GEOLOGICAL REPORT

ON THE

FAULT LAKE PROPERTY — DETOUR LAKE AREA

PORCUPINE MINING DIVISION — ONTARIO

f o r

Global Energy Corporation

Connaught, Ontario, Canada
October, 1982

D.T. Hillier, B.Sc. (U.B.C.)

TABLE OF CONTENTS

SUMMARY:

During July and August, 1982, a geological survey was performed on nineteen (19) claims in the northern part of the Detour Lake Area, District of Cochrane, Ontario. Ground geophysical surveys have also been carried out with the results still pending. It is recommended that targets produced from the geophysical surveys be examined more closely.

INTRODUCTION:

A detailed geological survey was carried out on a group of nineteen (19) claims in the Detour Lake Area during July and August, 1982. The claim numbers are P-553684, P-555176 to P-555190 inclusive, P-553691, P-553692, P-553671 and are recorded in the name of Ingamar Explorations Limited.

These claims are located approximately six (6) kilometers west of the Amoco-Campbell Red Lake - Dome gold deposit.

Detail ground geophysical surveys consisting of Apex Max-Min II horizontal loop and induced polarization were carried out during September, 1982.

LOCATION:

The claim group is located at 50° 01'N latitude and 79° 48'W longitude, or approximately 140 kilometers northeast of Cochrane, within 18 kilometers of the Quebec -

Figure 1 Location Map

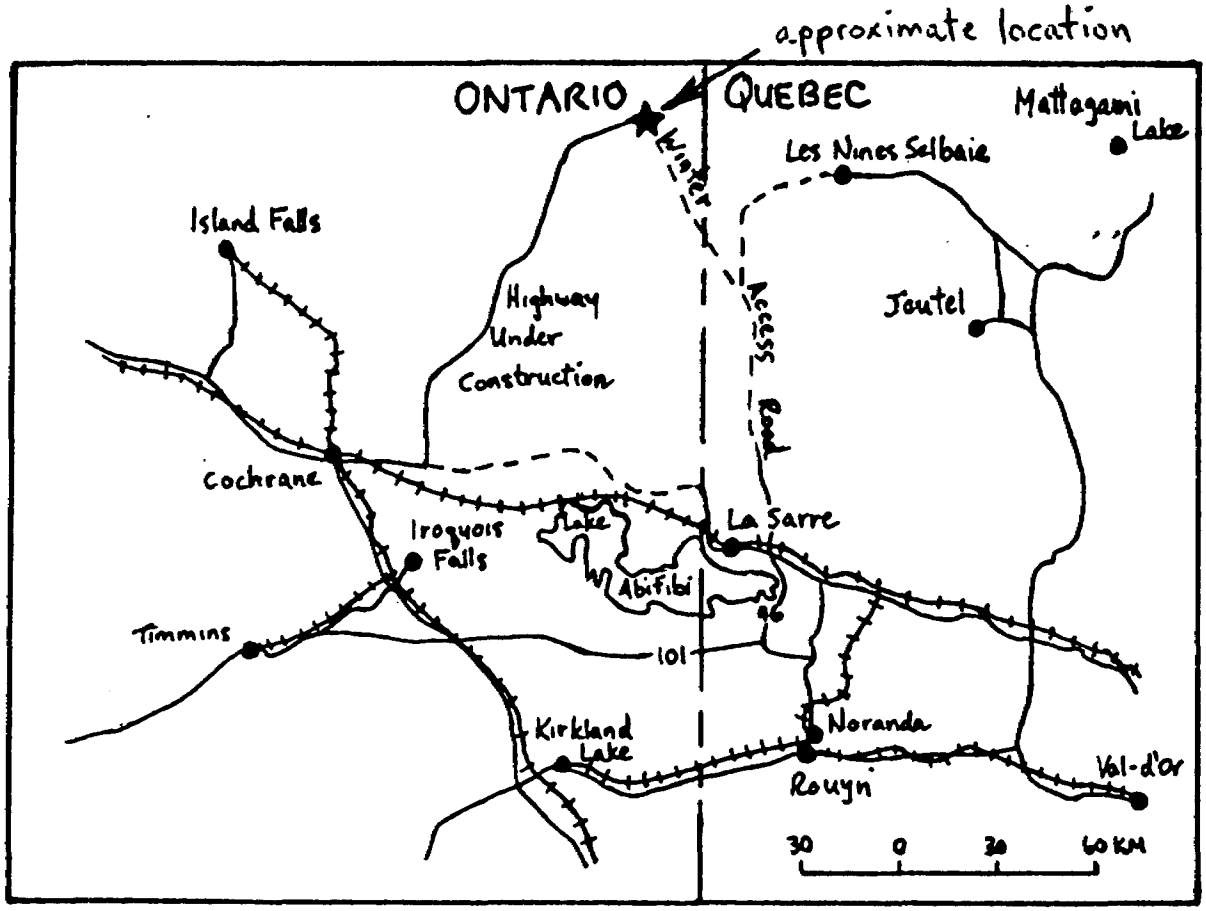
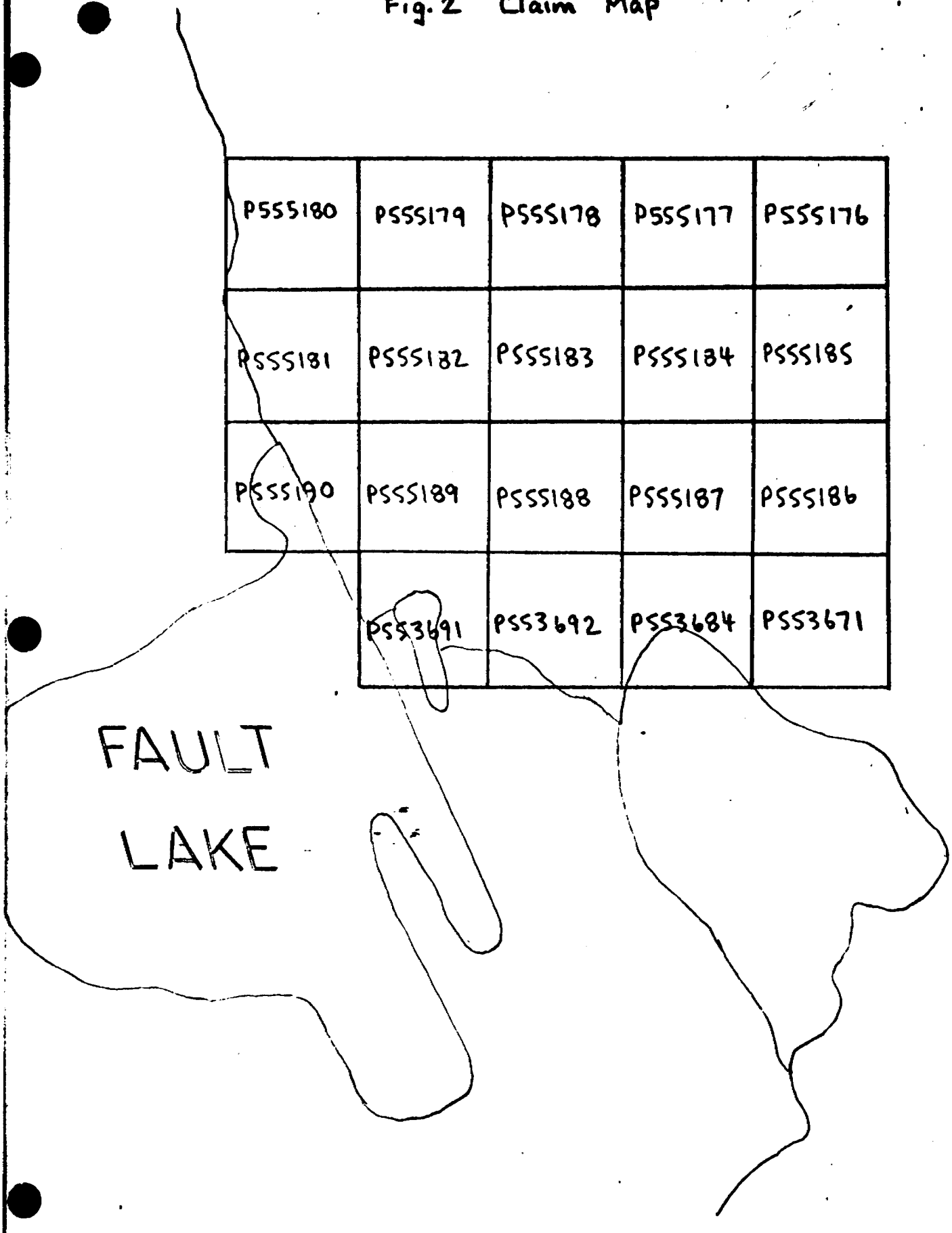


Fig. 2 Claim Map



Ontario boundary. La Sarre is located 130 kilometers to the south-south-east. The property is accessible in the winter by means of a winter access road from La Sarre. The property will also be accessible from Cochrane during both the summer and winter when the highway that is presently under construction is completed. At the present time access to the property is by float plane landing on Fault Lake on the west side of the property.

