REPORT ON THE 1983 EXPLORATION PROGRAM OF THE PEZAMERICA RESOURCES CORPORATION PROPERTY IN THE DAYOHESSARAH LAKE AREA, ONTARIO

SUMMARY

The 1,250-claim Pezamerica Resources Corporation property is located approximately 20 miles northeast of White River, Ontario. During July, August and September of 1983 a program of regional geological mapping and geochemical soil sampling was completed. Geophysical follow-up of DIGHEM anomalies commenced in September and was completed in October 1983, with the exception of surveys in water-covered areas.

The regional mapping confirmed that the property is underlain by a greenstone belt consisting of a central band of metasediments flanked by metavolcanics. The geochemical program revealed an area of highly anomalous gold values near the eastern contact of the metasedimentary belt.

To date, twenty-four DIGHEM anomalies have been surveyed. Of these, eleven have been fully traced, six require additional surveys and seven are assumed to be caused by overburden conductivity.

It is recommended that the next phase of exploration consist of detailed geochemical sampling and prospecting and the completion of the geophysical surveys. The eleven fully traced conductors are recommended for diamond drilling.

The estimate of expenditures for the next stage of exploration amounts to $174,000.

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CONTENTS

ILLUSTRATIONS

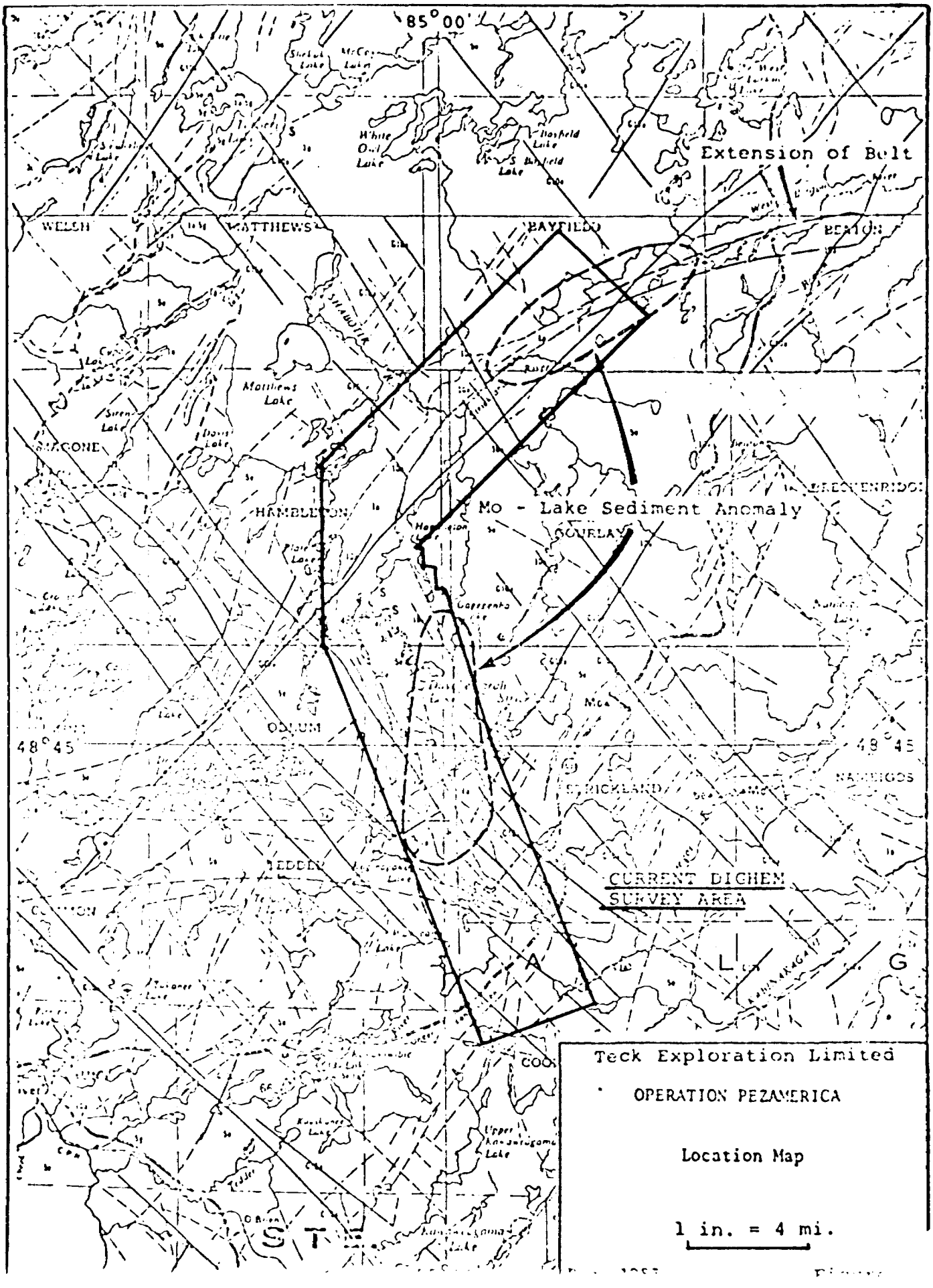
INTRODUCTION

The property consists of 1250 unpatented mining claims recorded in the name of Pezamerica Resources Corporation, and covers portions of seven townships in the Sault Ste. Marie and Porcupine Mining Divisions. A list of the claim numbers is provided in Appendix I.

The property is centered on Dayohessarah Lake, approximately 20 miles northeast of the town of White River. The south end of the property is accessible by highway 631 that joins White River and Hornepayne. The central part is accessible by float or ski plane from White River to Hambleton, Dayohessarah or Kaginagakog Lakes, while the remainder can be reached by helicopter.

The central strip of the property is occupied by a valley filled with glacial outwash deposits and lakes. Rolling hills flank the valley to the east and west.

At least two other companies have previously shown an interest in the area. In 1969, Canex Aerial Exploration began a program that included shoot-back, Radem, magnetometer, and geological surveys in the vicinity of mafic intrusives at the north end of Dayohessarah Lake. The program culminated in the drilling of three holes. The best


85°00'
Extension of Belt
WELSH
MATTHEWS
BAYFIELD
BEATON
Mo - Lake Sediment Anomaly
HAMBLETON
OGILVIE
48°45
CURRENT DIGHEM
SURVEY AREA
Teck Exploration Limited
OPERATION PEZAMERICA
Location Map
1 in. = 4 mi.

intersection recorded contained 0.316% Ni and 0.08% Cu over 5.0' ft.

In 1975 Shell Canada Limited mapped the central part of the greenstone belt on a scale of 1":1/4 mile. The mapping was to serve as a guide for an airborne survey but the area was never flown. The geological map produced by Shell provides part of a data base for the work performed by Teck Explorations in 1983.

At the request of Pezamerica, Dighem Limited performed airborne electromagnetic and magnetic surveys. The results of this DIGHEM III survey are described in a report by Z. Dvorak, (April 28, 1983).

1983 EXPLORATION PROGRAM

Work Performed

In 1983 field work consisted of two separate programs. The first, commencing in July, consisted of regional geological mapping and geochemical soil sampling. Two crews of two men soil sampled across the metasedimentary belt in the central part of the property at 100 ft. intervals along claim lines spaced approximately 1/4 mile apart. One

geologist mapped the lines to outline the contact of metasedimentary rocks with other units. To ensure the metasediments were fully covered, soil samples were taken 500' into the surrounding lithologies. An attempt was made at each station to sample the B horizon. In locations where the depth to the B horizon was greater than 6", an 18" Oakfield sampling tube on the end of a 30" T-Bar was used to collect the sample. This equipment enabled a maximum penetration of 4'. If the B horizon was at a depth of less than 6" a pit was dug with a grubhoe and the sample collected by hand. In locations where the B horizon was deeper than 4' the A horizon was sampled. Each sample was described with respect to drainage direction, soil type, colour, horizon, and depth to the top of the sample.

Samples were dried in the field and shipped to X-Ray Laboratories in Toronto for gold analysis. B horizon samples were analyzed to a lower limit of 2ppb by fire assay after a D.C. plasma emission procedure. Humus (A horizon) samples were briquetted by X-Ray Laboratories and assayed by neutron activation at McMaster University to a lower limit of 1ppb.

The results were statistically analyzed and the threshold, anomalous and highly anomalous values plotted on a geological base map (Dwg. 5639, 5640 and 5641).

The second part of the program consisted of ground follow-up of the DIGHEM anomalies.

Initially, a single traverse over each of the anomalies was surveyed electromagnetically, using a Crone CEM unit in the shootback mode, to locate the conductor on the ground. If the conductor was located, the CEM unit was used in the vertical mode to trace the conductor to adjacent lines. All lines were then surveyed with a magnetometer, geologically mapped and soil samples taken across the conductor axes. The sampling and assaying procedures were the same as for the samples taken in the regional program. Because the detailed samples were few in number they were not analyzed statistically but all samples with 2ppb Au or greater were plotted on the individual anomaly maps.

If the conductor was not located in the initial traverse, several additional lines of shootback were run. If these were not successful in detecting the conductor, the DIGHEM anomaly was assumed to represent an overburden response.

Results

Regional Geology

Although outcrop is scarce, the major metasedimentary contacts were outlined by field reconnaissance, using

Shell's geological map as a guide. Metasediments were encountered to approximately 1/2 mile south of highway 631 and approximately 1 mile north of Dayohessarah Lake. To the south, the metasediments are bounded by massive granitic rocks and to the north by amphibolites.

The metasediments consist of relatively clean metamorphosed sandstones and arkoses with minor greywacke units and very minor conglomerate. These rocks are metamorphosed to quartzites, feldspar-quartz-biotite schists and gneisses, and quartz-feldspar-garnet-biotite schists.

The metavolcanic rocks consist of amphibolites, meta-andesites and minor metarhyolites. Amphibolite is the most common metavolcanic rock type, and is generally dark green to mottled green and white, fine to coarse grained and probably represents metamorphosed basalt or mafic tuff.

Several small mafic stocks of gabbroic composition occur at the north end of Dayohessarah Lake. It is within one of these stocks that Canex encountered subeconomic nickel and copper mineralization.

Medium to coarse grained granitic dykes are common and are related to the granitic intrusives to the east and west of the greenstone belt. Fine-grained, magnetic diabase dykes are also common and crosscut all other units.

Regional Geochemistry

A total of 3,830 samples were taken. A statistical summary of the geochemical results reveals that:

a) Humus (A horizon) samples were insufficient in number for a statistical analysis and therefore were included with the B horizon samples for calculation purposes.

b) A threshold of 5ppb (92nd percentile) was used as the basis for further statistical analyses.

c) Anomalous values (95.5 to 99th percentile range) ranged from 6 to 26ppb. There are a total of 137 samples in this group.

d) Highly anomalous values (greater than the 99th percentile) are greater than 26ppb. There are a total of 35 samples in this group.

Although the highly anomalous samples are scattered throughout the survey area, there appears to be an above average concentration of anomalous values on the east side of the metasedimentary horizon. This is apparent on drawing 5640 where 18 highly anomalous samples are to the east of the centre of the metasedimentary unit.

Detailed DIGHEM Follow-Up

Twenty-four of the thirty-one targets recommended were followed-up by ground geophysical surveys. Seven weak

airborne conductors were not located on the ground. Six were located but not fully explored and eleven anomalies were located and fully traced. The remaining seven anomalies are unworkable in the summer due to wet conditions. Of the eleven fully-traced conductors, five appear to be on the same general stratigraphic horizon on the west side of Dayohessarah Lake, although locally the geology differs. One conductor in this group (3450C-3470C) is further enhanced by a soil geochemical value of 430ppb Au near the conductor axis. This assay is the highest value received on the property including the assays from the regional geochemical surveys. Four other samples on this grid assayed 10ppb or above.

Details and maps of the results of the DIGHEM follow-up are presented in Appendix II.

CONCLUSIONS

Regional geological mapping confirmed that the greenstone belt is comprised of a central metasedimentary suite consisting of feldspar-quartz-biotite schists and gneisses, quartzite, quartz-feldspar-garnet-biotite schists and minor quartz pebble conglomerates bounded in part by a metavolcanic suite consisting of amphibolites with minor

intermediate and felsic metavolcanics. These units are intruded by granitic dykes and small mafic intrusive stocks and dykes.

The regional geochemical survey completed across the metasedimentary belt reveals that the eastern portion contains more highly anomalous gold values than the remainder of the belt. These anomalous samples appear to cross the metavolcanic-metasedimentary contact and may reflect a Hemlo-type environment suitable for gold deposition.

Seven of the DIGHEM^{III} anomalies were not located. These are very weak airborne responses and are assumed to be caused by overburden conductivity. Eleven anomalies, located and fully traced, warrant further work. It is believed that they are caused by sulphide or magnetite concentrations and therefore have a potential for base or precious metal mineralization.

RECOMMENDATIONS

To further explore the highly anomalous geochemical results it is recommended that detailed prospecting be initiated with special emphasis on the anomalous area near the eastern metasedimentary contact.

To complete the follow-up of DIGHEM anomalies, surveys are recommended on the seven water-covered anomalies and on the six anomalies that have not been fully traced. The eleven that were fully outlined are recommended for diamond drilling. Ten of the eleven targets can be drilled in a muskeg tractor-supported operation and the eleventh, because of the great distance from the nearest access, requires helicopter support. To facilitate access, it is recommended to drill the eleven targets in the winter months.

ESTIMATE OF EXPENDITURES

Completion of Phase I (winter work)	
Geophysical Follow-Up	
50 man-days @ $150/day	$ 7,500
Room and Board 50 days @ $65/day	3,250
Transportation (Air & Ground)	10,000
Supervision	2,500
Drafting and Report Writing	2,500
Contingency	3,750
Total Phase I	29,500
Phase II (winter work)	
Diamond Drilling 11 x 300' holes 3300 ft @ $30/ft	99,000
Contingency	11,000
Total Phase II	110,000

Phase III (summer work)	
Geochemistry	
Resampling of anomalous areas	
1500 samples @ $11/sample	16,500
Prospecting	
Prospector for 20 days @ $150/day	3,000
Room and Board 20 days @ $65/day	1,300
Assays 100 @ $12.50/assay	1,250
Transportation (Air & Ground)	5,000
Supervision	1,500
Drafting and Report Writing	1,500
Contingency	4,450
Total Phase III	34,500
TOTAL PHASES I, II & III	$174,000

Respectfully submitted,

K. Thorsen
December 13, 1983

#883NB 42C 10,11,14,15
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REFERENCES

Blecha, M., 1983. Operation Pezamerica Proposed Exploration Program Dayohessarah Area.

Dvorak, Z., 1983. DIGHEM III Survey of the Dayohessarah Lake Area for Pezamerica Resources Corp.

Fenwick, K., 1967. Geology of the Dayohessarah Lake Area, District of Algoma, Geology Report 49.

Robinson., S.D., 1975. Dayohessarah Lake Area Geological Map, Shell Canada Limited.

....., 1970. Drill Logs, Canex Aerial Exploration in Ontario Ministry of Natural Resources Assessment Files Library.

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APPENDIX I

LIST OF CLAIM NUMBERS

PEZAMERICA CLAIMS

SSM 637977 TO SSM 638081 INCLUSIVE

SSM 644246 TO SSM 644278 INCLUSIVE

SSM 644297 TO SSM 644328 INCLUSIVE

SSM 644349 TO SSM 644378 INCLUSIVE

SSM 644391 TO SSM 644428 INCLUSIVE

SSM 663552 TO SSM 663554 INCLUSIVE

SSM 663592 TO SSM 663663 INCLUSIVE

SSM 664068 TO SSM 664205 INCLUSIVE

SSM 665299 TO SSM 665[illegible]8 INCLUSIVE

SSM 665446 TO SSM 665498 INCLUSIVE

SSM 665557 TO SSM 665798 INCLUSIVE

SSM 665848 TO SSM 665861 INCLUSIVE

SSM 665863 TO SSM 665898 INCLUSIVE

SSM 665956 TO SSM 666098 INCLUSIVE

P 665399 TO P 665445 INCLUSIVE

P 665499 TO P 665556 INCLUSIVE

P 665799 TO P 665847 INCLUSIVE

P 665899 TO P 665955 INCLUSIVE

REPORT ON THE 1983 EXPLORATION PROGRAM ON THE PEZAMERICA RESOURCES CORPORATION PROPERTY IN THE DAYOHESSARAH LAKE AREA, ONTARIO

APPENDIX II

GEOLOGICAL LEGEND

DAYOHESSARAH LAKE AREA

9 DIABASE

8 DYKES AND SILLS
- 8a - felsic
- 8b - mafic
- 8c - pegmatite
- 8d - intermediate (diorite)
- 8e - quartz feldspar porphyry

7 FELSIC - INTERMEDIATE INTRUSIVES
- 7a - granite
- 7b - granodiorite
- 7c - diorite

6 MAFIC - ULTRAMAFIC INTRUSIVES
- 6a - gabbro
- 6b - ultramafic

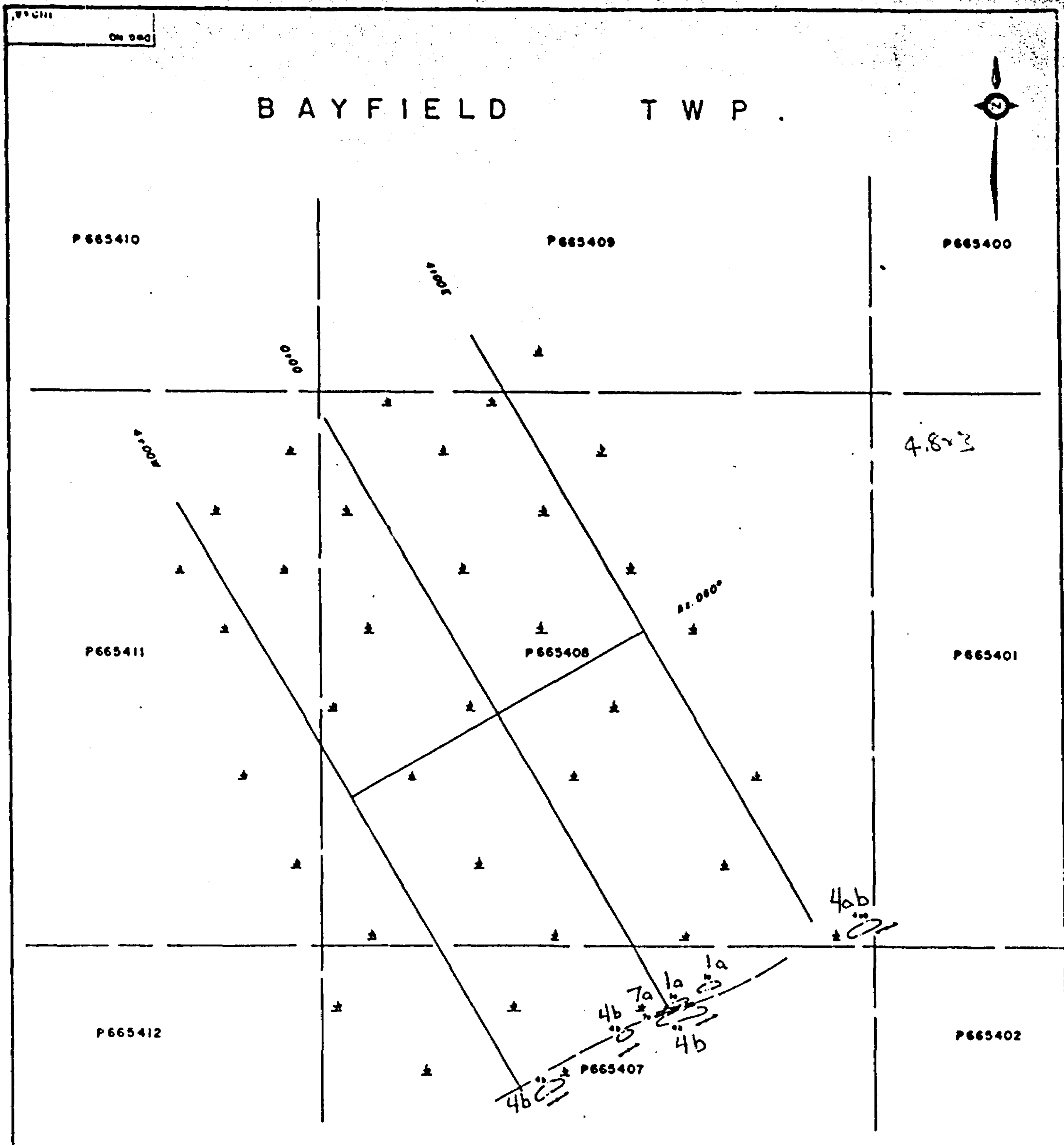
5 GRANITE GNEISS

4 METASEDIMENTS
- 4a - sandstone; arkose; subarkose; quartzite
- 4b - greywacke, quartz-biotite-muscovite schist
- 4c - conglomerate

3 FELSIC METAVOLCANICS
- 3a - rhyolite tuff
- 3b - rhyolite flow

2 INTERMEDIATE - FELSIC METAVOLCANICS
- 2a - tuff

1 MAFIC - INTERMEDIATE METAVOLCANICS
- 1a - amphibolite
- 1b - amphibolite (feldspar) schist include tuffaceous unit
- 1c - knotted amphibolite schist
- 1d - hornblende-chlorite-biotite schist
- 1e - mafic volcanic flows, minor gneiss
- 1f - intermediate-mafic gneiss, amphibolite gneiss (agglomerate)
- 1g - coarse grained flows



*FOR GEOPHYSICS SEE: FILE #2.7460

GEOLOGY BY B BARNES

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Tx STATION:	
COIL SEPARATION:	
FREQUENCY:	

REVISED DATE	CHK

Teck Explorations Limited

PEZAMERICA RESOURCES CORPORATION

OPERATION PEZAMERICA
DAYOHESSARAH AREA, ONTARIO

GEOLOGY 1.5cm=200 ft

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1 inch = 200 feet

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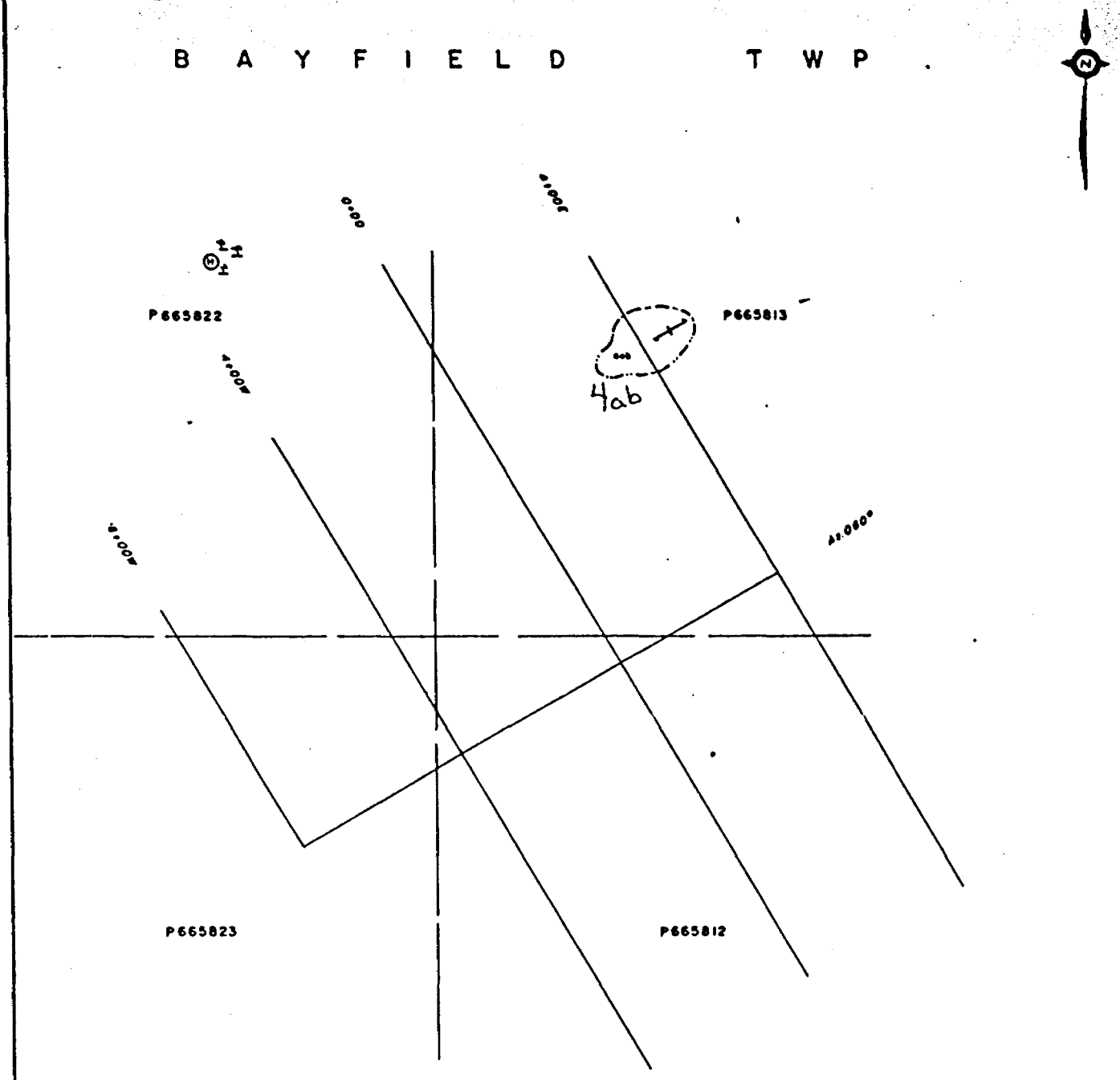

* For Geophysics see: File # 2.7458

GEOLOGY BY. B. BARNES.

