

42A14SW0096 2.11581 REID

010

COMSTATE RESOURCES LTD.

REPORT
ON
GEOPHYSICAL WORK
REID PROPERTY
REID TOWNSHIP

NTS: 42-A/14

PROJ# 6-141

RECEIVED

SEP 6 1988

MINING LANDS SECTION

AUGUST 1988

D. LONDRY
TIMMINS GEOPHYSICS LTD.

SUMMARY AND RECOMMENDATIONS

Horizontal loop EM and magnetic surveys were carried out on Comstate's Reid property during November of 1987 and February of 1988.

The magnetic survey outlined north-northwest striking diabase dikes and west-northwest striking ultramafics. Five HLEM anomalies reflect steeply dipping conductors which represent potential drill targets.

Anomaly 'A' reflects a graphitic horizon with minor pyrrhotite, except between 0 and 450 East where the conductivity is due to pyrite pyrrhotite mineralization. The narrow width of the source is not encouraging for a large, near surface massive sulphide deposit. This zone should be tested below previous drilling on Line 100 East where there is good conductivity and magnetic correlation.

Anomalies 'B' to 'E' reflect graphitic sediments at, or close to, a contact between volcanics to the north and ultramafics to the south; these conductors may also be related to an east-west structure. Mineralized quartz veins intersected in previous drilling were not sampled for gold.



42A14SW0096 2.11581 REID

010C

TABLE OF CONTENTS

	page
SUMMARY AND RECOMMENDATIONS	i
INTRODUCTION	1
PREVIOUS WORK	3
SURVEY DESCRIPTIONS	5
HLEM RESULTS	6
MAGNETIC RESULTS	12
APPENDIX A - TECHNICAL DATA SHEETS	

LIST OF MAPS

1. HLEM RESULTS, 444 Hz, 150 METER CABLE (BACK POCKET)
2. HLEM RESULTS, 1777 HZ, 150 METER CABLE (BACK POCKET)
3. HLEM RESULTS, 3555 HZ, 150 METER CABLE (BACK POCKET)
4. MAGNETIC RESULTS (BACK POCKET)

LIST OF FIGURES

	page
1. LOCATION MAP	2

LIST OF TABLES

	page
1. SUMMARY OF PREVIOUS WORK	3
2. SUMMARY OF CONDUCTORS	7
3. HLEM ANOMALY A INTERPRETATION	8
4. HLEM ANOMALY B INTERPRETATION	9
5. HLEM ANOMALY C INTERPRETATION	10
6. HLEM ANOMALY D INTERPRETATION	11
7. HLEM ANOMALY E INTERPRETATION	11

INTRODUCTION

During November 1987 and February 1988, magnetic and horizontal loop electromagnetic (HLEM) surveys were carried out for Comstate Resources Ltd. on their Reid property.

The property is located approximately 35 kilometres north of the city of Timmins, in the Porcupine Mining Division (Figure 1). It consists of 53 claims, 49 in the northeast corner of Reid Township and 4 which cover the S1/2 Con IV Lot 12, Carnegie Township. The claims are numbered as follows:

P 952096	-	952101	inclusive
P 952106	-	952109	inclusive
p 952113	-	952147	inclusive
P 981685	-	981689	inclusive
P 997441			
P 1026841	-	1026842	inclusive

A power line from the Lower Sturgeon Dam, four kilometers to the north on the Mattagami River, runs north-south through the middle of the property. A road along the power line can be accessed from the Abitibi Lumber Camp 40 road, which can be accessed from Highway 655.

The field crew included B. Pigeon, K. Cybulski and J. DerWeduwen.

PREVIOUS WORK

Since 1964 a number of companies have filed geophysical assessment work on parts of the Reid property (Table 1).

Texmore Mines Limited carried out magnetic and Vertical Loop EM (VLEM) surveys over the east half of the property in 1964. It was recommended to test conductive zones by diamond drilling, however, no drill results were filed. In the same year, Canadian Javelin Limited also ran magnetic and VLEM surveys over the west half of the property, as a followup to

YEAR	COMPANY	GEOPHYSICS	DRILL HOLES	ASSESSMENT FILE
1980	ROSARIO RESOURCES CANADA LTD.	MAG, HLEM		T-2336
1979	GULF MINERALS CANADA LTD.	MAG	R-80-D-3 TO 13	T-1929
1974	NEWMONT MINING CORP.	MAG, IP	R-75-8	T-40
1972	MATTAGAMI LAKE MINES LIMITED	ABM, MAG	T-A2-72-1 TO 3	T-470
1967	INTERNATIONAL NICKEL CO. OF CAN. LTD.	NONE FILED	32911, 32912	T-1350
1964	CANADIAN JAVELIN LIMITED	MAG, VLEM	H-1/1	T-935
1964	TEXMORE MINES LIMITED	MAG, VLEM		T-1011
1964	B. ABBL	MAG, JEM		T-1098

TABLE 1: Summary of Previous Work

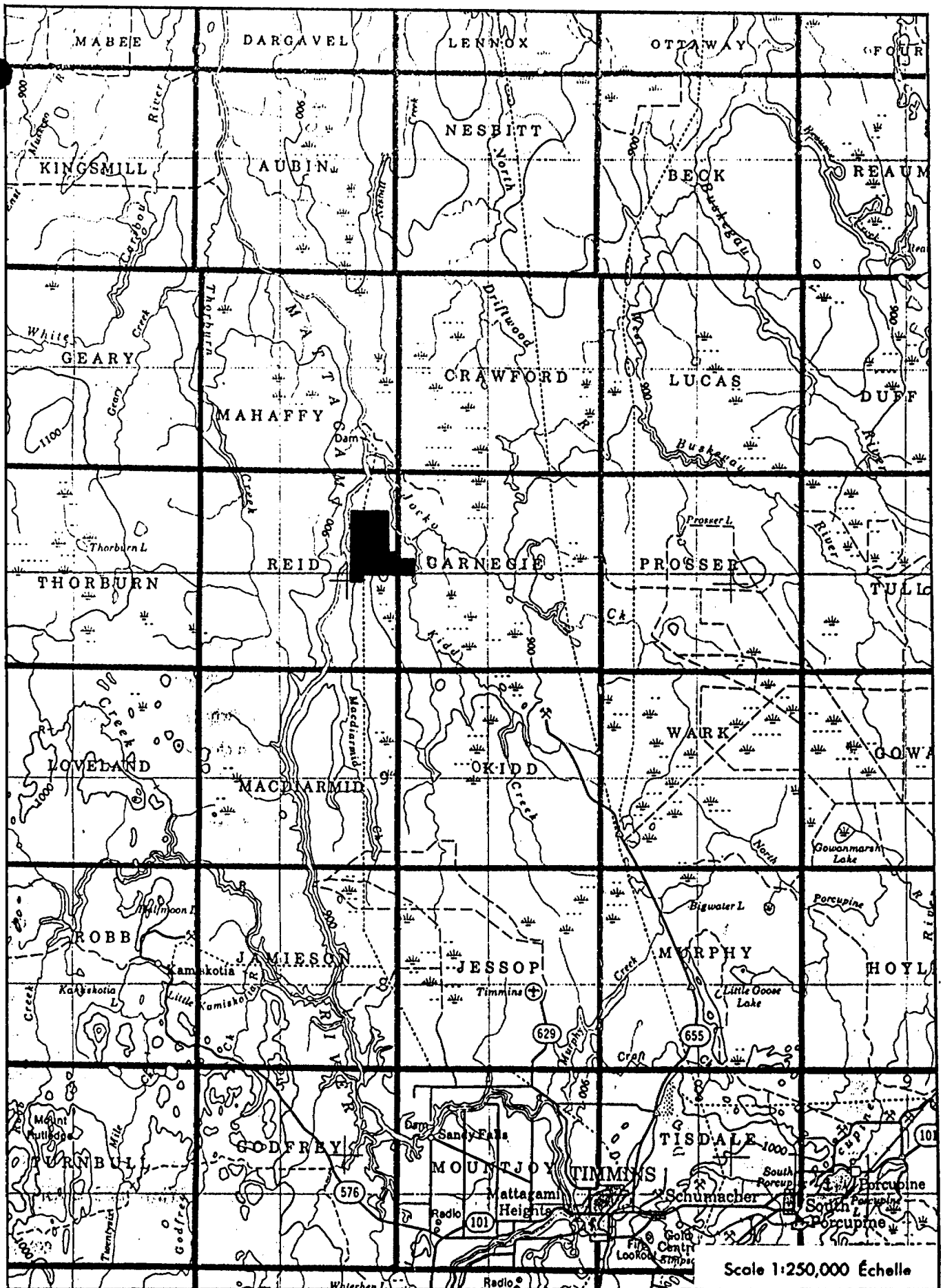


Figure 1: Location map

an airborne magnetic and EM survey. Hole H-1/1 was drilled just to the west of the present grid, on strike with conductor 'C'; it intersected a number of pyritic graphite zones.