TOPOGRAPHY & VEGETATION:

The topography of the claim group is generally low lying ground with occasional small hills where rock outcrops. Most of the north half of the property is flat lying muskeg swamp with scattered small spruce trees and occasional grassy, floating bogs. The southern half and the northern-most part of the property is covered with 2" - 6" diameter spruce trees with occasional patches of muskeg.

Fault Lake is located on the west side of the property and is joined by a five (5) meter wide creek to another lake in the middle of the property on the southern boundary.

PREVIOUS WORK:

Mineral exploration in the general Detour Lake-Sunday Lake region was minimal prior to 1974. In October, 1974, Amoco Petroleum Company Limited discovered a gold ore deposit situated approximately six (6) kilometers east of the property which is the subject of this report.

By 1976, the main Amoco deposit had been outlined by drilling and was reported to contain a minimum of ten million tons averaging 0.20 oz gold per ton. In August 1979, Dome Mines and Campbell Red Lake Mines jointly announced that they would finance 50 percent of the development costs of the Amoco deposit and would operate the resultant mine. By 1981 the tonnage of the deposit had increased to 28 million tons averaging .125 oz per ton.

In 1976 the subject property was part of an 80 - claim group held by Noranda Mines Ltd. Noranda Mines Ltd. carried out magnetometer and dual-frequency vertical loop electromagnetic surveys and located two conductive zones on the ground. No further assessment work was filed.

On April 9, 1980 the nineteen (19) claims which are the subject of this report were staked by Adrien Beaudoin and on June 11, 1980 all interest in the claims was transferred to Ingamar Explorations Limited, Cedar Hill, Connaught, Ontario. The above mentioned claims are being held in trust for Global Energy Corp. of Vancouver, B.C.

SURVEY METHOD:

The survey was conducted by D. Hillier during July and August, 1982. Rock outcrops were tied into a grid system by walking along the lines which were cut at 400' intervals (base line azimuth 120°). Where rock outcrop was found between the lines the outcrop was followed and mapped. Most of the outcrop was slightly covered with 1" - 6" of moss and this was cleared off before the mapping was done. Major topographic features

and claim posts were tied into the grid system as accurately as possible.

REGIONAL GEOLOGY:

The sequence of rocks in the Detour Lake Area consists of Pre-Cambrian mafic to felsic metavolcanics and metasediments of the Abitibi Greenstone Belt. The metavolcanics and metasediments of this area were later intruded by both felsic and mafic plutons and dykes.

The mafic metavolcanics are fine grained and have well preserved primary structures. The main lithologic types are as follows; flows, tuffs, pillow flows with autoclastic breccia, lapilli-breccia to pyroclastic breccia and porphyritic flows.

The felsic to intermediate units are not exposed in outcrop and have been delineated using diamond drill hole logs and ODM-GSC aeromagnetic maps. Chemically all the felsic to intermediate metavolcanics are calc-alkaline rhyolites and dacites with minor tholeiitic dacite.

The clastic metasediments are found stratigraphically above and below the metavolcanics. Diamond drill hole logs also show that they are interbedded with metavolcanics.

The metamorphosed mafic and ultramafic intrusive rocks consist of gabbro, porphyritic gabbro and amphibolite. These occur as feeder dykes and sills. The ultramafic intrusive rocks are not exposed on the surface.

The felsic to intermediate intrusive rocks are mainly quartz monzonites that are occasionally pegmatitic.

The metavolcanic-metasedimentary rocks of the northern supracrustal belt in the Detour Lake Area lie at or within the nose of a fold structure which extends west from the main body of the Abitibi volcanic belt in Quebec. The northern supracrustal belt is isoclinally folded into an anticline and a series of antiforms and synforms. The emplacement of the Detour Lake diorite warped the fold axes and induced minor folding in the metavolcanics surrounding the body. The anticline found north of Detour and Lower Detour Lakes plunges gently to the northwest at about 45 degrees. The location of the axis of the anticline is delineated by lithologic changes found in diamond drill logs and opposing pillow tops found on the north and south limbs.

Major faults have not been proposed for the map area because the amount of outcrop is insufficient and the overburden too deep for such interpretation.

Foliation in the Detour Lake Area tends to parallel bedding and is defined by the planar orientation of platy and acicular minerals such as biotite, chlorite, muscovite and amphibole and by flattening of clasts and pillows.

The rocks in the Detour Lake Area have undergone regional and contact metamorphism, ranging from upper greeschist to almandine amphibolite facies. (see Reference #1)

TABLE 1 - TABLE OF FORMATIONS FOR THE BURNTBUSH-DETOUR LAKES AREA

PHANEROZOIC

CENOZOIC

QUATERNARY

RECENT

Swamp, stream and lacustrine deposits

PLEISTOCENE

Till, clay, sand, and gravel deposits

Unconformity

PRECAMBRIAN

LATE PRECAMBRIAN (PROTEROZOIC)

Mafic Intrusive Rocks

Quartz Diabase

Intrusive Contact

EARLY PRECAMBRIAN (ARCHEAN)

Mafic to Intermediate Intrusive Rocks

Diorite

Felsic to Intermediate Intrusive Rocks

Quartz monzonite, granodiorite, granite, quartz diorite, feldspar porphyry, quartz-feldspar porphry, gneiss, pegmatite, felsite, trondjemite

Intrusive Contact

Metamorphosed Mafic and Ultramafic Intrusive Rocks

Gabbro, amphibolite, porphyritic gabbro, ultramafic rocks (not exposed)

Intrusive Contact

Metasediments

Chemical Metasediments

Ironstone, chert

Clastic Metasediments

Wacke, arenite, arkose, calc-silicate rocks, grit, fine-grained to very fine grained graphitic metasediments and tuffs, schist

TABLE 1 cont'd

METAVOLCANICS

Felsic to Intermediate Metavolcanics

Flow, tuff, lapilli-tuff, pyroclastic breccia, tuff-breccia, porphyryitic flows.

Mafic to Intermediate Metavolcanics

Flow, tuff, lapilli-breccia-pyroclastic breccia, amphibolite, pillowed and porphyritic flows, pillow breccia

PROPERTY GEOLOGY:

From the outcrop exposed, basic to intermediate volcanics underly most of the property. The volcanics have undergone regional and contact metamorphism ranging from greenschist facies on the eastern part of the property and amphibolite-garnet facies on the western part.

On the eastern side the volcanics have retained much of their original structure. Pillow lavas can be seen and measured. Mafic tuffs can be found interbedded with the volcanics and can be easily recognized by thin alternating light and dark layers. In places these tuffs seem to be siliceous and contain minor pyrite and pyrrhotite. On the eastern most part of the property felsic dykes occur and are up to 1 1/2' wide and 50 to 200' long. Most of the volcanics in this area are highly chloritized.

Foliation on the eastern side of the property tends to be constant, striking at approximately 100^{o} and dipping steeply to the north. Shear zones can be seen on the eastern outcrops and have the same strike as the foliation.

Small quartz veins can be found over most of the property filling fractures in the volcanics.

The grade of metamorphism increases westward reaching amphibolite-garnet facies on the western-most side. Original structures are rare due to the high grade of metamorphism. The foliation strikes at approximately 070^{o} to 080^{o} and dips steeply to the north.

Minor pyrite and pyrrhotite can be found at some outcrops with gossanous zones indicating their presence.