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FREQUENCY :	

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Teck Explorations Limited

PEZAMERICA RESOURCES CORPORATION

OPERATION PEZAMERICA
CAYOHESSARAH AREA , ONTARIO

GEOLOGY 1.5cm = 200 ft

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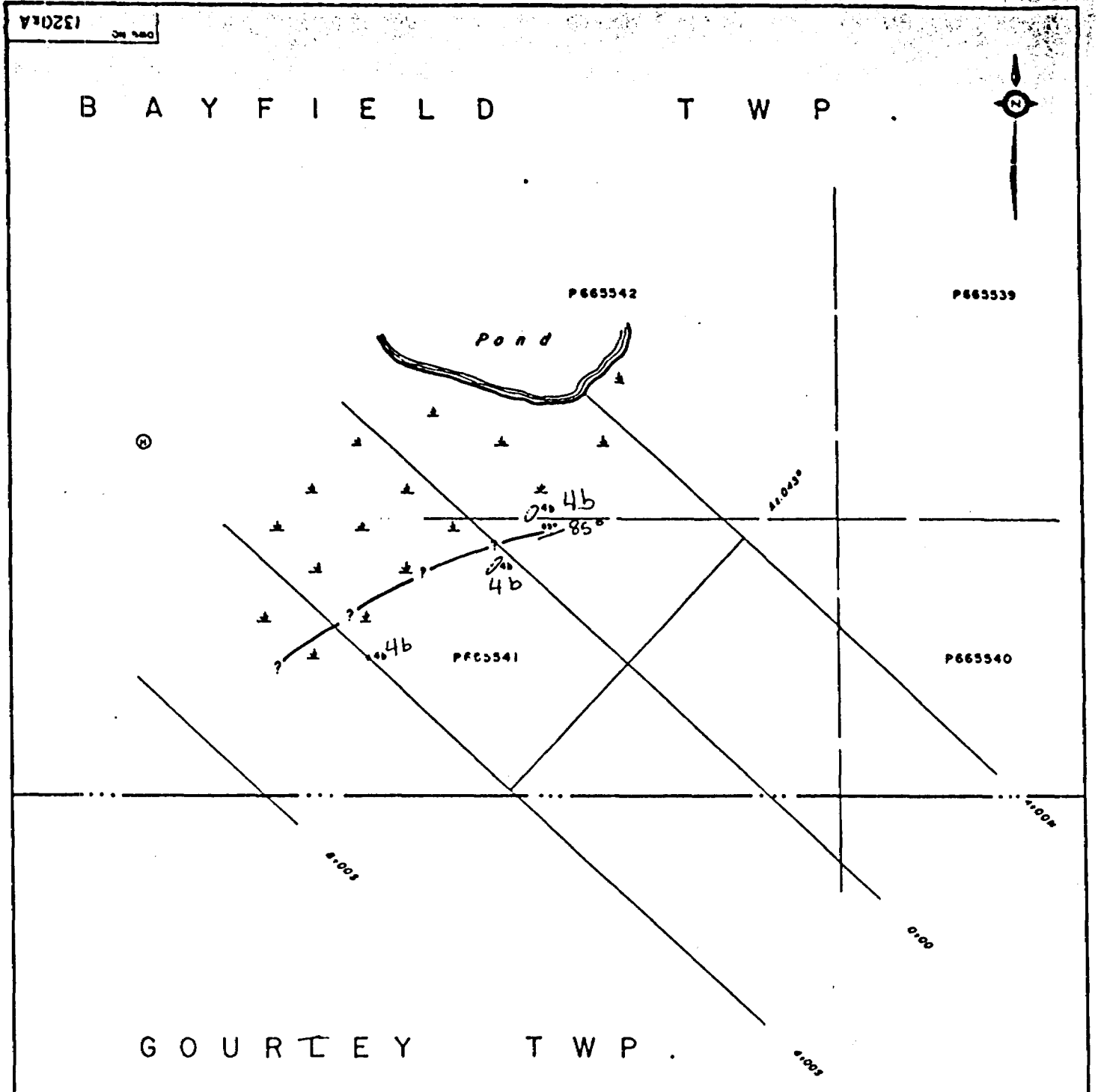

*FOR GEOPHYSICS SEE: FILE #2.7455

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Teck Explorations Limited

PEZAMERICA RESOURCES CORPORATION

OPERATION PEZAMERICA
DAYOHESSARAH AREA, ONTARIO

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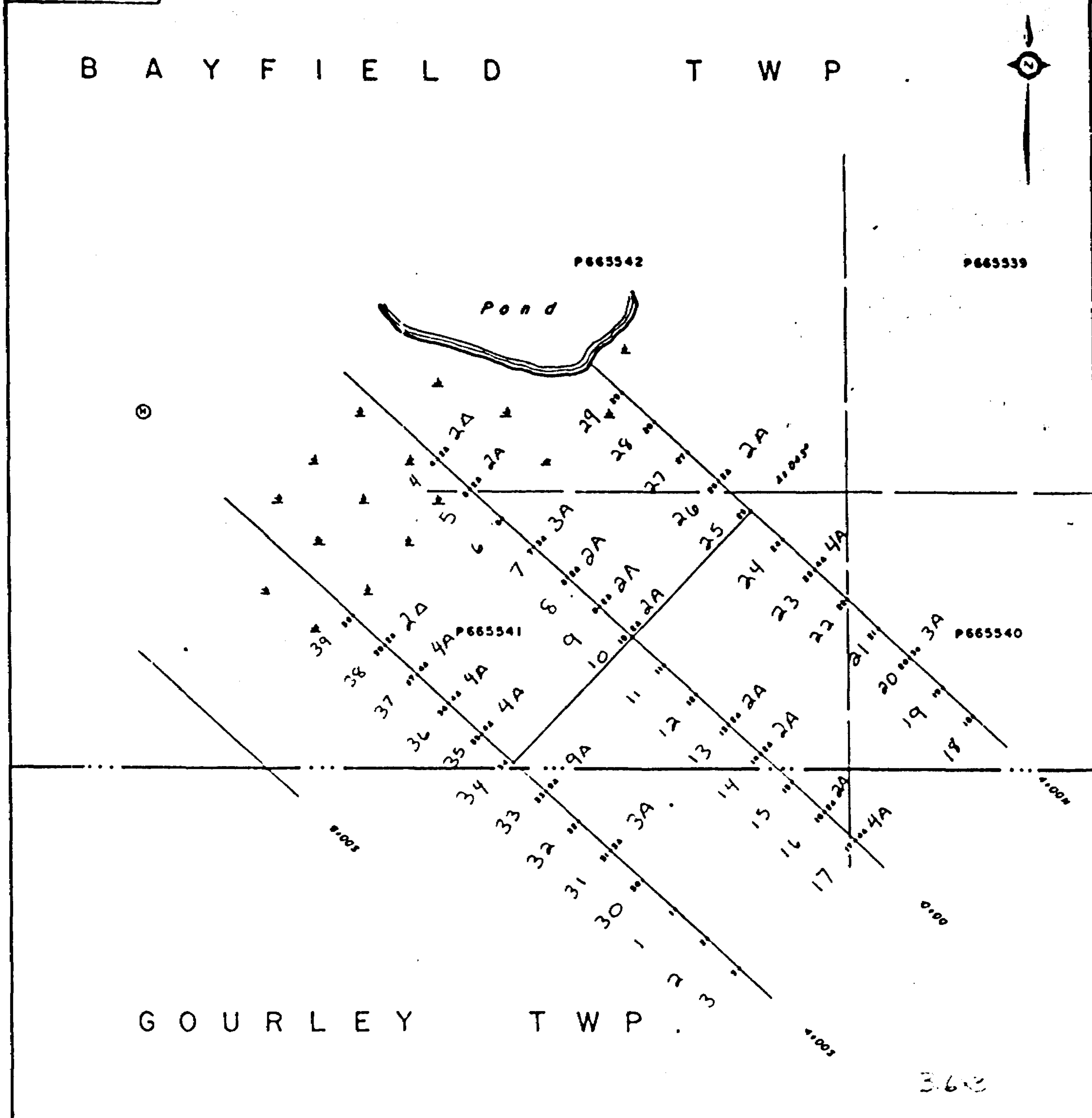

All samples "B Horizon" and <2ppb Au unless marked.

2A - "A" indicates "A Horizon"

SAMPLES TAKEN BY B BARNES

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OPERATION PEZAMERICA
DAYOHESSARAH AREA, ONTARIO

GEOCHEM 1.5cm=200ft

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* FOR GEOPHYSICS SEE: FILE # 2.7457

GEOLOGY BY P BARNES

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OPERATION PEZAMERICA
DAYOHESSARAH AREA, ONTARIO

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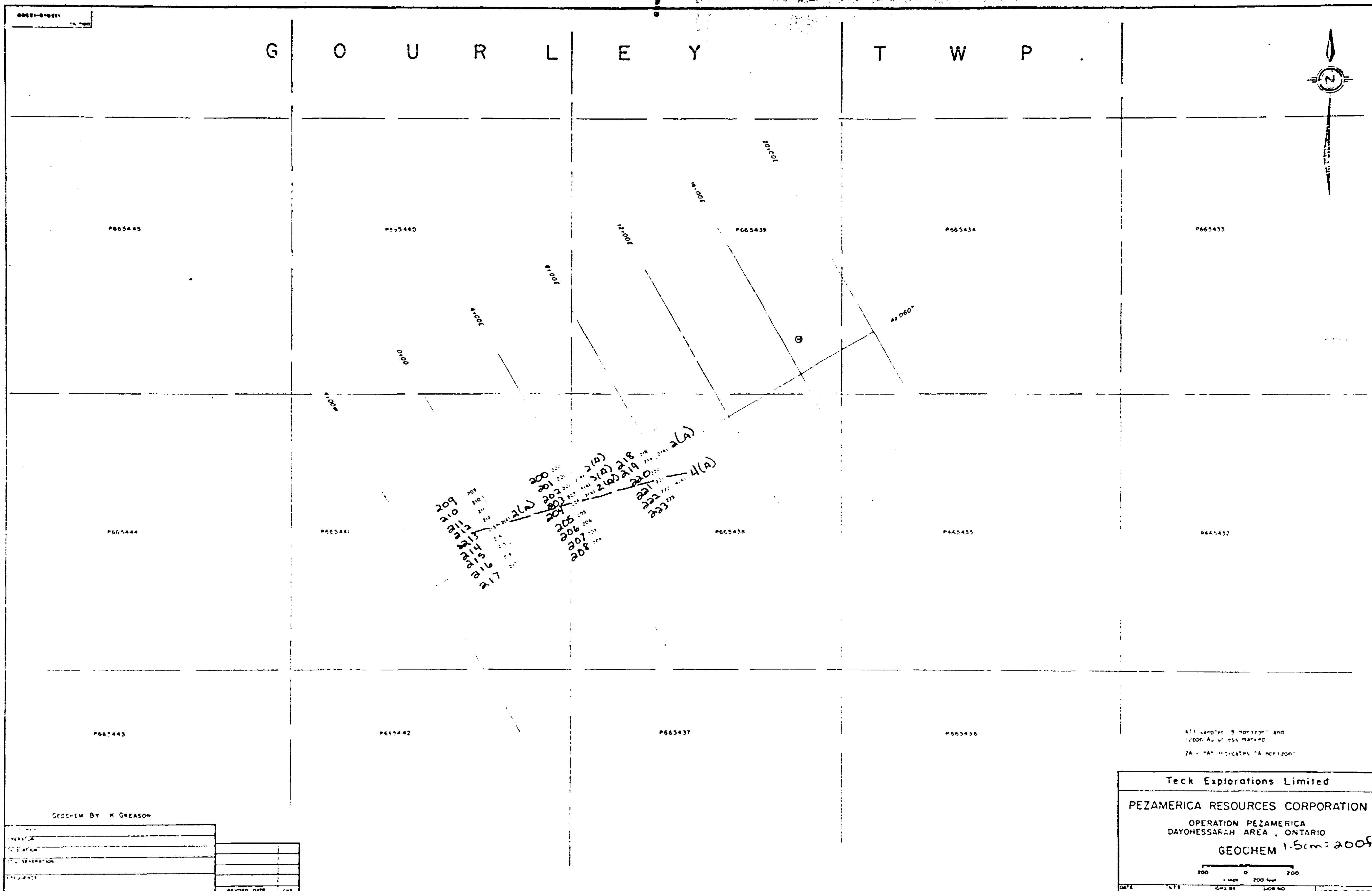
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Teck Explorations Limited
PEZAMERICA RESOURCES CORPORATION
OPERATION PEZAMERICA
DAYOHESSARAH AREA , ONTARIO
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FOR GEOPHYSICS SEE: HAMBLETON-0016-A1

GEOLOGY BY W. PENNO

Teck Explorations Limited

PEZAMERICA RESOURCES CORPORATION

OPERATION PEZAMERICA
CAYOHESSARAH AREA, ONTARIO

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1 inch = 200 feet

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Teck Explorations Limited

PEZAMERICA RESOURCES CORPORA

OPERATION PEZAMERICA
DAYOHESSARAH AREA, ONTARIO

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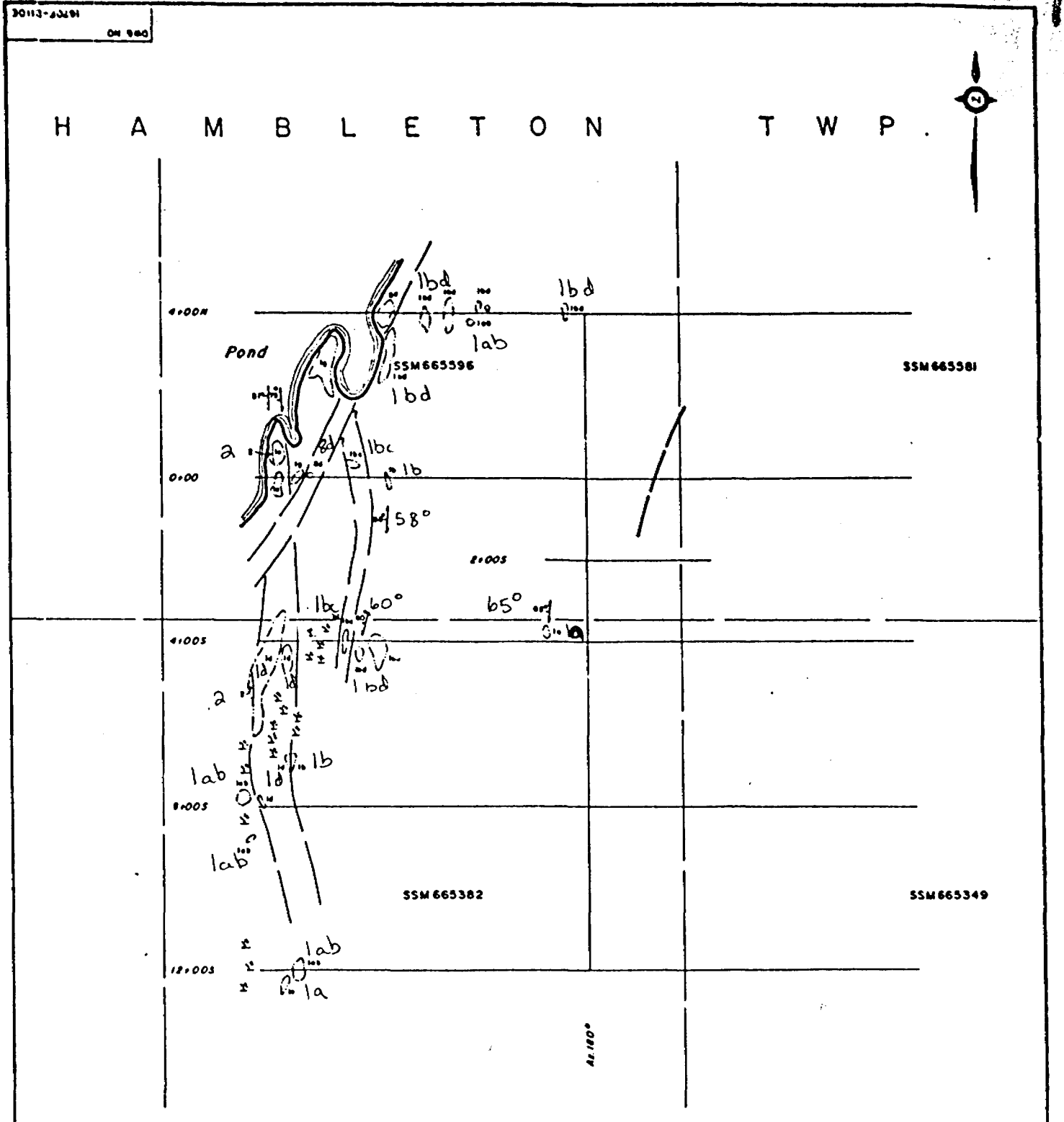

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PEZAMERICA RESOURCES CORPORATION

OPERATION PEZAMERICA
DAYOHESSARAH AREA, ONTARIO

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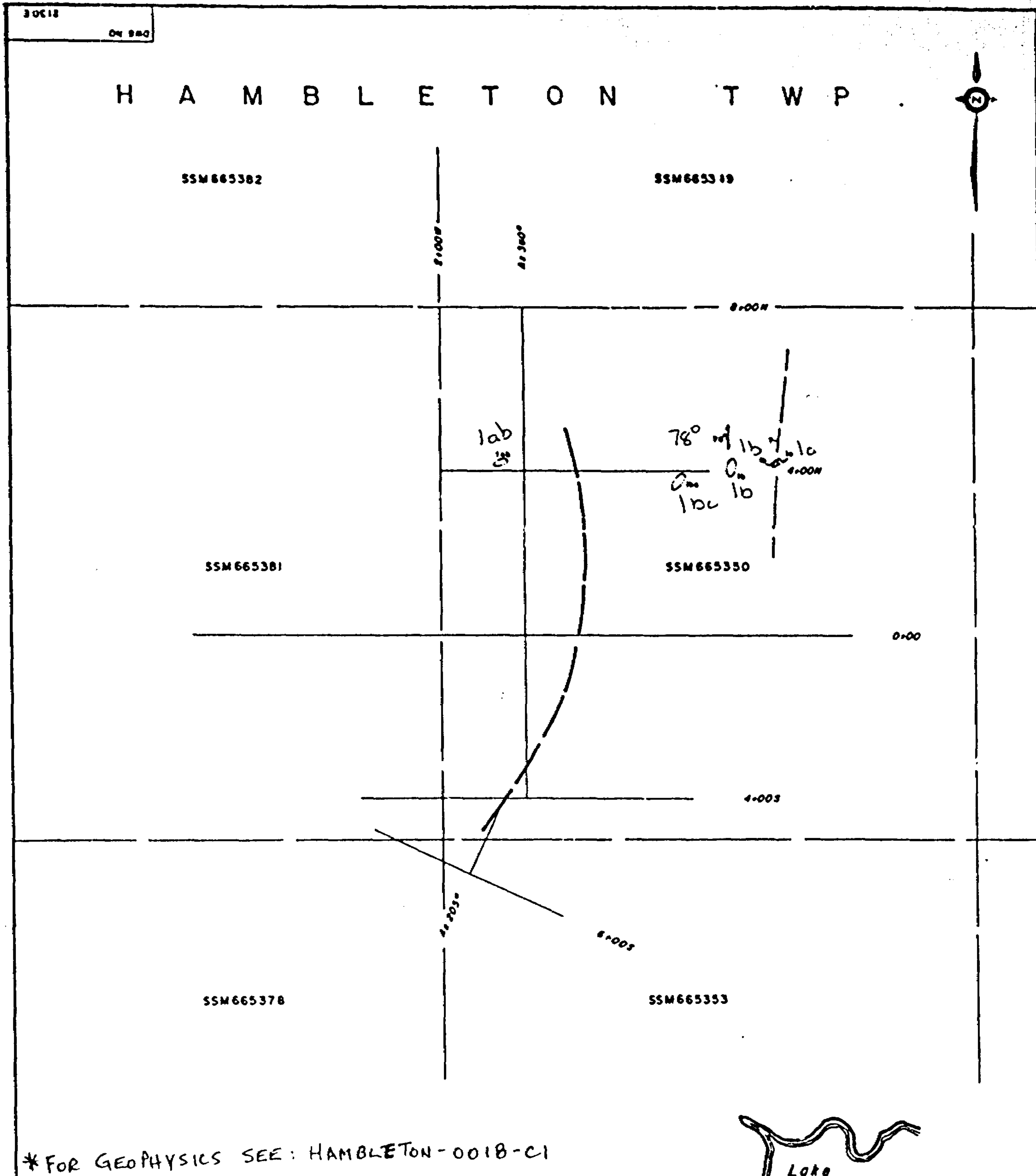

