralization as exemplified by the numerous past and present producers at Kirkland Lake and Timmins in Ontario and Val D'Or and Rouyn-Noranda in Quebec. The east trending Porcupine-Destor fault in the north half of Harker Township is in proximity to many gold mines over its 300 kilometre length.

The northeasterly trending volcanic-sedimentary rock assemblage on the Perrex property is part of the Kinojevis Group which is more than 10 kilometres thick. These rocks form the north limb of a synclorium which widens and plunges eastward toward the provincial boundary.

#### Local Geology

The one known area of rock exposure on the Perrex claim group is located on the south flank of a prominent magnetic linear which strikes northeasterly for several kilometres. The most northerly outcrops which are closest to the higher magnetic susceptibilities include dark coloured diabasic and gabbroic flows and

pillow lava. It is thereby suggested that the broad magnetic linear, underlying most of the southeast sector of the property, is underlain by similar mafic volcanics.

Along the north flank of the above described magnetic high are a series of poorly defined magnetic lows, forming a parallel linear, which interrupt the otherwise gently descending magnetic profile. This northeasterly trending feature crosses the centre of the property and to the northeast may correspond to a rhyolite horizon depicted on Satterly's map (1951-4).

The magnetic profile finally descends to form a trough representing a well defined northeasterly trending linear. This feature appears to be truncated by a northwesterly trending fault a few kilometres east of the property. Further to the northeast, the linear if projected, corresponds to the assumed Ghostmount fault (Satterly, 1951-4).

Within the Perrex property a number of airborne conductor intercepts are present within the linear magnetic low. Pyritized graphite intersected in the 1968 Amax drilling would account for these conductors. This drilling indicates a section of variably sheared, carbonatized, chloritized and partially graphitic tuffs and argillite 100 to 200 metres thick bounded by mafic volcanic rocks.

The unit trends more or less uniformly southwest except for a section several hundred metres long in the vicinity of the

O M E P

southwest corner of Harker Township. Here the linear shows a perceptible change in direction. This warp may be attributed to folding or faulting or a combination thereof.

To the northwest of this unit the steeply ascending magnetic profile indicates the presence of a thick unit of mafic volcanics confirmed in part by one of the Amax (1968) holes.

This whole assemblage dips and faces to the south. There is little evidence on the airborne magnetic survey plans for the cross faults depicted on O.G.S. map 2368 of Elliott Township. On the other hand there is substantial evidence for the presence of northeasterly trending shear faults. The Amax drilling in 1968 intersected widespread shearing in the sediment-tuff horizon in the northwest sector of the property. Also, if the Ghostmount fault (Map 1951-4) were projected southwestwards, it may correspond to the sediment-tuff unit.

#### Economic Geology

The potential on the Perrex property is mainly based on the recent discoveries of gold mineralization by Barrick Resources and Canamax Resources, several kilometres to the northeast in Holloway Township.

Barrick Resources plans to sink a 1200 foot (366 metres) shaft to undertake underground tests and ultimately make a production decision by the fall of 1986 (Northern Miner, June, 1985). Their deposit of 1.3 million tons, grading 0.18 oz. gold per ton, is situated adjacent to the south of the Porcupine-Destor fault.



near the west boundary of Holloway Township.

The Barrick deposits and gold mineralization discovered by Canamax Resources are apparently located in an altered sediment-tuff unit either coinciding with or a few hundred metres north of the horizon marked by the Ghostmount fault. Field geologists active in the area generally surmise that these deposits are stratabound and derived from a paleoplacer in the sediments (personal communications). Such an origin implies uniform dimensions and grade.

Gold-bearing mineralization on the recently optioned Don Hurd property in the east-central sector of Holloway Township is also confined to a specific rock unit. Quartz stringers and veins follow a fracture zone in a rhyolite unit. Although the gold mineralization is stratabound it is unlikely that it was originally deposited during the rock forming processes.

Other gold deposits in the area display the typical characteristics of an epigenetic quartz lode. Following fractures, faults and other zones of weaknesses the mineralization is erratic in dimensions and distribution. Most significant deposits of this type are spatially if not genetically related to the Porcupine-Destor fault.

In Amax hole KX-27-68, apparently drilled on Perrex claim L760149, a seven foot section from 675 to 682 feet assayed 0.01 oz. gold per ton. No metal assays were provided in the log of hole KX-28-68 on claim L738055. Canamax (Amax) officials imply that no

samples were taken in this hole.

### CONCLUSIONS

Government published geological and geophysical maps and reports suggest that the area is underlain by a thick sequence of mainly volcanic rocks which strike northeasterly and dip south. Two drill holes on the Perrex property (1968), rock exposure to the northeast, coupled with more intensive exploration work reveals that substantial beds of generally altered sediment-tuff are present in the immediate area. These units, formed during quiescent periods of vulcanism, are represented by magnetic linears of low magnetic susceptibility. They are less resistant to erosion and seldom exposed.

To the northeast in Holloway Township these sediment-tuff units apparently host important gold deposits being developed by Barrick Resources and Canamax Resources.

So far of secondary importance are the existence of thin rhyolite units to the east which host gold-bearing quartz lode deposits. The Don Hurd property on strike about 3.5 kilometres to the northeast displays this type of mineralization.

It is apparent that both the sediment-tuff and rhyolite units cross the Perrex property. These horizons particularly where disrupted by shear or cross faults merit special attention. The government airborne magnetic survey does not indicate significant displacement of magnetic linears that would represent cross faulting.

Shear faulting within a sediment-tuff unit has been reported in the Amax diamond drill logs. This unit, which crosses the northwest sector of the Perrex property, displays a warped configuration in the northwest corner of Elliott Township (claim L738528).

A ground magnetic survey covering about 10 claims, centred by L738528, would assist in outlining this structure which may be influenced by cross faulting.

Geophysical methods are not likely to detect mineralization associated with gold because of the widespread deep overburden present on the claim group. Overburden sampling, using reverse circulation equipment, is therefore considered to be the best technique for finding diamond drill targets.

#### RECOMMENDATIONS

Initially, it is recommended that two base lines be established on the property to provide location control for the exploration work herein proposed. These parallel picket lines are spaced at 1050 metres as shown on Figure 4. The southwest portion of the north line is offset to the south to accommodate positioning of reverse circulation drill holes and a magnetic survey grid. Similarly the locations of proposed reverse circulation drill holes are shown on Figure 4. More specifically, the programme recommended for the Perrex property is as follows.

1. Establishment of base lines - 10 kilometres @ \$185 per km . . . . .	\$ 1,850.
2. Establishment of geophysical survey grid with picket lines at 100 metre intervals centred by claim L738528 - 14 kilometres @ \$185 per km . . . . .	2,590.
3. Magnetic survey - 15 km @ \$100 per km . . . . .	1,500.
4. Stripping and mapping of outcrop situated on claim L738408 . . . . .	3,000.
5. Drilling two tiers of reverse circulation holes at 400 metre intervals along base lines - 28 holes @ \$2000 each including supervision and analyses . . .	56,000.
6. Diamond drilling a minimum of 3000 feet estimated to cost \$25 per foot including supervision, recording and assaying . . . . .	75,000.
7. Contingencies . . . . .	<u>10,060.</u>
	\$150,000.

The reverse circulation drill holes have been located parallel to and south of linear magnetic lows interpreted to represent horizons of sediment-tuff or rhyolite. By sampling and analyzing the till beds within the Quaternary section, gold may be detected representing a dispersal train from a source to the north up-ice.

The stripping and mapping of the outcrop area on claim L738408 is proposed to assist detailed prospecting and provide a better understanding of the local geology.

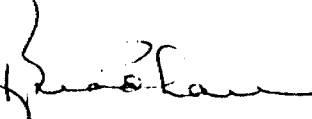
Laboratory and analytical work on the till samples coupled with an interpretation of the airborne and ground magnetic surveys is expected to indicate zones having potential for gold.

mineralization. Should significant gold values be encountered by the preliminary drill programme proposed, substantial additional drilling would be required and form the subject of an interim review and report.



Timmins, Ontario,  
October 7, 1985.

Respectfully submitted,  
SHIELD GEOPHYSICS LIMITED,

  
R. J. Bradshaw, P. Eng.,  
Geologist.

R E F E R E N C E S

- Bradshaw, R.J.  
1984,85                      Report on the property of Perrex Resources Inc.  
(41 claims) Harker Township, Ontario.
- Greer, Mary  
1985                              Magnetic and Electromagnetic Survey on  
Airborne Group (24 claims), Harker Township,  
Ontario.
- Jensen, L.S.  
1978                              Geology of Thackeray, Elliott, Tannahill and  
Dokis Townships, Ontario Geological Survey  
Report 165.
- Satterly, J.  
1951                              Geology of Harker Township, Ontario Department  
of Mines, Map 1951-4 enclosed.

Maps

- 80598, 80599,  
80608, 80609  
1984                              Airborne Electromagnetic and Total Intensity  
Magnetic Survey for the Ontario Geological  
Survey, Townships of Garrison, Harker,  
Thackeray and Elliott.

C E R T I F I C A T E

I, Ronald J. Bradshaw, residing at R. R. 2, Airport Road, a consulting geologist with office facilities at R. R. 2, Airport Road, Box 630, Timmins, Ontario, do hereby certify that:

I attended Queen's University, Kingston, Ontario, and graduated with an Honours B.A. degree in Geological Sciences in 1958.

I am a Fellow of the Geological Association of Canada, a Member of the Canadian Institute of Mining and Metallurgy and of the Association of Professional Engineers of Ontario.

This report is based on the listed References and my visit to the property on September 25, 1985.

I have no direct or indirect interest in the property, shares or securities of the Company or any affiliate, nor do I expect to receive any such interest.

Timmins, Ontario,  
October 7, 1985.

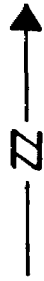


A handwritten signature in black ink, appearing to read 'R. J. Bradshaw', written over the right side of the professional seal.

R. J. Bradshaw, P. Eng.,  
Geologist.

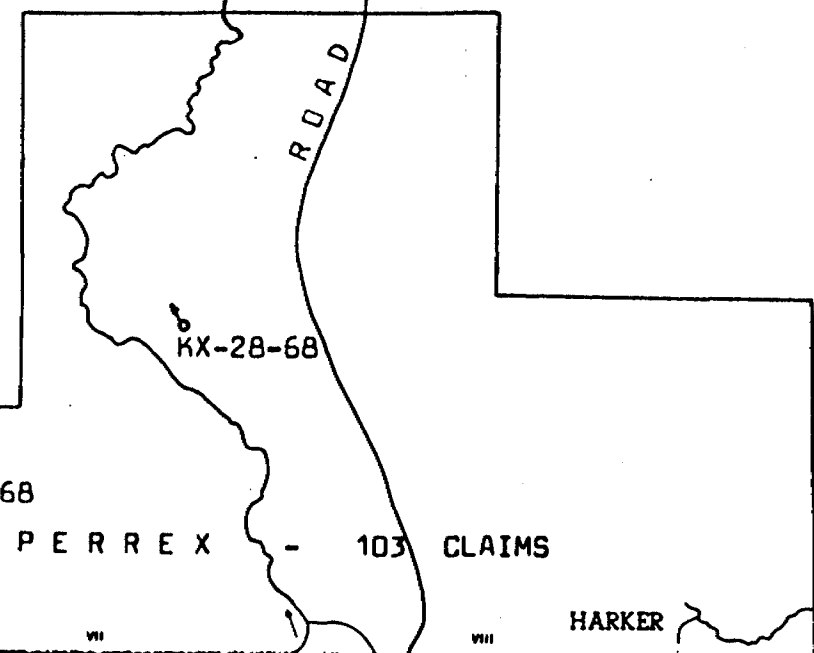
~~CONFIDENTIAL~~

C.M.E.P.



*Bradshaw*  
Oct. 7. 85

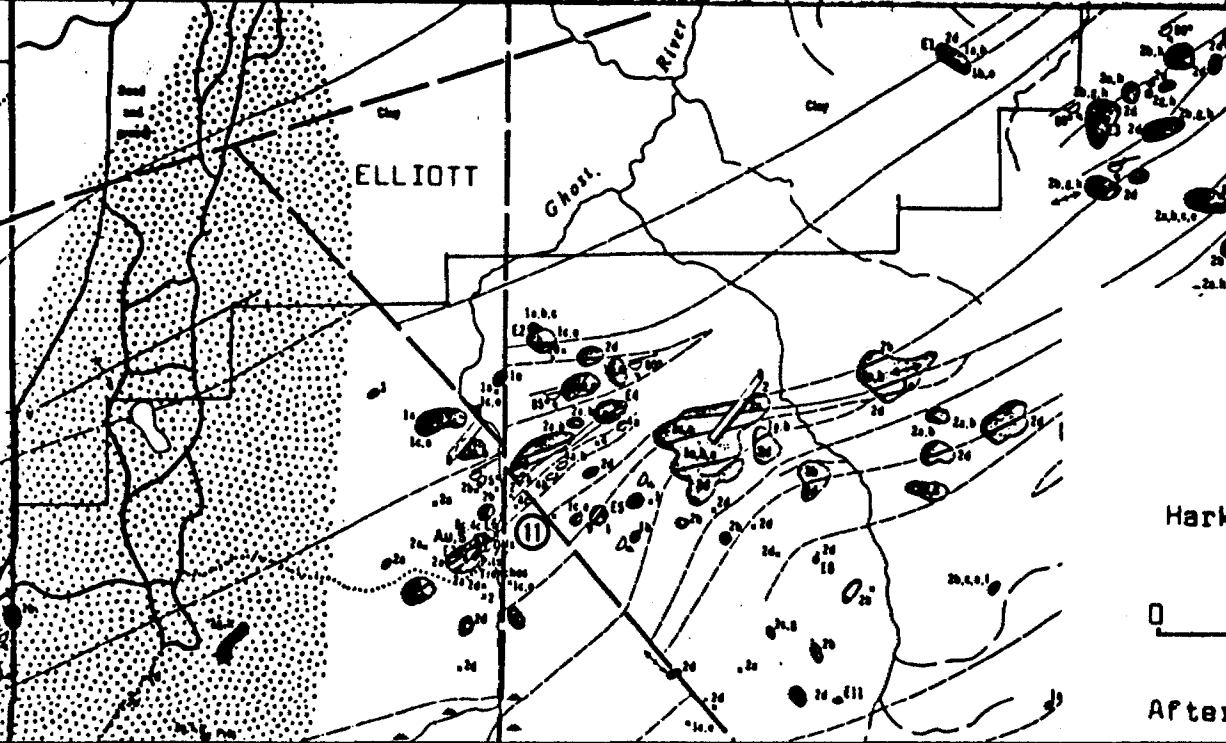
GARRISON





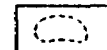

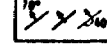
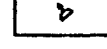

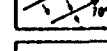
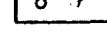
J. J. Newman Fourth Baseline 1907



THACKERAY



### LEGEND

-  2 Unsubdivided black to dark green iron-rich basaltic and andesitic rocks.
- 2a Massive fine-grained flows.
- 2b Pillowed flows.
- 2c Flow-top breccia, pillow-breccia.
- 2d Diabasic to gabbroic textured massive flows.
- 2e Broken pillow-breccia (1 to 3 cm fragments).
- 2f Fine-grained hyaloclastite, reworked tuff.
- 2g Hyaloclastite.
- 2h Variolitic flows.
- 2j Amygdaloidal flows.
- 2k Interflow sediments (chert).
  
-  1 Unsubdivided grey to green magnesium-rich basaltic rocks.
- 1a Massive fine-grained flows.
- 1b Pillowed flows.
- 1c Flow-top breccia, pillow-breccia.
- 1d Diabasic to gabbroic textured massive flows.
- 1e Hyaloclastite.
- 1g Variolitic flows.
- 1h Amygdaloidal flows.
  
-  Area of bedrock outcrop.
-  Bedding, top unknown; (inclined, vertical).
-  Bedding, top indicated by arrow; (inclined, vertical, overturned).
-  Lava flow; top (arrow) from pillows shape and packing.
-  Fault; (observed, assumed). Spot indicates down throw side, arrows indicate horizontal movement.
-  Anticline, syncline, with plunge.
-  Drill hole; (vertical, inclined).

Property of  
PERREX RESOURCES INC.

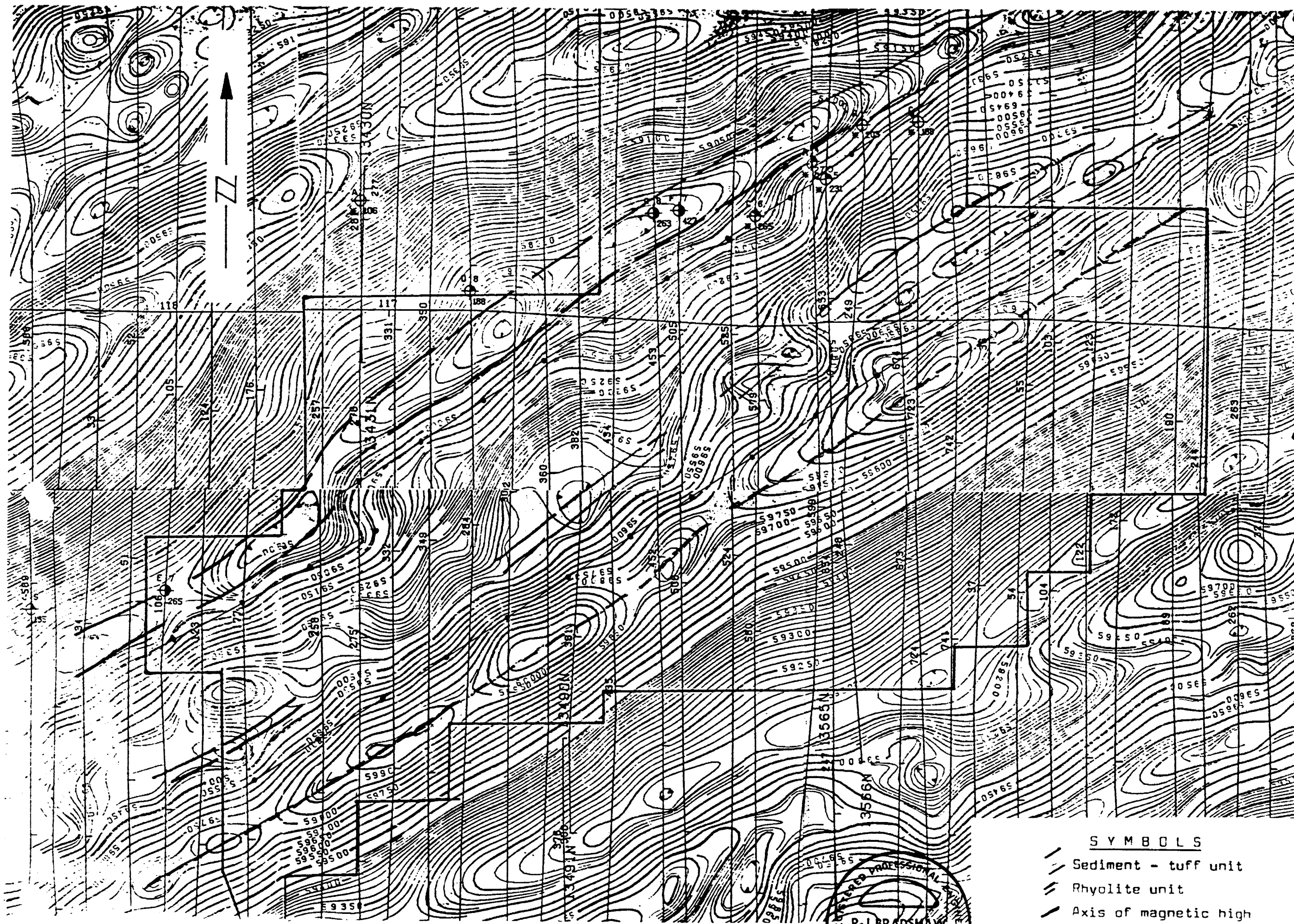
in  
Harker, Elliott & Thackeray Twp.  
Northeast Ontario



1 : 31,680 or 1" to 1/2 mi.

After: OGS map 2368 Oct. 1985

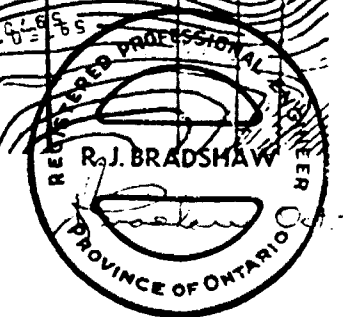




After OGS Maps:  
 80598, 80599,  
 80608, 80609

PERREX PROPERTY - AIRBORNE MAGNETIC PLAN

OCT. 1985 0 500 1000m 1 : 20,000 Fig. 4



- SYMBOLS**
- Sediment - tuff unit
  - Rhyolite unit
  - Axis of magnetic high
  - Base line with location of reverse circulation hole



June 17, 1986



32D05NW0396 63.4954 HARKER

020

Mr. Alex H. Perron  
Perrex Resources Inc.  
103 Government Road East  
Kirkland Lake, Ontario  
P2N 1A9

**Re: Interpretation of magnetic data,  
Harker-Holloway Gold Area**

Dear Mr. Perron,

This is a progress report on the study that we are currently carrying out of the available magnetic data in the Harker-Holloway area.

Work Completed

At the present time we have acquired, processed and interpreted aeromagnetic data covering approximately three townships, surrounding your properties. The data we have used are the OGS-Questor magnetics, flown at a line spacing of 200 m and an altitude of 120 m. You already have the published total intensity maps and some second vertical derivative data in the area. After testing several filters we decided on a vertical magnetic gradient map (first vertical derivative) and prepared this at scale 1:31,680 (1 inch to  $\frac{1}{2}$  mile). A copy of this map in Applicon colour is attached to this letter.

Our interpretation is based primarily on the vertical gradient data but refers also to the total magnetic field. A preliminary interpretation map is presented with this letter.

The ground magnetic survey data on your Airborne Property has been digitized and processed, but interpretation has only just started. We have processed the data and obtained a good vertical magnetic gradient map at scale 1 inch to 400 feet. This is available now in Applicon colour and as contours on mylar. Some computer modelling has been done in the more interesting parts of the property. We expect the study to be completed early in July.

.....2



### Interpretation of Airborne Data

The interpretation map agrees moderately well with the geological mapping by Satterly (1951) and the more recent compilation of Jensen and Langford (1985). Accordingly, we have adopted the stratigraphic nomenclature used in the later publication.

Magnetically, however, several of the mapped units breakdown into distinct sub-units of significance. Specifically, Unit 5 (the magnesium-rich tholeiitic sequence) sub-divides into a typical basaltic sequence (Unit 5), a slightly iron-rich sequence (Unit 5a) and a predominantly sedimentary sequence (Unit 5b). The significance of these particular subdivisions rests in their close correlation with the mineralized zone on the Barrick property and their widespread occurrence on your own properties in Harker Township and adjacent areas.

Structurally, we have recognised a number of the major E-NE trending shears or fracture zones, and have delineated these more accurately, we think, than they are shown on available geological compilations. Since these zones appear to closely control the gold mineralization in the area we have taken considerable pains to identify them in the vicinity of your properties. We have been able to recognise four such zones in the vicinity of your Airborne Property, and these zones also cross some of your other properties.

The Ghostmount Zone, according to our interpretation, lies some 2,000 feet to the north of the zone that you have so far been concentrating on. The latter zone appears to parallel the Ghostmount Zone for almost 9 miles, flanking the predominantly sedimentary Unit 5b over most of its length. While this zone is clearly of interest, we would recommend testing the interpreted Ghostmount Zone extension at this time. Using the Barrick property as a model, we would recommend avoiding areas where the sedimentary unit is thickest. Brittle fracturing appears to be a major control, and the magnesium-rich tholeiites would appear to be the most favourable units in this regard.

Two additional zones cut the northwestern and southeastern corners of your Airborne Property. These zones lie in or adjacent to Unit 6 - the iron-rich tholeiitic sequence. The ground geophysics indicates, however, considerable banding within this sequence, suggesting interlayered magnesium-rich and/or sedimentary members. These could be of considerable interest in your future drilling program.



Specific drilling recommendations should follow the close examination of the ground magnetic data.

Cross-faulting in a N-S to NW-SE direction has been easy to recognise throughout the area. We do not regard this faulting as an important control for the gold mineralization. However, the displacements on these faults are indicative of the competence of the country rocks and a guide to where brittle fracturing may have occurred.

#### Recommendations

Four NE trending shear or fracture zones appear to traverse the Perrex Resources Airborne Property and adjacent ground to the west and east in which you hold an interest. Additional zones may be present on other ground you hold in the area. These fracture zones resemble in their magnetic characteristics and geological context the major silicified breccia zone of Barrick Resources, referred to as the McDermott Zone. Accordingly, a serious program of gold exploration is justified.

We believe that the drilling by Perrex and Amax to date has been concentrated on a zone that flanks a substantial sequence of sedimentary rocks in the lower part of the Kinojevis Group. While there is a good possibility of gold mineralization in this zone, we recommend at this time that you concentrate on similar zones in the predominantly magnesium-rich metavolcanic sequence. This is well developed on your properties.

We recommend that the ground magnetometer coverage be extended southward and westward and that the data on the Sherritt-Perrex Joint Venture be analysed and interpreted.

Drilling should re-commence on the Airborne Property, based on the ground magnetometer interpretation that is currently being carried out.

Yours very truly,

PATERSON, GRANT & WATSON LIMITED

  
Norman R. Paterson, Ph.D., P.Eng.

NRP/rm



2653

July 31, 1986

Mr. Alex H. Perron  
Perrex Resources Inc.  
103 Government Road East  
Kirkland Lake, Ontario  
P2N 1A9



32D05NW0396 63.4954 HARKER

030

**Re: Interpretation of IP Data,  
Airborne Group, Harker Township**

Dear Mr. Perron,

We enclose prints of the IP pseudo-sections and a preliminary interpretation of the IP survey recently carried out by Mertens and MacNeil on your Airborne Property in Harker Twp.

Work Completed

The IP survey covered 3.2 line miles of profile at six separations, with a dipole spacing of 100 feet, and 0.5 line miles of coverage at five separations and a dipole spacing of 200 feet.

The survey was performed at two frequencies, 0.3 and 5.0 Hz, using a frequency-domain IP system consisting of a Phoenix Geophysics IPT-1 transmitter and an IPV-1 receiver.

The survey commenced on July 15, 1986 and was completed on July 21, 1986.

The results are presented in the form of seven pseudo-sections showing apparent resistivity, Metal Factor and Frequency Effect. The locations of the survey lines and the IP responses are shown in preliminary form in the attached Preliminary IP Interpretation Map.

The survey was carried out to look for zones of sulphide mineralization in the vicinity of three target areas selected as a result of an interpretation of ground magnetic data, and reported on in our letter of June 23, 1986.

.....2



## Interpretation

### Target A

This magnetic target was selected on the basis of a suspected NE-striking fault, possibly connecting to the northeast with the Ghostmount structure. A secondary but important control is the presence of small but conspicuous bodies of iron-rich volcanics lying to the south and adjacent to the interpreted fault. This environment is very similar to that of the McDermott gold deposit.

The IP survey confirms faulting in the vicinity and a suspected thickening of overburden near the magnetically interpreted fault. This also coincides with the Ghost River.

To the north and south of the fault (and river) there are some extremely weak/indefinite IP anomalies that could represent minor sulphide concentrations in bedrock, flanking NE trending shears or faults. The zones are too weak for quantitative interpretation.

The northern zone occurs on Line 32W only, although the fault continues through Line 40W. It appears to lie at a depth of about 50 feet but a depth based on the magnetic data of 80 feet is observed 300 feet to the northwest. Likewise, a depth of up to 200 feet or more is interpreted from the resistivity approximately 300 feet to the southwest.

Magnetically, the zone occurs 100 feet south of a steeply dipping contact with unit 6 (iron-rich tholeiites), probably within magnesium-rich tholeiites or mixed tholeiites and metasediments.

This target is not considered of high priority but we recommend a drill hole at 42+00N on Line 32W, inclined 60°N, to intersect the zone at a hole depth of about 200 feet.

The second zone lies approximately 200 feet south of the magnetically interpreted fault and adjacent to sharp bedrock irregularities indicated on the resistivity data. Again, the IP response is weak or indefinite, and the zone is too narrow for reliable estimates of possible sulphide concentration. It does not register at the 200 foot dipole separation, indicating that it must be less than about 50 feet in width.

The location of this zone is extremely interesting from a magnetic/geological viewpoint. It coincides almost exactly with the axis of a magnetic low, flanking an interpreted band of iron-rich unit 5a within the predominantly magnesium-rich tholeiitic sequence unit 5. This environment is almost identical to portions of the McDermott gold deposit.

.....3



A drill hole is strongly recommended to test this zone on Line 32W. A suggested location is 36+00N, inclined 60°N, to intersect the zone at a whole depth of about 300 feet.

#### Target B

This target was selected to cover an interpreted fault or shear inclined at about 20° from the main NE trending structure drilled earlier in 1986. It was selected on the basis of certain geological similarities with the McDermott zone and evidence in the earlier drilling of minor gold values in the magnesium tholeiites near the ends of the two holes.

The IP data confirm the relatively strong anomaly near the south ends of Lines 32W through 40W. Faulting is suggested by the resistivity data in the vicinity of the magnetically interpreted fault.

On Line 36W the IP response appears to extend northward at depth, terminating at an apparent fault-contact with iron-rich volcanics. This environment, taken together with the results of the previous drilling, justify a hole roughly in the location recommended on the basis of the ground magnetic data.

A recommended location is 24+00N, the hole inclined 60°N to intersect the fault at a hole depth of about 300 feet.

#### Target C

This target is on the strike extension of the structure previously drilled with holes PX-86-1 and PX-86-2. It was chosen on the basis of an apparent increase in the iron content of the volcanic/metasedimentary sequence, together with magnetic patterns that are not unlike those at the McDermott zone. Some INPUT anomalies occur to the north of target C, and the IP lines were extended to cover these.

Weak IP anomalies were registered on all three lines adjacent to the magnetically interpreted fault. The fault itself is confirmed by the resistivity data. On Line 56W the IP response is definite and is interpreted to lie at a depth of 50 to 100 feet. On the other two lines the response is indefinite and is believed to be at a depth greater than 100 feet.

Drilling is recommended on Line 56W at 19+00N. The hole should be inclined at 60°N. The center of the zone is expected to be intersected at a hole depth of about 250 feet.

.....4



A second, much stronger IP anomaly was registered under the input anomalies some 800 feet further north, on all three lines. The IP response resembles strongly the ones on Lines 32W through 40W which are believed to be caused mainly by graphite in mixed metasediments and pyroclastics. Faulting is suggested by the resistivity data both to the north and the south of the zone.

The IP response is also similar to that of the McDermott zone where pyrite is believed to be responsible. A slight drop in apparent resistivity over the zone compares with a similar drop over the McDermott deposit. Low resistivity on Lines 32W through 40W is attributed to overburden thickening and, possibly, graphite. Over the McDermott zone the overburden actually thins and the zone is highly silicified. The drop in resistivity is probably, therefore, due to the pyrite mineralization.

In the zone on Lines 56W through 64W it is probable that the drop in resistivity is associated with graphite. However, the zone is displaced from the interpreted center of the metasedimentary-pyroclastic sequence, and probably lies within magnesium tholeiites. On this basis it would appear to justify drilling.

A recommended location is 26+00N on Line 56W, inclined at 60°N to intersect the center of the zone at a hole depth of about 200 feet.

### Recommendations

Five drill holes have been recommended, totalling approximately 2,900 feet as follows:

#### Target A

Hole No. 1	500 feet	Line 32W, 42+00N
Hole No. 2	800 fet	Line 32W, 36+00N

#### Target B

Hole No. 4	600 feet	Line 36W, 24+00N
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.....5





Target C

Hole No. 3	500 feet	Line 56W, 19+00N
Hole No. 5	500 feet	Line 56W, 26+00N

We would also recommend delaying the drilling pending completion of ground magnetic work to the southwest and a review of the magnetic data on the 41-claim block to the northeast. It is possible that additional targets will be uncovered by these studies that could alter priorities or possibly point to additional targets of interest within the present study area.

Yours sincerely,

PATERSON, GRANT & WATSON LIMITED

Norman R. Paterson, Ph.D., P.Eng.

Encl.  
NRP/rm



32D05NW0396 63.4954 HARKER

040

MEMORANDUM ON THE RECONNAISSANCE INDUCED POLARIZATION

AND RESISTIVITY TEST SURVEY ON THE AIRBORNE GRID

MATHESON AREA, ONTARIO

FOR

PERREX RESOURCES INC.

ONTARIO GEOLOGICAL SURVEY ASSESSMENT FILES OFFICE  JUN 8 1989  RECEIVED
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At the request of Perrex Resources Inc., we have completed a brief reconnaissance induced polarization and resistivity Test Survey near Matheson, Ontario. The reconnaissance Test Survey was completed on a small grid that covered the position of airborne electromagnetic anomalies previously located.

The induced polarization and resistivity Test Survey was planned in an attempt to detect, and outline, any zones of metallic mineralization that might be present in the subsurface. For the reconnaissance Test Survey an electrode interval of  $x=200$  ft was used. Previous measurements using  $x=100$  ft, on two lines, had shown a considerable thickness of conductive overburden.

The results of the reconnaissance Test Survey are shown on the following attached data plots. The results have been plotted using the pseudosection format.

Line 44W	x=200'	Dwg. No.	IP 5428-1
Line 40W	x=200'	" "	IP 5428-2
Line 36W	x=200'	" "	IP 5428-3
Line 32W	x=200'	" "	IP 5428-4
Line 28W (South Part)	x=200'	" "	IP 5428-5
Line 28W (North Part)	x=200'	" "	IP 5428-6
Line 28W	x=100' (prev. data)	" "	IP 5428-7
Line 24W (South Part)	x=200'	" "	IP 5428-8

ONTARIO GEOLOGICAL SURVEY  
 ASSESSMENT FILES  
 OFFICE  
 JUN 8 1989  
 RECEIVED  
 O.M.E.P.  
 DEC 22 1989

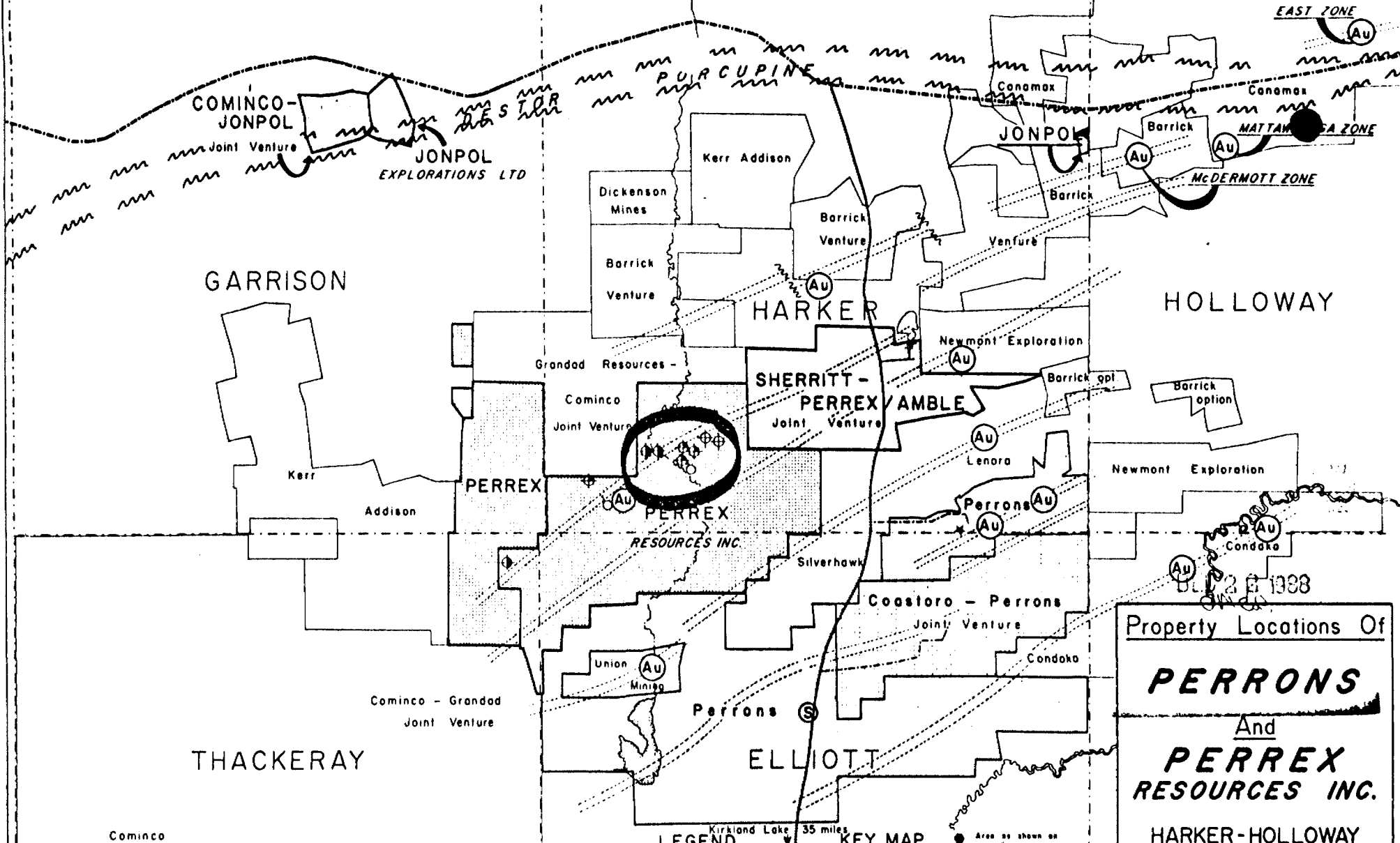
Line 24W (North Part)	x=200'	"	"	IP 5428-9
Line 20W (South Part)	x=200'	"	"	IP 5428-10
Line 20W (North Part)	x=200'	"	"	IP 5428-11
Line 16W (South Part)	x=200'	"	"	IP 5428-12

The presence of the conductive overburden layer can be seen on each of the apparent resistivity pseudosections. This is the case even for the measurements using  $x=200$  ft. The longest line surveyed was Line 32W (Dwg. No. IP 5428-4). Along the entire line, the apparent resistivities increase for the larger values of  $(n)$ . The least thickness of overburden appears to be at the south end of the data plot. To the north, the thickness of the overburden is variable. On all of the lines surveyed, the higher apparent resistivities measured for  $n=3$  and  $n=4$  indicate that the electrode intervals are large enough to be influenced by the bedrock parameters.

The attached phase IP results from the Barrick Resources Ore Zone in north-eastern Ontario and the Golden Hope-Teck Exploration Orebody in north-western Quebec indicate the character of the IP and resistivity anomaly to be expected from a zone of gold-bearing, metallic sulphide mineralization, beneath an appreciable thickness of conductive overburden.

The background IP effects measured during the reconnaissance Test Survey are fairly low in magnitude. Therefore, the anomaly detected on the three, or four, westernmost lines on the grid is quite definite. The anomaly is largest in magnitude, and the source is indicated to be at the least depth, on Line 44W. As shown on the Plan Map Sketch (Dwg. No. IPP 3141) the anomalous zone obviously extends to the west of the area covered by the Test Survey.

O.M.E.P.



EAST ZONE (Au)

COMINCO-JONPOL  
Joint Venture  
JONPOL  
EXPLORATIONS LTD

Dickenson  
Mines  
Barrick  
Venture

Kerr Addison

Barrick  
Venture

Conamex  
Barrick

Conamex  
Barrick

MATTAM ORA ZONE

McDERMOTT ZONE

GARRISON

HARKER

HOLLOWAY

Grandd Resources -

SHERRITT -  
PERREX / AMBLE  
Joint Venture

Newmont Exploration

Barrick opt

Barrick option

Kerr

Addison

PERREX

Cominco  
Joint Venture

PERREX  
RESOURCES INC

Lenora

Newmont Exploration

Perrons

Condoko

Silverhawk

Coastoro - Perrons  
Joint Venture

Condoko

Cominco - Grandd  
Joint Venture

Union  
Mining

Perrons

ELLIOTT

THACKERAY

Cominco

Kirkland Lake 35 miles

DEC 28 1988

LEGEND

KEY MAP

- GOLD ZONE (Au)
- Sedimentary horizon (dotted line)
- Sulphide mineralization (S)
- Fault (wavy line)
- Airborne EM anomaly (circle with cross)
- Diamond drill hole (circle with dot)
- Highway 101 (thick line)
- New Access road (dashed line)
- Secondary road (thin line)
- Bush Camp (star)



All data, areas of interest and property boundaries are approximate  
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Property Locations Of

**PERRONS**  
And  
**PERREX RESOURCES INC.**

**HARKER-HOLLOWAY GOLD AREA**

HARKER, ELLIOTT, THACKERAY AND GARRISON TOWNSHIPS  
LARDER LAKE MINING DIVISION  
DISTRICT OF COCHRANE, ONTARIO

2640 0 2640 5280  
Scale 1 inch to 2640 feet

**PERRONS**  
KIRKLAND LAKE CANADA

APPROVED BY ALEXANDER M PERRON  
DRAWN BY: MARY M. GREER  
NOVEMBER 1988

On Line 44W, the source is indicated to be at a relatively shallow depth; i.e., the  $n=1$  measurement for  $x=200$  ft is anomalous. Therefore, the source could be better located, and more fully evaluated, by making measurements using  $x=100$  ft.

The anomalous zone located during the Test Survey has the characteristics that we would expect from the type of source that is of geologic importance in the area. It is obvious that additional investigation is warranted.

Further, the extension of the reconnaissance survey into other areas could be expected to successfully locate any other zones of metallic mineralization that might be present.

PHOENIX GEOPHYSICS LIMITED

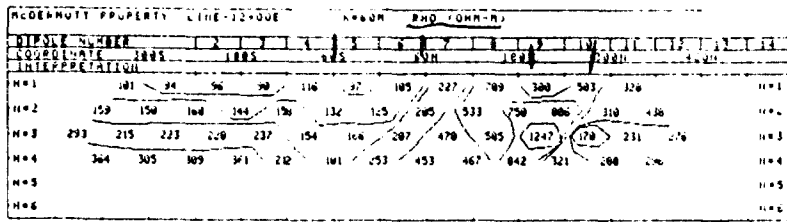


Philip G. Hallof, Ph.D., P. Eng.

Geophysicist



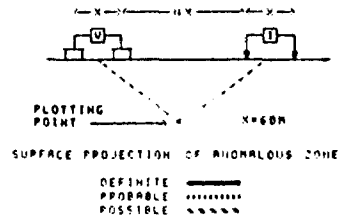
QMEP.



BARRICK RESOURCES CORP.

