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Report on
Geophysical Work
for
COMSTATE RESOURCES LTD.
on
Reid Property
REID & MAHAFFY TOWNSHIPS

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D. Londry
TIMMINS GEOPHYSICS LTD.

SUMMARY AND RECOMMENDATIONS

Horizontal loop EM and magnetic surveys were carried out for Comstate Resources Ltd. on their Reid-Mahaffy property between November of 1987 and December of 1988.

The magnetic survey outlined north-northwest striking diabase dikes and west-northwest striking ultramafics. Offsets and breaks in the diabase dikes suggest the presence of west northwest striking faults. Thirteen HLEM anomalies on the property reflect steeply dipping bedrock conductors.

Anomaly 'A' is the only EM response with a coincident magnetic anomaly. This zone should be tested below previous drilling on Line 100 East.

Anomalies 'B' to 'E' reflect graphitic sediments which may be related to a west-northwest striking fault zone. Mineralized quartz veins intersected in previous drilling were not sampled for gold.

Five anomalies 'F', 'H', 'I', 'J' and 'K' located in Mahaffy Township, have not previously been tested by diamond drilling. It is recommended that anomalies 'F' and 'K' be detailed with a larger coil separation before being considered as drill targets. Anomaly 'G', also located in Mahaffy Township was tested by Rossario in 1975, however the hole ended in graphite.

Anomalies 'L' and 'M' have both been explained by graphite in previous drill holes and no further work is warranted on these zones.



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INTRODUCTION

During December 1988, magnetic and horizontal loop electromagnetic (HLEM) surveys were carried out for Comstate Resources Ltd. on their Reid-Mahaffy property. The following report discusses the results of these surveys along with previously reported work which was carried out in February 1988 and November 1987.

The property is located approximately 35 kilometres north of the city of Timmins, in the Porcupine Mining Division (Figure 1). It consists of 165 contiguous claims, 64 in the southeast corner of Mahaffy Township, 97 in the northeast corner of Reid Township and 4 in Carnegie Township. A list of all the claim numbers is given in Appendix B.

The southern edge of the claim group can be accessed from the Abitibi Camp 40 road, which can be accessed from Highway 655. The northern claims can be accessed from Highway 655 along the road to the Lower Sturgeon Dam on the Mattagami River.

The field crew in December 1988 consisted of B. Pigeon, S. Ryan, J. DerWeduwen and L. Varin.



Figure 1: Location map

PREVIOUS WORK

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

In 1964, Texmore Mines Limited carried out magnetic and vertical loop EM (VLEM) surveys over 20 claims between the power line and Jocko Creek in Reid Township. A number of drill holes were recommended to test conductive zones, however, no drill results were filed. In the same year, Canadian Javelin Limited also ran magnetic and VLEM surveys between the power line and the Mattagami River, as a follow-up to an airborne 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.

United Porcupine Mines limited held 20 claims along the north boundary of Reid Township in 1964. Magnetic and VLEM surveys were carried out and four holes were drilled to test isolated EM anomalies; no conductors were intersected.

In 1965 Terra Nova Explorations Ltd. carried out HLEM, VLEM and magnetic surveys on ten claims in Reid Township between Jocko Creek and the Mattagami River.

In 1966 Kidd Copper Mines Limited ran magnetic and HLEM surveys over 10 claims in Reid Township. It was recommended that two weak northwest striking EM anomalies be tested by diamond drilling, however, no holes were filed for assessment.

YEAR	COMPANY	GROPHYSICS	DRILL HOLBS	ASSESSMENT FILE
1980	ROSSARIO RESOURCES CANADA LTD.	MAG,HLBM		T-2336
1980	UTAH,ROSSARIO,AQUITAINE J.V.	IP		T-1841
1979	GULF MINERALS CANADA LTD.	MAG	R-80-D-1 TO 13 R-80-C-1B,2	T-1929
1978	GREAT PLAINS DEVELOPMENT CO. LTD.	MAG,HLBM		T-1914
1977	ROSSARIO RESOURCES CANADA LTD.	MAG,HLBM	RM-1	T-1841
1975	PHELPS DODGE CORP. OF CANADA	MAG,HLBM	152-4,5	T-1676
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
1966	KIDD COPPER MINES LTD.	MAG,HLBM		T-919
1965	TERRA NOVA EXPLORATIONS LTD.	MAG,HLBM,VLBM		T-1216
1964	UNITED PORCUPINE MINES LTD.	MAG,VLBM	P 1-4	T-1293
1964	CANADIAN JAVBLIN LIMITED	MAG,VLBM	H-1/1	T-935
1964	TEXORE MINES LIMITED	MAG,VLBM		T-1011
1964	E. ABEL	MAG,JBH		T-1098

TABLE 1: Summary of Previous Work

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 three 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.

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 the east of the present property to test this anomaly intersected peridotite.

Phelps Dodge Corporation of Canada Ltd. cut five small grids in 1975 to cover airborne EM anomalies. Magnetic and HLEM surveys were carried out on all of the grids. Anomalies 'I' and 'J' were detected in this work, however, were not tested by diamond drilling. Hole 152-5 was drilled to test anomaly 'L'; over 100 feet of graphite and graphitic sediments were intersected. Hole 152-4, drilled to test anomaly 'M', intersected a number of

graphite bands.

In 1977 Rossario Resources Canada Limited carried out an extensive exploration program centered along the Reid-Mahaffy Township line. Only the eastern edge of the present Comstate property was covered in this work. An HLEM survey covered anomaly 'G' and hole RM-1, drilled to test this anomaly, ended in graphite. In 1980, in a joint venture with Rossario, Utah Mines Ltd. carried out an I.P. survey over anomaly 'G' and an HLEM survey over anomaly 'M'; no further drilling was reported.

In 1978 Great Plains Development Co. Ltd. ran HLEM and magnetic surveys over four claims between Jocko Creek and the Mattagami River in Reid Township. An east-west striking quadrature EM anomaly was interpreted as a fault zone.

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', R-80-D-12 tested conductor 'D' and R-80-D-13 tested conductor 'E'.

In 1980 Rossario 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 coincide with conductors 'D' and 'E'.