In 1964 magnetic and EM surveys were also run on the E. Abel property which covered the four claims in Carnegie Township. It was recommended that three drill holes test a west-northwest striking conductor outlined in the EM survey.

International Nickel Co. of Canada Ltd. drilled two holes on the property in 1967. Hole 32912 intersected graphite within acidic volcanics and Hole 32911 intersected graphite within intermediate volcanics. The exact location of these holes is difficult to determine, however, from the distance between them, it appears as though they tested conductors 'A' and 'B' respectively.

Mattagami Lake Mines Limited filed an airborne Input survey flown by Questor in 1970 and also four holes drilled in 1972. Holes A2-72-1 and A2-72-3 were both drilled to test conductor 'C' and intersected graphitic sediments with up to 3% pyrite. Hole A2-72-2, drilled to test conductor 'B', intersected graphitic sediments with narrow bands of massive pyrite and pyrrhotite. The target of Hole T-CL-72-1 was the source of anomaly 'D'. It intersected a graphitic unit between rhyolites to the north and peridotite to the south.

In 1974 Newmont Mining Corp. carried out magnetic and Induced Polarization (IP) surveys; a gradient array was used in the IP survey. An east-west striking resistivity and

chargeability anomaly coincides with EM anomalies 'B' and 'C'. Hole R-75-8, drilled to test this anomaly, intersected peridotite.

In 1979 and 1980 Gulf Minerals Ltd. carried out an exploration program in the area which included overburden drilling, an airborne magnetic and EM survey, ground magnetic and EM surveys and diamond drilling. Three holes, R-80-D-3, R-80-D-4 and R-80-D-6, were drilled to test conductor 'A'. Hole R-80-D-11 was drilled to test conductor 'B' and R-80-D-13 tested conductor 'C'.

In 1980 Rosario carried out magnetic and horizontal loop EM surveys over the four claims in Carnegie Township. Recommendations were made to test two west-northwest striking conductors which are on strike with conductors 'D' and 'E'.

SURVEY DESCRIPTIONS

In 1987 an east-west baseline was established at 0 North; north-south grid lines were cut every 100 metres from 800 North to 1200 South between 700 West and 1200 East. Detail lines, spaced every 50 meters, were also cut from 100 North to 600 South between 0 and 500 East. Tie lines were cut at 800 North, 600 South and 1200 South. In 1988 the lines were extended to the south from Tie Line 1200 South.

The horizontal loop EM survey was carried out with the Apex Parametrics Max Min I. This instrument measures the

inphase and quadrature components of the secondary field as a percentage of the primary field. Readings were taken every 25 metres using a coil separation of 150 metres and frequencies of 444, 1777 and 3555 Hz.

The magnetic readings were taken with a Scintrex IGS-2/MP-4. This instrument is a proton precession magnetometer which measures the earth's total magnetic field to an accuracy of .1 gammas. The diurnal drift was monitored every 30 seconds with a Scintrex MP-3 base station magnetometer.

HLEM RESULTS

The horizontal loop results are plotted on maps 1, 2 and 3 at a scale of 1:2500. The profile scale on the 444 and 1777 Hz results is 1cm=20% and the scale on the 3555 Hz results is 1cm=40%. Five bedrock conductors, labelled 'A' to 'E' on the maps, were detected in the survey. A summary of previous work carried out over each of these zones is given in Table 2.

A conductive overburden layer on the property causes an inversion of the quadrature component over the conductors. The parameters in Tables 3 to 7 were calculated using the lowest frequency, where the inversion is least pronounced. Even at 444 Hz, however, the depth and conductivity thickness

CONDUCTOR	COMPANY, YEAR	SURVEYS	CONDUCTIVITY	DRILL HOLE	SOURCE	ASSESSMENT FILE
A	GULF MINERALS, 1979	MAG, BM		R-80-D-4	GRAPHITE	T-1929
	NEWMONT, 1974	IP	POOR	R-80-D-6	SULPHIDES	T-40
	MATTAGAMI LAKE, 1970	ABM	TO			T-470
	INCO, 1967		VERY	32912	GRAPHITE	T-1350
	CANADIAN JAVBLIN, 1964	VLEM	GOOD			T-935
	TEXORB, 1964	VLEM				T-1011
B	GULF MINERALS, 1979	MAG, BM		R-80-D-11	GRAPHITE	T-1929
	NEWMONT, 1974	IP	POOR			T-40
	MATTAGAMI LAKE, 1970	ABM	TO	T-A2-72-2	GRAPHITE	T-470
	INCO, 1967		GOOD	32911	GRAPHITE	T-1350
	CANADIAN JAVBLIN, 1964	VLEM				T-935
	TEXORB, 1964	VLEM				T-1011
C	GULF MINERALS, 1979			R-80-D-9	?	T-1929
	NEWMONT, 1974	IP	GOOD			T-40
	MATTAGAMI LAKE, 1970	ABM	TO	T-A2-72-1,3	GRAPHITE	T-470
	INCO, 1967		VERY			T-1350
	CANADIAN JAVBLIN, 1964	VLEM	GOOD	H-1/1	GRAPHITE	T-935
	TEXORB, 1964	VLEM				T-1011
D	ROSARIO, 1980	MAG, HLEM				T-2336
	NEWMONT, 1974	IP	VERY			T-40
	MATTAGAMI LAKE, 1970	ABM	GOOD	T-CL-72-1	GRAPHITE	T-470
	E. ABEL, 1964	MAG, JEM				T-1098
E	ROSARIO, 1980	MAG, HLEM				T-2336
	NEWMONT, 1974	IP	GOOD			T-40
	MATTAGAMI LAKE, 1970	ABM				T-470
	E. ABEL, 1964	MAG, JEM				T-1098

TABLE 2: Summary of Conductors

calculations may be higher than the true values. The power line along Line 0 is responsible for the slightly noisier readings and higher background in the results along that line.

Anomaly A reflects a narrow conductor which strikes west-northwest through the middle of the property. The conductivity of the source decreases and the depth increases as you move east and west from 200 East; the dip is near vertical (Table 3). The EM anomaly coincides with a magnetic anomaly which is highest between 0 and 450 East. Previous drilling has shown that Anomaly 'A' reflects a graphitic horizon with minor pyrrhotite except between 0 and 450 East where the conductivity is due to pyrite pyrrhotite mineralization. Traces of chalcopyrite were noted in the

LINE	ANOMALY CENTER	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
600 W	150 N	NARROW	-3	-2	90	28	VERTICAL
500 W	100 N	NARROW	-2	-2	72	13	VERTICAL
400 W	65 N	12	-7	-4	75	38	VERTICAL
300 W	10 N	NARROW	-7	-4	75	38	VERTICAL
200 W	44 S	12	-5	-4	71	19	VERTICAL
100 W	100 S	NARROW	-2	-3	45	4	VERTICAL
0 W	150 S	NARROW	-1	-2	30	3	VERTICAL
50 E	175 S	NARROW	-7	-4	75	38	STEEP S DIP
100 E	205 S	6	-19	-6	47	95	STEEP S DIP
150 E	230 S	NARROW	-27	-7	36	113	STEEP S DIP
200 E	255 S	NARROW	-25	-6	39	121	VERTICAL
250 E	275 S	NARROW	-25	-7	38	104	VERTICAL
300 E	307 S	5	-22	-7	41	93	STEEP N DIP
350 E	345 S	7	-16	-5	53	95	STEEP N DIP
400 E	370 S	NARROW	-10	-4	69	70	STEEP N DIP
450 E	400 S	NARROW	-5	-2	87	70	STEEP N DIP
600 E	487 S	NARROW	-2	-1	90	47	VERTICAL
700 E	565 S	17	-4	-4	60	9	VERTICAL
900 E	612 S	25	-3	-3	65	9	VERTICAL
1000 E	700 S	25	-2	-3	45	4	VERTICAL

Table 3: HLEM Anomaly A, 444 Hz, 150 m coil separation.

logs from Holes R-80-D-3 and R-80-D-6, drilled by Gulf Minerals. On the east side of the property the conductor is slightly offset where two north-south diabase dikes cut the zone.

Anomaly 'B' strikes west-northwest between 300 East and 300 West. It reflects a 20 metre wide conductor approximately 35 metres below surface which dips steeply to the north (Table 4). The conductivity of the zone is poor to good.

LINE	ANOMALY CENTER	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
200 W	635 S	?	?	?			INTREFFERENCE FROM 'C'
100 W	685 S	?	?	?			INTREFFERENCE FROM 'C'
0 W	719 S	?	?	?			INTREFFERENCE FROM 'C'
100 E	755 S	17	-12	-9	45	22	STEEP N DIP
200 E	812 S	16	-13	-12	34	17	STEEP N DIP
300 E	837 S	25	-6	-9	32	8	STEEP N DIP

Table 4: HLEM Anomaly B, 444 Hz, 150 m coil separation.

Anomaly 'C' is located between 0 East and the west edge of the property. It reflects a narrower conductor at a greater depth than 'B'; the dip is steep to the south and the conductivity is good to very good (Table 5). There does not appear to be any lateral movement along a diabase dike which cuts the conductor on the west side of the property.