McDERMOTT GOLD PROPERTY  
HARKER & HOLLOWAY TWP / ONTARIO

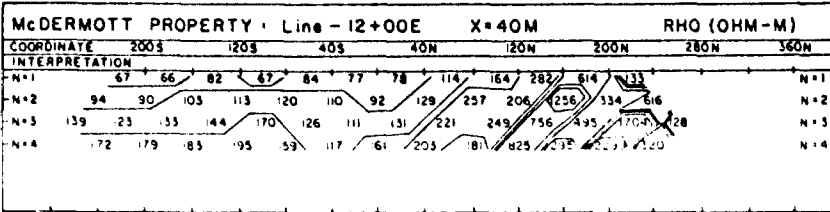
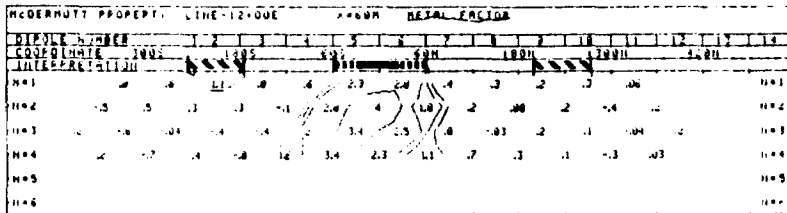
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FREQUENCY (HERTZ) 1.0 HZ DATE SURVEYED FEB 1985 APPROVED

NOTE- CONTOURS AT LOGARITHMIC INTERVALS 1, -1, 5, -2, -3, -5, -7, 5, -10 DATE

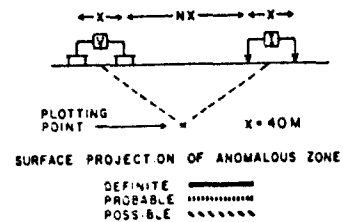
PHOENIX GEOPHYSICS LTD.  
INDUCED POLARIZATION AND RESISTIVITY SURVEY



BARRICK RESOURCES CORP.

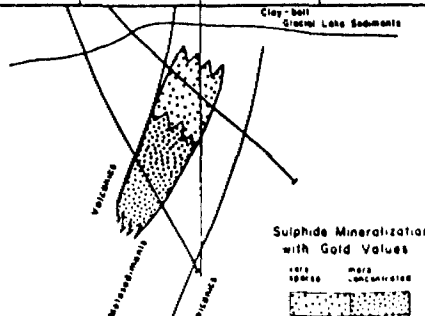
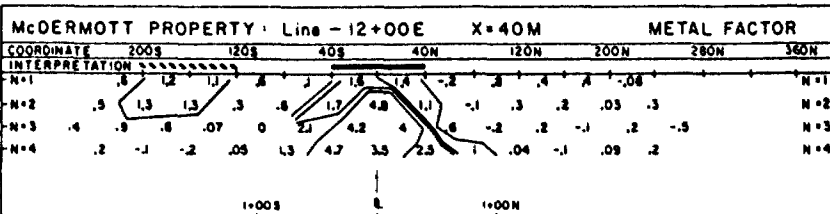
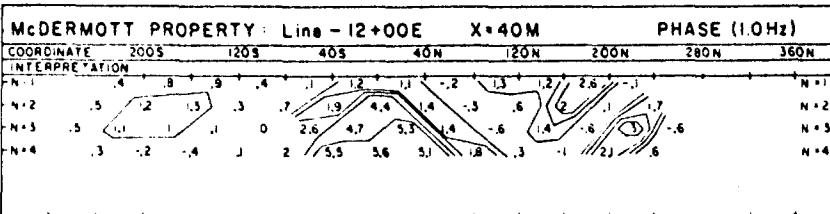
McDERMOTT GOLD PROPERTY  
HARKER & HOLLOWAY TWP / ONTARIO

LINE NO - 12+00E



FREQUENCY (HERTZ) 1.0 HZ  
NOTE- CONTOURS AT LOGARITHMIC INTERVALS 1, -1.5, -2, -3, -5, -7.5, -10

PHOENIX GEOPHYSICS LTD.  
INDUCED POLARIZATION AND RESISTIVITY SURVEY



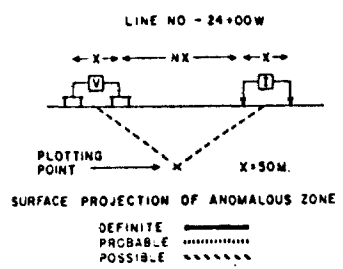
OMEF  
12-12-85

MAIN ZONE		Line - 24W				X = 50m.		RHO (OHM-M)							
COORDINATE		100N	200N	300N	400N	500N	600N	700N							
INTERPRETATION															
N+1		115	143	88	16	109	79	117	129	139	124	N+1			
N+2		99	203	225	247	210	135	142	188	199	202	218	N+2		
N+3		273	341	263	238	249	224	232	187	237	247	299	292	N+3	
N+4		433	425	405	267	213	247	349	284	219	273	340	373	330	N+4

MAIN ZONE		Line - 24W				X = 50m.		PHASE (1.OHz.)							
COORDINATE		100N	200N	300N	400N	500N	600N	700N							
INTERPRETATION															
N+1		17	2	19	27	33	6.3	1.7	1.2	1.1	N+1				
N+2		2.4	2.4	2.6	1.8	5.1	9.4	6	1.7	.6	.7	.1	N+2		
N+3		2.4	2.4	3.5	2.6	3.3	9.4	9.2	8.7	8	6	7	9	N+3	
N+4		2.6	2.6	3.4	3.6	5	9.6	7.4	11	8.5	3	.1	11.6	.8	N+4

MAIN ZONE		Line - 24W				X = 50m.		METAL FACTOR							
COORDINATE		100N	200N	300N	400N	500N	600N	700N							
INTERPRETATION															
N+1		1.5	1.4	1	1.7	3	1.8	1.9	9	9	9	N+1			
N+2		1.2	1.2	1.2	7	2.4	7	4.2	9	.3	.3	0.5	N+2		
N+3		9	7	1.3	1.1	1.3	4.2	4	4.7	.3	.2	2	.5	N+3	
N+4		.6	.6	.8	1.3	2.3	3.9	2.1	3.8	3.3	.1	.03	.4	.2	N+4

GOLDEN HOPE - TECK EXPLORATIONS  
ESTRADES TWP. DISCOVERY  
QUEBEC



NOTE - CONTOURS AT LOGARITHMIC INTERVALS 1, -1.5, -2, -3, -5, -7.5, -10  
FREQUENCY (HERTZ) 1.0 Hz.

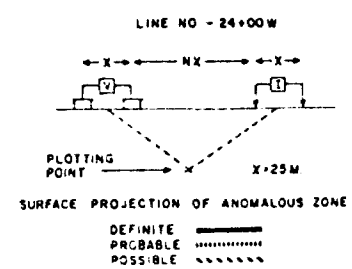
PHOENIX GEOPHYSICS LTD.  
INDUCED POLARIZATION AND RESISTIVITY SURVEY

MAIN ZONE		Line - 24W				X = 25m.		RHO (OHM-M)							
COORDINATE		225N	275N	325N	375N	425N	475N	525N							
INTERPRETATION															
N+1		86	60	76	63	58	60	67	70	81	76	N+1			
N+2		167	127	111	93	75	68	79	96	105	112	114	N+2		
N+3		246	195	175	144	103	83	89	115	139	141	148	152	N+3	
N+4		245	237	240	193	133	109	108	120	88	178	170	180	183	N+4

MAIN ZONE		Line - 24W				X = 25m.		PHASE (1.OHz.)							
COORDINATE		225N	275N	325N	375N	425N	475N	525N							
INTERPRETATION															
N+1		9	2.9	6	11	13	8	3	-3	3	1	N+1			
N+2		11	2.1	12	12	33	3.2	13	-14	1	2	-1	N+2		
N+3		13	1.8	9	2.9	4.1	6.7	5.5	5	-13	-14	-2	2	N+3	
N+4		12	2.2	9	3.3	6.7	8.4	8.8	5	9	-22	-17	-1	7	N+4

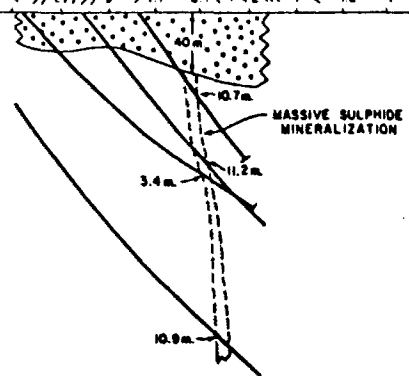
MAIN ZONE		Line - 24W				X = 25m.		METAL FACTOR							
COORDINATE		225N	275N	325N	375N	425N	475N	525N							
INTERPRETATION															
N+1		1	3.8	8	1.7	2.2	1.3	4	-4	4	1.3	N+1			
N+2		7	1.7	11	13	4.4	4.7	1.8	-1.5	1	2	-1	N+2		
N+3		5	9	3	2	4	8.1	6.2	4	-9	-1	1	1	N+3	
N+4		.5	9	4	1.7	5	7.7	8.1	4.2	1	-12	-1	-1	.4	N+4

GOLDEN HOPE - TECK EXPLORATIONS  
ESTRADES TWP. DISCOVERY  
QUEBEC



NOTE - CONTOURS AT LOGARITHMIC INTERVALS 1, -1.5, -2, -3, -5, -7.5, -10  
FREQUENCY (HERTZ) 1.0 Hz.

PHOENIX GEOPHYSICS LTD.  
INDUCED POLARIZATION AND RESISTIVITY SURVEY



EAST ZONE		Line - 17W						X = 50m.		RHO (OHM-M)			
COORDINATE		50N	150N	250N	350N	450N	550N						
N-1	INTERPRETATION	122	133	90	87	94	102	93	90	N-1			
N-2		266	238	173	119	120	141	160	140	134	N-2		
N-3		379	427	257	197	151	160	185	205	182	179	N-3	
N-4		517	517	413	275	238	179	188	217	253	236	224	N-4

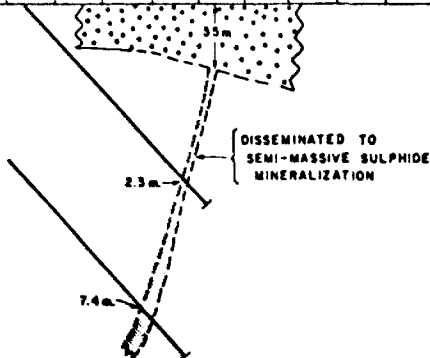
EAST ZONE		Line - 17W						X = 50m.		PHASE (1.0Hz)		
COORDINATE		50N	150N	250N	350N	450N	550N					
N-1	INTERPRETATION	-3	-6	3.4	10	1.4	-1	1.4	4	N-1		
N-2		-6	-9	3.7	13	11	2.3	-6	4	5	N-2	
N-3		1.4	-2.3	4.5	14	13	11	1.9	6	9	-2	N-3
N-4	T.M	4.5	3.4	15	13	11	10	2.5	2.1	1	-3	N-4

EAST ZONE		Line - 17W						X = 50m.		METAL FACTOR		
COORDINATE		50N	150N	250N	350N	450N	550N					
N-1	INTERPRETATION	-2	-3	3.8	12	1.5	-1	1.3	4	N-1		
N-2		-2	-4	2.1	11	9.3	1.6	-4	3	4	N-2	
N-3		4	-7	1.8	7	8.7	6.9	1	3	5	-1	N-3
N-4	T.M	9	8	5.4	5.6	6.4	5.5	1.2	8	0.4	-1	N-4

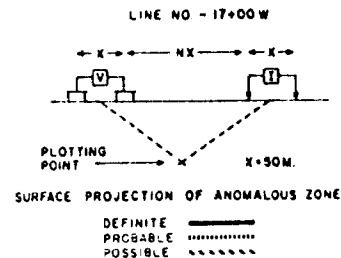
EAST ZONE		Line - 17W						X = 25m.		RHO (OHM-M)					
COORDINATE		100N	150N	200N	250N	300N	350N	400N							
N-1	INTERPRETATION	56	62	57	57	59	62	65	56	69	55	N-1			
N-2		115	79	82	78	74	88	81	90	82	73	N-2			
N-3		148	148	96	99	93	93	98	99	110	112	113	96	N-3	
N-4		208	179	167	108	114	109	111	107	135	143	146	90	116	N-4

EAST ZONE		Line - 17W						X = 25m.		PHASE (1.0Hz)					
COORDINATE		100N	150N	200N	250N	300N	350N	400N							
N-1	INTERPRETATION	7	5	3	1.7	2.1	1.5	1.7	2	7	1.1	N-1			
N-2		-5	2	3	2.4	5.3	4.4	2	-6	1	-1	4	N-2		
N-3		2.5	-8	2.2	2.6	8.8	12	4.4	-7	-2	-9	-2	1.3	N-3	
N-4		11	1.3	2	5	9.1	12	13	4.5	-8	-1.3	-9	5	2.2	N-4

EAST ZONE		Line - 17W						X = 25m.		METAL FACTOR					
COORDINATE		100N	150N	200N	250N	300N	350N	400N							
N-1	INTERPRETATION	1.3	3	5	2.3	3.6	-8	2.3	-4	1	2	N-1			
N-2		-4	3	4	5.1	7.2	5.6	2	-7	1	-1	5	N-2		
N-3		1.7	-5	2.3	2.4	9.5	13	4.3	-7	-2	-8	-2	1.4	N-3	
N-4		5	7	1.2	4.6	8	11	12	4.2	-6	-9	-6	6	1.9	N-4



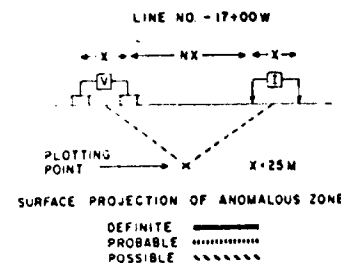
GOLDEN HOPE - TECK EXPLORATIONS  
ESTRADES TWP. DISCOVERY  
QUEBEC



NOTE - CONTOURS AT LOGARITHMIC INTERVALS 1, -1.5, -2, -3, -5, -7.5, -10

PHOENIX GEOPHYSICS LTD.  
INDUCED POLARIZATION AND RESISTIVITY SURVEY

GOLDEN HOPE - TECK EXPLORATIONS  
ESTRADES TWP. DISCOVERY  
QUEBEC



NOTE - CONTOURS AT LOGARITHMIC INTERVALS 1, -1.5, -2, -3, -5, -7.5, -10

PHOENIX GEOPHYSICS LTD.  
INDUCED POLARIZATION AND RESISTIVITY SURVEY



EAST ZONE		Line - 17W		X = 50m.		RHO (OHM-M)	
COORDINATE	50N	150N	250N	350N	450N	550N	
INTERPRETATION							
N-1	122	135	90	87	94	102	93 90
N-2	266	238	173	119	120	141	160 140 134
N-3	379	427	257	197	151	160	203 182 179
N-4	517	517	413	275	238	179	188 217 253 236 224

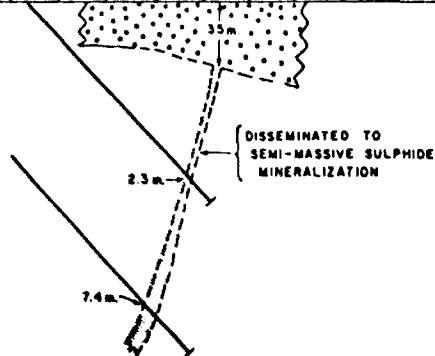
EAST ZONE		Line - 17W		X = 50m.		PHASE (1.0Hz)	
COORDINATE	50N	150N	250N	350N	450N	550N	
INTERPRETATION							
N-1	-3	-8	3.4	10	1.4	-1	1.4 4
N-2	-6	-9	3.7	13	11	2.3	-6 4 5
N-3	1.4	-2.3	4.5	14	13	11	1.9 8 9 -2
N-4	T.N	4.5	3.4	15	13	11	10 2.5 2.1 .1 -3

EAST ZONE		Line - 17W		X = 50m.		METAL FACTOR	
COORDINATE	50N	150N	250N	350N	450N	550N	
INTERPRETATION							
N-1	-2	-5	3.6	11	1.5	-1	1.3 4
N-2	-2	-4	2.1	11	9.3	1.6	-4 3 4
N-3	4	-7	1.8	7	8.7	6.9	1 3 5 -1
N-4	T.N	9	8	5.4	5.8	6.4	5.5 1.2 8 0.4 -1

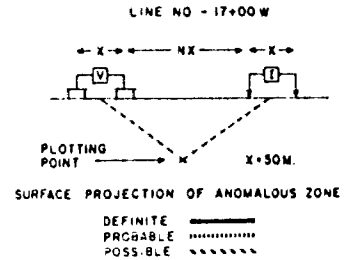
EAST ZONE		Line - 17W		X = 25m.		RHO (OHM-M)	
COORDINATE	100N	150N	200N	250N	300N	350N	400N
INTERPRETATION							
N-1	56	62	57	57	59	62	65 56 69 55
N-2	115	79	82	78	74	78	86 81 90 82 73
N-3	148	148	96	99	93	93	98 99 118 112 113 96
N-4	208	179	167	108	114	109	111 107 135 143 146 90 116

EAST ZONE		Line - 17W		X = 25m.		PHASE (1.0Hz)	
COORDINATE	100N	150N	200N	250N	300N	350N	400N
INTERPRETATION							
N-1	7	3	3	3	2.1	1.5	-2 7 11
N-2	-5	2	3	2.4	5.3	4.4	2 -6 -1 -1 4
N-3	2.5	-8	2.2	2.4	8.8	12	4.4 -7 -2 -9 -2 13
N-4	11	1.3	2	5	9.1	12	13 4.5 -8 -1.3 -9 5 12.2

EAST ZONE		Line - 17W		X = 25m.		METAL FACTOR	
COORDINATE	100N	150N	200N	250N	300N	350N	400N
INTERPRETATION							
N-1	1.3	5	5	2.3	3.6	8	2.3 1 2
N-2	-4	3	4	5.1	7.2	5.6	2 -7 .1 -1 5
N-3	1.7	-5	2.5	2.5	9.5	13	4.5 -7 -2 -8 -2 14
N-4	3	7	12	4.8	8	11	12 4.2 -6 -9 -6 8 1.9



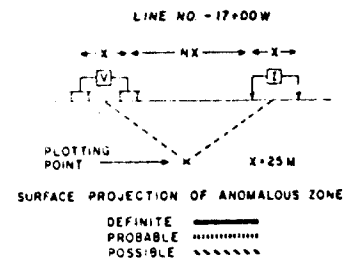
GOLDEN HOPE - TECK EXPLORATIONS  
ESTRADES TWP. DISCOVERY  
QUEBEC



NOTE - CONTOURS  
AT LOGARITHMIC  
INTERVALS 1,-1.5  
-2,-3,-5,-7.5,-10

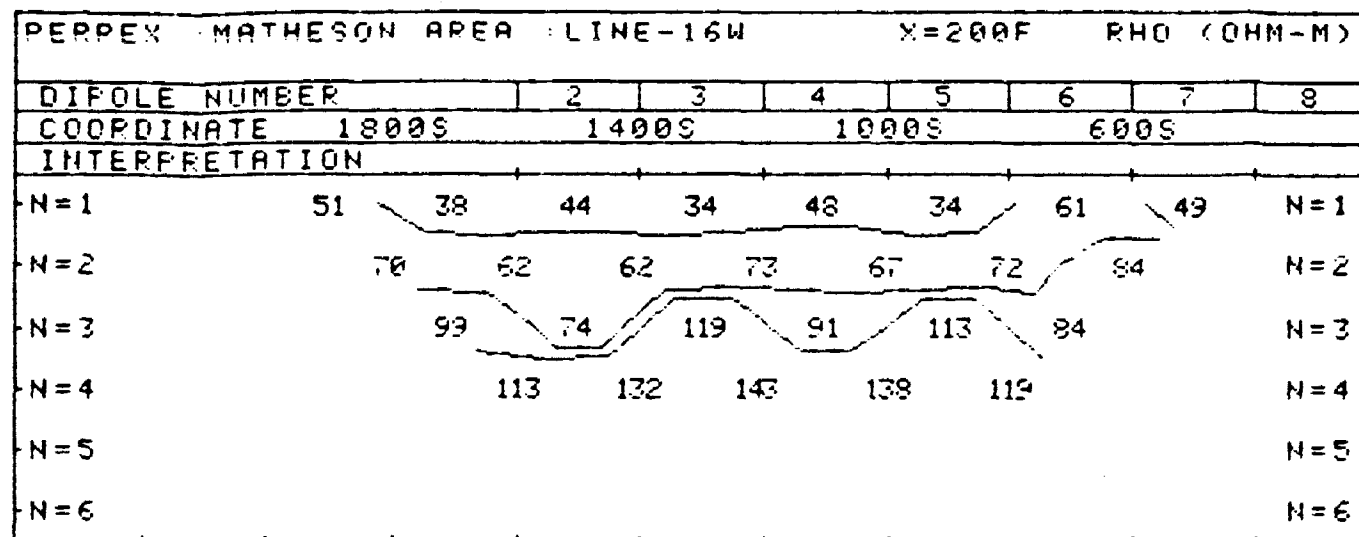
PHOENIX GEOPHYSICS LTD.  
INDUCED POLARIZATION AND RESISTIVITY SURVEY

GOLDEN HOPE - TECK EXPLORATIONS  
ESTRADES TWP. DISCOVERY  
QUEBEC



NOTE - CONTOURS  
AT LOGARITHMIC  
INTERVALS 1,-1.5  
-2,-3,-5,-7.5,-10

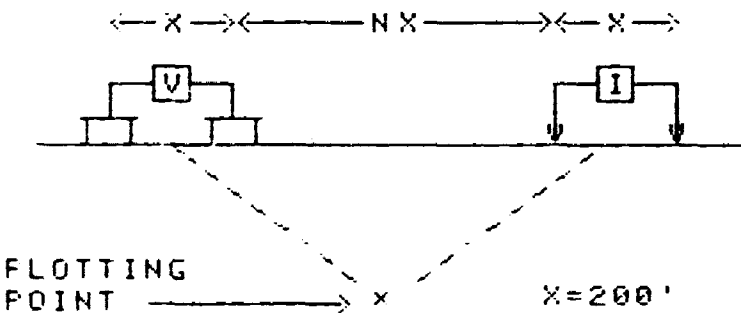
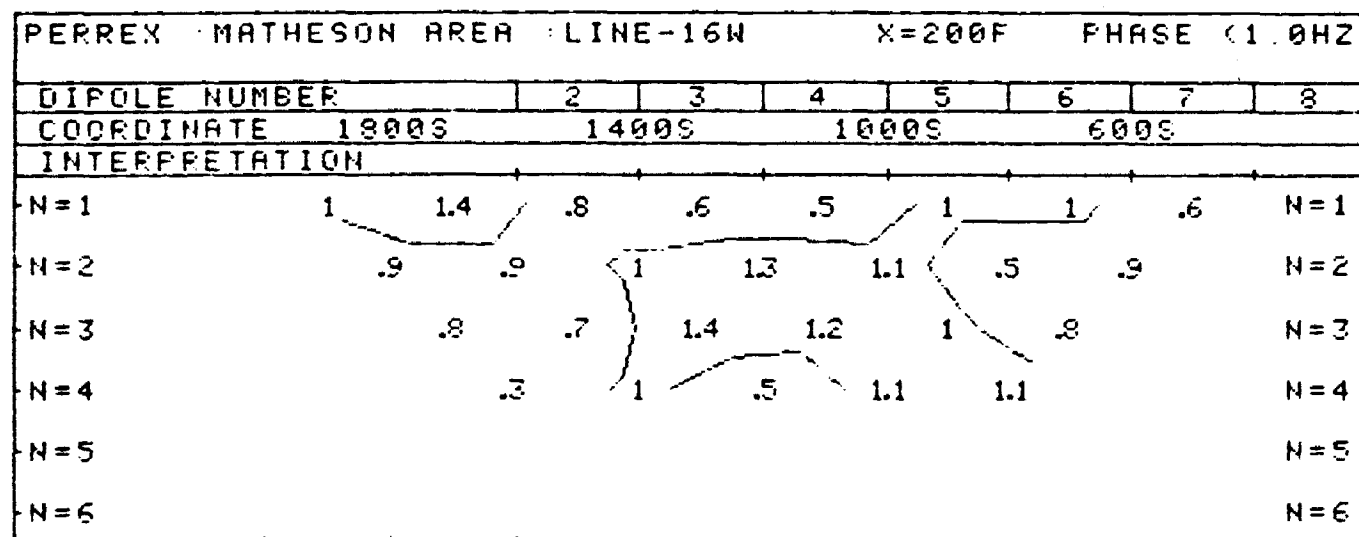
PHOENIX GEOPHYSICS LTD.  
INDUCED POLARIZATION AND RESISTIVITY SURVEY






# PERREX RESOURCES INC.

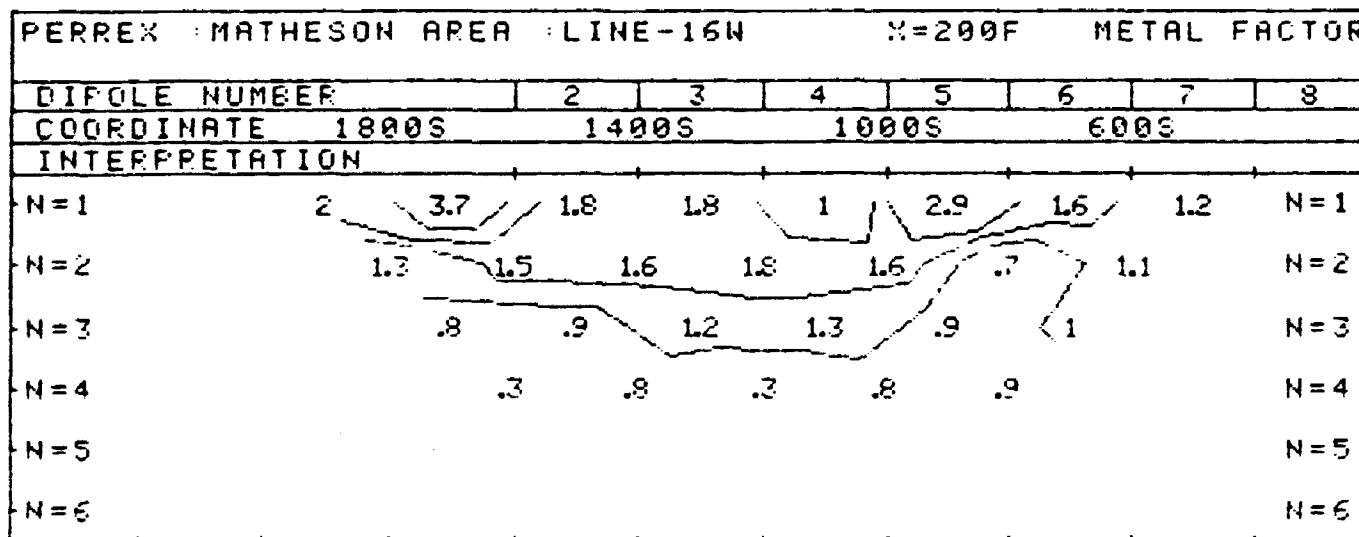
MATHESON / ONTARIO

LINE NO. -16W



SURFACE PROJECTION OF ANOMALOUS ZONE

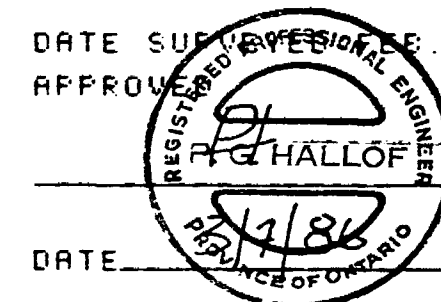
DEFINITE   
 PROBABLE   
 POSSIBLE 



FREQUENCY (HERTZ)  
1.0 HZ.

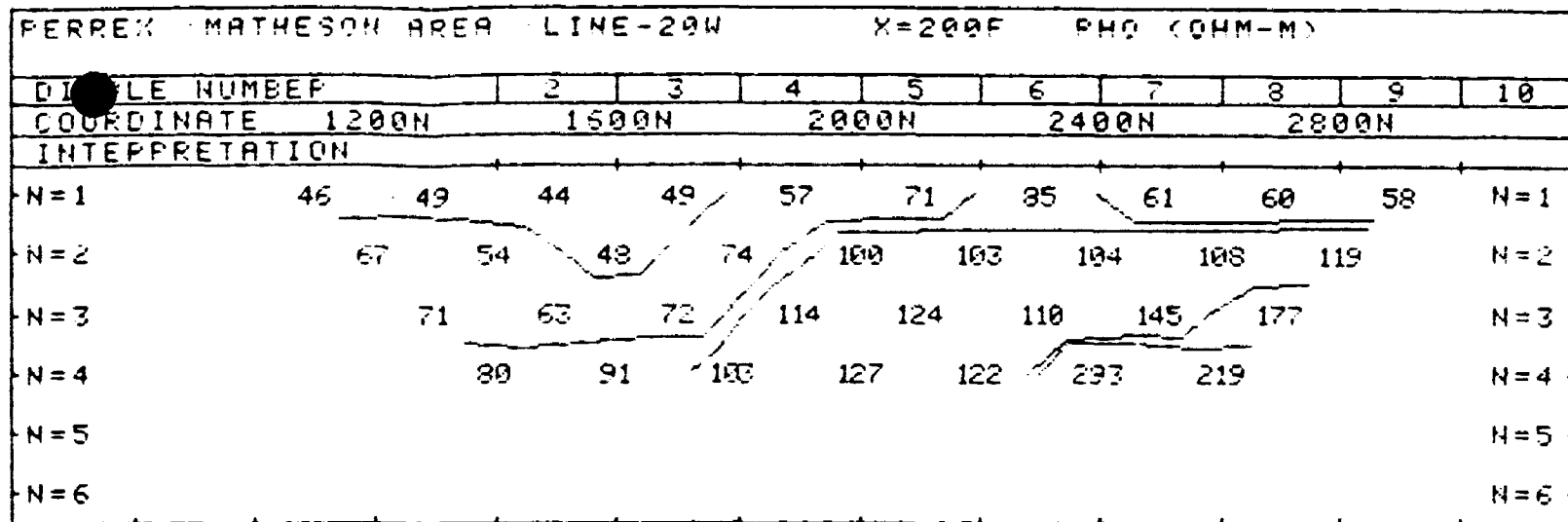
DATE SURVEYED: 1986  
APPROVED:

NOTE- CONTOURS  
AT LOGARITHMIC  
INTERVALS: 1, -1.5  
-2, -3, -5, -7.5, -10



## PHOENIX GEOPHYSICS LTD.

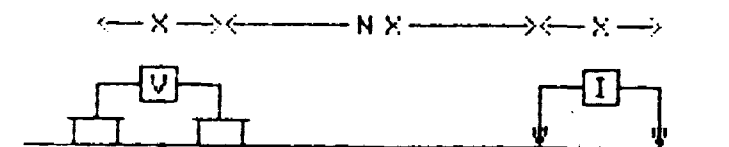
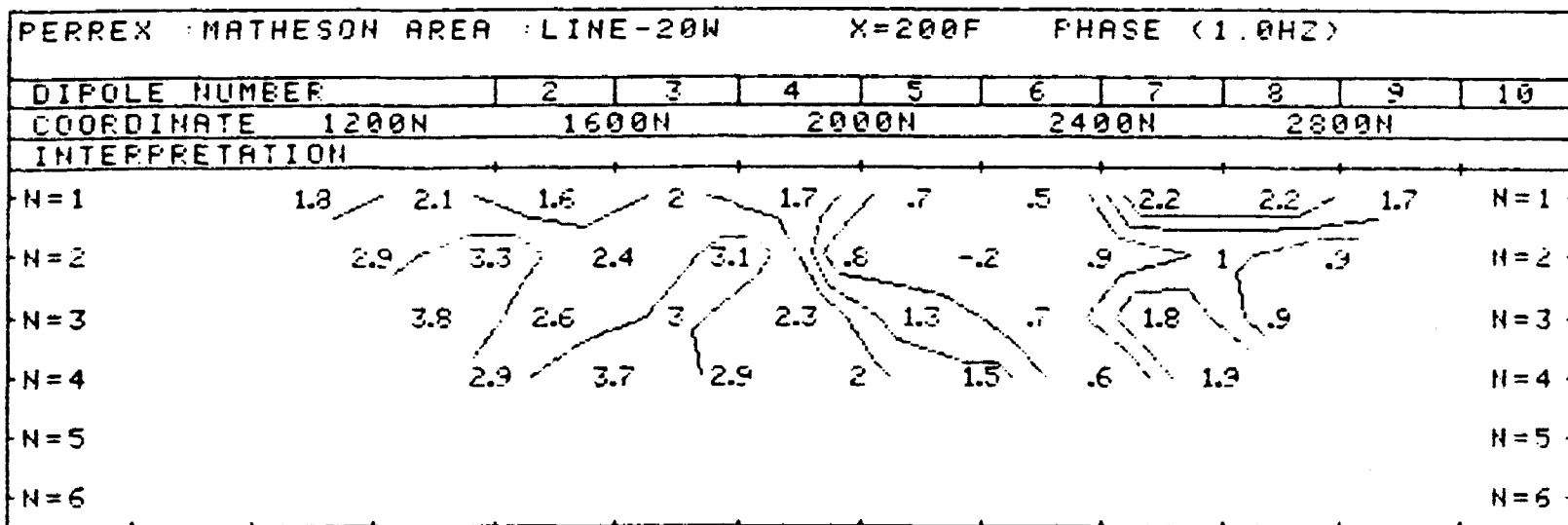
INDUCED POLARIZATION AND RESISTIVITY SURVEY



# PERREX RESOURCES INC.

MATHESON / ONTARIO

LINE NO. -20W



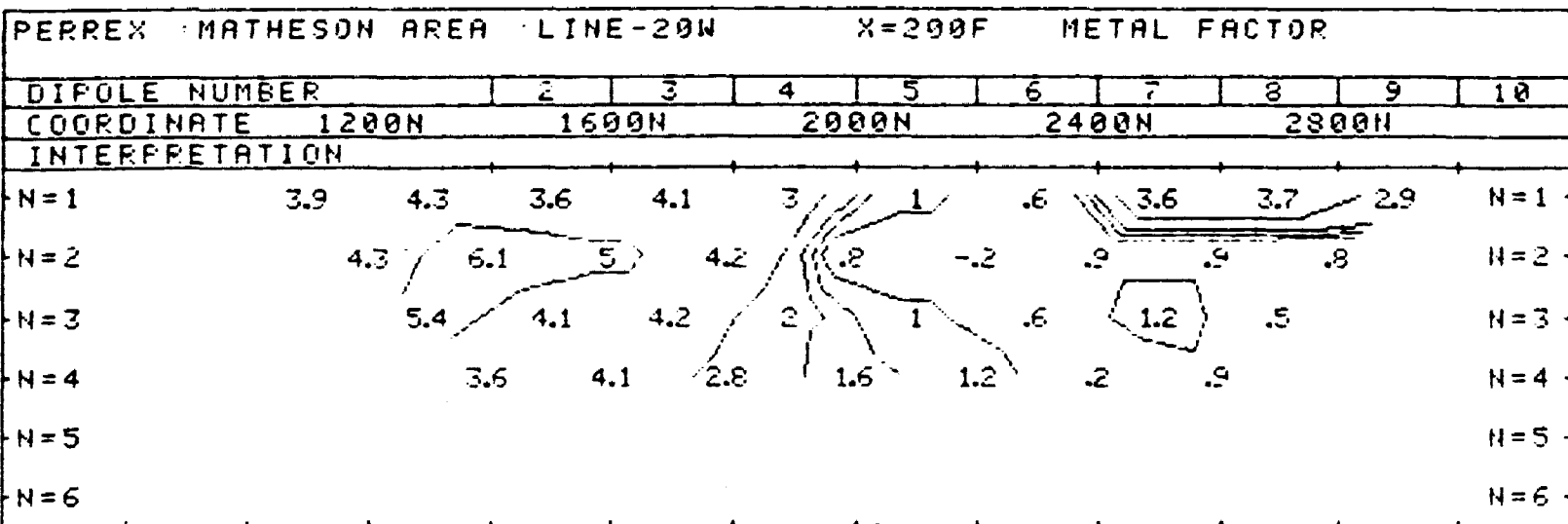
SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE

PROBABLE

POSSIBLE

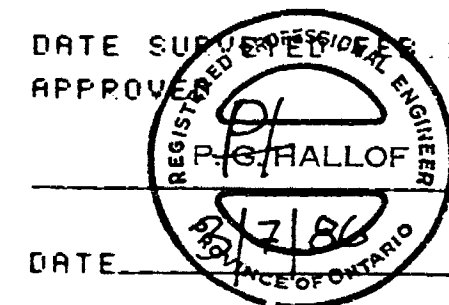
OMEP



FREQUENCY (HERTZ)  
1.0 HZ.

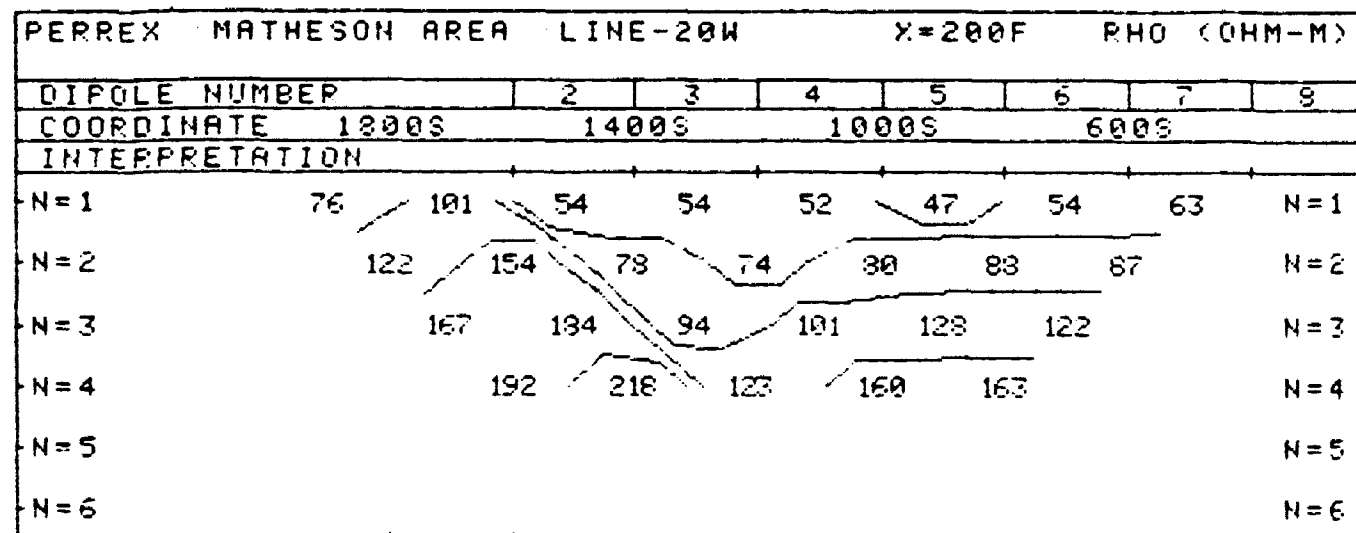
DATE SURVEYED 1986  
APPROVED

NOTE- CONTOURS  
AT LOGARITHMIC  
INTERVALS. 1, -1.5  
-2, -3, -5, -7.5, -10



## PHOENIX GEOPHYSICS LTD.

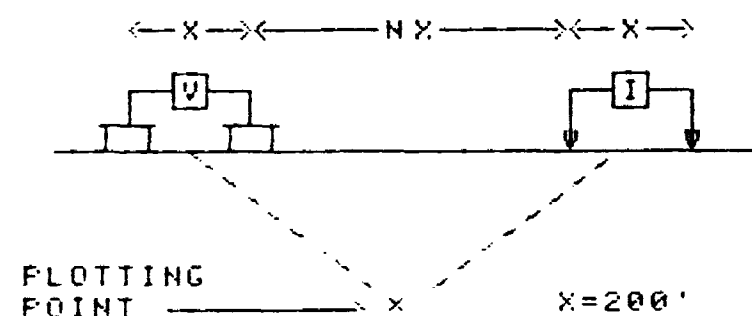
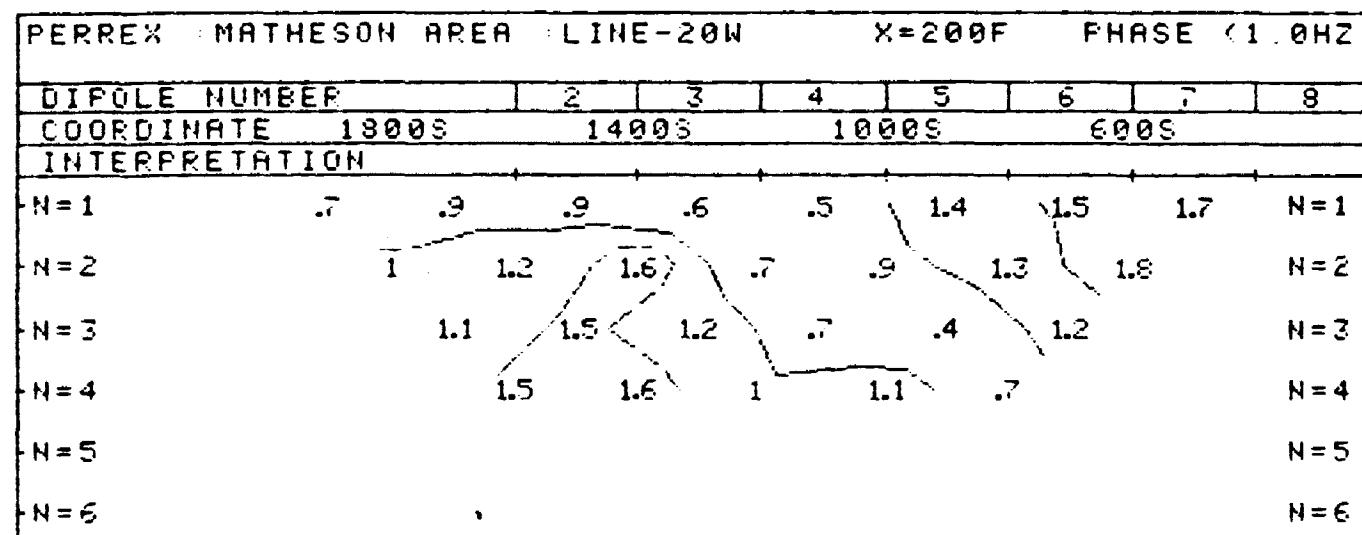
INDUCED POLARIZATION AND RESISTIVITY SURVEY






# PERREX RESOURCES INC.

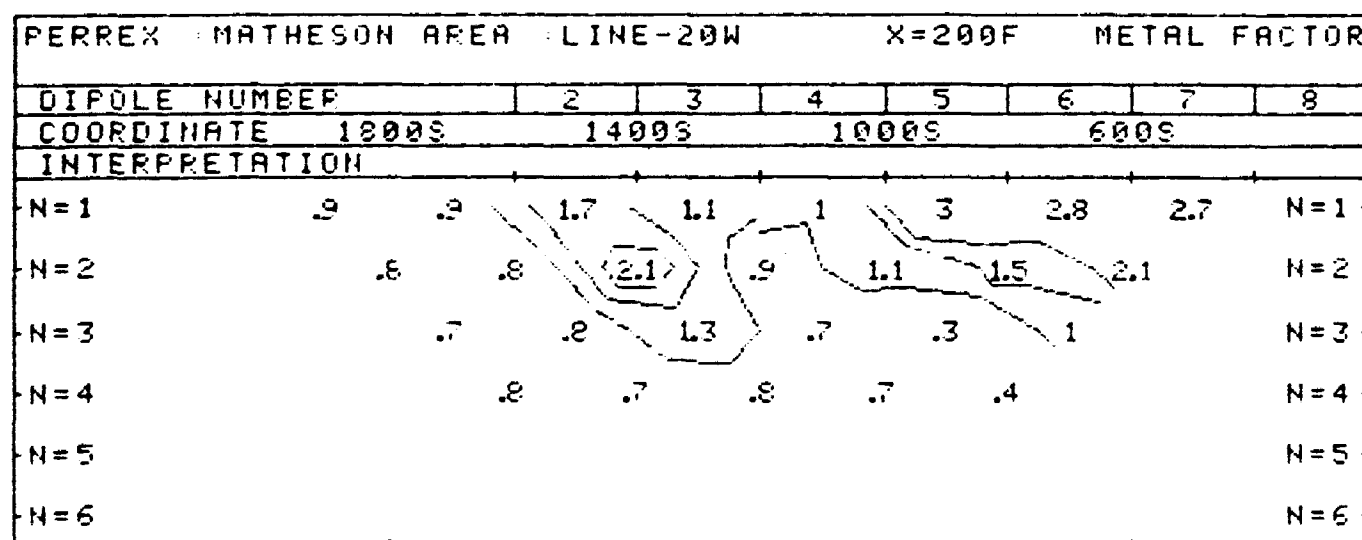
MATHESON / ONTARIO

LINE NO. -20W



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
 PROBABLE   
 POSSIBLE 

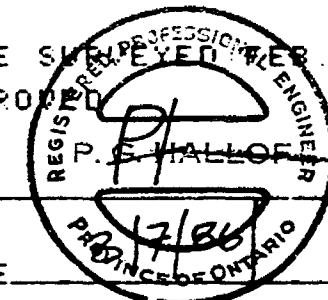


FREQUENCY (HERTZ)  
1.0 HZ.

