



42A06SE0083 2.13302 ELDORADO

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RECEIVED

MAY 14 1990

MINING LANDS SECTION

2.13302

GEOPHYSICAL REPORT
ROUSSEAU - FOURNIER PROPERTY
ELDORADO TOWNSHIP
PORCUPINE MINING DIVISION
TIMMINS, ONTARIO

DATE: APRIL 17, 1990

MAXWELL JUBY, B.SC.

Maxwell Juby

1). PROPERTY HOLDER, NUMBER OF CLAIMS

The property consists of 2 claims (P1034226, P1034231) held jointly by two prospectors of Timmins, Ontario. Mr. George Fournier, 353 Railway Street, and Mr. Robert Rousseau, 178 Birch Street South. The survey area is only a portion of 2 claims of a larger group of 24 claims held by the above prospectors.

2). LOCATION AND ACCESS

The claim group is in the North Central area of Eldorado Township, Porcupine Mining Division. The Red Stone River flows through the North West corner of the 24 claim group. Access is via the gravel road known as the Langmuir Road leading from the town of South Porcupine. Thence, 3 miles south on a good gravel road Nighthawk Timber Road. Finally a bush road leads west to the Red Stone River. This road crosses the survey area on the south boundary. It is approximately 1-1/4 miles to the survey area from the Nighthawk Timber Road.

3). SURVEYOR

Mr. Maxwell Juby c/o Diepdaume Mines Ltd., P.O. Box 1392, Timmins, Ontario, P4N 7N2 was assisted by Mr. Alex Carpenter, Shoal Lake Indian Reserve in conducting^{ing} the geophysical work.

The line cutting was performed by Georgex Ltd. (Mr. George Fournier) 353 Railway Street, Timmins, Ontario. The line cutters were Mr. Mario Pilon and Mr. V. Larche of Timmins Ontario.

4). DATES FOR SURVEY WORK

The line cutting and chaining was done from Feb. 5 to Feb. 15, 1990.

The E.M. survey was done Feb. 17, 18, 1990.

The magnetic survey was done Feb. 19, 29, 1990.

5). GEOLOGY

The area is just south of the Timmins Gold Camp. In Langmuir and Eldorado Townships massive and disseminated deposits of pentlandite, pyrrhotite, millerite, pyrite and minor chalcopyrite occur near the contact between overlying dacitic rocks and underlying ultramafic flows. In some cases they do extend within the ultramafic formation.

On the present survey area we find higher ground with outcrops of ultramafic serpentized rock that have been stripped by bull dozer in two locations; along Line ^{OE} north of the base line and another 25 meters to the east. Disseminations of pentlandite occur here. Assays of 0.04% Ni were obtained by the author. North and East of the trenches the area is covered by overburden. Slightly higher relief occurs to the Northwest. Possibly further outcrops could be located in this vicinity.

6). PREVIOUS WORK

Mercury Investors Ltd., performed a geological survey September 1947 (map scale of 1 inch = 400 ft.) on 14 claims that included the present survey area. Outcrops of serpentine (schisted and altered) were mapped on what is now claim P1034226. Lavas and interbedded sediments were mapped roughly 1200 ft. to the southeast and southwest.

In 1966 Acme Gas and Oil contracted an airborne Mag and E.M. survey over a large area including the present target. A ground magnetic survey also was completed and on what is now claim P1034231; a 600 - 750 ft. wide east-west trending mag high extends across the claim and further east.

The search for nickle and copper in this area was accented by Inco and Mining Corporation in the mid 1960ies. Thereafter 4 deposites, 2 in Langmuir Township and 2 in Eldorado Township were discovered.

The present owners (recorded holder - Mr. George Fournier) stripped two locations in the South Central area as shown on the geophysical maps. This work was done in December 1989. Weakly disseminated pentlandite occurs in a serpentinized dunite. Some 20 rock samples have been taken from these two locations. They varied in nickle content from 0.2% - 1.87% (verbal communication from Mr. Robert Rousseau).

7). RESULTS AND CONCLUSIONS

The altered untramafic rock is expressed by the higher magnetic readings and show an E.S.E. trend with at least a 200 metre width. The very weak E.M. conductor appears to lie near the north contact of the ultrabasic intrusive and within it.