On the very western-most side of the property migmatite occurs. This migmatite is probably a contact migmatite with the granitic source lying somewhere further west. The migmatite is comprised of a metavolcanic host rock and a granitic component consisting of alkali feldspar and quartz. The contact of the migmatite and the metavolcanics is gradational.

CONCLUSIONS & RECOMMENDATIONS:

The property in question lies in the same volcanic belt as the Amoco-Campbell Red Lake - Dome gold mine and should therefore be prospected with a similar type of deposit in mind. With such a small percentage of outcrop on the property the best areas pinpointed from the geophysical surveys should be cleard off with a bulldozer and trenched. The rock samples from these trenches should be assayed for gold and possibly copper. If the geophysical results pinpoint a good target and the assays are encouraging, the property should go into the diamond drill stage of the exploration survey.

SCHEDULE OF CLAIMS

NAME OF STAKER	DATE AND TIME STAKED		RECORDING DATE	CLAIM NUMBER
Adrien Beaudoin	March 14/80	8:00 am	April 9/80	P-555176
" "	"	10:00 am	"	P-555177
" "	"	12:00 am	"	P-555178
" "	"	2:00 pm	"	P-555179
" "	"	4:00 pm	"	P-555180
" "	March 15/80	8:00 am	"	P-555181
" "	"	10:00 am	"	P-555182
" "	"	12:20 pm	"	P-555183
" "	"	2:25 pm	"	P-555184
" "	"	4:30 pm	"	P-555185
" "	March 16/80	8:00 am	"	P-555186
" "	"	10:15 am	"	P-555187
" "	"	12:30 pm	"	P-555188
" "	"	2:30 pm	"	P-555189
" "	"	4:30 pm	"	P-555190
" "	March 17/80	8:30 am	"	P-553691
" "	"	11:00 am	"	P-553692
" "	"	2:00 pm	"	P-553684
" "	"	4:30 pm	"	P-553671

All interest in the claims was transfered to Ingamar Explorations Ltd. on June 11, 1980.

The claims are being held in trust for Global Energy Corporation.

REFERENCES:

Reference #1. Johns G.W.
1982: Geology of the Burntbush-Detour Lakes Area, District of Cochrane, Ontario, Geol. Survey Report 199, p22-48. Accompanied by Map 2453, Scale 1:100,000 (1cm to 1 km).

C E R T I F I C A T E

I, Donald Hillier of Vancouver, British Columbia, hereby certify that:

1. I hold a Bachelor of Science Degree in Geology from the University of British Columbia, having graduated in May 1981.

2. I have practised my profession in exploration continuously since graduation.

3. I have based conclusions and recommendations contained in this report on knowledge of the area, my previous experience, and on results of field work conducted on the property during the months of July and August, 1982, which was carried out under my overall supervision.

4. I hold no interest, directly or indirectly in this property other than professional fees, nor do I expect to receive any interest in the property or in Ingamar Explorations Limited, or any of its subsidiary companies.

Connaught, Ontario, Canada

Donald Hillier, B.Sc.
Geologist

GEOPHYSICAL REPORT

on the

FAULT LAKE PROJECT DETOUR LAKE

for

GLOBAL ENERGY CORPORATION

by Rayan Exploration Ltd.
North Bay, Ontario

R.J. Meikle

September, 1982

TABLE OF CON

LIST OF MAPS

Map No.	Content
1	Horizontal Loop 1777 H7
2	Horizontal Loop 444 H7
3	I.P. Chargeability 'a' = 200'
4	Apparent Resistivity 'a' = 200'
5	I.P. Chargeability 'a' = 50'
6	Apparent Resistivity 'a' = 50'
7	Completion Map

I. INTRODUCTION

A Max-Min electromagnetic survey and an Induced Polarization survey were carried out between August 23 to September 14, 1982 by Rayan Exploration Ltd. for Global Energy Corporation, Vancouver, Canada. The work was done on a contract basis.

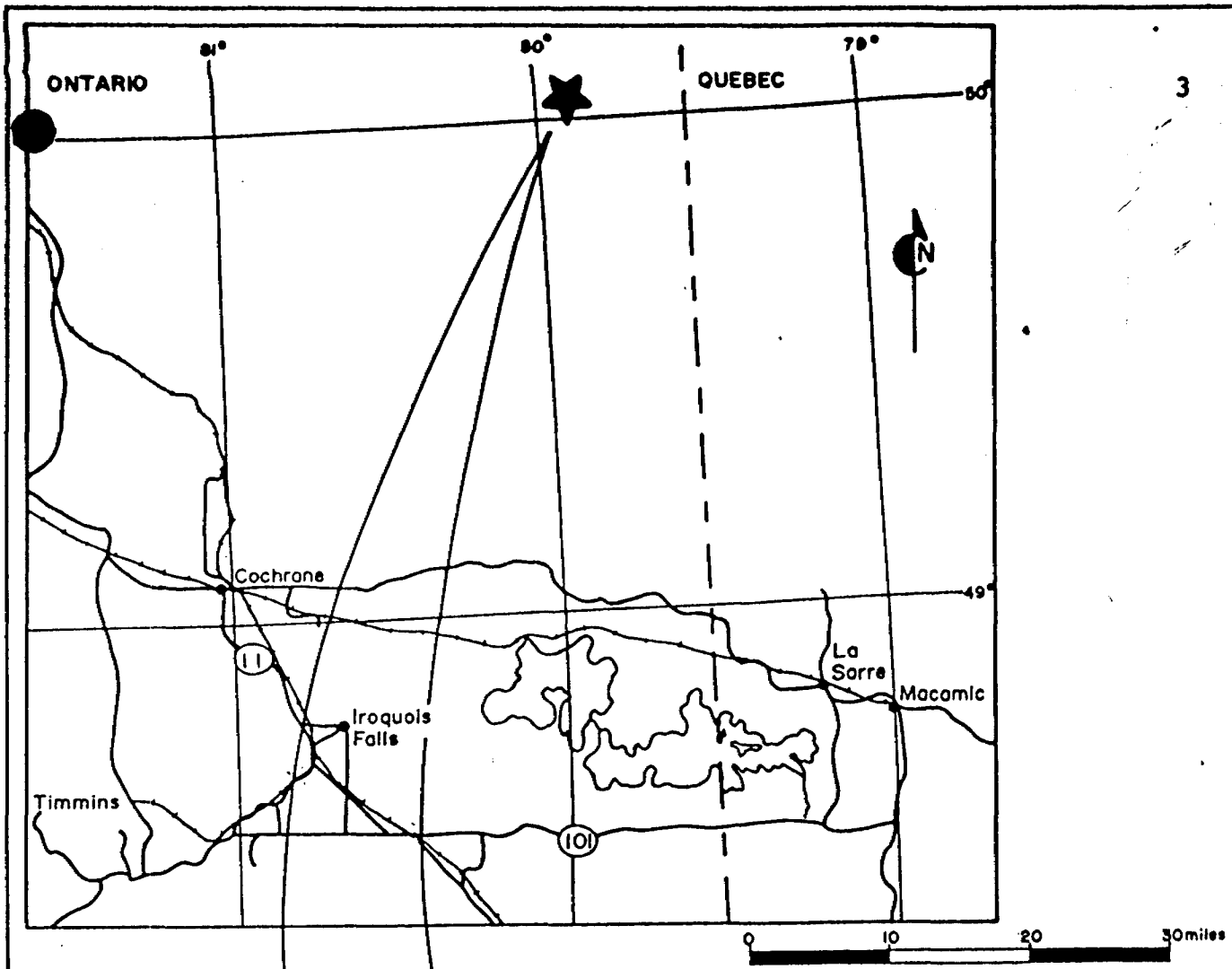
The purpose of the survey was to compliment a previous VLF, mag survey by MPH Consultants Ltd. (see report by D. Jones, May 1981). It was felt that the I.P. would outline possible disseminated sulphides which could host gold in this area.