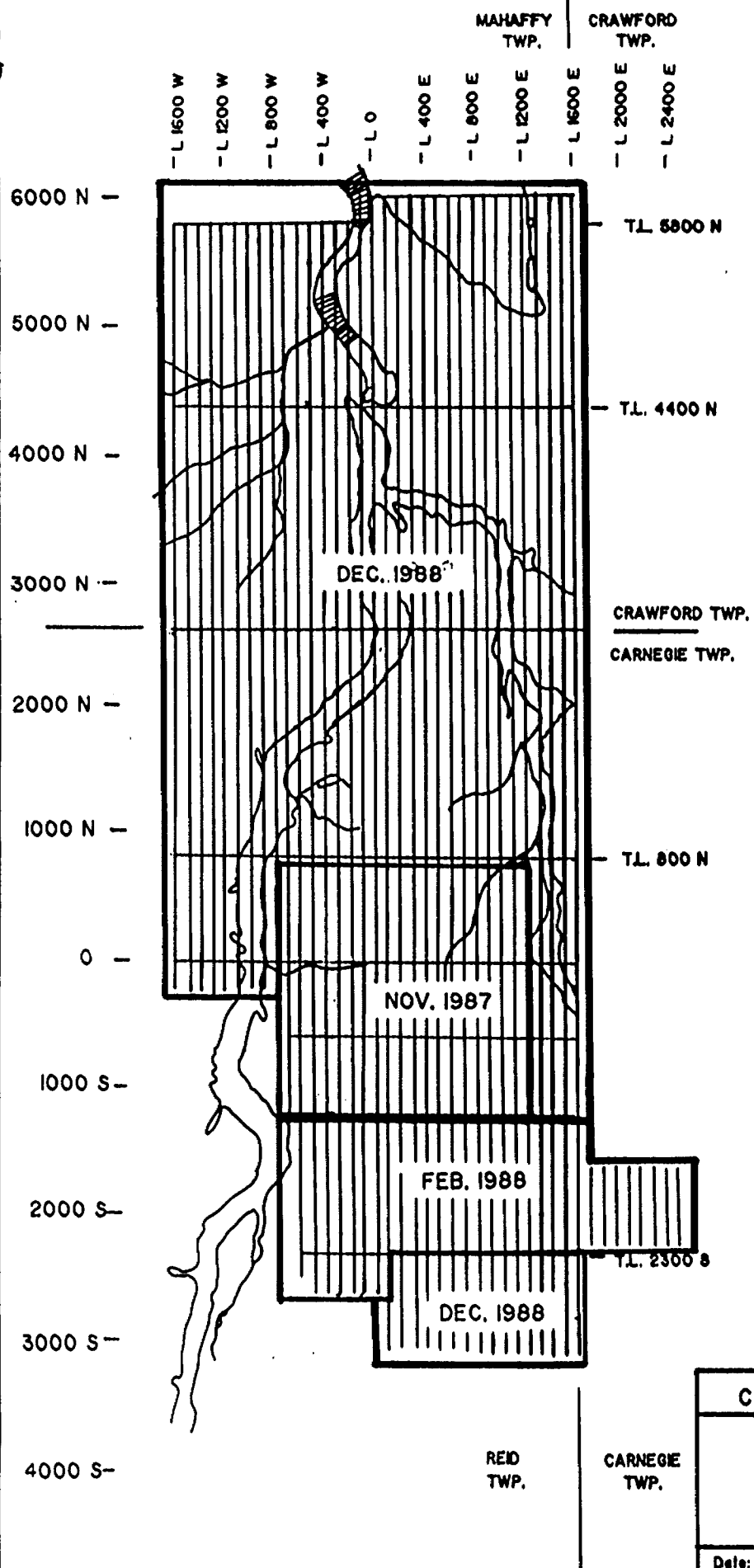
SURVEY DESCRIPTION

The geophysical work has been carried out in three phases as outlined in Figure 2.

The horizontal loop EM survey was carried out with the Apex Parametrics Max Min I. This instrument measures the in-phase 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. In 1987 the HLEM survey was carried out using three frequencies - 444, 1777 and 3555 Hz. In 1988 only two frequencies (444 and 1777 Hz.) were read and the EM survey work was restricted to areas with airborne anomalies outlined in the 1988 OGS survey.

The magnetic readings were taken with 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. In November 1987 the magnetic readings were taken every 25 metres; in February and December 1988 the station spacing was changed to 12.5 metres. The diurnal drift was monitored every 30 seconds with a Scintrex MP-3 base station magnetometer.

In order to plot the results at a scale of 1:5000 the property was divided into 3 parts, labelled Areas A, B and C on the maps. The profile scale on the HLEM maps is 1 cm = 20% and the contour interval on the magnetic maps is 50 gammas.



COMSTATE RESOURCES LTD.	
GRID SKETCH REID PROPERTY FIGURE 2.	
Date: FEB. 1989	Scale: 1: 50,000
NTS : 42-A/14	

HLEM RESULTS

Twelve definite bedrock conductors were detected in the horizontal loop EM survey. A list of previous work carried out on each conductor 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 15 were calculated using the lowest frequency, where the inversion is least pronounced. Even at 444 Hz, however, the depth and conductivity thickness calculations may be higher than the true values.

CONDUCTOR	COMPANY, YEAR	SURVEYS	CONDUCTIVITY	DRILL HOLE	SOURCE	ASSESSMENT FILE
A	MINERALS, 1979	MAG, EM		R-80-D-3, 4, 6	GRAPHITE	T-1929
	NEWMONT, 1979	IP	POOR		(SULPHIDE)	T-40
	MATTAGAMI, 1970	AEM	TO			T-470
	INCO, 1967		VBRV	32912	GRAPHITE	T-1350
	CANADIAN JAVELIN, 1964	VLEM	GOOD			T-935
	TEXORE, 1964	VLEM				T-1011
B	GULF MINERALS, 1979	MAG, EM		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, 1964		GOOD	32911	GRAPHITE	T-1350
	CANADIAN JAVELIN, 1964	VLEM				T-935
	TEXORE, 1964	VLEM				T-1011
C	GULF MINERALS, 1979	MAG, EM		R-80-D-9	?	T-1929
	NEWMONT, 1974	IP	GOOD			T-40
	MATTAGAMI LAKE, 1970	AEM	TO	T-A2-72-1, 3	GRAPHITE	T-470
	INCO, 1967		VBRV			T-1350
	CANADIAN JAVELIN, 1964	VLEM	GOOD	H-1/1	GRAPHITE	T-935
	TEXORE, 1964	VLEM				T-1011

TABLE 2: Summary of Conductors

TABLE 2: (continued)

CONDUCTOR	COMPANY, YEAR	SURVBYS	CONDUCTIVITY	DRILL HOLE	SOURCE	ASSESSMENT FILE
D	ROSARIO, 1980	MAG,HLEM				T-236
	GULF MINERALS, 1979	MAG,BH		R-80-D-13	GRAPHITE	T-1929
	NEWMONT, 1974	IP	VERY			T-40
	MATTAGANI LAKE, 1970	ABM	GOOD	T-CL-72-1	GRAPHITE	T-470
	E. ABBL, 1964	MAG,JBM				T-1086
B	ROSARIO, 1980	MAG,HLEM				T-236
	GULF MINBRALS, 1979	MAG,BH		R-80-D-12	GRAPHITE	T-1929
	NEWMONT, 1974	IP	GOOD			T-40
	MATTAGANI LAKE, 1970	ABM				T-470
	E. ABBL, 1964	MAG,JBM				
F	NO PREVIOUS WORK		POOR			
G	UTAH, 1980	IP				T-1841
	ROSSARIO, 1977	HLEM,IP	GOOD	RM-1	GRAPHITE 25% PYRITE	T-1841
H	NO PREVIOUS WORK		VERY GOOD			
I	PHELPS DODGE, 1975	MAG,HLEM	POOR TO VERY GOOD			T-1676
J	PHELPS DODGE, 1975	MAG,HLEM	VERY GOOD			T-1676
K	NO PREVIOUS WORK		VERY GOOD			
L	PHELPS DODGE, 1975	MAG,HLEM	GOOD	152-5	GRAPHITE	T-1676
M	UTAH, 1980	HLEM	GOOD			T-1841
	PHELPS DODGE, 1975	MAG,HLEM		152-4		T-1676

TABLE 2: Summary of Conductors

The power line along Line 0 is responsible for the slightly noisier readings and higher background in the results along that line. The edges of Jocko Creek and the Mattagami River give weak, mainly quadrature anomalies. These are most noticeable where the lines are orthogonal to the rivers: for example, Jocko Creek in Area 'A' and the Mattagami River where it swings southwest in Area 'B'.

The following is a description of all anomalies labelled on the maps. Anomalies which are not labelled have poor conductivities and are likely surficial.

ANOMALY A

Anomaly 'A' reflects a narrow conductor which strikes west-northwest on the northern edge of Area C. 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 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.

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
600	W 150 N	NARROW	-3	-2	90	26	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.

ANOMALY B

Anomaly 'B' strikes west-northwest between 300 East and 300 West in Area C. 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. Hole R-80-D-11, drilled by Gulf Minerals in 1980 to test Anomaly 'B' intersected a four foot wide mineralized quartz vein within the graphitic zone; it does not appear to have been sampled.

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
200 W	635 S	?	?	?			INTERFERENCE FROM 'C'
100 W	685 S	?	?	?			INTERFERENCE FROM 'C'
0 W	719 S	?	?	?			INTERFERENCE 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

Anomaly 'C' is located between 0 East and the west edge of Area C. It reflects a narrower conductor at the greater depth than 'B'; the dip is steep to the south and 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.