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Teck Explorations Limited

PEZAMERICA RESOURCES CORPORATION

OPERATION PEZAMERICA
DAYOHESSARAH AREA, ONTARIO

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1 inch = 200 feet

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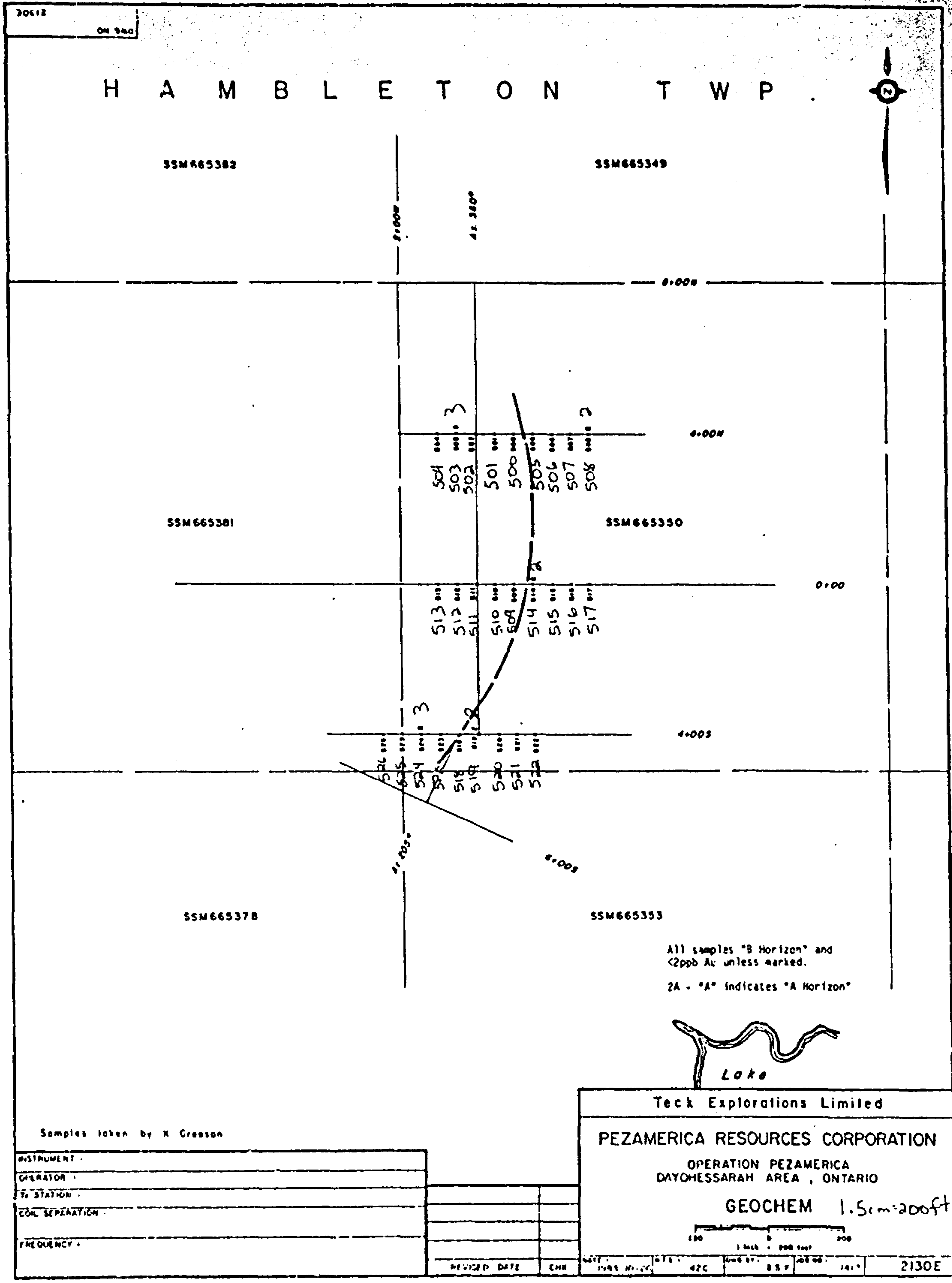

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Teck Explorations Limited
PEZAMERICA RESOURCES CORPORATION
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DAYOHESSARAH AREA , ONTARIO
GEOCHEM 1.5cm=200ft
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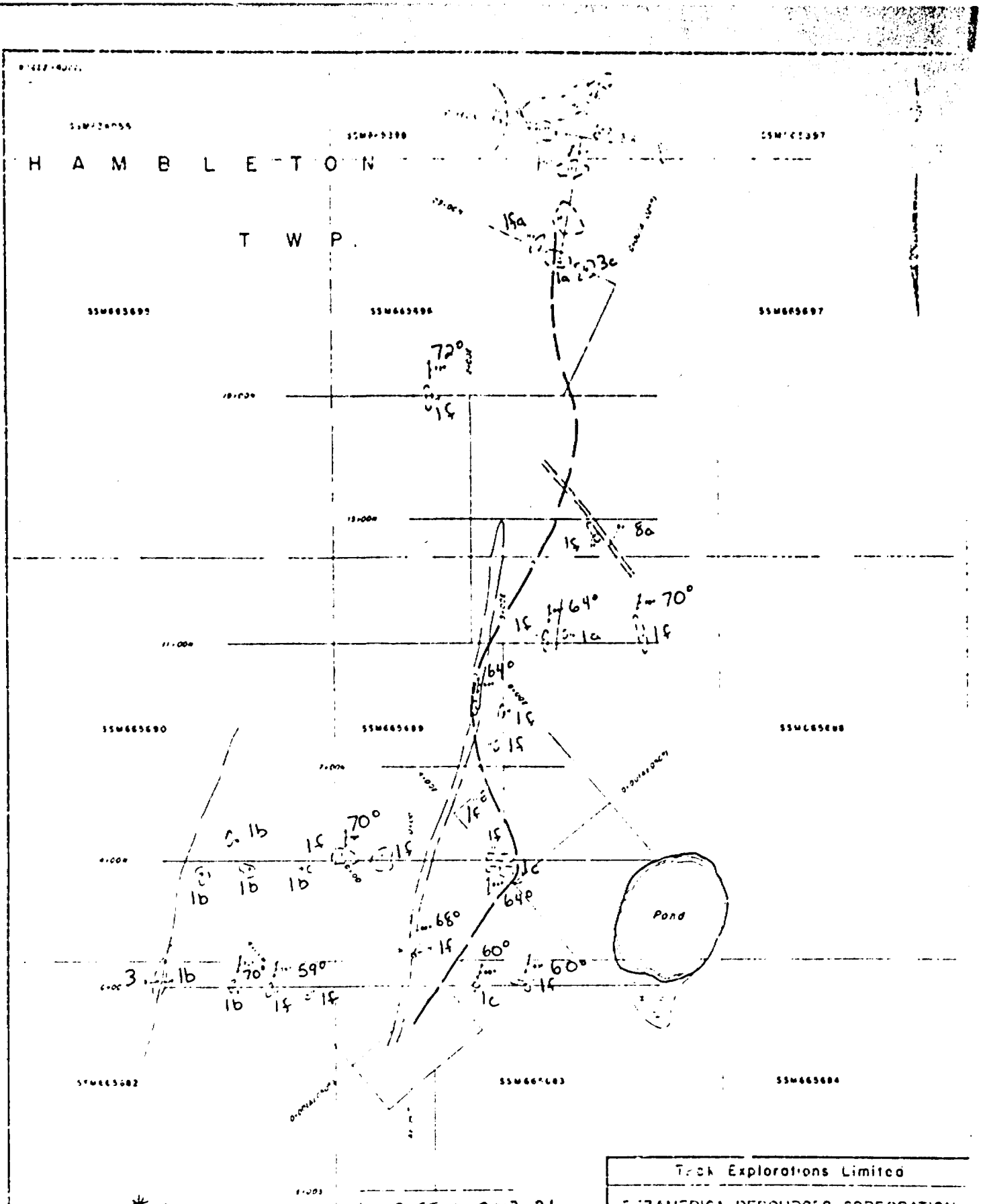

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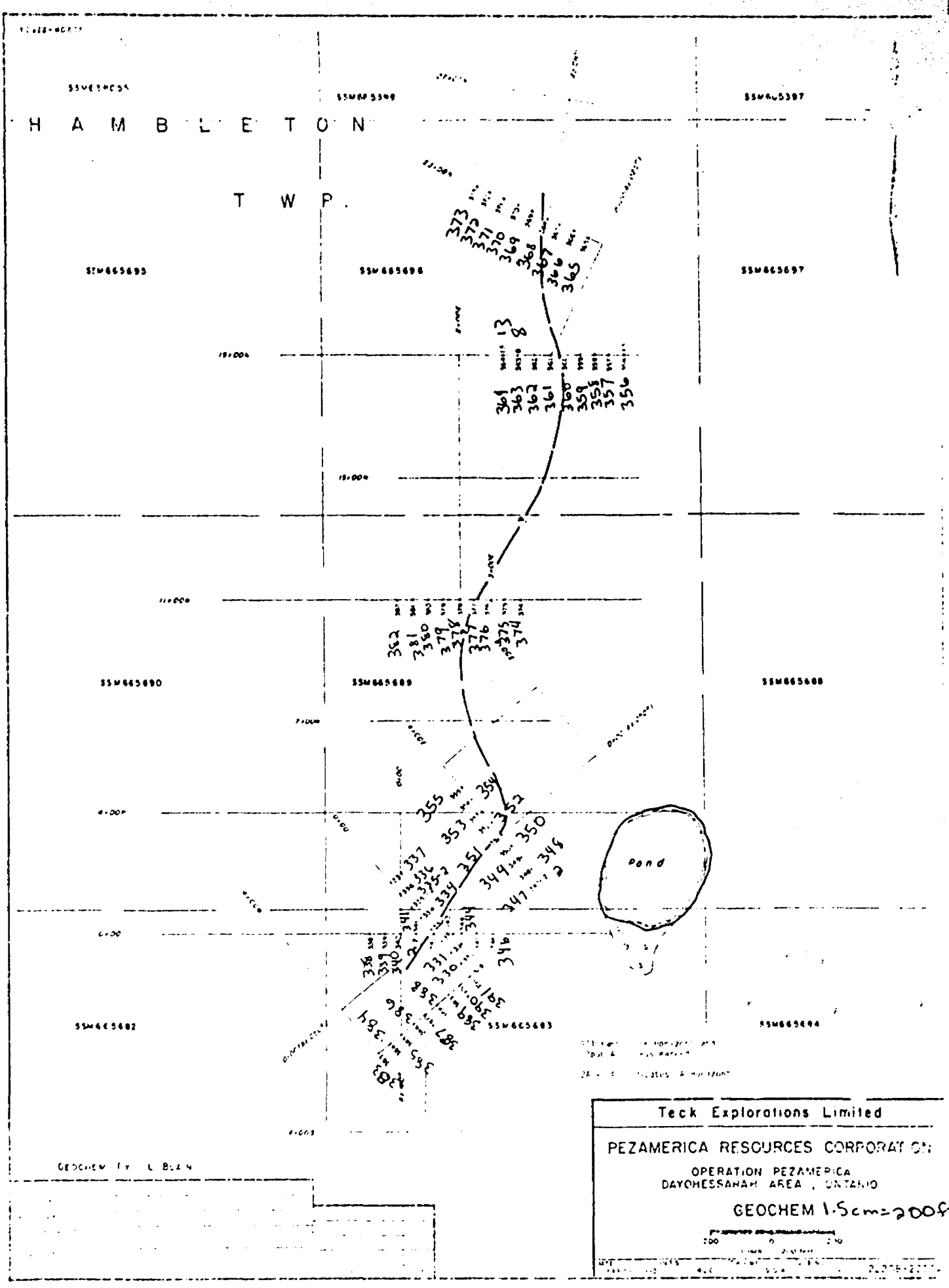
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PEZAMERICA RESOURCES CORPORATION
OPERATION PEZAMERICA
DAYOHESSARAH AREA, ONTARIO
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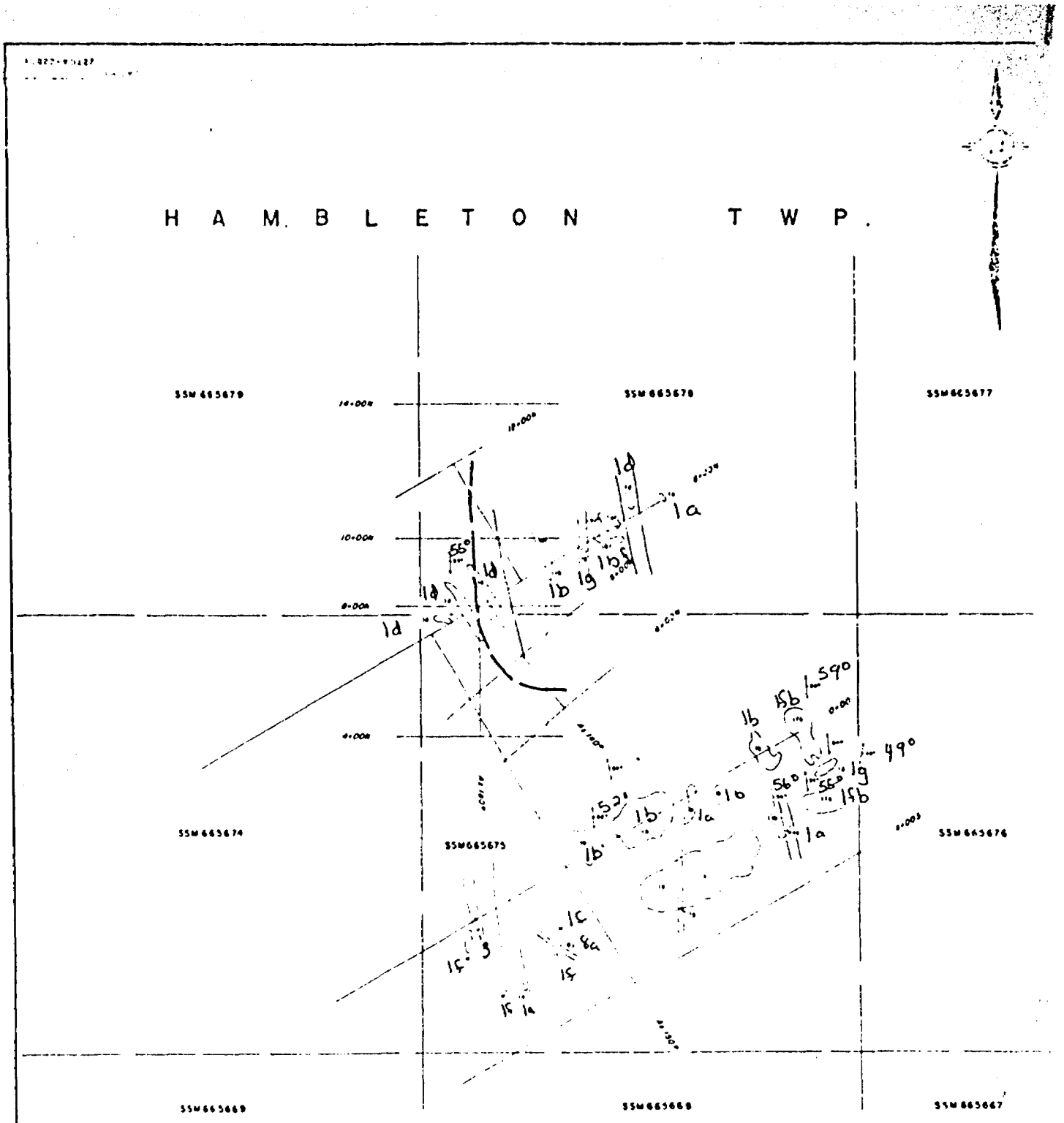

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OPERATION PEZAMERICA
DAYOHESSARAH AREA, ONTARIO

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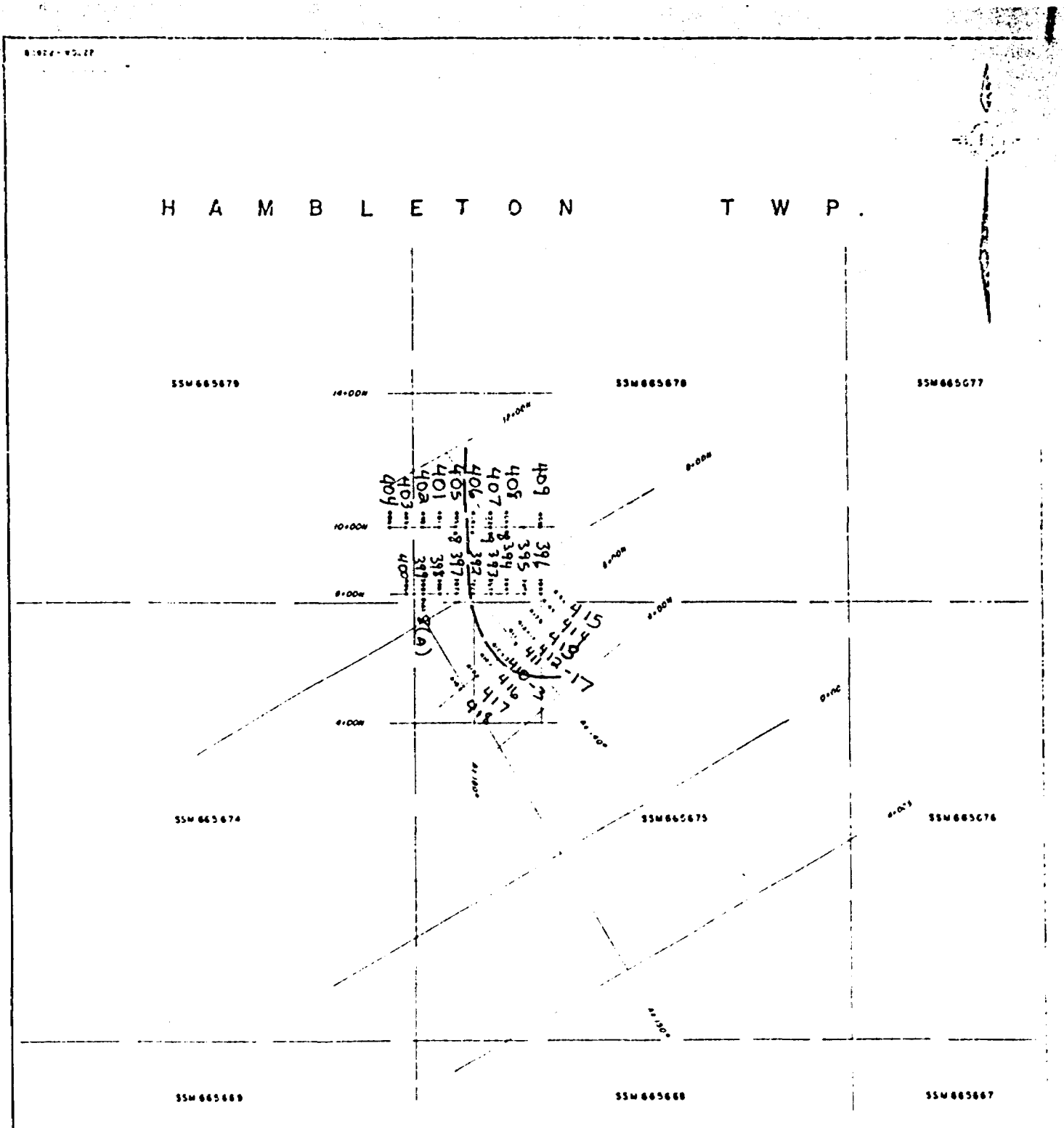

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PEZAMERICA RESOURCES CORPORATION

OPERATION PEZAMERICA
DAYOHESSARAH AREA ONTARIO

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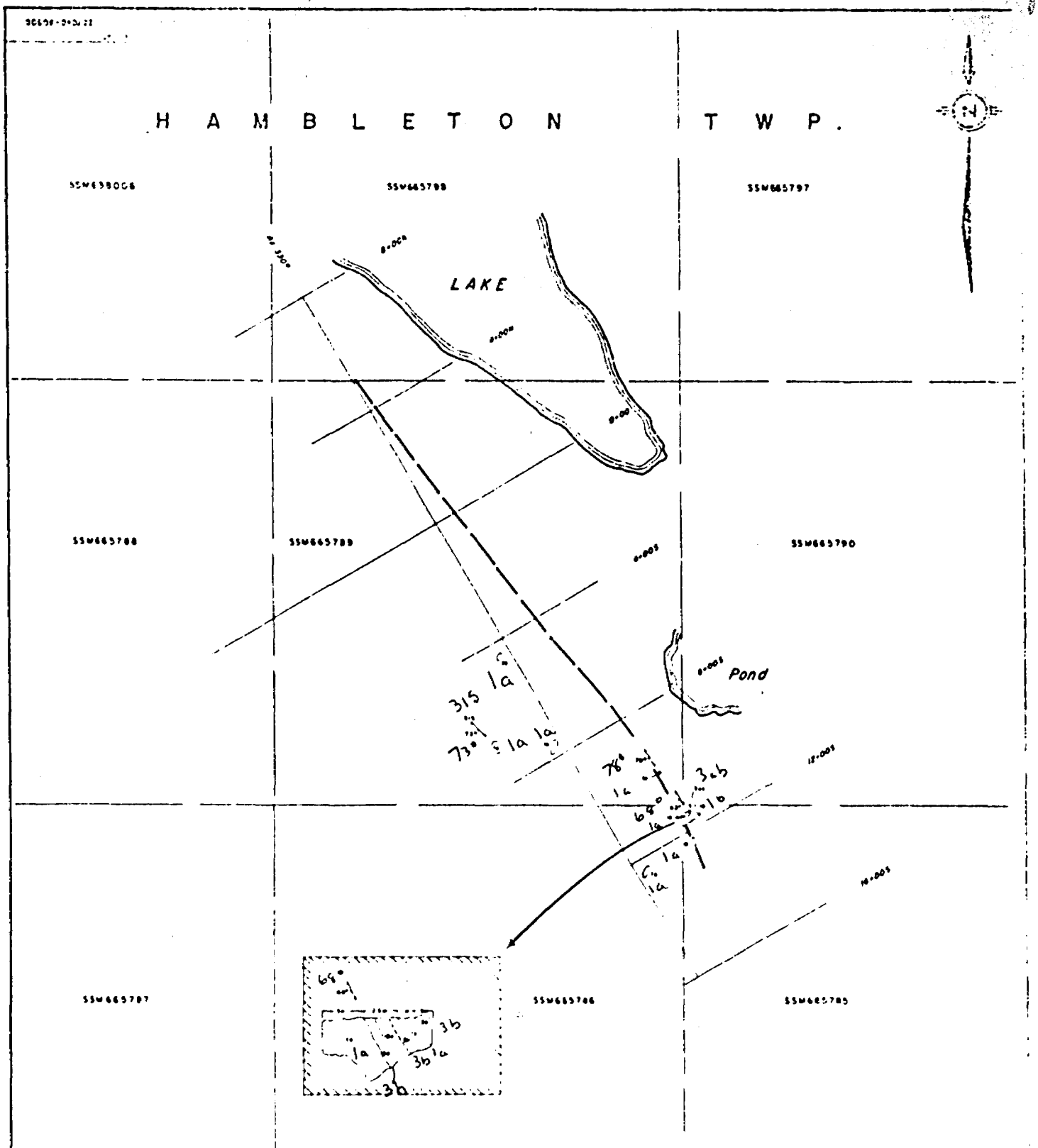