Between 300 West and 200 East anomalies 'B' and 'C' are 100 metres apart which makes width and dip values difficult

to calculate. Both conductors are located within an area of an anomalously low magnetic field; previous drilling has determined that the source of these anomalies is pyritic graphite. Hole R-80-D-11, drilled by Gulf Minerals in 1980

LINE	ANOMALY CENTER	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
700 W	612 S	7	-8	-3	78	76	VERTICAL
600 W	631 S	4	-13	-5	57	72	VERTICAL
500 W	637 S	8	-10	-7	56	25	STEEP S DIP
400 W	655 S	10	-13	-5	57	72	STEEP S DIP
300 W	684 S	18	-15	-4	57	113	STEEP S DIP
200 W	733 S	?	-17	-4	54	123	INTERFERENCE FROM 'B'
100 W	783 S	?	-17	-4	54	123	INTERFERENCE FROM 'B'
0 W	820 S	?	-10	-4	65	47	INTERFERENCE FROM 'B'

Table 5: HLEM Anomaly C, 444 Hz, 150 m coil separation.

to test anomaly 'B' intersected a four foot wide mineralized quartz vein within the graphitic zone; it does not appear to have been sampled.

Anomalies 'D' and 'E' are located to the east and on strike with anomalies 'B' and 'C'. Anomaly 'D' reflects a very good conductor up to 30 metres wide at a depth of 60 to 80 metres (Table 6). Anomaly 'E' reflects a narrow conductor between 1100 and 1500 East, approximately 200 metres south of conductor 'D'. The conductivity of this zone decreases from west to east (Table 7). The dip of these two zones is difficult to determine because of the short distance between them.

LINE	ANOMALY CENTER	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
1100 W	1270 S	10	-8	-5	66	28	INTERFERENCE FROM 'B'
1200 W	1335 S	NARROW	-8	-2	80	98	INTERFERENCE FROM 'B'
1300 W	1375 S	NARROW	-10	-2	74	132	INTERFERENCE FROM 'B'
1400 W	1400 S	NARROW	-12	-3	68	113	INTERFERENCE FROM 'B'
1500 W	1440 S	5	-14	-4	60	98	INTERFERENCE FROM 'B'
1600 W	1520 S	10	-14	-2	65	151	N DIP

Table 6: HLEM Anomaly D, 444 Hz, 150 m coil separation.

LINE	ANOMALY CENTER	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
1100 W	1460 S	NARROW	-3	-2	90	28	INTERFERENCE FROM 'D'
1200 W	1575 S	NARROW	-4	-3	77	21	INTERFERENCE FROM 'D'
1300 W	1600 S	NARROW	-4	-3	77	21	INTERFERENCE FROM 'D'
1400 W	1605 S	NARROW	-5	-5	56	9	INTERFERENCE FROM 'D'
1500 W	1640 S	NARROW	-2	-3	47	4	INTERFERENCE FROM 'D'

Table 7: HLEM Anomaly E, 444 Hz, 150 m coil separation.

The source of the other weak anomalies outlined, but not labelled, on the high frequency results have very poor conductivities and are likely surficial.

MAGNETIC RESULTS

The magnetic results are plotted on map 3 at a scale of 1:2500.

North-northwest striking diabase dikes, labelled 'DD' on the magnetic map, are reflected by linear magnetic anomalies up to 700 gammas above background. Offsets or changes in strike of these features suggest the presence of a major west-northwest striking fault zone. Conductors 'B' and 'D' are located along the north edge of this break in the dikes and conductors 'C' and 'E' are located along the south edge.

Previous drilling suggests that the discontinuous west-northwest striking magnetic high anomalies to the south of the break, described in the previous paragraph, reflect ultramafics. Magnetic lows along these trends, such as on Lines 200 and 300 East, may reflect alteration.

As mentioned in the previous section, the magnetic anomaly associated with conductor 'A' reflects pyrrhotite mineralization.


DOUGLAS LONDRY
TIMMINS GEOPHYSICS LTD.

APPENDIX A



Ontario

Ministry of Northern Development and Mines

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 Reid / Carnegie
Claim Holder(s) Comstate Resources Ltd.
Siute 901, 1015 4th St. SW Calgary, Alberta
Survey Company Timmins Geophysics
Author of Report Douglas Londry
Address of Author P.O. Box 1783 South Porcupine, Ontario
Covering Dates of Survey Oct. 1, 1987 to Aug. 31, 1988
Total Miles of Line Cut 81.7 km

MINING CLAIMS TRAVERSED
List numerically

see Schedule A
(prefix) (number)

SPECIAL PROVISIONS
CREDITS REQUESTED

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

ENTER 20 days for each additional survey using same grid.

Table with columns: Geophysical, DAYS per claim. Rows: -Electromagnetic (20), -Magnetometer (40), -Radiometric, -Other, Geological, Geochemical.

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

Magnetometer Electromagnetic Radiometric
(enter days per claim)

DATE: Aug. 31, 1988 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. Qualifications

Previous Surveys

Table with columns: File No., Type, Date, Claim Holder. Multiple rows for listing previous surveys.

TOTAL CLAIMS 53

If space insufficient, attach list

OFFICE USE ONLY

Schedule A

P 952096	P 952130
P 952097	P 952131
P 952098	P 952132
P 952099	P 952133
P 952100	P 952134
P 952101	P 952135
P 952106	P 952136
P 952107	P 952137
P 952108	P 952138
P 952109	P 952139
P 952113	P 952140
P 952114	P 952141
P 952115	P 952142
P 952116	P 952143
P 952117	P 952144
P 952118	P 952145
P 952119	P 952146
P 952120	P 952147
P 952121	P 981685
P 952122	P 981686
P 952123	P 981687
P 952124	P 981688
P 952125	P 981689
P 952126	P 997441
P 952127	P 1026841
P 952128	P 1026842
P 952129	

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 3198 Number of Readings HLEM 1830 mag 4422
Station interval 25 metres Line spacing 100 metres
Profile scale HL: 1 cm = 20%
Contour interval mag: 50 gammas

MAGNETIC

Instrument Scintrex IGS-2/MP-4
Accuracy - Scale constant 0.1 gammas
Diurnal correction method base station
Base Station check-in interval (hours) 30 seconds
Base Station location and value 1200 South, 50 East
58795 gammas

ELECTROMAGNETIC

Instrument Apex Parametrics MaxMin I
Coil configuration horizontal loop
Coil separation 150 metres
Accuracy +/-1%
Method: [] Fixed transmitter [] Shoot back [x] In line [] Parallel line
Frequency 444, 1777, 3555 Hz (specify V.L.F. station)
Parameters measured in-phase and quadrature components of the secondary field
measured as a percent of the primary field

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

DOCUMENT

W8806



300

W8806-2252.115

Type of Survey(s) **Geophysical (MAC & MAX-MIN)** Township or Area **Field**

Claim Holder(s) **COMSTATE RESOURCES LTD** Prospector's Licence No. **T-1127**

Address **P.O. Box 1142 Timmins P4N 7H9**

Survey Company **Timmins Geophysical** Date of Survey (from & to) **15 " 87 31 " 87** Total Miles of line Cut **7 miles**

Name and Address of Author (of Geo-Technical report) **Douglas Londry, Timmins Geophysical, South Porcupine**

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

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

Prefix	Mining Claim		Expend. Days Cr.	Prefix	Mining Claim		Expend. Days Cr.
	Number				Number		
P	981685						
	981686						
	981687						
	981688						
	981689						
	997441						

RECEIVED
AUG 15 1988
MINING LANDS SECTION

RECORDED
JUL 06 1988

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures $\$$ ÷ 15 = JUL 6 1988

Total number of mining claims covered by this report of work. **6**

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. Date Recorded **360 JULY 6, 1988**

Date Approved as Recorded **28 Nov 88**

Mining Recorder **[Signature]**

Branch Director **[Signature]**

Date **July 6/88** Recorder/Author or Agent Signature **[Signature]**

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 **D. R. Pyle P.O. Box 1142 Timmins Ont**

Date Certified **July 6/88** Certified by (Signature) **[Signature]**

DOCUMENT No.

W 8806-50112

- Instructions: - Please type or print.
- If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

2-11581

Mining Act

Name of Survey(s): **Geophysical** Township or Area: **Reid / Carnegie**
 Claim Holder(s): **Comstate Resources Ltd.** Prospector's Licence No.: **T-1127**
 Address: **Suite 901, 1015 4th St. SW Calgary, Alberta T2R 1J4**
 Survey Company: **Timmins Geophysics Ltd.** Date of Survey (from & to): **27 Day 11 Mo. 87** to **28 Day 2 Mo. 88** Total Miles of line Cut: **81.7**
 Name and Address of Author (of Geo-Technical report): **D. Londry P.O. Box 1783, 111 Bruce Ave., South Porcupine, Ontario. P4N 1H0**

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

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

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
P	952096		P	952127	
	952097			952128	
	952098			952129	
	952099			952130	
	952100			952131	
	952101			952132	
	952106			952133	
	952107			952134	
	952108			952135	
	952109			952136	
	952113			952137	
	952114			952138	
	952115			952139	
	952116			952140	
	952117			952141	
	952118			952142	
	952119			952143	
	952120			952144	
	952121			952145	
	952122			952146	
	952123			952147	
	952124			1026841	
	952125			1026842	
	952126				

Expenditures (excluding...)
 Performed on Claim(s): **SEP 9 1988 @ 9:45 am**

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.