One drill hole collared at Loe/on could be drilled north at an angle of 45° degress to a depth of 250 meters to further assess the nickle potential.

8). INSTRUMENT USED

An apex max-min 11, serial no. 912 with an accuracy of $\frac{1}{2}\%$ was used.

A scintrex proton precission magnetometer model no. 767010, serial no. 8709942 with an accuracy of +1 gamma was used.

9). METHOD

The horizontal loop max-min 11 was used with a horizontal spread of 100 meters and both in phase out of phase readings taken ~~in~~ frequency of 1777KHZ.

The magnetic survey was conducted with the sensor on staff and ~~base~~ ^{L 0+00E 1+00S} used as base station. Readings of the total magnetic field were taken and diurnal corrections made.

10). TOTAL NUMBER OF STATIONS

The total number of stations for the max-min is 229.

The total number of stations for the magnetic survey is 397.

The total length of lines cut was 10,075 meters (6.26 miles) including 3200 meters of base line and tie line. Picket lines were established every 50 meters and the lines picketed every 25 meters. The E.M. was read at 25 meter intervals. Magnetic readings were taken at 25 meter stations, also at 12.5 meter intervals over the main anomalous areas.

DATE: April 17, 1990

SIGNED: Maxwell Juby B.SC.

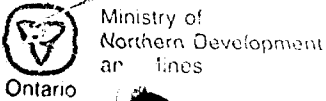
REFERENCE

I Maxwell Juby am a graduate of Mc Gill University, Montreal
P.Q.. I have received a B. Science 1952.

I have spent several years performing Geophysical surveys.

Maxwell Juby
Maxwell Juby

W 9006.60380



DOCUMENT NO. W 9006.6



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900

Mining Act

Report of Work (Geophysical, Geological and Geochemical Surveys)

Mining Lands Section, Mineral Development and Lands Branch

Type of Survey(s) **MAGNETIC; ELECTROMAGNETIC** Mining Division **PORCUPINE** Township or Area **ELDORADO TP.**

Recorded Holder(s) **MR. GEORGE FOURNIER** 2.13302 Prospector's Licence No. **K M 20705**

Address **353 RAILWAY ST., TIMMINS, ONTARIO P4N2P4** Telephone No. **705-267-4576**

Survey Company **MAXWELL JUBY**

Name and Address of Author (of Geo-Technical Report) **MAXWELL JUBY, P.O. BOX 1392 TIMMINS, ONT. P4N7N2** Date of Survey (from & to) **05 02 90 20 02 90**

Credits Requested per Each Claim in Columns at right

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Mining Claim		Mining Claim	
Prefix	Number	Prefix	Number	Prefix	Number
P	1034226				
P	1034231				

RECEIVED

JUN 27 1990

MINING LANDS SECTION

RECORDED

MAY - 8 1990

Total miles flown over claim(s) _____

Date **FEB 17 1990** Recorded/Holder or Agent (Signature) *George Fournier*

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE
JUL 06 1990

Total number of mining claims covered by this report of work **2**

Certification Verifying Report of Work (George Fournier)

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

Name and Address of Person Certifying **MAXWELL JUBY, P.O. BOX 1392 TIMMINS, ONT., P4N7N2**

Telephone No. **705-235-5450** Date **FEB 17 1990** Certified By (Signature) *Maxwell Juby*

For Office Use Only

Total Days Cr. Recorded **120** Date Recorded **MAY 8 90** Mining Recorder *White*

Date Approved as Recorded **4 July 90** Principal Manager Mining Lands *Allova*

Received Stamp
PORCUPINE MINING DIVISION
RECEIVED
MAY 8 1990



2. 13302

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-¹ EM. ² MAG
 Township or Area ELDORADO TP.
 Claim Holder(s) MR. GEORGE FOURNIER P4N 2P4
353 RAILWAY ST., TIMMINS, ONT.
 Survey Company MAXWELL JUBY
 Author of Report MAXWELL JUBY
 Address of Author P.O. BOX 1392, TIMMINS, ONT., P4N 7N2
 Covering Dates of Survey FEB 5 - FEB 20 1990
(linecutting to office)
 Total Miles of Line Cut 10,075 meters = 6.26 MILES