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OPERATION PEZAMERICA
CAYOHESSARAH AREA, ONTARIO

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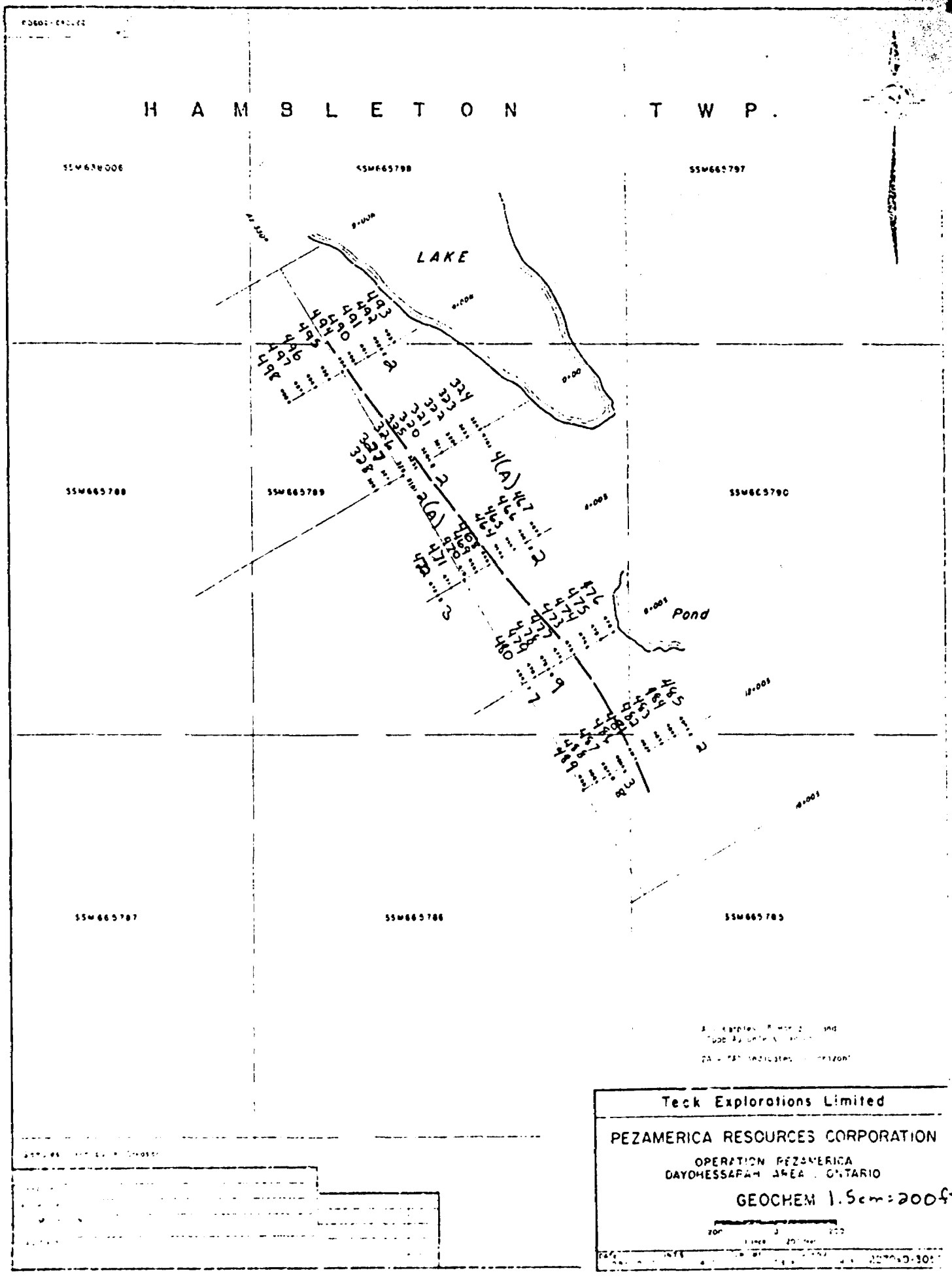
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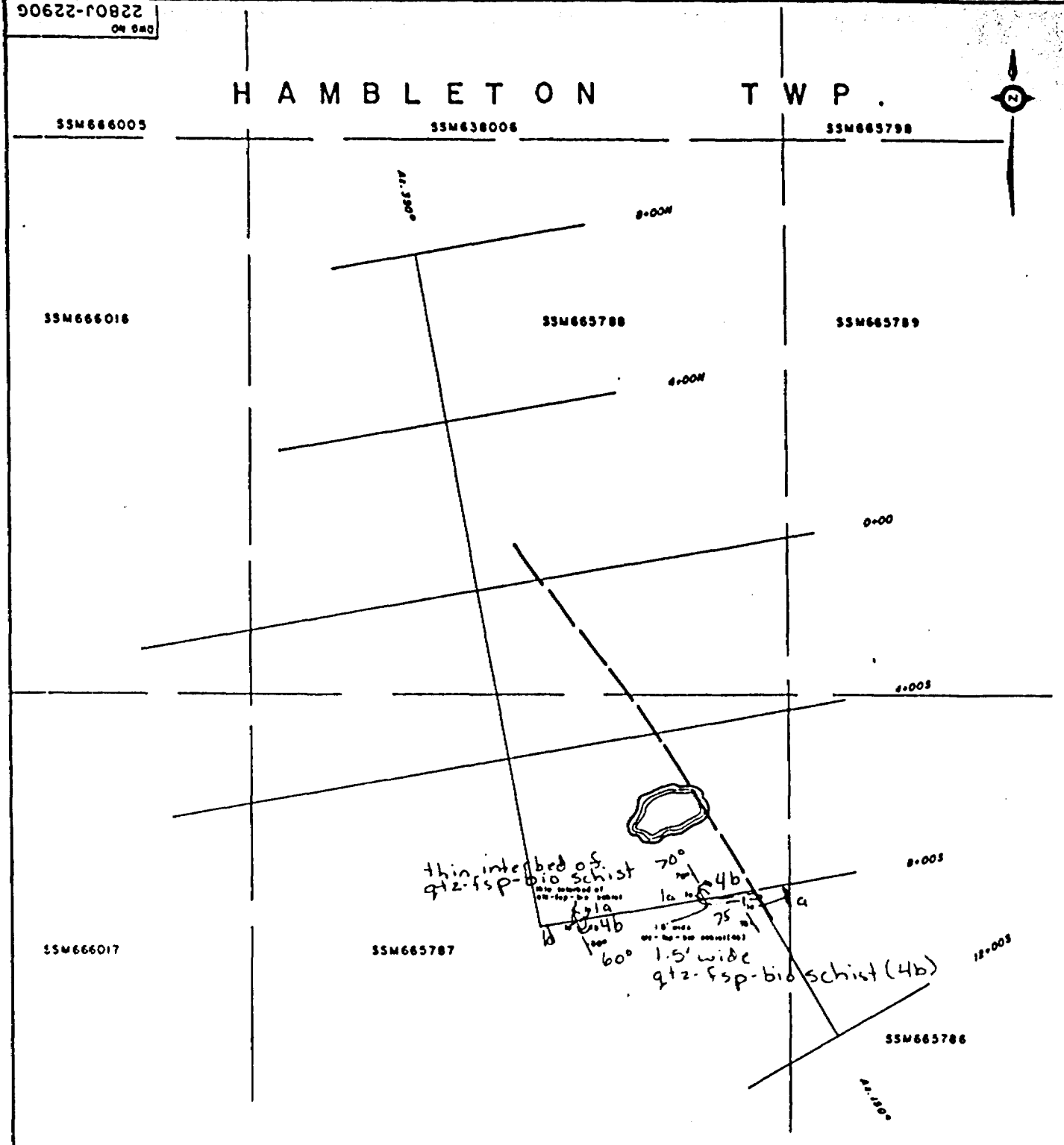
SSM665797
LAKE
SSM665788
SSM665789
SSM665790
Pond
SSM665787
SSM665786
SSM665785
Teck Explorations Limited
PEZAMERICA RESOURCES CORPORATION
OPERATION PEZAMERICA
GEOCHEM 1.5cm=200ft

2280J-2290G
ON BMG

HAMBLETON TWP.



FOR GEOPHYSICS SEE: HAMBLETON-0014:C1

GEOLOGY BY W. PENNO

INSTRUMENT:	
OPERATOR	
TS STATION:	
COIL SEPARATION:	
FREQUENCY:	

REVISED DATE | CHK

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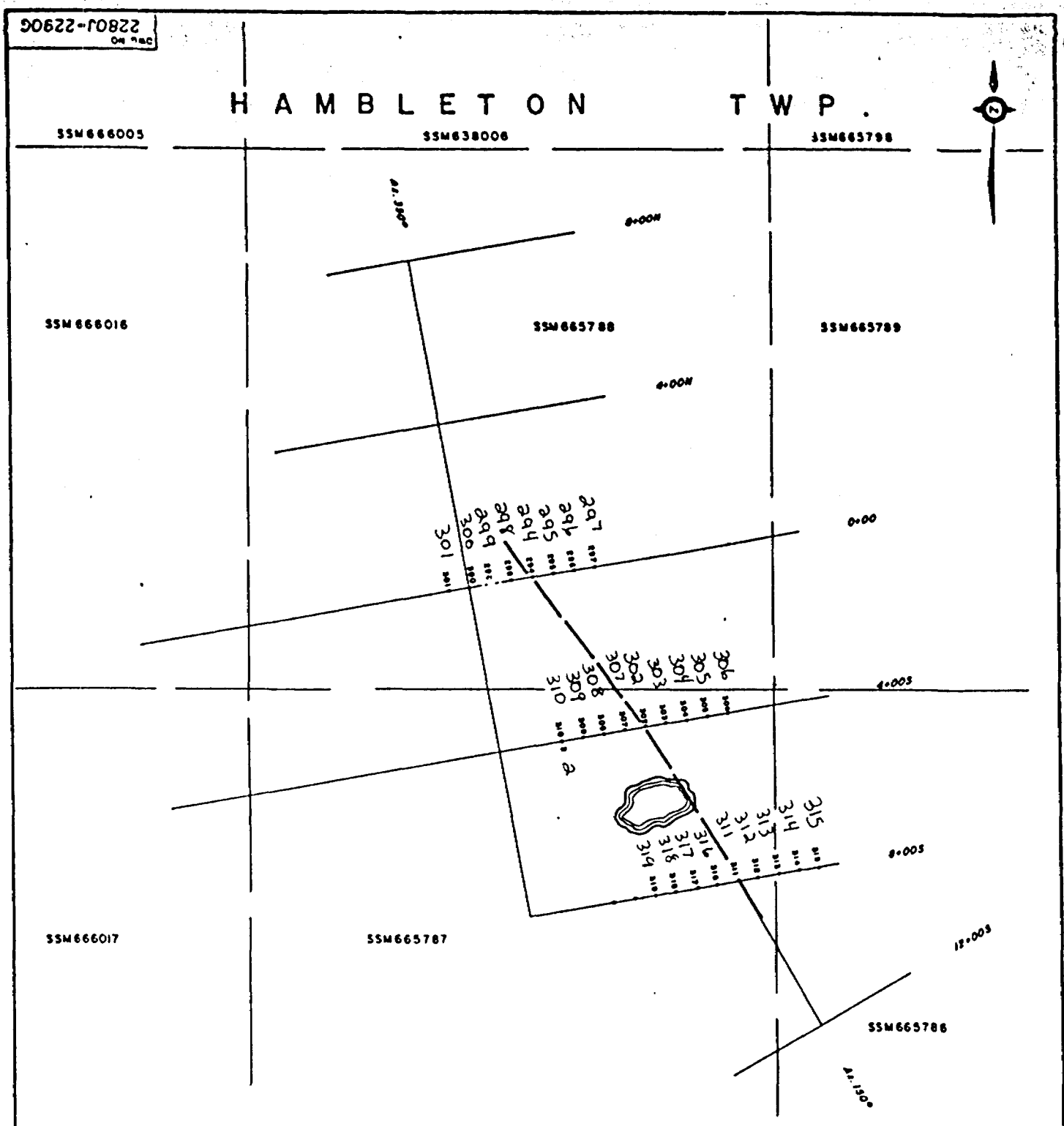
OPERATION PEZAMERICA
DAYOHESSARAH AREA, ONTARIO

GEOLOGY 1.5cm=200ft

800 0 800 feet
1 inch = 800 feet

DATE: 1983-10-13	DWG BY: CEK	JOB NO: 1413	2280J-2290G



All samples "B Horizon" and <2ppb Au unless marked.

2A - "A" indicates "A Horizon"

SAMPLES TAKEN BY K.GREASON

INSTRUMENT:	
OPERATOR:	
TX STATION:	
COIL SEPARATION:	
FREQUENCY:	

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OPERATION PEZAMERICA
DAYOHESSARAH AREA, ONTARIO

GEOCHEM 1.5cm=200 ft

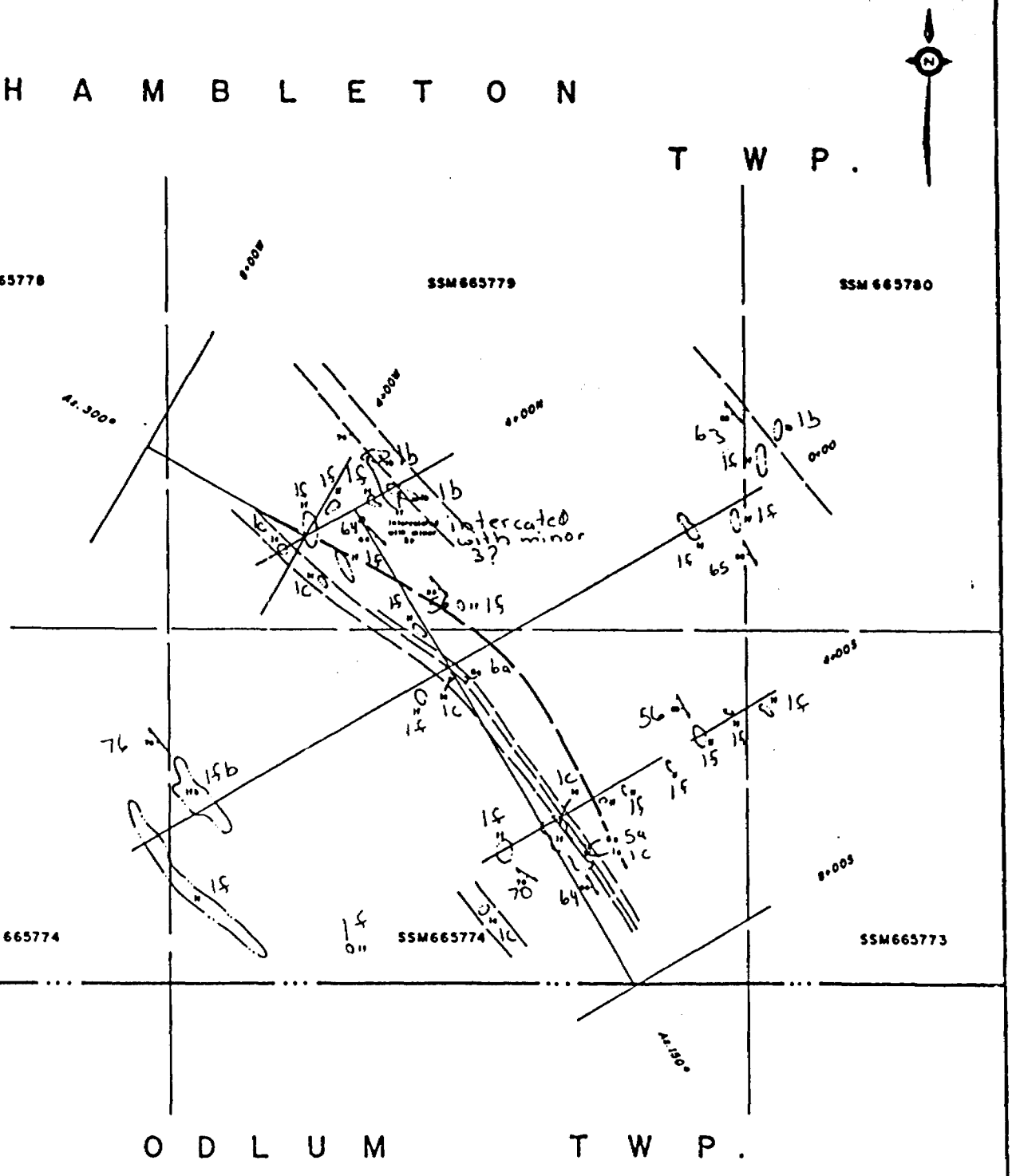
200 0 200
1 inch = 200 feet

REVISED DATE	CHK

DATE:	DTB:	DWG BY:	JOB NO:	2280J-22906
[illegible]	420	C.F.V	1413	

80605

ON 900



FOR GEOPHYSICS SEE: HAMBLETON - 0015 - A1

GEOLOGY BY W. PENNO

INSTRUMENT	
OPERATOR	
TO STATION	
COIL SEPARATION	
FREQUENCY	

REVISED DATE | CHK

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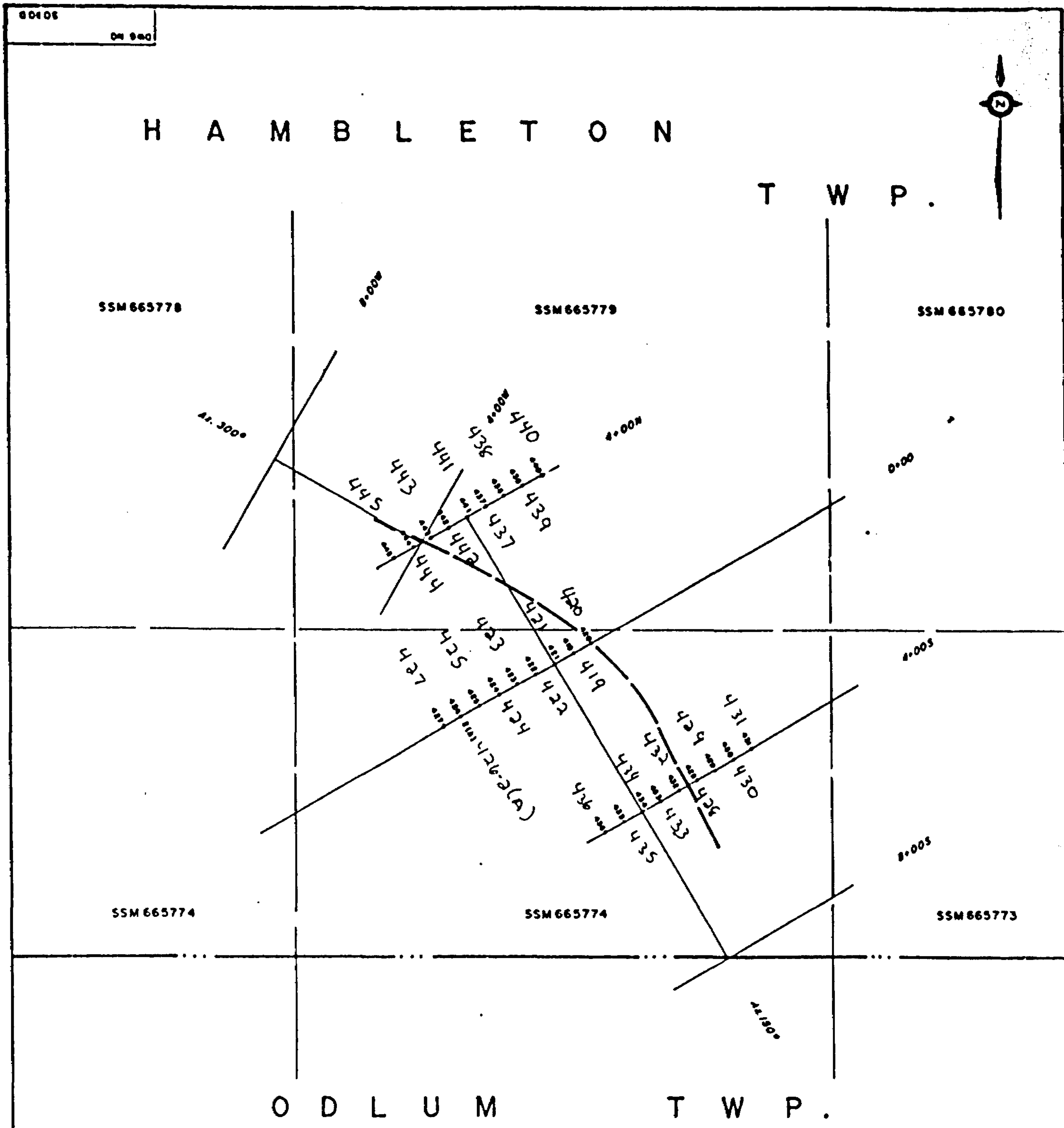
OPERATION PEZAMERICA
DAYOHESSARAH AREA, ONTARIO

GEOLOGY 1.6cm = 200ft

200 0 200 Feet
1 inch = 200 Feet

DATE	DWG	DRN BY	JOB NO.	
1985-10-11	42C	C.F.H.	1413	30900



All samples "B Horizon" and <2ppb Au unless marked.

