Proton Magnetometer

and

VLF Electromagnetic

Surveys

MCGruer Lake Project

NTS 53-B-15

Phantom Exploration Services Ltd.

September, 1988

R. D. Middaugh

INTRODUCTION

Golden Eagle Resources Inc. of Toronto, Ontario contracted Phantom Exploration Services Ltd. of Thunder Bay, Ontario to conduct magnetic and electromagnetic (VLF) surveys on their McGruer Lake Project during the summer of 1988.

LOCATION, ACCESS AND GRID

The property is located 110 miles north northwest of Pickle Lake, Ontario, 190 miles northeast of Red Lake, Ontario and 25 miles east of the Indian Reserve at Round Lake. The area is protected by 32 unpatented mining claims numbered Pa 880480-483 inclusive, Pa 880485-487 inclusive, Pa 901236-39 inclusive, Pa 901241-48 inclusive, Pa 901255-58 inclusive, Pa 901301-303 inclusive and Pa 901431-436 inclusive located in the Patricia Mining Division.

Access to the property can be gained by float or ski-equipped aircraft from Round Lake, or the charter base at Windigo Lake, 29 miles to the south. Round Lake is not accessible by road, but does have a gravel airstrip capable of landing DC-3 sized aircraft, and has scheduled air service from larger centres in Northwestern Ontario. The base at Windigo Lake which is connected to Pickle Lake by an all weather gravel road, is operated intermittently and arrangements should be made well in advance with Gold Belt Air Transport Inc. in Pickle Lake.

The grid was established by Phantom Exploration in conjunction with Mr. Al Loranger and company. Approximately 51 kilometers of line was cut, chained and picketed at 25 meter intervals.

PERSONNEL

The day to day work was carried out by company employees while the overall supervision of the geophysical program was carried out by R. D. Middaugh also of Phantom Exploration Services Ltd.

INSTRUMENTATION

Magnetic

A proton procession magnetometer (model omni IV) manufactured by EDA Instruments of Toronto. Ontario was used for this survey. The total field was read with a resolution of one gamma and all the field values were corrected for diurnal variations using another omni IV magnetometer in the base station mode. Readings were recorded at 12.5 meter intervals on the grid lines.

Electromagnetic

A VLF EM-16 unit manufactured by Geonics Limited of Mississauga, Ontario was used for this survey. Both in and out of phase components were recorded at 12.5 meter intervals on the grid lines. The transmitter station used was Cutler, Maine with a frequency of 24.0 KHz.

DISCUSSION OF RESULTS

Magnetic

The grid area is presented in plan form at a scale of 1:2500. The corrected magnetic data is plotted on this map and where feasible contoured at 200 gamma intervals.

Although no regional magnetic gradient is evident, the data does indicate that the underlying rocks exhibit a distinct east southeast regional magnetic trend. Preliminary reconnaissance mapping carried out by Michael Smith Consulting indicates these rocks consist primarily of mafic volcanics and clastic sediments with accompanying chemical sedimentary iron formations.

One of the most prominent magnetic features is the large high located at the east end of McGruer Lake. The cause of this feature is not clearly understood at this time. The other prominent features consist of thin, magnetic highs that outline the regional trend and are thought to represent the magnetite-rich iron formations. The variability and somewhat discontinuous nature of these trends are thought to be caused by the varying amount of magnetite in the iron formations and the lensoidal nature of the formations themselves.

Intimately associated magnetic highs and lows such as that located on line 22+00 E at about 12+00 N are probably due to dipole effects.

Electromagnetic

The survey area is presented in plan form at a scale of 1:2500 with a vertical scale set at 1 inch = 25% for the EM profiles.

All of the anomalies conform to the regional magnetic trend and with few exceptions are directly related to the thin magnetic highs that cross the property indicating they probably represent the generally poorly conductive iron formations.

It is interesting to note that although most conductive trends have strong magnetic association, not all magnetic features are conductive. An excellent example of this is found on line 22+00 E at about 12+00 N. Also of note is the fact that the conductivity seems to improve along a trend when the magnetic signature is weaker such as the western portion of the anomaly H-H.

The conductive trends are summarized below.

Anomaly	Conductivity	Magnetic Association	Comments
A-A	poor	nil	topo feature
B-B	poor-moderate	moderate	iron formation
C-C	moderate-good	good	"
D-D	moderate-good	good	"
E-E	moderate-good	good	"
F-F	poor-moderate	poor	eastern extension of E-E
G-G	poor-moderate	moderate	iron formation
G_1-G_1	good	weak	"

H-H	good-moderate	good	iron formation
I-I	good	good	"
J-J	poor	nil	topo feature
K-K	poor	weak	iron formation
L-L	poor	nil	topo feature

Note: anomalies H,I & K may simply be one continuous anomaly.

CONCLUSIONS AND RECOMMENDATIONS

The survey area is underlain by a near vertical dipping, east southeast trending sequence of rocks. The magnetic and most of electromagnetic anomalies seem to be related to the magnetite-rich sedimentary iron formations.

Detailed mapping and prospecting should be carried out in order to better understand and evaluate the geophysical results and the economic potential of the area. Since the main interest on the property is gold mineralization, a geochemical survey of a suitable nature may better define gold bearing horizons not necessarily outlined by the geophysical methods used to date. Where overburden thickness makes it feasible, stripping, trenching and sampling of the anomalous trends should be carried out.

Subsequent to the above recommendations, a drill program should be considered to test any resulting target areas.

Submitted by

Phantom Exploration Services Ltd.