DATE SHEET CHECKED BY: 1986  
APPROVED:

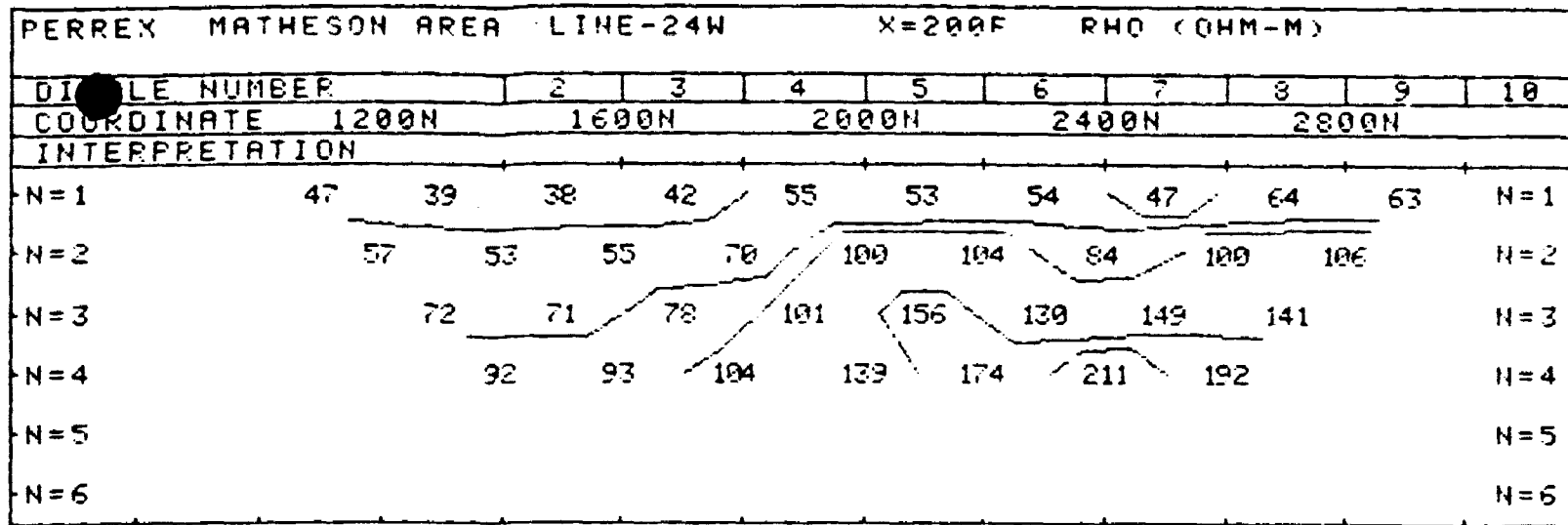
NOTE- CONTOURS  
AT LOGARITHMIC  
INTERVALS. 1, -1.5  
-2, -3, -5, -7.5, -10

DATE



## PHOENIX GEOPHYSICS LTD.

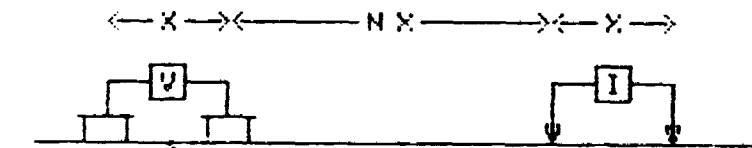
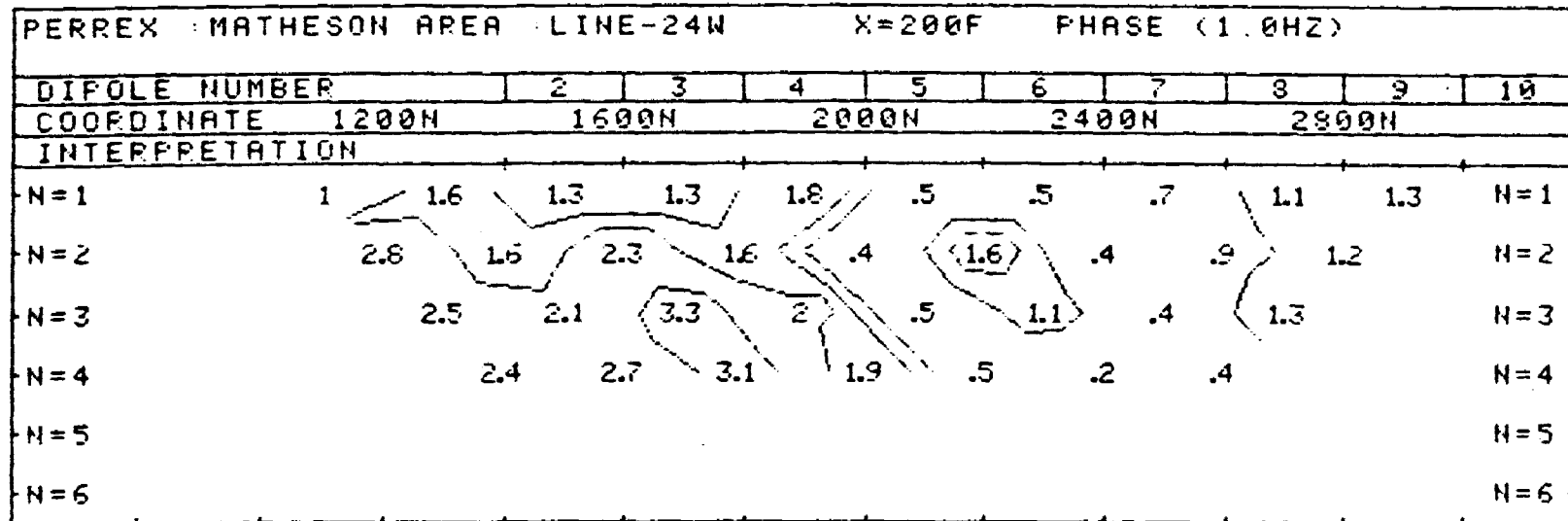
INDUCED POLARIZATION AND RESISTIVITY SURVEY



PERREX RESOURCES INC.

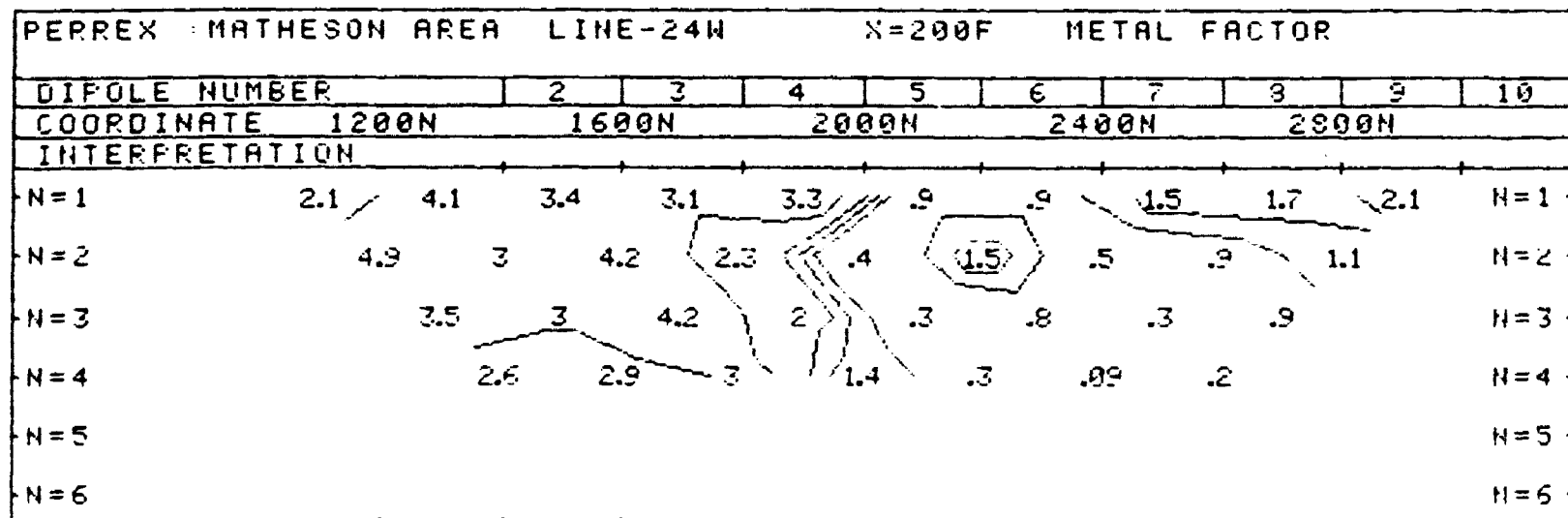
MATHESON / ONTARIO

LINE NO. -24W



SURFACE PROJECTION OF ANOMALOUS ZONE

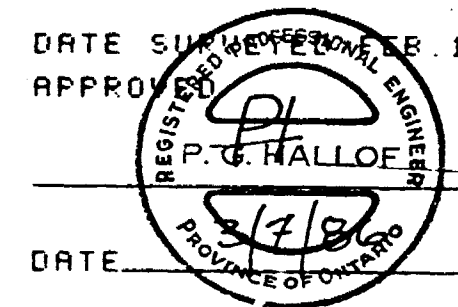
DEFINITE   
 PROBABLE   
 POSSIBLE



FREQUENCY (HERTZ)  
1.0 HZ.

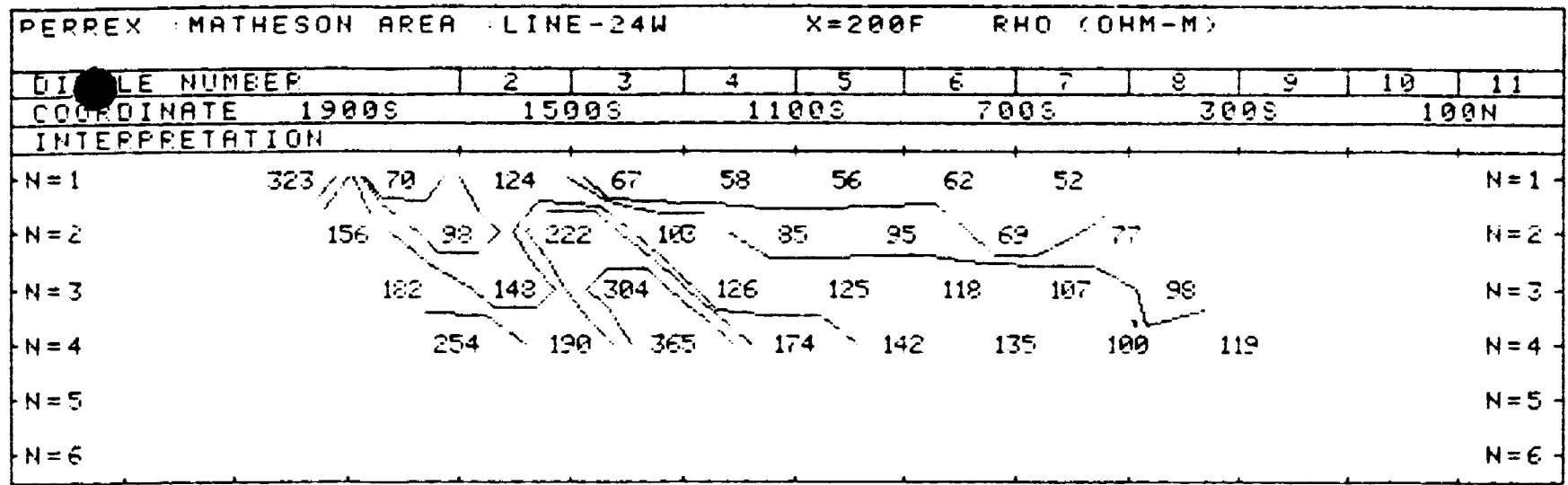
DATE SURVEYED FEB. 1986  
APPROVED

NOTE- CONTOURS  
AT LOGARITHMIC  
INTERVALS. 1, -1.5  
-2, -3, -5, -7.5, -10



PHOENIX GEOPHYSICS LTD.

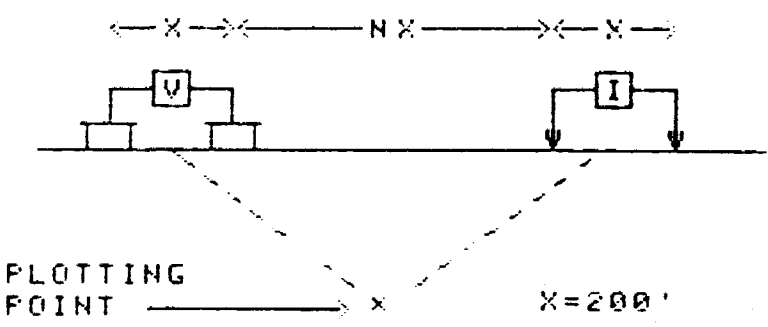
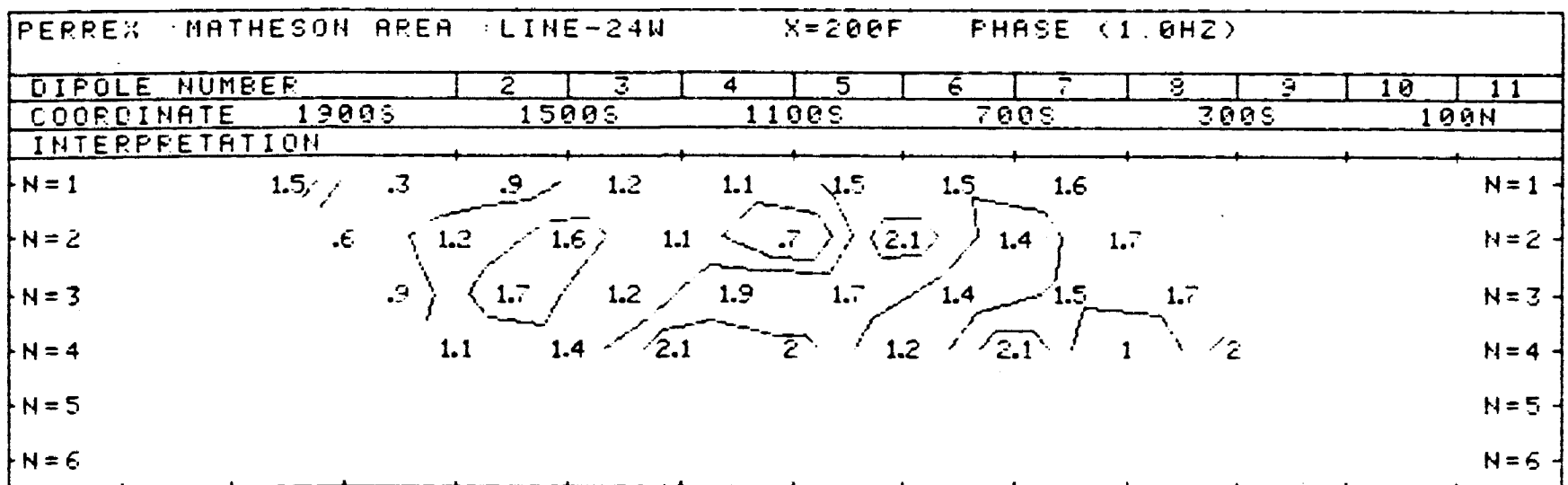
INDUCED POLARIZATION AND RESISTIVITY SURVEY



PERREX RESOURCES INC.

MATHESON / ONTARIO

LINE NO. -24W

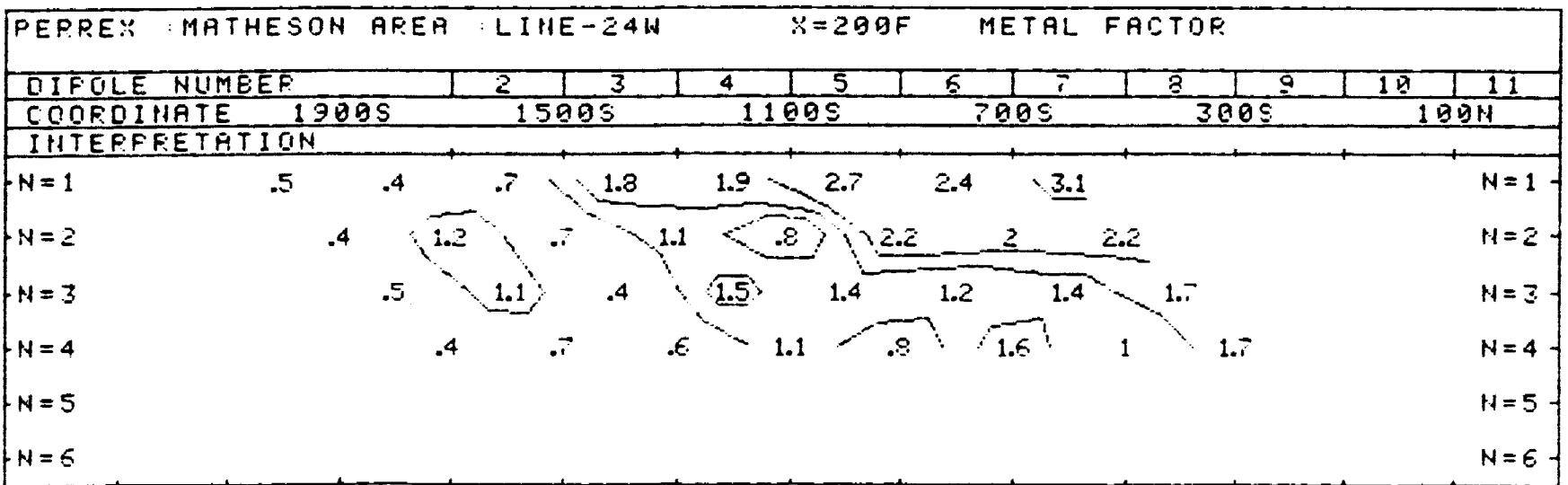


SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE

PROBABLE

POSSIBLE



FREQUENCY (HERTZ)  
1.0 HZ.

DATE SURVEYED FEB. 1986  
APPROVED

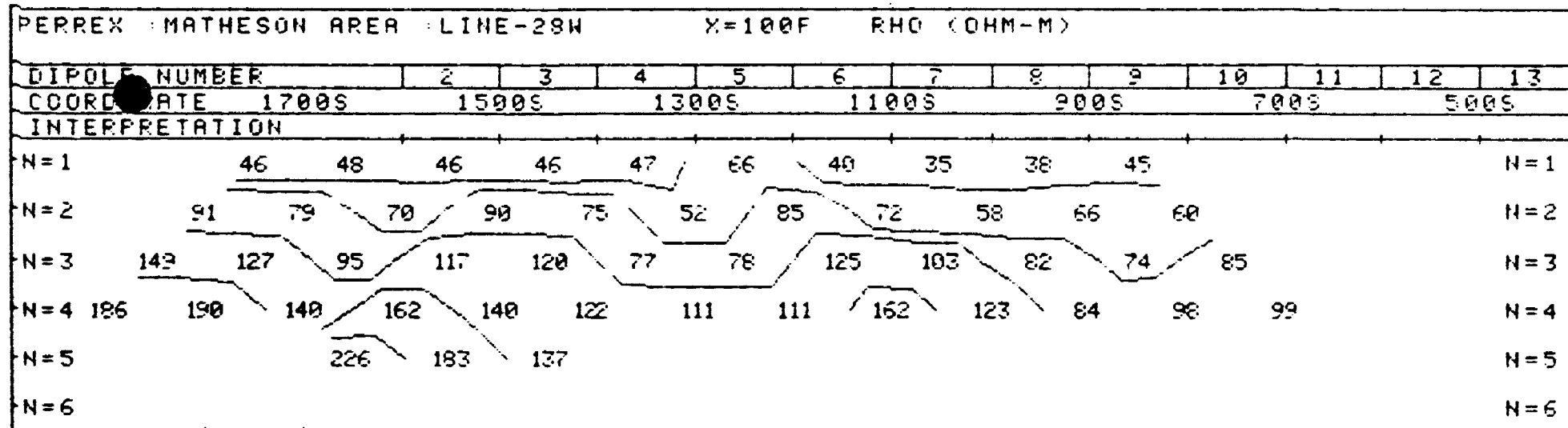
NOTE- CONTOURS  
AT LOGARITHMIC  
INTERVALS. 1, -1.5  
-2, -3, -5, -7.5, -10

REGISTERED PROFESSIONAL ENGINEER  
R.P. HALLOF  
PROVINCE OF ONTARIO  
DATE 3/7/86



PHOENIX GEOPHYSICS LTD.

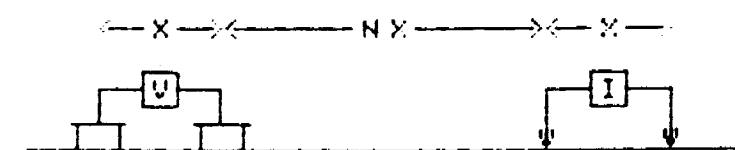
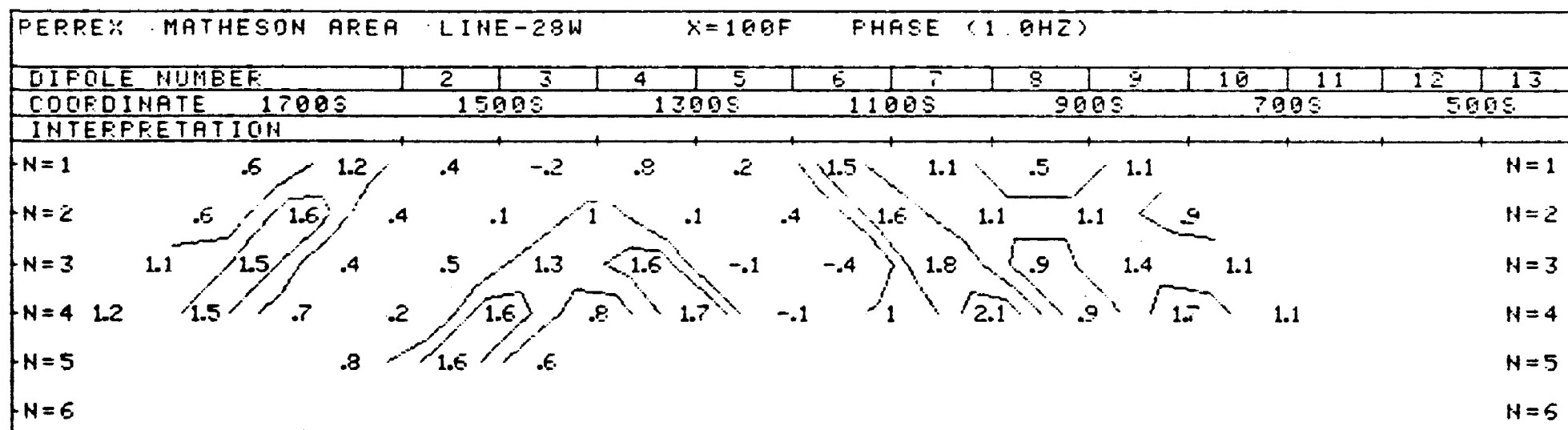
INDUCED POLARIZATION AND RESISTIVITY SURVEY



PERREX RESOURCES INC.

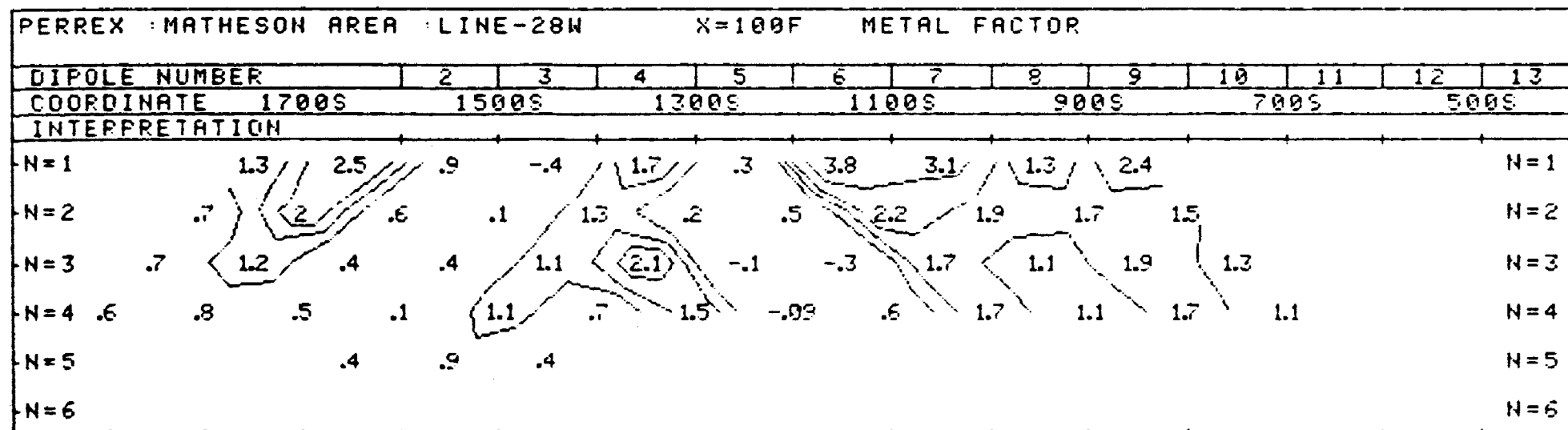
MATHESON / ONTARIO

LINE NO -28W



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE PROBABLY DEFINITE  
 PROBABLE PROBABLY PROBABLE  
 POSSIBLE PROBABLY POSSIBLE

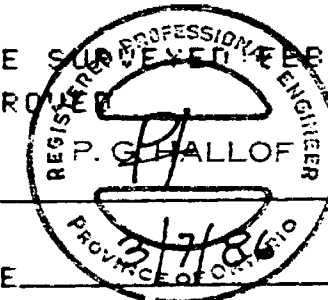


FREQUENCY (HERTZ)  
1.0 HZ.

DATE SURVEYED: FEB. 1986  
 APPROVED: \_\_\_\_\_

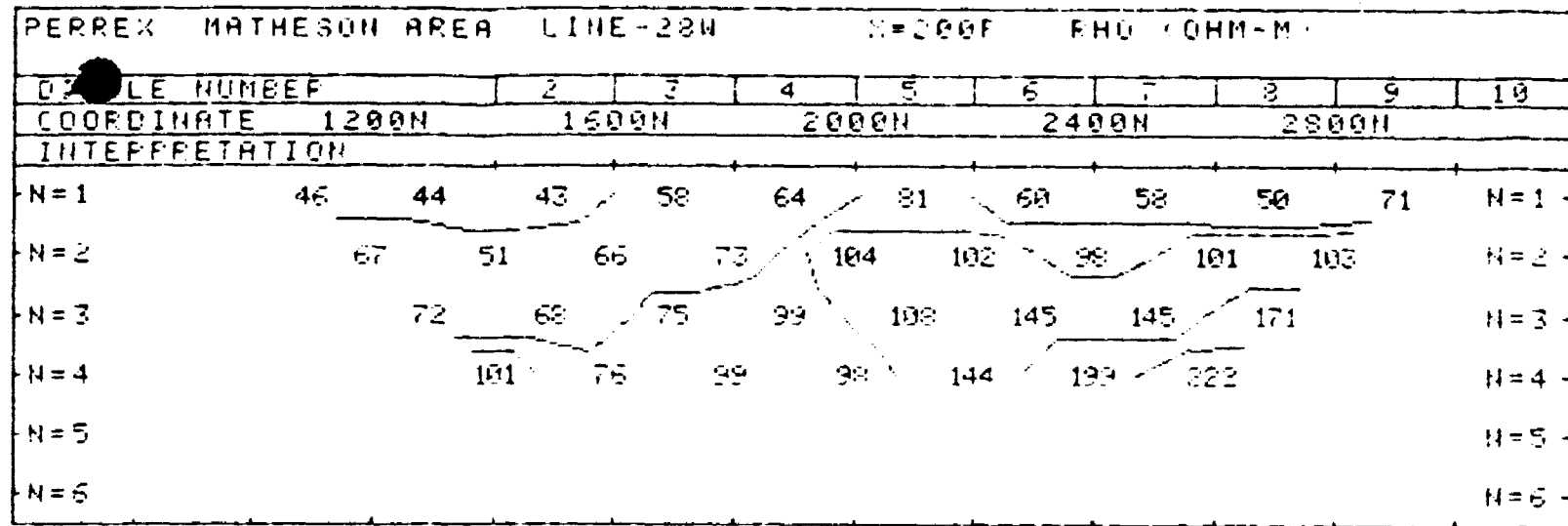
NOTE- CONTOURS  
 AT LOGARITHMIC  
 INTERVALS: 1, -1.5  
 -2, -3, -5, -7.5, -10

DATE: \_\_\_\_\_



PHOENIX GEOPHYSICS LTD.

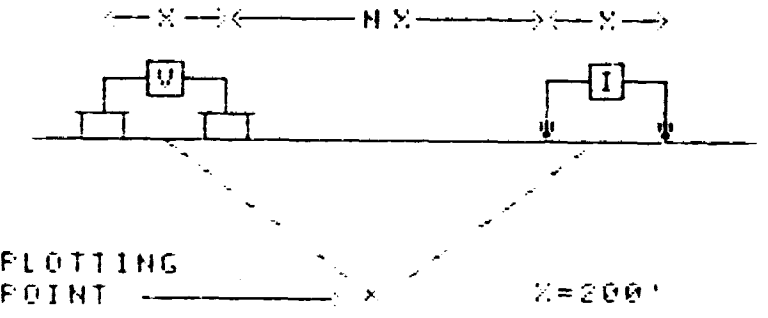
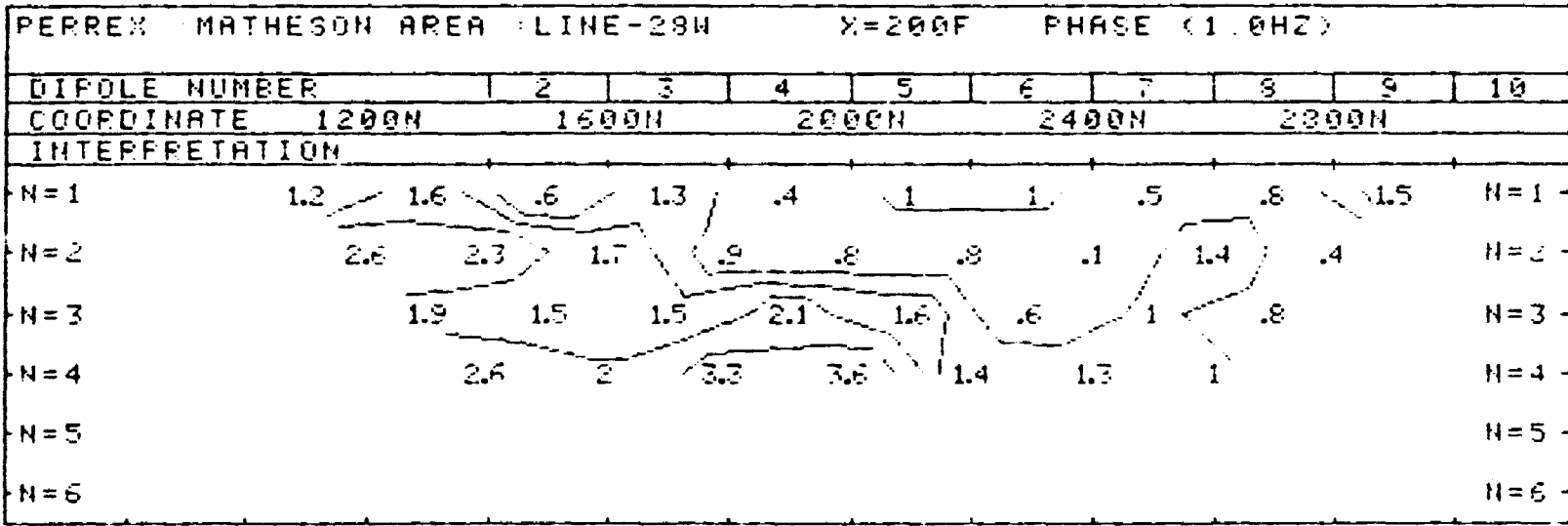
INDUCED POLARIZATION AND RESISTIVITY SURVEY



# PERREX RESOURCES INC.

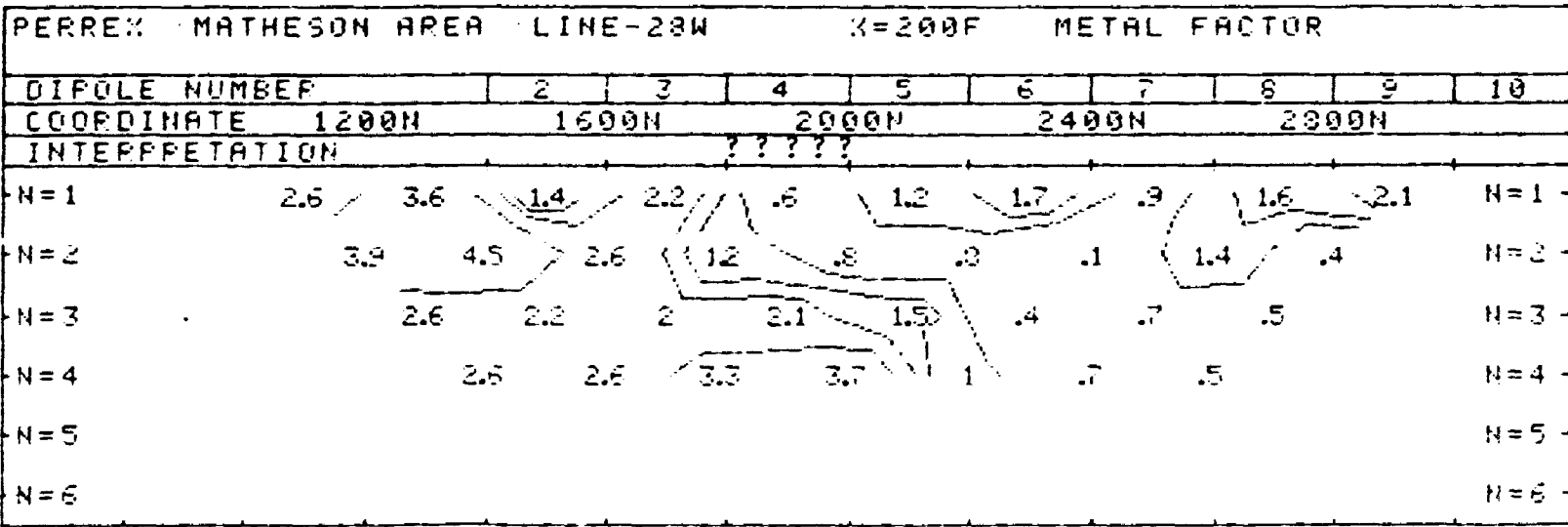
MATHESON ONTARIO

LINE NO -28W



SURFACE PROJECTION OF ANOMALOUS ZONE

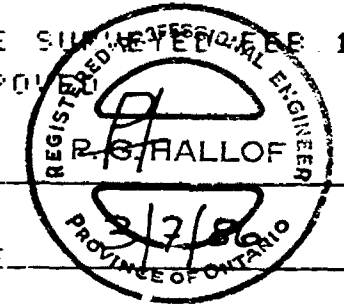
DEFINITE   
 PROBABLE   
 POSSIBLE



FREQUENCY (HERTZ)  
1.0 HZ.

DATE SURVEYED FEB. 1986  
APPROVED

NOTE- CONTOURS  
AT LOGARITHMIC  
INTERVALS. 1, -1.5  
-2, -3, -5, -7, 5, -10



# PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION AND RESISTIVITY SURVEY



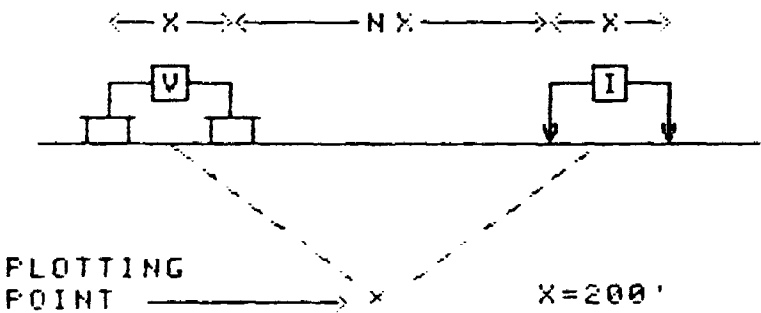
PERREX MATHESON AREA LINE-28W X=200F PHO (OHM-M)									
DIPOLE NUMBER	2	3	4	5	6	7	8		
COORDINATE	1300S	1400S	1000S	600S					
INTERPRETATION									
N=1	116	99	114	66	99	74	74	55	N=1
N=2	203	194	141	134	149	105	104	N=2	
N=3	316	215	240	163	190	121	N=3		
N=4	306	301	262	183	191	N=4			
N=5									N=5
N=6									N=6

# PERREX RESOURCES INC.




MATHESON ONTARIO

LINE NO. -28W

PERREX MATHESON AREA LINE-28W X=200F PHASE (1.0HZ)									
DIPOLE NUMBER	2	3	4	5	6	7	8		
COORDINATE	1300S	1400S	1000S	600S					
INTERPRETATION									
N=1	.4	.1	.6	.4	1.1	1.1	1.3	.6	N=1
N=2	.4	1.1	1.1	.6	1.1	1.1	1.6	N=2	
N=3	.7	.9	.7	1.4	.9	1.4	N=3		
N=4	1.3	1.5	.6	1	1.4	N=4			
N=5									N=5
N=6									N=6



SURFACE PROJECTION OF ANOMALOUS ZONE

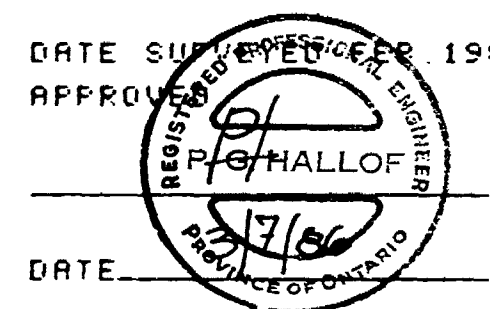
DEFINITE   
 PROBABLE   
 POSSIBLE 

PERREX MATHESON AREA LINE-28W X=200F METAL FACTOR									
DIPOLE NUMBER	2	3	4	5	6	7	8		
COORDINATE	1300S	1400S	1000S	600S					
INTERPRETATION									
N=1	.3	.1	.5	.6	1.1	1.5	1.8	1.1	N=1
N=2	.2	.6	.3	.4	.7	1	1.5	N=2	
N=3	.2	.4	.3	.9	.5	1.2	N=3		
N=4	.4	.5	.2	.5	.7	N=4			
N=5									N=5
N=6									N=6

FREQUENCY (HERTZ)  
1.0 HZ.