2A - "A" indicates "A Horizon"

SAMPLES TAKEN BY K GREASON

INSTRUMENT	
OPERATOR :	
Tx STATION :	
COIL SEPARATION :	
FREQUENCY :	

REVISED DATE

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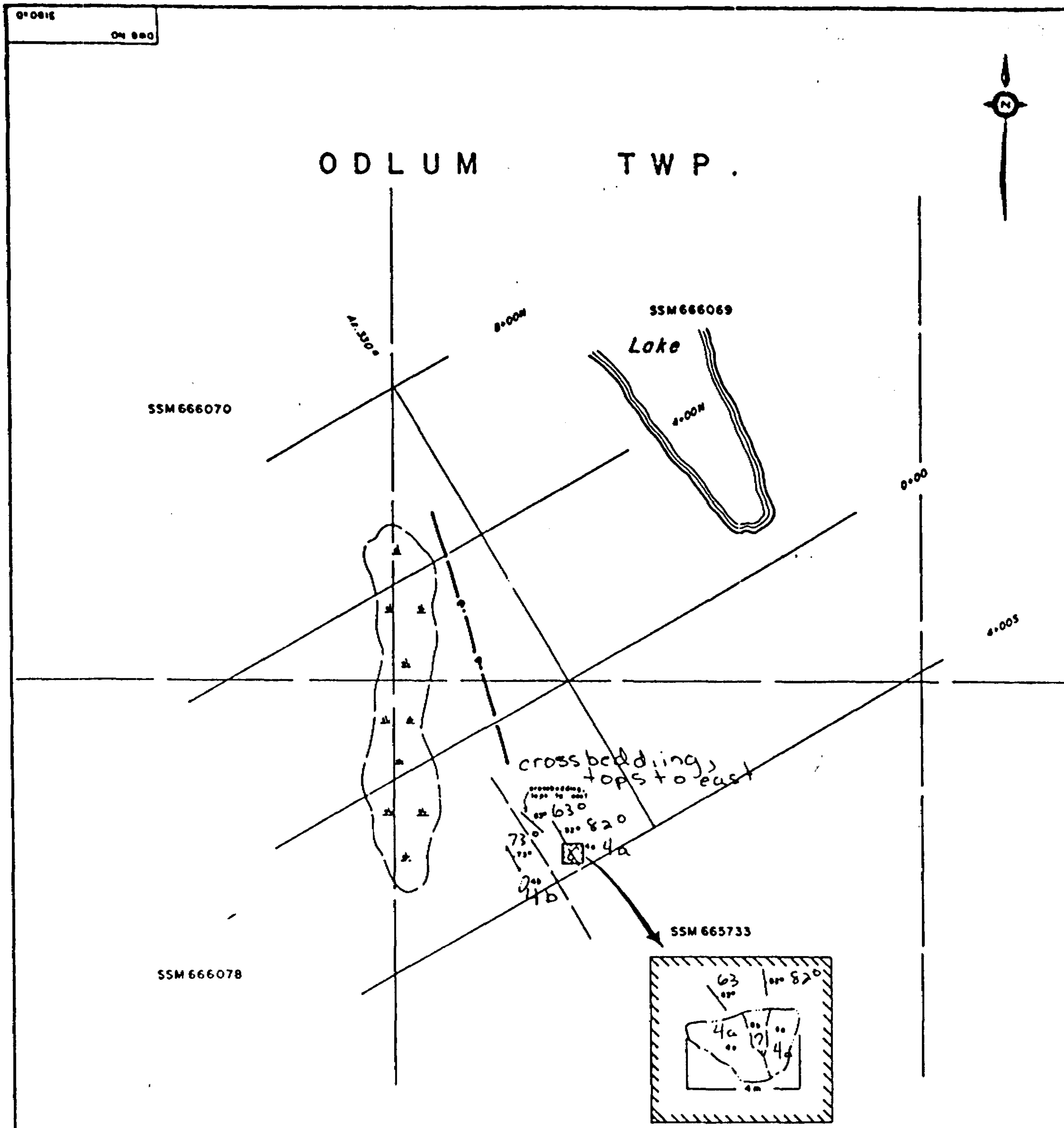
PEZAMERICA RESOURCES CORPORATION

OPERATION PEZAMERICA
DAYOHESSARAH AREA, ONTARIO

GEOCHEM 1.5cm = 200ft

30000



*FOR GEOPHYSICS SEE: ODLUM-0011-C1

GEOLOGY BY W. PENNO

INSTRUMENT :	
OPERATOR :	
1st STATION :	
COIL SEPARATION :	
FREQUENCY :	

REVISED DATE	CHK

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OPERATION PEZAMERICA
DAYOHESSARAH AREA , ONTARIO

GEOLOGY 1.5cm=200ft

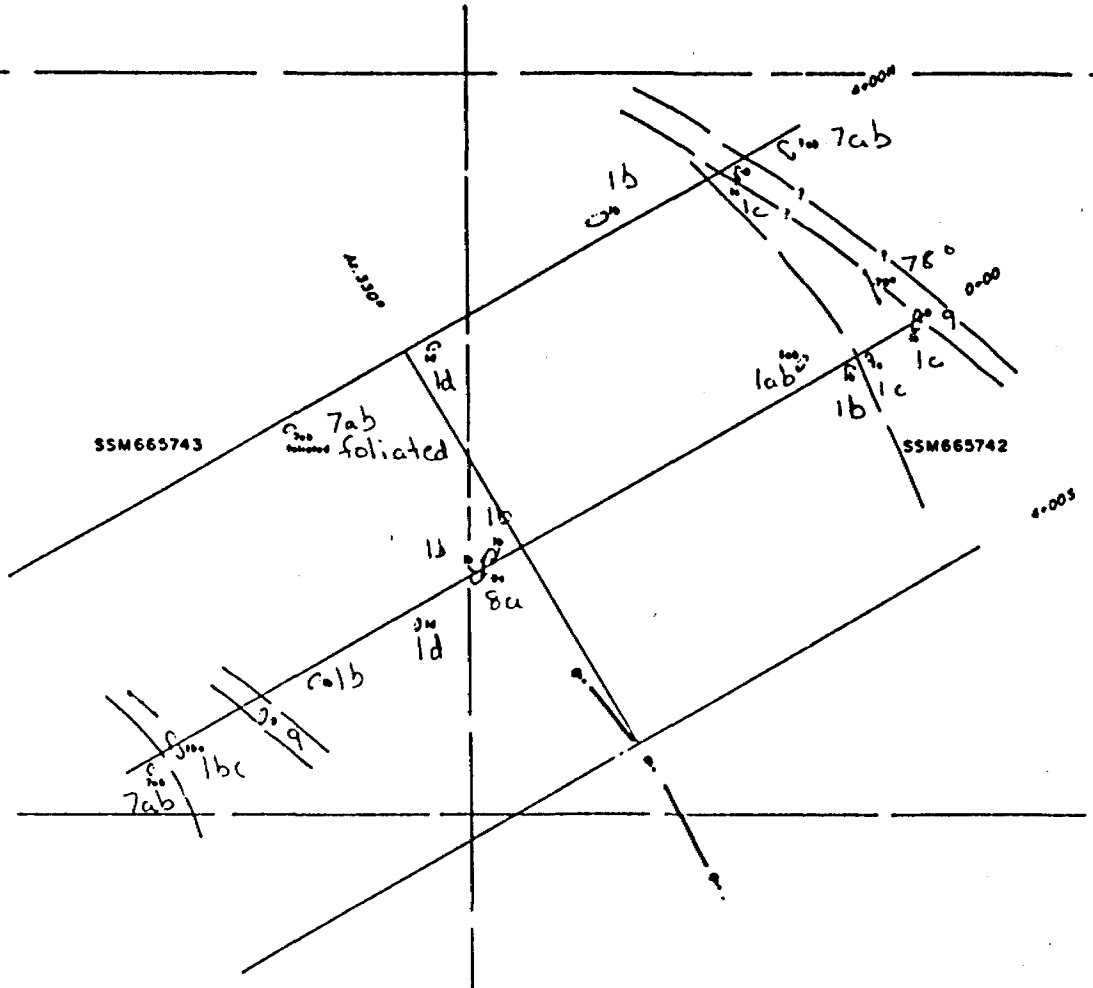
200 0 200
1 inch = 200 feet

3100xD

BOGIE

DIP 360

ODLUM TWP.



*FOR GEOPHYSICS SEE: ODLUM - 0013-C1

GEOLOGY BY W PENNO

INSTRUMENT :
OPERATOR :
TX STATION :
COIL SEPARATION :
FREQUENCY :

REVISED DATE | BY

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PEZAMERICA RESOURCES CORPORATION

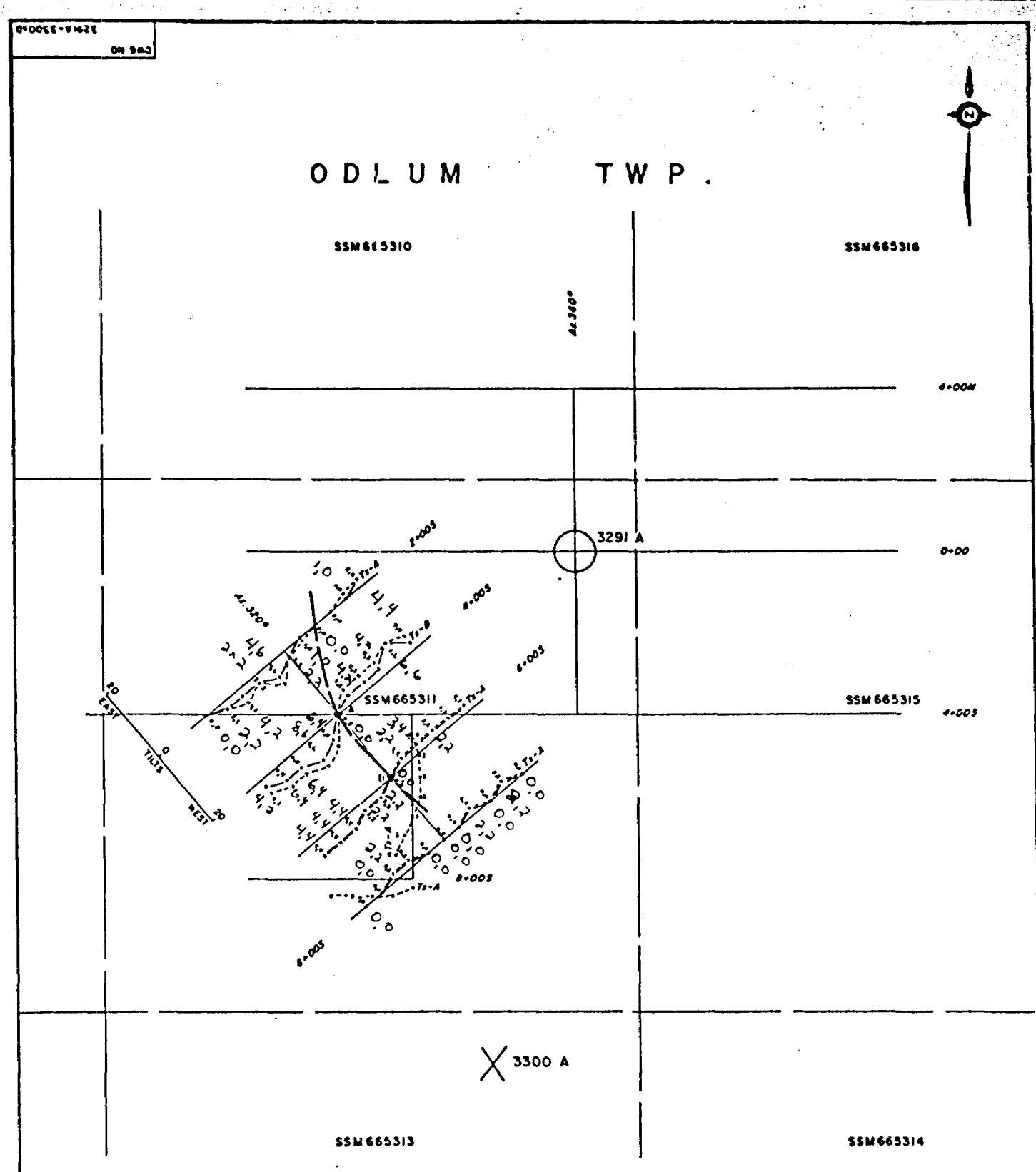
OPERATION PEZAMERICA
DAYOHESSARAII AREA, ONTARIO

GEOLOGY 1.5cm = 200 ft

200 0 200

1 inch = 200 feet

DATE: NOV-10-4	N/S	42E	DRG BY: C.E.P	DRG NO: 14-5	31906



*ADDITIONAL GEOPHYSICS SEE: ODLUM-0015-A1

INSTRUMENT:	CRONE C.E.M. UNIT
OPERATOR:	BLAKE, ASSELIN
T.x STATION:	
COIL SEPARATION:	
FREQUENCY:	1830 Hz. / 390 Hz.

REVISED DATE | CHK

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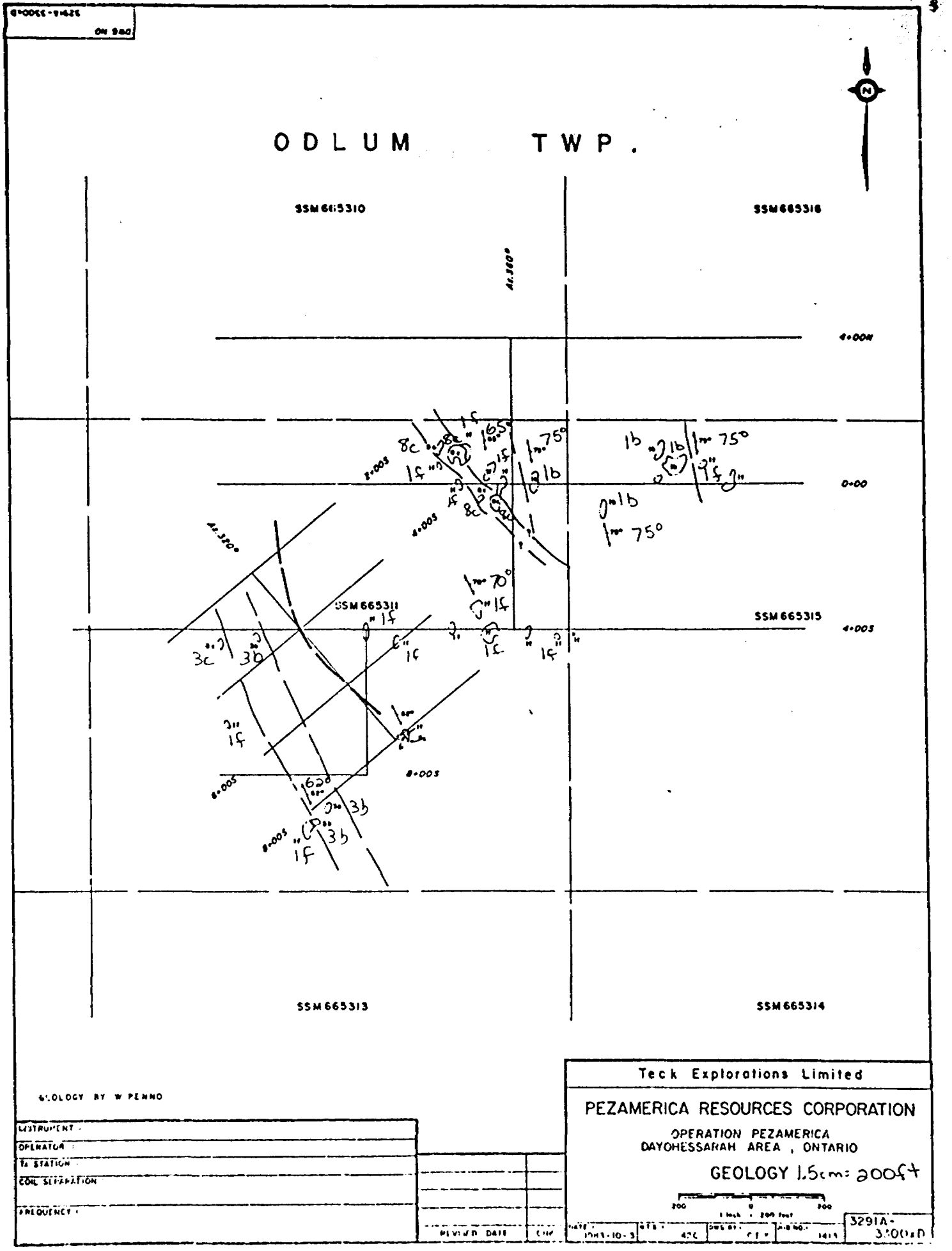
OPERATION PEZAMERICA
DAYONESSARAH AREA, ONTARIO

ELECTROMAGNETIC SURVEY

1.5cm = 200ft

200 0 200 Feet

DATE:	DWN:	CHK:	JOB NO:	3291A-3300A
JUNE-10-3	42C	C.E.P	1413	



GEOLOGY BY W PENNO

INSTRUMENT	
OPERATOR	
Tx STATION	
COIL SEPARATION	
FREQUENCY	

REVISED DATE

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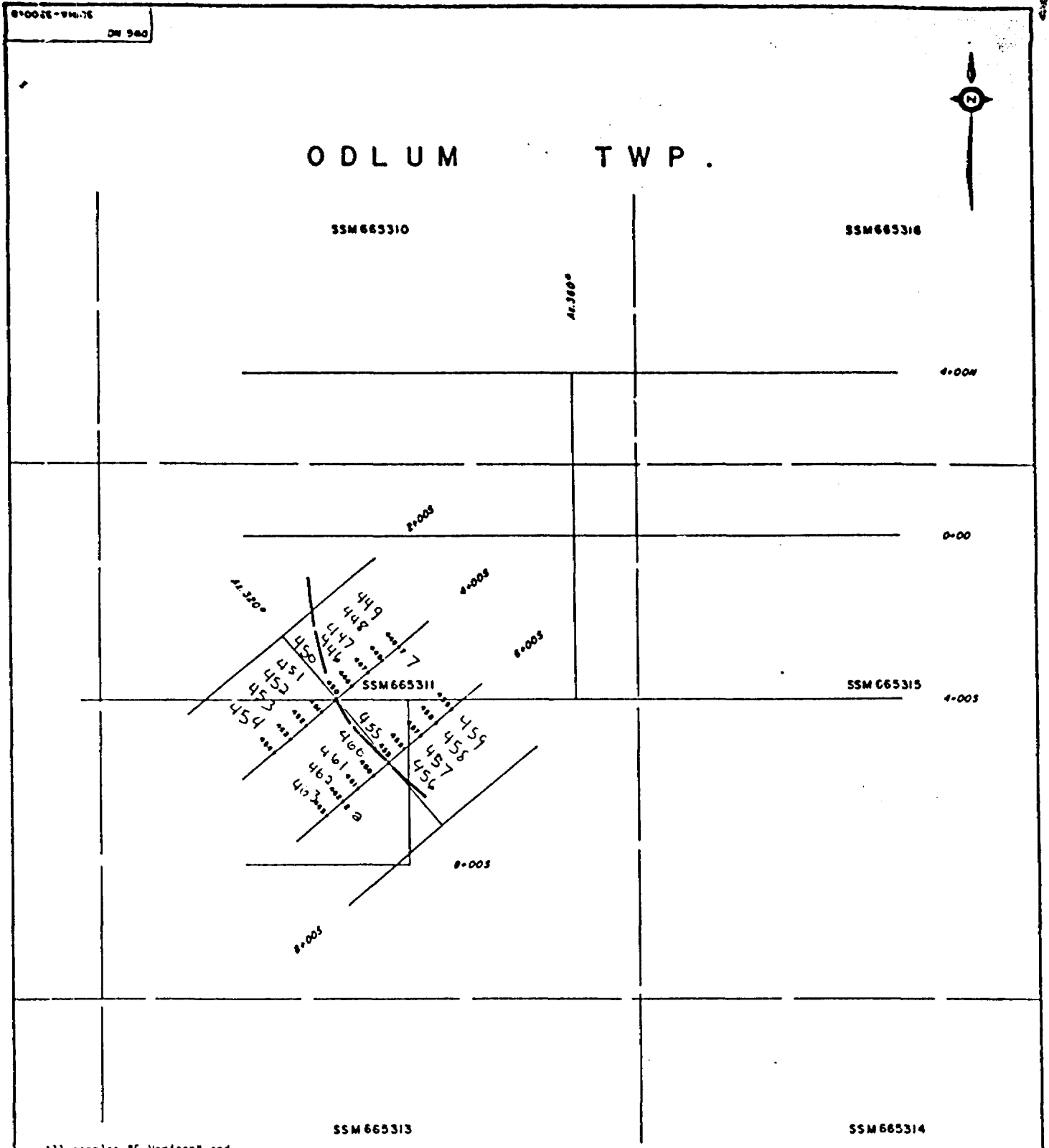
OPERATION PEZAMERICA
DAYOHESSARAH AREA, ONTARIO

GEOLOGY 1.5cm: 200ft

200 0 200 Feet
1 Inch = 200 Feet

DATE	DFT'D	DWG BY	DWG NO.
1983-10-3	ATC	C.F.	1419

3291A-3.001.D



All samples "B Horizon" and <2ppb Au unless marked.