R.D. Niddaugh

Geologist

Appendix

Map 1.	Location Map
Map 2.	Magnetometer Readings - North Section
Map 3.	Magnetometer Readings - South Section
Map 4.	Magnetometer Contoured - North Section
Map 5.	Magnetometer Contoured - South Section
Map 6.	VLF Profiles - North Section
Map 7.	VLF Profiles - South Section

Ministry of Natural Resources
Ontario

Report of Work
(Geophysical, Geological, Geochemical and Expenditures)

DOCUMENT NO. W8803.23

53B15NW0004 2.11762 SEESEEP LAKE

900

MINING LANDS

W88-2299 Mining Ac

Type of Survey(s): GEOPHYSICAL	Township or Area: G-2204/G-2029 SEESEEP LK/ERICHSEN LK.
Claim Holder(s): GOLDEN EAGLE RESOURCES INC.	Prospector's Licence No.: T 5116
Address: SUITE 402, 27 QUEEN ST E.	
Survey Company: PHANTOM EXPLORATION	Date of Survey (from & to): 14 06 88 (Day Mo. Yr.) 14 09 88 (Day Mo. Yr.)
Name and Address of Author (of Geo-Technical report)	Total Miles of line Cut: 51.2 km

Credits Requested per Each Claim in Columns at right

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

RECEIVED
NOV 1988
MINING LANDS SECTION

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
Pa	880480	60
	880481	60
	880482	60
	880483	40
	880485	60
	880486	40
	880487	40
	901236	60
	901237	60
	901238	60
	901239	60
	901241	60
	901242	60
	901243	60
	901244	60
	901245	60
	901246	60
	901247	60
	901248	60
	901255	60
	901256	60
	901257	60
	901258	60

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
Pa	901301	60
	901302	60
	901303	40
	901431	60
	901432	60
	901433	60
	901434	60
	901435	60
	901436	60

RECEIVED
OCT 28 1988
PATRICIA MINING DIVISION

Total number of mining claims covered by this report of work: 32

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.

For Office Use Only		
Total Days Cr. Recorded: 1920	Date Recorded: OCTOBER 28/88	Mining Recorder
	Date Approved as Recorded	Branch Director

Date	Recorded Holder or Agent (Signature)
Oct 10/88	Michael Smith

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying: Michael Smith, 70-23rd ST ETOBICOKE, ONT M8V 3N2

Date Certified	Certified by (Signature)
OCT 10/88	Michael Smith

1362 (81/9)

Ministry of Northern Development and Mines

Ontario

Geophysical-Geological-Geochemical Technical Data Statement

File _____

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

Type of Survey(s) GEOPHYSICAL

Township or Area SEESEEP LAKE / ERICHSEN LAKE

Claim Holder(s) Bolton Eagle

Survey Company PHANTOM EXPLORATION SERVICES LTD

Author of Report R.D. MIDDAUGH

Address of Author 736 ALICE AVE RR#14 THUNDER BAY

Covering Dates of Survey JUNE 14/88 – SEPT 14/88
(linecutting to office)

Total Miles of Line Cut 51.2 km

SPECIAL PROVISIONS CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
--Electromagnetic	40
--Magnetometer	20
--Radiometric	
--Other	
Geological	
Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: Sept 14/88 SIGNATURE: R.D. Middaugh
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

See attached sheet
(prefix) (number)

If space insufficient, attach list

TOTAL CLAIMS 32

OFFICE USE ONLY

837 (85/12)

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

Number of Stations MAG 4131 VLF 3645 Number of Readings MAG 3585 VLF 3585

Station interval 12.5 Meters Line spacing 100 Meters

Profile scale VLF 1 IN = 25 %

Contour interval MAG 200 gammas

MAGNETIC

Instrument EDA OMNI IV PROTON MAGNETOMETER

Accuracy – Scale constant ± 1 gamma

Diurnal correction method Base station recorder

Base Station check-in interval (hours) N/A

Base Station location and value N/A

ELECTROMAGNETIC

Instrument GEONICS EM-16

Coil configuration 90° to each other

Coil separation N/A

Accuracy ± 1 %

Method: ☑ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency CUTLER MAINE 24.0 KHz
(specify V.L.F. station)

Parameters measured in and out of phase components

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

INDUCED POLARIZATION / RESISTIVITY

Instrument

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time Frequency

– Off time Range

– Delay time

– Integration time

Power

Electrode array

Electrode spacing

Type of electrode

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

_____

Corrections made _____

_____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

_____

Additional information (for understanding results) _____

_____

_____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

_____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken_____

Total Number of Samples_____

Type of Sample_____
(Nature of Material)

Average Sample Weight_____

Method of Collection_____

Soil Horizon Sampled_____

Horizon Development_____

Sample Depth_____

Terrain_____

Drainage Development_____

Estimated Range of Overburden Thickness_____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis_____

General_____

ANALYTICAL METHODS

Values expressed in: per cent ☐
p. p. m. ☐
p. p. b. ☐

Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others_____

Field Analysis (_____ tests)

Extraction Method_____

Analytical Method_____

Reagents Used_____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method_____

Analytical Method_____

Reagents Used_____

Commercial Laboratory (_____ tests)

Name of Laboratory_____

Extraction Method_____

Analytical Method_____

Reagents Used_____

General_____

Pa 880480
Pa 880481
Pa 880482
Pa 880483
Pa 880485
Pa 880486
Pa 880487
Pa 901236
Pa 901237
Pa 901238
Pa 901239
Pa 901241
Pa 901242
Pa 901243
Pa 901244
Pa 901245
Pa 901246
Pa 901247
Pa 901248
Pa 901255
Pa 901256
Pa 901257
Pa 901258
Pa 901301
Pa 901302
Pa 901303
Pa 901431
Pa 901432
Pa 901433
Pa 901434
Pa 901435
Pa 901436

Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Mining Lands Section
3rd floor, 880 Bay Street
Toronto, Ontario
M5S 1Z8

Telephone: (416) 965-4888

December 2, 1988

Your file: W8803-239
Our file: 2.11762

Mining Recorder
Ministry of Northern Development and Mines
Court House
P.O. Box 3000
Sioux Lookout, Ontario
P0V 2T0

Dear Madam:

Re: Notice of Intent dated November 17, 1988
Geophysical (Electromagnetic and Magnetometer) Survey submitted on
Mining Claims Pa 880480 et al in Seeseep & Erichsen Lakes Areas

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,

W.R. Cowan
Provincial Manager, Mining Lands
Mines & Minerals Division

SH:pl
Enclosure

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

Resident Geologist
Sioux Lookout, Ontario

Golden Eagle Resources Inc.
Suite 402
27 Queen Street E.
Toronto, Ontario
M5C 2M6

Mr. R.D. Middaugh
736 Alice Ave.
R.R. #14
Thunder Bay, Ontario
P7B 5E5

Mr. Michael Smith
70 - 23rd Street
Etobicoke, Ontario
M8V 3N2

Ministry of Northern Development and Mines
Ontario

Technical Assessment Work Credits

File 2.11762

Date November 17, 1988

Mining Recorder's Report of Work No. W8803-239

Recorded Holder
Golden Eagle Resources Inc.