DATE SURVEYED FEB. 1986  
APPROVED

NOTE - CONTOURS  
AT LOGARITHMIC  
INTERVALS: 1, -1.5  
-2, -3, -5, -7.5, -10



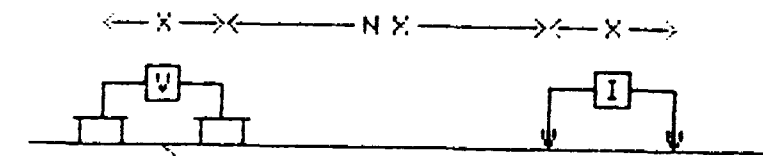
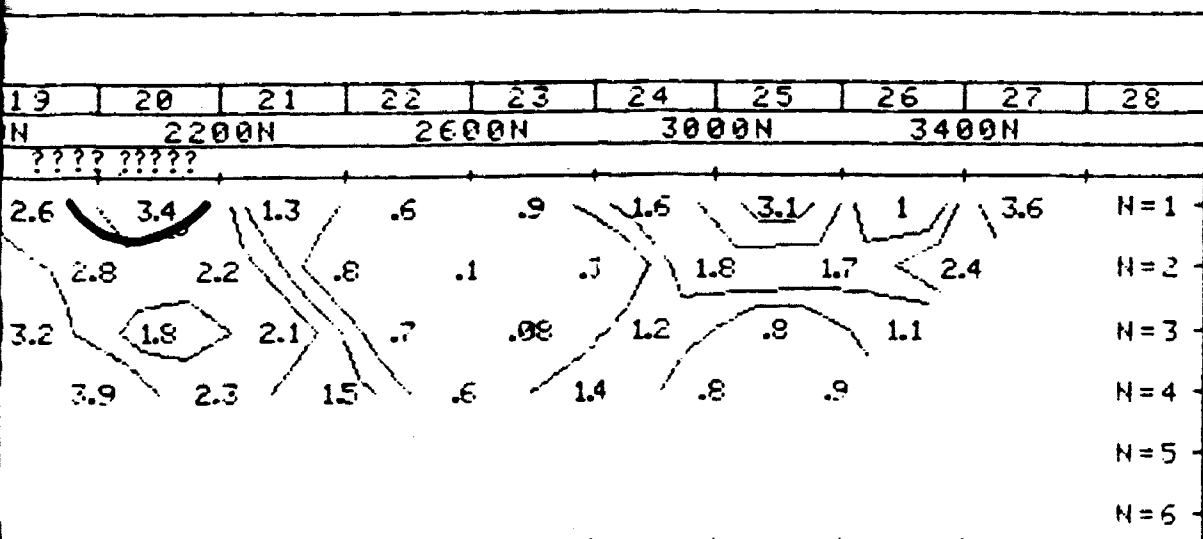
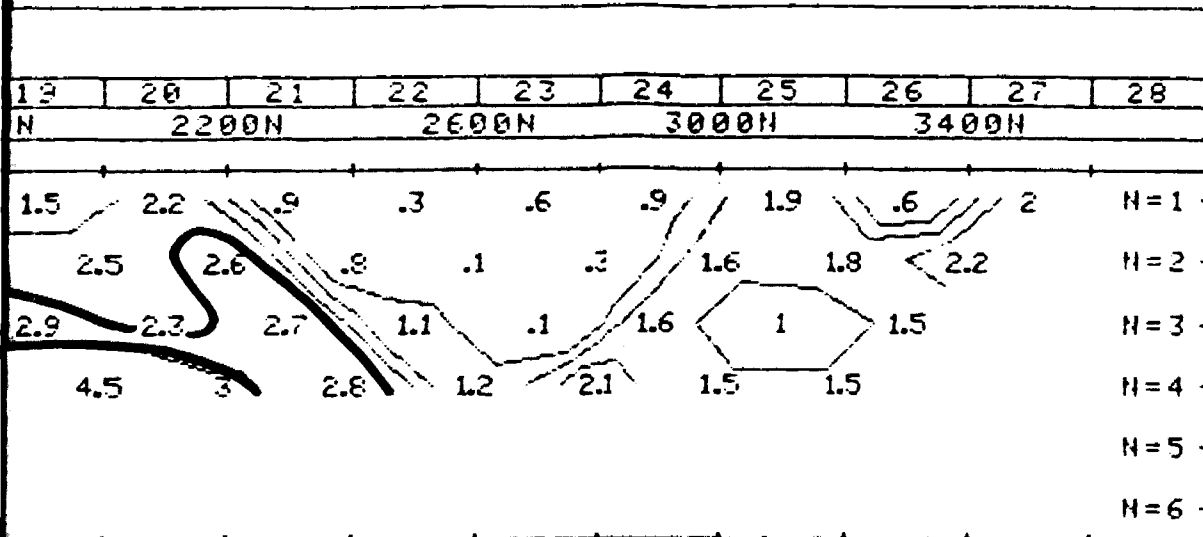
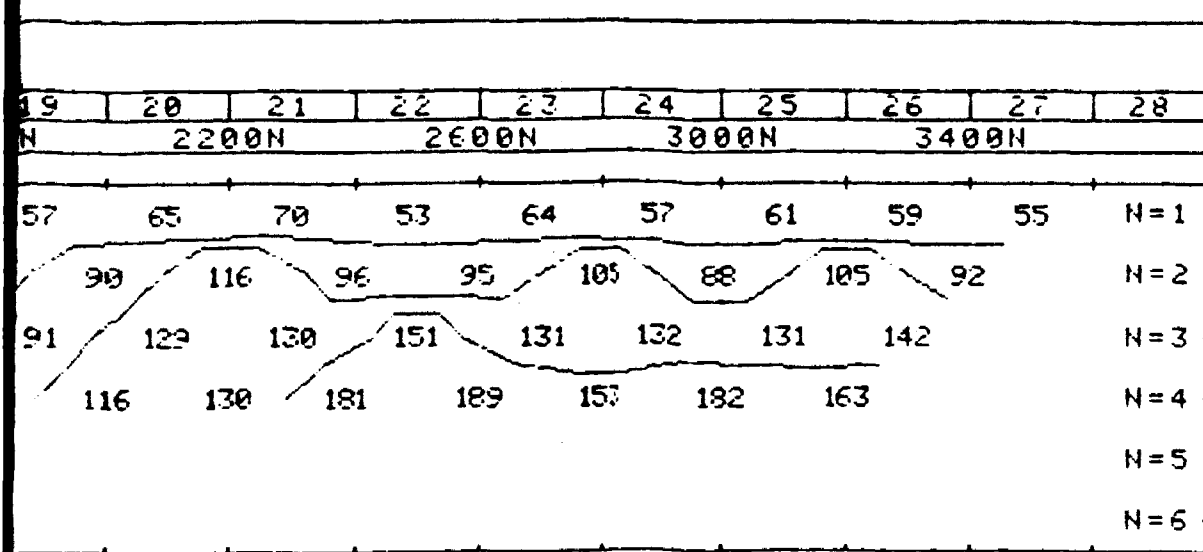
## PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION AND RESISTIVITY SURVEY

# PERREX RESOURCES INC.

MATHESON / ONTARIO

LINE NO. -32W



PLOTTING POINT

x = 200'

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE

PROBABLE

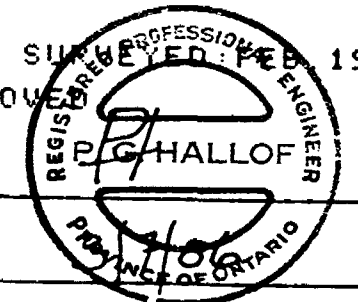
POSSIBLE

FREQUENCY (HERTZ)  
1.0 HZ.

DATE SURVEYED: FEB. 1986  
APPROVED: \_\_\_\_\_

NOTE- CONTOURS  
AT LOGARITHMIC  
INTERVALS: 1, -1.5  
-2, -3, -5, -7.5, -10

DATE \_\_\_\_\_



PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION AND RESISTIVITY SURVEY

DEC 22 1988



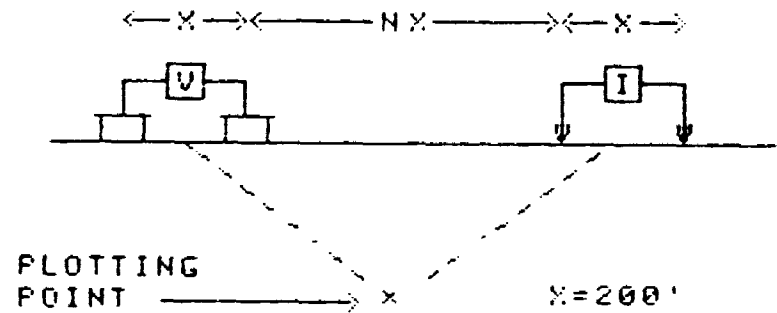
PERREX MATHESON AREA LINE-36W X=200F RHO (OHM-M)											
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10		
COORDINATE	1200N	1600N	2000N		2400N		2800N				
INTERPRETATION											
N=1	42	40	34	41	53	53	56	63	63	62	N=1
N=2	51	52	46	69	81	68	80	114	110		N=2
N=3	65	76	74	80	85	84	118	164			N=3
N=4		96	124	81	79	97	113	153			N=4
N=5											N=5
N=6											N=6

PERREX RESOURCES INC.

MATHESON ONTARIO

LINE NO. -36W

PERREX MATHESON AREA LINE-36W X=200F PHASE (1.0HZ)											
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10		
COORDINATE	1200N	1600N	2000N		2400N		2800N				
INTERPRETATION											
N=1	1.7	1.3	1.4	1	.8	4.2	3.7	.1	.1	.1	N=1
N=2	2.2	3.3	1	1.4	4.5	6	4.8	.1	.1		N=2
N=3	3.2	1.7	1.6	5.1	7.2	7.1	4.5	.1			N=3
N=4	1.5	1.4	5.3	7	7.7	6.6	4.7				N=4
N=5											N=5
N=6											N=6



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE

PROBABLE

POSSIBLE

QMER

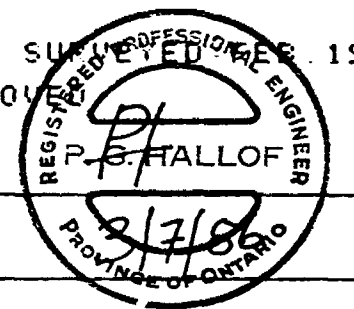
PERREX MATHESON AREA LINE-36W X=200F METAL FACTOR											
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10		
COORDINATE	1200N	1600N	2000N		2400N		2800N				
INTERPRETATION											
N=1	4	3.3	4.1	2.4	1.5	7.9	6.6	.2	.2	.2	N=1
N=2	4.3	6.3	2.2	2	6	8.8	6	.09	.09		N=2
N=3	4.9	2.2	2.2	6.4	8.5	9.5	3.8	.06			N=3
N=4	1.6	1.1	6.5	8.9	7.9	5.8	3.1				N=4
N=5											N=5
N=6											N=6

FREQUENCY (HERTZ)  
1.0 HZ.

DATE SURVEYED: 1986  
APPROVED:

NOTE- CONTOURS  
AT LOGARITHMIC  
INTERVALS: 1, -1.5  
-2, -3, -5, -7.5, -10

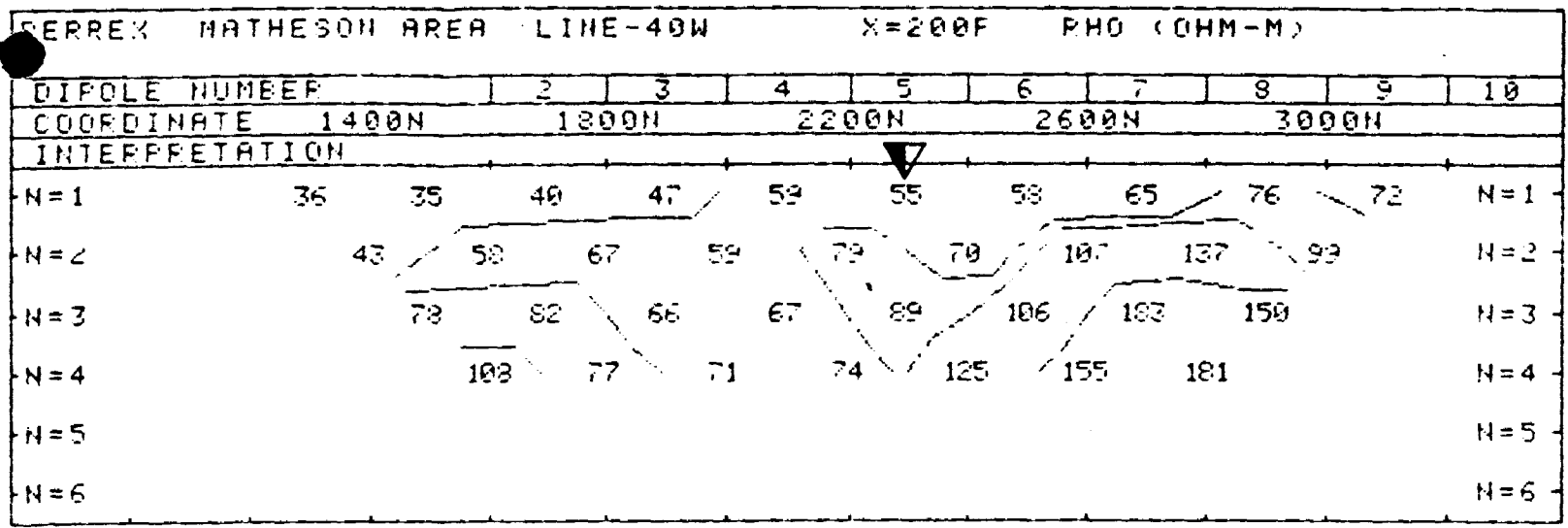
DATE: 2/7/86



RECEIVED

PHOENIX GEOPHYSICS LTD.

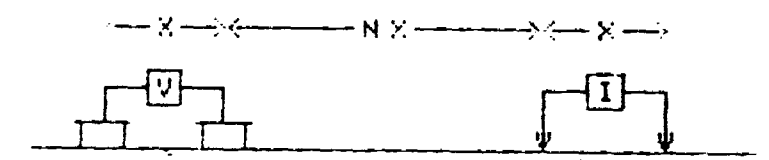
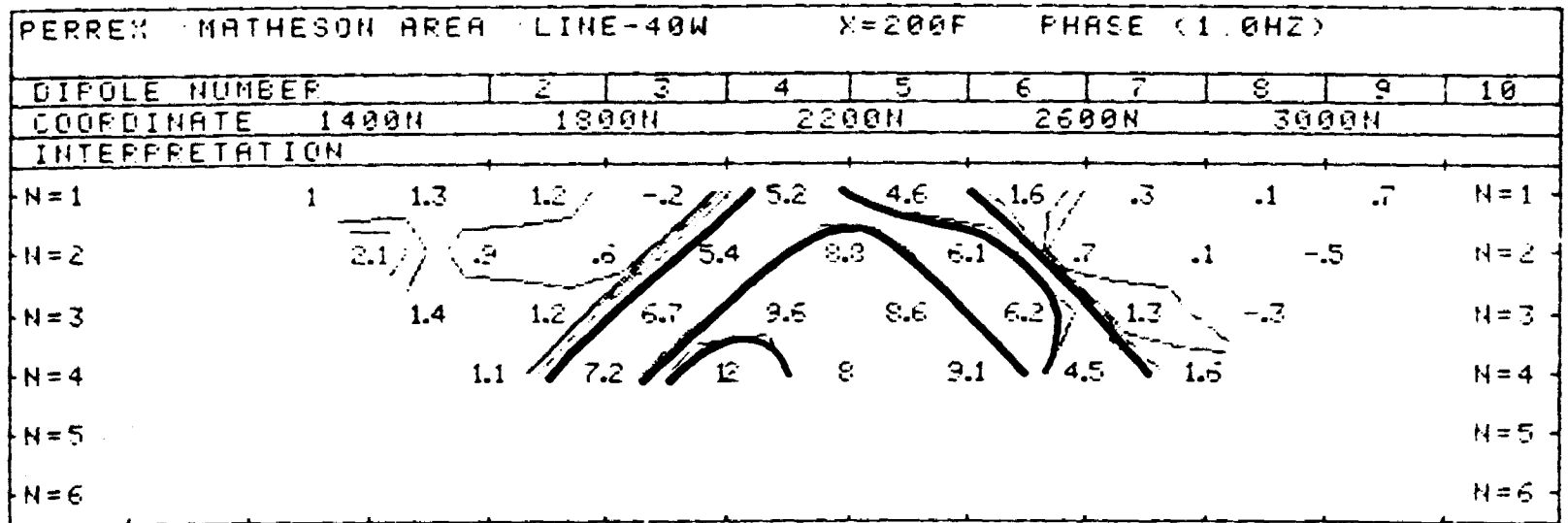
INDUCED POLARIZATION AND RESISTIVITY SURVEY



PERREX RESOURCES INC.

MATHESON ONTARIO

LINE NO -40W



FLOTING POINT X=200'

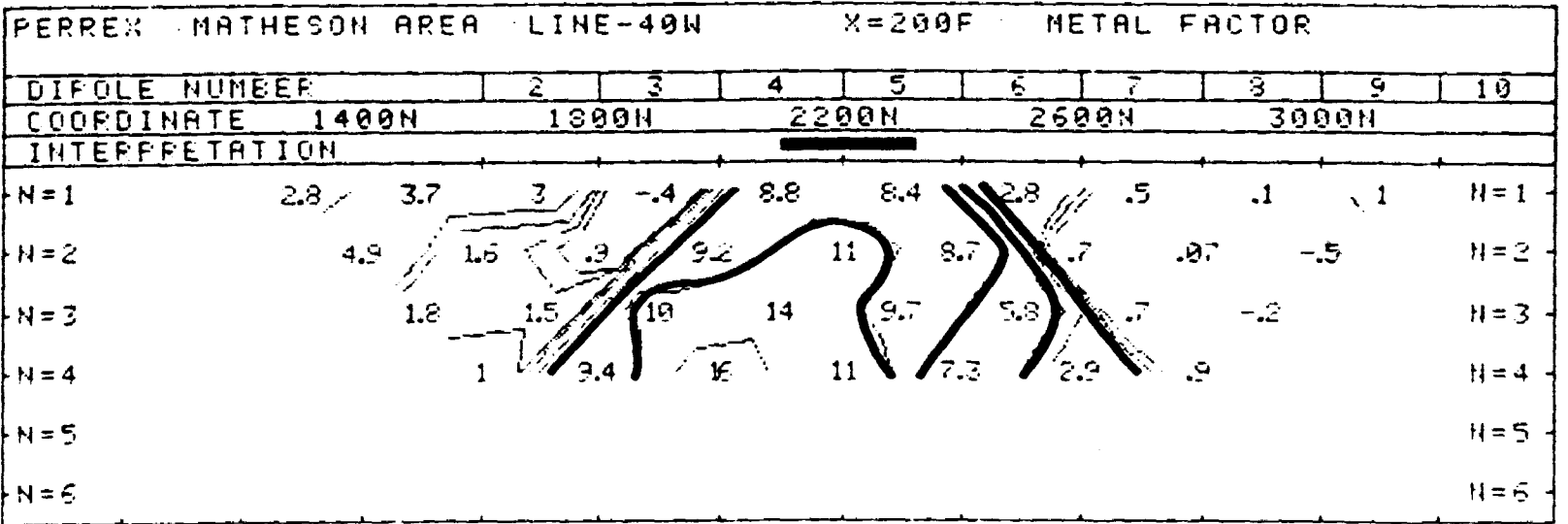
SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE

PROBABLE

POSSIBLE

OMER  
DEC 22 1988



FREQUENCY (HERTZ)  
1.0 HZ.

DATE SURVEYED FEB 1986  
APPROVED

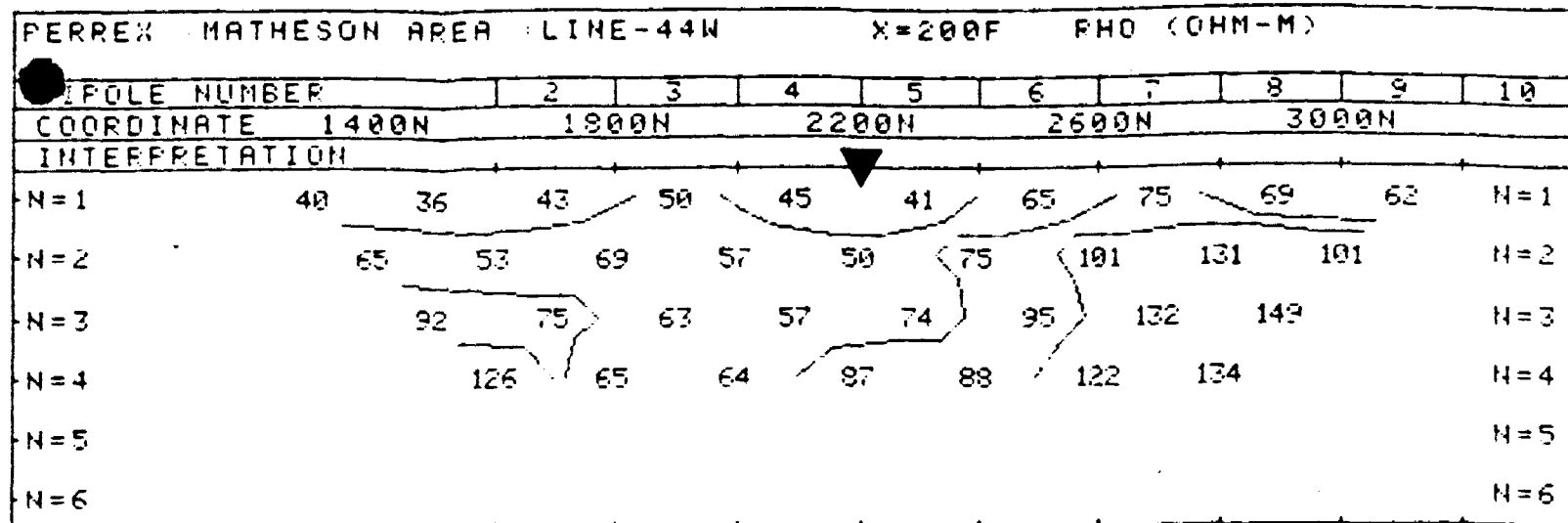
NOTE- CONTOURS  
AT LOGARITHMIC  
INTERVALS: 1, -1.5  
-2, -3, -5, -7.5, -10

REGISTERED PROFESSIONAL ENGINEER  
P. G. HALLOF  
3/7/86  
PROVINCE OF ONTARIO



PHOENIX GEOPHYSICS LTD.

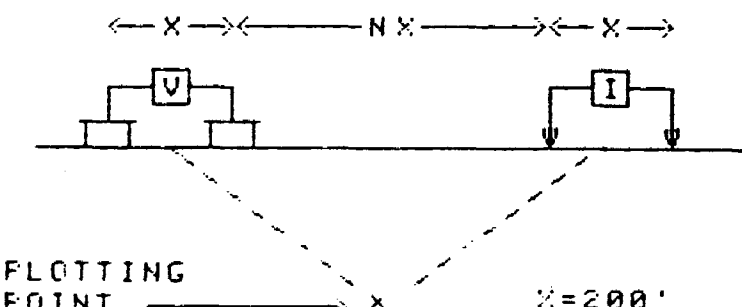
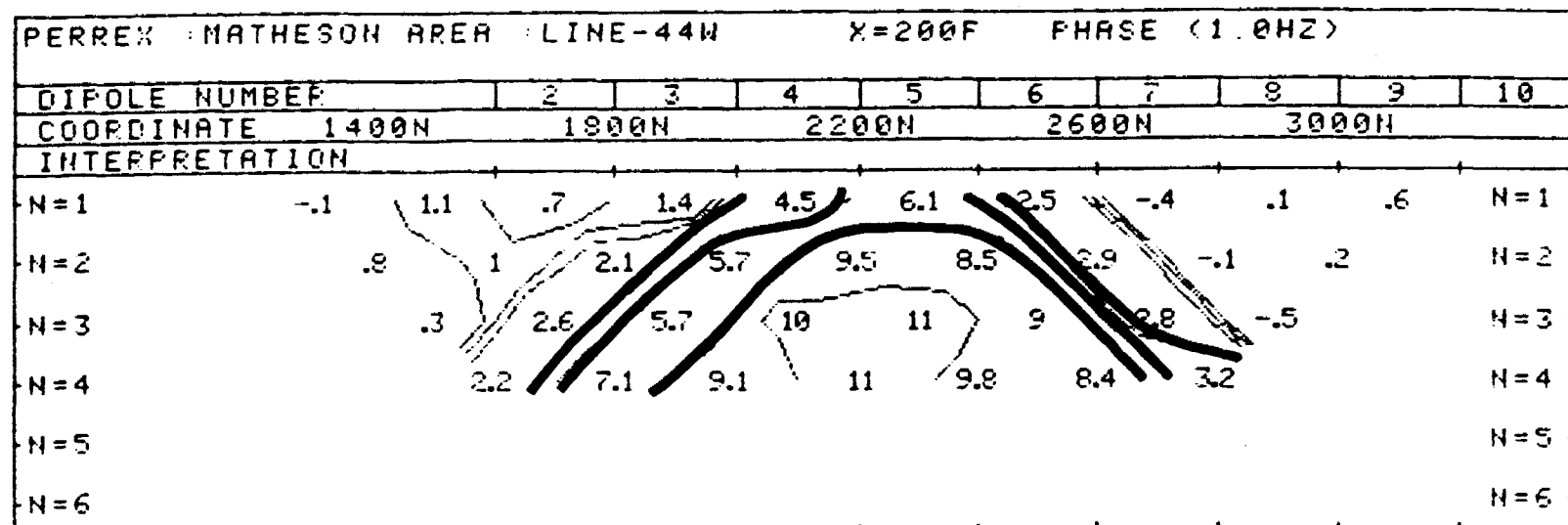
INDUCED POLARIZATION AND RESISTIVITY SURVEY






PERREX RESOURCES INC.

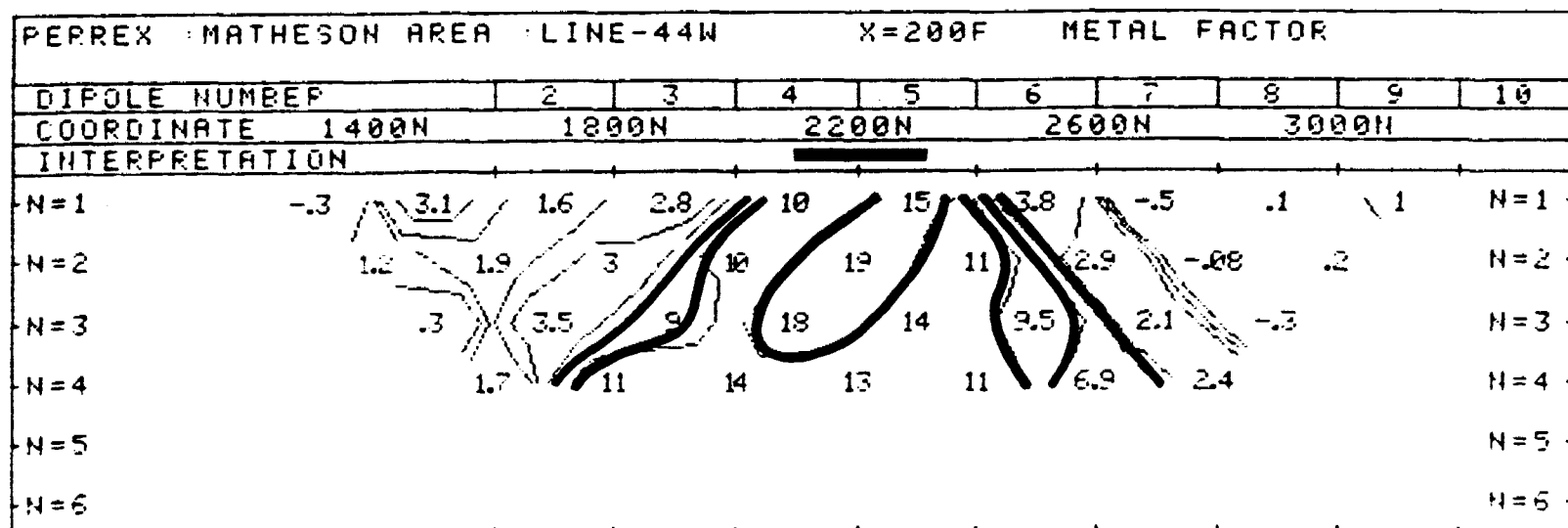
MATHESON / ONTARIO

LINE NO. -44W



SURFACE PROJECTION OF ANOMALOUS ZONE

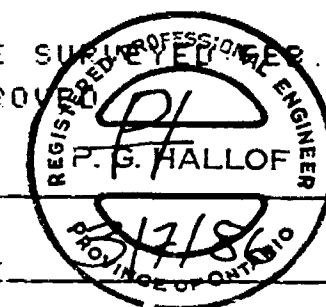
DEFINITE   
 PROBABLE   
 POSSIBLE 



FREQUENCY (HERTZ)  
1.0 HZ

DATE SURVEYED FEB. 1986  
APPROVED

NOTE- CONTOURS  
AT LOGARITHMIC  
INTERVALS. 1, -1.5  
-2, -3, -5, -7.5, -10



DATE



PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION AND RESISTIVITY SURVEY

D.D.H. GEOMANAGEMENT LTD.

050



32D05NW0396 63.4954 HARKER

February 9, 1987

050

FEB 12 1987

OMEP OFFICE

Mr. Phil Hum,  
D.M.E.P.  
Ministry of Northern Development and Mines,  
Room 4650, Whitney Block,  
Queen's Park,  
Toronto, Ontario  
M7A 1W3

Dear Mr. Hum,

RE: Perrex Resources Inc.  
103 Group  
Harker-Elliott & Thackeray Townships,  
Larder Lake Mining Division,  
District of Cochrane, Ontario

Further to our telephone conversation re the subject property on February 9, 1987, I understand that you have on file the diamond drill logs by Mr. David Constable as well as the cost report on the program.

This letter report is designed to cover the geological aspects of the program as Mr. Constable is away at this time and to fill in the missing data that you requested.

LOCATION AND ACCESS

The Perrex Resources Inc. 103 Group is located principally in Harker Township with extensions into the adjoining townships of Elliott to the south and Thackeray to the southwest in northeastern Ontario, some 30 kms north of Kirkland Lake and 30 kms west of the Ontario - Quebec border (see Figure 1 after Hinse, 1984).

Road access is from Highway 101 than southerly on former logging roads.

The property is entirely covered by swamp and overburden.

PROPERTY AND TITLE

The property contains 103 unpatented mineral claims controlled by Perrex Resources Inc. The claim numbers and record dates are outlined below (see Figure 2 after Hinse, 1984).

<u>HARKER TOWNSHIP</u>		<u>DAYS WORK COMPLETED</u>	<u>RECORDING DATES</u>
L-738275 to L-738290 inclusive	16	60	March 1, 1984
L-737975 to L-737979 inclusive	5	60	February 27, 1984
L-738601 to L-738606 inclusive	6	60	March 9, 1984
L-738054 to L-738060 inclusive	7	60	March 1, 1984
L-738078 to L-738085 inclusive	8	60	March 1, 1984
L-738399	1	60	February 27, 1984
L-738400 to L-738403 inclusive	4	60	March 1, 1984
L-760147 to L-760156 inclusive	10	60	March 1, 1984
L-738522 to L-738523 inclusive	2	60	March 1, 1984
L-738611 to L-738612 inclusive	2	60	March 9, 1984
	<u>61</u>		



ELLIOTT TOWNSHIP

		<u>DAYS WORK COMPLETED</u>	<u>RECORDING DATES</u>
L-738528 to L-738529 inclusive	2	50	March 1, 1984
L-738834 to L-738835 inclusive	2	60	March 19, 1984
L-738836 to L-738837 inclusive	2	50	March 19, 1984
L-738843	1	50	March 19, 1984
L-738844 to L-738845 inclusive	2	60	March 19, 1984
L-738607 to L-738610 inclusive	4	60	March 9, 1984
L-738404 to L-738408 inclusive	5	60	March 1, 1984
L-739232 to L-739246 inclusive	15	60	March 23, 1984
	<u>33</u>		

THACKERAY TOWNSHIP

L-738838 to L-738840 inclusive	3	80	March 19, 1984
L-738841	1	60	March 19, 1984
L-738842	1	50	March 19, 1984
L-738524 to L-738525 inclusive	2	50	April 25, 1984
L-738526 to L-738527 inclusive	2	50	March 1, 1984
	<u>9</u>		

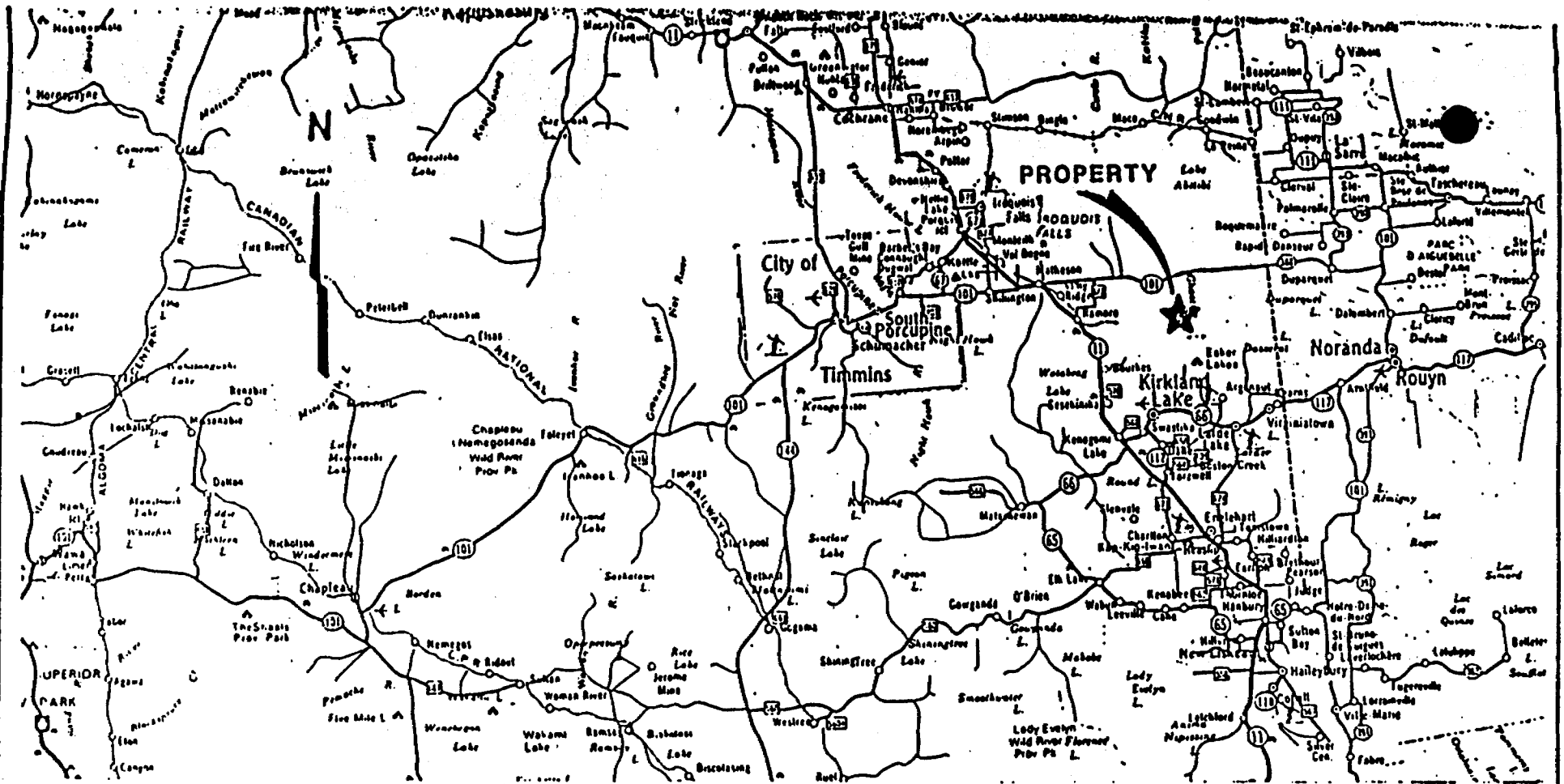


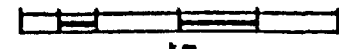
Figure 1.

**GENERAL LOCATION MAP**

PERREX RESOURCES INC.

103 GROUP  
HARKER, ELLIOTT AND THACKERY

10 0 10 30 60 70 TWPS.



1 KM

PROJECT 2236 NTS 32D/05 - 84P



*G. J. Hinse*

G. J. HINSE MAY, 1984

FIGURE 1



PREVIOUS WORK

Previous work on the property includes G.J. Hinse, P. Eng., May 22, 1984, who reviewed the property and outlines magnetic and electromagnetic ground surveys and a basal till sampling program; R.J. Bradshaw, P. Eng., October 7, 1985, reviewed the property; Phoenix Geophysics Ltd., March 7, 1986, undertook the initial induced polarization survey which was later followed by additional induced polarization surveys by Paterson, Grant and Watson Ltd., June - July, 1986. Ground magnetics and VLF-EM was done by Perron's Inc. during 1984 and 1985. Diamond drilling was undertaken in 1986 and the core logged by David Constable, Consulting Geologist.

Several major mining companies are actively engaged in exploration and development in what has become known as «The Harker Holloway Gold Camp». Cominco, Newmont, Kerr Addison and American Barrick all have adjoining claims to the Perrex properties, as do Grandad, Silverhawk and Lenora. The most significant discovery to date is what is called the McDermott Zone by American Barrick being some 2 to 3 miles from the Perrex boundary, followed by the Canamax discovery close by and several very encouraging results by Lenora of the Kasner Group. American Barrick announced drill indicated probably and possible ore reserves as at December 31, 1985, of 2,841,000 tons averaging 0.197 ounces of gold per ton; since that time they are now converting their exploration shaft into a production shaft and are daily increasing ore reserves with the intent of a production decision. Canamax is similarly increasing reserves and is at a production decision stage. It is noteworthy that of the several gold horizons in the area, at least three pass through the Perrex ground (see Figure 3).

To the immediate northeast, on the Sherritt-Perrex-Ambler property, some 34 overburden reverse circulation holes were drilled. All completed holes (33) gave up measurable gold values, the most significant of which was 35,400 ppb or approximately 1.1 ounces per ton. Induced polarization surveys, as well as magnetometer and VLF surveys have been on portions of the holdings, primarily in the vicinity of several airborne indicated anomalies (see Figure 3). Limited diamond drilling has ensued in order to test geological structure beneath a cumbersome overburden covering of most of the property; these holes have returned encouraging anomalous gold values up to .04 ounces per ton and have indicated structure significantly similar to that of the McDermott ore bearing zones.

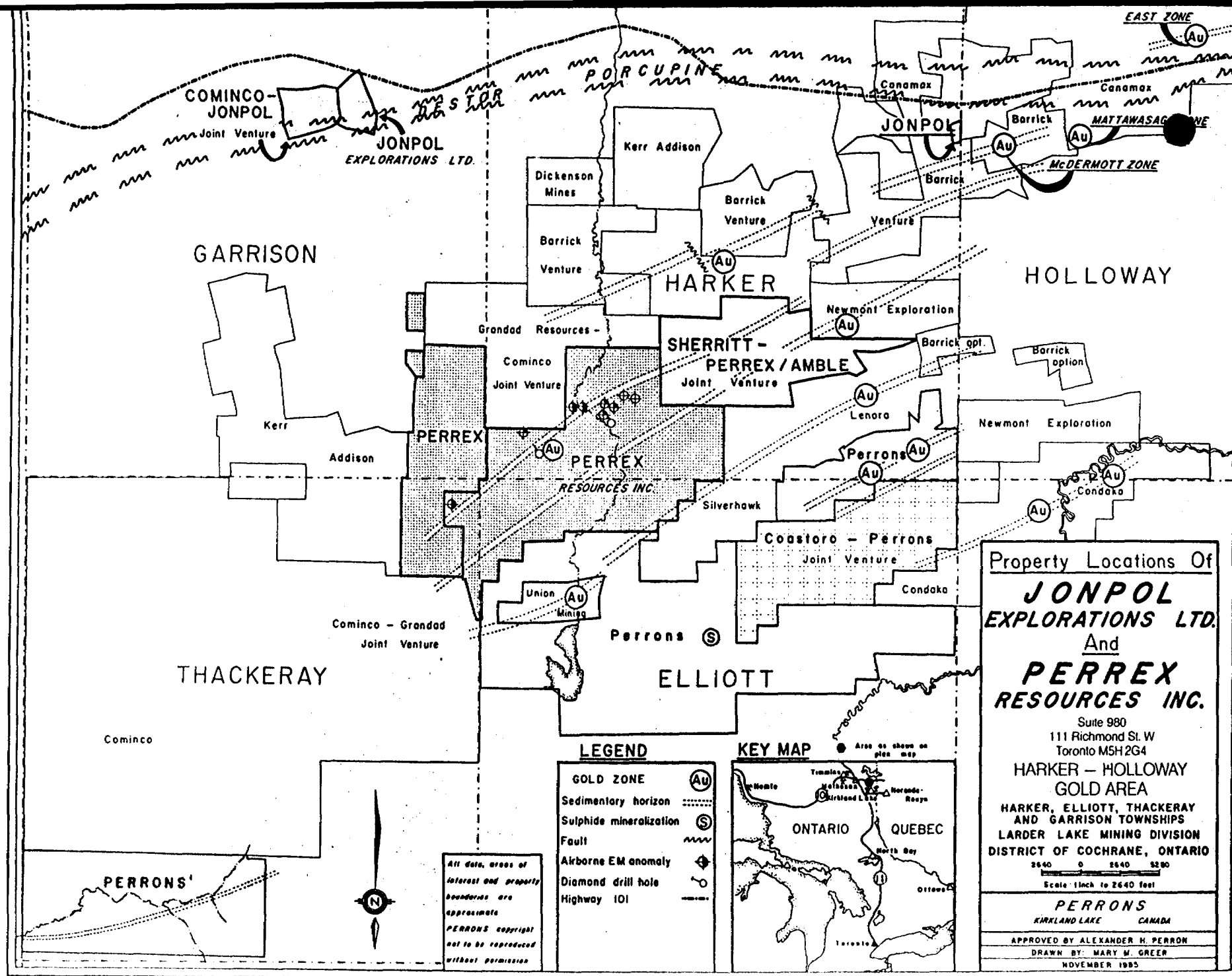


FIGURE 3

REGIONAL GEOLOGY

Geologically the 103 Group of Perrex Resources Inc. overlies Archean rocks of the Kinojevis Group of the Abitibi Greenstone Belt within the Superior Structural Provinces. (See Figure 4 after L.S. Jensen (1986) Ontario Geol. Survey., Misc. Paper 129.)

DRILL PROGRAM 1986

Heath & Sherwood Drilling of Kirkland Lake, Ontario were contracted to penetrate the overburden and core drill bedrock using B.Q. equipment.