MINING CLAIMS TRAVERSED
List numerically

P 1034226
(prefix) (number)
 P 1034231

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: APRIL 17/90 SIGNATURE: Maxwell Juby
Author of Report or Agent

Res. Geol. _____ Qualifications 63.2415

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 2

If space insufficient, attach list

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations EM-229 MAG. 397 Number of Readings MAG=397 EM: 229 x 2 = 458
Station interval EM-2.5 meters; MAG 25 & 12.5m Line spacing 50 Meter.
Profile scale 1CM = 10%
Contour interval 1000 GAMMA.

MAGNETIC

Instrument SCINTREX PROTON PRECESSION, MODEL NO. 767010, SERIAL NO. 8709942
Accuracy - Scale constant ± 1 GAMMA
Diurnal correction method ONE INST - RETURN TO BASE STN.
Base Station check-in interval (hours) 1 1/4 HOUR
Base Station location and value L 0+00 (meters), 1+00 meters SOUTH.
VALUE = 6034 GAMMAS.

ELECTROMAGNETIC

Instrument APEX, MAX-MIN. 11, SERIAL NO. 912
Coil configuration HORIZONTAL LOOP
Coil separation 100 METERS
Accuracy 1/2 PERCENT
Method: Fixed transmitter Shoot back In line Parallel line
Frequency 1777 KHZ
(specify V.L.F. station)
Parameters measured IN PHASE; OUT OF PHASE - IN PERCENT.

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 _____

Shaw Tp. - M.311

THE TOWNSHIP OF
OF
ELDORADO

DISTRICT OF
TIMISKAMING

PORCUPINE
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

- PATENTED LAND ⊙ or ⊕
- CROWN LAND SALE C.S.
- LEASES ⊙
- LOCATED LAND Loc.
- LICENSE OF OCCUPATION L.O.
- MINING RIGHTS ONLY M.R.O.
- SURFACE RIGHTS ONLY S.R.O.
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKES
- MINES
- CANCELLED
- PATENTED S.R.O.

NOTES

400' Surface Rights Reservation along the shores of all lakes and rivers.

This township lies within the Municipality of CITY of TIMMINS

SAND and GRAVEL

- ⊙ GRAVEL, FILE 182287
- ⊕ GRAVEL, FILE 171588 and FILE 172964

- ⊕ DUCKS UNLIMITED - PENDING APPLICATION UNDER THE PUBLIC LANDS ACT S.R.O. WITHDRAWN
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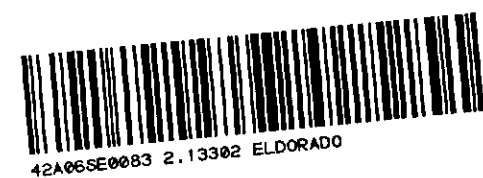
PLAN NO. **M. 276**