Township or Area
Seeseep and Erichsen Lakes Area

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic 40 days	Pa 880480 to 483 inclusive 880485 901237 to 239 inclusive 901241-42 901244 to 248 inclusive 901255 to 258 inclusive 901301-02 901431 to 436 inclusive
Magnetometer 20 days	
Radiometric ____ days	
Induced polarization ____ days	
Other ____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological ____ 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

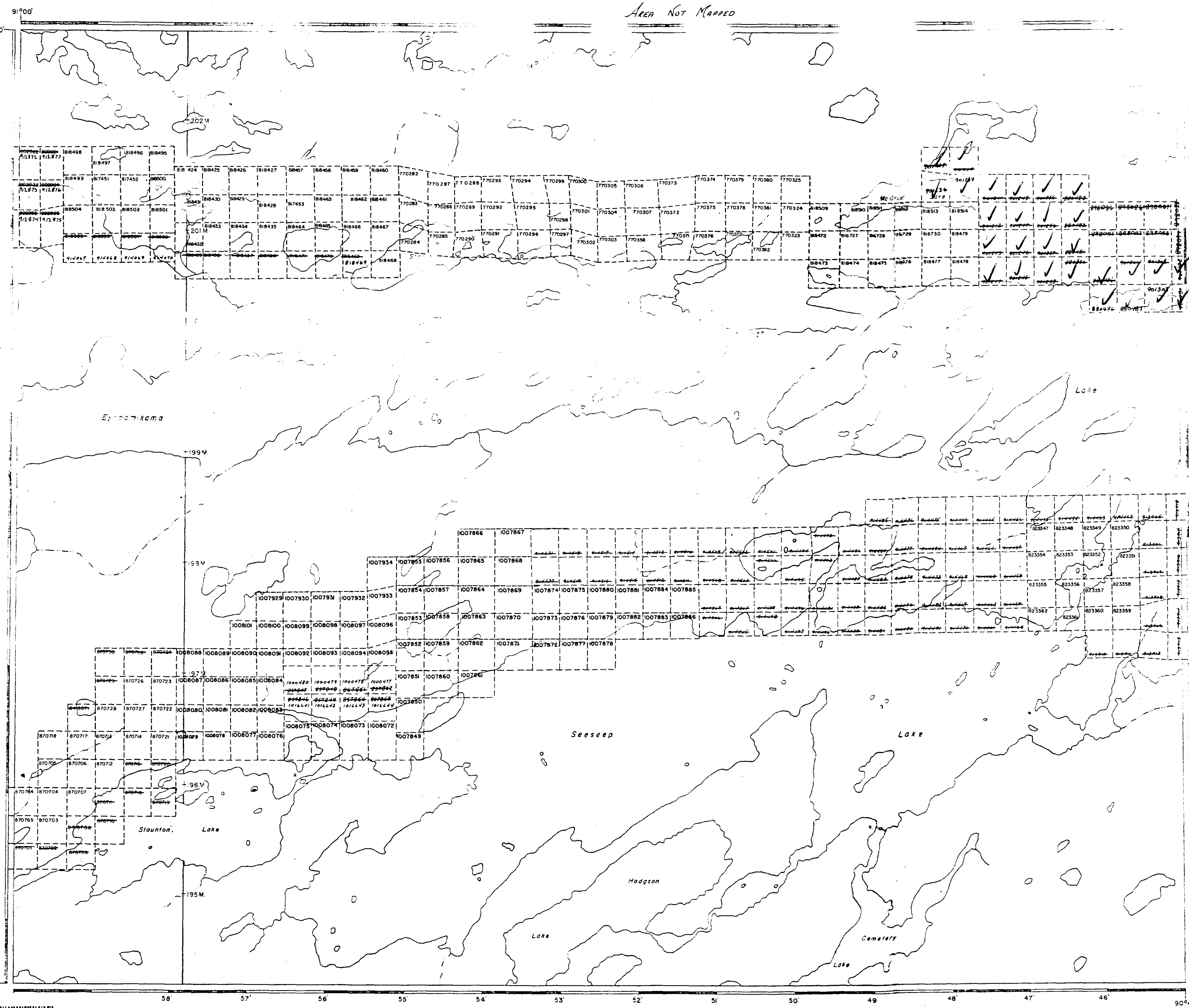
20 days Electromagnetic
10 days Magnetometer

Pa 880486-87
901236-43
901303

No credits have been allowed for the following mining claims

☐ not sufficiently covered by the survey ☐ insufficient technical data filed

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; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.