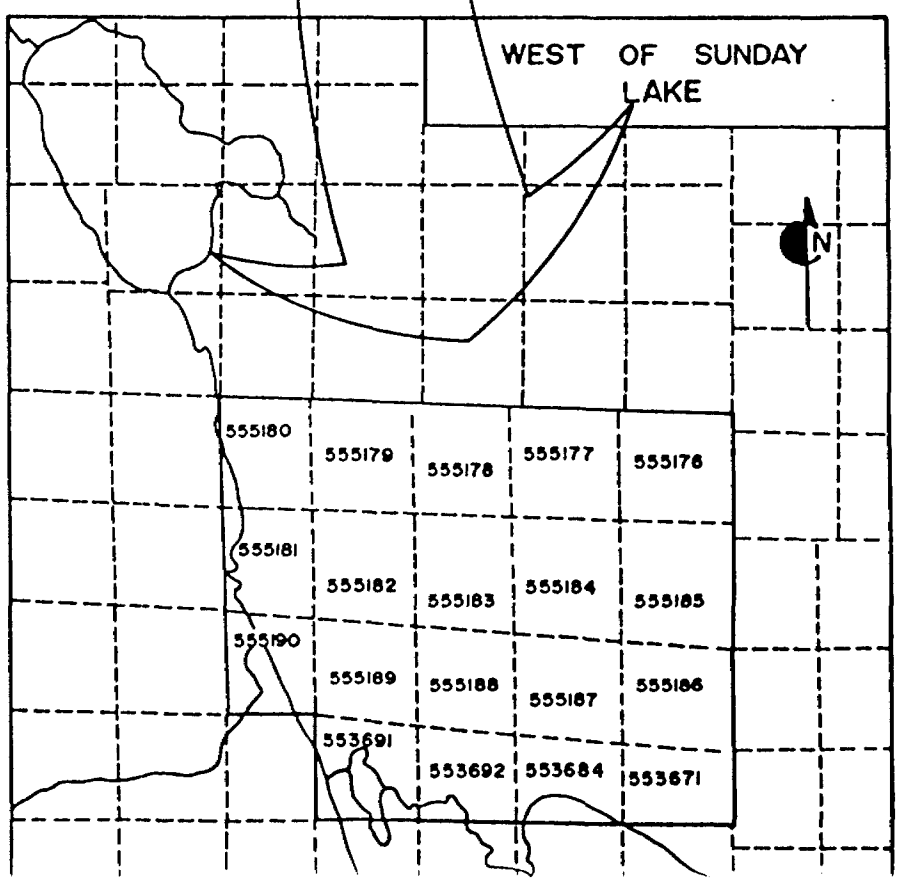
This report describes the surveys done and the results, with recommendations and conclusions.

2. LOCATION AND ACCESS

The property is located in the west of Sunday Lake township in the Porcupine Mining Division, District of Cochrane. It consists of 19 contiguous unpatented mining claims numbered 555176 - 555190 inclusive and 552691, 553692, 553684, and 553671.

The property is approximately 140 klm north-east of Cochrane. At the survey time, access was via fixed wing from Cochrane to Fault Lake which is on the property. Winter access from La Sarre P.Q. was possible but an all weather road from Cochrane is expected to be completed by October of 1983.





Scale : 1" = 1/2 mile

GLOBAL ENERGY CORPORATION

FAULT LAKE PROJECT

LOCATION MAP

Project No.	By:
Scale:	Drawn:
Drawing No.	Date:

Survey By: RAYAN EXPLORATION

4. SURVEY PARAMETERS

Horizontal Loop E.M. Survey

A total of 15 line miles were surveyed using an Apex Max-Min II instrument in the Maximum-coupled mode. A coil separation of 500 ft. was used and two frequencies, 1777 Hz & 444 Hz, were read. The survey area was relatively flat, therefore not requiring secant chained lines. Both In-phase and Out-of-phase values are plotted mid-way between the transmitter and receiver coils. The values are plotted on grid plan maps at a horizontal scale of 1 inch = 200 ft. The vertical scale is 1 inch = 20% for both I.P. and O.P. readings. The Max-Min data is presented on two maps, one for each frequency read.

5. INDUCED POLARIZATION SURVEY

A total of 15 line miles of I.P./Resistivity survey were ran with approximately 0.83 miles repeated in detail.

The method used was Time Domain with a Pole-Dipole electrode array. The transmitter was a Phoenix IPT-I console with a 2.0 KVA motor generator. A Crone (Newmont type) receiver was used. Stainless steel electrodes were used for both current positions while porous pots with copper sulphide were used for the receiver (Potential) electrodes. Two different infinity electrode locations were used with both being remote from the survey with negligible influence.

The entire grid was surveyed with an 'a' spacing of 200 ft reading N=I & N=2. Some anomalies were detailed with an 'a' spacing of 50 ft reading N=I & N=2. A 2 second pulse time was used for the survey.

Both chargeability and Aparrent Resistivity were recorded and are presented on 4 grid maps at a scale of I" = 200 ft. The values are plotted mid-way between the current electrode and the middle of the potential dipole. This could shift slightly under certain geological conditions. However in the author's experience in the area this is probably the best method.

PERSONNEL

The following personnel were involved with this project:

R.J. Meikle	North Bay, Ontario
B.P. Belanger	North Bay, Ontario
T.G. Howards	North Bay, Ontario
R. Mathieus	North Bay, Ontario
Y. Starsyk	North Bay, Ontario
D. Crowley	Timmins, Ontario

7. GEOLOGY

The geology of the survey area is beyond the scope of this report and will be dealt with in a separate report upon completion of geological mapping and trenching.

Unfortunately, the survey area is till covered and outcrop is at a minimum. Some trenching is being done on and as close as possible to some of the geophysical anomalies. No assays have been received at the time of this writing.

8. RESULTS

Max-Min Survey

The Max-Min Horizontal Loop survey showed very little relief. However there are 4 weakly anomalous areas which are discussed below.

HEM # 1 - This is a very weak quadrature only anomaly which runs from 28e - 44e. There is no I.P. or Resistivity anomaly associated with it. There is no magnetic correlation.

HEM # 2 - This is a very weak quadrature anomaly running from 48e to the east boundary. It lies within a unit of higher chargeability with background resistivity values. There is a magnetic low over this anomaly.

HEM # 3 - This is the only HEM anomaly with an In-phase response, the best part being on L48w @ 5+50s. The anomaly has a near coincident VLF response. It lies in an area of higher chargeability and a corresponding resistivity high. It correlates with a magnetic low.

HEM # 4 - This is a short, weak, quadrature anomaly on the southern flank of a chargeability anomaly. It has a coincident VLF response. It appears to be the southern contact of a geological unit which is outlined by the chargeability and corresponding change in magnetic susceptability.

9. INDUCED POLARIZATION SURVEY

Anomaly 'A' - This anomaly has a chargeability high and lies on the southern flank of a resistivitv high. There is no coincident EM anomaly and the magnetic survey stops short of this anomaly.

Anomaly 'B' - This anomaly could be an extension of 'A'. It is a chargeability high and correlates well with a unit of higher magnetic susceptability. There is a VLF anomaly on the southern flank of the anomaly. The setting is indicitive of a mafic tuff (non-magnetic) to the south and a massive basalt unit north of this which is magnetic and more chargeable. The VLF anomaly on the south flank of the chargeable zone could indicate sulphides on the contact between the two above mentioned geological units.

Anomaly 'C-D' - This anomaly parallels 'B' and has a very similar signature. Also, there is a weak Max-Min quadrature anomaly coincident with the VLF anomaly on the assumed contact zone. This could indicate a higher sulphide content. While not as pronounced as 'B', there is a magnetic high coincident with the chargeable zone.

Anomaly 'E' - This anomaly has a coincident mag, I.P. and E.M. anomaly with a resistivity high. The cause could be disseminated sulphides in a massive basalt unit. The mag response is indicitive of pyrrhotite mineralization.

Anomaly 'F' - This anomaly appears to lie in the same zone of high chargeability and high resistivity. However, there is no VLF or E.M. correlation.

Anomaly 'G' - This anomaly lies to the south of HEM anomaly # 3. It has a higher chargeability and slightly higher resistivity. There is no coincident mag or E.M. response.

Anomaly 'H' - This anomaly has a slightly higher than background chargeability and a higher resistivity. There is a spotty VLF correlation with the southern flank of the zone which again could be a contact with the more massive basalt causing the higher chargeabilities.

10. CONCLUSIONS

The I.P. and Max-Min surveys outlined several zones. For the most part, the I.P. anomalies are characterized by high chargeability and high resistivities with flanking EM anomalies to the south. In some cases the chargeability could be caused by the basalt. However, the VLF-EM response on the assumed southern contacts could be caused by sulphides.