2A - "A" indicates "A Horizon"

SAMPLES TAKEN BY K. GREASON

INSTRUMENT	
OPERATOR	
Tx STATION	
COIL SEPARATION	
FREQUENCY	

REVISED DATE	CHK

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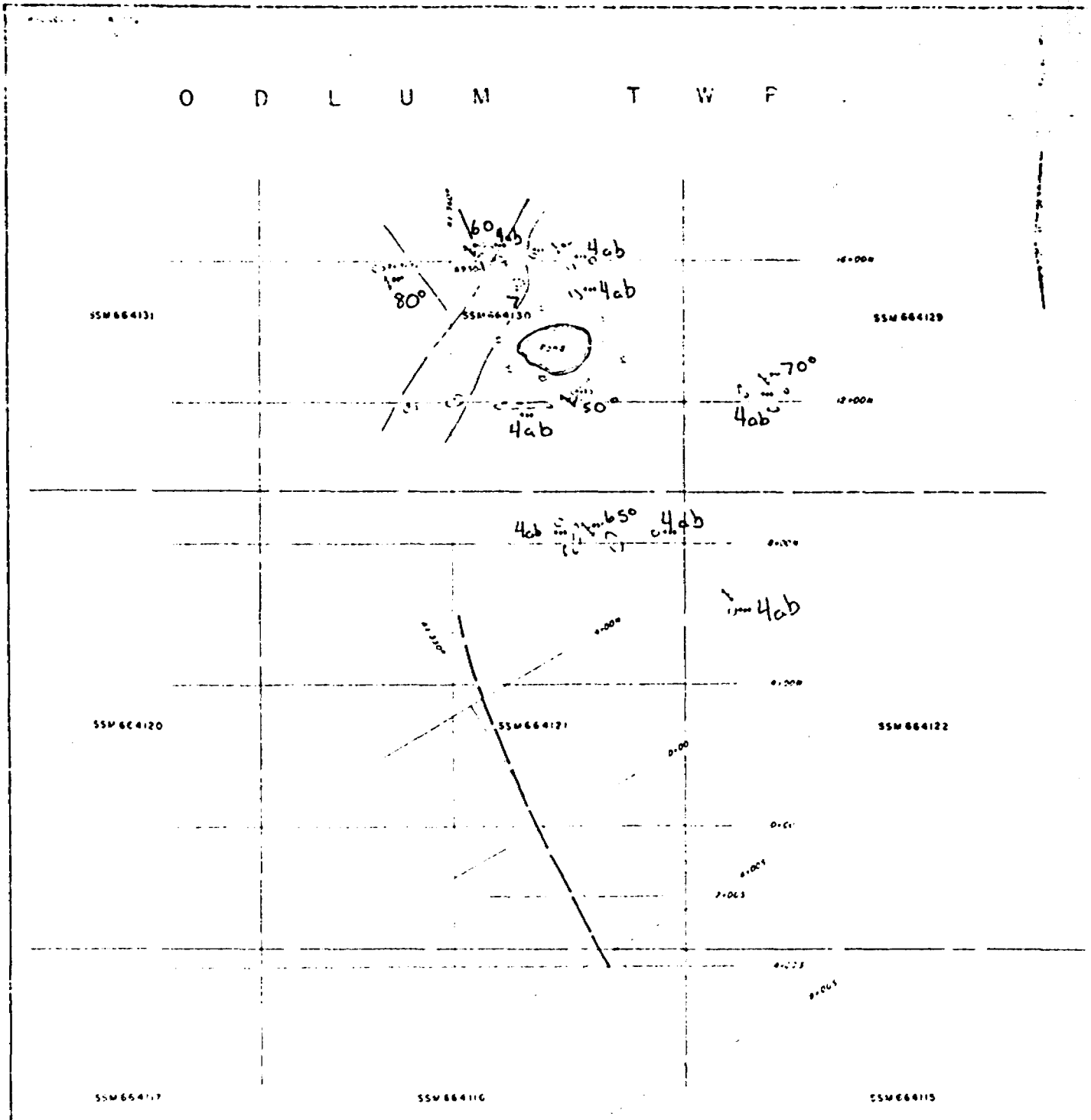
OPERATION PEZAMERICA
DAYOHESSARAH AREA, ONTARIO

GEOCHEM 1.5cm=200ft

200 0 200

1 inch = 200 feet

DATE:	DRN BY:	JOB NO:	
MAR-10-3	CEP	1413	3291A-3300xD



*FOR GEOPHYSICS SEE: ODLUM-0013-A1

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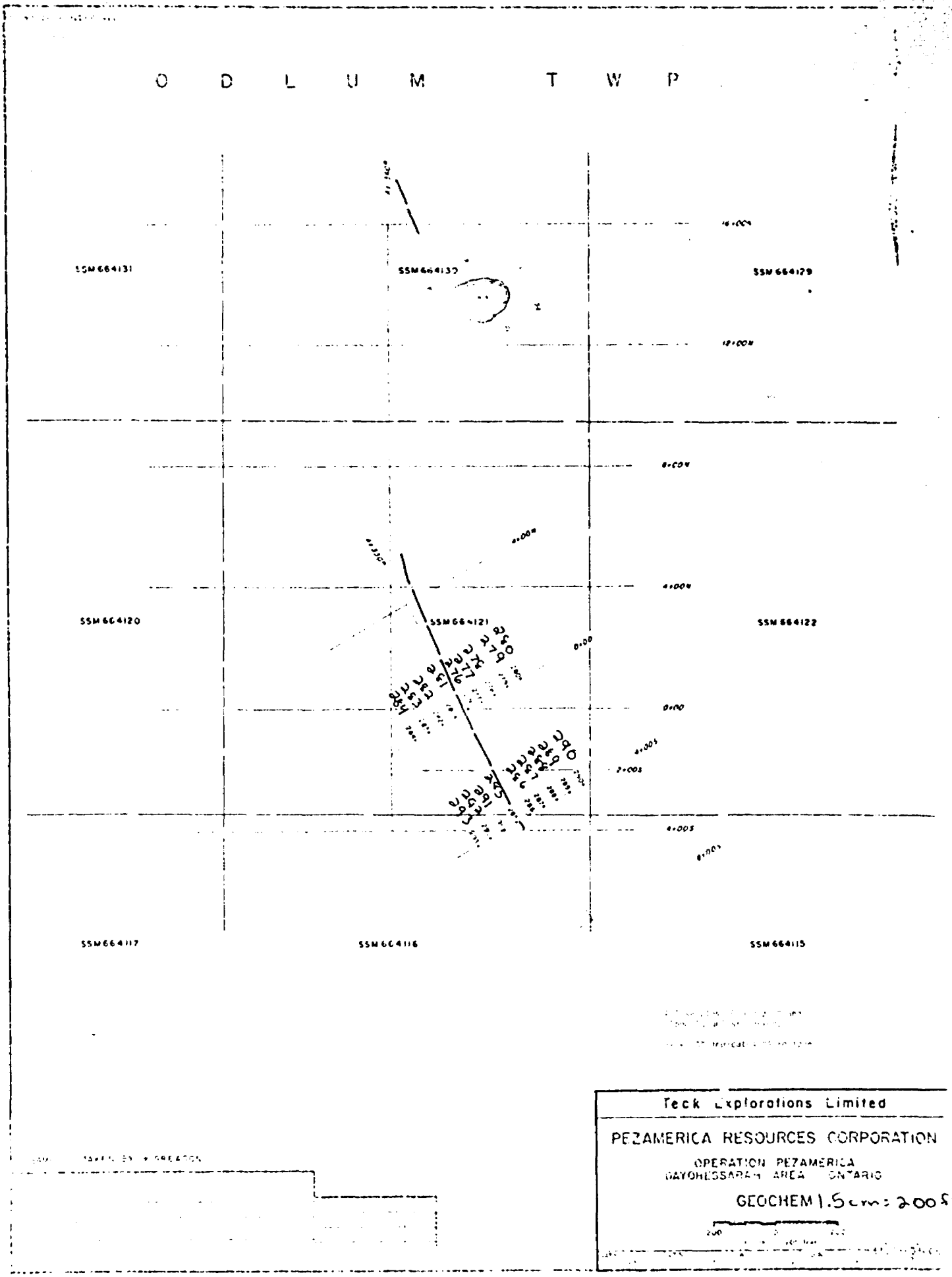
OPERATION PEZAMERICA
DA CHESSARAN AREA, ONTARIO

GEOLOGY 1.5cm = 200ft



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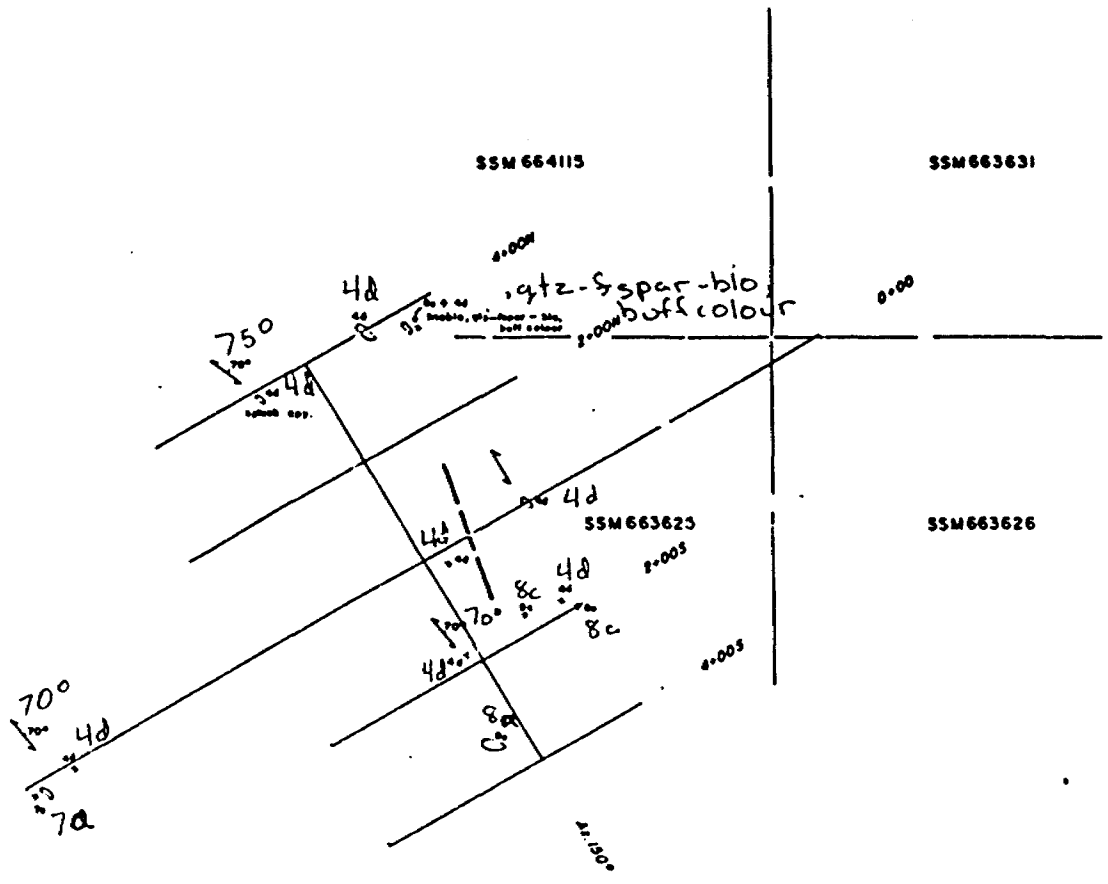
PEZAMERICA RESOURCES CORPORATION

OPERATION PEZAMERICA
DAYOHESSARAH AREA ONTARIO

GEOCHEM 1.5 cm = 200 ft

ODLUM TWP.



* FOR GEOPHYSICS SEE: ODLUM-0011-A1

GEOLOGY BY B BARNES

INSTRUMENT
OPERATOR
TX STATION
COIL SEPARATION
FREQUENCY

REVISED DATE

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PEZAMERICA RESOURCES CORPORATION

OPERATION PEZAMERICA
DAYOHESSARAH AREA, ONTARIO

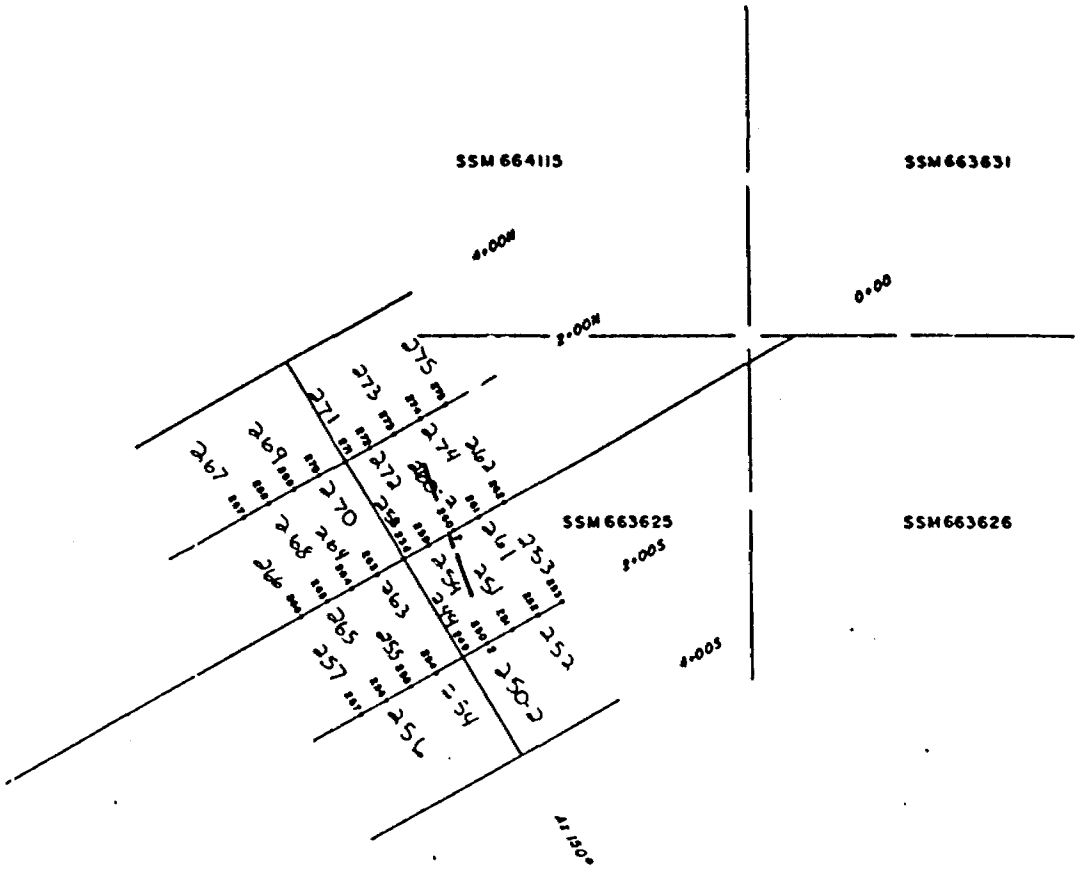
GEOLOGY 1.5cm=200ft

200 0 200

3390A

3390A

ODLUM TWP.



All samples "B Horizon" and <2ppb Au unless marked.

2A - "A" indicates "A Horizon"

SAMPLES TAKEN BY K GHEASON

INSTRUMENT	
OPERATOR	
Ta STATION	
COIL SEPARATION	
FREQUENCY	

REVISED DATE | BY

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PEZAMERICA RESOURCES CORPORATION

OPERATION PEZAMERICA
DAYOHESSARAH AREA, ONTARIO

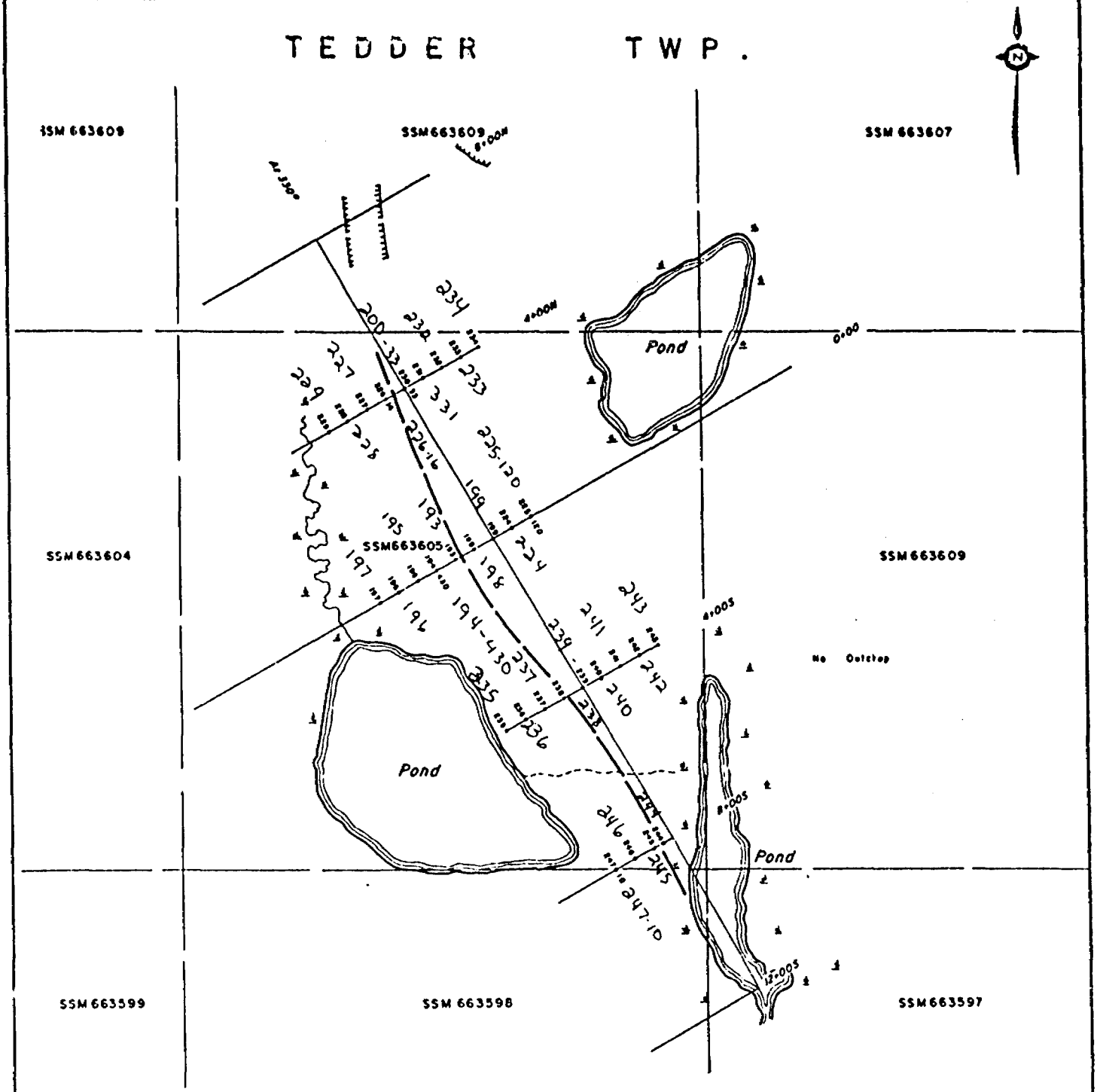
GEOCHEM 1:5cm=200ft

200 0 200

DATE	DWG #	SUB DWG #	SUB DWG #
MAR 10-83	42C	C.F.B.	1413 3390A

3450C-3470C

TEDDER TWP.



*FOR GEOPHYSICS SEE: TEDDER-0010-DI

All samples "B Horizon" and <2ppb Au unless marked.

2A - "A" indicates "A Horizon"

GEOLOGY BY: B. BARNES
GEOCHEM BY: K. GREASON

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PEZAMERICA RESOURCES CORPORATION

OPERATION PEZAMERICA
DAYOHESSARAH AREA, ONTARIO

GEOLOGY - GEOCHEM

1.5cm = 200ft

200 0 200

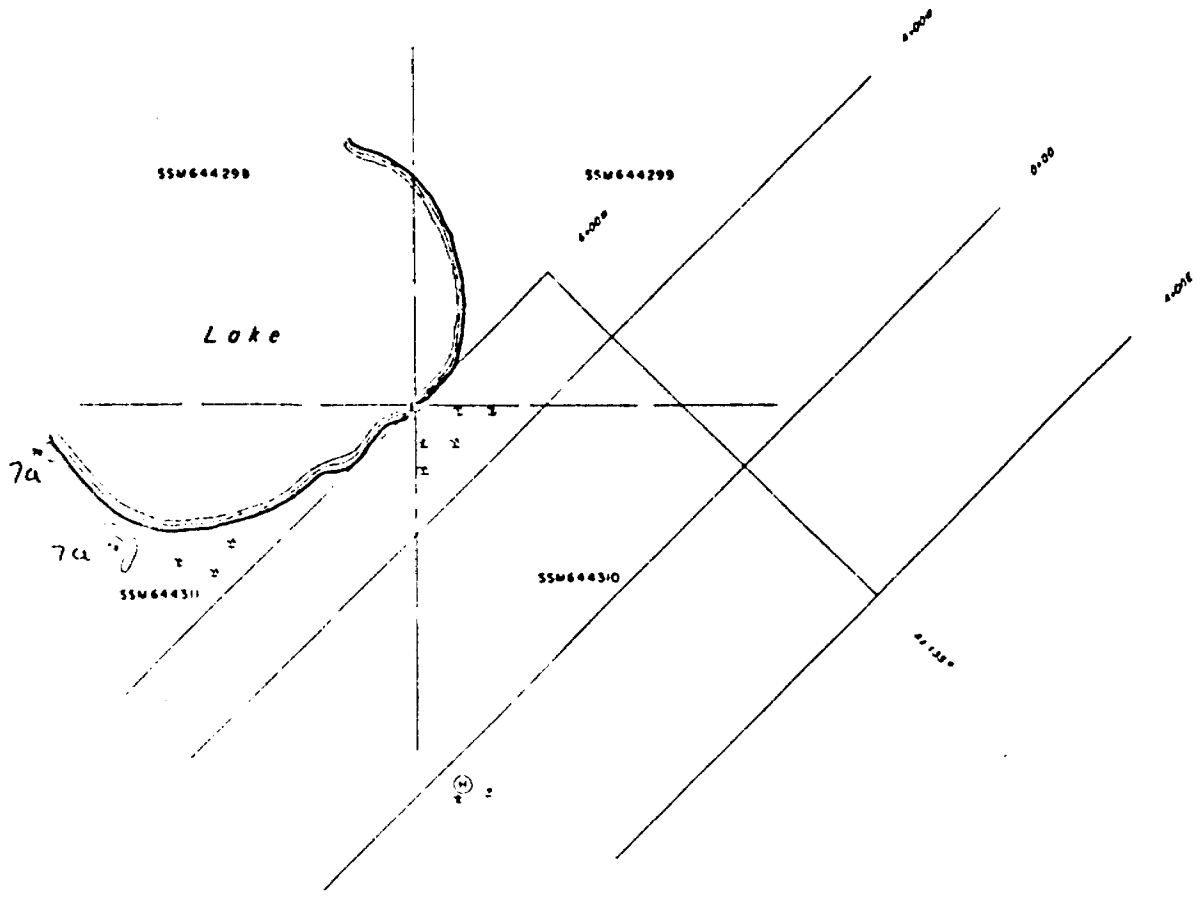
1 inch = 200 feet

INSTRUMENT:
OPERATION:
GRID STATION:
CONTOUR INTERVAL:
FREQUENCY:

REVISED DATE | CHK

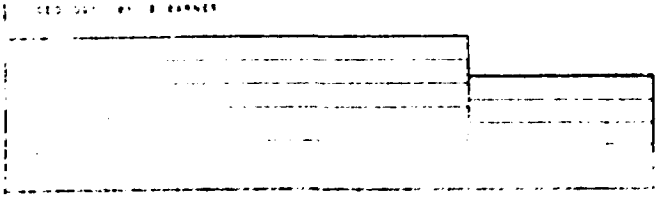
DATE: 1983-9-29 | NTS: 42C | DRN BY: C.E.K | PROJ: 1415 | 3450C-3470C

S T R I C K L A N D T W P.



C O O P E R T W P.

* FOR GEOPHYSICS SEE: COOPER-0010-A1



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PEZAMERICA RESOURCES CORPORATION

OPERATION PEZAMERICA
DAYOHESSARAH AREA, ONTARIO

GEOLOGY 1.5cm = 200ft

200 0 200

TABULATION OF CONDUCTORS Job Pezamerica

Conductor Designation		1110XA'	1190E	1210D
Airborne Anomaly Character	Max. mho value		1	1
	No. of lines/length	1/200m	1/200m	1/200m
	Depth estimated		0	5m
	Width estimated			
	Dip estimated			
	Mag. response (gammas)	Nil	Nil	Nil
O - Open X - Staked by others P - PEZAMERICA claims		P	P	P
FOLLOWUP	V.L.F. reconnaissance			
	V.E.M. reconnaissance			
	V.E.M. detail			x
	Horizontal Shootback E.M.	x	x	x
	MaxMin II/III			
	P.E.M.			
	Other geophysical surveys			
	Magnetometer survey	x	x	x
	Local geology mapped (checked)	x		x
	Conductor axis prospected			
	Conductor axis trenched			
	Conductor axis drilled			
	No. of geochem soil samples			
	No. of rock samples analysed			
	No of basal till samples			
Previous Activity				
RESULTS OF FOLLOWUP	Anomaly located: (?)	N	N	Y?
	Strike and dip of anomaly			1 line only
	Anomaly length			<200ft
	Anomaly width			Thin
	Conductivity thickness (mhos)			
	Parallel anomalies: (?)			N
	Magnetic amplitude (gamma)			Background
	Estimated depth to source			
	Depth to bedrock			
	Geological Description	Amphibolite-meta-sedimentary contact at south end of grid.	Amphibolite.	Metasediments.
	Geochemical Analysis R=Rock S=Soil (max. ppm) B.T.=Basal till (max.ppm)			
COMMENTS	Composition			
	True width			
	Rock Assays Spct=spectrographic A-normal assays AA=atomic absorption (max. ppm)			
Conclusion or Recommendation		Very weak anomaly not located. No further work.	Weak anomaly. Not located. No further work.	Very weak DIGHEM anomaly possibly located with CEM but not traceable with VEM. No further work.