Recorded Holder of Agent (Signature): **Douglas Londry**
 Date: **AUG. 30/88**

For Office Use Only
 Total Days Cr. Recorded: **2820** Date Recorded: **Sept 9/88** Mining Recorder: **[Signature]**
 Date Approved as Recorded: **See reverse statement** Branch Director: **[Signature]**

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 and witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: **DOUGLAS J. LONDRY, P.O. BOX 1783, SOUTH PORCUPINE, ONT. P4N 1H0**
 Date Certified: **AUG. 30/88** Certified by (Signature): **[Signature]**

Recorded Holder
 Comstate Resources

Township ~~XXXXXX~~
 Reid/Carnegie

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic <u>20</u> days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	P 952100-101 952121 952127 to 144 1026841-842

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

<u>10 days Electromagnetic</u> P 952145 to 147 inclusive	<u>5 days Electromagnetic</u> P 952098-099
---	---

No credits have been allowed for the following mining claims

not sufficiently covered by the survey
 insufficient technical data filed

P 952096-097
 952106 to 109 inclusive
 952113 to 120 inclusive
 952122 to 126 inclusive

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.



Recorded Holder
Comstate Resources Ltd.

Township of ~~XXXX~~
Reid/Carnegie

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<p>Geophysical</p> <p>Electromagnetic _____ days</p> <p style="padding-left: 100px;">40</p> <p>Magnetometer _____ days</p> <p>Radiometric _____ days</p> <p>Induced polarization _____ days</p> <p>Other _____ days</p> <p>Section 77 (19) See "Mining Claims Assessed" column</p> <p>Geological _____ days</p> <p>Geochemical _____ days</p> <p>Man days <input type="checkbox"/> Airborne <input type="checkbox"/></p> <p>Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/></p> <p><input type="checkbox"/> Credits have been reduced because of partial coverage of claims.</p> <p><input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.</p>	<p>P 952096 to 101 inclusive 952106 to 109 inclusive 952113 to 147 inclusive 1026841-842</p>

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

[Empty box for special credits]

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

[Empty box for no credits]

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.



Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

November 25, 1988

Mining Recorder
Ministry of Northern Development and Mines
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

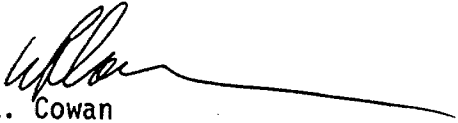
Dear Sir:

Re: Notice of Intent dated November 8, 1988
Geophysical (Electromagnetic & Magnetometer) Survey submitted on
Mining Claims P 952096 et al in Reid and Carnegie Townships

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.

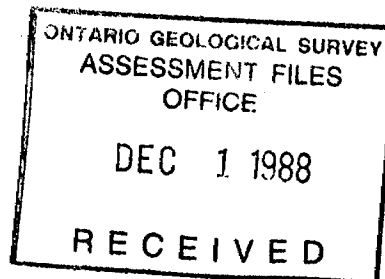
Yours sincerely,


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

RM:pl
Enclosure

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

Comstate Resources Ltd.
Suite 901
1015 4th Street SW
Calgary, Alberta
T2R 1J4



Resident Geologist
Timmins, Ontario

Timmins Geophysics Ltd.
P.O. Box 1783
111 Bruce Ave.
South Porcupine, Ontario
P4N 1H0
Attn: Mr. D. Londry



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 Reid / Carnegie
Claim Holder(s) Comstate Resources Ltd.
Siute 901, 1015 4th St. SW Calgary, Alberta
Survey Company Timmins Geophysics
Author of Report Douglas Londry
Address of Author P.O. Box 1783 South Porcupine, Ontario
Covering Dates of Survey Oct. 1, 1987 to Aug. 31, 1988
Total Miles of Line Cut 81.7 km

MINING CLAIMS TRAVERSED
List numerically

see Schedule A
(prefix) (number)

SPECIAL PROVISIONS
CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.
ENTER 20 days for each additional survey using same grid.

Table with columns: Geophysical, Geological, Geochemical, DAYS per claim. Rows include Electromagnetic (20), Magnetometer (40), Radiometric, Other, Geological, Geochemical.

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

Magnetometer Electromagnetic Radiometric
(enter days per claim)

DATE: Aug. 31, 1988 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. Qualifications 2-2289

Previous Surveys

Table with columns: File No., Type, Date, Claim Holder. Multiple empty rows for data entry.

TOTAL CLAIMS 53

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

HLEM 1830

Number of Stations 3198 Number of Readings mag 4422

Station interval 25 metres Line spacing 100 metres

Profile scale HL: 1 cm = 20%

Contour interval mag: 50 gammas

MAGNETIC

Instrument Scintrex IGS-2/MP-4

Accuracy - Scale constant 0.1 gammas

Diurnal correction method base station

Base Station check-in interval (hours) 30 seconds

Base Station location and value 1200 South, 50 East 58795 gammas

ELECTROMAGNETIC

Instrument Apex Parametrics MaxMin I

Coil configuration horizontal loop

Coil separation 150 metres

Accuracy ±1%

Method: [] Fixed transmitter [] Shoot back [x] In line [] Parallel line

Frequency 444, 1777, 3555 Hz (specify V.L.F. station)

Parameters measured in-phase and quadrature components of the secondary field measured as a percent of the primary field

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

Schedule A

P 952096	P 952130
P 952097	P 952131
P 952098	P 952132
P 952099	P 952133
P 952100	P 952134
P 952101	P 952135
P 952106	P 952136
P 952107	P 952137
P 952108	P 952138
P 952109	P 952139
P 952113	P 952140
P 952114	P 952141
P 952115	P 952142
P 952116	P 952143
P 952117	P 952144
P 952118	P 952145
P 952119	P 952146
P 952120	P 952147
P 952121	P 981685
P 952122	P 981686
P 952123	P 981687
P 952124	P 981688
P 952125	P 981689
P 952126	P 997441
P 952127	P 1026841
P 952128	P 1026842
P 952129	