Anomaly 'E' is interesting because of a coincident (pyrrhotite type) magnetic high and coincident VLF and Max-Min response. Both anomaly E & F could be caused by disseminated pyrrhotite in the basalt unit. HEM # 3 anomaly is also a priority target due to the better Max-Min response indicating a possibility of more stringer type sulphide mineralization. The anomalies run parallel to each other and have a similar geophysical signature.

11. RECOMMENDATIONS

While there is no "Detour Type" geophysical response on the property surveyed, there are several zones which could be caused by sulphides. These should be explained by drilling and or trenching. Anomalies B, D, E and F would be the priority targets with anomaly 'E' the most interesting. More trenching should be carried out where feasable even if only for geological control.

The geophysics done to date, seems adequate and the targets are defined well enough for drilling purposes.

CERTIFICATE

I, Robert Middleton of Timmins, Ontario hereby certify that:

1) I hold a Bachelor of Science (1968) and Master of Science (1969) degree in Applied Geophysics from Michigan Technology University, Houghton, Michigan.

2) I am familiar with survey work carried out by Rayan Exploration Ltd. and have reviewed the interpretational report by R.J. Meikle for the Global Energy Corporation and find that the work was carried out correctly in a professional and satisfactory manner. The technical aspects of this survey are correct and meet the specifications required to properly evaluate the property.

3) I hold no interest, directly or indirectly in this project or property and have reviewed the work done purely out of professional and acedemic interest.

R. Middleton

Timmins, Ontario, Canada

Robert Middleton P. Eng.

CERTIFICATE

I, Raymond Meikle of North Bay, Ontario hereby certify that:

1) I hold a 3 yr Technologist Diploma from the Haileybury School of Mines, Haileybury, Ontario.

2) I have based conclusions and recommendations contained in this report on knowledge of the area, my previous experience, and on the results of the field work conducted on the property during Aug-Sept, 1982 which was carried out under my overall supervision.

3) I hold no interest, directly or indirectly in this property other than professional fees, nor do I expect to receive any interest in the property or in Global Energy Corp. or any of it's subsidiary companies.

North Bay, Ontario, Canada

R.J. Meikle

Ministry of Natural [redacted]ces
Ontario

Report of Work

P-555176 #421 #

(Geophysical, Geological, Geochemical and Expenditures)

32L04SW9367 2.5366 WEST OF SUNDAY LAKE

900

The Mining Act

– Do not use shaded areas below.

Type of Survey(s): MAX-MIN EM AND INDUCED POLARIZATION	Township or Area: WEST OF SUNDAY LAKE
Claim Holder(s): INCAMAR EXPLORATIONS LIMITED	Prospector's Licence No.: T 836
Address: CEDAR HILL CONNAUGHT ONT	
Survey Company: RAYAN EXPLORATION LTD.	Date of Survey (from & to): 25 Day, 8 Mo., 82 Yr. – 20 Day, 9 Mo., 82 Yr. — Total Miles of line Cut:
Name and Address of Author (of Geo-Technical report): K. MERIKLE NORTH BAY — DON HILLIER VAN B.C.	

Credits Requested per Each Claim in Columns at right

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

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

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

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures $ ÷ 15 = Total Days Credits

Instructions

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

Date	Recorded Holder or Agent (Signature)
	[signature]

Mining Claims Traversed (List in numerical sequence)

Prefix	Number	Expend. Days Cr.
P-	555176	✓
	555177	✓
	555178	✓
	555179	✓
	555180	✓
	555181	✓
	555182	✓
	555183	
	555184	✓
	555185	✓
	555186	✓
	555187	✓
	555188	
	555189	✓
	555190	✓
	553191	✓
	553192	✓
	553684	✓
	553671	✓

RECEIVED NOV 16 1982 MINING LANDS SECTION

RECORDED NOV 12 1982

Receipt No.

See Revised Statement

Total number of mining claims covered by this report of work. 19

For Office Use Only		
Total Days Cr. Recorded: 40	Date Recorded: Nov 12/82	Mining Recorder: [signature]
	Date Approved as Recorded	Branch Director

Regional Mining Recorder

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying

MAURICE HUBBARD

Date Certified

2.5366

1984 06 13

Your File: 421
Our File: 2.5366

Mr. Bruce Hanley
Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

RE: Notice of Intent dated May 10, 1984.
Geological Survey on Mining Claims
P 555176 et al in the Area of West of
Sunday Lake.

The assessment work credits as listed with the above mentioned Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416) 965-6918

D. Kinvig:sc

cc: Ingamar Explorations Ltd
Cedar Hill
Connaught, Ontario
P0N 1A0

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

cc: Resident Geologist
Timmins, Ontario

1984 05 28

Your File: 421
Our File: 2.5366

Mr. Bruce Hanley
Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

RE: Notice of Intent dated May 10, 1984.
Geophysical (Electromagnetic) Survey
on Mining Claims P 555176 et al in
the Area of West of Sunday Lake.

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Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416) 965-69

D. Pichette:sc

cc: Ingamar Explorations Ltd
Cedar Hill
Connaught, Ontario
P0N 1A0

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

cc: Resident Geologist
Timmins, Ontario

✓

Ministry of Natural Resources
Ontario

Technical Assessment Work Credits

File 2.5366

Date 1984 05 10

Mining Recorder's Report of Work No. 421

Recorded Holder: INGAMAR EXPLORATIONS LTD

Township or Area: WEST OF SUNDAY LAKE AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	P 555176 to 92 inclusive 553684 553671
Electromagnetic _____ days	
Magnetometer _____ days	
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological 20 days	
Geochemical _____ days	
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☐	
☐ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

☐ not sufficiently covered by the survey ☒ Insufficient technical data filed

FOR ELECTROMAGNETIC ONLY

P 555176 to 92 inclusive
553684
553671

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77(19) — 60.

828 (83/6)

Ministry of Natural Resources
Ontario

May 25/84

Your file: 421

1984 05 10

Our file: 2.5366

Mr. Bruce W. Hanley
Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. F.W. Matthews at 416/965-6918.

Yours very truly,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

D. Pichette:mc
Encls.

cc: Ingamar Explorations Limited
Cedar Hill
Connaught, Ontario
P0N 1A0

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

845

Ministry of Natural Resources
Ontario

Notice of Intent

for Technical Reports

1984 05 10

2.5366/421

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Lands Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

REGISTERED

January 30, 1984 Our File: 2.5366

Ingamar Explorations Limited
Cedar Hill
Connaught, Ontario
PON 1AO

Dear Sirs:

RE: Geophysical (Electromagnetic) Survey
submitted on Mining Claims P 555176
et al in the Area of West of Sunday Lake

Enclosed is a copy of our letter dated August 4, 1983 and a copy of your letter dated October 6, 1983, requesting additional information for the above-mentioned survey.

Unless you can provide the required data by February 10, 1984, the mining recorder will be directed to cancel the Electromagnetic work credits recorded on November 12, 1982.

For further information, please contact Mr. F.W. Matthews at (416)965-1380.

Yours very truly,

J.R. Morton
Acting Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone:(416)965-1380

R. Pichette:mc

cc: Mining Recorder
Timmins, Ontario

Encl.

August 4, 1983 2.5366

Ingamar Explorations Limited
Cedar Hill
Connaught, Ontario
P0N 1A0

Dear Sirs:

RE: Geophysical (Electromagnetic) and Geological Survey on Mining Claims P 555176 et al in the area west of Sunday Lake.

Returned herein are the eight plans (in duplicate) for the above mentioned survey. Please sign all copies of the maps. Also, the geological map must be coloured, and the EM maps must have the raw readings plotted.

When returning this material, please quote file 2.5366.

For further information please contact Mr. F.W. Matthews at 416/965-1380.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

S. Hurst:sc

Encls:

cc: Mining Recorder
Timmins, Ontario

EM maps have not been returned.

INGAMAR EXPLORATIONS LIMITED

CEDAR HILL CONNAUGHT, ONTARIO P0N 1A0
TEL. (705) 433-3551 or (705) 264-3100
TELEX 067-81502

October 6, , 1983

E.F. Anderson, Director
Land Management Branch
Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3

SUBJECT: Geophysical (Electromagnetic) and Geological Survey on Mining Claims P555176 et al in area west of Sunday Lake. Your File 2.5366

Dear Sir:

As requested in your letter of August 4, 1983 we are returning the geological maps which have been coloured and signed. We have forwarded the EM maps to Rayan Exploration, North Bay, Ontario to have them plot the raw readings. Rayan will be forwarding them directly to you.