TABULATION OF CONDUCTORS Job Pezamerica

Conductor Designation		1320XA	1330XB-1350D	1650E-2090B
Airborne Anomaly Character	Max. mho value		2	1
	No. of lines/length	1/200m	3/2500ft	5/2500ft
	Depth estimated		40ft	0 to 110ft
	Width estimated			Thin
	Dip estimated			
	Mag. response (gammas)	Nil	Nil	0 to 120g
O - Open X - Staked by others P - PEZAMERICA claims		P	P	P
FOOTWALL GROUND	V.L.F. reconnaissance			
	V.E.M. reconnaissance			
	V.E.M. detail	x	x	x
	Horizontal Shootback E.M.	x	x	x
	MaxMin II/III			
	P.E.M.			
	Other geophysical surveys			
	Magnetometer survey	x	x	x
	Local geology mapped (checked)	x	x	x
	Conductor axis prospected			
	Conductor axis trenched			
	Conductor axis drilled			
	No. of geochem soil samples	39	24	18
	No. of rock samples analysed			
	No of basal till samples			
Previous Activity				
RESULTS FOOTWALL GROUND	Anomaly located: (?)	Y	Y	Y
	Strike and dip of anomaly	60°; ?	75°; south	40°; east
	Anomaly length	400 ft	800 ft	200ft
	Anomaly width	Thin	Thin	Thin
	Conductivity thickness (mhos)			
	Parallel anomalies: (?)	N	N	N
	Magnetic amplitude (gammas)	Background	2000 gammas	800 gammas
	Estimated depth to source			
	Depth to bedrock			
	Geological Description	Metasediments.	Metasediments.	Amphibolite.
	Geochemical Analysis R=Rock S=Soil (max. ppm) B.T.=Basal till (max.ppm)	S-From <2 to 9ppb Au . (19 samples >2ppb - all humus)	S-From <2 to 4ppb Au. (6 samples >2ppb).	S-From <2 to 10ppb Au. (9 samples >2ppb).
COMMENTS	Composition			
	True width			
	Rock Assays Spct=spectrographic A-normal assays AA=atomic absorption (max. ppm)			
Conclusion or Recommendation		Very weak, doubtful conductor not traceable with VEM. No further work.	Moderate conductor with magnetic correlation. Drill target on line 4+00E.	Short conductor with good magnetic correlation and moderately high Au in soils in vicinity. Drill target on line 8+00N.

TABULATION OF CONDUCTORS Job Pezamerica

Conductor Designation		1670F-2110E	2070B	2100C-2160B
Airborne Anomaly Character	Max. mho value	2	1	95
	No. of lines/length	2/1200 ft	1/600 ft	7/6000ft
	Depth estimated	35 to 120 ft	25 ft	0 to 110ft
	Width estimated			Thin
	Dip estimated			
	Mag. response (gammas)	0 to 70 g	Nil	Nil
O - Open X - Staked by others P - PEZAMERICA claims		P	P	P
FOOTWALL GROUND	V.L.F. reconnaissance			
	V.E.M. reconnaissance			
	V.E.M. detail	x		x
	Horizontal Shootback E.M.	x	x	x
	MaxMin II/III			
	P.E.M.			
	Other geophysical surveys			
	Magnetometer survey	x	x	x
	Local geology mapped (checked)	x		x
	Conductor axis prospected			
	Conductor axis trenched			
	Conductor axis drilled			
	No. of geochem soil samples			153
	No. of rock samples analysed			
	No of basal till samples			
	Previous Activity			
RESULTS FOOTWALL GROUND	Anomaly located: (?)	Y	N	Y
	Strike and dip of anomaly	1 line, west		010°; west
	Anomaly length	<200ft		7200ft
	Anomaly width	Thin		Thin
	Conductivity thickness (mhos)			
	Parallel anomalies: (?)	N		N
	Magnetic amplitude (gammas)	Dipole negative		2400 gammas max
	Estimated depth to source			
	Depth to bedrock			
	Geological Description	Amphibolite.	OGS - Amphibolite.	Metasediments.
	Geochemical Analysis R=Rock S=Soil (max. ppm) B.T.=Basal till (max.ppm)			S-From <2 to 1550 Au. (23 samples > 2ppb).
COMMENTS	Composition			
	True width			
	Rock Assays Spct=spectrographic A-normal assays AA=atomic absorption (max. ppm)			
	Conclusion or Recommendation	Located on one line only with very high mag. Not traceable with vertical loop. Soil sample vicinity of axis and assay for Au.	Survey line too far south. Resurvey north of existing grid.	Strong, partially magnetic anomaly with coincident anomalous gold values. Drill target on line 20+00S or line 0+00.
	(map reference)		1650E(2090E)	

TABULATION OF CONDUCTORS

Job Pezamerica

Conductor Designation		2100D	2130E	2220B-2250A
Airborne Anomaly Character	Max. mho value	1	14	28
	No. of lines/length	1/600 ft	1/600 ft	4/3200 ft
	Depth estimated	0	115 ft	70 to 180 ft
	Width estimated	Thin	Thin	Thin
	Dip estimated			East
	Mag. response (gammas)	Nil	120g	Nil
O - Open X - Staked by others P - PEZAMERICA claims		P	P	P
FOOTWALL GROUND	V.L.F. reconnaissance			
	V.E.M. reconnaissance			
	V.E.M. detail		x	x
	Horizontal Shootback E.M.		x	x
	MaxMin II/III			
	P.E.M.			
	Other geophysical surveys			
	Magnetometer survey		x	x
	Local geology mapped (checked)		x	x
	Conductor axis prospected			
	Conductor axis trenched			
	Conductor axis drilled			
	No. of geochem soil samples		27	63
	No. of rock samples analysed			
	No of basal till samples			
Previous Activity				
RESULTS	Anomaly located: (?)		Y	Y
	Strike and dip of anomaly		05° to 40°; west	0°; east
	Anomaly length		800 ft	2700ft, broken
	Anomaly width		Thin	Thin
	Conductivity thickness (mhos)			
	Parallel anomalies: (?)		N	N
	Magnetic amplitude (gammas)		1500g	Up to 15000g
	Estimated depth to source			
	Depth to bedrock			
FOOTWALL GROUND	Geological Description	Shell - Andesite.	Amphibolite.	Amphibolite.
	Geochemical Analysis R=Rock S=Soil (max. ppm) B.T.=Basal till (max.ppm)		S-From <2 to 3ppb Au. (5 samples >2ppb).	S-From <2 to 13ppb Au. (8 samples >2ppb).
COMMENTARIAL	Composition			
	True width			
	Rock Assays Spct=spectrographic A-normal assays AA=atomic absorption (max. ppm)			
Conclusion or Recommendation		Moderately weak anomaly to be followed up in winter, 1984.	Strong anomaly with magnetic coincidence. Drill target on line 0+00.	Strong but broken, highly magnetic conductor. Drill target on line 11+00N

TABULATION OF CONDUCTORS Job Pezamerica

Conductor Designation		2260F	2270A-2280B	2270XD-3050D
Airborne Anomaly Character	Max. mho value	1	2	5
	No. of lines/length	1/600 ft	2/1500 ft	4/1500 ft
	Depth estimated	0	30 to 65 ft	5 to 120 ft
	Width estimated	Thin	Thin	Thin
	Dip estimated			
	Mag. response (gammas)	160g	Nil	80g
O - Open X - Staked by others P - PEZAMERICA claims		P	P	P
FOOTWALL GROUND	V.L.F. reconnaissance			
	V.E.M. reconnaissance			
	V.E.M. detail		x	
	Horizontal Shootback E.M.		x	x
	MaxMin II/III			x
	P.E.M.			
	Other geophysical surveys			
	Magnetometer survey		x	x
	Local geology mapped (checked)		x	x
	Conductor axis prospected			
	Conductor axis trenched			
	Conductor axis drilled			
	No. of geochem soil samples		27	44
	No. of rock samples analysed			
	No of basal till samples			
Previous Activity				
RESULTS FOOTWALL GROUND	Anomaly located: (?)		Y	Y
	Strike and dip of anomaly		0 to 110°; west	140°; west
	Anomaly length		700 ft	1600 ft
	Anomaly width		Thin	Thin
	Conductivity thickness (mhos)			
	Parallel anomalies: (?)		N	No
	Magnetic amplitude (gammas)		700g	4000g
	Estimated depth to source			
	Depth to bedrock			
	Geological Description	Shell - Andesite.	Amphibolite.	Mafic schists, minor felsic volcanics, minor pyrite.
	Geochemical Analysis R=Rock S=Soil (max. ppm) B.T.=Basal till (max.ppm)		S-From <2 to 17ppb Au. (7 samples >2ppb).	S-From <2 to 9ppb Au. (11 samples >2ppb).
COMMENTS	Composition			
	True width			
	Rock Assays Spct=spectrographic A-normal assays AA=atomic absorption (max. ppm)			
Conclusion or Recommendation		Weak anomaly on lake shore to be followed up in winter 1984.	Relatively strong, magnetic conductor with good gold values near axis. Drill target on line 8+00N.	Strong conductor in mafic volcanics. Weak Au values in soil in vicinity. Drill target on line 0+00.

TABULATION OF CONDUCTORS

Job Pezamerica

Conductor Designation		2280J-2290G	3090D	3180XD
Airborne Anomaly Character	Max. mho value	24	19	
	No. of lines/length	2/1200 ft	1/600 ft	1/600 ft
	Depth estimated	70 to 155 ft	40 ft	
	Width estimated	Thin	Thin	
	Dip estimated	West	West	
	Mag. response (gammas)	Nil	490g	Nil
O - Open X - Staked by others P - PEZAMERICA claims		P	P	P
FOOTWALL GROUP	V.L.F. reconnaissance			
	V.E.M. reconnaissance			
	V.E.M. detail	x		
	Horizontal Shootback E.M.	x	x	x
	MaxMin II/III		x	x
	P.E.M.			
	Other geophysical surveys			
	Magnetometer survey	x	x	x
	Local geology mapped (checked)	x	x	x
	Conductor axis prospected			
	Conductor axis trenched			
	Conductor axis drilled			
	No. of geochem soil samples	26	27	
	No. of rock samples analysed			
	No of basal till samples			
Previous Activity				
RESULTS FOOTWALL GROUP	Anomaly located: (?)	Y	Y	Y?
	Strike and dip of anomaly	150°; west	120° to 150°; west	170°; ?
	Anomaly length	800 ft	800 ft	400 ft
	Anomaly width	Thin	Thin	Thin
	Conductivity thickness (mhos)			
	Parallel anomalies: (?)	N	N	N
	Magnetic amplitude (gammas)	1500g	3000g	Background
	Estimated depth to source			
	Depth to bedrock			
	Geological Description	Mafic volcanics, quartz-feldspar-biotite schist.	Amphibolite gneiss with minor felsic bands and minor gabbro.	Quartz-feldspar-biotite schist, mafic dyke.
	Geochemical Analysis R=Rock	S-From <2 to 2ppb Au. (1 sample of 2ppb).	S-From <2 to 2ppb Au. (1 sample of 2ppb).	
COMMENTS	Composition			
	True width			
	Rock Assays Spct=spectrographic A-normal assays AA=atomic absorption (max. ppm)			
Conclusion or Recommendation		Good conductor with mag coincidence on one line. Drill target on line 0+00.	Strong conductor with magnetic correlation. Drill target on line 0+00	Weak conductor not traceable with VEM. No further work at this time.

TABULATION OF CONDUCTORS

Job Pezamerica

Conductor Designation		3190A	3190G	3200A-3210A
Airborne Anomaly Character	Max. mho value	7	1	1
	No. of lines/length	1/600 ft	1/600 ft	2/1500 ft
	Depth estimated	115 ft	0	15 to 135 ft
	Width estimated	Thin	Thin	Thin
	Dip estimated	West		
	Mag. response (gammas)	10g	Nil	Nil
O - Open X - Staked by others P - PEZAMERICA claims		P	P	P
FOR GROUND	V.L.F. reconnaissance			
	V.E.M. reconnaissance			
	V.E.M. detail			
	Horizontal Shootback E.M.		x	
	MaxMin II/III			
	P.E.M.			
	Other geophysical surveys			
	Magnetometer survey		x	
	Local geology mapped (checked)		x	
	Conductor axis prospected			
	Conductor axis trenched			
	Conductor axis drilled			
	No. of geochem soil samples			
	No. of rock samples analysed			
	No of basal till samples			
Previous Activity				
RESULTS OF GROUND	Anomaly located: (?)		Y?	
	Strike and dip of anomaly		1 line only; east	
	Anomaly length		Open south	
	Anomaly width		Thin	
	Conductivity thickness (mhos)			
	Parallel anomalies: (?)		N	
	Magnetic amplitude (gammas)		Background	
	Estimated depth to source			
	Depth to bedrock			
	Geological Description	Shell - Amphibolite	Amphibolite.	Shell - Amphibolite
	Geochemical Analysis R=Rock S=Soil (max. ppm) B.T.=Basal till (max.ppm)			
COMMENTS	Composition			
	True width			
	Rock Assays Spct=spectrographic A-normal assays AA=atomic absorption (max. ppm)			
Conclusion or Recommendation		Moderate anomaly to be followed up in winter, 1984.	Weak conductor not recognized in field Extend surveys south.	Weak anomaly to be followed up in winter, 1984.

TABULATION OF CONDUCTORS Job Pezamerica

Conductor Designation		3240XD	3250A-3260A	3291A-3300XD
Airborne Anomaly Character	Max. mho value		2	61
	No. of lines/length	1/600 ft	2/1200 ft	2/1500 ft
	Depth estimated		80 to 115 ft	1000 ft
	Width estimated	Thin	Thin	Thin
	Dip estimated			East
	Mag. response (gammas)	Nil	Nil	0 to 30g
O - Open X - Staked by others P - PEZAMERICA claims		P	P	P
FOOTWALL GROUP	V.L.F. reconnaissance			
	V.E.M. reconnaissance			
	V.E.M. detail			x
	Horizontal Shootback E.M.			x
	MaxMin II/III			
	P.E.M.			
	Other geophysical surveys			
	Magnetometer survey			x
	Local geology mapped (checked)			x
	Conductor axis prospected			
	Conductor axis trenched			
	Conductor axis drilled			
	No. of geochem soil samples			18
	No. of rock samples analysed			
	No of basal till samples			
Previous Activity				
RESULTS	Anomaly located: (?)			Y
	Strike and dip of anomaly			140°; east
	Anomaly length			400 ft
	Anomaly width			Thin
	Conductivity thickness (mhos)			
	Parallel anomalies: (?)			N
	Magnetic amplitude (gammas)			Background
	Estimated depth to source			
	Depth to bedrock			
FOOTWALL GROUP	Geological Description	OGS - Metasediments	Shell- Amphibolite.	Amphibolite and minor rhyolite flows.
	Geochemical Analysis R=Rock S=Soil (max. ppm) B.T.=Basal till (max.ppm)			S-From <2 to 7ppb Au. (2 samples >2ppb).
COMMENTS	Composition			
	True width			
	Rock Assays Spct=spectrographic A-normal assays AA=atomic absorption (max. ppm)			
Conclusion or Recommendation		Partially water covered. Survey in winter of 1984.	Weak anomaly to be followed up in winter, 1984.	Possibly only located 3300A. Check location and continue VEM north in winter, 1934.

TABULATION OF CONDUCTORS Job Pezamerica

Conductor Designation		3350B-3360B	3350XB	3390A
Airborne Anomaly Character	Max. mho value	33		27
	No. of lines/length	2/1500 ft	1/600 ft	1/600 ft
	Depth estimated	50 to 145 ft		85 ft
	Width estimated	Thin		Thin
	Dip estimated	East		East
	Mag. response (gammas)	Nil	Nil	Nil
O - Open X - Staked by others P - PEZAMERICA claims		P	P	P
FOOTWALL GROUP	V.L.F. reconnaissance			
	V.E.M. reconnaissance			
	V.E.M. detail	x		x
	Horizontal Shootback E.M.	x	x	x
	MaxMin II/III			
	P.E.M.			
	Other geophysical surveys			
	Magnetometer survey	x		x
	Local geology mapped (checked)	x	x	x
	Conductor axis prospected			
	Conductor axis trenched			
	Conductor axis drilled			
	No. of geochem soil samples	18		27
	No. of rock samples analysed			
	No of basal till samples			
Previous Activity				
RESULTS FOOTWALL GROUP	Anomaly located: (?)	Y	Y	Y
	Strike and dip of anomaly	135°; west	150°; east	1 line, vertical
	Anomaly length	800ft	1 line only	<400 ft
	Anomaly width	Thin	Thin	Thin
	Conductivity thickness (mhos)			
	Parallel anomalies: (?)	N	N	N
	Magnetic amplitude (gammas)	400g		1500g
	Estimated depth to source			
	Depth to bedrock			
	Geological Description	Metasediments.	Metasediments, trace pyrite.	Metasediments.
	Geochemical Analysis R=Rock S=Soil (max. ppm) B.T.=Basal till (max.ppm)	S-All soil samples <2ppb Au.		S-From <2 to 2ppb Au. (2 samples >2ppb).
COMMENTS	Composition			
	True width			
	Rock Assays Spct=spectrographic A-normal assays AA=atomic absorption (max. ppm)			
Conclusion or Recommendation		Moderate conductor in very erratic magnetic pattern. Drill target on line 0+00.	Located but not recognized by field crews. Trace out in winter of 1984.	Conductor located only with shootback Resurvey with PEM or MaxMin in winter 1984.

TABULATION OF CONDUCTORS

Job Pezamerica

Conductor Designation		3450C-3470C	3490B	3640XA
Airborne Anomaly Character	Max. mho value	44	1	
	No. of lines/length	3/2500 ft	1/600 ft	1/600 ft
	Depth estimated	110 to 205 ft	0	
	Width estimated	Thin	Thin	Thin
	Dip estimated			
	Mag. response (gammas)	0 to 5g	Nil	Nil
O - Open X - Staked by others P - PEZAMERICA claims		P	P	P
FOOTWALL GROUP	V.L.F. reconnaissance			
	V.E.M. reconnaissance			
	V.E.M. detail	x		
	Horizontal Shootback E.M.	x		x
	MaxMin II/III			
	P.E.M.			
	Other geophysical surveys			
	Magnetometer survey	x		x
	Local geology mapped (checked)	x		x
	Conductor axis prospected			
	Conductor axis trenched			
	Conductor axis drilled			
	No. of geochem soil samples	31		
	No. of rock samples analysed			
	No of basal till samples			
Previous Activity				
RESULTS	Anomaly located: (?)	Y		N
	Strike and dip of anomaly	150°; east		
	Anomaly length	1200 ft		
	Anomaly width	Thin		
	Conductivity thickness (mhos)			
	Parallel anomalies: (?)	No		
	Magnetic amplitude (gammas)	Background		
	Estimated depth to source			
	Depth to bedrock			
FOOTWALL GROUP	Geological Description	Shell-Metasediments	OGS - Amphibolite.	OGS - Amphibolite.
FOOTWALL GROUND	Geochemical Analysis R=Rock S=Soil (max. ppm) B.T.=Basal till (max.ppm)	S-From 10 to 430ppb Au on grid (5 samples).		
COMMENTS	Composition			
	True width			
	Rock Assays Spct=spectrographic A-normal assays AA=atomic absorption (max. ppm)			
Conclusion or Recommendation		Good conductor with extremely high Au in soil values in close proximity. Drill target on line 0+00.	Weak anomaly to be followed up in winter, 1984.	Very weak DIGHEM conductor not located. No further work.

TABULATION OF CONDUCTORS Job Pezamerica

Conductor Designation		3640XB		
Airborne Anomaly Character	Max. mho value			
	No. of lines/length	1/600 ft		
	Depth estimated			
	Width estimated	Thin		
	Dip estimated			
	Mag. response (gammas)	Nil		
O - Open X - Staked by others P - PEZAMERICA claims		P		
FOOTWALL GROUP	V.L.F. reconnaissance			
	V.E.M. reconnaissance			
	V.E.M. detail			
	Horizontal Shootback E.M.	x		
	MaxMin II/III			
	P.E.M.			
	Other geophysical surveys			
	Magnetometer survey	x		
	Local geology mapped (checked)	x		
	Conductor axis prospected			
	Conductor axis trenched			
	Conductor axis drilled			
	No. of geochem soil samples			
	No. of rock samples analysed			
	No of basal till samples			
Previous Activity				
RESULTS FOOTWALL GROUP	Anomaly located: (?)	N		
	Strike and dip of anomaly			
	Anomaly length			
	Anomaly width			
	Conductivity thickness (mhos)			
	Parallel anomalies: (?)			
	Magnetic amplitude (gammas)			
	Estimated depth to source			
	Depth to bedrock			
	Geological description	OGS - Amphibolite.		
	Geochemical Analysis R=Rock S=Soil (max. ppm) B.T.=Basal till (max.ppm)			
COMMENTS	Composition			
	True width			
	Rock Assays Spct=spectrographic A-normal assays AA=atomic absorption (max. ppm)			
Conclusion or Recommendation		Very weak DIGHEM conductor. No further work.		

OM83-7-C-211

900

THIS SUBMITTAL CONSISTED OF VARIOUS REPORTS, SOME OF WHICH HAVE BEEN CULLED FROM THIS FILE. THE CULLED MATERIAL HAD BEEN PREVIOUSLY SUBMITTED UNDER THE FOLLOWING RECORD SERIES (THE DOCUMENTS CAN BE VIEWED IN THESE SERIES):

THE FOLLOWING MAGNETIC AND ELECTROMAGNETIC ANOMALY SKETCH MAPS HAVE BEEN REMOVED

① Anomaly 1330 xB - 1350 D, Gourley Tp. ⇒ Toronto File # 2.7457, Mining Recorder Report of Work # 430-84

② Anomaly 1320 xA, Gourley + Bayfield Tps. ⇒ Toronto File # 2.7455, Report of Work # 428-84

③ Anom. 1210 D, Bayfield Tp. ⇒ Toronto Fik # 2.7458, Report of Work # 429-84

④ Anom. 1190 E, Bayfield Tp. ⇒ Toronto File # 2.7459, Report of Work # 426-84

⑤ Anom. 1110 xA', Bayfield Tp. ⇒ Toronto File # 2.7460, Report of Work # 427-84

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OM 83-7-C-211

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(6) Anom 2270A - 2280B, Hambleton Tp. ⇒ Toronto File: HAMBLETON-0014-A1 (2.7445)

(7) Anom. 2280J - 2290G, Hambleton Tp. ⇒ Toronto File: HAMBLETON-0014-C1 (2.7448)

(8) Anom 3090D, Hambleton Tp. ⇒ File: HAMBLETON-0015-A1 (2.7449)

(9) Anom. 1650E - 2090B, 2070B, Hambleton Tp. ⇒ File: HAMBLETON-0016-A1 (2.7467)

(10) Anom. 2220B - 2250A, Hambleton Tp. ⇒ HAMBLETON-0017-A1 (2.7469)

(11) Anom 1670F - 2110E, Hambleton Tp. ⇒ HAMBLETON-0017-C1 (2.7456)

(12) Anom 2270xD - 3050D, Hambleton Tp. ⇒ HAMBLETON-0018-A1 (2.7470)

(13) Anom 2130E, Hambleton Tp. ⇒ HAMBLETON-0018-C1 (2.7472)

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(14) Anom 3390A, Odlum Tp ⇒ ODLUM-0011-A1 (2.7447)

(15) Anom. 3180xD, Odlum Tp. ⇒ ODLUM-0011-C1 (2.7450)

(16) Anom. 3350B-3360B + 3350xB, ⇒ ODLUM-0013-A1 (2.7463)
Odlum Tp.