KEEYASK LAKE G-2085

ERICHSEN LAKE - G-2029

CEMETERY LAKE G-1989

ROADS

FLOODING OR FLOODING RIGHTS
SUBDIVISION OR COMPOSITE PLAN
RESERVATIONS
SHORELINE

TYPE OF DOCUMENT — SYMBOL
SURFACE & MINING RIGHTS
SURFACE RIGHTS ONLY
MINING RIGHTS ONLY

R E F E R E N C E S

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. MINING RIGHTS ONLY

SCALE: 1 INCH = 40 CHAINS

AREA

SEESEEP LAKE

M.N.R. ADMINISTRATIVE DISTRICT

SIOUX LOOKOUT

MINING DIVISION

PATRICIA

LAND TITLES / REGISTRY DIVISION

KENORA (PATRICIA PORTION)

Ministry of Natural Resources, Ontario — Land Management Branch

G-220

RECEIVED OCT - 6 1988 PATRICIA MINING DIVISION

53B15NW0004 2.11762 SEESEEP LAKE

200

AREA NOT MAPPED

90°45' 90°30' 53°00' 52°52'30"

Schade

Lake

Erichsen Lake

Eyapamikama Lake

Seeseep Lake

Doubtful Lake

Gimlet Lake

43' 42' 41' 40' 39' 38' 37' 36' 35' 34' 33' 32' 31'

59' 58' 57' 56' 55' 54' 53'

N.E. of N. Caribou Lake

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	⊕
CANCELLED	⊗
SAND & GRAVEL	⊕

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.

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
RIWITHDRAWN	W46/87	APRIL 21/87	MNS	188551

Dec 2/85
Mar. 4/86
April 18/86

Aug. 8/86
SEPT. 16/86
Sept 24/86
Oct 23/86
Nov 6/86
DEC 31/86
Mar 3/87
Apr 6/87
Apr 13/87
Apr 30/87
June 17/87
Sept 2/87
Oct 1/87

RECEIVED
OCT - 6 1988
PATRICIA MINING DIVISION

SCALE: 1 INCH = 40 CHAINS

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

AREA

ERICHSEN LAKE

M.N.R. ADMINISTRATIVE DISTRICT
SIOUX LOOKOUT
MINING DIVISION
PATRICIA
LAND TITLES / REGISTRY DIVISION
KENORA (PATRICIA PORTION)

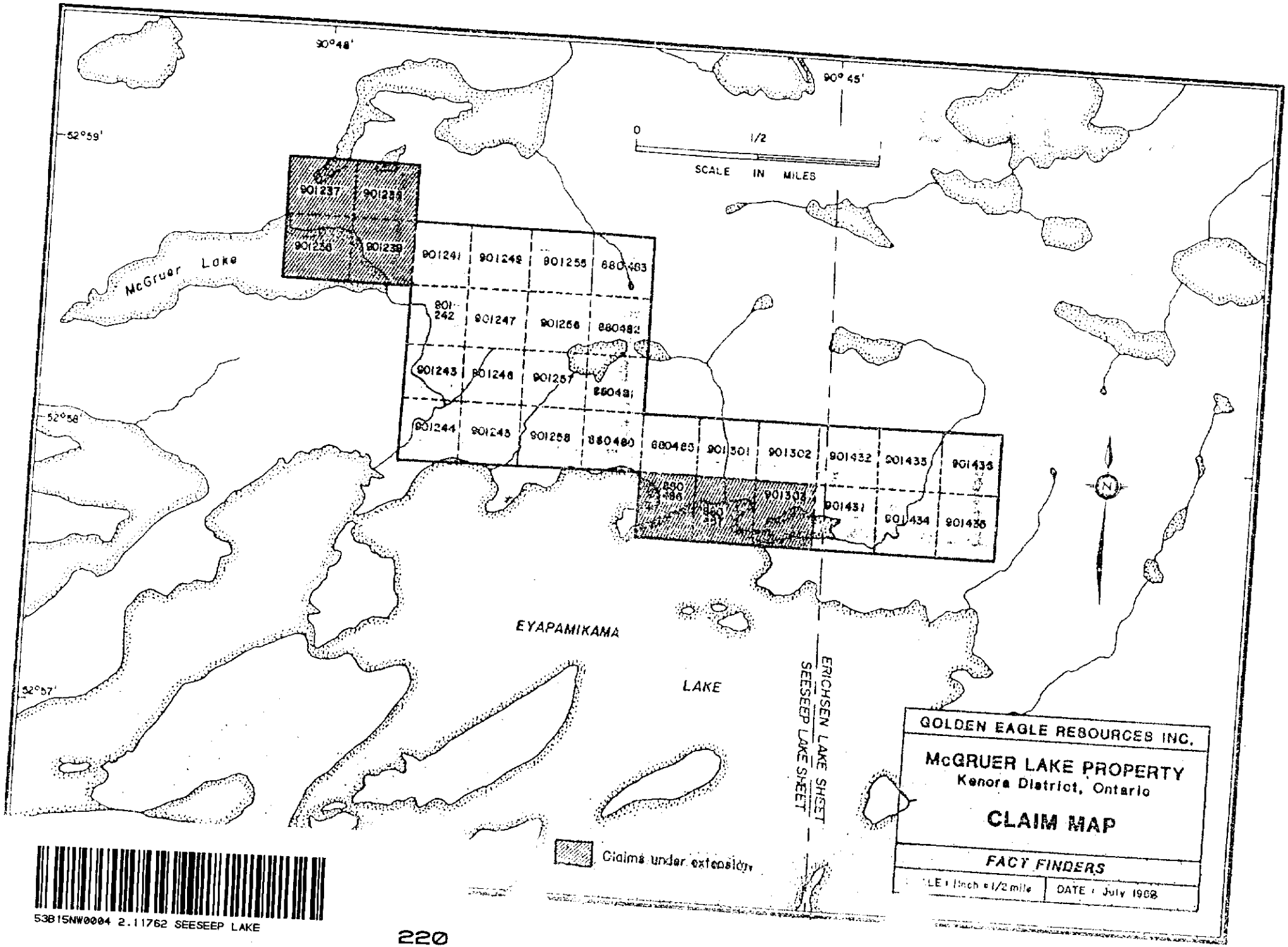
Ministry of Natural Resources — Land Management Branch
Ontario