LINE	ANOMALY CENTRE	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.

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 anomalous low magnetic field; previous drilling has determined that the source of these anomalies is pyritic graphite.

ANOMALY D

Anomaly 'D' is located to the east and on strike with anomaly 'B'. It reflects a very good conductor up to 30 metres wide at a depth of 60 to 80 metres (Table 6). The dip of this zone is difficult to determine because of interference from the response of Anomaly 'E' in Reid Township and because the anomalies are incomplete in Carnegie Township.

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
1100 B	1270 S	10	-8	-5	66	28	INTERFERENCE FROM 'B'
1200 B	1335 S	NARROW	-8	-2	80	98	INTERFERENCE FROM 'B'
1300 B	1375 S	NARROW	-10	-2	74	132	INTERFERENCE FROM 'B'
1400 B	1400 S	NARROW	-12	-3	68	113	INTERFERENCE FROM 'B'
1500 B	1440 S	5	-14	-4	60	98	INTERFERENCE FROM 'B'
1600 B	1520 S	10	-14	-2	65	151	N DIP
1700 B	1500 S	?	?	?	?	?	
1800 B	1540 S	?	?	?	?	?	
1900 B	1575 S	?	14	1	66	193	
2000 B	1600 S	?	17	2	57	171	
2100 B	1625 S	?	?	?	?	?	
2200 B	1700 S	?	12	2	69	152	
2300 B	1750 S	NARROW	12	5	62	66	
2400 B	1790 S	NARROW	?	?	51	13	

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

ANOMALY E

Anomaly 'E' is located to the east and on strike with anomaly 'C'. It 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).

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

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

ANOMALY F

Anomaly 'F' strikes east-west at the north end of Lines 400 and 500 West in Area A. The anomaly on Line 400 West is mainly a quadrature anomaly and likely reflects the edge of a bedrock high to the south. The anomaly has a better conductivity on Line 500 West and may reflect a bedrock source on this line (Table 8). The survey should be extended to the north and re-evaluated before it is considered as a drill target.

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
500 W	4675 N	?	5	8	30	8	
400 W	4675 N	?	2	7	12	2	

Table 8: HLEM Anomaly F, 444 Hz, 150 m. coil separation.

ANOMALY G

Anomaly 'G' strikes east-west on Lines 900 to 1200 West at 4100 North (Area A). The depth of the conductor increases from 30 metres on Line 900 West to 90 metres on Line 1200 West (Table 9). The conductivity varies from poor on Line 900 West to very good on Line 1100 West. The dip is difficult to determine because of anomalous high readings to the south and north, which are not related to the conductor. These readings are due to shallower overburden near the streams and also, possible short cable effect due to topography around the streams and offsets in the lines at Tie Line 4400 North.

This anomaly was tested by Rosario in 1978. Hole RM-1 intersected bands of graphite with up to 25% pyrite. The hole ended in graphite.

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
1200 W	4065 N	NARROW	3	2	90	28	S DIP
1100 W	4080 N	5	12	4	65	89	S DIP
1000 W	4110 N	8	16	9	42	28	S DIP
900 W	4115 N	NARROW	8	11	30	8	S DIP

Table 9: HLEM Anomaly G, 444 Hz, 150 m. coil separation.

ANOMALY H

Anomaly 'H' is located at approximately 4100 North on Lines 400, 500 and 600 East (Area A). It reflects a narrow conductor, 60 to 70 metres below surface (Table 10). The dip of the zone is close to vertical or steep north.

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
400 E	4135 N	7	9	4	71	62	VERTICAL
500 E	4110 N	NARROW	14	6	56	81	STEEP N DIP
600 E	4135 N	NARROW	12	6	57	46	VERTICAL

Table 10: HLEM Anomaly H, 444 Hz, 150 m. coil separation.

ANOMALY I

This anomaly reflects a narrow conductor which strikes east-west on Lines 1200 to 1600 East at 4100 North. The depth of the source increases from 37 metres on Line 1600 East to 90 metres on Line 1200 East (Table 11). The conductivity of the zone also increases from east to west. Phelps Dodge detected this conductor in their 1975 survey, however it was not tested.

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
1200 E	4100 N	NARROW	4	2	90	47	VERTICAL
1300 E	4100 N	NARROW	7	6	57	19	VERTICAL
1400 E	4100 N	NARROW	6	7	47	9	VERTICAL
1500 E	4075 N	NARROW	2	3	45	4	VERTICAL
1600 E	4050 N	NARROW	12	37	3	3	VERTICAL

Table 11: HLEM Anomaly I, 444 Hz, 150 m. coil separation.

ANOMALY J

Anomaly 'J' reflects a short conductor on the Mattagami River at 3100 North (Area A). The conductivity is very good and the width on Line 0 is 10 metres (Table 12). The weak response on strike with this conductor at Line 100 East likely reflects the edge of the river rather than a continuation of the zone. The high positive shoulder to the north of the conductor suggests a shallow north dip. An east-west profile to the north of the conductor

would help explain why the in-phase response stays anomalously high on Line 100 West. This zone was detected by Phelps Dodge in their 1975 surveys however it also was not tested by diamond drilling.

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
100 W	3110 N	NARROW	11	3	71	98	N DIP
0 W	3115 N	10	17	3	56	142	N DIP

Table 12: HLEM Anomaly J, 444 Hz, 150 m. coil separation.

ANOMALY K

Anomaly 'K' strikes northwest-southwest from 2960 North on Line 600 East to 2900 North on Line 700 East (Table 13). The amplitude of this anomaly is low; the quadrature response is almost non-existent giving it a high conductivity.

This zone should be detailed with a longer coil separation before being considered as a drill target.

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
600 E	2960 N	NARROW	5	2	57	76	
700 E	2900 N	NARROW	2	?	?	?	

Table 13: HLEM Anomaly K, 444 Hz, 150 m. coil separation.

ANOMALY L

Anomaly 'L' strikes southeast-northwest between 1895 North on Line 600 West and 1985 North on Line 100 West. It reflects a poor conductor at a depth of 30 to 40 metres. The dip of the conductor is difficult to determine because of interference from surficial anomalies along the Mattagami River. Hole 152-5, drilled by Phelps Dodge in 1975 suggests that the width of the zone is likely due to two closely spaced graphite bands rather than one wide conductor.

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
700 W	1985 N	35	6	8	39	8	
800 W	1895 N	35	7	10	31	8	

Table 15: HLEM Anomaly L, 444 Hz, 150 m. coil separation.

ANOMALY M

Anomaly 'M' strikes west-northwest between Lines 900 and 1300 West. It reflects a wide conductive zone at a depth of 20 to 40 metres; the conductivity is good and the dip is near vertical (Table 14). Hole 152-4, drilled by Phelps Dodge in 1975 intersected a number of graphitic bands rather than one large body.

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
1300 W	1860 N	20	9	9	43	13	
1200 W	1790 N	35	12	13	33	13	
1100 W	1755 N	40	17	15	27	17	
1000 W	1700 N	70	22	17	23	23	2 CONDUCTORS
900 W	1640 N	50	12	15	24	9	2 CONDUCTORS

Table 14: HLEM Anomaly M, 444 Hz, 150 m. coil separation.