MINISTRY OF
NATURAL RESOURCES
ONTARIO

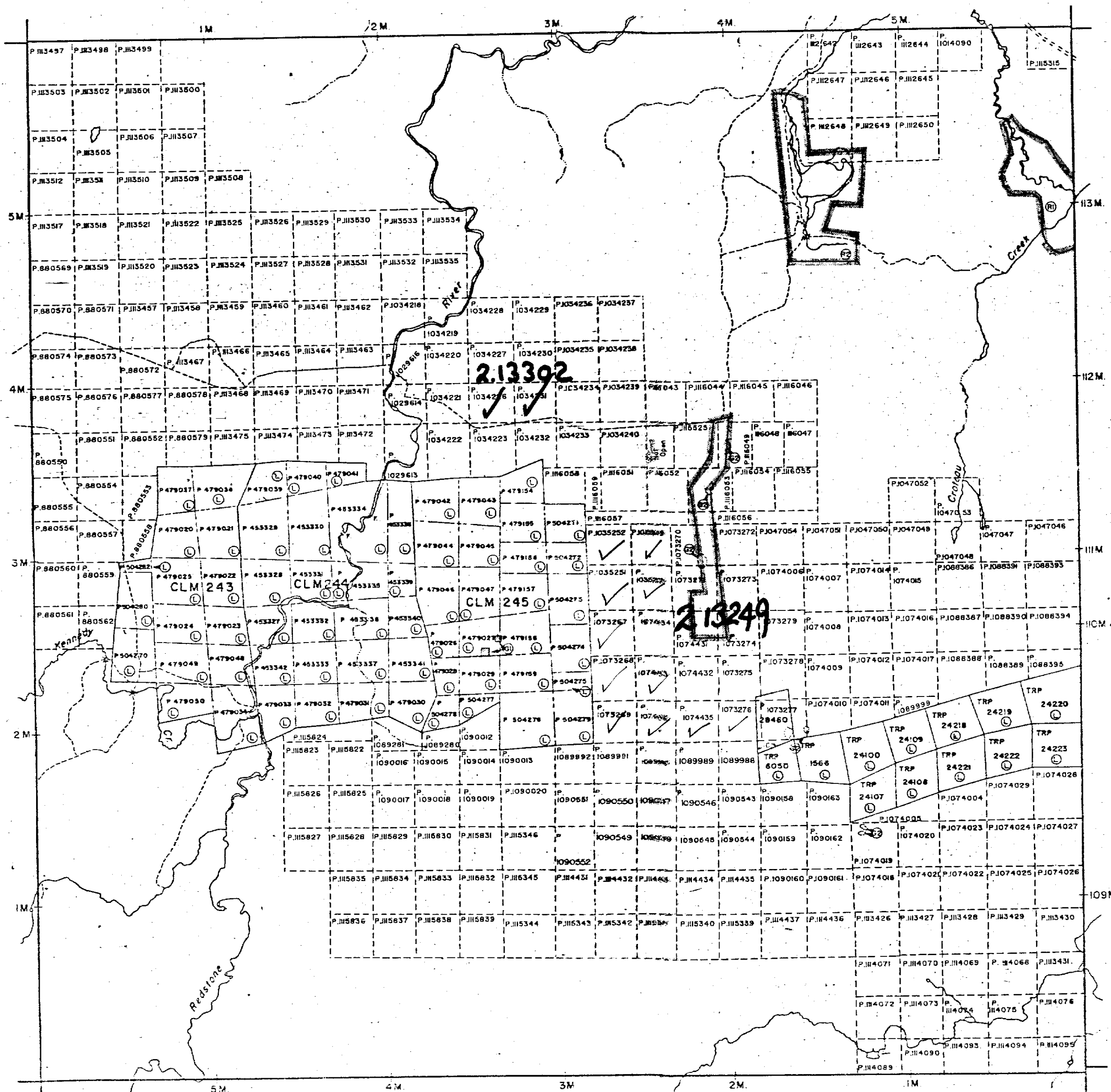
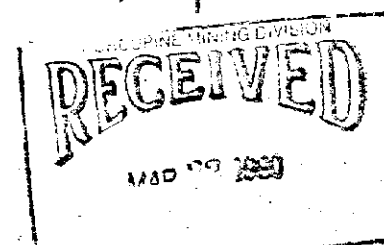
Adams Tp. - M.261