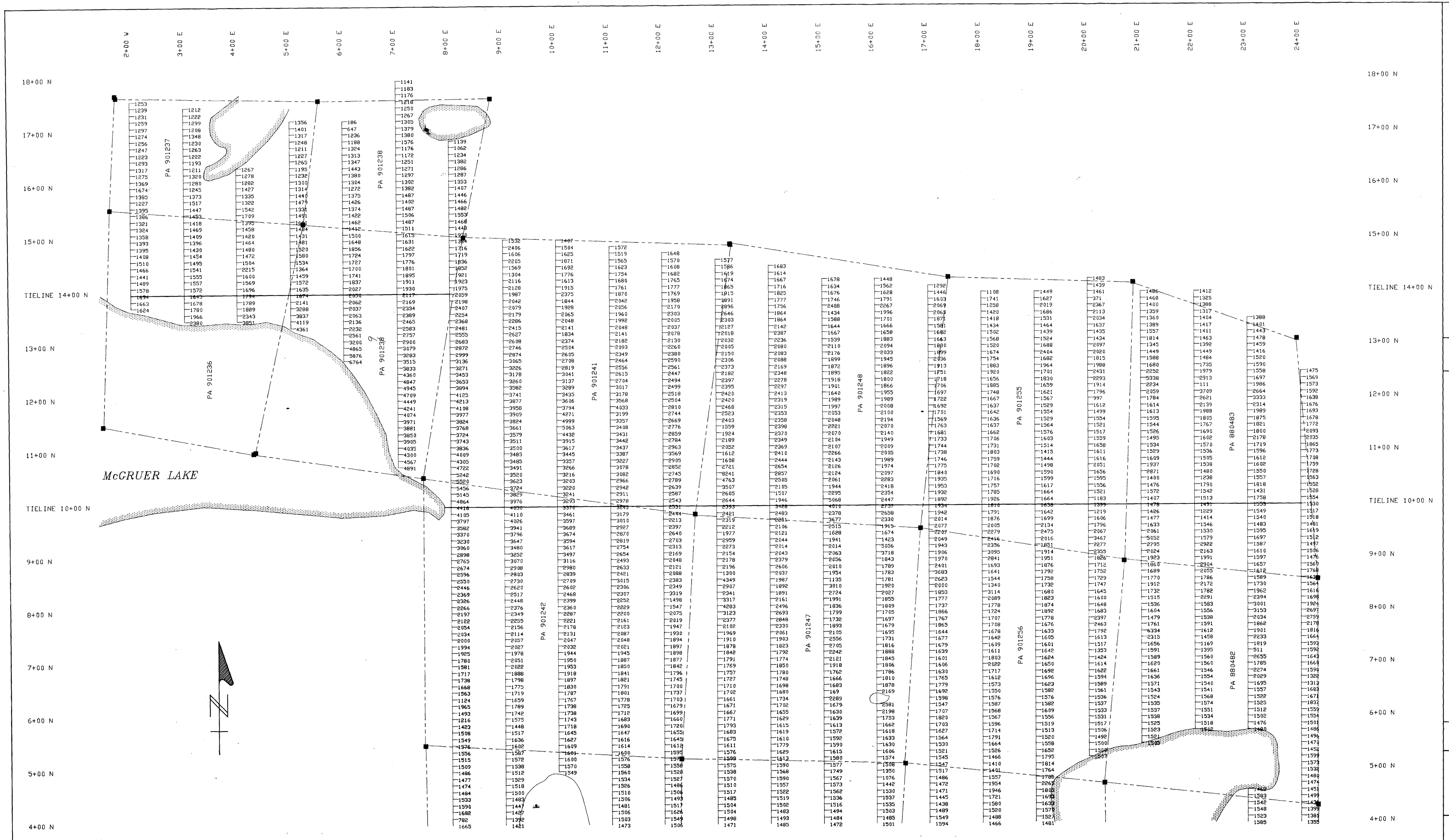
Date FEBRUARY, 1984.

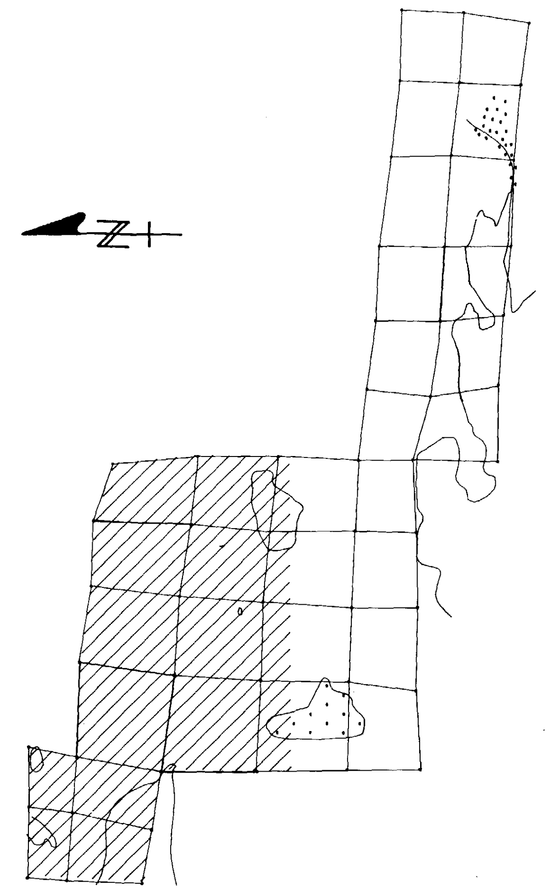
Number G-2029

Bob 53B15NW0004 2.11762 SEESEEP LAKE

210







LOCATION MAP SCALE 1:20,000

LEGEND

TOPOGRAPHY

CLAIM POST

RIVER

STREAM

SWAMP

LAKE SHORE

MAGNETOMETER SURVEY
INSTRUMENT: EDA OMNI IV
DATUM: 59000 GAMMAS
SENSITIVITY: 0.01 GAMMA
CONTOUR INTERVAL: 200 GAMMAS
MAGNETIC LOW:

BASE STATION RECORDER
INSTRUMENT: EDA OMNI IV
RECORDING INTERVAL: 10 SECONDS

2.11[illegible]2

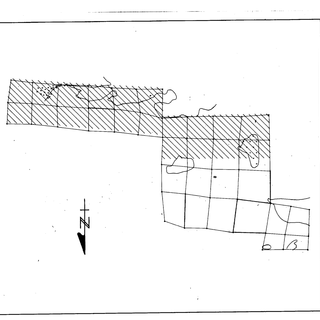
GOLDEN EAGLE RESOURCES INC.