The following holes were drilled: (See Figure 5)

<u>Hole No.</u>	<u>Location</u>	<u>Dip</u>	<u>Brg.</u>	<u>Length</u>	<u>Remarks</u>
PX 86-1A	44W, 20N	-50°	332°	165.0'	Overburden
PX 86-1B	44W, 19N	-50°	332°	191.0'	Overburden
PX 86-1C	43+95W, 19N	-50°	332°	235.0'	Overburden
PX 86-1D	44W, 20+10 N	-65°	332°	933.0'	Overburden to 181.0'
PX 86-2	36W, 19+75 N	-65°	332°	595.0'	Overburden to 145.0'
PX 86-3	32W, 7N	-50°	332°	<u>645.0'</u>	Overburden to 174.0'
Subtotal				2,764.0'	

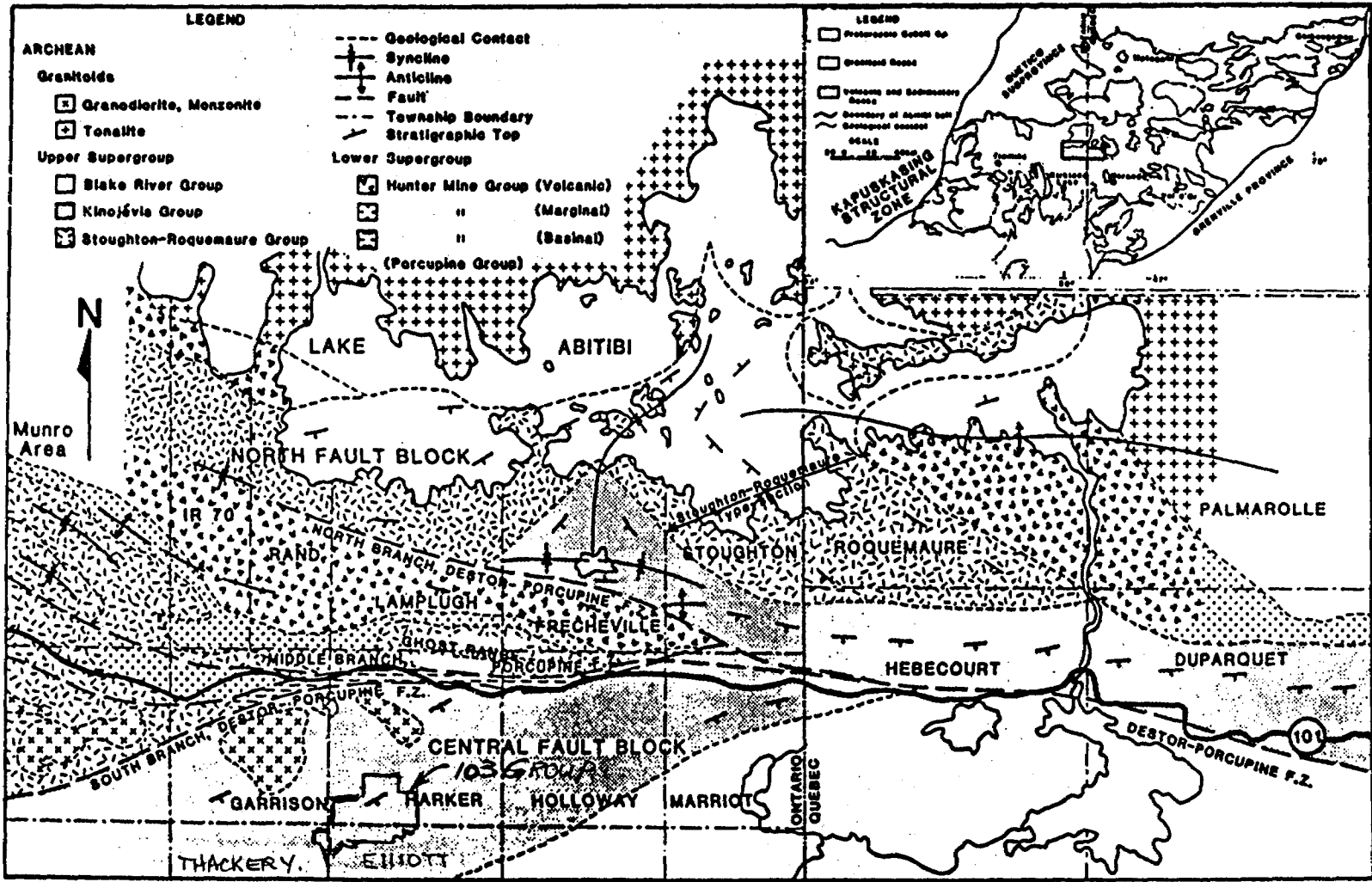
Other holes drilled but not part of O.M.E.P. Grant were:

PX 86-4	671'
* PX 86-5	522'

Diamond drill holes 86-1D (933'), 86-2 (595'), 86-3 (645'), 86-4 (671') and 86-5 (522') were located in a magnetically low trough between two parallel east-northeast trending magnetically high zones.

The area drilled is devoid of outcrops; vertical depth of overburden is: Hole 86-1D, 162'; 86-2, 134'; 86-3, 135'; 86-4, 100'; and 86-5, 81'. Hole 86-1D and 86-2 drilled from station 20N on Lines 44W and 36W respectively indicate the following geological and grade correlations.

\* Note to file - collar data is not available for this hole.



Geological map of the Lake Abitibi area.



**PERREX  
RESOURCES INC.**

**GHOST RIVER-HARKER LAKE  
PROPERTIES**

HARKER, ELLIOTT, GARRISON AND  
THACKERAY TOWNSHIPS  
LARDER LAKE MINING DIVISION  
DISTRICT OF COCHRANE, ONTARIO

**PERRONS' INC.**  
KIRKLAND LAKE CANADA

APPROVED BY: ALEX PERRON DRAWN BY: MARY GREER  
JUNE 1984

**GARRISON TWP.**

**THACKERY TWP.**

**HARKER TWP.**

**PERREX RESOURCES INC.**

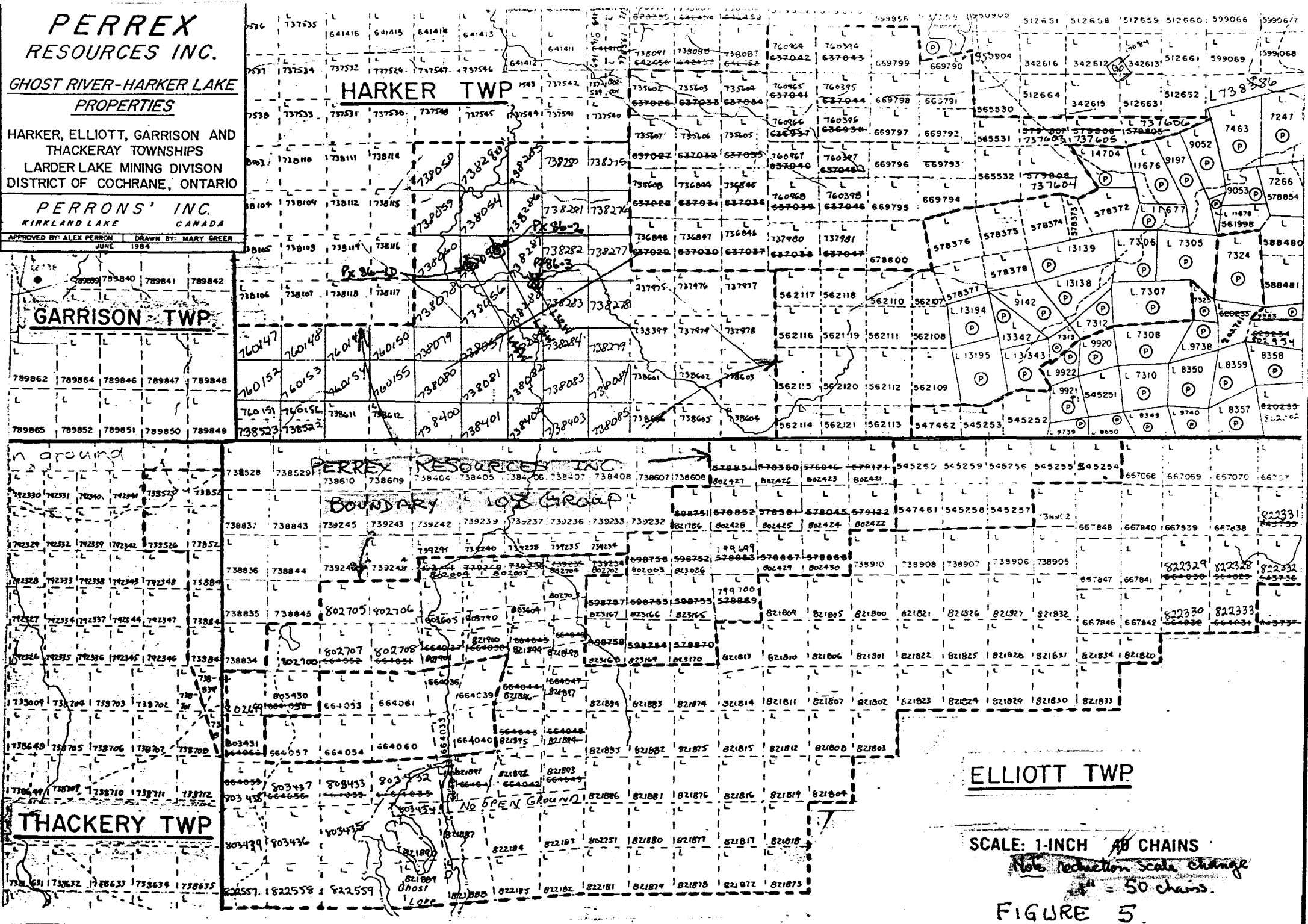
**BOUNDARY 103 GROUP**

**ELLIOTT TWP.**

SCALE: 1-INCH = 40 CHAINS

Note Reduction Scale Change  
1" = 50 chains.

FIGURE 5.

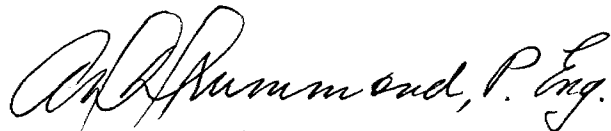




86-1D than in 86-2.

The above mentioned gradients in both width of pyritic horizon and more importantly, in grade of gold noted, indicate that a larger and possibly rich gold-bearing basin may be developing to the west of hole 86-1D.

Respectfully submitted,

A handwritten signature in cursive script that reads "A. D. Drummond, P. Eng.".

A. D. Drummond, Ph. D., P. Eng.

D.D.H. GEOMANAGEMENT LTD.



# DIAMOND DRILL RECORD

LOGGED BY D. Constable

Constable Consulting Inc.

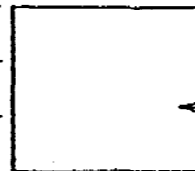
PROPERTY Perrex Property - Harker Township 103

D.D.H. No. Px-86-1A PAGE 1/1

LATITUDE 44+00 W BEARING OF HOLE \_\_\_\_\_ STARTED April 7/86

DEPARTURE 20+00 N DIP OF HOLE -50° COMPLETED April 12/86

ELEVATION Ø DIP TESTS NIL DEPTH 165.0'



CLAIM No. L 738056

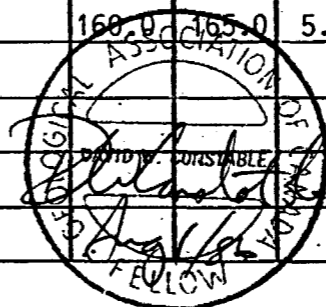
L 738055

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

BQ Core

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY						
FROM	TO			FROM	TO		Au oz/ton						
		<u>Casing</u>											
<u>0.0.</u>	<u>85.0</u>	<u>Clay</u>											
<u>85.0</u>	<u>160.0</u>	<u>Greenstone Boulders and Sand</u>											
		<u>Greenstone is carbonated, grey, fine-grained, soft and extremely blocky. Rock contains disseminated pyrite (1-3%) and in places shows fine bedding of sediments and contains layers of carbon-rich material. The latter rocks are frequently brecciated in macroscopic scale.</u>											
<u>160.0</u>	<u>165.0</u>	<u>Meta-sediments</u>											
		<u>Grey, fine-grained, intensely carbonated and blocky. Contains 2-5% pyrite and traces of chalcopyrite along beds and fractures. Rock is also brecciated in macro. scale.</u>											
		<u>Hole abandoned in AQ core due to extreme overburden depth and blocky ground.</u>											
		<u>End of Hole Px-86-1A is at 165.0'</u>											



# DIAMOND DRILL RECORD

LOGGED BY D. Constable

Constable Consulting Inc.

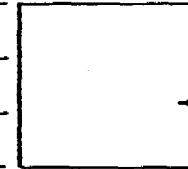
PROPERTY Perrex Property - Harker Township 103

D.D.H. No. Px-86-1B PAGE 1/1

LATITUDE 44+00 W BEARING OF HOLE \_\_\_\_\_ STARTED April 13/86

DEPARTURE 19+00 N DIP OF HOLE -50° COMPLETED April 17/86

ELEVATION Ø DIP TESTS NIL DEPTH 191.0'



CLAIM No. L 738056

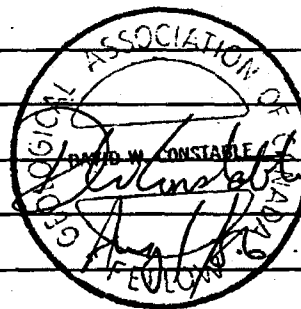
L 738055

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

BQ Core

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY						
FROM	TO			FROM	TO								
		<u>Casing</u>											
<u>0.0</u>	<u>85.0</u>	<u>Clay</u>											
<u>85.0</u>	<u>191.0</u>	<u>Boulders and sand.</u>											
		<u>Boulders are a mix of Granite and Greenstones. Hard and generally less altered than in Hole Px-86-1A.</u>											
		<u>Hole Px-86-1B lost at 191.0' due to Casing Breaking in Overburden.</u>											
		<u>End of Hole Px-86-1B is at 191.0'.</u>											



# DIAMOND DRILL RECORD

LOGGED BY D. Constable

Constable Consulting Inc.

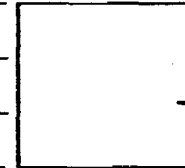
PROPERTY Perrex Property - Harker Township 103

D.D.H. No. Px-86-1C PAGE 1/1

LATITUDE 43+95 W BEARING OF HOLE \_\_\_\_\_ STARTED April 17/86

DEPARTURE 19+00 N DIP OF HOLE -50° COMPLETED April 19/86

ELEVATION Ø DIP TESTS NIL DEPTH 235.0'



CLAIM No. L 738056

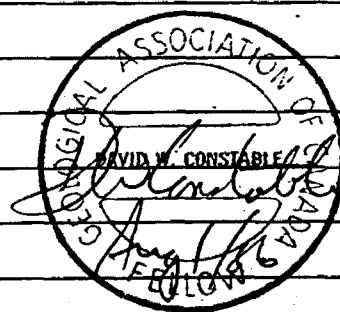
L 738055

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

BQ Core

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY							
FROM	TO			FROM	TO									
		Casing												
0.0	82.0	Clay												
82.0	235.0	Boulders and Sand												
		Boulders are a mix of greenstones and granites.												
		Hole Lost at 235.0' - Casing Broken.												
		End of Hole Px-86-1C is at 235.0'.												



# DIAMOND DRILL RECORD

LOGGED BY D. Constable

Constable Consulting Inc.

PROPERTY Perrex Resources Inc. - Harker Twp. Property 103

D.D.H.No. Px-86-1D PAGE 1/10

LATITUDE 44+00 W BEARING OF HOLE \_\_\_\_\_ STARTED April 19/86

CLAIM No. L 738056

DEPARTURE 20+10 N DIP OF HOLE -65° COMPLETED April 29/86

N ← DIRECTION AND DISTANCE FROM

ELEVATION - DIP TESTS -65° at 315' & 933' DEPTH 933.0'

NE. CLAIM POST

BQ Core

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY						
FROM	TO			FROM	TO		Au	ppb					
0.0	181.0	Casing											
		0' - 66.0' Clay											
		66.0' - 181.0' Boulders and sand.											
181.0	212.0	Graphitic and Carbonated Sediments											
		Alternating black and grey beds, hard, fine-grained with bedding at 40° to CA. blocky.											
		181.0 - 186.5 only 4.0' of core recovered (75 % recovery in graphitic - pyritic-quartz-veined rock (conductive).	4701	181.0	186.4	5.4	70	50					
		186.5 - 191.9 grey carbonate with disseminated (1%) pyrite	4702	186.4	191.7	5.3	10						
		191.9 - 194.0 black graphitic rock with 3-5% pyrite as beds and disseminates (conductive).	4703	191.7	194.1	2.4	20						
		194.0 - 212.0 grey carbonated greywacke contains more silica and is harder. Bedding is indistinct and pyrite disseminates	4704	194.1	201.6	7.5	Nil						
			4705	201.6	204.8	3.2	Nil						



# DIAMOND DRILL RECORD

LOGGED BY D. Constable

Constable Consulting Inc.

PROPERTY \_\_\_\_\_

D.D.H. No. Px-86-1D

PAGE 2/10

LATITUDE \_\_\_\_\_ BEARING OF HOLE \_\_\_\_\_ STARTED \_\_\_\_\_

CLAIM No. \_\_\_\_\_

DEPARTURE \_\_\_\_\_ DIP OF HOLE \_\_\_\_\_ COMPLETED \_\_\_\_\_

DIRECTION AND DISTANCE FROM

ELEVATION \_\_\_\_\_ DIP TESTS \_\_\_\_\_ DEPTH \_\_\_\_\_

NE. CLAIM POST



BQ Core

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY				
FROM	TO			FROM	TO		AU	DD	DD		
		(194.0 - 212.0 - continued)	4706	204.8	208.0	3.2	Nil				
		are 1% of the rock. Slight fucsitic colour to rock by 204.0'	4707	208.0	212.0	4.0	Nil				
		Pyrite decreases.									
212.0	315.1	<u>Mafic Metasediments and Pyroclastics</u>									
		Carbonated, grey, massive average hardness, fine-grained rock.									
		Rock also contains small angular graphitic partings and wisps									
		comprising 3-8% of the rock.									
		At 211.0' bedding is at 32° to CA.									
		By 212.0' rock shows characteristics of tuffs and pyroclastics	4708	212.0	218.3	6.3	Nil				
		(Mafic). Pyrite is almost completely absent. All the rock is	4709	218.3	222.0	3.7	Nil				
		carbonated. Rock changes are subtle and gradational.	4710	222.0	225.0	3.0	Nil				
		Pyrite is absent except for rare isolated crystals. Graphitic	4711	225.0	229.7	4.7	Nil				
		wisps are still present as well as a poorly preserved bedding and	4712	229.7	233.1	3.4	Nil				
		possible fragments. Narrow erratic, unmineralized white quartz veins	4713	233.1	236.0	2.9	Nil				
		were observed at 274.5' (7"), 287.8'(2") and 288.5'(3"). In addition,	4714	236.0	240.0	4.0	Nil				
		hairline irregular fracture fillings of quartz are also noted composing	4738	240.0	247.7	7.7	Nil				

# DIAMOND DRILL RECORD

LOGGED BY D. Constable

Constable Consulting Inc.

D.D.H. No. Px-86-1D PAGE 3/10

PROPERTY \_\_\_\_\_

LATITUDE \_\_\_\_\_

BEARING OF HOLE \_\_\_\_\_

STARTED \_\_\_\_\_

DEPARTURE \_\_\_\_\_

DIP OF HOLE \_\_\_\_\_

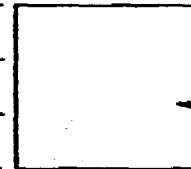
COMPLETED \_\_\_\_\_

ELEVATION \_\_\_\_\_

DIP TESTS \_\_\_\_\_

DEPTH \_\_\_\_\_

BQ Core



CLAIM No. \_\_\_\_\_

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY				
FROM	TO			FROM	TO		Au	dob			
		<1% of the unit.	4739	247.7	251.6	3.9	10				
			4740	251.6	255.0	3.4	Nil				
			4741	255.0	259.0	4.0	Nil				
			4742	259.0	263.0	4.0	Nil				
			4743	263.0	267.6	4.6	Nil				
			4744	267.6	270.0	2.4	Nil				
			4745	270.0	274.1	4.1	10				
			4746	274.1	277.6	3.5	Nil				
			4747	277.6	281.5	4.9	Nil				
			4748	281.5	285.0	3.5	Nil				
			4749	285.0	288.9	3.9	Nil				
			4750	288.9	293.0	4.1	Nil				
			4751	293.0	296.0	3.0	Nil				
			4752	296.0	299.7	3.7	Nil				
		From 298.0' onwards erratic white quartz veins increase and by	4753	299.7	303.6	3.9	Nil				
		307.5' rock becomes distinctly grey-brown in colour and pyrite content	4754	303.6	307.6	4.0	10				
		increases to 1% disseminates in section 311.9 - 315.1'.	4755	307.6	311.9	4.3	Nil				
			4756	311.9	315.0	3.1	Nil				

# DIAMOND DRILL RECORD

LOGGED BY D. Constable

Constable Consulting Inc.

D.D.H. No. Px-86-1D PAGE 4/10

PROPERTY \_\_\_\_\_

LATITUDE \_\_\_\_\_

BEARING OF HOLE \_\_\_\_\_

STARTED \_\_\_\_\_

DEPARTURE \_\_\_\_\_

DIP OF HOLE \_\_\_\_\_

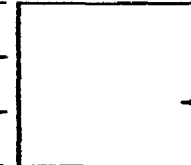
COMPLETED \_\_\_\_\_

ELEVATION \_\_\_\_\_

DIP TESTS \_\_\_\_\_

DEPTH \_\_\_\_\_

BQ Core



CLAIM No. \_\_\_\_\_

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY						
FROM	TO			FROM	TO		Au	DDb					
315.1	346.2	<u>Black Graphitic Sediments</u>											
		Blocky, black, silicified and quartz veined containing 1-4%	4720	315.0	318.0	3.0	Nil						
		pyrite as beds and disseminates. Bedding is at 48° to CA.	4721	318.0	321.4	3.4	10						
			4722	321.4	325.0	3.6	10						
			4723	325.0	328.9	3.9	10						
			4724	328.9	333.6	4.7	Nil						
			4716	333.6	336.6	3.0	20						
			4717	336.6	341.7	5.1	10						
			4718	341.7	346.3	4.6	30 20						
346.2	485.6	<u>Carbonated Mafic Metasediments and Pyroclastics</u>											
		Starts out grey-brown then gradually becomes greener. Average	4719	346.3	352.0	5.7	Nil						
		hardness, fine-grained, blocky. Contains graphitic conformable pyritic	4757	352.0	356.0	4.0	Nil						
		beds from 373.1' to 374.8' and 395.2' to 396.5'. Rock also contains	4758	356.0	358.4	2.4	Nil						
		good bedding at 32° to CA and irregularly-distributed pyrite crystals	4759	358.4	361.5	3.1	Nil						
		disseminated throughout the rock.	4760	361.5	365.0	3.5	20 Nil						
		Grain size and textures change throughout this section from fine-	4761	365.0	368.9	3.9	Nil						
		to-medium-grained and from well-bedded to unbedded.	4715	368.9	370.8	1.9	Nil						

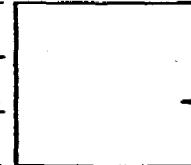
# DIAMOND DRILL RECORD

LOGGED BY D. Constable

Constable Consulting Inc.

D.D.H. No. Px-86-1D PAGE 5/10

PROPERTY \_\_\_\_\_  
 LATITUDE \_\_\_\_\_ BEARING OF HOLE \_\_\_\_\_ STARTED \_\_\_\_\_  
 DEPARTURE \_\_\_\_\_ DIP OF HOLE \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ DIP TESTS \_\_\_\_\_ DEPTH \_\_\_\_\_  
 B.Q. Core



CLAIM No. \_\_\_\_\_  
 DIRECTION AND DISTANCE FROM  
 NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY				
FROM	TO			FROM	TO		Au	ppb			
			4762	370.8	375.0	4.2	10				
			4763	375.0	378.8	3.8	Nil				
			4764	378.8	381.7	2.9	Nil				
			4765	381.7	385.0	3.3	Nil				
			4766	385.0	389.1	4.1	Nil				
			4767	389.1	392.7	3.6	Nil				
			4768	392.7	394.6	1.9	Nil				
			4769	394.6	396.5	1.9	20				
			4770	396.5	399.9	3.4	Nil				
			4771	399.9	405.0	5.1	20				
			4772	405.0	408.8	3.8	Nil				
			4773	408.8	413.0	4.2	Nil				
			4774	413.0	416.8	3.8	Nil				
			4775	416.8	421.6	4.8	10				
			4776	421.6	423.4	1.8	Nil				
			4777	423.4	425.6	2.2	Nil				
			4778	425.6	428.0	2.4	Nil				

# DIAMOND DRILL RECORD

LOGGED BY D. Constable

Constable Consulting Inc.

PROPERTY \_\_\_\_\_

D.D.H. No. Px-86-1D PAGE 6/10

LATITUDE \_\_\_\_\_

BEARING OF HOLE \_\_\_\_\_

STARTED \_\_\_\_\_

CLAIM No. \_\_\_\_\_

DEPARTURE \_\_\_\_\_

DIP OF HOLE \_\_\_\_\_

COMPLETED \_\_\_\_\_

DIRECTION AND DISTANCE FROM

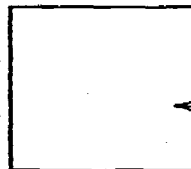
ELEVATION \_\_\_\_\_

DIP TESTS \_\_\_\_\_

DEPTH \_\_\_\_\_

NE. CLAIM POST

BQ Core



FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY				
FROM	TO			FROM	TO		Au	ppb			
			4779	428.0	432.4	4.4	Nil				
			4780	432.4	437.0	4.6	Nil				
			4781	437.0	442.0	5.0	Nil				
			4782	442.0	445.0	3.0	Nil				
		At 444.3' a 2" - wide quartz-carbonate vein contains 1/2"	4783	445.0	448.8	3.8	Nil				
		chalcopyrite crystals.	4784	448.8	452.7	4.9	Nil				
			4785	452.7	457.5	4.8	Nil				
			4786	457.5	462.3	4.8	Nil				
		From 466.3 - 485.6' rock becomes intensely carbonated and	4787	462.3	466.6	4.3	Nil				
		pyritized (3-5%) as beds and disseminated. Rock also becomes criss-	4725	469.2	471.3	2.1	20				
		crossed by conformable and unconformable white quartz-carbonate veinlets	4726	471.3	472.0	0.7	Nil				
		comprising 15 to 100% of the rock.	4727	472.0	475.0	3.0	20				
		Conformable OUT Contact at 32° to CA.	4728	475.0	479.5	4.5	140 100				
			4795	629.9	634.4	4.5	60				
			4796	636.4	640.5	4.1	10				
			4729	479.5	480.7	1.2	Nil				
			4730	480.7	485.6	4.9	Nil				











# DIAMOND DRILL RECORD

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Constable Consultant Inc.

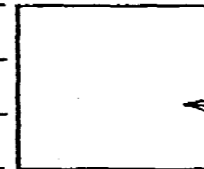
PROPERTY Perrex Resources Inc.-Harker Township Property 103

D.D.H. No. Px-86-2 PAGE 1/7

LATITUDE 36 + 00 W BEARING OF HOLE (Ast.) STARTED April 29/86

DEPARTURE 19 + 75 N DIP OF HOLE -65° COMPLETED May 7, 1986

ELEVATION Ø DIP TESTS -63° at 150' DEPTH 595.0'



CLAIM No. L 738055

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

BQ Core

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY						
FROM	TO			FROM	TO		AU	DOB					
0.0	145.0	Casing											
		0' - 72.0' Clay											
		72.0' - 145.0' Boulders and Sand											
145.0	400.0	Mafic Metasediments and Pyroclastics											
		Dark Green, average hardness, with fragments and beds(?) at 48 ° to	4522	145.7	147.0	1.3	Nil						
		CA. Rock is extremely chloritic and carbonated. Contains trace to	4523	147.0	150.9	3.9	10						
		1% disseminated pyrite and 2% fine irregular white quartz-carbonate vein-	4524	150.9	154.2	3.3	Nil						
		lets.	4525	154.2	157.1	2.9	Nil						
			4526	157.1	159.6	2.5	Nil						
			4527	159.6	161.4	1.8	Nil						
			4528	161.4	165.0	3.6	30						
			4529	165.0	167.9	2.9	70/90						
			4530	167.9	171.4	3.5	Nil						
			4531	171.4	173.5	2.1	Nil						

# DIAMOND DRILL RECORD

LOGGED BY D. Constable

Constable Consultant Inc.

PROPERTY \_\_\_\_\_

LATITUDE \_\_\_\_\_

DEPARTURE \_\_\_\_\_

ELEVATION \_\_\_\_\_

BEARING OF HOLE \_\_\_\_\_

DIP OF HOLE \_\_\_\_\_

DIP TESTS \_\_\_\_\_

STARTED \_\_\_\_\_

COMPLETED \_\_\_\_\_

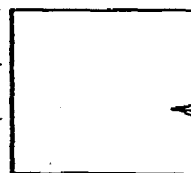
DEPTH \_\_\_\_\_

D.D.H. No. Px-86-2 PAGE 2/7

CLAIM No. \_\_\_\_\_

DIRECTION AND DISTANCE FROM

NE. CLAIM POST



BQ Core

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY				
FROM	TO			FROM	TO		Au	ppb			
		From 173.3 - 177.1 graphitic-matrix-breccia with green metaseds.	4532	173.5	177.3	3.8	Nil				
		as fragments. Contains 1-2% pyrite disseminates. Poor conduction.	4533	177.3	181.5	4.2	Nil				
			4534	181.5	183.1	1.6	Nil				
			4536	186.7	189.9	3.2	Nil				
			4537	189.9	192.1	2.2	10				
		From 190.3 - 194.6' Graphitic beds and matrix for breccia zone	4538	192.1	194.5	2.4	Nil				
		contains both pyritic beds and disseminated pyrite (2%) as well as quartz	4539	194.5	197.1	2.6	Nil				
		veins with green metaseds. as fragments. So at 50° to CA. Poor									
		conductor.									
		From 196.7 - 198.9' Graphitic Unit with fragments of green metased.	4540	197.1	199.4	2.3	Nil				
			4541	199.4	203.3	3.9	10				
			4542	203.3	206.8	3.5	10				
			4543	206.8	210.0	3.2	20				
			4544	210.0	213.5	3.5	10				
			4545	213.5	216.7	3.2	Nil				
			4546	216.7	220.0	3.3	Nil				
			4547	220.0	224.0	4.0	Nil				

# DIAMOND DRILL RECORD

LOGGED BY D. Constable

Constable Consultant Inc.

PROPERTY \_\_\_\_\_

D.D.H. No. Px-86-2 PAGE 3/7

LATITUDE \_\_\_\_\_

BEARING OF HOLE \_\_\_\_\_

STARTED \_\_\_\_\_

CLAIM No. \_\_\_\_\_

DEPARTURE \_\_\_\_\_

DIP OF HOLE \_\_\_\_\_

COMPLETED \_\_\_\_\_

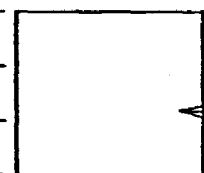
DIRECTION AND DISTANCE FROM

ELEVATION \_\_\_\_\_

DIP TESTS \_\_\_\_\_

DEPTH \_\_\_\_\_

NE. CLAIM POST



FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY				
FROM	TO			FROM	TO		Au ppb				
		From 224.0 - 233.8' Conformable Graphitic breccia unit. Fair	4548	224.0	225.6	1.6	Nil				
		conduction	4549	225.6	230.0	4.4	Nil				
			4550	230.0	233.8	3.8	Nil				
			4551	233.8	236.6	2.8	Nil				
		From 235.1 - 236.5 Graphitic breccia again.	4552	236.6	241.0	4.4	Nil				
			4553	241.0	244.0	3.0	Nil				
			4554	244.0	247.1	3.1	Nil				
			4555	247.1	250.4	3.3	Nil/Nil				
			4556	250.4	255.0	4.6	Nil				
			4557	255.0	259.9	4.9	Nil				
		From 145.0 - 250.0' there are small areas of purple colour and above average silicification for example from 233.8 - 235.1' and from 236.5 to 244.0'									
		Silica floods with purple colour and pyrite (1-2%) from 260.5 to 262.8', 264.4 to 267.7, 271.9 to 274.4', 283.3 to 284.5'	4558	259.9	263.0	3.1	Nil				
			4559	263.0	264.6	1.6	Nil				
			4560	264.6	267.7	3.1	Nil				

# DIAMOND DRILL RECORD

LOGGED BY D. Constable

Constable Consultant Inc.

PROPERTY \_\_\_\_\_

D.D.H. No. Px-86-2 PAGE 4/7

LATITUDE \_\_\_\_\_

BEARING OF HOLE \_\_\_\_\_

STARTED \_\_\_\_\_



CLAIM No. \_\_\_\_\_

DEPARTURE \_\_\_\_\_

DIP OF HOLE \_\_\_\_\_

COMPLETED \_\_\_\_\_

DIRECTION AND DISTANCE FROM

ELEVATION \_\_\_\_\_

DIP TESTS \_\_\_\_\_

DEPTH \_\_\_\_\_

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Au ppb	ASSAY			
FROM	TO			FROM	TO						
			4561	267.7	271.6	3.9	Nil				
			4562	271.6	274.6	3.0	Nil				
			4563	274.6	277.6	3.2	Nil				
			4564	277.8	280.4	2.6	Nil				
			4565	280.4	283.5	3.1	Nil				
			4566	283.5	284.5	1.0	50/60				
			4567	284.5	288.1	3.6	Nil				
			4568	288.1	289.9	1.8	Nil				
		Graphitic chert beds and pyrite (2-3%) from 289.9 to 302.2'. Poor	4569	289.9	293.7	3.8	Nil				
		conductor.	4570	293.7	297.9	4.2	Nil				
			4571	297.9	301.5	3.6	10				
			4572	301.5	305.0	3.5	Nil				
			4573	305.0	307.9	2.9	Nil				
			4574	307.9	314.3	6.4	Nil				
		Graphitic chert beds 314.3 to 316.0', 320.0 to 321.1', 325.2 to	4575	314.3	316.4	2.1	Nil				
		327.2', 339.3 to 341.0'	4576	316.4	319.9	3.5	Nil				
			4577	319.9	325.0	5.1	Nil				

# DIAMOND DRILL RECORD

LOGGED BY D. Constable

Constable Consultant Inc.

PROPERTY \_\_\_\_\_

LATITUDE \_\_\_\_\_

DEPARTURE \_\_\_\_\_

ELEVATION \_\_\_\_\_

BEARING OF HOLE \_\_\_\_\_

DIP OF HOLE \_\_\_\_\_

DIP TESTS \_\_\_\_\_

STARTED \_\_\_\_\_

COMPLETED \_\_\_\_\_

DEPTH \_\_\_\_\_



D.D.H. No. Px-86-2

PAGE 5/7



CLAIM No. \_\_\_\_\_

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY				
FROM	TO			FROM	TO		Au	ppb			
			4578	325.0	327.6	2.6	Nil				
			4579	327.6	332.4	4.8	Nil				
			4580	332.4	335.0	2.6	Nil				
			4581	335.0	337.0	2.0	Nil				
			4582	337.0	341.1	4.1	30				
			4583	341.1	344.4	3.3	Nil				
		Silica flood with increasing brown colour and finely disseminated	4584	344.4	347.0	2.6	Nil				
		pyrite (up to 10%) from 345.0 to 356.0	4585	347.0	351.1	4.1	60/50				
			4586	351.1	355.6	4.5	10				
		From 356.0' onwards rock regains softness and green colour	4587	355.6	359.8	4.2	Nil				
			4588	359.8	364.0	4.2	Nil				
			4589	364.0	367.8	3.8	Nil				
			4590	367.8	370.9	3.1	Nil				
		By 370.9' rock shows signs of breccia texture, intensifying to	4591	370.9	374.0	3.1	Nil				
		the area of 391.5'	4592	374.0	377.3	3.3	310/200				
			4593	377.3	380.9	3.6	Nil				
			4594	380.9	385.0	4.1	Nil				



# DIAMOND DRILL RECORD

LOGGED BY D. Constable

Constable Consultant Inc.

PROPERTY \_\_\_\_\_

D.D.H. No. Px-86-2

PAGE 7/7

LATITUDE \_\_\_\_\_

BEARING OF HOLE \_\_\_\_\_

STARTED \_\_\_\_\_



CLAIM No. \_\_\_\_\_

DEPARTURE \_\_\_\_\_

DIP OF HOLE \_\_\_\_\_

COMPLETED \_\_\_\_\_

DIRECTION AND DISTANCE FROM

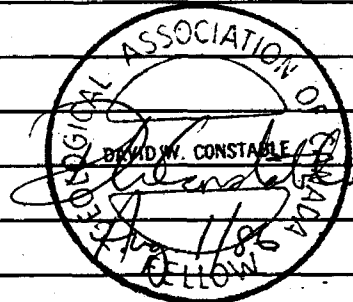
ELEVATION \_\_\_\_\_

DIP TESTS \_\_\_\_\_

DEPTH \_\_\_\_\_

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY						
FROM	TO			FROM	TO		Au	ppb					
		By 515.0' vesicles begin to appear filled with white qtz-carb.											
		Increasing grain size by 570.0'											
		End of Hole Px-86-2 is at 595.0'											









# DIAMOND DRILL RECORD

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Constable Consulting Inc.

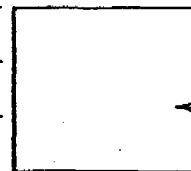
PROPERTY \_\_\_\_\_

D.D.H. No. Px-86-3

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LATITUDE \_\_\_\_\_ BEARING OF HOLE \_\_\_\_\_

STARTED \_\_\_\_\_



CLAIM No. \_\_\_\_\_

DEPARTURE \_\_\_\_\_ DIP OF HOLE \_\_\_\_\_

COMPLETED \_\_\_\_\_

DIRECTION AND DISTANCE FROM

ELEVATION \_\_\_\_\_ DIP TESTS \_\_\_\_\_

DEPTH \_\_\_\_\_

NE. CLAIM POST

BQ Core

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY						
FROM	TO			FROM	TO		Au	ppb					
		From 511.0 onwards irregular white quartz-carbonate veins and veinlets cut rock (2%)											
		From 512.7 - 513.3 quartz breccia zone with 1% pyrite.	4502	512.7	513.5	0.8	200/110						
			4503	513.5	517.3	3.8	70						
			4504	517.3	520.7	3.4	20						
			4505	520.7	524.5	3.8	10						
			4506	524.5	529.1	4.6	20						
529.2	550.0	Chert Breccia											
		Light grey to buff, hard, massive rock cut by quartz veins and brecciated with fractures filled by dark mineral and carbonate 1-2%	4507	529.1	532.2	3.1	30						
		finely disseminated pyrite and chalcopyrite. Sharp conformable OUT contact at 52° to CA.	4508	532.2	535.6	3.4	30						
			4509	535.6	539.7	4.1	30						
			4510	539.7	543.6	3.9	10						
			4511	543.6	545.0	1.4	Nil						
			4512	545.0	548.0	3.0	20						
			4513	548.0	550.0	2.0	Nil						

# DIAMOND DRILL RECORD

LOGGED BY D. Constable

Constable Consultant Inc.

PROPERTY Perrex Resources Inc.-Harker Township Property 103

D.D.H. No. Px-86-3

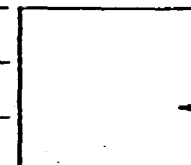
PAGE 4/4

LATITUDE \_\_\_\_\_ BEARING OF HOLE \_\_\_\_\_ STARTED \_\_\_\_\_

DEPARTURE \_\_\_\_\_ DIP OF HOLE \_\_\_\_\_ COMPLETED \_\_\_\_\_

ELEVATION \_\_\_\_\_ DIP TESTS \_\_\_\_\_ DEPTH \_\_\_\_\_

BQ Core



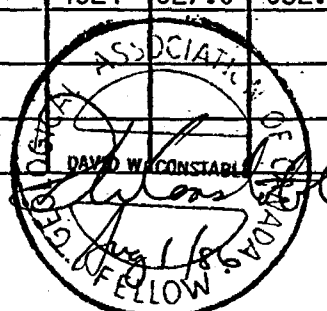
CLAIM No. \_\_\_\_\_

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY						
FROM	TO			FROM	TO		Au	ppb					
550.0	645.0	Mafic Volcanic Flow (Mg-Tholeiite)											
		Dark Green, massive, average hardness with 1-2% irregular white veins	4514	550.0	555.0	5.0	Nil						
		and veinlets. Pyrite cubes along fractures and isseminated (<1%).	4515	55.0	559.0	4.0	10						
			4516	559.0	564.0	5.0	10						
			4517	564.0	567.8	3.8	Nil						
		From 593.7 - 594.5 Zone of calcite-qtz and breccia.											
		Selvages with epidote at 614.5 and 623.8'	4518	614.7	618.4	3.7	Nil						
			4519	618.4	623.2	4.8	Nil						
		At 625.3-2" wide quartz-carbonate-specular hemotite filled vein.	4520	623.2	627.0	3.8	Nil						
			4521	627.0	632.5	5.5	Nil						
		At 621.7 blebs of chalcopryrite as well as pyrite.											
		At 636.5 - 1" wide quartz-calcite-specular hematite vein.											

End of Hole Px-86-3 is at 645.0'













# DIAMOND DRILL RECORD

LOGGED BY D. CONSTABLE

CONSTABLE CONSULTING INC.

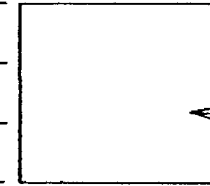
PROPERTY PERREX RESOURCES INC. Property 105

D.D.H. No. PX-86-4 PAGE 5 of 5

LATITUDE \_\_\_\_\_ BEARING OF HOLE \_\_\_\_\_ STARTED \_\_\_\_\_

DEPARTURE \_\_\_\_\_ DIP OF HOLE -50° COMPLETED \_\_\_\_\_

ELEVATION \_\_\_\_\_ DIP TESTS -50° at 200' -50° at 300' DEPTH 671.0'  
-50° at 400' -50° at 500'  
-49° at 666'

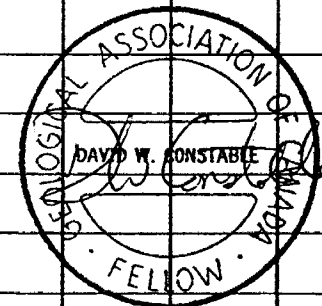


CLAIM No. \_\_\_\_\_

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY						
FROM	TO			FROM	TO								
		From 594.6' rock is epidotized, silicified and fracture-filled with quartz-epidote and pyrite. (To 602.8').											
		From 602.8' to 610.4' Core is extremely blocky and some 20% of the core was ground or lost. Broken material appears to be another lamprophyre dyke which ends at 612.3'. Then bleaching on contact and epidote development. Dyke again at 613.0' to 613.6'.											
		Then back into medium-grained Mg-Tholeiite flows increasing to coarse-grained at 628.0' Nil sulfides.											
		From 669.0' to 671.0' gradual decrease in grain size to fine-grained.											
		END OF HOLE PX-86-4 is at 671.0'											









D.D.H. GEOMANAGEMENT LTD.

Duplicate

February 9, 1987

MINISTRY OF NORTHERN  
DEVELOPMENT AND MINES

FEB 10 1987,

Mr. Phil Hum,  
O.M.E.P.  
Ministry of Northern Development and Mines,  
Room 4650, Whitney Block,  
Queen's Park,  
Toronto, Ontario  
M7A 1W3

OMEP OFFICE

Dear Mr. Hum,

RE: Perrex Resources Inc.  
103 Group  
Harker-Elliott & Thackeray Townships,  
Larder Lake Mining Division,  
District of Cochrane, Ontario

Further to our telephone conversation re the subject property on February 9, 1987, I understand that you have on file the diamond drill logs by Mr. David Constable as well as the cost report on the program.