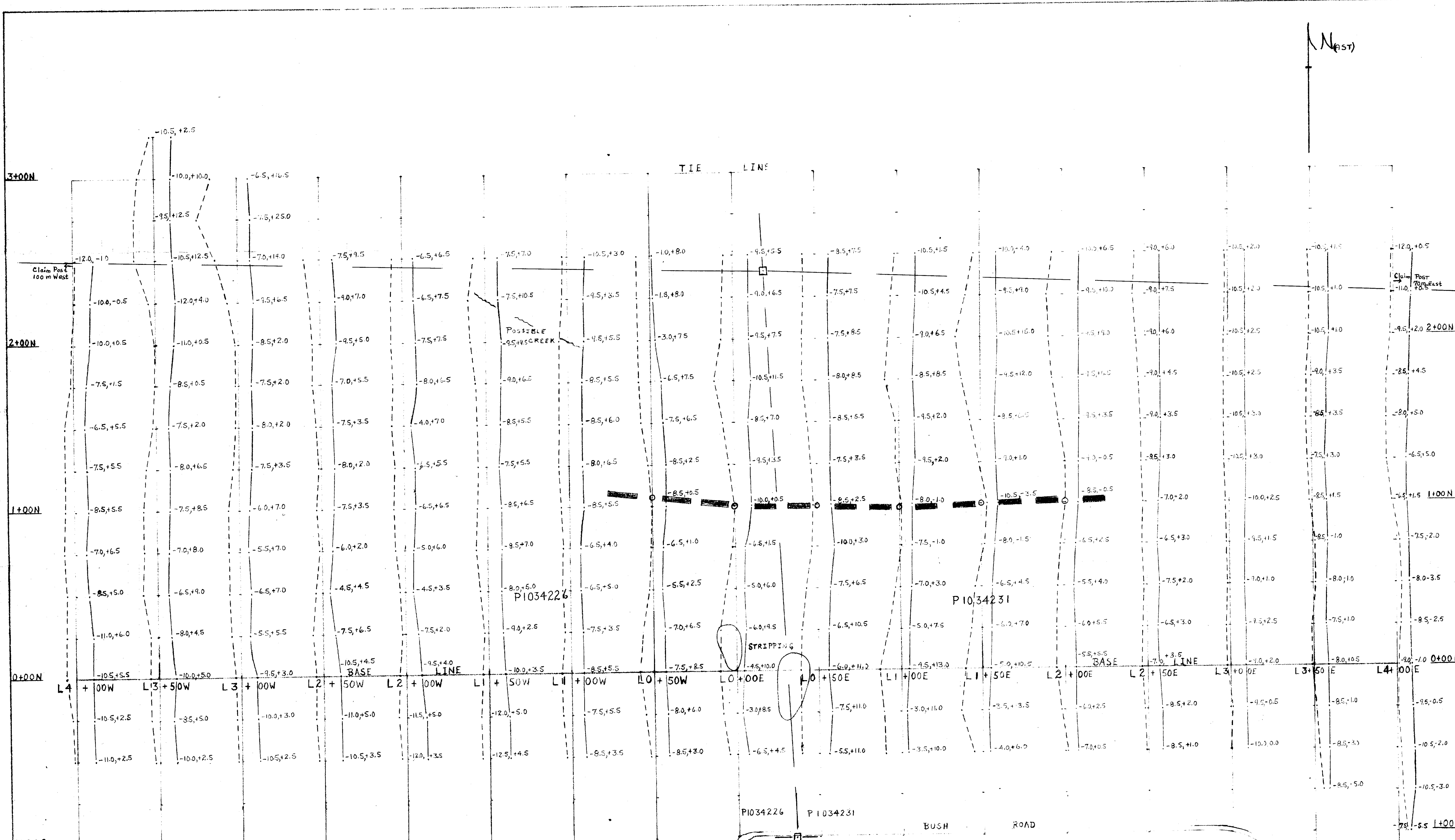
Langmuir Tp. - M.292

Douglas Tp - M.274



200





LEGEND

- 10.0, +5.5 IN PHASE, OUT OF PHASE
- IN PHASE
- - - OUT OF PHASE
- + | - NEGATIVE TO RIGHT
- E.M. CONDUCTOR