Thank you for your cooperation.

Sincerely,
INGAMAR EXPLORATIONS LIMITED

Irma Hibbard

Irma Hibbard, Vice-President
Enc.
IH/ab

*Global

Ministry of Natural Resources
Ontario

Geotechnical Report Approval

File 2.5366

Feb 4/83

Mining Lands Comments

maps not signed
- give me print colored

☐ To: Geophysics Mr Barlow

Comments

- Comp map must show raw readings plotted

☐ Approved ☐ Wish to see again with corrections | Date May 11/83 | Signature R Barlow

☐ To: Geology - Expenditures Mr Kustra

Comments

Map should be colored - Otherwise OK

☒ Approved ☐ Wish to see again with corrections | Date March 24/83 | Signature Kustra

☐ To: Geochemistry

Comments

☐ Approved ☐ Wish to see again with corrections | Date | Signature

☐ To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

1593 (81/10)

421

1983 01 31 2.5366

Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

We have received reports and maps for a Geophysical (Electromagnetic) and a Geological Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims P 555176 et al in the Area West of Sunday Lake.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

DW:sc

cc: Ingamar Explorations Limited
Connaught, Ontario
Attn: M. Hibbard.

KATTAWAGAMI RIVER G-1639

NEWNHAM CREEK G-1658

SUNDAY LAKE G-1677

HOPPER LAKE G-1636

80°00'

79°45'

50°07'30"

50°00'

07'

06'

05'

04'

03'

02'

01'

59'

58'

57'

56'

55'

54'

53'

52'

51'

50'

49'

48'

47'

46'

CLM 228

CLM 229

CLM 230

501794

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+ S. – MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File

LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
  - TOWNSHIPS, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" , SURFACE RIGHTS ONLY	◒
" , MINING RIGHTS ONLY	◒
LEASE, SURFACE & MINING RIGHTS	■
" , SURFACE RIGHTS ONLY	■
" , MINING RIGHTS ONLY	■
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	R
CANCELLED	C
SAND & GRAVEL	R

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 (1 KM) 2000 (2 KM)

AREA

WEST OF SUNDAY LAKE

M.N.R. ADMINISTRATIVE DISTRICT
COCHRANE

MINING DIVISION
PORCUPINE

LAND TITLES / REGISTRY DIVISION
COCHRANE

Ontario Ministry of Natural Resources — Land Management Branch

Date DECEMBER 1982

Number G-1680

555177

555178

555185

Spruce

some small spruce trees

555184

some small spruce trees

Spruce

555179

555186

String Bag

555180

555183

some small spruce trees

555187

Spruce

555182

Spruce

555181

555188

Spruce & Alder

555189

Spruce

553671

553684

Spruce

555190

Spruce

553692

553691

Spruce & Alder

Spruce & Alder

FAULT LAKE

Global Energy Ltd.

LEGEND

1 MAFIC TO INTERMEDIATE METAVOLCANICS

1a Massive Flow
1b Tuff
1c Pillow Lava
1d Amygdaloidal
Garnet Bearing
1f Vesicular
1g Foliated
1h Porphyritic (feldspar phenocrysts)

2 FELSIC METAVOLCANICS

3 MAGNATITE

Foliation (vertical, inclined, dip unknown)

Lineation with plunge — Sheared zone

Direction of flow top (arrow) from pillows

Area of bedrock outcrop

Small bedrock outcrop

Muskeg

Area of muskeg

Hill

Road

Creek with direction of flow

Shore line

Property boundary

Lake

Mineralization (pyrite, pyrrhotite)

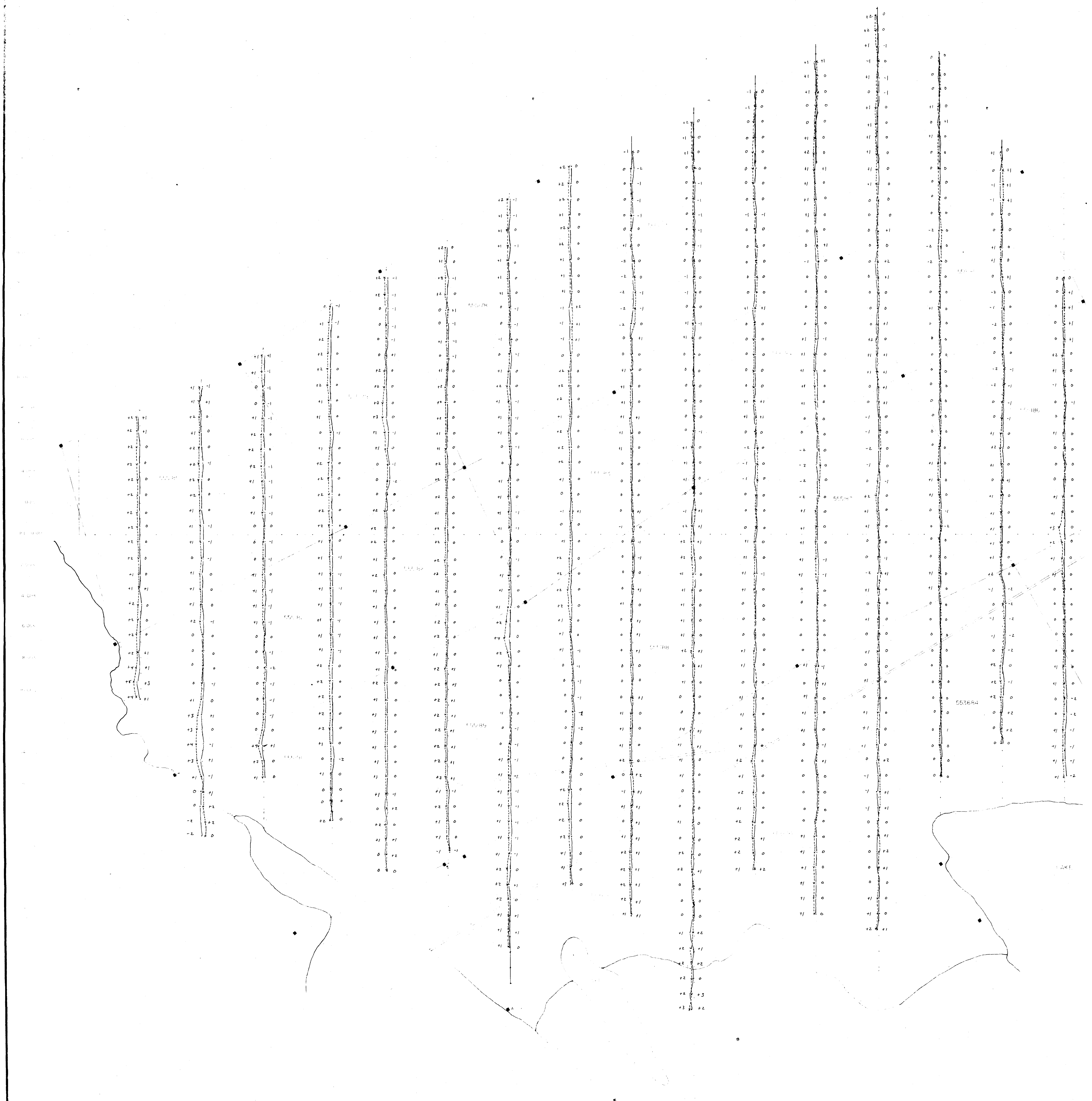
Geological boundary (observed, assumed)

Claim post, Witness post

2,5366

SCALE 1:200'


555180
555181
555182
555183
555184
555185
555186
555187
555188
555189
555190




1,000
2,000
4,000

555178
555179
555184
555185
555186
555180
555183
555187
555182
555181
555188
555189
553684
555190
553692
553691
LAKE

555177

555178

555179

555180

555181

555182

555133

555184

555185

555186

555187

555188

555189

555190

553691

553692

553684

LAKE

EAGLE LAKE

LAKE

344,546
248,348
132,329

$60,479
144,388
302,465

2 00 n
0 00
BL 0 00
2 00 s
4 00 s
6 00 s
8 00 s
10 00 s
12 00 s
14 00 s
16 00 s
18 00 s
20 00 s
22 00 s
24 00 s
18 00 n
16 00 n
14 00 n
12 00 n
10 00 n
8 00 n
6 00 n
4 00 n
2 00 n

ANOMALY A

ANOMALY B

555185

ANOMALY C

555184

HEM #1

555186

ANOMALY D

555187

ANOMALY E

ANOMALY F

ANOMALY G

553684

ANOMALY H

555184

555187

555188

553684

553186

553674

5536?2

LAKE

INSTRUMENT: Apex Max-Min II

FREQUENCY: 1777 Hz.