53 claims

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 _____

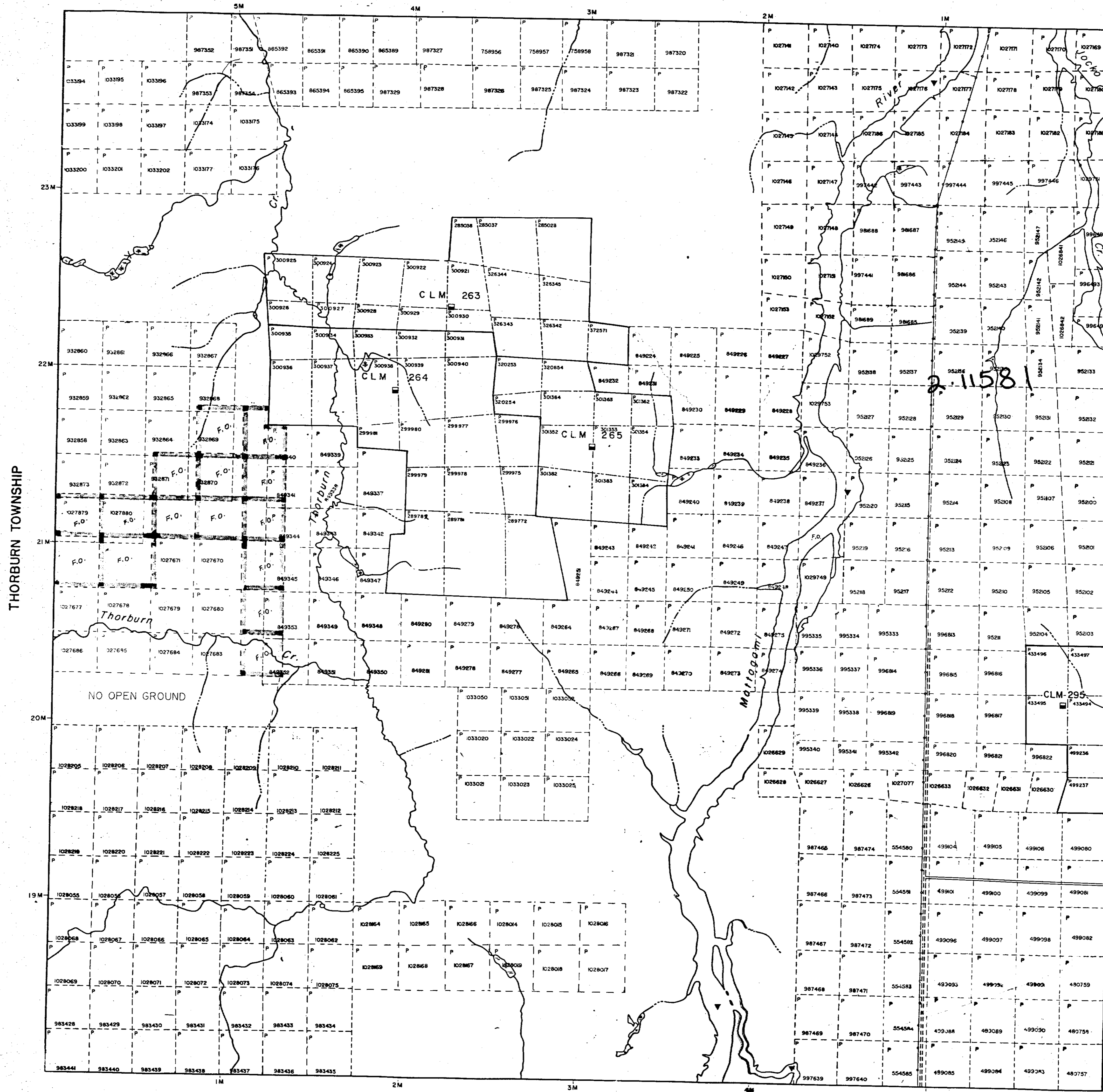
Reagents Used _____

General _____

AREAS WITHDRAWN FROM DISPOSITION

Description	Order No.	Date	Disposition	File
M.R.O. - MINING RIGHTS ONLY				
S.R.O. - SURFACE RIGHTS ONLY				
M.+S. - MINING AND SURFACE RIGHTS				

MAHAFFY TOWNSHIP



NOTES
TOWNSHIP SUBDIVISION ANNULLED AUGUST 19, 1953.
FLOODING ON MATTAGAM RIVER. L.O. 7085.

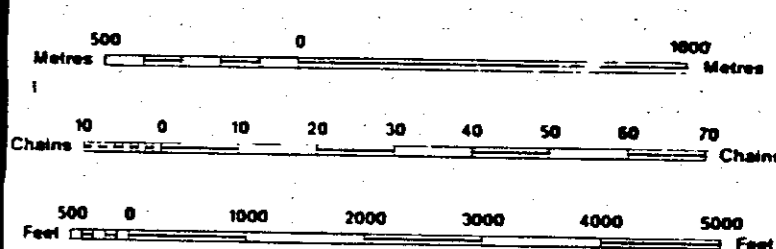
LEGEND

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	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

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

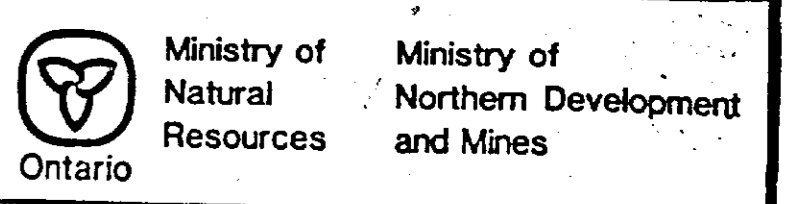


SCALE 1:20 000

CARNEGIE TOWNSHIP

THORBURN TOWNSHIP

TOWNSHIP
REID
M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS
MINING DIVISION
PORCUPINE
LAND TITLES / REGISTRY DIVISION
COCHRANE



AS 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

CRAWFORD TOWNSHIP

REID TOWNSHIP

VI

V

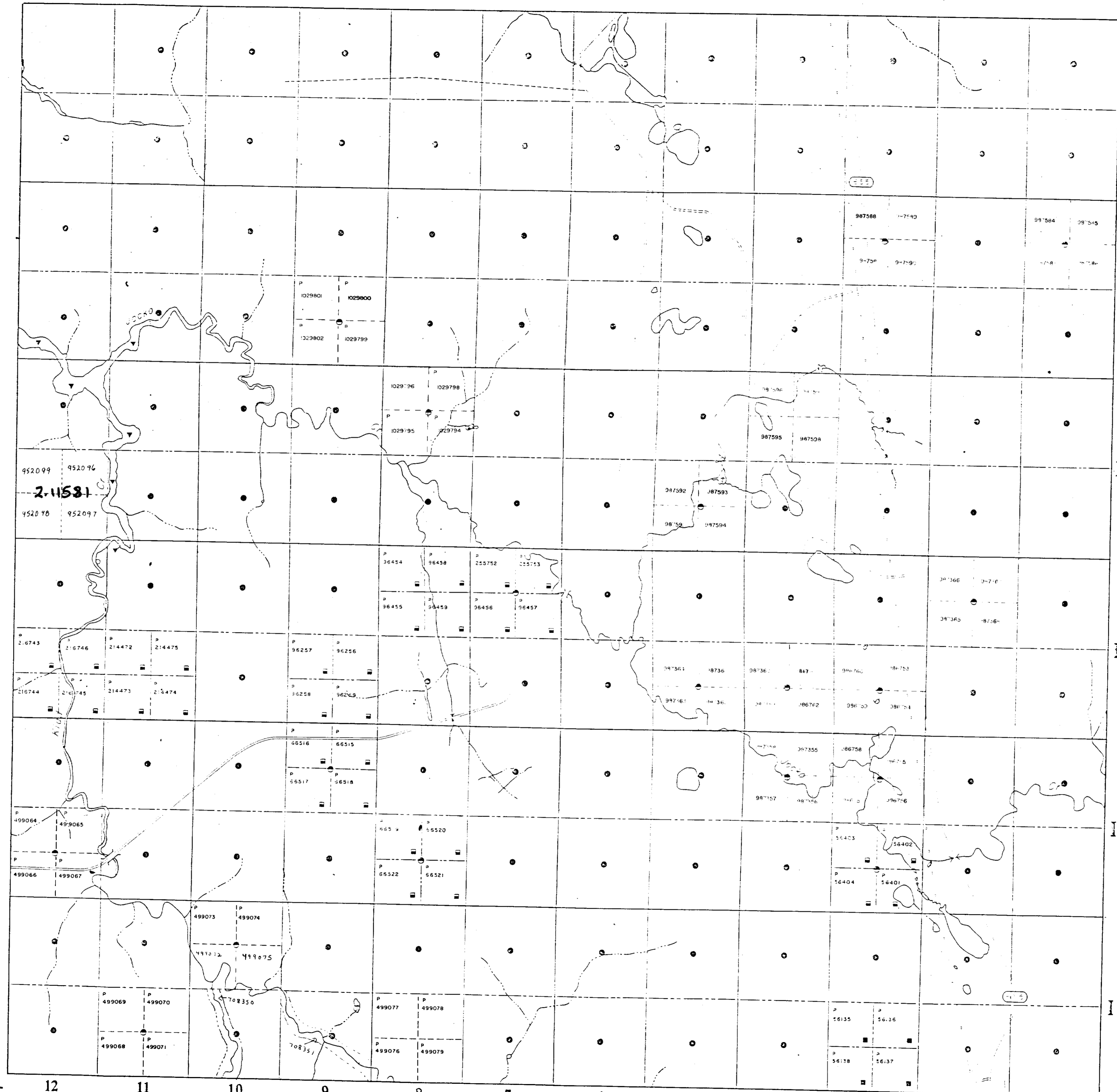
IV

III

II

I

PROSSER TOWNSHIP



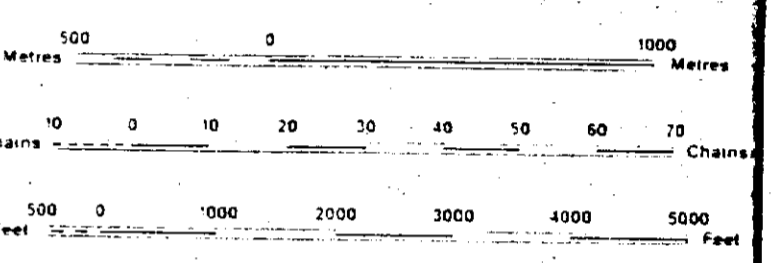
LEGEND

HIGHWAY AND ROUTE No.	
OTHER ROADS	
TRAILS	
SURVEYED LINES	
TOWNSHIP'S 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	

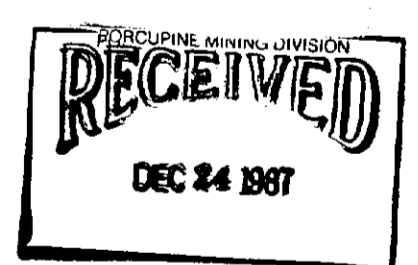
DISPOSITION OF CROWN LANDS

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	
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. 1910, CHAP. 380, SEC. 63, SUBSEC. 1.