PROTON MAGNETOMETER
READINGS
NORTH SECTION

SCALE BAR 0 50 100 150 200 250 METRES

DATE: AUG 1988 | SCALE: 1:2500 | N,T,S, 53-B-15

PHANTOM EXPLORATION SERVICES LTD.



LOCATION MAP

SCALE 1:20,000

LEGEND

TOPOGRAPHY

CLAIM POST

RIVER

STREAM

SWAMP

LAKE SHORE

MAGNETOMETER SURVEY
INSTRUMENT: EDA OMNI IV
SENSITIVITY: 0.01 GAMMA
TIE-LINE INTERVAL: 200 GAMMAS
MAGNETIC VARIATION 29° W

BASE STATION RECORDER
INSTRUMENT: EDA OMNI IV
RECORDING INTERVAL 10 SECONDS

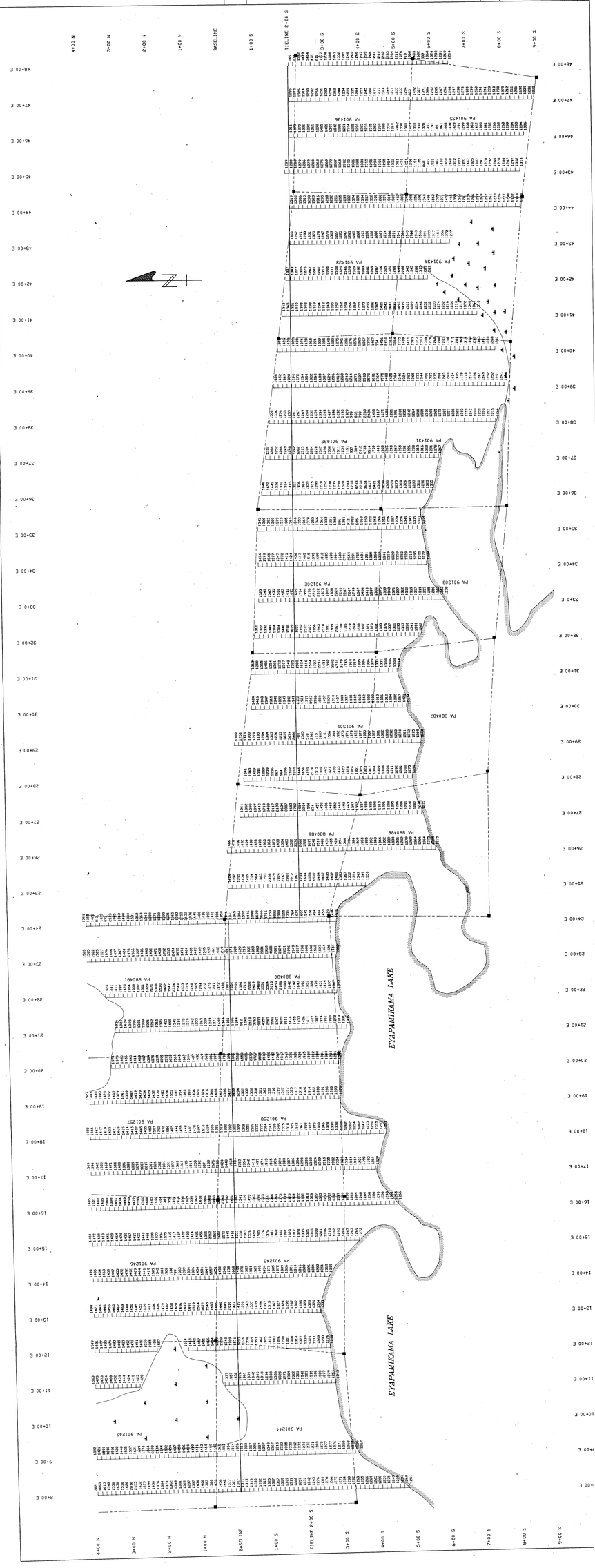
2.11783

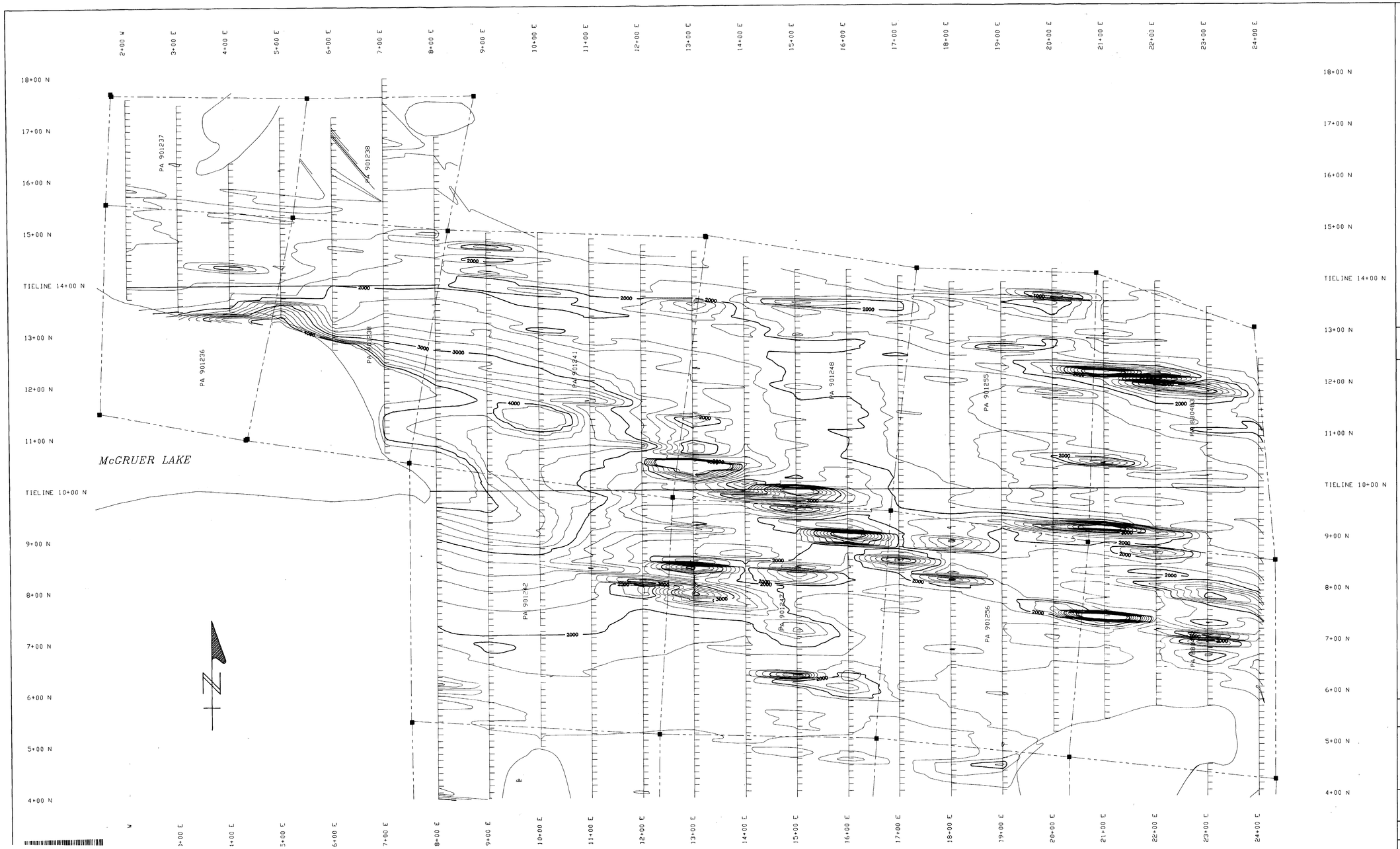
GOLDEN EAGLE RESOURCES INC.

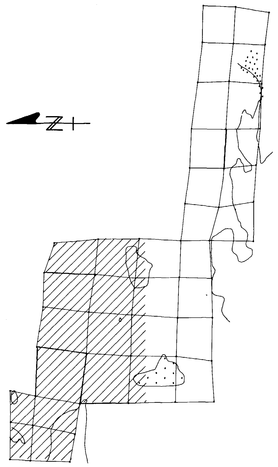
PROTON MAGNETOMETER
READINGS
SOUTH SECTION

DATE: AUG 1988 | SCALE: 1:2500 | N.T.S. 55-B-15

PHANTOM EXPLORATION SERVICES LTD.







LOCATION MAP SCALE 1:20,000

LEGEND

TOPOGRAPHY

- CLAIM POST
- RIVER
- STREAM
- SWAMP
- LAKE SHORE

MAGNETOMETER SURVEY
INSTRUMENT: EDA OMNI IV
DATUM: 59000 GAMMAS
SENSITIVITY: 0.01 GAMMA
CONTOUR INTERVAL: 200 GAMMAS
MAGNETIC LOW:

BASE STATION RECORDER
INSTRUMENT: EDA OMNI IV
RECORDING INTERVAL: 10 SECONDS

GOLDEN EAGLE RESOURCES INC.

PROTON MAGNETOMETER

CONTOURED READINGS
NORTH SECTION

SCALE BAR 0 50 100 150 200 250 METRES

DATE: AUG 1988	SCALE: 1:2500	N,T,S. 53-B-15

PHANTOM EXPLORATION SERVICES LTD.