FREQUENCY - 1777 KHZ

INSTRUMENT
APEX-MAX. MIN II
SERIAL NO. 912

300 METER COIL SEPERATION

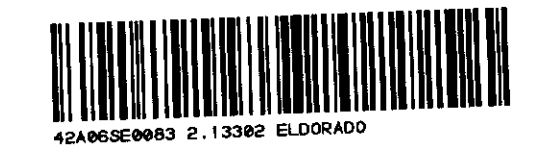
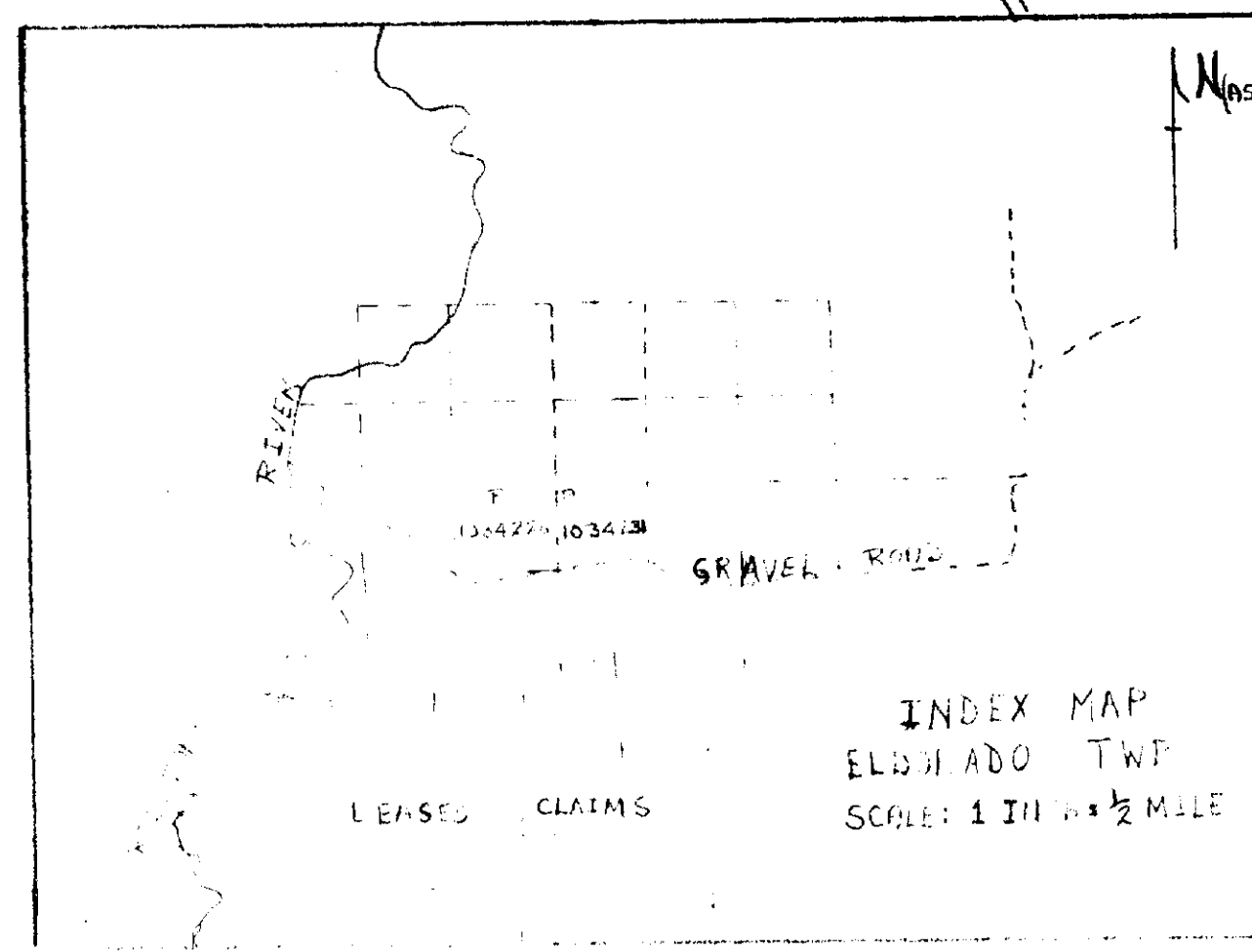
M. JUBY - FEBRUARY 18, 1990
A. CARPENTER