MAGNETIC RESULTS

Figure 3 is a colour image of the total magnetic field from the 1988 O.G.S. airborne survey. The Jocko Creek Fault and a splay off this fault have been interpreted to cut through the Reid Property. In the magnetic results on the property (Figure 4) these faults are marked by offsets in north-northwest striking diabase

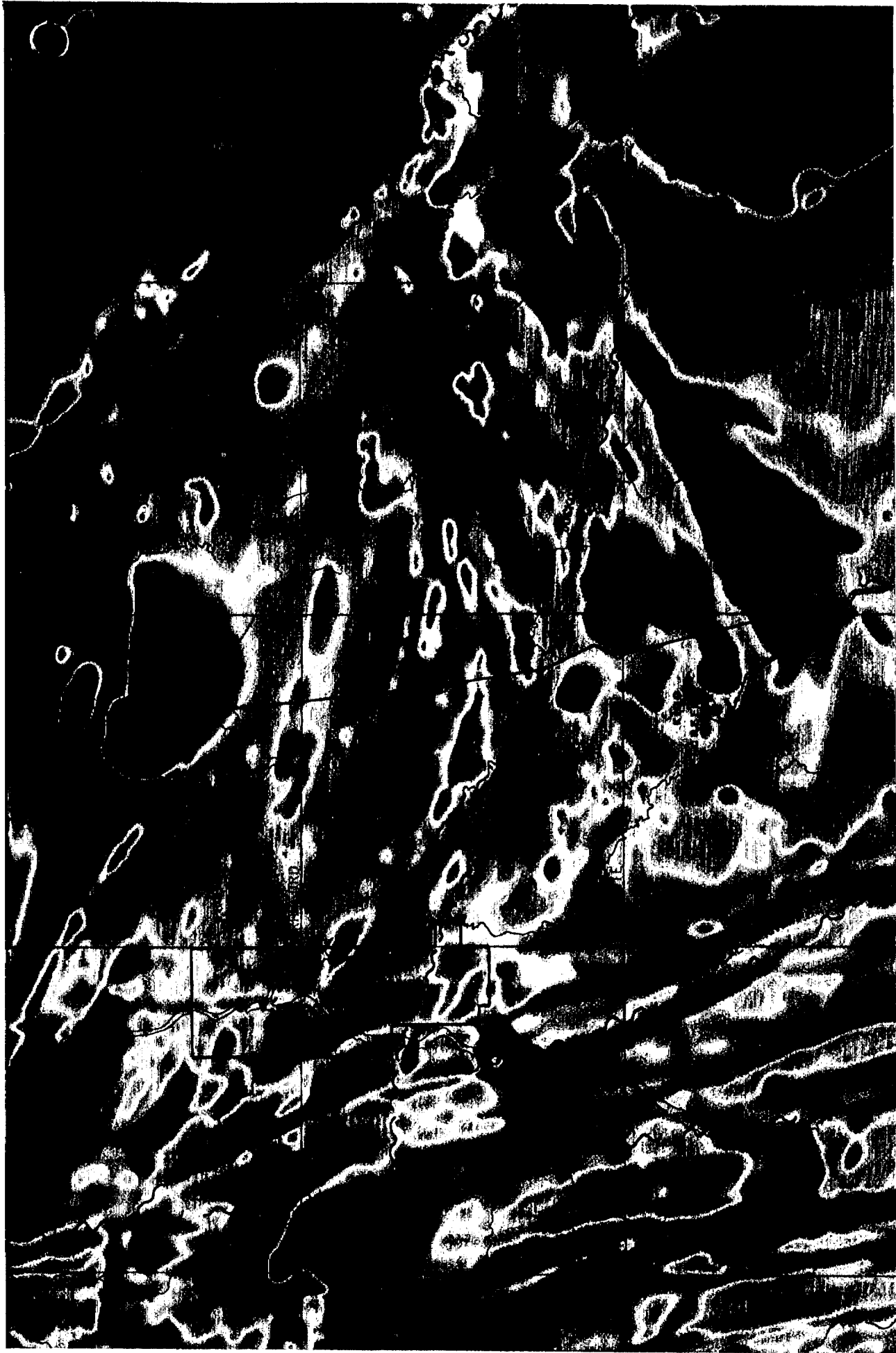
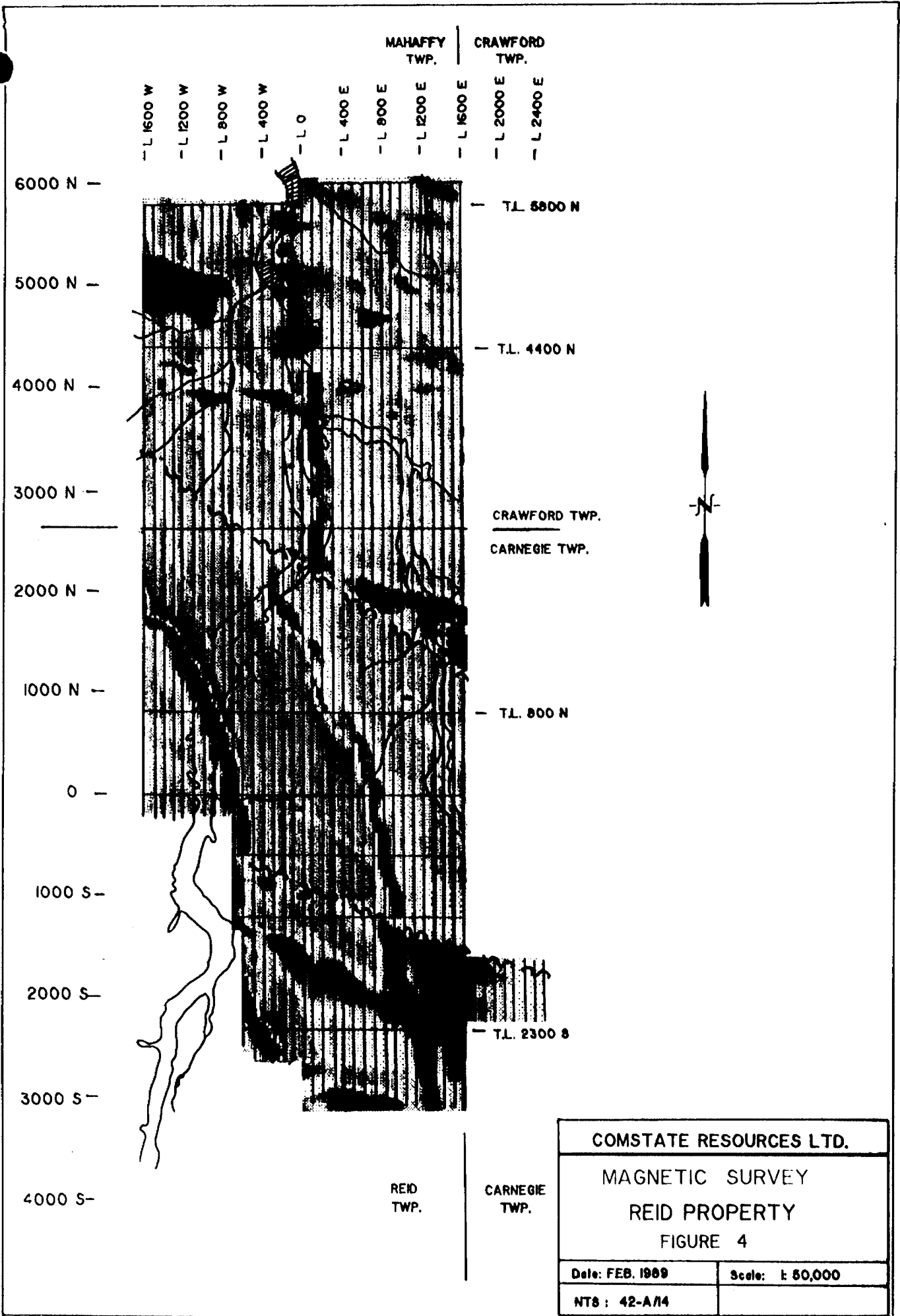


Figure 3: Total magnetic field colour image, 1988 OGS airborne survey. Scale 1:160,000 approx. (After Barlow, 1988)



dikes; the dikes are reflected by linear anomalies, up to 700 gammas above background. The southern fault between 1000 and 2000 South coincides with EM anomalies 'BD' and 'CE'. There is no EM response along the northern fault.

There is little magnetic relief in the area between the two interpreted faults except for the diabase dikes. The magnetic anomaly which coincides with EM anomaly 'A' reflects pyrrhotite mineralization within a graphitic unit.