COIL SEPERATION: 500 ft.

MODE: Maximum Coupled

VERTICAL SCALE: 1" = 20%

Out-of-phase

In-phase

+10%

0

-10%

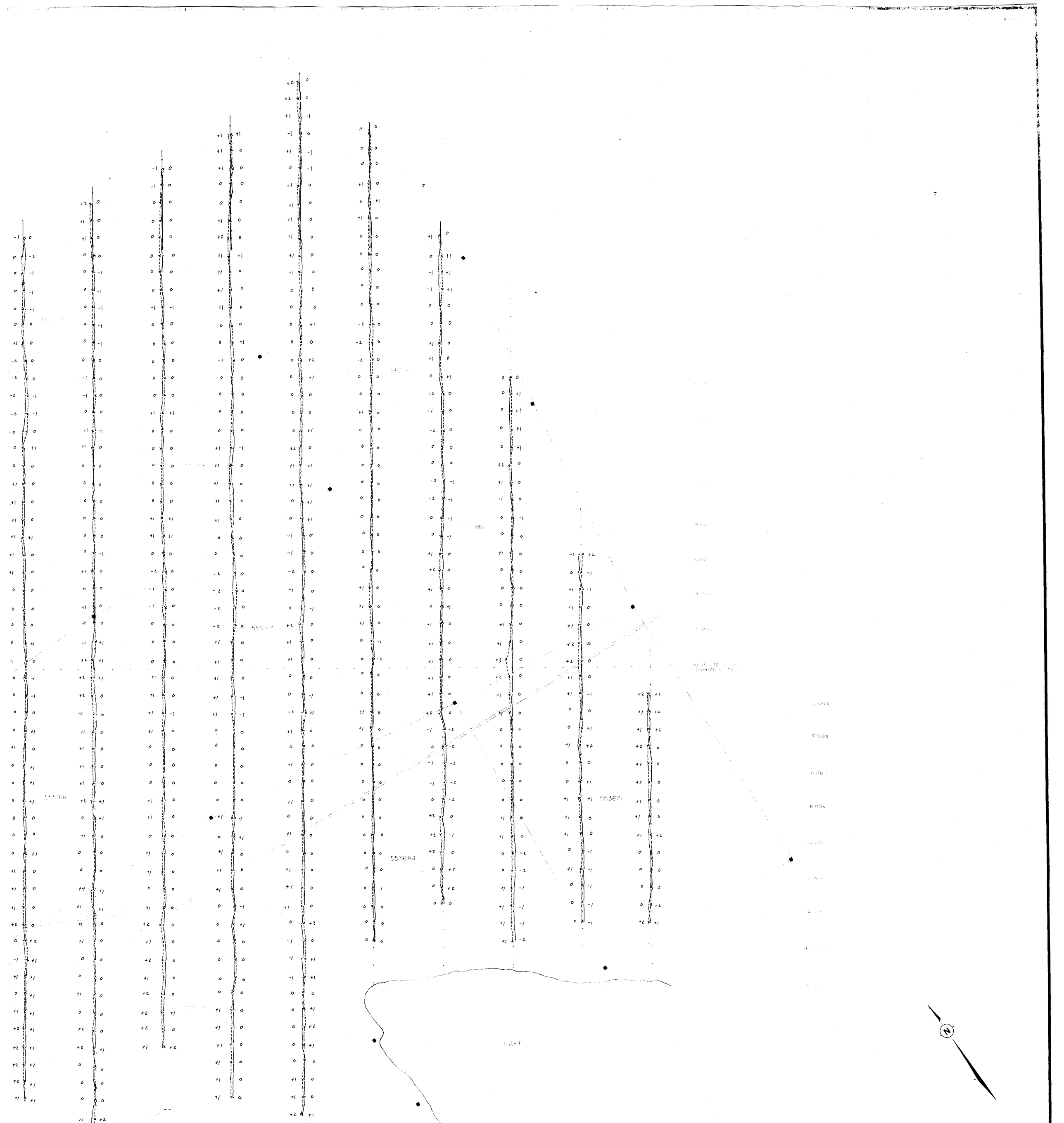
GLOBAL ENERGY CORPORATION

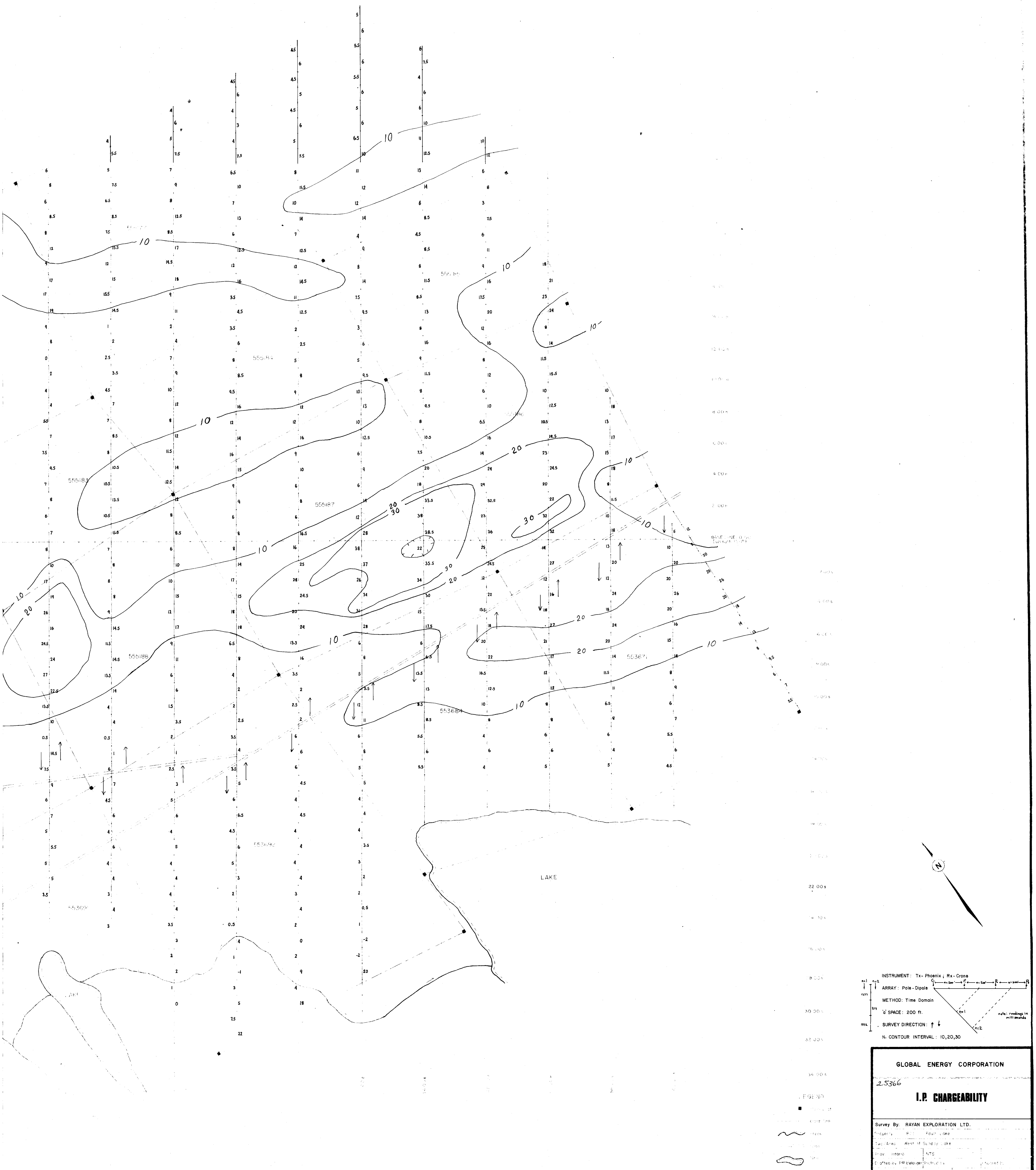
25366

HORIZONTAL LOOP SURVEY

Survey By : RAYAN EXPLORATION LTD.