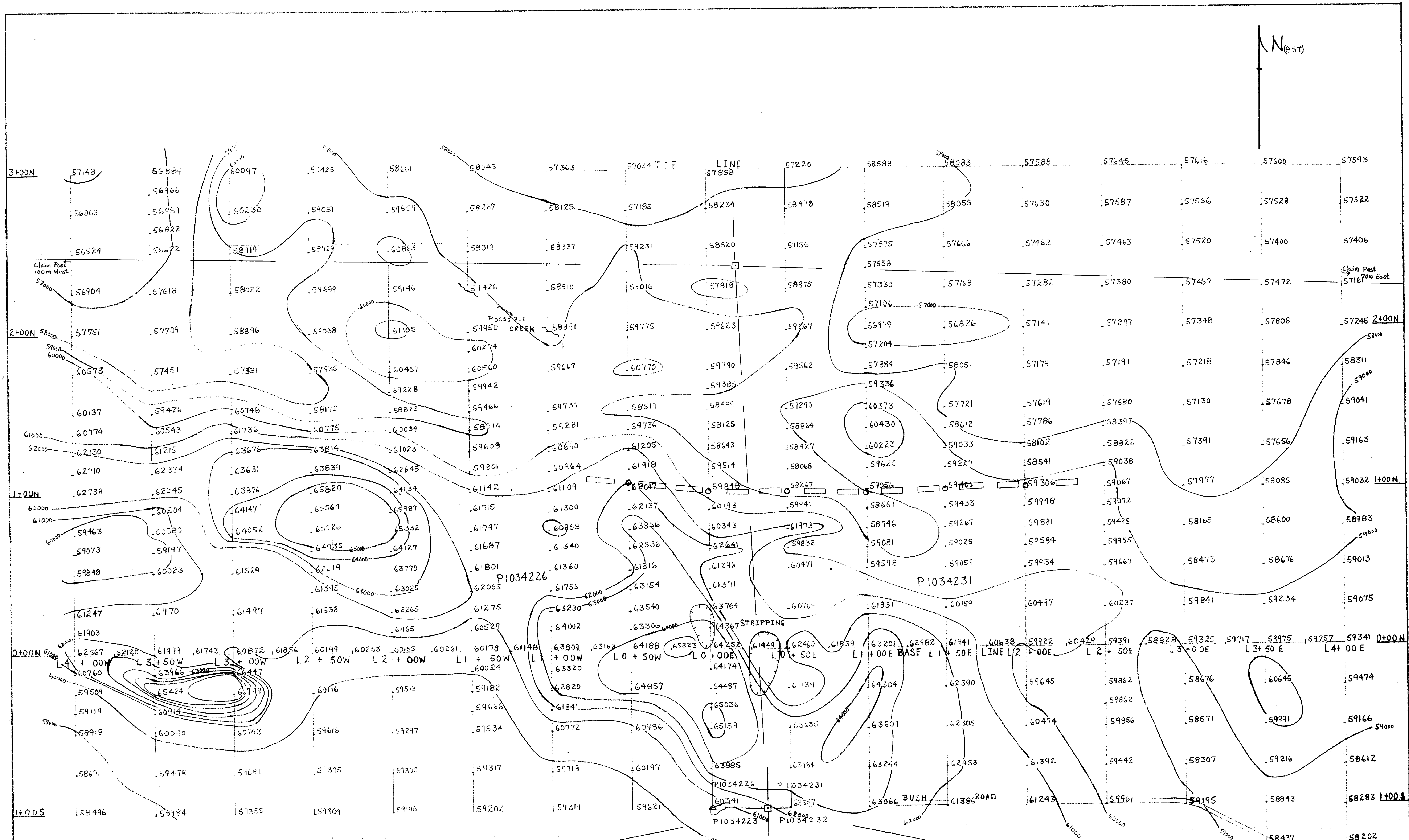
ELECTROMAGNETIC SURVEY

ROUSSEAU - FOURNIER PROPERTY
ELDORADO TOWNSHIP
PORCUPINE MINING DIVISION
ONTARIO

SCALE: 1 CENTIMETER = 10 METERS
10 % RESPONSE

2.13302





LEGEND
 Δ - BASE STATION
 58900 - TOTAL MAGNETIC FIELD - GAMMAS
 CONTOUR INTERVAL - 1000 GAMMAS
 □ ○ - E.M. CONDUCTOR

INSTRUMENT
 SCINTREX-PROTON PRECESSION MAGNETOMETER
 MODEL MP-2-767010
 SERIAL NO. 8709942

MAGNETOMETER SURVEY
 ROUSSEAU - FOURNIER PROPERTY
 ELDORADO TOWNSHIP
 PORCUPINE MINING DIVISION
 ONTARIO
 SCALE: 1 CENTIMETER = 10 METERS

M. JUBY - FEBRUARY 21, 1990

2.13302