LOCATION MAP
SCALE 1:20,000
LEGEND
TOPOGRAPHY
CLAIM POST
RIVER
STREAM
SWAMP
LAKE SHORE
MAGNETOMETER SURVEY
GEONICS EM-H4 IV
DATUM: 59000 GAMMAS
CONTOUR INTERVAL: 200 GAMMAS
MAGNETIC NORTH
BASE STATION RECORDER
INSTRUMENT: EDA OMNI IV
RECORDING INTERVAL: 10 SECONDS
2.11.88
GOLDEN EAGLE RESOURCES INC.
PROTON MAGNETOMETER
CONTOURED READINGS
SOUTH SECTION
DATE: AUG 1988
SCALE: 1:2500
N.T.S. 53-B-5
PHANTOM EXPLORATION SERVICES LTD.
EYAPAMIKAMA LAKE
EYAPAMIKAMA LAKE
EYAPAMIKAMA LAKE
BASELINE
TIELINE 2+00 S
4+00 N
3+00 N
2+00 N
1+00 N
1+00 S
3+00 S
4+00 S
5+00 S
6+00 S
7+00 S
8+00 S
9+00 S
48+00 E
47+00 E
46+00 E
45+00 E
44+00 E
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41+00 E
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39+00 E
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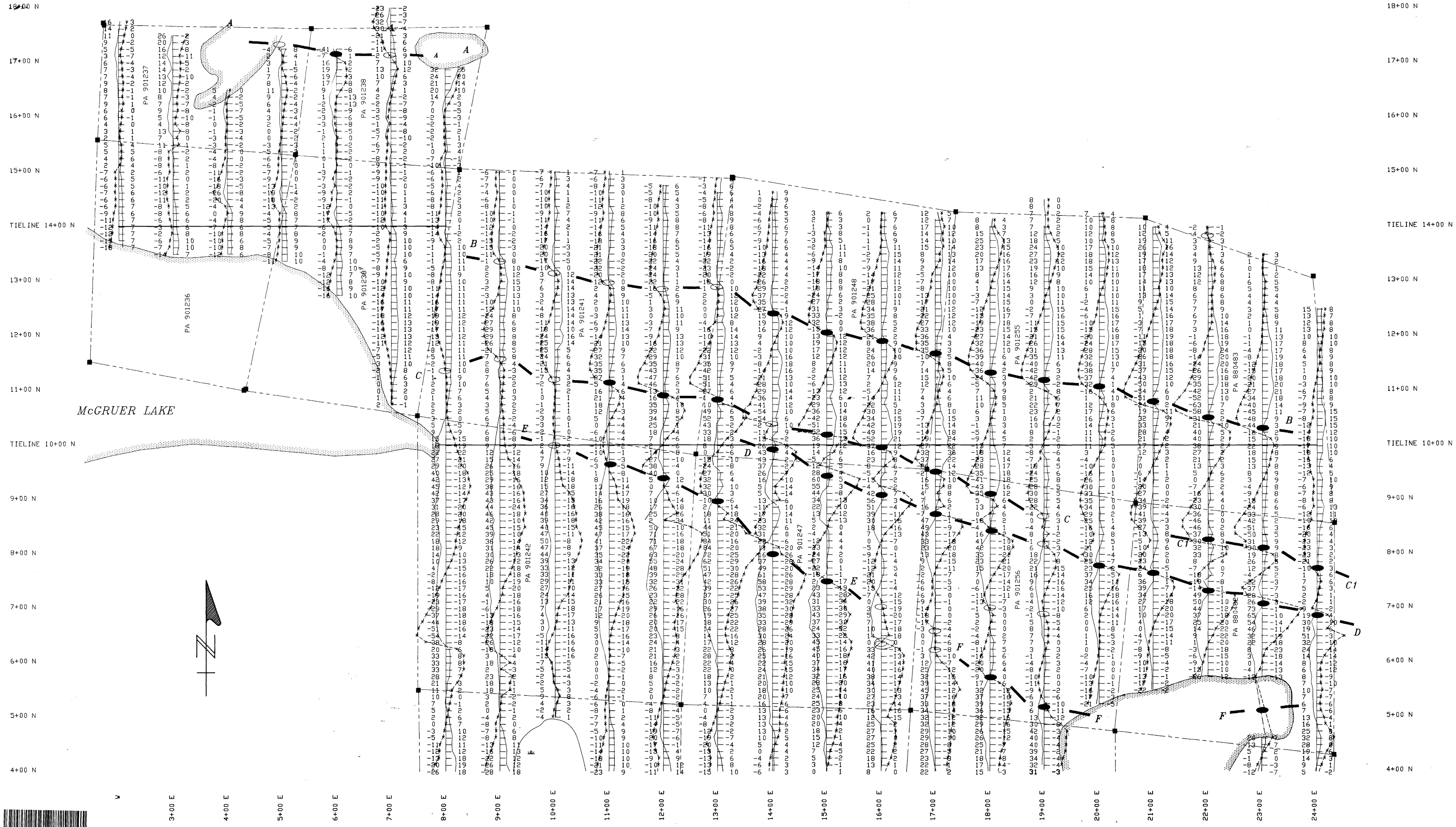
15+00 E
14+00 E
13+00 E
12+00 E
11+00 E
10+00 E
9+00 E
8+00 E
PA 901436
PA 901435
PA 901433
PA 901432
PA 901431
PA 901303
PA 901324
PA 880647
PA 880486
PA 880482
PA 880481
PA 901257
PA 901250
PA 901246
PA 901244
PA 901243



LOCATION MAP SCALE 1:20,000

LEGEND

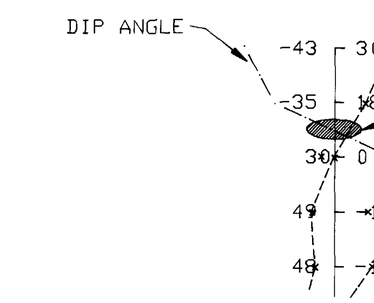
TOPOGRAPHY

- CLAIM POST
- RIVER
- STREAM
- SWAMP
- LAKE SHORE

VLF EM – 16 SURVEY

INSTRUMENT: GEONICS VLF EM-16
TRANSMITTER STATION: CUTLER, MAINE
PROFILE SCALE: 1" = 25 UNITS
OPERATOR FACING NORTH
SENSITIVITY: 0.5% DIP

- CONDUCTOR AXIS (BEDROCK)
- CONDUCTOR AXIS (TOPOGRAPHIC)



2.11

GOLDEN EAGLE RESOURCES INC.

VLF EM–16 SURVEY

PROFILED DATA

NORTH SECTION

SCALE BAR 0 50 100 150 200 250 METRES

DATE: AUG 1988	SCALE: 1:2500	N,T,S, 53-B-15

PHANTOM EXPLORATION SERVICES LTD.

LOCATION MAP
SCALE 1:20,000
LEGEND
TOPOGRAPHY
CLAIM POST
RIVER
STREAM
SWAMP
LAKE SHORE
VLF EM - 16 SURVEY
INSTRUMENT:CRONIMS VLF EM-16
PROFILE: SCALE 1" = 50 METRES
DEPTH: SCALE 1" = 50 METRES
SENSITIVITY: 0.5% DIP
CONDUCTOR AXIS (FERROMAGNETIC)
CONDUCTOR AXIS (TOPOGRAPHIC)
DIP ANGLE
QUADRATURE
CONDUCTOR AXIS
-43
-30
-35
-40
-42
-41
GOLDEN EAGLE RESOURCES INC.
VLF EM-16 SURVEY
PROFILED DATA
SOUTH SECTION
DATE: AUG 1988
SCALE: 1:2500
N.T.S. 53-B-15
PHANTOM EXPLORATION SERVICES LTD.
BASELINE
TIELINE 2+00 S
EYAPAMIKAMA LAKE
PA 901436
PA 901434
PA 901432
PA 901303
PA 880487
PA 901301
PA 880486
PA 880483
PA 880480
PA 880481
PA 901257
PA 901258
PA 901245
PA 901244
PA 901243