This letter report is designed to cover the geological aspects of the program as Mr. Constable is away at this time and to fill in the missing data that you requested.

O.M.E.P.  
ECC

LOCATION AND ACCESS

The Perrex Resources Inc. 103 Group is located principally in Harker Township with extensions into the adjoining townships of Elliott to the south and Thackeray to the southwest in northeastern Ontario, some 30 kms north of Kirkland Lake and 30 kms west of the Ontario - Quebec border (see Figure 1 after Hinse, 1984).

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L-760147 to L-760156 inclusive	10	60	March 1, 1984
L-738522 to L-738523 inclusive	2	60	March 1, 1984
L-738611 to L-738612 inclusive	2	60	March 9, 1984
	<u>61</u>		

O.M.E.P.  
1984

ELLIOTT TOWNSHIP

		<u>DAYS WORK COMPLETED</u>	<u>RECORDING DATES</u>
L-738528 to L-738529 inclusive	2	50	March 1, 1984
L-738834 to L-738835 inclusive	2	60	March 19, 1984
L-738836 to L-738837 inclusive	2	50	March 19, 1984
L-738843	1	50	March 19, 1984
L-738844 to L-738845 inclusive	2	60	March 19, 1984
L-738607 to L-738610 inclusive	4	60	March 9, 1984
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	33		

THACKERAY TOWNSHIP

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L-738526 to L-738527 inclusive	<u>2</u>	50	March 1, 1984
	9		

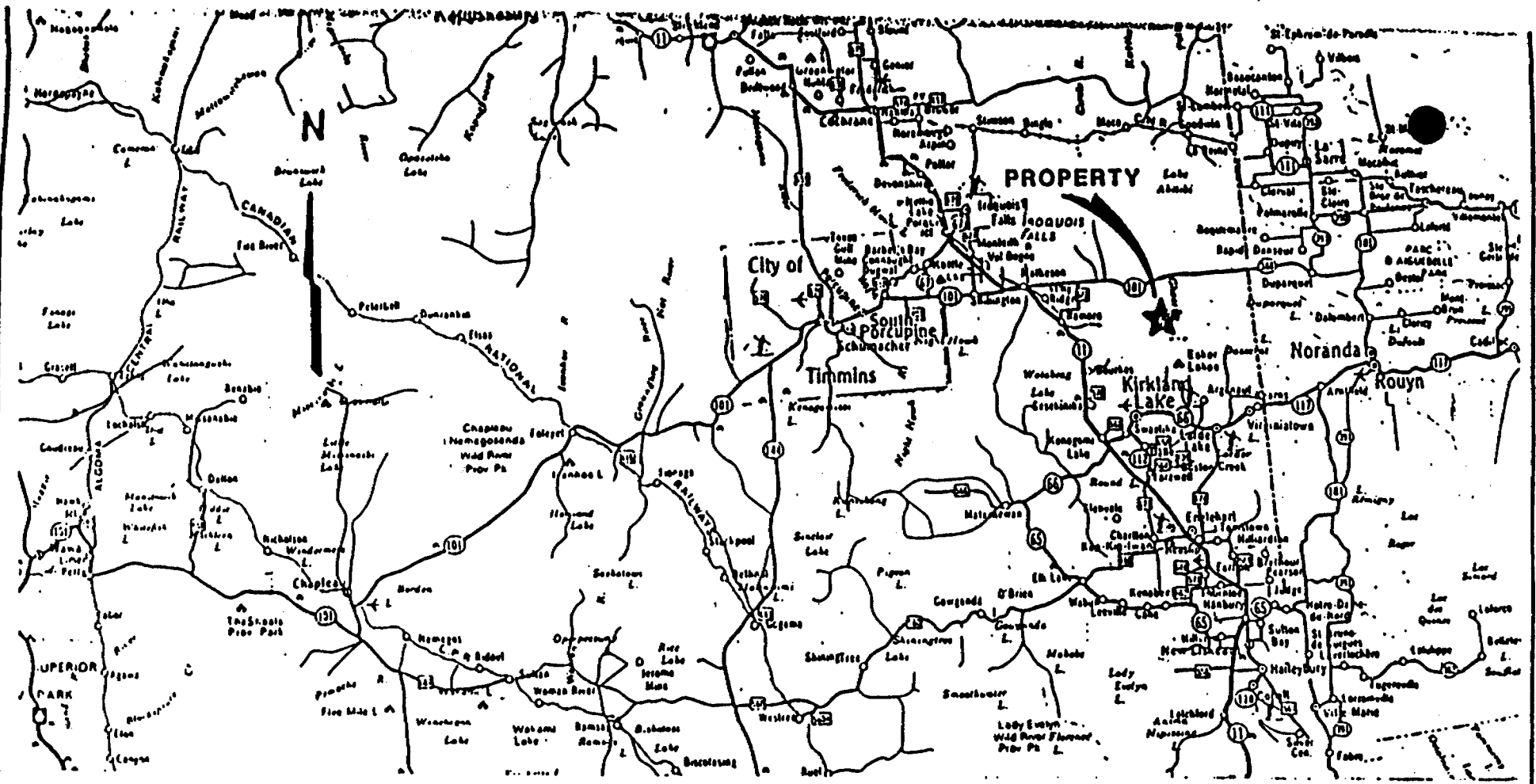
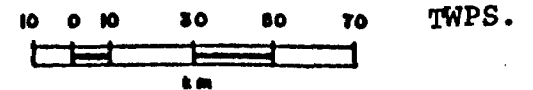


Figure 1.

GENERAL LOCATION MAP

PERREX RESOURCES INC.

103 GROUP  
HARKER, ELLIOTT AND THACKERY



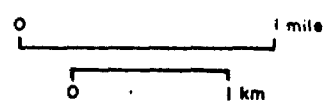
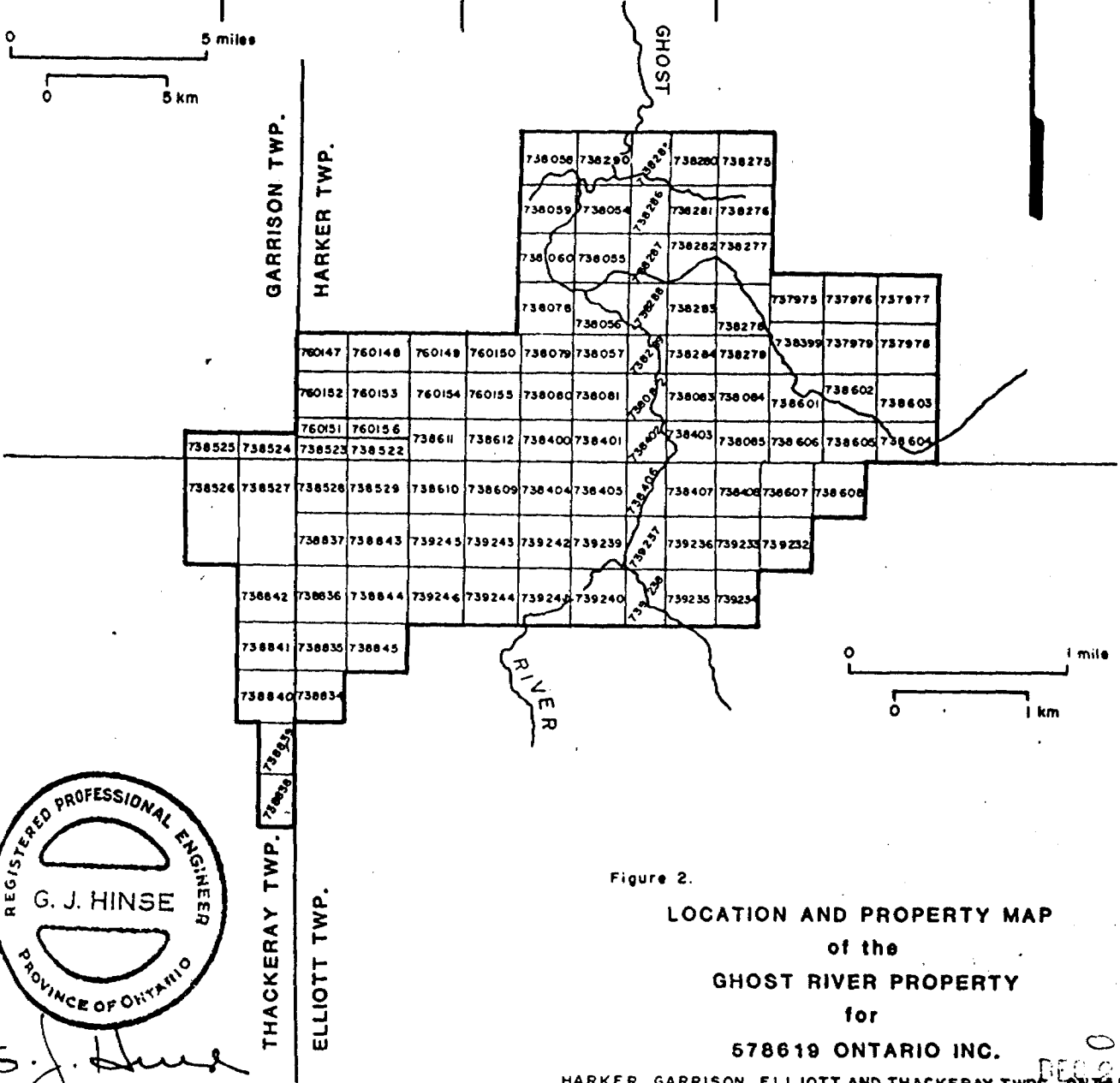
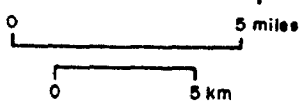
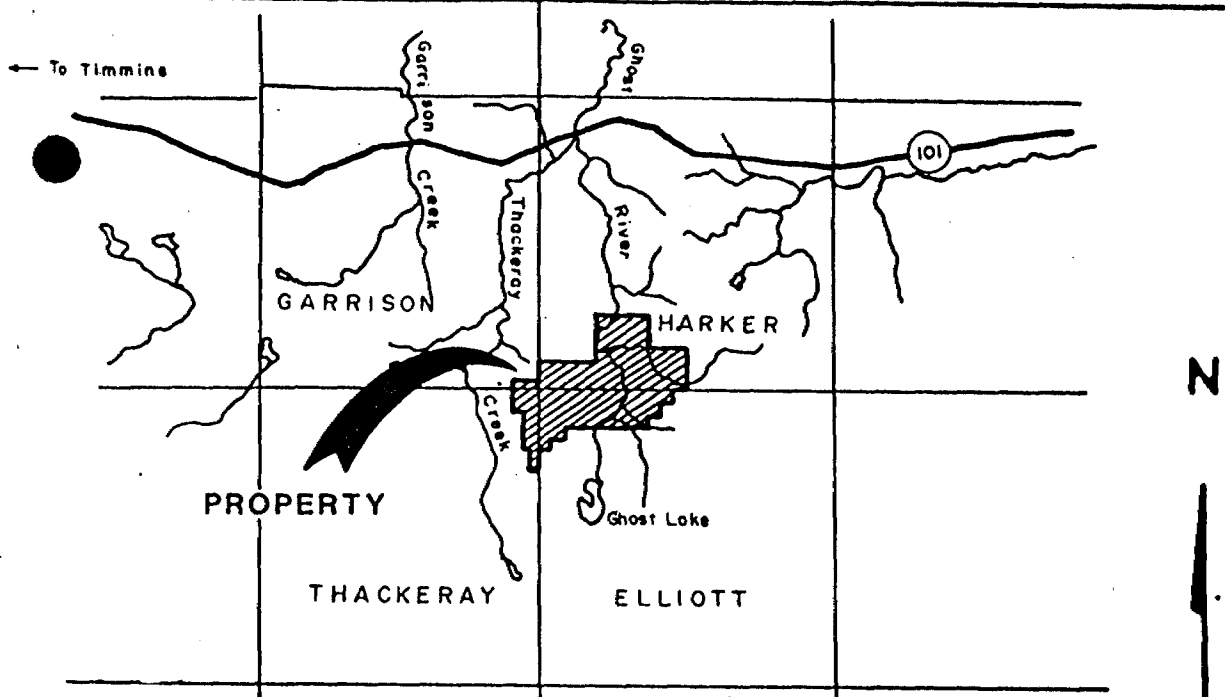
*G. J. Hinse*

G. J. HINSE MAY 1981

FIGURE 1

2 1981





*G. J. Hinse*

Figure 2.  
 LOCATION AND PROPERTY MAP  
 of the  
 GHOST RIVER PROPERTY  
 for  
 578619 ONTARIO INC.

HARKER, GARRISON, ELLIOTT AND THACKERAY TWS. ONTARIO

PREVIOUS WORK

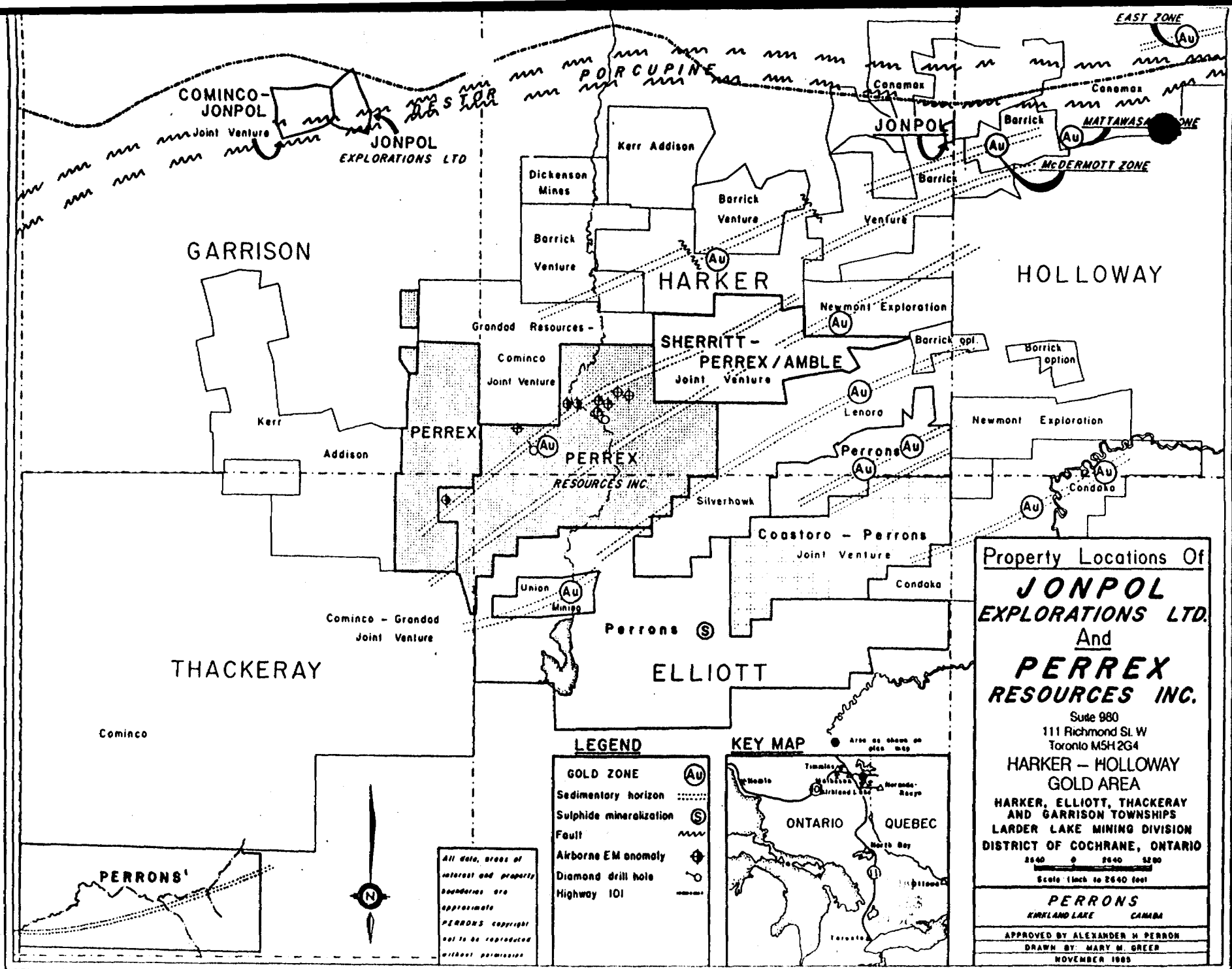
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O I I I E - P

To the immediate northeast, on the Sherritt-Perrex-Ambler property, some 34 overburden reverse circulation holes were drilled. All completed holes (33) gave up measurable gold values, the most significant of which was 35,400 ppb or approximately 1.1 ounces per ton. Induced polarization surveys, as well as magnetometer and VLF surveys have been on portions of the holdings, primarily in the vicinity of several airborne indicated anomalies (see Figure 3). Limited diamond drilling has ensued in order to test geological structure beneath a cumbersome overburden covering of most of the property; these holes have returned encouraging anomalous gold values up to .04 ounces per ton and have indicated structure significantly similar to that of the McDermott ore bearing zones.

O.W.E.P



DEC 22 1988  
 G.M.E.P.

FIGURE 3

REGIONAL GEOLOGY

Geologically the 103 Group of Perrex Resources Inc. overlies Archean rocks of the Kinojevis Group of the Abitibi Greenstone Belt within the Superior Structural Provinces. (See Figure 4 after L.S. Jensen (1986) Ontario Geol. Survey., Misc. Paper 129.)

DRILL PROGRAM 1986

Heath & Sherwood Drilling of Kirkland Lake, Ontario were contracted to penetrate the overburden and core drill bedrock using B.Q. equipment.

The following holes were drilled: (See Figure 5)

<u>Hole No.</u>	<u>Location</u>	<u>Dip</u>	<u>Brg.</u>	<u>Length</u>	<u>Remarks</u>
PX 86-1A	44W, 20N	-50°	332°	165.0'	Overburden
PX 86-1B	44W, 19N	-50°	332°	191.0'	Overburden
PX 86-1C	43+95W, 19N	-50°	332°	235.0'	Overburden
PX 86-ID	44W, 20+10 N	-65°	332°	933.0'	Overburden to 181.0'
PX 86-2	36W, 19+75 N	-65°	332°	595.0'	Overburden to 145.0'
PX 86-3	32W, 7N	-50°	332°	<u>645.0'</u>	Overburden to 174.0'
Subtotal				2,764.0'	

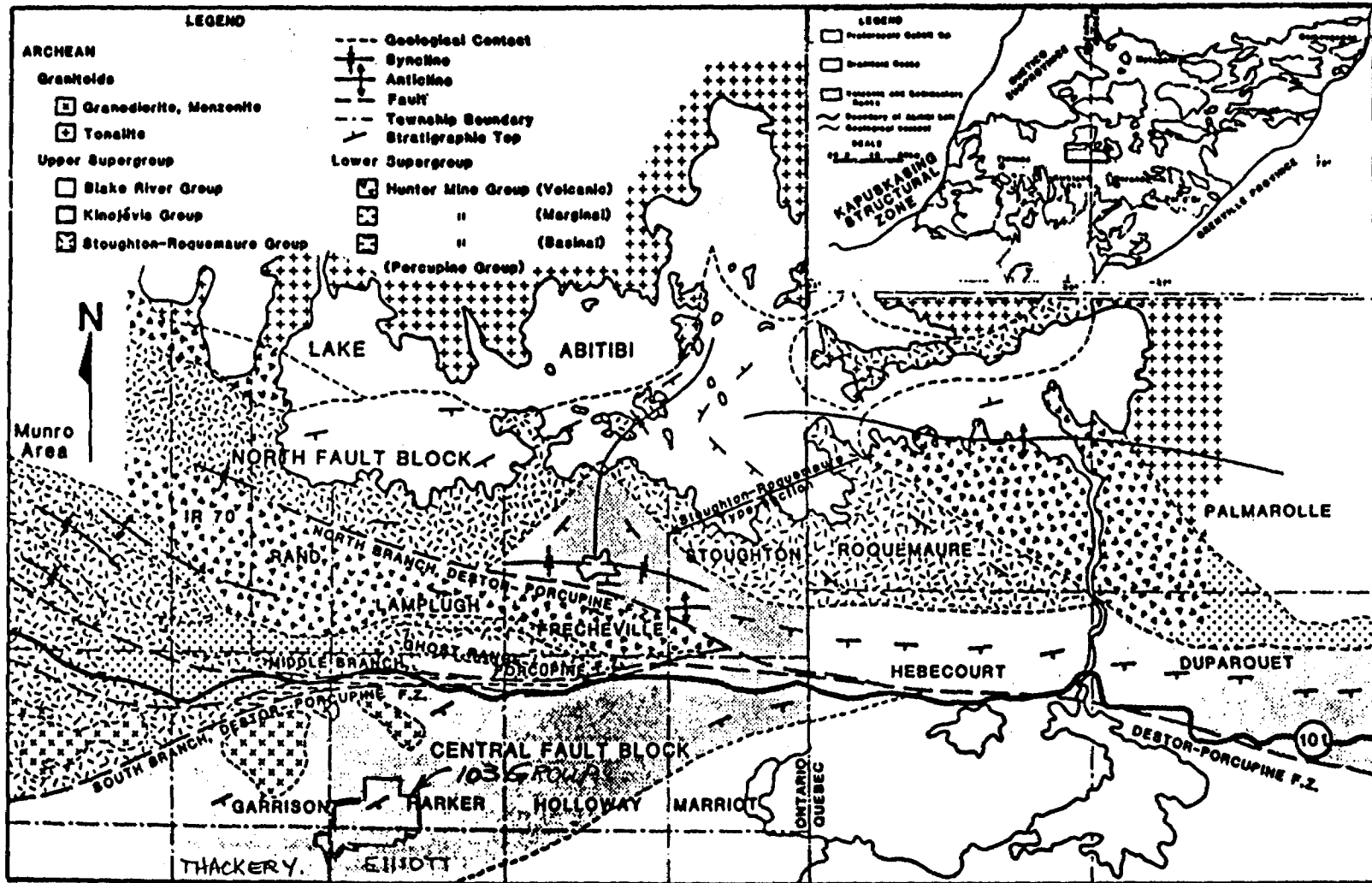
Other holes drilled but not part of O.M.E.P. Grant were:

PX 86-4	671'
PX 86-5	522'

Diamond drill holes 86-1D (933'), 86-2 (595'), 86-3 (645'), 86-4 (671') and 86-5 (522') were located in a magnetically low trough between two parallel east-northeast trending magnetically high zones.

The area drilled is devoid of outcrops; vertical depth of overburden is: Hole 86-1D, 162'; 86-2, 134'; 86-3, 135'; 86-4, 100'; and 86-5, 81'. Hole 86-1D and 86-2 drilled from station 20N on Lines 44W and 36W respectively indicate the following geological and grade correlations.

O.M.E.P.



Geological map of the Lake Abitibi area.

OMEP  
 1995

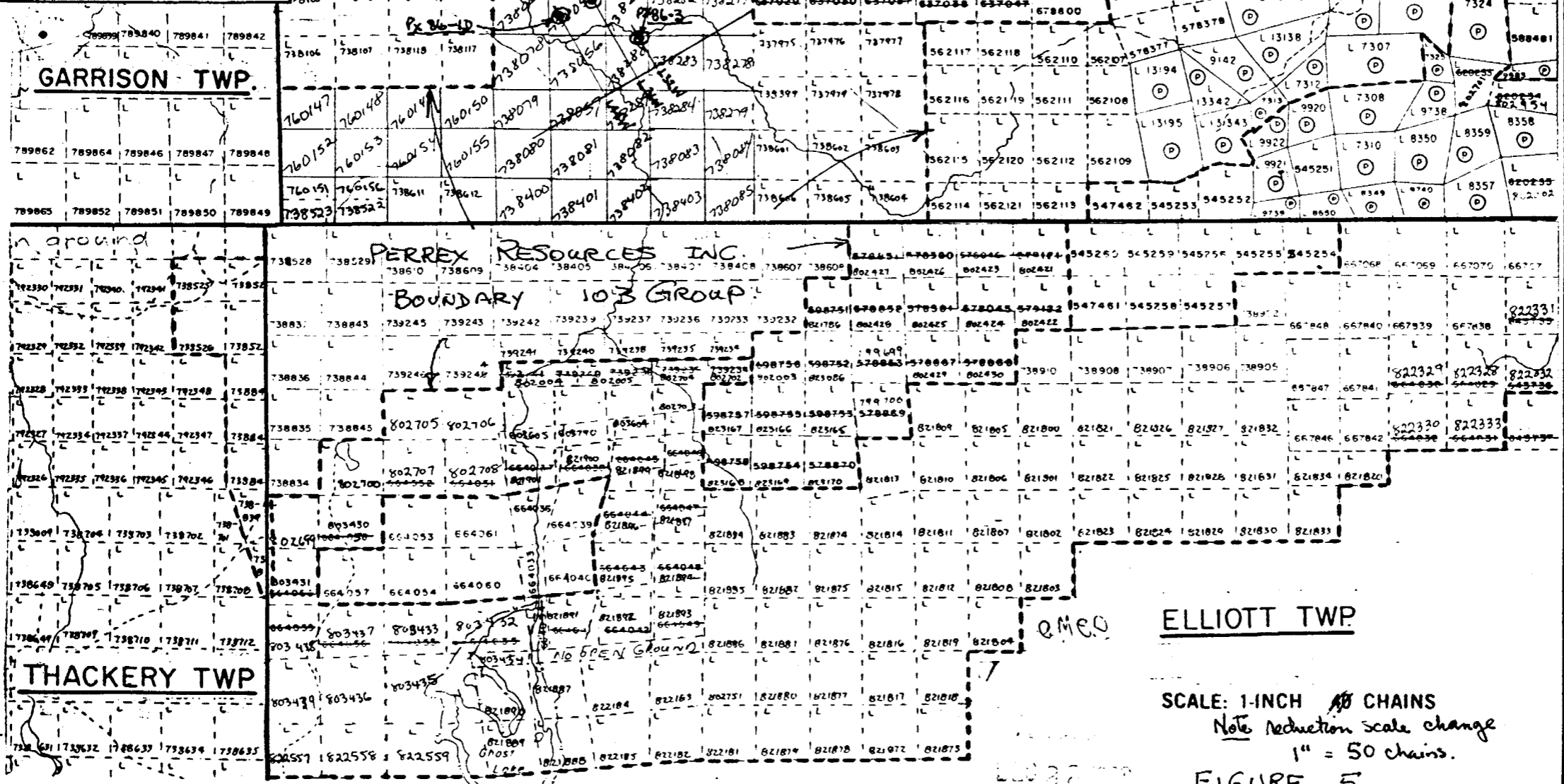
# PERREX RESOURCES INC.

## GHOST RIVER-HARKER LAKE PROPERTIES

HARKER, ELLIOTT, GARRISON AND  
THACKERAY TOWNSHIPS  
LARDER LAKE MINING DIVISION  
DISTRICT OF COCHRANE, ONTARIO

### PERRONS' INC. KIRKLAND LAKE CANADA

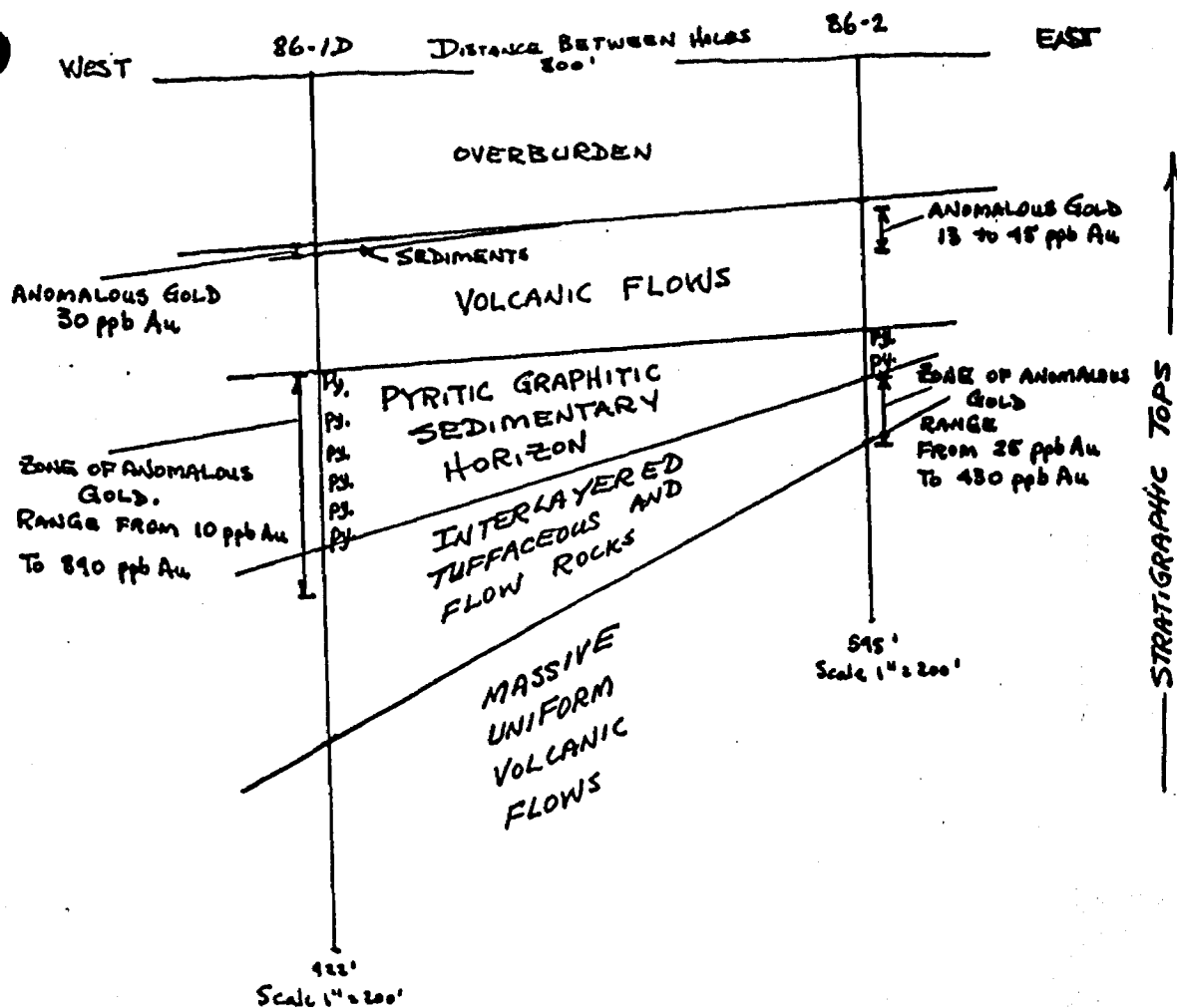
APPROVED BY: ALEX PERRON DRAWN BY: MARY GREER  
JUNE 1984



ELLIOTT TWP

SCALE: 1-INCH = 50 CHAINS  
Note reduction scale change  
1" = 50 chains.

FIGURE 5



From the above, the stratigraphy is correlatable between holes 86-ID and 86-2 with a massive flow giving way stratigraphically upwards to a sequence of tuffaceous beds and interlayered flows which in turn passes to a sedimentary basin above which flows cover the sedimentary horizon. The sedimentary horizon was originally black mud which in time became a pyritic-bearing, bedded but sheared, black argillaceous graphitic zone of metasedimentary rock.

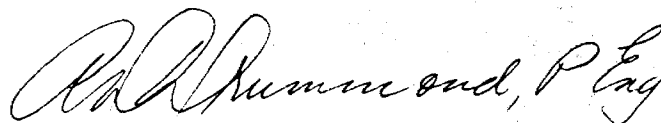
Gold values have been noted to occur within this metasedimentary interflow horizon. In general lower gold values are noted in hole 86-2 than in 86-ID. Similarly, the intersected width of the horizon is greater in hole



86-1D than in 86-2.

The above mentioned gradients in both width of pyritic horizon and more importantly, in grade of gold noted, indicate that a larger and possibly rich gold-bearing basin may be developing to the west of hole 86-1D.

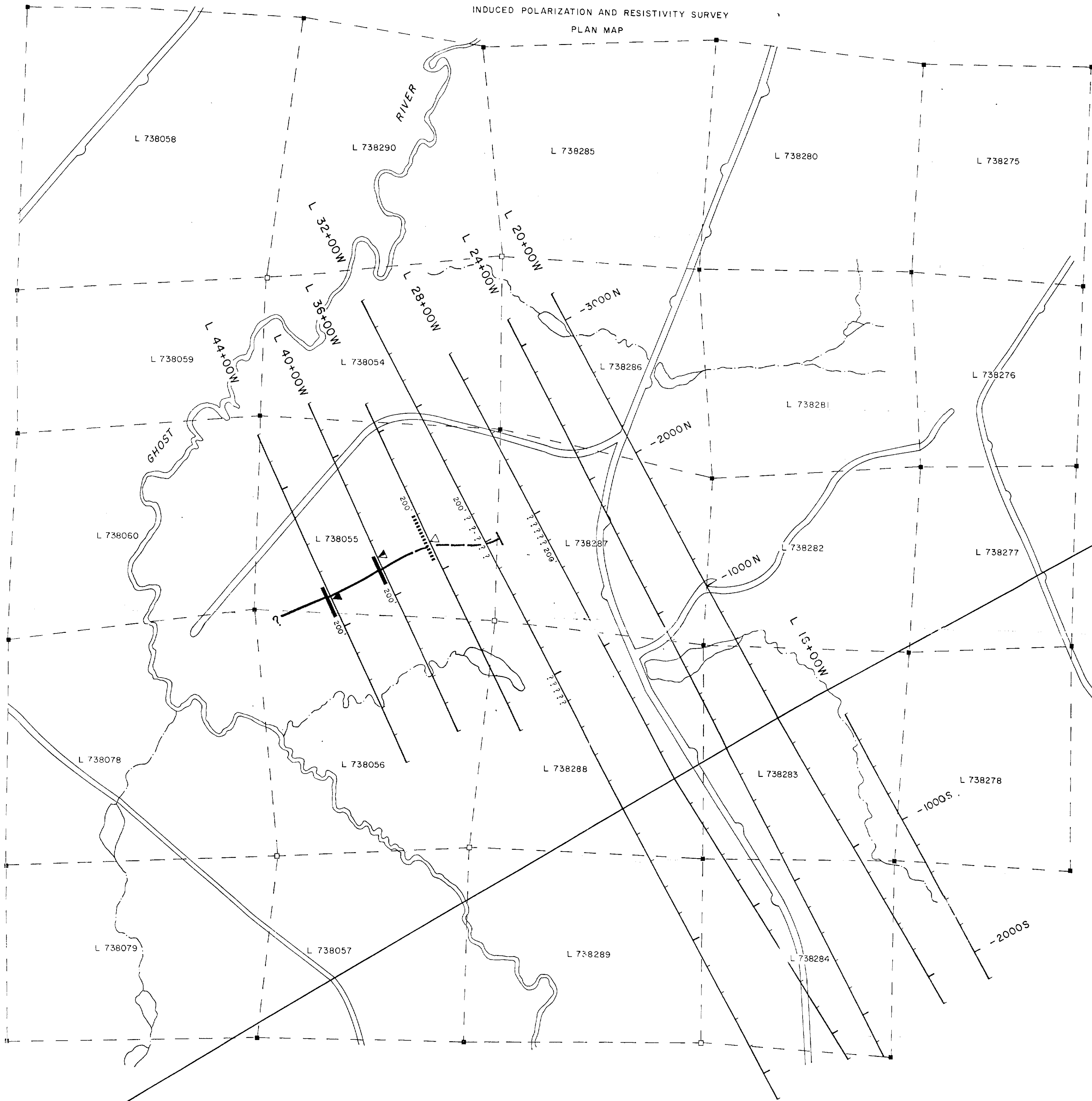
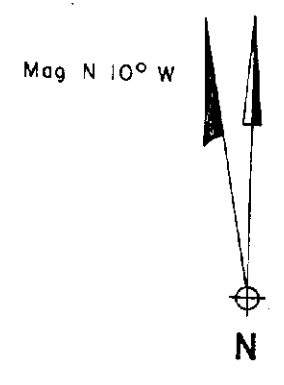
Respectfully submitted,



A. D. Drummond, Ph. D., P. Eng.

D.D.H. GEOMANAGEMENT LTD.

PHOENIX GEOPHYSICS LIMITED  
INDUCED POLARIZATION AND RESISTIVITY SURVEY  
PLAN MAP



ONTARIO GEOLOGICAL SURVEY  
ASSESSMENT FILES  
OFFICE  
JUN 6 1989  
RECEIVED

O.M.E.P.  
MINISTRY OF NATURAL  
DEVELOPMENT AND  
RECONSTRUCTION  
LARDER LAKE  
DIVISION  
DEC 22 1988

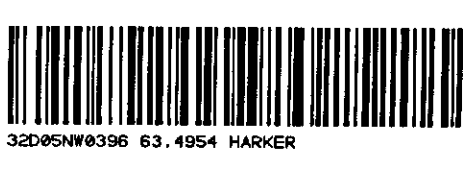
PERREX RESOURCES INC.  
HARKER TOWNSHIP  
LARDER LAKE MINING DIVISION  
DISTRICT OF COCHRANE, ONTARIO  
SCALE 1 inch to 400 feet

DRAWN: R.C.N.  
DATE: MAR 1986  
APPROVED: J.P. G. HALL  
DATE: 3/1/86  
OFFICE OF ONTARIO

0M 85-6-c-271  
63.4954

SURFACE PROJECTION  
OF ANOMALOUS ZONE  
DEFINITE   
PROBABLE   
POSSIBLE   
NUMBER AT END OF ANOMALIES  
INDICATE SPREAD USED.

AXIS OF ANOMALOUS IP ZONE   
CLAIM LINE   
CLAIM POST, located, unlocated   
STREAM



D.D.H. GEOMANAGEMENT LTD.

050



32D05NW0396 63.4954 HARKER

February 9, 1987

050

FEB 12 1987

OMEP OFFICE

Mr. Phil Hum,  
O.M.E.P.  
Ministry of Northern Development and Mines,  
Room 4650, Whitney Block,  
Queen's Park,  
Toronto, Ontario  
M7A 1W3

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<u>ELLIOTT TOWNSHIP</u>		<u>DAYS WORK COMPLETED</u>	<u>RECORDING DATES</u>
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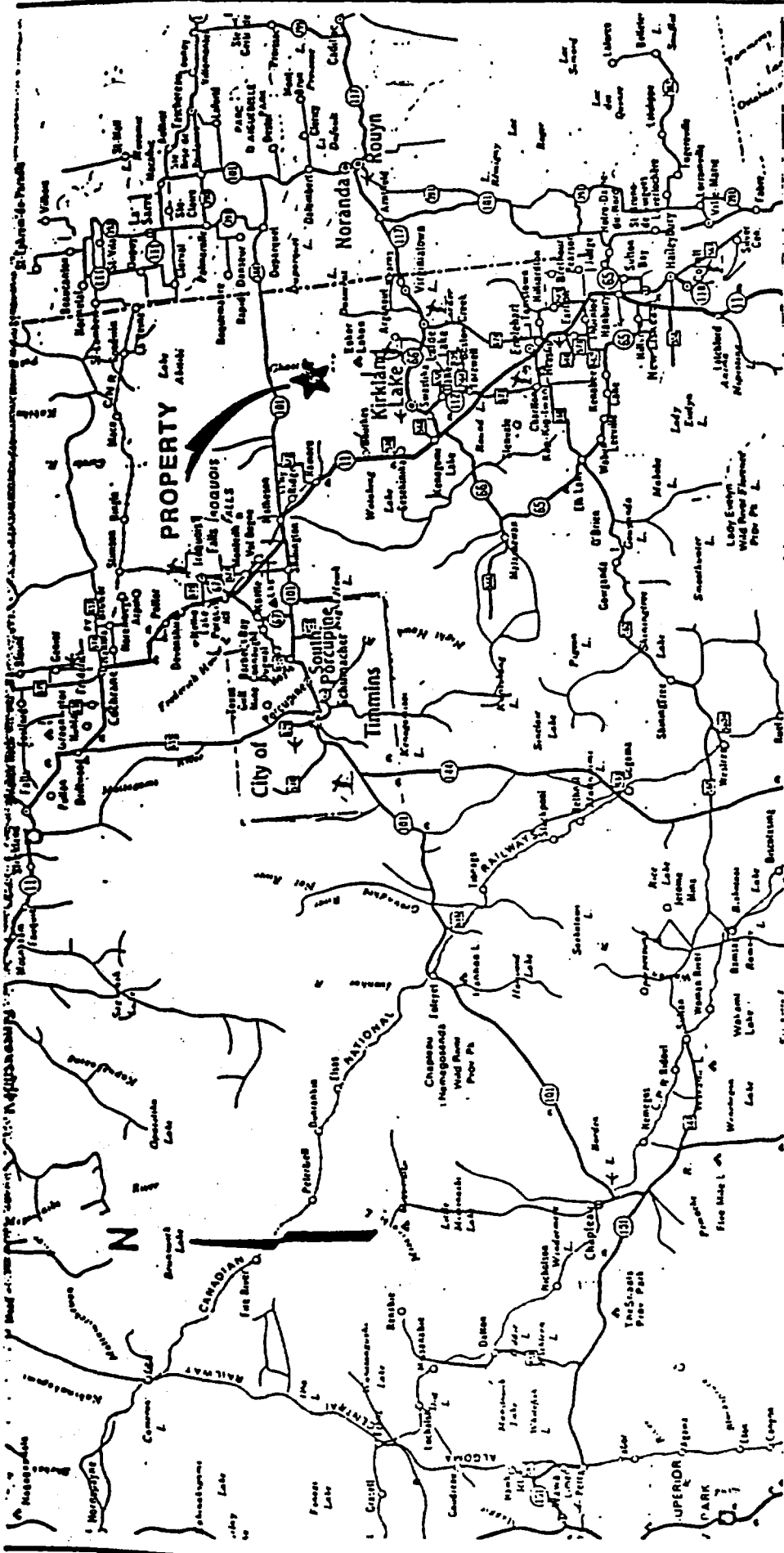


Figure 1.

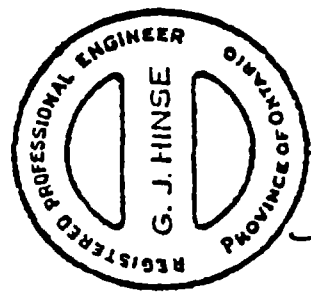
GENERAL LOCATION MAP

PERREX RESOURCES INC.