(17) Anom. 3190G, Odlum Tp. ⇒ ODLUM-0013-C1 (2.7452)

(18) Anom. 3291A-3300xD ⇒ ODLUM-0015-A1 (2.7462)

(19) Anom. 3450C-3470C, Tedder Tp. ⇒ TEDDER-0010-D1 (2.7471)

(20) Anom. 3640xA/3640xB, ⇒ COOPER-0010-A1 (2.7465)
Cooper Tp.

Feb/86

FOR ADDITIONAL

INFORMATION

SEE MAPS:

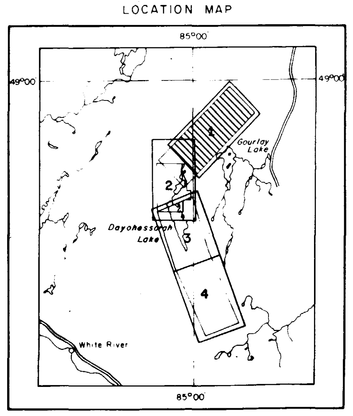
HAMBLETON-0020 #1-8

MATTHEWS
HAMBLETON
TWP.
TWP.

BAYFIELD
GOURLEY
TWP.
TWP.

A

LOCATION MAP



Scale 1 500,000

DAYOHESSARAH LAKE AREA, ONTARIO

GEOLOGY and GEOCHEMISTRY

FOR

PEZAMERICA RESOURCES CORP.

OM83-211

SCALE 1 15,000

3/4 1/2 0 1/2 1 1 1/2 Kilometres

1/4 0 1/4 1/2 3/4 Miles

SHEET 1

HAMBLETON-0020, #1

GEOLOGICAL LEGEND

- DIABASE
- DYKES AND SILLS
  - 8a - felsic
  - 8b - mafic
  - 8c - pegmatite
  - 8d - intermediate (diorite)
  - 8e - quartz feldspar porphyry
- FELSIC - INTERMEDIATE INTRUSIVES
  - 7a - granite
  - 7b - granodiorite
  - 7c - diorite
- 6 MAFIC - ULTRAMAFIC INTRUSIVES
  - 6a - gabbro
  - 6b - ultramafic
- GRANITE GNEISS
- METASEDIMENTS
  - 4a - sandstone; arkose; subarkose; quartzite
  - 4b - greywacke, quartz-biotite-muscovite schist
  - 4c - conglomerate
- FELSIC METAVOLCANICS
  - 3a - rhyolite tuff
  - 3b - rhyolite flow
- 2 INTERMEDIATE - FELSIC METAVOLCANICS
  - 2a - tuff
- MAFIC - INTERMEDIATE METAVOLCANICS
  - 1a - amphibolite
  - 1b - amphibolite (feldspar) schist include tuffaceous unit
  - 1c - knotted amphibolite schist
  - 1d - hornblende-chlorite-biotite schist
  - 1e - mafic volcanic flows, minor gneiss
  - 1f - intermediate-mafic gneiss, amphibolite gneiss (agglomerate)
  - 1g - coarse grained flows

B 300(N) S — Line of geochemical survey (See Report - page 3)
N - Homa

DATE:	N.T.S.:	DRAWN BY:	JOB NO:	DWG NO:
SEPT 1983	42 C	C. J. A	1413	5638

42C15NW5813 HAMBLETON5608 HAMBLETON

200

HAMBLETON - 0020, #2

DAYOHESSARAH LAKE AREA, ONTARIO

GEOLOGY and GEOCHEMISTRY

FOR

PEZAMERICA RESOURCES CORP.

SCALE 1 : 15,000

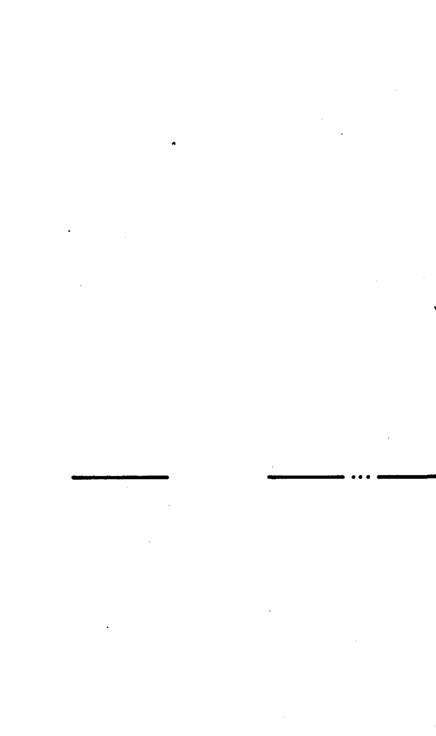
3/4 1/2 0 1/2 1 1 1/2 Kilometres

1/4 0 1/4 1/2 3/4 Miles

OM83-211

SHEET 2

LOCATION MAP



Scale 1 : 500,000

HAMBLETON TWP.

ODLUM TWP.

B

C

D

E

F

G

H

J

GEOLOGICAL LEGEND

- DIABASE
- DYKES AND SILLS
  - 8a - felsic
  - 8b - mafic
  - 8c - pegmatite
  - 8d - intermediate (diorite)
  - 8e - quartz feldspar porphyry
- FELSIC - INTERMEDIATE INTRUSIVES
  - 7a - granite
  - 7b - granodiorite
  - 7c - diorite
- 6 MAFIC - ULTRAMAFIC INTRUSIVES
  - 6a - gabbro
  - 6b - ultramafic
- GRANITE GNEISS
- METASEDIMENTS
  - 4a - sandstone; arkose; subarkose; quartzite
  - 4b - greywacke, quartz-biotite-muscovite schist
  - 4c - conglomerate
- 3 FELSIC METAVOLCANICS
  - 3a - rhyolite tuff
  - 3b - rhyolite flow
- 2 INTERMEDIATE - FELSIC METAVOLCANICS
  - 2a - tuff
- MAFIC - INTERMEDIATE METAVOLCANICS
  - 1a - amphibolite
  - 1b - amphibolite (feldspar) gneiss include tuffs
  - 1c - knotted staurolite schist
  - 1d - hornblende-chlorite-biotite schist
  - 1e - mafic volcanic flows, tuff, agglomerate
  - 1f - intermediate-mafic gneiss, amphibolite, tuff (agglomerate)
  - 1g - coarse grained flows

8 30(H) 5 — Line of geochemical survey (See Report - page 3)
H - Humus

DATE: SEPT 1983	N.T.S.: 42 C	DRAWN BY: C.J.A	JOB NO: 1413	DWG. NO.: 5639

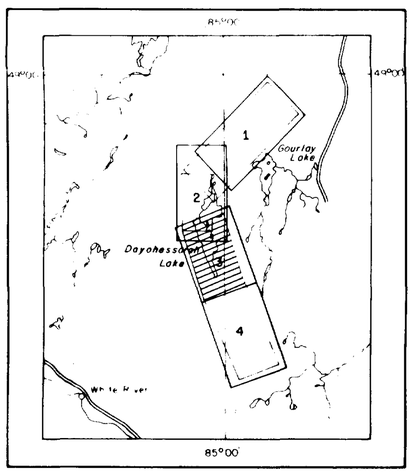
HAMBLETON-0020, #2

GOURLAY TWP.
STRICKLAND TWP.

ODLUM TWP.
TEDDER TWP.

K

LOCATION MAP



Scale 1 500,000

DAYOHESSARAH LAKE AREA, ONTARIO

GEOLOGY and GEOCHEMISTRY

FOR

PEZAMERICA RESOURCES CORP.

ON 83-211

HAMBLETON-0020
#3

SCALE 1:15,000

3/4 1/2 0 1 2 kilometres

1/4 0 1 4 miles

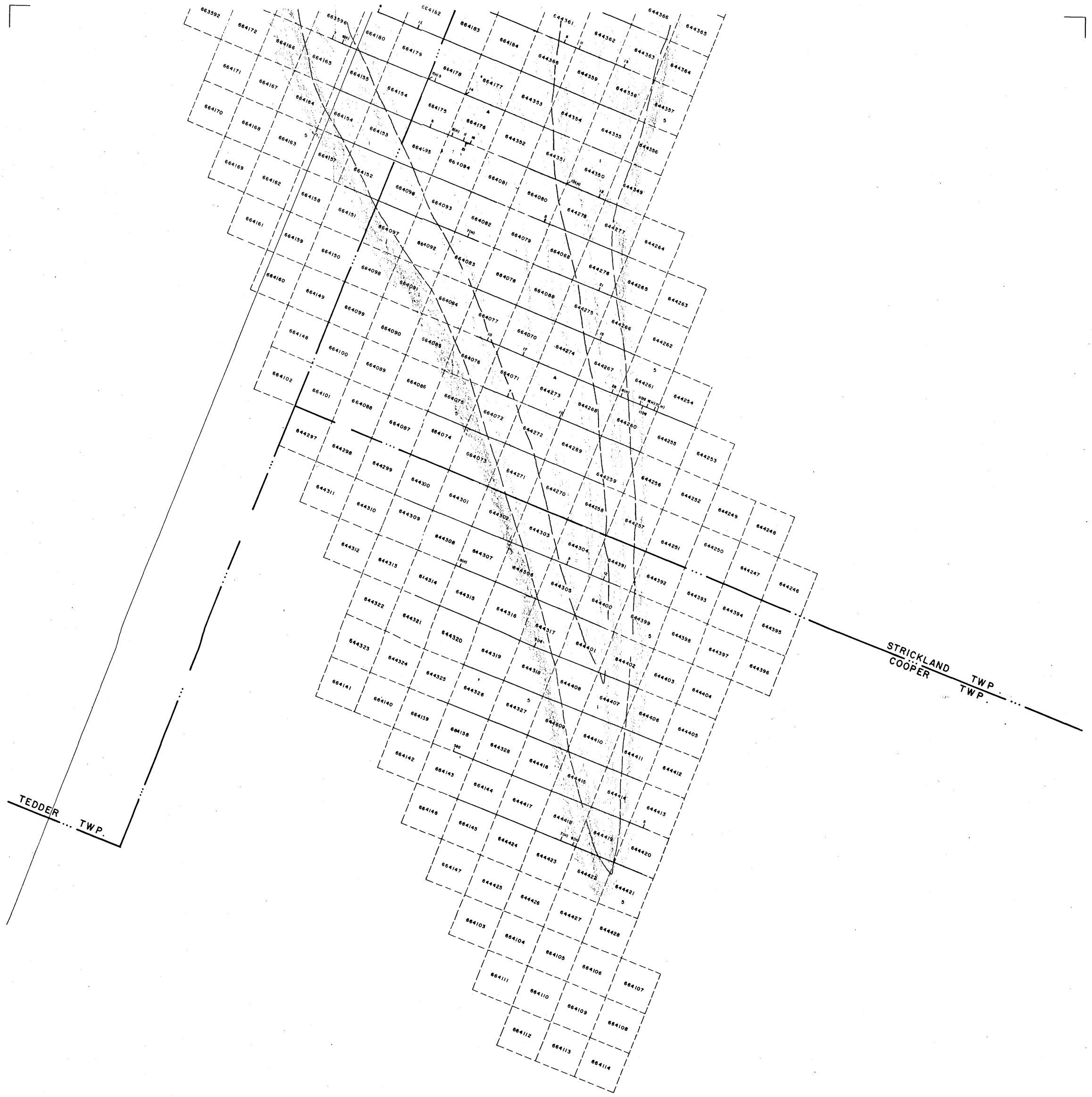
SHEET 3

GEOLOGICAL LEGEND

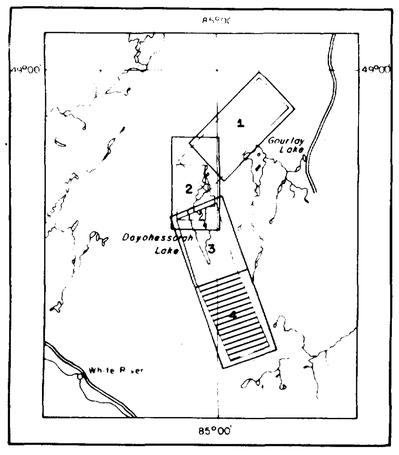
- DIABASE
- DYKES AND SILLS
  - 8a - felsic
  - 8b - mafic
  - 8c - pegmatite
  - 8d - intermediate (diorite)
  - 8e - quartz feldspar porphyry
- 7 FELSIC - INTERMEDIATE INTRUSIVES
  - 7a - granite
  - 7b - granodiorite
  - 7c - diorite
- 6 MAFIC - ULTRAMAFIC INTRUSIVES
  - 6a - gabbro
  - 6b - ultramafic
- GRANITE GNEISS
- 4 METASEDIMENTS
  - 4a - sandstone; arkose; subarkose; quartzite
  - 4b - greywacke, quartz-biotite-muscovite schist
  - 4c - conglomerate
- 3 FELSIC METAVOLCANICS
  - 3a - rhyolite tuff
  - 3b - rhyolite flow
- 2 INTERMEDIATE - FELSIC METAVOLCANICS
  - 2a - tuff
- MAFIC - INTERMEDIATE METAVOLCANICS
  - 1a - amphibolite
  - 1b - amphibolite (feldspar) schist include tuffaceous ...
  - 1c - knotted amphibolite schist
  - 1d - hornblende-chlorite-biotite schist
  - 1e - mafic volcanic flows, minor gneiss
  - 1f - intermediate-mafic gneiss, amphibolite gneiss (agglomerate)
  - 1g - coarse grained flows

8 30(H) 5 — Line of geochemical survey (See Report - page 3)
H - Humus

DATE:	N.T.S.:	DRAWN BY:	JOB NO:	DWG. NO.:
SEPT 1983	42 C	C.J.A	1413	5640



LOCATION MAP



Scale 1 : 500,000

DAYOHESSARAH LAKE AREA, ONTARIO

GEOLOGY and GEOCHEMISTRY

FOR

PEZAMERICA RESOURCES CORP.

SCALE 1 : 15,000

3/4 1/2 0 1/2 1 1½ Kilometres

1/4 0 1/4 1/2 3/4 Miles

OM 83-211

SHEET 4

HAMBLETON-0020
#4

GEOLOGICAL LEGEND

- DIABASE
- DYKES AND SILLS
  - 8a - felsic
  - 8b - mafic
  - 8c - pegmatite
  - 8d - intermediate (diorite)
  - 8e - quartz feldspar porphyry
- FELSIC - INTERMEDIATE INTRUSIVES
  - 7a - granite
  - 7b - granodiorite
  - 7c - diorite
- 6 MAFIC - ULTRAMAFIC INTRUSIVES
  - 6a - gabbro
  - 6b - ultramafic
- GRANITE GNEISS
- METASEDIMENTS
  - 4a - sandstone; arkose; subarkose; quartzite
  - 4b - greywacke, quartz-biotite-muscovite schist
  - 4c - conglomerate
- 3 FELSIC METAVOLCANICS
  - 3a - rhyolite tuff
  - 3b - rhyolite flow
- 2 INTERMEDIATE - FELSIC METAVOLCANICS
  - 2a - tuff
- MAFIC - INTERMEDIATE METAVOLCANICS
  - 1a - amphibolite
  - 1b - amphibolite (feldspar) schist include tuffaceous unit
  - 1c - knotted amphibolite schist
  - 1d - hornblende-chlorite-biotite schist
  - 1e - mafic volcanic flows, minor gneiss
  - 1f - intermediate-mafic gneiss, amphibolite gneiss (agglomerate)
  - 1g - coarse grained flows

8 30(H) 5 — Line of geochemical survey (See Report - page 3)
H- Humus

DATE:	N.T.S.:	DRAWN BY:	JOB NO:	DWG. NO:
SEPT 1983	42 C	C.J.A	1413	5641

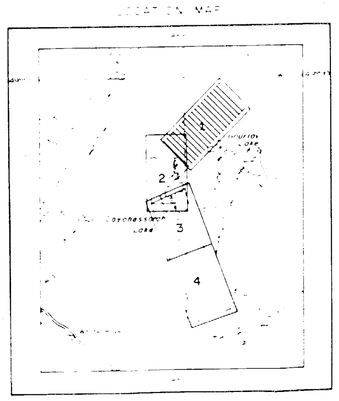
DIGHEM^{III} SURVEY

DAYOHESSARAH LAKE AREA, ONTARIO

COMPILATION

FOR

PEZAMERICA RESOURCES CORP.



Flight Line

Fiducial 2120 (Not recovered from film)

Fiducial 2118 (Recovered from film)

Fiducial 2110 (Not recovered from film)

Fiducial 2104 (Recovered)

301 Line Number and Flight Direction

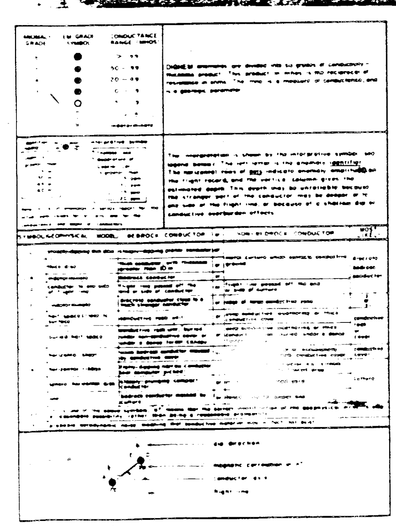
SCALE 1:50,000

1/4 1/2 1 1 1/2 2 Miles

1/4 1/4 1/2 1/4 Miles

SHEET 1

OM 83-211



DATE	N.T.S.	DRAWN BY:	JOB NO:	DWG. NO:
Oct. 1983	42 C	C. J. A.	1413	5642

BLETON-0020, #5

240

DIGHEM^{III} SURVEY

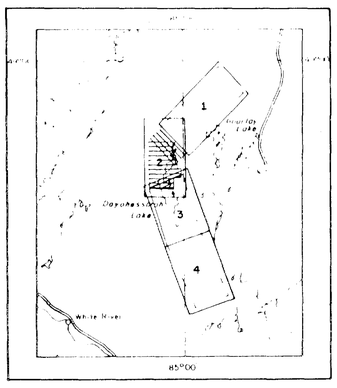
DAYOHESSARAH LAKE AREA, ONTARIO

COMPILATION

FOR

PEZAMERICA RESOURCES CORP.

LOCATION MAP



Scale 1 500,000

SCALE 1:15,000

0 1/2 1 Miles

Flight Line

- Fiducial 2120 (Not recovered from film)
- 2114 Fiducial 2118 (Recovered from film)
- Fiducial 2110 (Not recovered from film)
- 2104 Fiducial 2104 (Recovered from film)
- 301 Line number and Flight direction

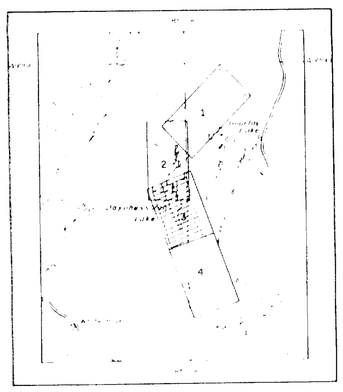
OM83-211

SHEET 2

DATE: Oct. 1983	N.T.S.: 42 C	DRAWN BY: C.J.A	JOB NO: 1413	DWG. NO: 5643

250

LOCATION MAP



DIGHEM^{III} SURVEY

DAYOHESSARAH LAKE AREA, ONTARIO

COMPILATION

FOR

PEZAMERICA RESOURCES CORP.

OM83-211

Flight Line

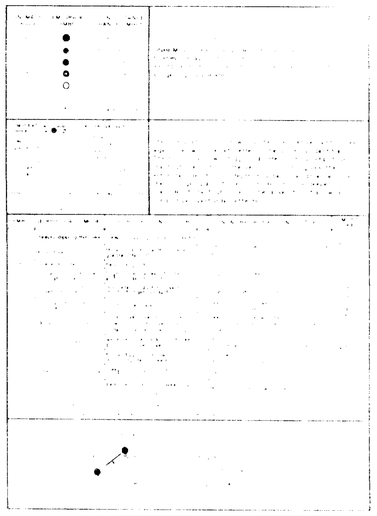
Fiducial 2120 (Not recovered from film)

Fiducial 2118 (Recovered from film)

Fiducial 2110 (Not recovered from film)

Fiducial 2104 (Recovered from film)

301 — Line number and Flight direction



SCALE 1:15,000

DATE	NTS	DRAWN BY	JOB NO.	DWG NO.
Oct. 1983	42 C	C J A	1413	5644

TEDDER TWP

STRICKLAND-COOPER TWP.

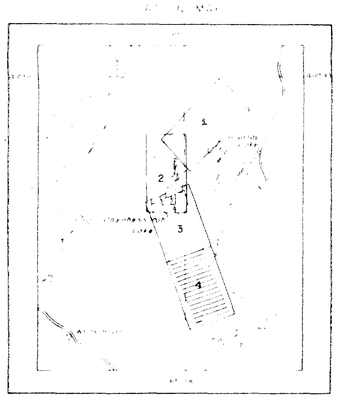
DIGHEM[III] SURVEY

DAYOHESSARAH LAKE AREA, ONTARIO

COMPILATION

FOR

PEZAMERICA RESOURCES CORP.

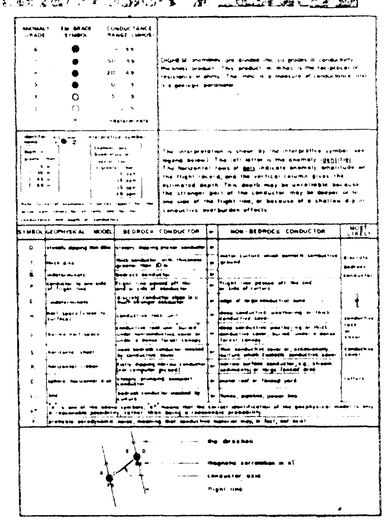


Scale: 1 Sq. Cm. = [illegible]

REGISTERED PROFESSIONAL ENGINEER
B.E. ERASER
PROVINCE OF ONTARIO

Flight Line

- Fiducial 2120 (Not recovered from film)
- 208 — Fiducial 2118 (Recovered from film)
- Fiducial 2110 (Not recovered from film)
- 204 — Fiducial 2104 (Recovered from film)
- 30 — Line number and Flight direction



OM83-211

DATE	N.T.S.	DRAWN BY	JOB NO.	DWG NO.
Oct. 1983	42 C	C.J.A.	1413	5645