To the north and south of the faults, west-northwest striking magnetic high anomalies reflect ultramafic rocks.

Except for EM anomaly 'A', none of the conductors on the property have a coincident magnetic anomaly.


DOUGLAS LONDREY

TIMMINS GEOPHYSICS LTD.

REFERENCES

Barlow. R. B.

1988: Total Magnetic Field colour image developed from Digital Archives of the Ontario Geological Survey. Timmins Area. Districts of Cochrane and Timiskaming. Map 81138. Geophysical/Geochemical Series.

APPENDIX A



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) GEOPHYSICS
Township or Area REID - MAHAFFY TWPS.
Claim Holder(s) COMSTATE RESOURCES LTD.
Suite 901, 1015 4th St. W.W., Calgary, Alb.
Survey Company TIMMINS GEOPHYSICS LTD. TIR 1J4
Author of Report D. LONDRY
Address of Author P.O. BOX 1783, SOUTH PORCUPINE, Ont. PON 1H0
Covering Dates of Survey Nov. 1/88 - Mar. 9/89
(linecutting to office)
Total Miles of Line Cut 219.5 km.

MINING CLAIMS TRAVERSED
List numerically

(SEE ATTACHED LIST)

(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.

Geophysical

-Electromagnetic 20

-Magnetometer _____

-Radiometric _____

-Other _____

Geological _____

Geochemical _____

DAYS
per claim

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

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

DATE: Mar. 9, 1989 SIGNATURE: D. Londry
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS _____

OFFICE USE ONLY

LIST OF CLAIMS

P	952096	C	P	1027185	R
P	952097	C	P	1027186	R
P	952098	C	P	1029115	M
P	952099	C	P	1029116	M
P	952102	R	P	1029117	M
P	952103	R	P	1029118	M
P	952116	R	P	1029119	M
P	952117	R	P	1029120	M
P	952118	R	P	1029121	M
P	952119	R	P	1029122	M
P	997443	R	P	1029123	M
P	997444	R	P	1029124	M
P	1027140	R	P	1029145	M
P	1027141	R	P	1029146	M
P	1027142	R	P	1029147	M
P	1027143	R	P	1029148	M
P	1027144	R	P	1029149	M
P	1027145	R	P	1029150	M
P	1027164	M	P	1029151	M
P	1027165	M	P	1029152	M
P	1027166	M	P	1029154	M
P	1027169	R	P	1029704	M
P	1027170	R	P	1029705	M
P	1027172	R	P	1029706	M
P	1027173	R	P	1029707	M
P	1027174	R	P	1029708	M
P	1027175	R	P	1029722	M
P	1027176	R	P	1029725	M
P	1027177	R	P	1029726	M
P	1027179	R			
P	1027180	R			
P	1027181	R			
P	1027182	R			
P	1027184	R			

C - CARNEGIE TWP.
R - REID TWP.
M - MAHAFFY TWP.

TOTAL CLAIMS: 63

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 3227 Number of Readings 3227
Station interval 25 m. Line spacing 100 m.
Profile scale 1 cm. = 20%
Contour interval _____

MAGNETIC

Instrument _____
Accuracy -- Scale constant _____
Diurnal correction method _____
Base Station check-in interval (hours) _____
Base Station location and value _____

ELECTROMAGNETIC

Instrument APEX PARAMETRICS MAX MIN II
Coil configuration HORIZONTAL LOOP
Coil separation 150 m.
Accuracy ± .1%
Method: Fixed transmitter Shoot back In line Parallel line
Frequency 444, 1777 Hz.
(specify V.L.F. station)
Parameters measured IN-PHASE AND QUADRATURE COMPONENTS OF SECONDARY FIELD AS PERCENT OF 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 _____



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) GEOPHYSICS
Township or Area REID - MAHAFFY TWPS.
Claim Holder(s) COMSTATE RESOURCES LTD.
Suite 901, 1015 4th St. S.W., Calgary, Alberta
Survey Company TIMMINS GEOPHYSICS LTD. T1R 1J4
Author of Report D. LONDRY
Address of Author P.O. BOX 1783, SOUTH PORCUPINE, Ontario
Covering Dates of Survey Nov. 1/88 - Mar. 9/89 PON 1H0
(linecutting to office)
Total Miles of Line Cut 219.5 km.

MINING CLAIMS TRAVERSED
List numerically

(SEE ATTACHED LIST)

(prefix)

(number)

If space insufficient, attach list

SPECIAL PROVISIONS
CREDITS REQUESTED

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

ENTER 20 days for each additional survey using same grid.

Geophysical

DAYS
per claim

-Electromagnetic _____

-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: Mar. 9, 1989 SIGNATURE: *Douglas Londry*
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS _____

LIST OF CLAIMS

P 952102 R	P 1027169 R	P 1029153 M
P 952103 R	P 1027170 R	P 1029154 M
P 952104 R	P 1027171 R	P 1029704 M
P 952105 R	P 1027172 R	P 1029705 M
P 952110 R	P 1027173 R	P 1029706 M
P 952111 R	P 1027174 R	P 1029707 M
P 952112 R	P 1027175 R	P 1029708 M
P 996492 R	P 1027176 R	P 1029709 M
P 996493 R	P 1027177 R	P 1029710 M
P 996494 R	P 1027178 R	P 1029711 M
P 996813 R	P 1027179 R	P 1029722 M
P 997442 R	P 1027180 R	P 1029723 M
P 997443 R	P 1027181 R	P 1029724 M
P 997444 R	P 1027182 R	P 1029725 M
P 997445 R	P 1027183 R	P 1029726 M
P 997446 R	P 1027184 R	P 1030055 M
P 1027138 M	P 1027185 R	P 1030056 M
P 1027139 M	P 1027186 R	P 1030057 M
P 1027140 R	P 1027187 M	P 1030058 M
P 1027141 R	P 1029115 M	P 1030059 M
P 1027142 R	P 1029116 M	P 1030060 M
P 1027143 R	P 1029117 M	P 1030061 M
P 1027144 R	P 1029118 M	P 1030062 M
P 1027145 R	P 1029119 M	P 1030063 M
P 1027146 R	P 1029120 M	P 1030064 M
P 1027147 R	P 1029121 M	P 1030065 M
P 1027148 R	P 1029122 M	P 1030066 M
P 1027149 R	P 1029123 M	P 1030067 M
P 1027150 R	P 1029124 M	P 1030068 M
P 1027151 R	P 1029140 M	P 1030071 M
P 1027152 R	P 1029145 M	P 1030072 M
P 1027153 R	P 1029147 M	P 1030073 M
P 1027163 M	P 1029148 M	P 1030074 M
P 1027164 M	P 1029149 M	P 1030077 M
P 1027165 M	P 1029150 M	P 1030078 M
P 1027166 M	P 1029151 M	P 1030079 M
P 1027167 M	P 1029152 M	P 1030080 M
P 1027168 M		

R - REID TOWNSHIP

TOTAL NO. OF CLAIMS = 112

M - MAHAFFY TOWNSHIP

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 7360 Number of Readings 14720
Station interval 12.5 m. Line spacing 100 m.
Profile scale _____
Contour interval 50 gammas

MAGNETIC

Instrument SCINTREX IGS -2/MP-4
Accuracy - Scale constant ± .1 gamma
Diurnal correction method SCINTREX MP-3 BASE STATION MAGNETOMETER
Base Station check-in interval (hours) 30 SECONDS
Base Station location and value 1200 S 0+50E
58795 gammas

ELECTROMAGNETIC

Instrument _____
Coil configuration _____
Coil separation _____
Accuracy _____
Method: Fixed transmitter Shoot back In line Parallel line
Frequency _____
(specify V.L.F. station)
Parameters measured _____