103 GROUP  
 HARKER, ELLIOTT AND THACKERY  
 10 0 40 80 120 TWPS.



FIGURE 1



*G. J. Hinse*  
 G. J. HINSE  
 MAY 1988



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Heath & Sherwood Drilling of Kirkland Lake, Ontario were contracted to penetrate the overburden and core drill bedrock using B.Q. equipment.

The following holes were drilled: (See Figure 5)

<u>Hole No.</u>	<u>Location</u>	<u>Dip</u>	<u>Brg.</u>	<u>Length</u>	<u>Remarks</u>
PX 86-1A	44W, 20N	-50°	332°	165.0'	Overburden
PX 86-1B	44W, 19N	-50°	332°	191.0'	Overburden
PX 86-1C	43+95W, 19N	-50°	332°	235.0'	Overburden
PX 86-1D	44W, 20+10 N	-65°	332°	933.0'	Overburden to 181.0'
PX 86-2	36W, 19+75 N	-65°	332°	595.0'	Overburden to 145.0'
PX 86-3	32W, 7N	-50°	332°	<u>645.0'</u>	Overburden to 174.0'
	Subtotal			2,764.0'	

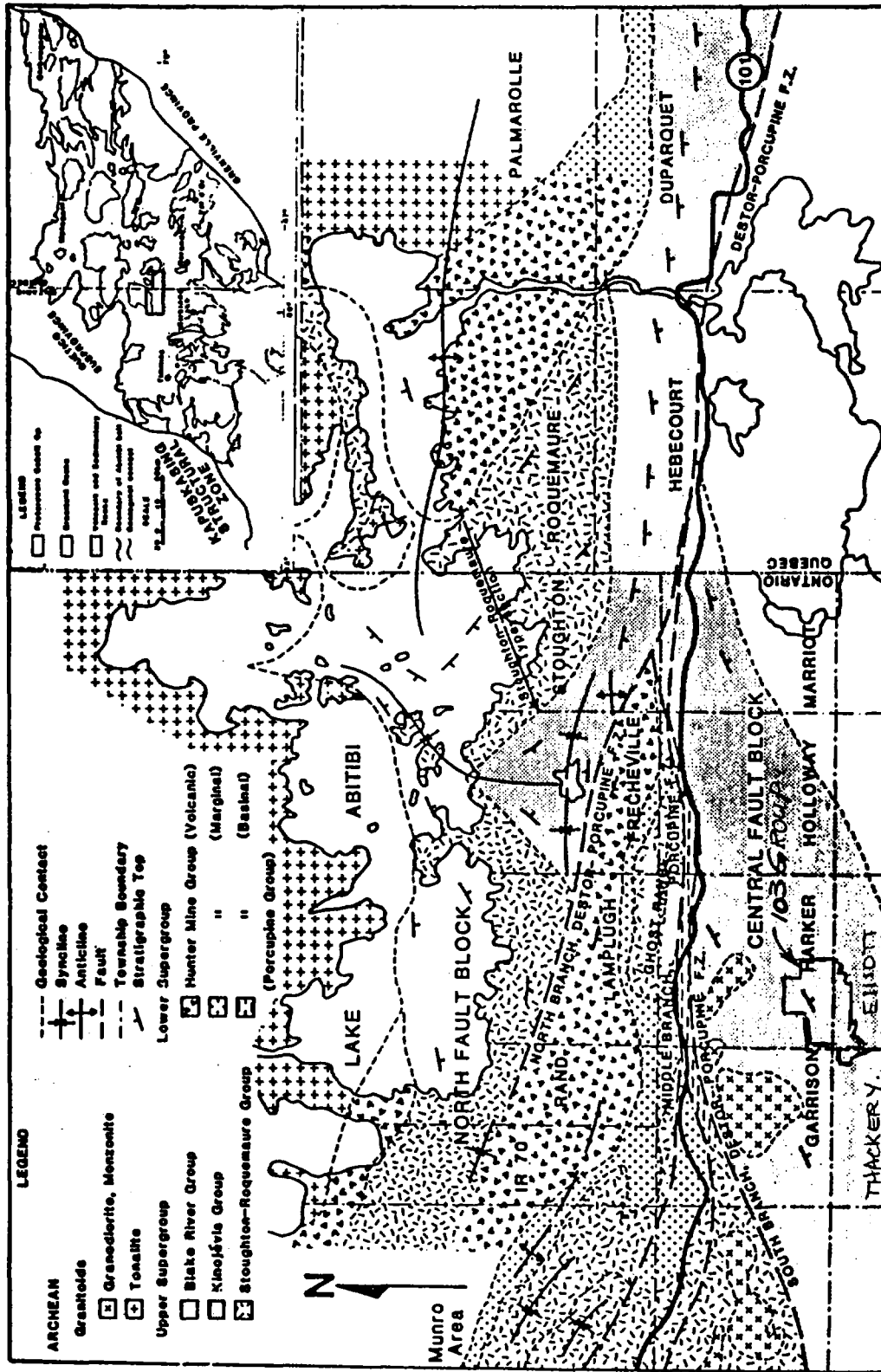
Other holes drilled but not part of O.M.E.P. Grant were:

PX 86-4	671'
* PX 86-5	522'

Diamond drill holes 86-1D (933'), 86-2 (595'), 86-3 (645'), 86-4 (671') and 86-5 (522') were located in a magnetically low trough between two parallel east-northeast trending magnetically high zones.

The area drilled is devoid of outcrops; vertical depth of overburden is: Hole 86-1D, 162'; 86-2, 134'; 86-3, 135'; 86-4, 100'; and 86-5, 81'. Hole 86-1D and 86-2 drilled from station 20N on Lines 44W and 36W respectively indicate the following geological and grade correlations.

\* Note to file - collar data is not available for this hole.



# PERREX RESOURCES INC.

## GHOST RIVER-HARKER LAKE PROPERTIES

HARKER, ELLIOTT, GARRISON AND  
THACKERAY TOWNSHIPS  
LARDER LAKE MINING DIVISION  
DISTRICT OF COCHRANE, ONTARIO

## PERRONS' INC.

KIRKLAND LAKE  
CANADA

APPROVED BY: ALEX PERRON JUNE 1984 DRAWN BY: MARY GREER

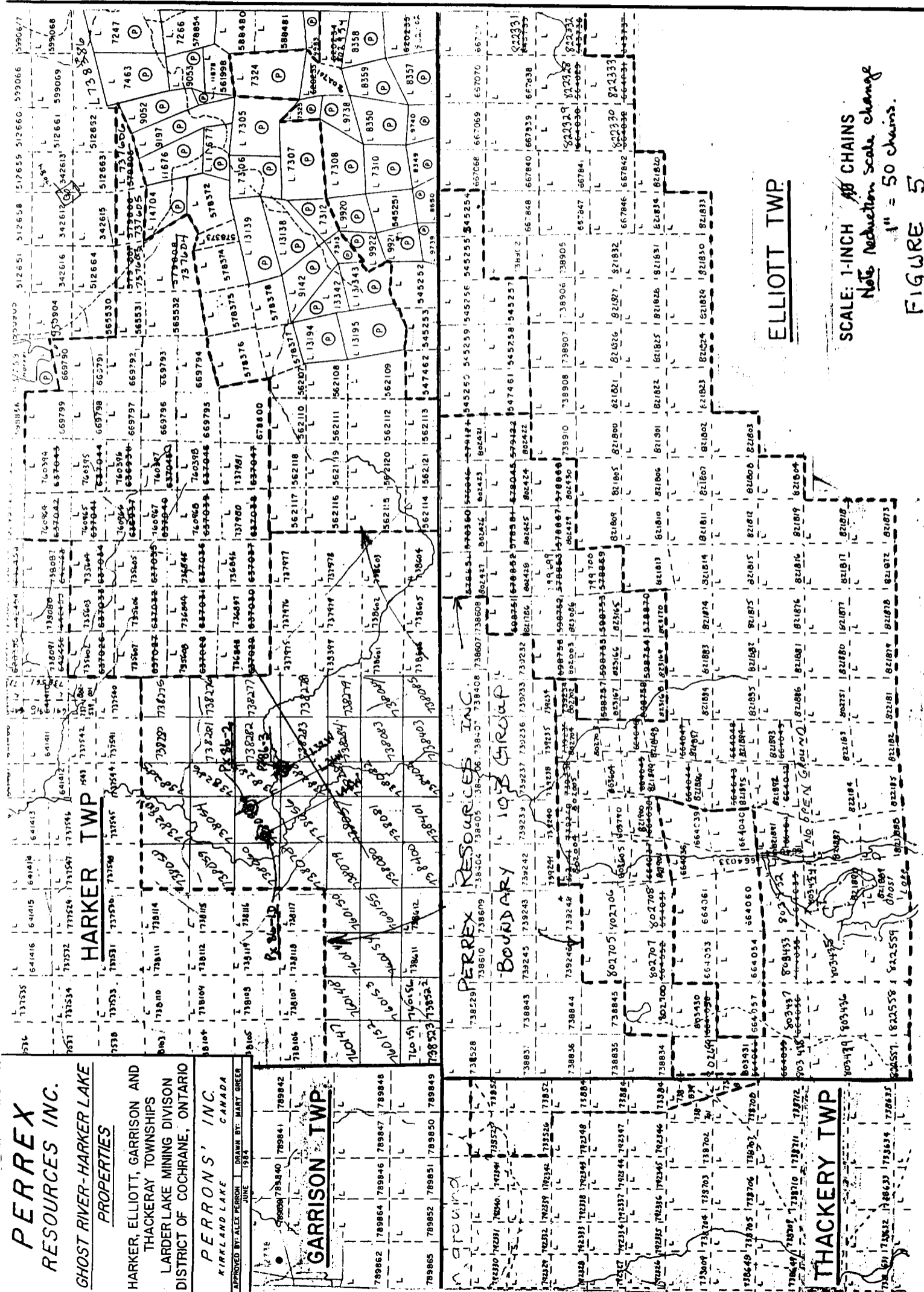
## GARRISON TWP

## THACKERY TWP

## ELLIOTT TWP

SCALE: 1-INCH = 40 CHAINS  
Note: Reduction Scale change  
1" = 50 chains.

## FIGURE 5

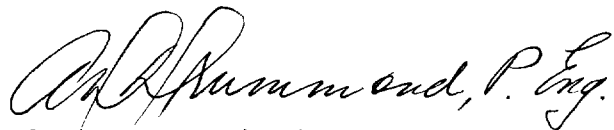




86-1D than in 86-2.

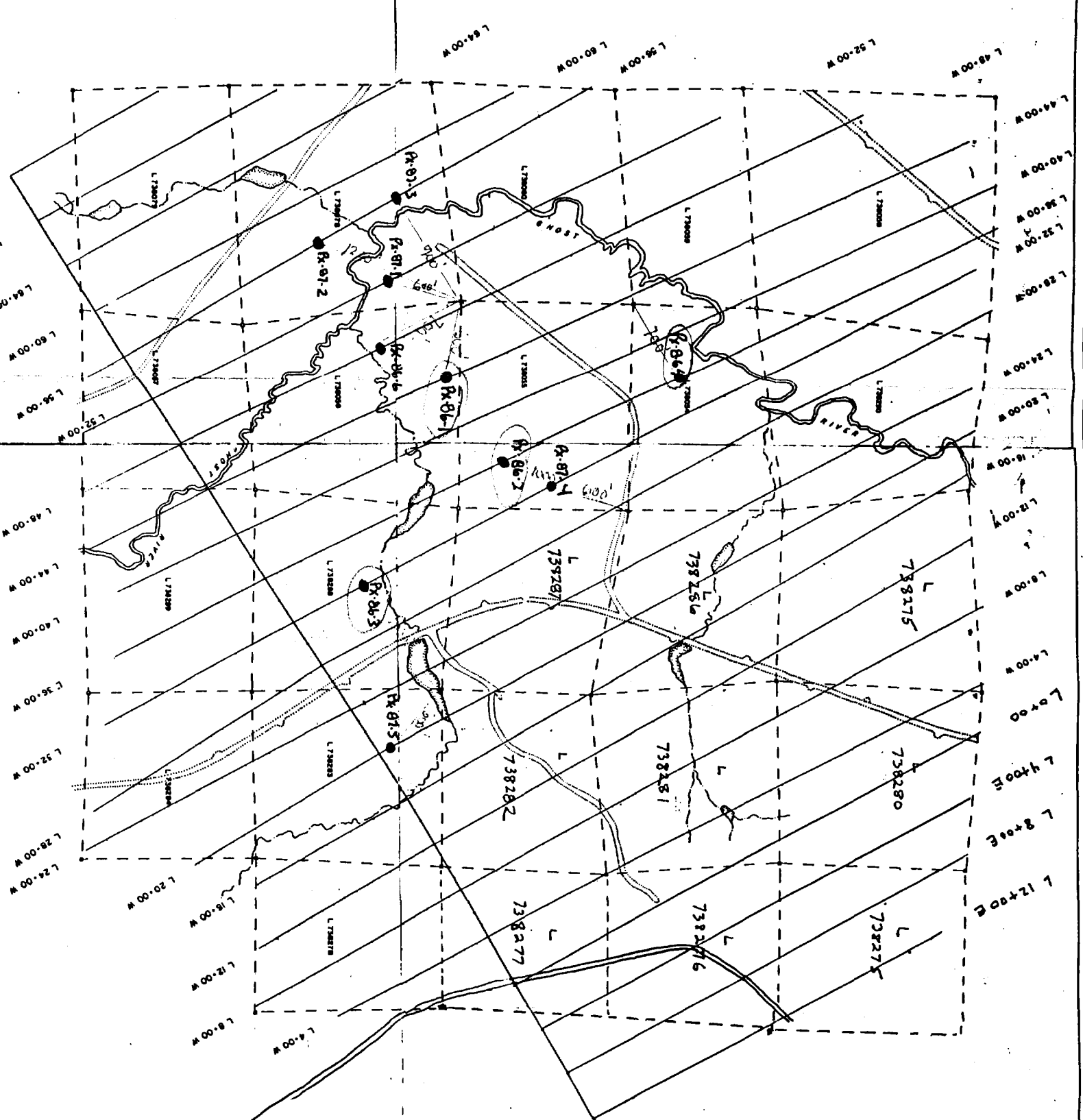
The above mentioned gradients in both width of pyritic horizon and more importantly, in grade of gold noted, indicate that a larger and possibly rich gold-bearing basin may be developing to the west of hole 86-1D.

Respectfully submitted,

A handwritten signature in cursive script that reads "A. D. Drummond, P. Eng." The signature is written in dark ink and is positioned above the printed name and title.

A. D. Drummond, Ph. D., P. Eng.

D.D.H. GEOMANAGEMENT LTD.



Location Map Showing  
Diamond Drill hole locations  
Scale 1" = 1000'

<p>KEY MAP Scale 1" = 1000'</p>	<p>PERREX RESOURCES INC./AGL ARBORNE GROUP</p> <p>SURVEY LANDS: TOWNSHIP RANGE 1 EAST, RANGE 10 NORTH DISTRICT OF COCKBURN, ONTARIO Scale: 1 inch = 200 feet Date: 1998</p> <p>PERRON'S INC.</p>	<p>PERREX RESOURCES INC./AGL ARBORNE GROUP</p> <p>SURVEY LANDS: TOWNSHIP RANGE 1 EAST, RANGE 10 NORTH DISTRICT OF COCKBURN, ONTARIO Scale: 1 inch = 200 feet Date: 1998</p> <p>PERRON'S INC.</p>	<p>PERREX RESOURCES INC./AGL ARBORNE GROUP</p> <p>SURVEY LANDS: TOWNSHIP RANGE 1 EAST, RANGE 10 NORTH DISTRICT OF COCKBURN, ONTARIO Scale: 1 inch = 200 feet Date: 1998</p> <p>PERRON'S INC.</p>	<p>PERREX RESOURCES INC./AGL ARBORNE GROUP</p> <p>SURVEY LANDS: TOWNSHIP RANGE 1 EAST, RANGE 10 NORTH DISTRICT OF COCKBURN, ONTARIO Scale: 1 inch = 200 feet Date: 1998</p> <p>PERRON'S INC.</p>	<p>PERREX RESOURCES INC./AGL ARBORNE GROUP</p> <p>SURVEY LANDS: TOWNSHIP RANGE 1 EAST, RANGE 10 NORTH DISTRICT OF COCKBURN, ONTARIO Scale: 1 inch = 200 feet Date: 1998</p> <p>PERRON'S INC.</p>
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# DIAMOND DRILL RECORD

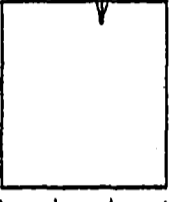
LOGGED BY D. Constable      Constable Consulting Inc.

PROPERTY Perrex Property - Harker Township 103      D.D.H. No. Px-86-1A      PAGE 1/1

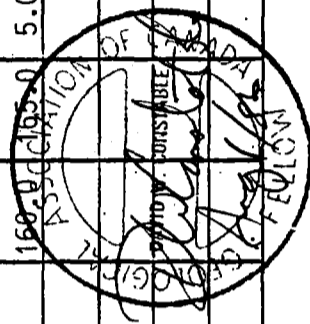
LATITUDE 44+00 W      BEARING OF HOLE STARTED April 7/86      CLAIM No. L 738056

DEPARTURE 20+00 N      DIP OF HOLE -50°      COMPLETED April 12/86      L 738055

ELEVATION 0      DIP TESTS NIL      DEPTH 165.0'      DIRECTION AND DISTANCE FROM NE. CLAIM POST



FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
				FROM	TO		AU	oz/ton
		Casing						
0.0	85.0	Clay						
85.0	160.0	Greenstone Boulders and Sand						
		Greenstone is carbonated, grey, fine-grained, soft and extremely blocky. Rock contains disseminated pyrite (1-3%) and in places shows fine bedding of sediments and contains layers of carbon-rich material. The latter rocks are frequently brecciated in macroscopic scale.						
160.0	165.0	Meta-sediments						
		Grey, fine-grained, intensely carbonated and blocky. Contains 2-5% pyrite and traces of chalcopyrite along beds and fractures. Rock is also brecciated in macro. scale.						
		Hole abandoned in AQ core due to extreme overburden depth and blocky ground.						
		End of Hole Px-86-1A is at 165.0'						







# DIAMOND DRILL RECORD

LOGGED BY D. Constable

Constable Consulting Inc.

PROPERTY Perrex Resources Inc. - Harker Twp. Property 103

D.D.H. No. Px-86-1D PAGE 1/10

LATITUDE 44+00 W BEARING OF HOLE STARTED April 19/86

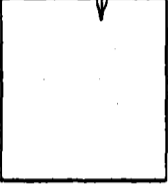
DEPARTURE 20+10 N DIP OF HOLE -65° COMPLETED April 29/86

ELEVATION - DIP TESTS -65° at 315' & 933' DEPTH 933.0'

CLAIM No. L 738056  
L 738055

DIRECTION AND DISTANCE FROM

NE. CLAIM POST



BQ Core

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
0.0	181.0						
		<i>Px-86-1D is equiv to Px-86-1 in AFR file</i>					
		lers and sand.					
		nated Sediments					
181.0	212.0						
		Alternating black and grey beds, hard, fine-grained with bedding at 40° to CA. blocky.					
		181.0 - 186.5 only 4.0' of core recovered (75 % recovery in graphitic - pyritic-quartz-veined rock (conductive).	4701	181.0	186.4	5.4	70 50
		186.5 - 191.9 grey carbonate with disseminated (1%) pyrite	4702	186.4	191.7	5.3	10
		191.9 - 194.0 black graphitic rock with 3-5% pyrite as beds and disseminates (conductive).	4703	191.7	194.1	2.4	20
		194.0 - 212.0 grey carbonated greywacke contains more silica and is harder.	4704	194.1	201.6	7.5	Nil
		Bedding is indistinct and pyrite disseminates	4705	201.6	204.8	3.2	Nil

# DIAMOND DRILL RECORD

LOGGED BY D. Constable

Constable Consulting Inc.

PROPERTY \_\_\_\_\_

D.D.H. No. Px-86-1D PAGE 2/10

LATITUDE \_\_\_\_\_ BEARING OF HOLE \_\_\_\_\_ STARTED \_\_\_\_\_

CLAIM No. \_\_\_\_\_

DEPARTURE \_\_\_\_\_ DIP OF HOLE \_\_\_\_\_ COMPLETED \_\_\_\_\_

DIRECTION AND DISTANCE FROM \_\_\_\_\_

ELEVATION \_\_\_\_\_ DIP TESTS \_\_\_\_\_ DEPTH \_\_\_\_\_

NE. CLAIM POST



BQ Core

FOOTAGE FROM	TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
				FROM	TO		AU	PGB
		(194.0 - 212.0 - continued)	4706	204.8	208.0	3.2	Nil	
		are 1% of the rock. Slight fuscitic colour to rock by 204.0'	4707	208.0	212.0	4.0	Nil	
		Pyrite decreases.						
212.0	315.1	Mafic Metasediments and Pyroclastics						
		Carbonated, grey, massive average hardness, fine-grained rock.						
		Rock also contains small angular graphitic partings and wisps comprising 3-8% of the rock.						
		At 211.0' bedding is at 32° to CA.						
		By 212.0' rock shows characteristics of tuffs and pyroclastics	4708	212.0	218.3	6.3	Nil	
		(Mafic). Pyrite is almost completely absent. All the rock is	4709	218.3	222.0	3.7	Nil	
		carbonated. Rock changes are subtle and gradational.	4710	222.0	225.0	3.0	Nil	
		Pyrite is absent except for rare isolated crystals. Graphitic	4711	225.0	229.7	4.7	Nil	
		wisps are still present as well as a poorly preserved bedding and	4712	229.7	233.1	3.4	Nil	
		possible fragments. Narrow erratic, unmineralized white quartz veins	4713	233.1	236.0	2.9	Nil	
		were observed at 274.5' (7"), 287.8'(2") and 288.5'(3"). In addition,	4714	236.0	240.0	4.0	Nil	
		hairline irregular fracture fillings of quartz are also noted composing	4738	240.0	247.7	7.7	Nil	

# DIAMOND DRILL RECORD

LOGGED BY D. Constable

Constable Consulting Inc.

PROPERTY \_\_\_\_\_

LATITUDE \_\_\_\_\_ BEARING OF HOLE \_\_\_\_\_ STARTED \_\_\_\_\_

DEPARTURE \_\_\_\_\_ DIP OF HOLE \_\_\_\_\_ COMPLETED \_\_\_\_\_

ELEVATION \_\_\_\_\_ DIP TESTS \_\_\_\_\_

DEPTH \_\_\_\_\_

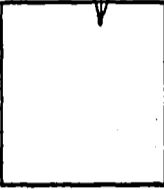
BQ Core

D.D.H. No. Px-86-1D PAGE 3/10

CLAIM No. \_\_\_\_\_

DIRECTION AND DISTANCE FROM \_\_\_\_\_

NE. CLAIM POST



SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY
	FROM	TO		
4739	247.7	251.6	3.9	10
4740	251.6	255.0	3.4	Nil
4741	255.0	259.0	4.0	Nil
4742	259.0	263.0	4.0	Nil
4743	263.0	267.6	4.6	Nil
4744	267.6	270.0	2.4	Nil
4745	270.0	274.1	4.1	10
4746	274.1	277.6	3.5	Nil
4747	277.6	281.5	4.9	Nil
4748	281.5	285.0	3.5	Nil
4749	285.0	288.9	3.9	Nil
4750	288.9	293.0	4.1	Nil
4751	293.0	296.0	3.0	Nil
4752	296.0	299.7	3.7	Nil
4753	299.7	303.6	3.9	Nil
4754	303.6	307.6	4.0	10
4755	307.6	311.9	4.3	Nil
4756	311.9	315.0	3.1	Nil

<1% of the unit.

From 298.0' onwards erratic white quartz veins increase and by 307.5' rock becomes distinctly grey-brown in colour and pyrite content increases to 1% disseminates in section 311.9 - 315.1'.

# DIAMOND DRILL RECORD

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PROPERTY \_\_\_\_\_

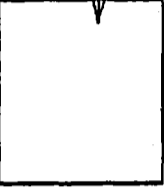
D.D.H. No. Px-86-1D PAGE 4/10

LATITUDE \_\_\_\_\_ BEARING OF HOLE \_\_\_\_\_ STARTED \_\_\_\_\_

DEPARTURE \_\_\_\_\_ DIP OF HOLE \_\_\_\_\_ COMPLETED \_\_\_\_\_

ELEVATION \_\_\_\_\_ DIP TESTS \_\_\_\_\_ DEPTH \_\_\_\_\_

BQ Core



CLAIM No. \_\_\_\_\_

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE FROM	TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	AU	DDO	ASSAY
				FROM	TO				
315.1	346.2	Black Graphitic Sediments							
		Blocky, black, silicified and quartz veined containing 1-4% pyrite as beds and disseminates. Bedding is at 48° to CA.	4720	315.0	318.0	3.0	Nil		
			4721	318.0	321.4	3.4	10		
			4722	321.4	325.0	3.6	10		
			4723	325.0	328.9	3.9	10		
			4724	328.9	333.6	4.7	Nil		
			4716	333.6	336.6	3.0	20		
			4717	336.6	341.7	5.1	10		
			4718	341.7	346.3	4.6	30 20		
346.2	485.6	Carbonated Mafic Metasediments and Pyroclastics							
		Starts out grey-brown then gradually becomes greener. Average hardness, fine-grained, blocky. Contains graphitic conformable pyritic beds from 373.1' to 374.8' and 395.2' to 396.5'. Rock also contains good bedding at 32° to CA and irregularly-distributed pyrite crystals disseminated throughout the rock.	4719	346.3	352.0	5.7	Nil		
			4757	352.0	356.0	4.0	Nil		
			4758	356.0	358.4	2.4	Nil		
			4759	358.4	361.5	3.1	Nil		
			4760	361.5	365.0	3.5	20 Nil		
		Grain size and textures change throughout this section from fine- to-medium-grained and from well-bedded to unbedded.	4761	365.0	368.9	3.9	Nil		
			4715	368.9	370.8	1.9	Nil		

# DIAMOND DRILL RECORD

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Constable Consulting Inc.

PROPERTY \_\_\_\_\_

LATITUDE \_\_\_\_\_ BEARING OF HOLE \_\_\_\_\_ STARTED \_\_\_\_\_

DEPARTURE \_\_\_\_\_ DIP OF HOLE \_\_\_\_\_ COMPLETED \_\_\_\_\_

ELEVATION \_\_\_\_\_ DIP TESTS \_\_\_\_\_ DEPTH \_\_\_\_\_

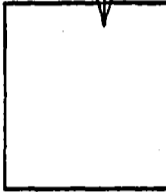
B.Q. Core

D.D.H. No. Px-86-1D PAGE 5/10

CLAIM No. \_\_\_\_\_

DIRECTION AND DISTANCE FROM

NE. CLAIM POST



SAMPLE No.	FOOTAGE		FOOTAGE FROM TO	SAMPLE LENGTH	AU	DOB	ASSAY
	FROM	TO					
4762	370.8	375.0	4.2	10			
4763	375.0	378.8	3.8	Nil			
4764	378.8	381.7	2.9	Nil			
4765	381.7	385.0	3.3	Nil			
4766	385.0	389.1	4.1	Nil			
4767	389.1	392.7	3.6	Nil			
4768	392.7	394.6	1.9	Nil			
4769	394.6	396.5	1.9	20			
4770	396.5	399.9	3.4	Nil			
4771	399.9	405.0	5.1	20			
4772	405.0	408.8	3.8	10			
4773	408.8	413.0	4.2	Nil			
4774	413.0	416.8	3.8	Nil			
4775	416.8	421.6	4.8	10			
4776	421.6	423.4	1.8	Nil			
4777	423.4	425.6	2.2	Nil			
4778	425.6	428.0	2.4	Nil			



# DIAMOND DRILL RECORD

LOGGED BY D. Constable

Constable Consulting Inc.

PROPERTY \_\_\_\_\_

LATITUDE \_\_\_\_\_ BEARING OF HOLE \_\_\_\_\_ STARTED \_\_\_\_\_

DEPARTURE \_\_\_\_\_ DIP OF HOLE \_\_\_\_\_ COMPLETED \_\_\_\_\_

ELEVATION \_\_\_\_\_ DIP TESTS \_\_\_\_\_ DEPTH \_\_\_\_\_

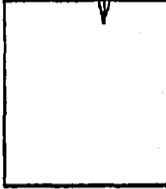
BQ Core

D. D. H. No. Px-86-1D PAGE 6/10

CLAIM No. \_\_\_\_\_

DIRECTION AND DISTANCE FROM

NE. CLAIM POST



SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY
	FROM	TO		
4779	428.0	432.4	4.4	Nil
4780	432.4	437.0	4.6	Nil
4781	437.0	442.0	5.0	Nil
4782	442.0	445.0	3.0	Nil
4783	445.0	448.8	3.8	Nil
4784	448.8	452.7	4.9	Nil
4785	452.7	457.5	4.8	Nil
4786	457.5	462.3	4.8	Nil
4787	462.3	466.6	4.3	Nil
4725	469.2	471.3	2.1	20
4726	471.3	472.0	0.7	Nil
4727	472.0	475.0	3.0	20
4728	475.0	479.5	4.5	140 100
4795	629.9	634.4	4.5	60
4796	636.4	640.5	4.1	10
4729	479.5	480.7	1.2	Nil
4730	480.7	485.6	4.9	Nil

At 444.3' a 2" - wide quartz-carbonate vein contains 1/2" chalcopyrite crystals.

From 466.3 - 485.6' rock becomes intensely carbonated and pyritized (3-5%) as beds and disseminated. Rock also becomes criss-crossed by conformable and unconformable white quartz-carbonate veinlets comprising 15 to 100% of the rock.

Conformable OUT Contact at 32° to CA.

# DIAMOND DRILL RECORD

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Constable Consulting Inc.

PROPERTY \_\_\_\_\_

D.D.H. No. Px-86-1d

PAGE 7/10

LATITUDE \_\_\_\_\_ BEARING OF HOLE \_\_\_\_\_ STARTED \_\_\_\_\_

DEPARTURE \_\_\_\_\_ DIP OF HOLE \_\_\_\_\_ COMPLETED \_\_\_\_\_

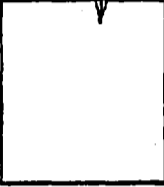
ELEVATION \_\_\_\_\_ DIP TESTS \_\_\_\_\_ DEPTH \_\_\_\_\_

BQ Core

CLAIM No. \_\_\_\_\_

DIRECTION AND DISTANCE FROM

NE. CLAIM POST



FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Au Dpb	ASSAY	
FROM	TO			FROM	TO				
485.6	501.0	Black Graphitic Metasediment							
		Black, blocky, soft and well-bedded, fine-grained and, in macro-scale, brecciated. Contains 3% pyritic beds and disseminated graphite is intercalated with brown pyritized argillite and, in detail, even chert.	4731	485.6	489.1	3.5	50		
		So at 33° to CA.	4732	489.1	493.0	3.9	30		
		Conformable OUT Contact.	4733	493.0	497.0	4.0	60		
			4734	497.0	501.0	4.0	30		
501.0	699.0	Carbonated Metasediments and Pyroclastics							
		Green, soft, fine-grained and of variable texture. Contains irregular white quartz-carbonate veinlets and only traces of disseminated pyrite.	4735	501.0	502.9	1.9	Nil		
			4736	502.9	505.1	2.2	Nil		
			4737	505.1	511.2	6.1	30		
			4788	511.2	515.0	3.8	Nil		
			4789	515.0	518.9	3.9	Nil		
			4790	518.9	522.3	3.4	Nil		
		Rock becomes more brecciated by 523.0' and shows signs of flow-top textures.	4791	522.3	525.9	3.6	60		

# DIAMOND DRILL RECORD

LOGGED BY D. Constable

Constable Consulting Inc.

PROPERTY \_\_\_\_\_

LATITUDE \_\_\_\_\_ BEARING OF HOLE \_\_\_\_\_ STARTED \_\_\_\_\_

DEPARTURE \_\_\_\_\_ DIP OF HOLE \_\_\_\_\_ COMPLETED \_\_\_\_\_

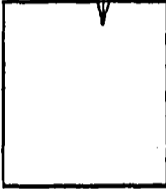
ELEVATION \_\_\_\_\_ DIP TESTS \_\_\_\_\_ DEPTH \_\_\_\_\_

D.D.H. No. PX-86-1D PAGE 8/10

CLAIM No. \_\_\_\_\_

DIRECTION AND DISTANCE FROM \_\_\_\_\_

NE. CLAIM POST



BQ Core

FOOTAGE FROM	TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Au pph	ASSAY
				FROM	TO			
		From 540.0 - 624.0' rock has sub-rounded carbonate-filled remnants of vesicles, then goes into a featureless homogenous mafic flow.						
		At 555.2 a 6" white quartz vein contains pyrite and minor hematite staining. Another 2" - wide quartz vein is observed at 574.6'.	4792	555.4	555.9	0.5	990	
		By 624.0' wisps of pyroclastic-sedimentary beds are present and the flow texture is finer-grained and in places brecciated with coarse to medium-grained pyrite crystals comprising up to 2% of the rock.	4793	621.2	622.7	1.5	30	
		White quartz-carbonate veins with traces of pyrite plus chalcopyrite are from 621.0 - 622.4' and from 626.9 - 627.8'.	4794	626.2	628.1	1.9	70	
		From 639.0 - 647.0' Rock becomes brecciated and altered (flow top (?) with 1% disseminated pyrite.	4795	629.9	634.4	4.5	60	
		From 647.0 - 664.0' sub-rounded carbonate-filled vesicles in a mafic flow rock. Then back into metasediments and pyroclastics.	4796	636.4	640.5	4.1	10	
		From 683.0 - 689.3' mafic flow texture with conformable gradational contact to bedded units.						

# DIAMOND DRILL RECORD

LOGGED BY D. Constable

Constable Consulting Inc.

PROPERTY \_\_\_\_\_

LATITUDE \_\_\_\_\_

DEPARTURE \_\_\_\_\_

ELEVATION \_\_\_\_\_

BEARING OF HOLE \_\_\_\_\_

STARTED \_\_\_\_\_

DIP OF HOLE \_\_\_\_\_

COMPLETED \_\_\_\_\_

DIP TESTS \_\_\_\_\_

DEPTH \_\_\_\_\_

BQ Core

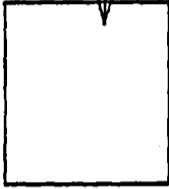
D.D.H. No. PX-86-1D

PAGE 9/10

CLAIM No. \_\_\_\_\_

DIRECTION AND DISTANCE FROM \_\_\_\_\_

NE. CLAIM POST \_\_\_\_\_



FOOTAGE FROM	TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY
				FROM	TO		
		At 692.5 a small bleb of chalcopyrite.					
699.0	933.0	Mafic (Mg - Tholeiitic) Flow					
		Green, massive, soft, slightly carbonated, low magnetic susceptibility, medium-grained and homogenous except for irregular quartz-carbonate veinlets. Trace to nil sulfides.					
		Gradational IN Contact, then from 715.0 - 725.0' gradually increasing grain size until a nearly intrusive (Dioritic) texture.					
		From 742.3 - 743.2' and from 747.5 - 750.5' quartz-carbonate filled shear zones with 1% pyrite.	4797	742.6	745.9	3.3	20
		Again a quartz-carbonate-filled shear zone from 755.4 - 757.3' and from 758.6 - 759.0' (minor chalcopyrite) and from 763.8 - 764.3'.	4798	745.9	750.5	4.6	10
		From 787.6 - 788.5 white quartz-carbonate vein lined with chlorite.	4799	755.4	757.4	2.0	Nil
		From 847.0 onwards vesicles are filled with a mixture of quartz and chlorite and appear black.	4800	758.6	759.0	0.4	Nil
			4501	763.7	764.2	0.5	Nil



# DIAMOND DRILL RECORD

LOGGED BY D. Constable

Constable Consultant Inc.

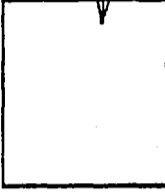
PROPERTY Perrex Resources Inc.-Harker Township Property 103

D.D.H. No. Px-86-2 PAGE 1/7

LATITUDE 36 + 00 W BEARING OF HOLE (Ast.) STARTED April 29/86

DEPARTURE 19 + 75 N DIP OF HOLE -65° COMPLETED May 7, 1986

ELEVATION Ø DIP TESTS -63° at 150' DEPTH 595.0'



CLAIM No. L 738055

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

BQ Core

FOOTAGE FROM	TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY
				FROM	TO		
0.0	145.0	Casing					
		0' - 72.0' Clay					
		72.0' - 145.0' Boulders and Sand					
145.0	400.0	Mafic Metasediments and Pyroclastics					
		Dark Green, average hardness, with fragments and beds(?) at 48 ° to	4522	145.7	147.0	1.3	Nil
		CA. Rock is extremely chloritic and carbonated. Contains trace to	4523	147.0	150.9	3.9	10
		1% disseminated pyrite and 2% fine irregular white quartz-carbonate vein-	4524	150.9	154.2	3.3	Nil
		lets.	4525	154.2	157.1	2.9	Nil
			4526	157.1	159.6	2.5	Nil
			4527	159.6	161.4	1.8	Nil
			4528	161.4	165.0	3.6	30
			4529	165.0	167.9	2.9	70/90
			4530	167.9	171.4	3.5	Nil
			4531	171.4	173.5	2.1	Nil

# DIAMOND DRILL RECORD

LOGGED BY D. Constable

Constable Consultant Inc.

PROPERTY \_\_\_\_\_

D.D.H. No. PX-86-2

PAGE 2/7

LATITUDE \_\_\_\_\_

BEARING OF HOLE \_\_\_\_\_

STARTED \_\_\_\_\_

DEPARTURE \_\_\_\_\_

DIP OF HOLE \_\_\_\_\_

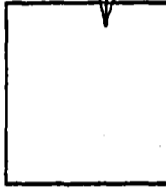
COMPLETED \_\_\_\_\_

ELEVATION \_\_\_\_\_

DIP TESTS \_\_\_\_\_

DEPTH \_\_\_\_\_

BQ Core



CLAIM No. \_\_\_\_\_

DIRECTION AND DISTANCE FROM \_\_\_\_\_

NE. CLAIM POST

SAMPLE No.	FOOTAGE		DESCRIPTION	SAMPLE LENGTH	AU	DDI	ASSAY
	FROM	TO					
4532	173.5	177.3	From 173.3 - 177.1 graphitic-matrix-breccia with green metaseds.	3.8	Nil		
4533	177.3	181.5	as fragments. Contains 1-2% pyrite disseminates. Poor conduction.	4.2	Nil		
4534	181.5	183.1		1.6	Nil		
4536	186.7	189.9		3.2	Nil		
4537	189.9	192.1		2.2	10		
4538	192.1	194.5	From 190.3 - 194.6' Graphitic beds and matrix for breccia zone	2.4	Nil		
4539	194.5	197.1	contains both pyritic beds and disseminated pyrite (2%) as well as quartz veins with green metaseds. as fragments. So at 50° to CA. Poor conductor.	2.6	Nil		
4540	197.1	199.4	From 196.7 - 198.9' Graphitic Unit with fragments of green metased.	2.3	Nil		
4541	199.4	203.3		3.9	10		
4542	203.3	206.8		3.5	10		
4543	206.8	210.0		3.2	20		
4544	210.0	213.5		3.5	10		
4545	213.5	216.7		3.2	Nil		
4546	216.7	220.0		3.3	Nil		
4547	220.0	224.0		4.0	Nil		

# DIAMOND DRILL RECORD

LOGGED BY D. Constable

Constable Consultant Inc.

PROPERTY \_\_\_\_\_

LATITUDE \_\_\_\_\_ BEARING OF HOLE \_\_\_\_\_

DEPARTURE \_\_\_\_\_ DIP OF HOLE \_\_\_\_\_ STARTED \_\_\_\_\_

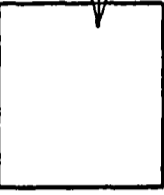
ELEVATION \_\_\_\_\_ DIP TESTS \_\_\_\_\_ COMPLETED \_\_\_\_\_ DEPTH \_\_\_\_\_

D.D.H. No. Px-86-2 PAGE 3/7

CLAIM No. \_\_\_\_\_

DIRECTION AND DISTANCE FROM

NE. CLAIM POST



SAMPLE No.	FOOTAGE		DESCRIPTION	SAMPLE LENGTH	AU	DDB	ASSAY
	FROM	TO					
4548	224.0	225.6	From 224.0 - 233.8' Conformable Graphitic breccia unit. Fair	1.6	Nil		
4549	225.6	230.0	conduction	4.4	Nil		
4550	230.0	233.8		3.8	Nil		
4551	233.8	236.6		2.8	Nil		
4552	236.6	241.0	From 235.1 - 236.5 Graphitic breccia again.	4.4	Nil		
4553	241.0	244.0		3.0	Nil		
4554	244.0	247.1		3.1	Nil		
4555	247.1	250.4		3.3	Nil/Nil		
4556	250.4	255.0		4.6	Nil		
4557	255.0	259.9		4.9	Nil		
			From 145.0 - 250.0' there are small areas of purple colour and above average silicification for example from 233.8 - 235.1' and from 236.5 to 244.0'				
4558	259.9	263.0	Silica floods with purple colour and pyrite (1-2%) from 260.5 to	3.1	Nil		
4559	263.0	264.6	262.8', 264.4 to 267.7, 271.9 to 274.4', 283.3 to 284.5'	1.6	Nil		
4560	264.6	267.7		3.1	Nil		



# DIAMOND DRILL RECORD

LOGGED BY D. Constable

Constable Consultant Inc.

PROPERTY \_\_\_\_\_

D.D.H. No. Px-86-2 PAGE 4/7

LATITUDE \_\_\_\_\_

BEARING OF HOLE \_\_\_\_\_

STARTED \_\_\_\_\_

DEPARTURE \_\_\_\_\_

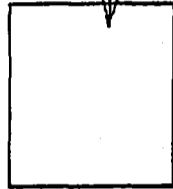
DIP OF HOLE \_\_\_\_\_

COMPLETED \_\_\_\_\_

ELEVATION \_\_\_\_\_

DIP TESTS \_\_\_\_\_

DEPTH \_\_\_\_\_



CLAIM No. \_\_\_\_\_

DIRECTION AND DISTANCE FROM \_\_\_\_\_

NE. CLAIM POST

FOOTAGE FROM	TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	AU	PPM	ASSAY
				FROM	TO				
			4561	267.7	271.6	3.9	Nil		
			4562	271.6	274.6	3.0	Nil		
			4563	274.6	277.6	3.2	Nil		
			4564	277.8	280.4	2.6	Nil		
			4565	280.4	283.5	3.1	Nil		
			4566	283.5	284.5	1.0	50/60		
			4567	284.5	288.1	3.6	Nil		
			4568	288.1	289.9	1.8	Nil		
		Graphitic chert beds and pyrite (2-3%) from 289.9 to 302.2'. Poor conductor.	4569	289.9	293.7	3.8	Nil		
			4570	293.7	297.9	4.2	Nil		
			4571	297.9	301.5	3.6	10		
			4572	301.5	305.0	3.5	Nil		
			4573	305.0	307.9	2.9	Nil		
			4574	307.9	314.3	6.4	Nil		
		Graphitic chert beds 314.3 to 316.0', 320.0 to 321.1', 325.2 to 327.2', 339.3 to 341.0'	4575	314.3	316.4	2.1	Nil		
			4576	316.4	319.9	3.5	Nil		
			4577	319.9	325.0	5.1	Nil		

# DIAMOND DRILL RECORD

LOGGED BY D. Constable

Constable Consultant Inc.