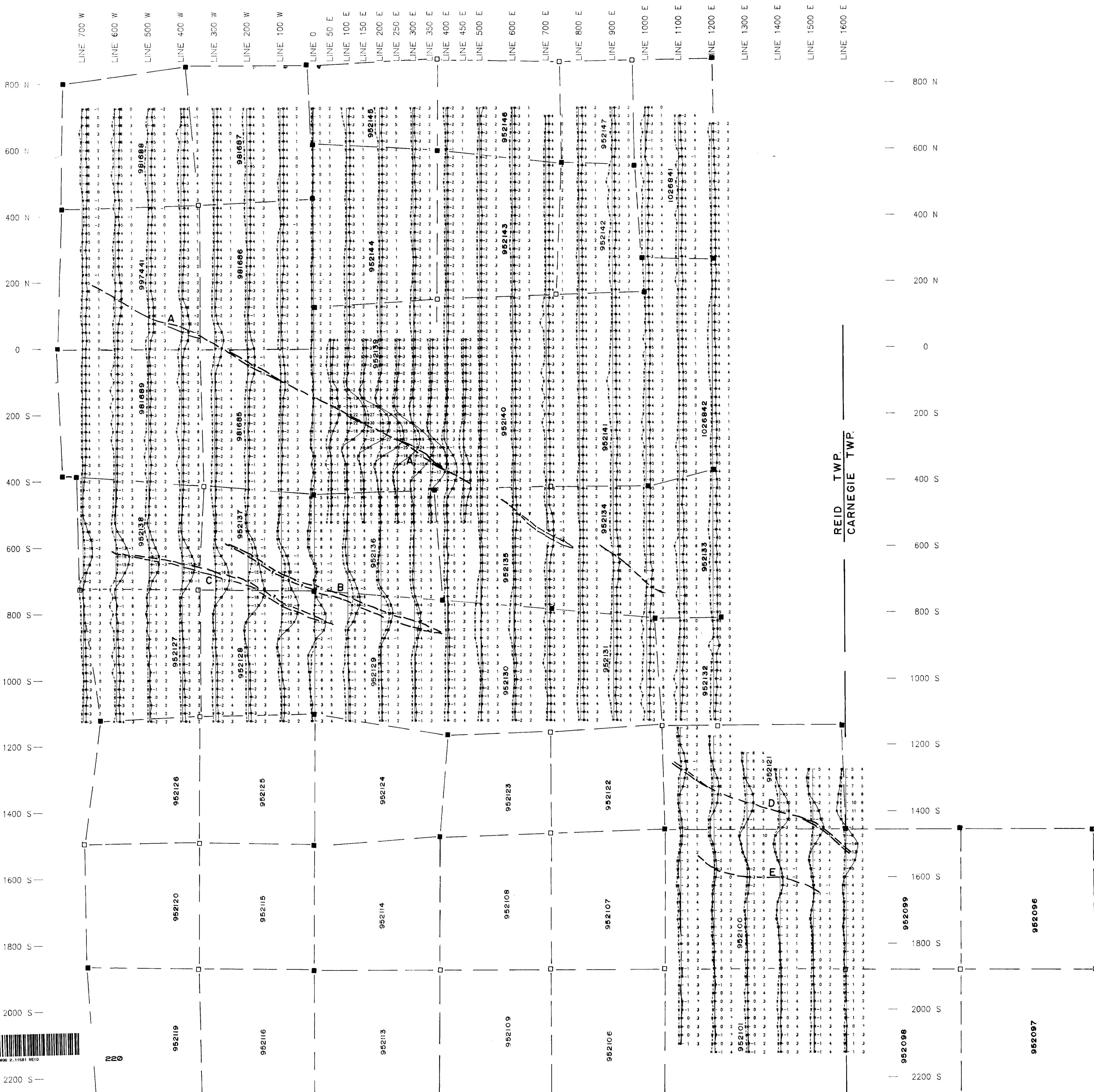
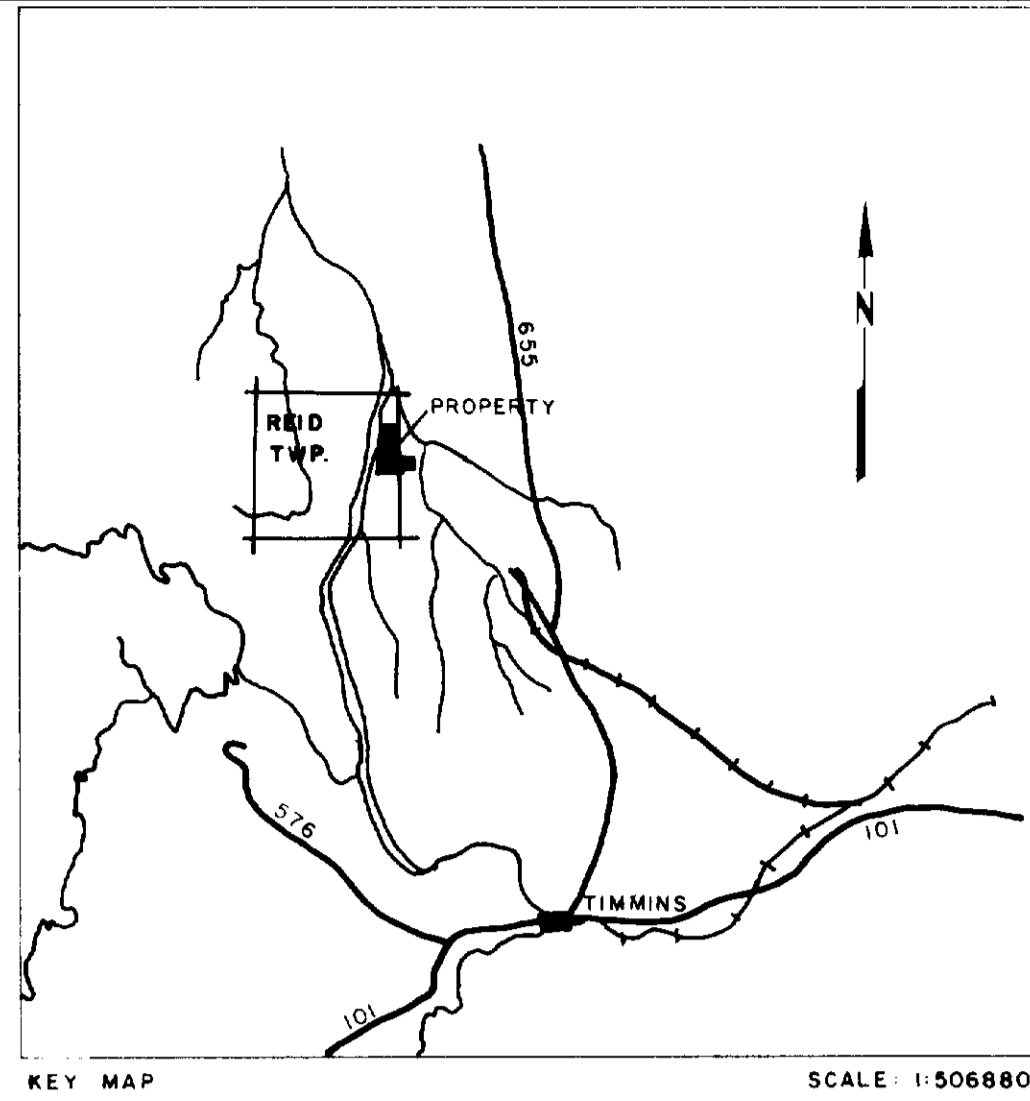
SCALE 1:20 000



TOWNSHIP
CARNEGIE
 M.N.R. ADMINISTRATIVE DISTRICT
 TIMMINS,
 MINING DIVISION
 PORCUPINE
 LAND TITLES / REGISTRY DIVISION
 COCHRANE

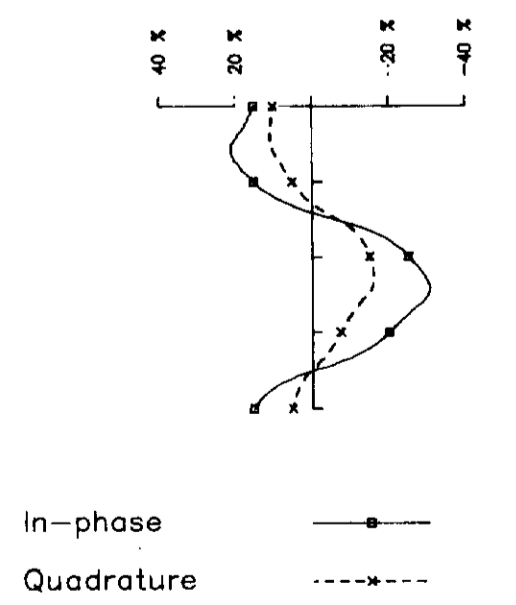
Ministry of Natural Resources Ontario
 Ministry of Northern Development and Mines

Date: OCTOBER, 1988
 Number: G-3930



Claim posts
 ■ Located
 □ Unlocated

Instrument : Apex Parametrics MaxMin 1
 Coil Separation : 150 m
 Frequency : 444 Hz
 Profile Scale : 1cm = 20%