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 _____

APPENDIX B

DECEMBER 1988

MAHAFFY TOWNSHIP

1027138-1027139

1027163-1027168

1027187

1029115-1029124

1029140

1029145

1029147-1029154

1029704-1029711

1029722-1029726

1030055-1030068

1030071-1030074

1030077-1030080

REID TOWNSHIP

952102-952105

952110-952112

996492-996494

996813

997442-997446

1027140-1027153

1027169-1027186

FEBRUARY 1988

REID TOWNSHIP

952100-952101

952106-952109

952113-952126

CARNEGIE TOWNSHIP

952096-952099

NOVEMBER 1987

REID TOWNSHIP

952127-952147

981685-981689

997441

1026841-1026842

2.12272



900

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

July 12, 1989

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

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

Telephone: (416) 965-4888

Your file: W8906-180,194
Our file: 2.12272

Dear Sir:

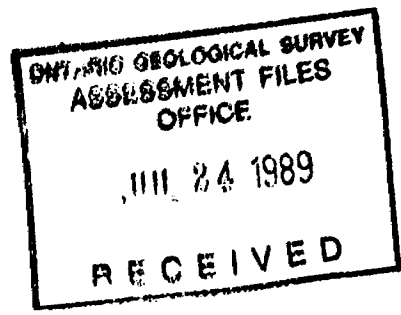
Re: Notice of Intent dated June 7, 1989 Geophysical (Electromagnetic) Survey
submitted on Mining Claims P 952097 et al in Mahaffy Township.

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:eb
Enclosure



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

Resident Geologist
Timmins, Ontario

Comstate Resources Ltd.
901-1015 4th Street S.W.
Calgary, Alberta
T1R 1J4

D. Londry
P.O. Box 1783
South Poucupine, Ontario
PON 1H0



Recorded Holder COMSTATE RESOURCES LTD.
Township or Area MAHAFFY TOWNSHIP.

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic <u>14</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 checked="" 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 1030057 to 64 incl.

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

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 or Area
REID TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic <u>20</u> days	P 952097 to 99 incl. 3
Magnetometer _____ days	952102-03 2
Radiometric _____ days	952116-17 1
Induced polarization _____ days	1027140 to 45 incl. 6
Other _____ days	1027164 to 66 incl. 3
Section 77 (19) See "Mining Claims Assessed" column	1027172 to 77 incl. 6
Geological _____ days	1027184 to 86 incl. 3
Geochemical _____ days	1029117 1
Man days <input type="checkbox"/> Airborne <input type="checkbox"/>	1029119 to 24 incl. 5
Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/>	1029147 to 52 incl. 6
<input type="checkbox"/> Credits have been reduced because of partial coverage of claims.	1029154 1
<input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	1029704 to 06 incl. 3
	1029726 1

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

15 days Electromagnetic	10 days Electromagnetic	5 days Electromagnetic
P 952096	P 952118 ✓	P 997443 ✓ 1029707
952119 ✓	997444 ✓	1027169 1029722
1027170	1029118	1027180 to 82 incl.
1027179	1029145	1029115-16 1029725
	1029708	1029146

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

LIST OF CLAIMS

P 952096 C
P 952097 C
P 952098 C
P 952099 C
P 952102 R
P 952103 R
P 952116 R
P 952117 R
P 952118 R
P 952119 R
P 997443 R
P 997444 R
P 1027140 R
P 1027141 R
P 1027142 R
P 1027143 R
P 1027144 R
P 1027145 R
P 1027164 M
P 1027165 M
P 1027166 M
P 1027169 R
P 1027170 R
P 1027172 R
P 1027173 R
P 1027174 R
P 1027175 R
P 1027176 R
P 1027177 R
P 1027179 R
P 1027180 R
P 1027181 R
P 1027182 R
P 1027184 R

P 1027185 R
P 1027186 R
P 1029115 M
P 1029116 M
P 1029117 M
P 1029118 M
P 1029119 M
P 1029120 M
P 1029121 M
P 1029122 M
P 1029123 M
P 1029124 M
P 1029145 M
P 1029146 M
P 1029147 M
P 1029148 M
P 1029149 M
P 1029150 M
P 1029151 M
P 1029152 M
P 1029154 M
P 1029704 M
P 1029705 M
P 1029706 M
P 1029707 M
P 1029708 M
P 1029722 M
P 1029725 M
P 1029726 M

C - CARNEGIE TWP.
R - REID TWP.
M - MAHAFFY TWP.

TOTAL CLAIMS: 63

FOR DOOR USE ONLY
RECEIVED
MAR 2 1939
4:10PM BS

DOCUMENT No. W 8906.194

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.

May 18th

Mining Act

Type of Survey(s) **GEOPHYSICS** 22272 Township or Area **MAHAFFY TOWNSHIP**

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

Address **Suite 901, 1015 4th St. S.W., Calgary, Alberta T2R 1J4**

Survey Company **TIMMINS GEOPHYSICS LTD.** Date of Survey (from & to) **02 | 12 | 88** to **20 | 02 | 89** Total Miles of line Cut **5.6 km.**

Name and Address of Author (of Geo-Technical report) **D. Londry, P.O. Box 1783, South Porcupine, Ont. P0N 1H0**

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	
	- Radiometric	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	
	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	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
			P	1030057	
				1030058	
				1030059	
				1030060	
				1030061	
				1030062	
				1030063	
				1030064	

RECORDED
MAR 29 1989

RECEIVED
APR 3 1989
MINING LANDS SECTION

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 **160**

Days Recorded **MAR. 29/89**

Days Approved at Recorded

Total number of mining claims covered by this report of work **8**

Date **2-27-89** Claim Holder's Agent (Signature) *[Signature]*

Certify that I have read and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work on the same during and after its completion and the annexed report is true

Mining Recorder *[Signature]*
See several work statements

Name and Address of Person Certifying **MAR 20 1989**

Mining Act 2,12272

April 21

Type of Survey(s) GEOPHYSICS		Township or Area REID TOWNSHIP	
Claim Holder(s) COMSTATE RESOURCES LTD.		Prospector's Licence No. T-1127	
Address Suite 901, 1015 4th St. S.W., Calgary, Alberta T2R 1J4			
Survey Company TIMMINS GEOPHYSICS LTD.		Date of Survey (from & to) 02 12 88 20 02 89 Day Mo. Yr. Day Mo. Yr.	Total Miles of line Cut 140 km.
Name and Address of Author (of Geo-Technical report) D. Londry, P.O.Box 1783, South Porcupine, Ontario PON 1H0			

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	
	- Magnetometer	40
	- Radiometric	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	
	Geochemical	
	Geophysical	
	Geophysical	
Man Days Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
Airborne Credits	Geological	
	Geochemical	
	Geophysical	
Note: Special provisions credits do not apply	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)			
Prefix	Mining Claim Number	Expend. Days Cr.	Expend. Days Cr.
SEE ATTACHED LIST			
RECORDED MAR - 2 1989			

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.

Total number of mining claims covered by this report of work. **70**

Date **MAR. 2/89** Recorded Holder or Agent Signature *D. Londry*

For Office Use Only

Total Days Cr. Recorded **2760** Date Recorded **MAR. 2/89** Date Approved by the Chief *13 July 89 D.R.*

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. LONDRY, P.O. BOX 1783, SOUTH PORCUPINE, Ontario PON 1H0

Date Certified **MAR. 2/89** Certified by (Signature) *D. Londry*

LIST OF CLAIMS

P 996492 R	P 1027153 R	P 1027185 R
P 996493 R	P 1027163 M	P 1027186 R
P 996494 R	P 1027164 M	P 1029115 M
<i>Dec. 5/33</i> → P 996813 R	P 1027165 M	P 1029116 M
P 997442 R	P 1027166 M	P 1029117 M
P 997443 R	P 1027167 M	P 1029118 M
P 997444 R	P 1027168 M	P 1029119 M
P 997445 R	P 1027169 R	P 1029120 M
P 997446 R	P 1027170 R	P 1029121 M
P 1027138 M	P 1027171 R	P 1029122 M
P 1027139 M	P 1027172 R	P 1029123 M
P 1027140 R	P 1027173 R	P 1029124 M
P 1027141 R	P 1027174 R	P 1029140 MX
P 1027142 R	P 1027175 R	P 1029145 M
P 1027143 R	P 1027176 R	P 1029147 M
P 1027144 R	P 1027177 R	P 1029148 M
P 1027145 R	P 1027178 R	P 1029149 M
P 1027146 R	P 1027179 R	P 1029150 M
P 1027147 R	P 1027180 R	P 1029151 M
P 1027148 R	P 1027181 R	P 1029152 M
P 1027149 R	P 1027182 R	P 1029153 M
P 1027150 R	P 1027183 R	P 1029154 M
P 1027151 R	P 1027184 R	P 1030080 M
P 1027152 R		

1029146 D.S.L. 1029146

R - REID TOWNSHIP
M - MAHAFFY TOWNSHIP

TOTAL NO. OF CLAIMS = 70

MAR 2 1989

4:10 PM BB



Ministry of Northern Development and Mines
Ontario

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

DOCUMENT No: *ma 2*
W 8906-022

- 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.