PROPERTY \_\_\_\_\_

LATITUDE \_\_\_\_\_ BEARING OF HOLE \_\_\_\_\_

STARTED \_\_\_\_\_

D.D.H. No. Px-86-2 PAGE 5/7

DEPARTURE \_\_\_\_\_

DIP OF HOLE \_\_\_\_\_

COMPLETED \_\_\_\_\_

CLAIM No. \_\_\_\_\_

ELEVATION \_\_\_\_\_

DIP TESTS \_\_\_\_\_

DEPTH \_\_\_\_\_

NE. CLAIM POST



FOOTAGE FROM	TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	AU 1000	ASSAY
				FROM	TO			
			4578	325.0	327.6	2.6	Nil	
			4579	327.6	332.4	4.8	Nil	
			4580	332.4	335.0	2.6	Nil	
			4581	335.0	337.0	2.0	Nil	
			4582	337.0	341.1	4.1	30	
			4583	341.1	344.4	3.3	Nil	
		Silica flood with increasing brown colour and finely disseminated	4584	344.4	347.0	2.6	Nil	
		pyrite (up to 10%) from 345.0 to 356.0	4585	347.0	351.1	4.1	60/50	
			4586	351.1	355.6	4.5	10	
		From 356.0' onwards rock regains softness and green colour	4587	355.6	359.8	4.2	Nil	
			4588	359.8	364.0	4.2	Nil	
			4589	364.0	367.8	3.8	Nil	
			4590	367.8	370.9	3.1	Nil	
		By 370.9' rock shows signs of breccia texture, intensifying to	4591	370.9	374.0	3.1	Nil	
		the area of 391.5'	4592	374.0	377.3	3.3	310/200	
			4593	377.3	380.9	3.6	Nil	
			4594	380.9	385.0	4.1	Nil	





# DIAMOND DRILL RECORD

LOGGED BY D. Constable

Constable Consulting Inc.

PROPERTY Perrex Resources Inc. - Harker Township Property. 103

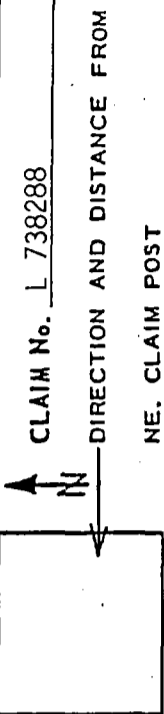
D.D.H. No. PX-86-3 PAGE 1/4

LATITUDE 32+00 West BEARING OF HOLE (Ast.) STARTED May 7 /86

DEPARTURE 7+00 North DIP OF HOLE -50° COMPLETED May 10/86

ELEVATION Ø DIP TESTS -51° (Corrected) at 200' DEPTH BQ Core

-45° (Corrected) at 645'



FOOTAGE FROM	TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY
				FROM	TO		
0.0	174.0	Casing					
		0 - Clay					
		Bouldersand Sand					
174.0	360.0	Mafic Flow (Mg-Tholeiites)					
		Dark to Olive Green, soft, extremely blocky and light weight rock.					
		Shows extensive weathering and alteration, particularly epidolization.					
		Medium grained. Very little carbonate content.					
		Epidote - lined selvages and frequently observed (pillow selvages ?)					
		at 270.8 and 282.5 Only minute sulfide (pyrite) bleb are observed at infrequent intervals.					
		Selvages again at 296.0, 310.2, 320.0, 321.7, 333.5, 340.2 and 344.7					
		Last 2' of flow is fine-grained.					

# DIAMOND DRILL RECORD

LOGGED BY D. Constable

Constable Consulting Inc.

PROPERTY \_\_\_\_\_

LATITUDE \_\_\_\_\_ BEARING OF HOLE \_\_\_\_\_

STARTED \_\_\_\_\_

DEPARTURE \_\_\_\_\_ DIP OF HOLE \_\_\_\_\_

COMPLETED \_\_\_\_\_

ELEVATION \_\_\_\_\_ DIP TESTS \_\_\_\_\_

DEPTH \_\_\_\_\_

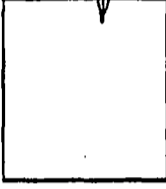
BQ Core

D.D.H. No. Px-86-3 PAGE 2/4

CLAIM No. \_\_\_\_\_

DIRECTION AND DISTANCE FROM

NE. CLAIM POST



FOOTAGE FROM	TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY
				FROM	TO		
360.0	381.0	Hyaloclastic					
		Dark green, blocky, fragmental with both definite fragments and shadowy fragments often collapsed. Bedding is at 60° to CA.					
		NIL sulfides.					
381.0	529.2	Mafic Volcanic Flow Mg-Tholeiites					
		Dark Green, vesicles and amygdules.					
		Epidolized-qtz-pyrite selvages at 421.9 and 427.5					
		Rock still extremely blocky with only coarse pyrite cubes (trace)					
		At 430.0-2" wide fault zone - calcite and gauge.					
		At 470.3-4" wide fault gauge					
		Salvage at 505.3					

# DIAMOND DRILL RECORD

LOGGED BY D. Constable

Constable Consulting Inc.

PROPERTY \_\_\_\_\_

D.D.H. No. Px-86-3 PAGE 3/4

LATITUDE \_\_\_\_\_ BEARING OF HOLE \_\_\_\_\_ STARTED \_\_\_\_\_

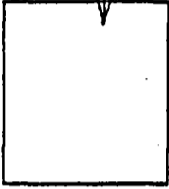
CLAIM No. \_\_\_\_\_

DEPARTURE \_\_\_\_\_ DIP OF HOLE \_\_\_\_\_ COMPLETED \_\_\_\_\_

DIRECTION AND DISTANCE FROM \_\_\_\_\_

ELEVATION \_\_\_\_\_ DIP TESTS \_\_\_\_\_ DEPTH \_\_\_\_\_

NE. CLAIM POST \_\_\_\_\_



BQ Core

FOOTAGE FROM	TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	AU	DDP	ASSAY
				FROM	TO				
		From 511.0 onwards irregular white quartz-carbonate veins and veinlets cut rock (2%)							
		From 512.7 - 513.3 quartz breccia zone with 1% pyrite.	4502	512.7	513.5	0.8	200	110	
			4503	513.5	517.3	3.8	70		
			4504	517.3	520.7	3.4	20		
			4505	520.7	524.5	3.8	10		
			4506	524.5	529.1	4.6	20		
529.2	550.0	Chert Breccia							
		Light grey to buff, hard, massive rock cut by quartz veins and brecciated with fractures filled by dark mineral and carbonate 1-2% finely disseminated pyrtie and chalcopyrite. Sharp conformable OUT contact at 52° to CA.	4507	529.1	532.2	3.1	30		
			4508	532.2	535.6	3.4	30		
			4509	535.6	539.7	4.1	30		
			4510	539.7	543.6	3.9	10		
			4511	543.6	545.0	1.4	NI		
			4512	545.0	548.0	3.0	20		
			4513	548.0	550.0	2.0	NI		

# DIAMOND DRILL RECORD

LOGGED BY D. Constable

Constable Consultant Inc.

PROPERTY Perrex Resources Inc.-Harker Township Property 103

D.D.H. No. Px-86-3 PAGE 4/4

LATITUDE \_\_\_\_\_ BEARING OF HOLE \_\_\_\_\_ STARTED \_\_\_\_\_

DEPARTURE \_\_\_\_\_ DIP OF HOLE \_\_\_\_\_ COMPLETED \_\_\_\_\_

ELEVATION \_\_\_\_\_ DIP TESTS \_\_\_\_\_ DEPTH \_\_\_\_\_

BQ Core



CLAIM No. \_\_\_\_\_

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE FROM TO		DESCRIPTION	SAMPLE No.	FOOTAGE FROM TO		SAMPLE LENGTH	ASSAY
FROM	TO			FROM	TO		
550.0	645.0	Mafic Volcanic Flow (Mg-Tholeiite)					
		Dark Green, massive, average hardness with 1-2% irregular white veins and veinlets. Pyrite cubes along fractures and isseminated (<1%).	4514	550.0	555.0	5.0	Nil
			4515	55.0	559.0	4.0	10 20
			4516	559.0	564.0	5.0	10
		From 593.7 - 594.5 Zone of calcite-qtz and breccia.	4517	564.0	567.8	3.8	Nil
		Selvages with epidote at 614.5 and 623.8'	4518	614.7	618.4	3.7	Nil
			4519	618.4	623.2	4.8	Nil
		At 625.3-2" wide quartz-carbonate-specular hematite filled vein.	4520	623.2	627.0	3.8	Nil
		At 621.7 blebs of chalcopyrite as well as pyrite.	4521	627.0	632.5	5.5	Nil
		At 636.5 - 1" wide quartz-calcite-specular hematite vein.					



End of Hole Px-86-3 is at 645.0'











# DIAMOND DRILL RECORD

LOGGED BY D. CONSTABLE

CONSTABLE CONSULTING INC.

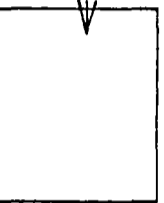
PROPERTY PERREX RESOURCES INC. Property 105

D.D.H. No. PX-86-4 PAGE 5 of 5

LATITUDE \_\_\_\_\_

BEARING OF HOLE \_\_\_\_\_

STARTED \_\_\_\_\_



DEPARTURE \_\_\_\_\_

DIP OF HOLE -50°

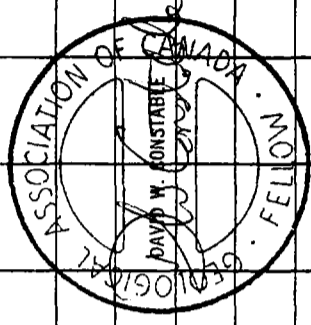
COMPLETED \_\_\_\_\_

ELEVATION \_\_\_\_\_

DIP TESTS -50° at 200'  
-50° at 300'  
-50° at 400'  
-49° at 666'

DEPTH 671.0'

FOOTAGE FROM	TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY
				FROM	TO		
		From 594.6' rock is epidotized, silicified and fracture-filled with quartz-epidote and pyrite. (To 602.8').					
		From 602.8' to 610.4' Core is extremely blocky and some 20% of the core was ground or lost. Broken material appears to be another lamprophyre dyke which ends at 612.3'. Then bleaching on contact and epidote development. Dyke again at 613.0' to 613.6'.					
		Then back into medium-grained Mg-Tholeiite flows increasing to coarse-grained at 628.0'. Nil sulfides.					
		From 669.0' to 671.0' gradual decrease in grain size to fine-grained.					
		END OF HOLE PX-86-4 is at 671.0'					



# DIAMOND DRILL RECORD

LOGGED BY D. CONSTABLE

CONSTABLE CONSULTING INC.

PROPERTY PERREX RESOURCES INC.

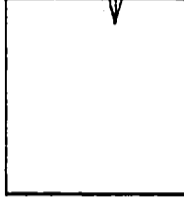
Property 103 Ontario

D. D. H. No. PX-86-5 PAGE 1 of 3

LATITUDE \_\_\_\_\_ BEARING OF HOLE \_\_\_\_\_ STARTED \_\_\_\_\_

DEPARTURE \_\_\_\_\_ DIP OF HOLE - 48° at 96' - -48° at 300' COMPLETED \_\_\_\_\_

ELEVATION \_\_\_\_\_ DIP TESTS - 48° at 400' - -46° at 510' DEPTH 522.0'



CLAIM No. \_\_\_\_\_

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY
				FROM	TO		
0.0	81.0	OVERBURDEN					
81.0	522.0	Mg-THOLEIITES					
		Dark green, fractured, fine-grained, average hardness,					
		quartz-veined, pillowed flows. Pyrite up to 1/2% along					
		fractures and seams. Fractures are quartz-filled,					
		irregular and comprise 2-3% of the rock.					
		Epidotized pillow selvages.					
		Rock becomes progressively more silicified through					
		123 and 140'.					
		From 186.0' to 189.0' fractures disappear as do epidotized					
		selvages and rock becomes a medium-grained flow rock.					







D.D.H. GEOMANAGEMENT LTD.

Duplicate

February 9, 1987

MINISTRY OF NORTHERN  
DEVELOPMENT AND MINES

FEB 10 1987

Mr. Phil Hum,  
D.M.E.P.  
Ministry of Northern Development and Mines,  
Room 4650, Whitney Block,  
Queen's Park,  
Toronto, Ontario  
M7A 1W3

CMEP OFFICE

Dear Mr. Hum,

RE: Perrex Resources Inc.  
103 Group  
Harker-Elliott & Thackeray Townships,  
Larder Lake Mining Division,  
District of Cochrane, Ontario

Further to our telephone conversation re the subject property on February 9, 1987, I understand that you have on file the diamond drill logs by Mr. David Constable as well as the cost report on the program.

This letter report is designed to cover the geological aspects of the program as Mr. Constable is away at this time and to fill in the missing data that you requested.

C.M.E.P.

LOCATION AND ACCESS

The Perrex Resources Inc. 103 Group is located principally in Harker Township with extensions into the adjoining townships of Elliott to the south and Thackeray to the southwest in northeastern Ontario, some 30 kms north of Kirkland Lake and 30 kms west of the Ontario - Quebec border (see Figure 1 after Hinse, 1984).

Road access is from Highway 101 than southerly on former logging roads.

The property is entirely covered by swamp and overburden.

PROPERTY AND TITLE

The property contains 103 unpatented mineral claims controlled by Perrex Resources Inc. The claim numbers and record dates are outlined below (see Figure 2 after Hinse, 1984).

<u>HARKER TOWNSHIP</u>		<u>DAYS WORK COMPLETED</u>	<u>RECORDING DATES</u>
L-738275 to L-738290 inclusive	16	60	March 1, 1984
L-737975 to L-737979 inclusive	5	60	February 27, 1984
L-738601 to L-738606 inclusive	6	60	March 9, 1984
L-738054 to L-738060 inclusive	7	60	March 1, 1984
L-738078 to L-738085 inclusive	8	60	March 1, 1984
L-738399	1	60	February 27, 1984
L-738400 to L-738403 inclusive	4	60	March 1, 1984
L-760147 to L-760156 inclusive	10	60	March 1, 1984
L-738522 to L-738523 inclusive	2	60	March 1, 1984
L-738611 to L-738612 inclusive	2	60	March 9, 1984
	61		

QMEP

ELLIOTT TOWNSHIP

		<u>DAYS WORK COMPLETED</u>	<u>RECORDING DATES</u>
L-738528 to L-738529 inclusive	2	50	March 1, 1984
L-738834 to L-738835 inclusive	2	60	March 19, 1984
L-738836 to L-738837 inclusive	2	50	March 19, 1984
L-738843	1	50	March 19, 1984
L-738844 to L-738845 inclusive	2	60	March 19, 1984
L-738607 to L-738610 inclusive	4	60	March 9, 1984
L-738404 to L-738408 inclusive	5	60	March 1, 1984
L-739232 to L-739246 inclusive	<u>15</u>	60	March 23, 1984

33

THACKERAY TOWNSHIP

L-738838 to L-738840 inclusive	3	80	March 19, 1984
L-738841	1	60	March 19, 1984
L-738842	1	50	March 19, 1984
L-738524 to L-738525 inclusive	2	50	April 25, 1984
L-738526 to L-738527 inclusive	<u>2</u>	50	March 1, 1984

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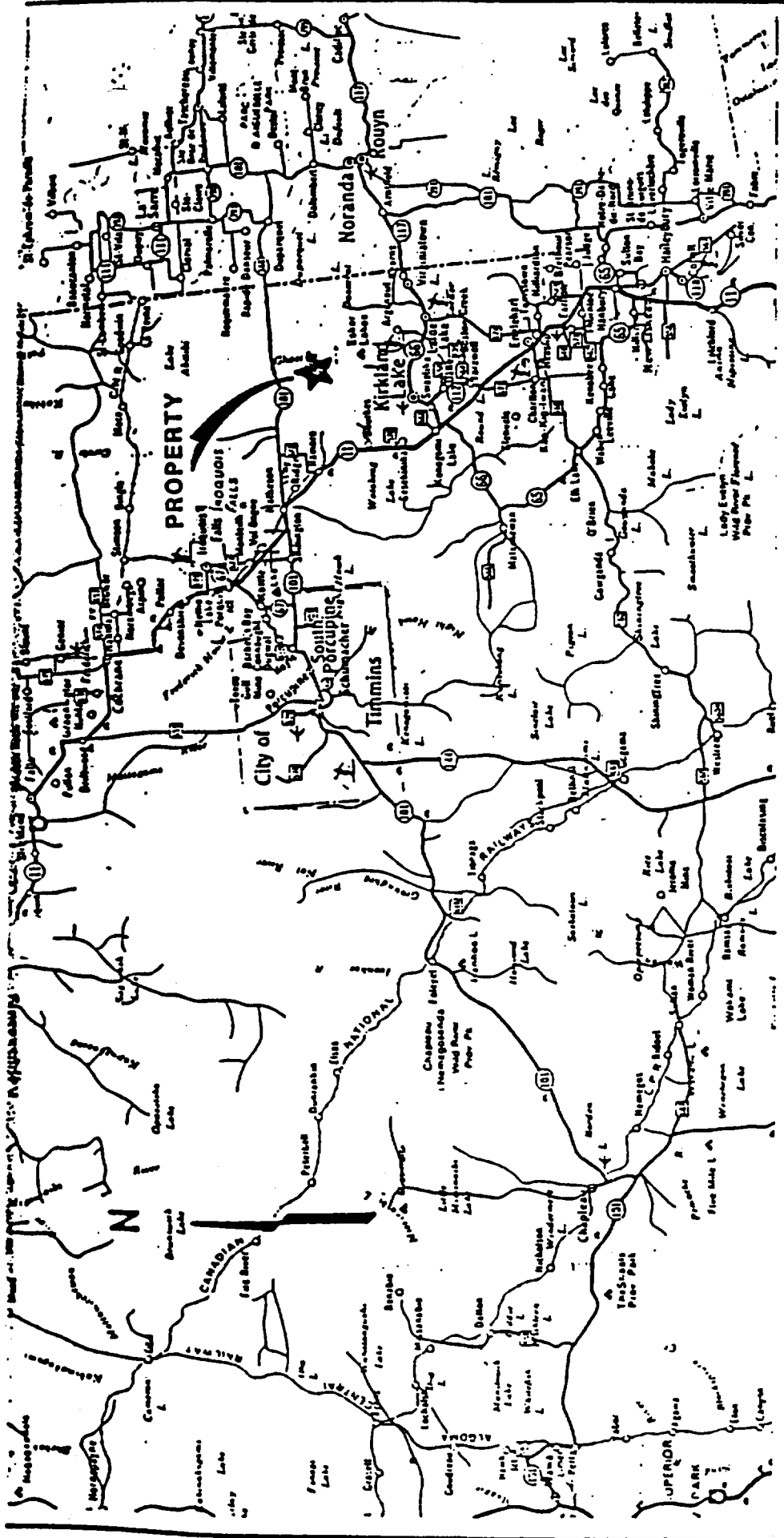


Figure 1.

GENERAL LOCATION MAP

PERREX RESOURCES INC.

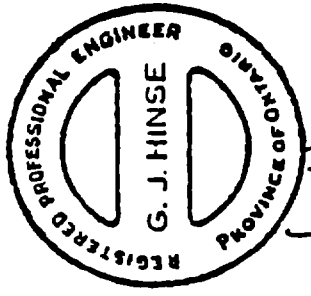
103 GROUP

HARKER, ELLIOTT AND THACKERY

10 0 10 20 30 40 50 60 70 TWPS.

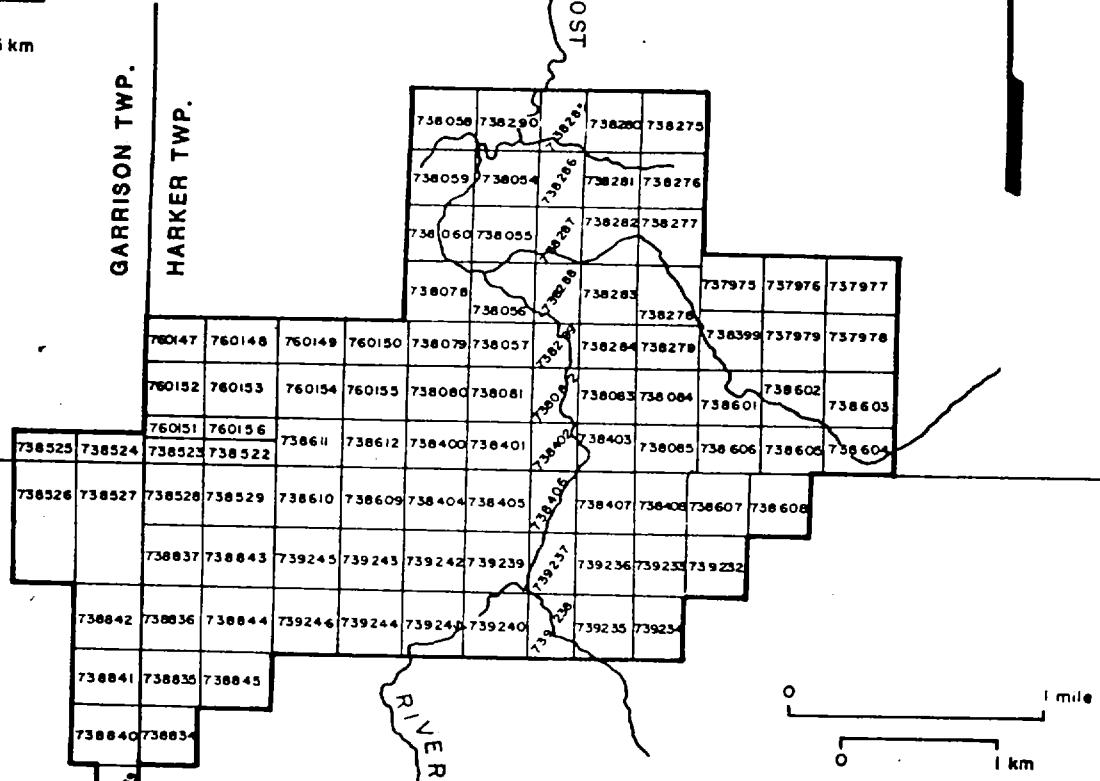
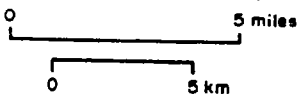
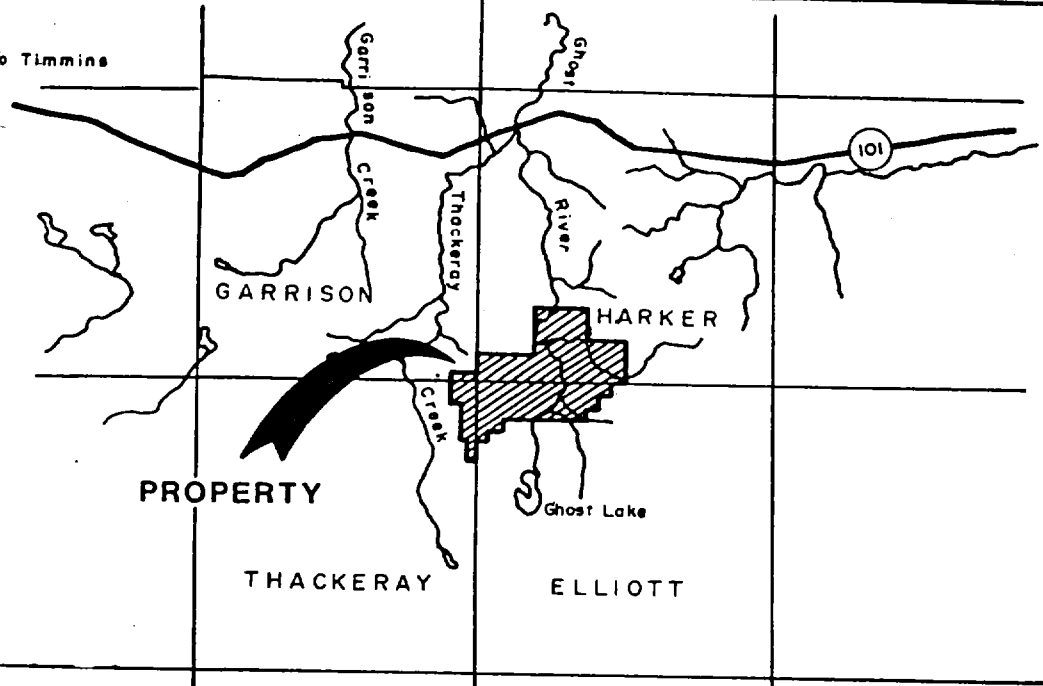


FIGURE 1



*G. J. Hinse*  
 G. J. HINSE MAY 1988

← To Timmins



*G. J. Hinse*

Figure 2.

LOCATION AND PROPERTY MAP  
of the  
GHOST RIVER PROPERTY  
for

578619 ONTARIO INC.

HARKER, GARRISON, ELLIOTT AND THACKERAY TOWNSHIPS, ONTARIO

PREVIOUS WORK

Previous work on the property includes G.J. Hinse, P. Eng., May 22, 1984, who reviewed the property and outlines magnetic and electromagnetic ground surveys and a basal till sampling program; R.J. Bradshaw, P. Eng., October 7, 1985, reviewed the property; Phoenix Geophysics Ltd., March 7, 1986, undertook the initial induced polarization survey which was later followed by additional induced polarization surveys by Paterson, Grant and Watson Ltd., June - July, 1986. Ground magnetics and VLF-EM was done by Perron's Inc. during 1984 and 1985. Diamond drilling was undertaken in 1986 and the core logged by David Constable, Consulting Geologist.

Several major mining companies are actively engaged in exploration and development in what has become known as «The Harker Holloway Gold Camp». Cominco, Newmont, Kerr Addison and American Barrick all have adjoining claims to the Perrex properties, as do Grandad, Silverhawk and Lenora. The most significant discovery to date is what is called the McDermott Zone by American Barrick being some 2 to 3 miles from the Perrex boundary, followed by the Canamax discovery close by and several very encouraging results by Lenora of the Kasner Group. American Barrick announced drill indicated probably and possible ore reserves as at December 31, 1985, of 2,841,000 tons averaging 0.197 ounces of gold per ton; since that time they are now converting their exploration shaft into a production shaft and are daily increasing ore reserves with the intent of a production decision. Canamax is similarly increasing reserves and is at a production decision stage. It is noteworthy that of the several gold horizons in the area, at least three pass through the Perrex ground (see Figure 3).

C.M.E.P.

To the immediate northeast, on the Sherritt-Perrex-Ambler property, some 34 overburden reverse circulation holes were drilled. All completed holes (33) gave up measurable gold values, the most significant of which was 35,400 ppb or approximately 1.1 ounces per ton. Induced polarization surveys, as well as magnetometer and VLF surveys have been on portions of the holdings, primarily in the vicinity of several airborne indicated anomalies (see Figure 3). Limited diamond drilling has ensued in order to test geological structure beneath a cumbersome overburden covering of most of the property; these holes have returned encouraging anomalous gold values up to .04 ounces per ton and have indicated structure significantly similar to that of the McDermott ore bearing zones.

O.W.E.P





REGIONAL GEOLOGY

Geologically the 103 Group of Perrex Resources Inc. overlies Archean rocks of the Kinojevis Group of the Abitibi Greenstone Belt within the Superior Structural Provinces. (See Figure 4 after L.S. Jensen (1986) Ontario Geol. Survey., Misc. Paper 129.)

DRILL PROGRAM 1986

Heath & Sherwood Drilling of Kirkland Lake, Ontario were contracted to penetrate the overburden and core drill bedrock using B.Q. equipment.

The following holes were drilled: (See Figure 5)

<u>Hole No.</u>	<u>Location</u>	<u>Dip</u>	<u>Brg.</u>	<u>Length</u>	<u>Remarks</u>
PX 86-1A	44W, 20N	-50°	332°	165.0'	Overburden
PX 86-1B	44W, 19N	-50°	332°	191.0'	Overburden
PX 86-1C	43+95W, 19N	-50°	332°	235.0'	Overburden
PX 86-1D	44W, 20+10 N	-65°	332°	933.0'	Overburden to 181.0'
PX 86-2	36W, 19+75 N	-65°	332°	595.0'	Overburden to 145.0'
PX 86-3	32W, 7N	-50°	332°	645.0'	Overburden to 174.0'
Subtotal				2,764.0'	

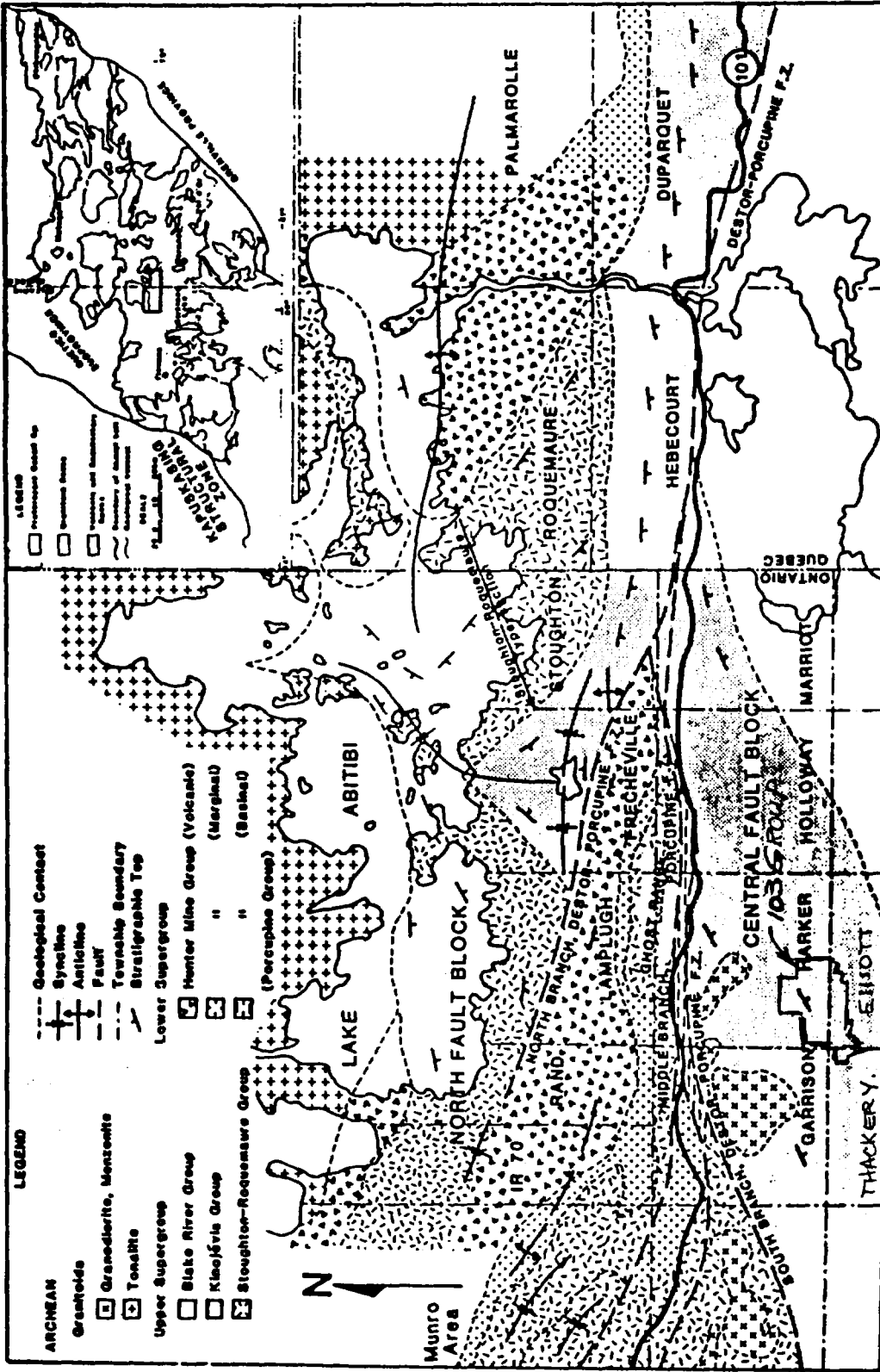
Other holes drilled but not part of O.M.E.P. Grant were:

PX 86-4	671'
PX 86-5	522'

Diamond drill holes 86-1D (933'), 86-2 (595'), 86-3 (645'), 86-4 (671') and 86-5 (522') were located in a magnetically low trough between two parallel east-northeast trending magnetically high zones.

The area drilled is devoid of outcrops; vertical depth of overburden is: Hole 86-1D, 162'; 86-2, 134'; 86-3, 135'; 86-4, 100'; and 86-5, 81'. Hole 86-1D and 86-2 drilled from station 20N on Lines 44W and 36W respectively indicate the following geological and grade correlations.

*Outlet*



Geological map of the Lake Abitibi area.

FIGURE 4 PERREX RESOURCES INC., 103 GROUP

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# PERREX RESOURCES INC.

## GHOST RIVER-HARKER LAKE PROPERTIES

HARKER, ELLIOTT, GARRISON AND  
THACKERAY TOWNSHIPS  
LARDER LAKE MINING DIVISION  
DISTRICT OF COCHRANE, ONTARIO

## PERRONS' INC.

KIRKLAND LAKE CANADA

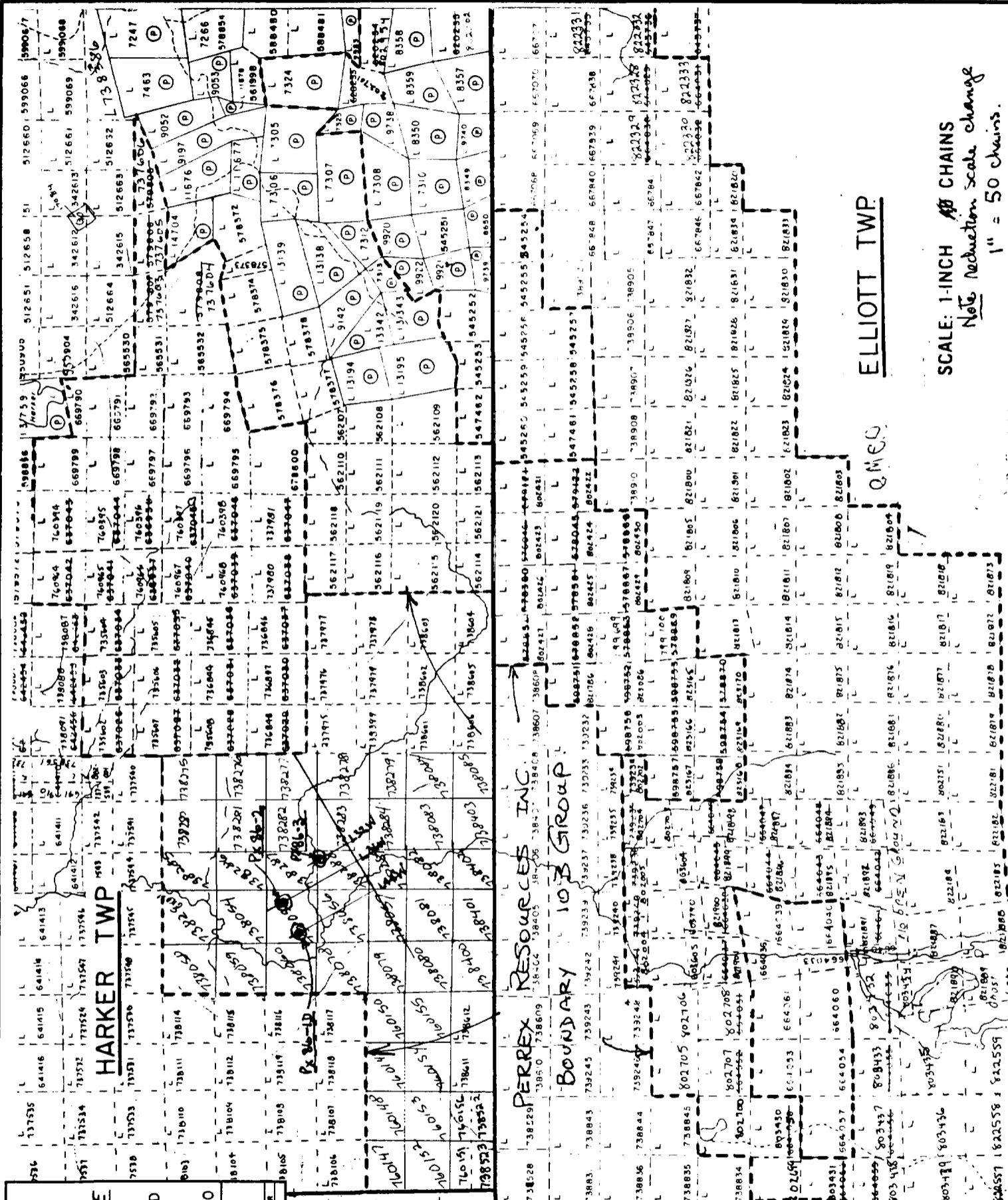
APPROVED BY ALEX PERRON DRAWN BY MARY GREER  
JUNE 1984

## GARRISON TWP.

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## THACKERY TWP.

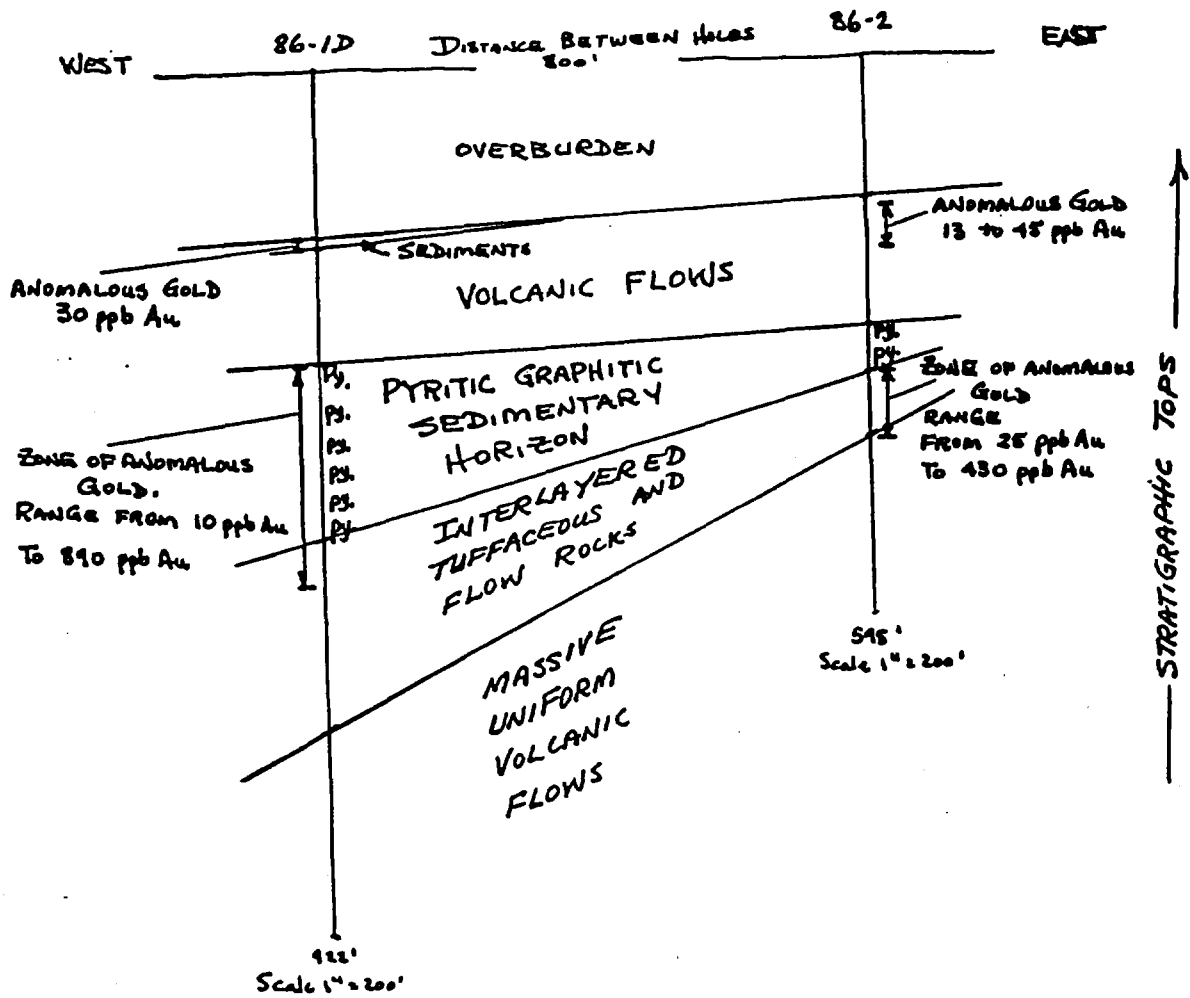
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ELLIOTT TWP

SCALE: 1-INCH = 40 CHAINS  
Note: Reduction scale change  
1" = 50 chains.

FIGURE 5



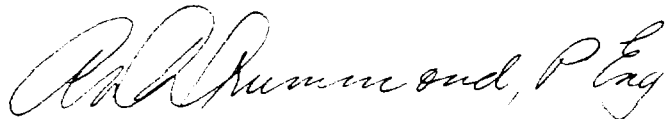
From the above, the stratigraphy is correlatable between holes 86-ID and 86-2 with a massive flow giving away stratigraphically upwards to a sequence of tuffaceous beds and interlayered flows which in turn passes to a sedimentary basin above which flows cover the sedimentary horizon. The sedimentary horizon was originally black mud which in time became a pyritic-bearing, bedded but sheared, black argillaceous graphitic zone of metasedimentary rock.

Gold values have been noted to occur within this metasedimentary interflow horizon. In general lower gold values are noted in hole 86-2 than in 86-ID. Similarly, the intersected width of the horizon is greater in hole

86-1D than in 86-2.

The above mentioned gradients in both width of pyritic horizon and more importantly, in grade of gold noted, indicate that a larger and possibly rich gold-bearing basin may be developing to the west of hole 86-1D.

Respectfully submitted,

A handwritten signature in cursive script that reads "A. D. Drummond, P. Eng." The signature is written in dark ink and is positioned above the typed name.

A. D. Drummond, Ph. D., P. Eng.

D.D.H. GEOMANAGEMENT LTD.