MAP no. 1


553688
553671
LAKE
N
INSTRUMENT: Apex Max Min II
FREQUENCY: 444 Hz.
COIL SEPERATION: 500 ft.
MODE: Maximum Coupled
VERTICAL SCALE : 1"=20%
0 + 90 phase
In - phase
+10%
0
-10%
GLOBAL ENERGY CORPORATION
2.5366
HORIZONTAL LOOP SURVEY
Survey By: RAYAN EXPLORATION LTD.
MAP no. 2



GLOBAL ENERGY CORPORATION

2.5366

I.P. CHARGEABILITY

Survey By: RAYAN EXPLORATION LTD.

Property: Fault Lake

Twp/Area: West of Sandy Lake

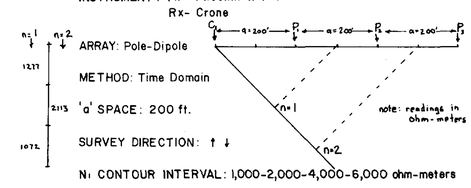
Prov: Ontario | NTS

Drafted by: PR Belanger | Plotted by | Checked by

Date: September 1982

MAP no. 3

INSTRUMENT : Tx- Phoenix IPT-1
Rx- Crone



ARRAY: Pole-Dipole

METHOD: Time Domain

'a' SPACE: 200 ft.

SURVEY DIRECTION: ↑ ↓

N CONTOUR INTERVAL: 1,000-2,000-4,000-6,000 ohm-meters

25366

APPARENT RESISTIVITY SURVEY

Survey by: RAYAN EXPLORATION LTD.

MAP no.4

555177

555185

555184

555186

555183

555187

555188

553684

553692

553691

553671

LAKE

LAKE

BASE LINE 0.00
(azimuth 120°)

24.00n
22.00n
20.00n
18.00n
16.00n
14.00n
12.00n
10.00n
8.00n
6.00n
4.00n
2.00n

2.00s
4.00s
6.00s
8.00s
10.00s
12.00s
14.00s
16.00s
18.00s
20.00s
22.00s
24.00s
26.00s
28.00s
30.00s
32.00s
34.00s

44.00e
48.00e

INSTRUMENT: Tx- Phoenix IPT-1 ; Rx- Crone
ARRAY: Pole-Dipole
METHOD: Time Domain
'a' SPACE: 50ft.
SURVEY DIRECTION: ↑↓
N, CONTOUR INTERVAL: 10,20,30

note: readings in milliseconds

LEGEND
claim post
claim line
creek
road
lake

GLOBAL ENERGY CORPORATION

2.5366

I.P. CHARGEABILITY

Survey By: RAYAN EXPLORATION LTD.
Property: 821 Fault Lake
Twp/Area: West of Sunday Lake
Prov: Ontario | NTS | Map # 5
Drafted by: P.R. Belanger | Plotted by: | Checked by:
Scale: 1:2400 | Date: September 1982

555176

555177

555185

555184

555186

555187

555188

553684

553692

553671

LAKE

BASE LINE 0.00
(azimuth 120°)

24.00n
22.00n
20.00n
18.00n
16.00n
14.00n
12.00n
10.00n
8.00n
6.00n
4.00n
2.00n

2.00s
4.00s
6.00s
8.00s
10.00s
12.00s
14.00s
16.00s
18.00s
20.00s
22.00s

INSTRUMENT: Tx- Phoenix IPT-I ; Rx-Crone

ARRAY: Pole-Dipole

METHOD: Time Domain

'a' SPACE: 50 ft.

SURVEY DIRECTION: 1 ↓

N₁ CONTOUR INTERVAL: 1,000-2,000-4,000-6,000 ohm-meters

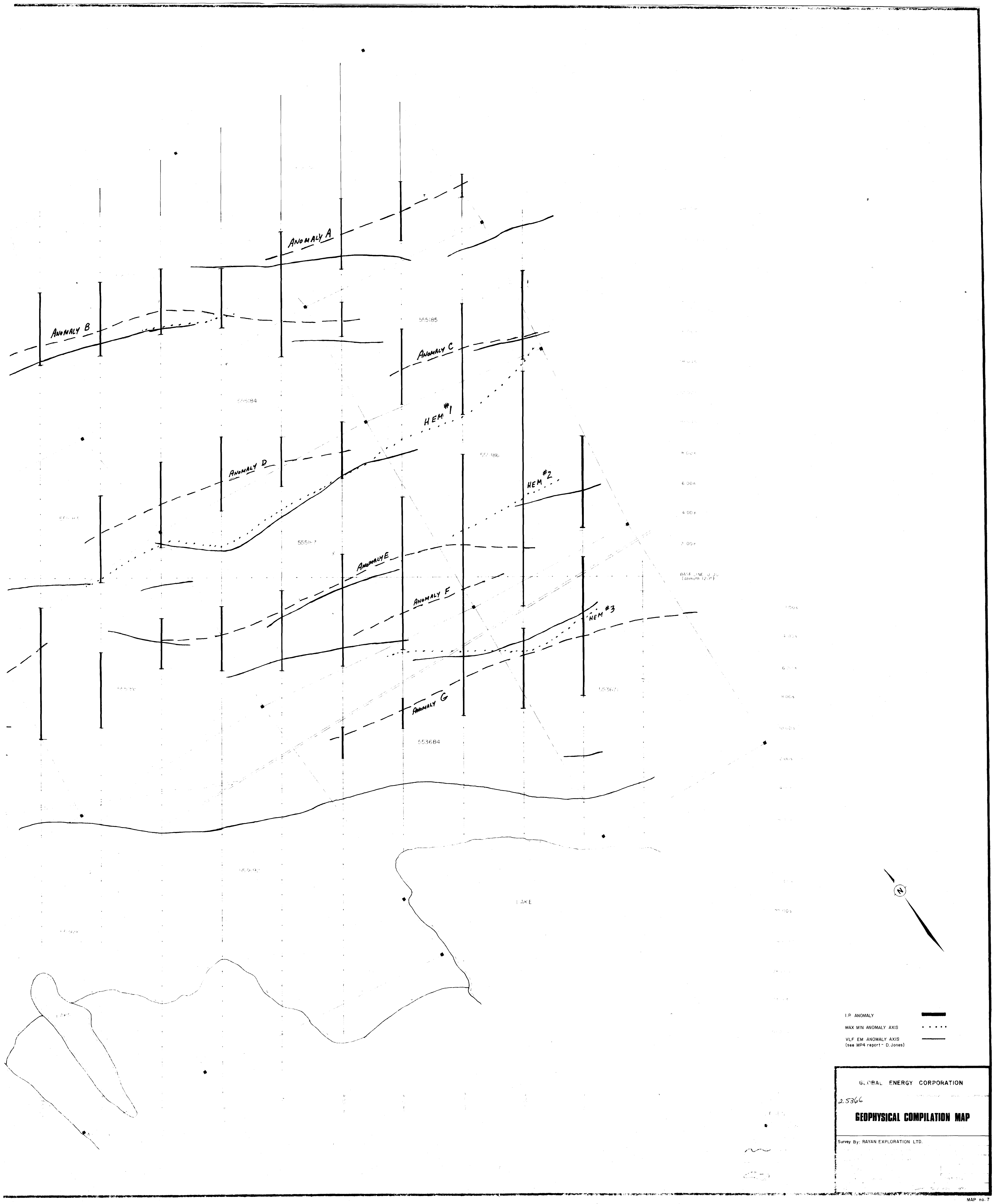
note: readings in ohm-meters

GLOBAL ENERGY CORPORATION

2.5366

APPARENT RESISTIVITY SURVEY

Survey By: RAYAN EXPLORATION LTD.



GLOBAL ENERGY CORPORATION

2.5366

GEOPHYSICAL COMPILATION MAP

Survey By: RAYAN EXPLORATION LTD.

MAP no. 7