Mining Act

Type of Survey(s): **GEOPHYSICS** *2.12272* Township or Area: **MAHAFFY TWP.**
 Claim Holder(s): **COMSTATE RESOURCES LTD.** Prospector's Licence No.: **T-1127**
 Address: **Suite 901, 1015 4th St. S.W. CALGARY, ALBERTA T2R 1S4**
 Survey Company: **TIMMINS GEOPHYSICS LTD.** Date of Survey (from & to): **02 Day 12 Mo. 88** to **03 Day 01 Mo. 89** Total Miles of line Cut: **79.2 Km.**
 Name and Address of Author (of Geo-Technical report): **D. LONDREY, P.O. Box 1783, 111 Bruce Ave., South Porcupine, ONT. P4N1H0**

Credits Requested per Each Claim in Columns at right

Special Provisions For first survey: Enter 40 days. (This includes line cutting) For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical	Days per Claim
	- Electromagnetic - Magnetometer - Radiometric - Other	40
Man Days Complete reverse side and enter total JAN 2 1989 RECEIVED MINING LANDS SECTION	Geophysical	Days per Claim
	- Electromagnetic - Magnetometer - Radiometric - Other Geological Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Geophysical	Days per Claim
	- Electromagnetic - Magnetometer - Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
P	952102		P	1030057	
	952103			1030058	
	952104			1030059	
	952105			1030060	
	952110			1030061	
	952111			1030062	
	952112			1030063	
	1027187			1030064	
	1029704			1030065	
	1029705			1030066	
	1029706			1030067	
	1029707			1030068	
	1029708			1030071	
	1029709			1030072	
	1029710			1030073	
	1029711			1030074	
	1029722			1030077	
	1029723			1030078	
	1029724			1030079	
	1029725				
	1029726				
	1030055				
	1030056				

Expenditures (excludes pay tripping)
 Type of Expenditure: **RECEIVED**
 Period covered on Claim(s): **JAN 12 1989**
 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
1030080 not on this report see letter attached
 JAN 12 1989
 Total number of mining claims covered by this report of work: **43**

For Office Use Only
 Total Days Cr. Recorded: **1720** Date Recorded: **Jan 12/89** Mining Reporter: *[Signature]*
 Date Approved as Reported: **13 July 89** *[Signature]*

Date: **JAN. 5/89** Recorded Holder 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: **Douglas Londrey, P.O. Box 1783, South Porcupine, Ont., P4N1H0**
 Date Certified: **JAN. 5/89** Certified by (Signature): *[Signature]*



Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

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

Telephone: (416) 965-4888

January 3, 1990

Your File: W8906-193
W8906-022
Our File: 2.12272

Gary White
Mining Recorder
54 Wilson Ave.
Timmins, Ontario
P4N 2S6

Dear Gary:

Subject: Mining Claim P 1030080, Mahaffy Township,
Porcupine Mining Division.

A review of these documents has been completed. The above claim appears on Reports of Work W8906-022 and W8906-193. Both reports are for a magnetometer survey and request 40 days assessment credit per claim for a magnetometer survey.

Both Reports of Work were approved. Mining Claim P 1030080 appears on both Reports of Work, and consequently has two approvals of 40 days each for the same magnetometer survey. It appears that the "Recorded" stamp was placed over the number P 1030080 on Report of Work W8906-022.

Based on our discussions (White/Pyke) (Kite/White), and a review of the subject documents I am satisfied that the holder, agent and those associated with the filing of these documents acted in good faith and for no improper purpose.

You are requested to remove the entry for the magnetometer survey, Report of Work W8906-022, from the record sheet for mining claim P 1030080.

Yours sincerely,

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

BK:eb



DOCUMENT No. **W 8906-193**

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.

May 18th

Mining Act

Type of Survey(s) GEOPHYSICS	Township or Area REID TOWNSHIP
Claim Holder(s) COMSTATE RESOURCES LTD.	Prospector's Licence No. T-1127
Address Suite 901, 1015 4th St. S.W., Calgary, Alberta T2R 1J4	
Survey Company TIMMINS GEOPHYSICS LTD.	Date of Survey (from & to) 02, 12, 88 20, 02, 89
Total Miles of line Cut 2.2 km.	
Name and Address of Author (of Geo-Technical report) D. Londry, P.O. Box 1783, South Porcupine, Ont. PON 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	40
	Magnetometer	
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 Number	Expend. Days Cr.
P	1029751	

RECORDED
MAR 29 1989

RECEIVED
APR 3 1989
MINING LANDS SECTION

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures **S** ÷ **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.

Total number of mining claims covered by this report of work **1**

Date **MAR 29/89** Holder or Agent Signature *D. Londry*

For Office Use Only

Total Days Cr. Recorded **40** Date Recorded **MAR 29/89** Mining Recorder *[Signature]*

Date Approved as Recorded **13 July 89** *[Signature]*

Report of Work

I hereby certify that I have read the Report of Work and the annexed report is true

Name and Postal Address of Person Certifying **D. Londry, P.O. Box 1783, South Porcupine, Ont. PON 1H0**

Date Certified **MAR 29/89** Certified by (Signature) *D. Londry*

RECEIVED
MAR 29 1989
@ 11:45 am LHM



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) GEOPHYSICS
Township or Area REID - MAHAFFY TWPS.
Claim Holder(s) COMSTATE RESOURCES LTD.
Suite 901, 1015 4th St. W.W., Calgary, Alb.
Survey Company TIMMINS GEOPHYSICS LTD.
Author of Report D. LONDRY
Address of Author P.O. BOX 1783, SOUTH PORCUPINE, Ont.
Covering Dates of Survey Nov. 1/88 - Mar. 9/89
Total Miles of Line Cut 219.5 km.

MINING CLAIMS TRAVERSED
List numerically

(SEE ATTACHED LIST)

(prefix) (number)

Table with columns: SPECIAL PROVISIONS CREDITS REQUESTED, Geophysical, DAYS per claim. Includes entries for Electromagnetic (20), Magnetometer, Radiometric, Other, Geological, and Geochemical.