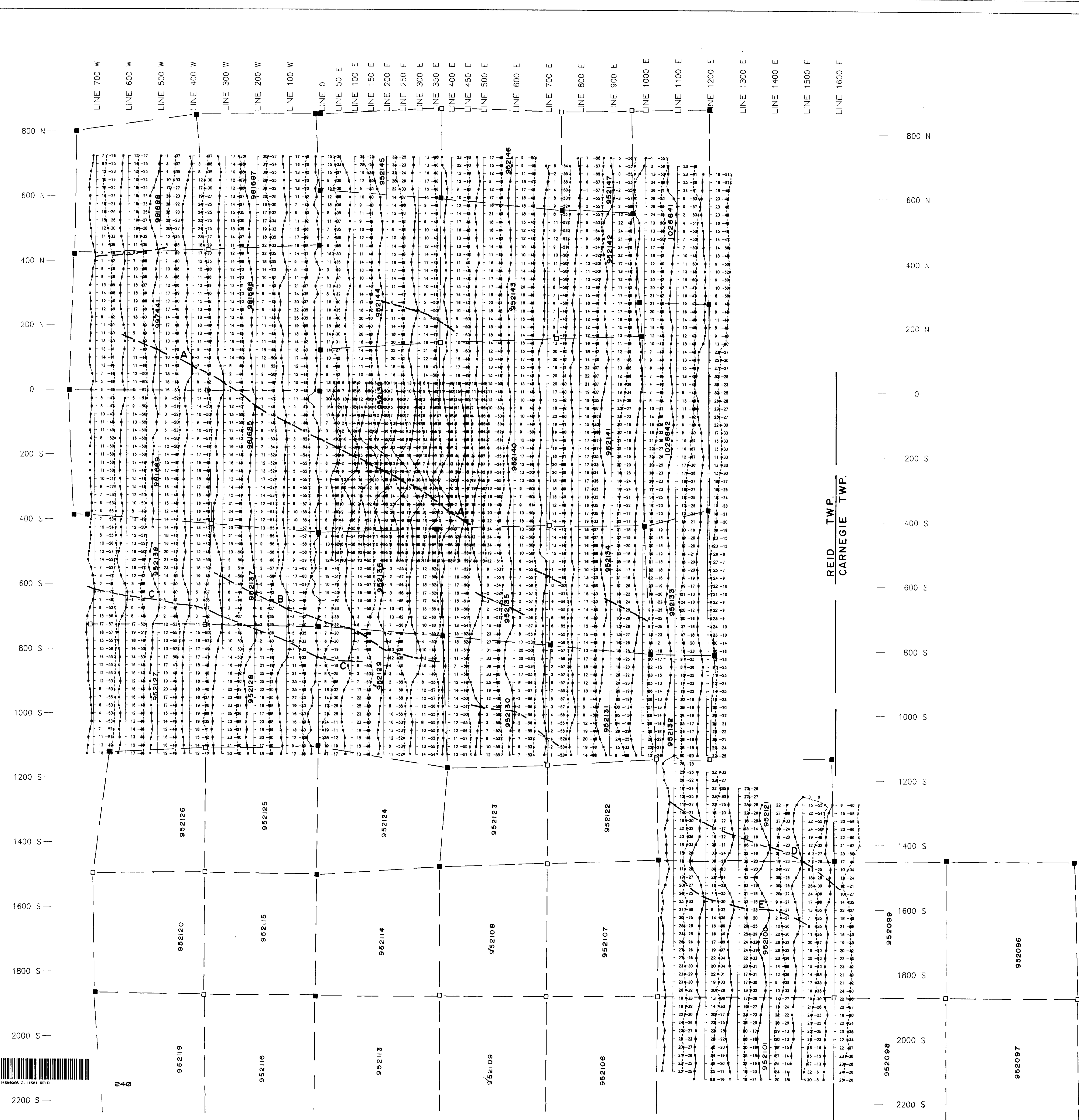
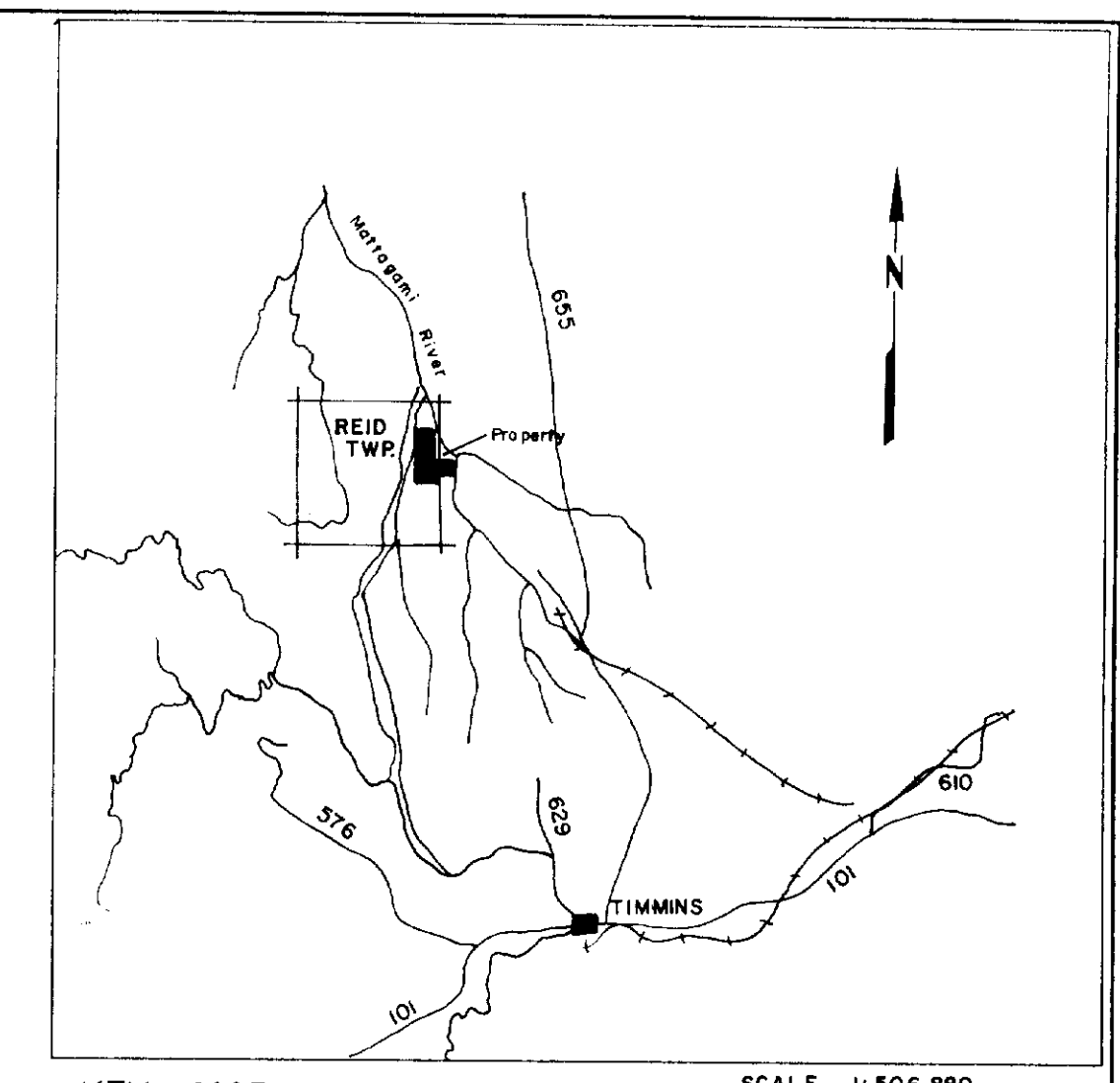
2.11581

COMSTATE RESOURCES LTD.	
HLEM SURVEY	
REID PROPERTY	
NTS 42-A/14	PROJ: 6-141
SCALE : : 5000	DATE : FEBRUARY 1988
FILE : REID.HL	<i>[Signature]</i>
WORK BY :	Timmins Geophysics Ltd.



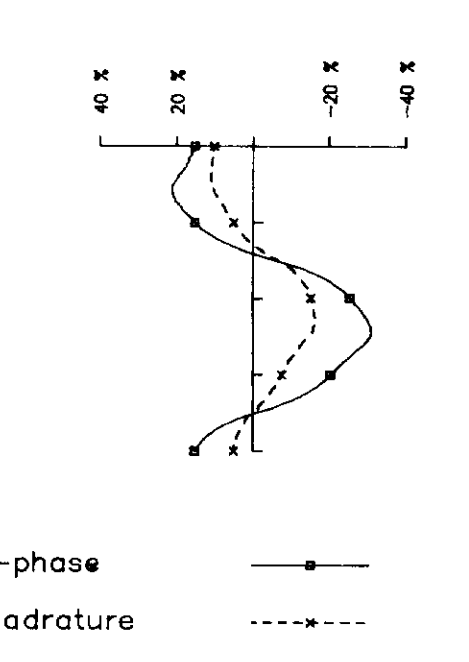
220

2200 S



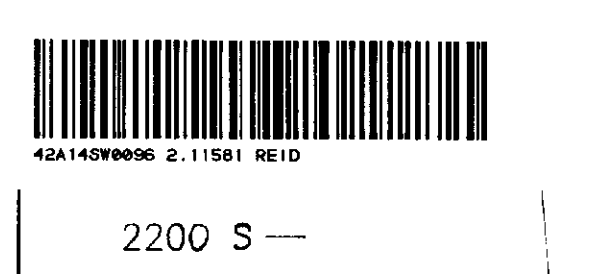
Claim posts
 ■ Located
 □ Unlocated

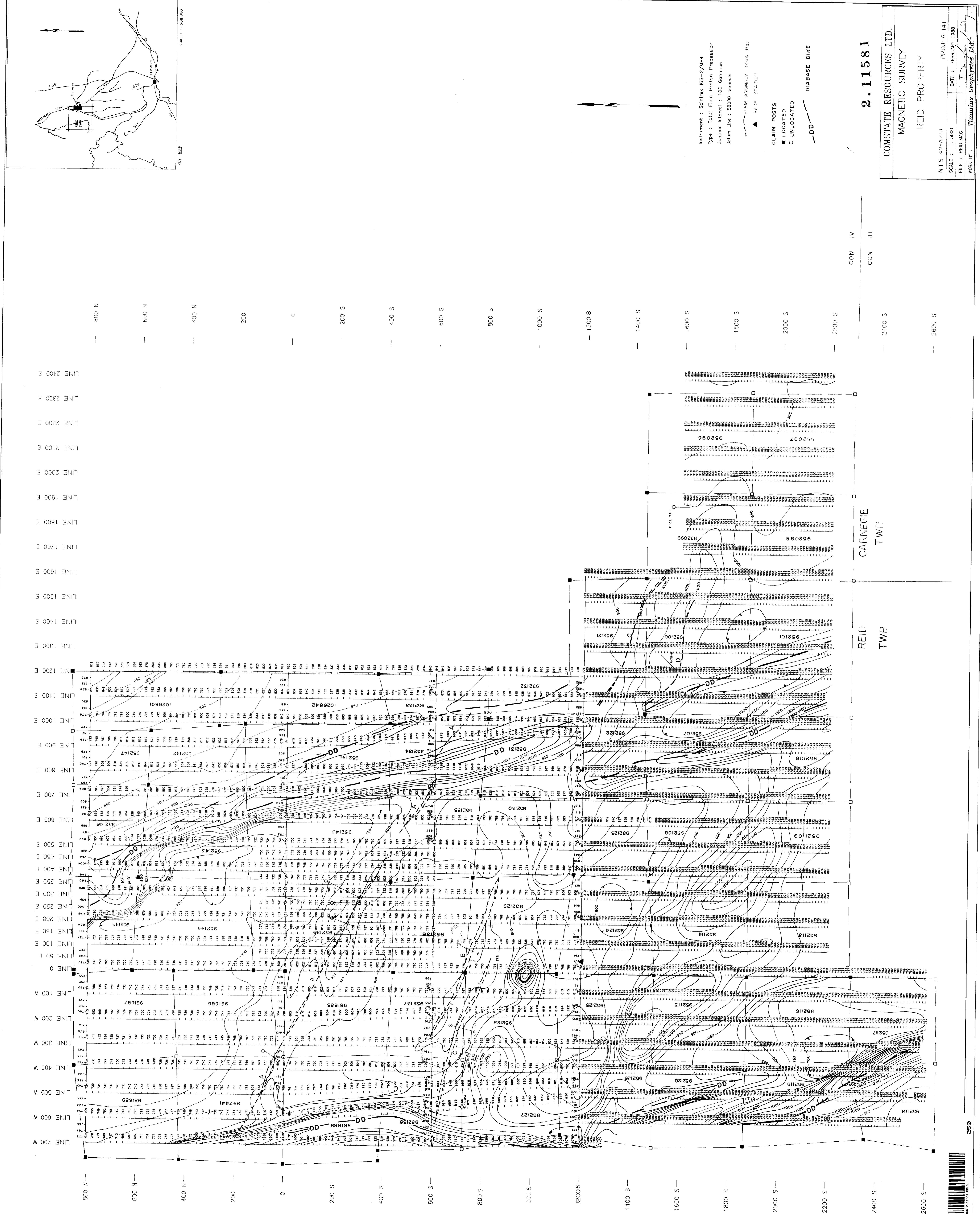
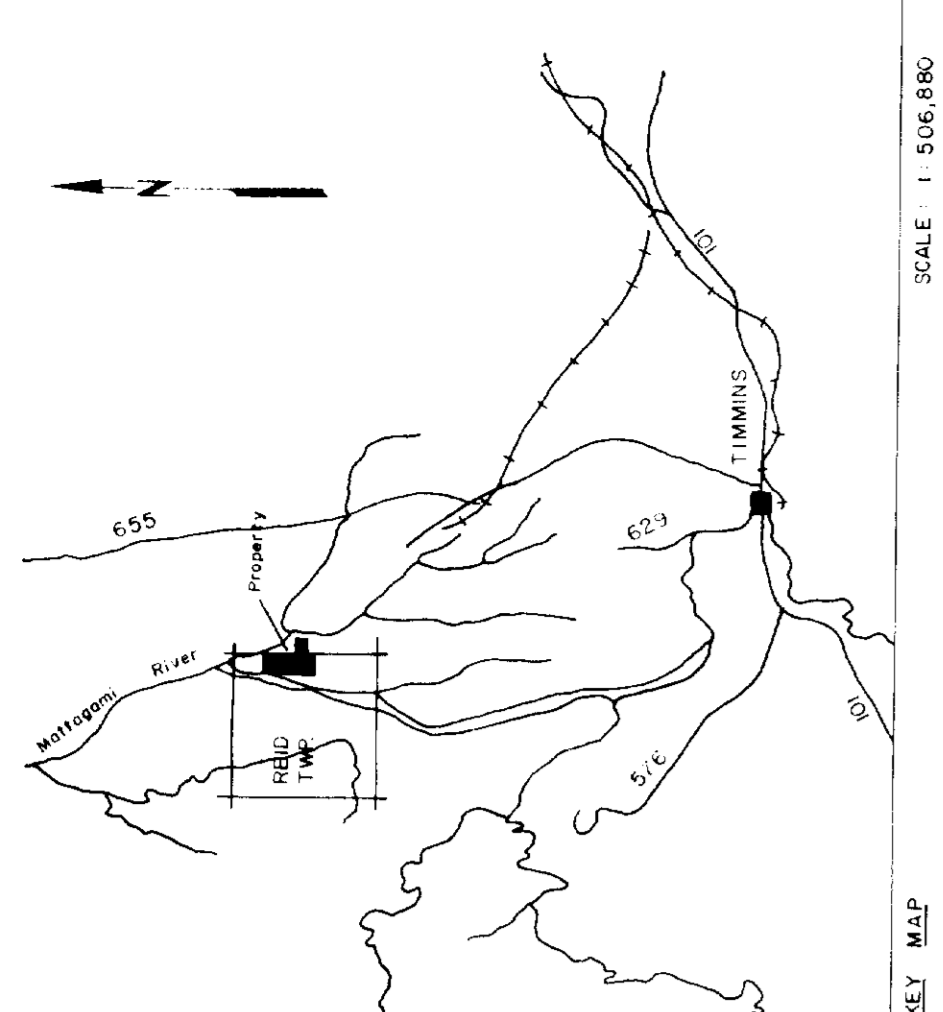
Instrument : Apex Parametrics MaxMin I
 Coil Separation : 150 m
 Frequency : 3555 Hz
 Profile Scale : 1cm = 40%



2.11581

COMSTATE RESOURCES LTD.	
HLEM SURVEY	
REID PROPERTY	
NTS: 42-A/14	PROJ: 6-141
SCALE: 1:5000	DATE: FEBRUARY 1988
FILE: REID.J	
WORK BY:	Timmins Geophysics Ltd.





Instrument : Scintrex GS-2/MP4
 Type : Total Field Proton Precession
 Contour Interval : 100 Gammas
 Datum Line : 58000 Gammas

HELM ANOMALY (±4.4 Hz)
 00-EE 074700

CLAIM POSTS
 ■ LOCATED
 □ UNLOCATED
 --- DD --- DIABASE DIKE

CON IV
 CON III

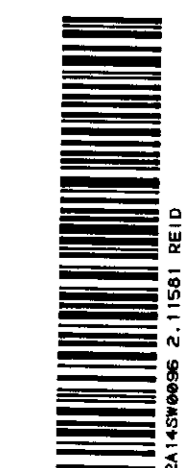
REID TWP.
 CARNEGIE TWP.

2.11581

COMSTATE RESOURCES LTD.
 MAGNETIC SURVEY
 REID PROPERTY

NTS 42-A/14
 SCALE : 1:5000
 FILE : REID.MAG
 WORK BY : *[Signature]*

PROJ. 6-141
 DATE : FEBRUARY 1988
 Timmins Geophysics Ltd.



40-1000000-2-11581-REID