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

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

DATE: Mar. 9, 1989 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 _____

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 3227 Number of Readings 3227
Station interval 25 m. Line spacing 100 m.
Profile scale 1 cm. = 20%
Contour interval

MAGNETIC

Instrument
Accuracy - Scale constant
Diurnal correction method
Base Station check-in interval (hours)
Base Station location and value

ELECTROMAGNETIC

Instrument APEX PARAMETRICS MAX MIN II
Coil configuration HORIZONTAL LOOP
Coil separation 150 m.
Accuracy +/- .1%
Method: [] Fixed transmitter [] Shoot back [] In line [] Parallel line
Frequency 444, 1777 Hz. (specify V.L.F. station)
Parameters measured IN-PHASE AND QUADRATURE COMPONENTS OF SECONDARY FIELD AS PERCENT OF 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

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 _____

LIST OF CLAIMS

P	952096	C	P	1027185	R
P	952097	C	P	1027186	R
P	952098	C	P	1029115	M
P	952099	C	P	1029116	M
P	952102	R	P	1029117	M
P	952103	R	P	1029118	M
P	952116	R	P	1029119	M
P	952117	R	P	1029120	M
P	952118	R	P	1029121	M
P	952119	R	P	1029122	M
P	997443	R	P	1029123	M
P	997444	R	P	1029124	M
P	1027140	R	P	1029145	M
P	1027141	R	P	1029146	M
P	1027142	R	P	1029147	M
P	1027143	R	P	1029148	M
P	1027144	R	P	1029149	M
P	1027145	R	P	1029150	M
P	1027164	M	P	1029151	M
P	1027165	M	P	1029152	M
P	1027166	M	P	1029154	M
P	1027169	R	P	1029704	M
P	1027170	R	P	1029705	M
P	1027172	R	P	1029706	M
P	1027173	R	P	1029707	M
P	1027174	R	P	1029708	M
P	1027175	R	P	1029722	M
P	1027176	R	P	1029725	M
P	1027177	R	P	1029726	M
P	1027179	R			
P	1027180	R			
P	1027181	R			
P	1027182	R			
P	1027184	R			

C - CARNEGIE TWP.

R - REID TWP.

M - MAHAFFY TWP.

TOTAL CLAIMS: 63



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) GEOPHYSICS
Township or Area REID - MAHAFFY TWPS.
Claim Holder(s) COMSTATE RESOURCES LTD.
Suite 901, 1015 4th St. S.W., Calgary, Alberta
Survey Company TIMMINS GEOPHYSICS LTD. T1R 1J4
Author of Report D. LONDREY
Address of Author P.O. BOX 1783, SOUTH PORCUPINE, Ontario
Covering Dates of Survey Nov. 1/88 - Mar. 9/89 PON 1H0
(linecutting to office)
Total Miles of Line Cut 219.5 km.

MINING CLAIMS TRAVERSED
List numerically

(SEE ATTACHED LIST)

(prefix) (number)

SPECIAL PROVISIONS
CREDITS REQUESTED

DAYS per claim

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

ENTER 20 days for each additional survey using same grid.

- Geophysical
-Electromagnetic 40
-Magnetometer
-Radiometric
-Other
Geological
Geochemical

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

Magnetometer Electromagnetic Radiometric
(enter days per claim)

DATE: Mar. 9, 1989 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. Qualifications 2.2289

Previous Surveys

Table with 4 columns: File No., Type, Date, Claim Holder

TOTAL CLAIMS _____

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 7360 Number of Readings 14720
Station interval 12.5 m. Line spacing 100 m.
Profile scale _____
Contour interval 50 gammas

MAGNETIC

Instrument SCINTREX IGS -2/MP-4
Accuracy – Scale constant ± .1 gamma
Diurnal correction method SCINTREX MP-3 BASE STATION MAGNETOMETER
Base Station check-in interval (hours) 30 SECONDS
Base Station location and value 1200 S 0+50E
58795 gammas

ELECTROMAGNETIC

Instrument _____
Coil configuration _____
Coil separation _____
Accuracy _____
Method: Fixed transmitter Shoot back In line Parallel line
Frequency _____
(specify V.L.F. station)
Parameters measured _____

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 _____

LIST OF CLAIMS

3

P 952102 R ✓	P 1027169 R ✓	P 1029153 M ✓
P 952103 R ✓	P 1027170 R ✓	P 1029154 M ✓
P 952104 R ✓	P 1027171 R ✓	P 1029704 M ✓
P 952105 R ✓	P 1027172 R ✓	P 1029705 M ✓
P 952110 R ✓	P 1027173 R ✓	P 1029706 M ✓
P 952111 R ✓	P 1027174 R ✓	P 1029707 M ✓
P 952112 R ✓	P 1027175 R ✓	P 1029708 M ✓
P 996492 R ✓	P 1027176 R ✓	P 1029709 M ✓
P 996493 R ✓	P 1027177 R ✓	P 1029710 M ✓
P 996494 R ✓	P 1027178 R ✓	P 1029711 M ✓
P 996813 R ✓	P 1027179 R ✓	P 1029722 M ✓
P 997442 R ✓	P 1027180 R ✓	P 1029723 M ✓
P 997443 R ✓	P 1027181 R ✓	P 1029724 M ✓
P 997444 R ✓	P 1027182 R ✓	P 1029725 M ✓
P 997445 R ✓	P 1027183 R ✓	P 1029726 M ✓
P 997446 R ✓	P 1027184 R ✓	P 1030055 M ✓
P 1027138 M ✓	P 1027185 R ✓	P 1030056 M ✓
P 1027139 M ✓	P 1027186 R ✓	P 1030057 M ✓
P 1027140 R ✓	P 1027187 M ✓	P 1030058 M ✓
P 1027141 R ✓	P 1029115 M ✓	P 1030059 M ✓
P 1027142 R ✓	P 1029116 M ✓	P 1030060 M ✓
P 1027143 R ✓	P 1029117 M ✓	P 1030061 M ✓
P 1027144 R ✓	P 1029118 M ✓	P 1030062 M ✓
P 1027145 R ✓	P 1029119 M ✓	P 1030063 M ✓
P 1027146 R ✓	P 1029120 M ✓	P 1030064 M ✓
P 1027147 R ✓	P 1029121 M ✓	P 1030065 M ✓
P 1027148 R ✓	P 1029122 M ✓	P 1030066 M ✓
P 1027149 R ✓	P 1029123 M ✓	P 1030067 M ✓
P 1027150 R ✓	P 1029124 M ✓	P 1030068 M ✓
P 1027151 R ✓	P 1029140 M ✓	P 1030071 M ✓
P 1027152 R ✓	P 1029145 M ✓	P 1030072 M ✓
P 1027153 R ✓	P 1029147 M ✓	P 1030073 M ✓
P 1027163 M ✓	P 1029148 M ✓	P 1030074 M ✓
P 1027164 M ✓	P 1029149 M ✓	P 1030077 M ✓
P 1027165 M ✓	P 1029150 M ✓	P 1030078 M ✓
P 1027166 M ✓	P 1029151 M ✓	P 1030079 M ✓
P 1027167 M ✓	P 1029152 M ✓	P 1030080 M ✓
P 1027168 M ✓		

R - REID TOWNSHIP

TOTAL NO. OF CLAIMS = 112

M - MAHAFFY TOWNSHIP

Timmins Geophysics Ltd.

P.O. Box 1783
South Porcupine, Ontario
PON 1H0

(705) 235-4592

March 13, 1988

Mr. W. R. Cowan
Manager, Mining Lands Section
Mineral Development and Lands Branch
880 Bay Street
3rd Floor
TORONTO, Ontario
M5S 1Z8

RECEIVED
MAR 20 1988
MINING LANDS SECTION

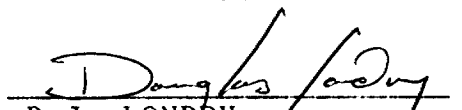
Dear Sir:

Re: Claims in Reid, Mahaffy and Carnegie Townships

Enclosed please find duplicate copies of a report and maps covering claims in Reid, Mahaffy and Carnegie Townships. Three separate Reports of Work have been submitted for these claims. A list of the claim numbers for each Report of Work can be found on a separate page.

Your prompt attention to this matter would be greatly appreciated.

Yours truly,


D.J. LONDY
TIMMINS GEOPHYSICS LTD.

DL/dl
Encls.
cc. D. Pyke

DATE	CLAIM NUMBERS	TOTAL
JAN. 12/89	P 952102 - 952105 inclusive	43
	P 952110 - 952112 inclusive	
	P 1027187	
	P 1029704 - 1029711 inclusive	
	P 1029722 - 1029726	
	P 1030055 - 1030068 inclusive	
	P 1030071 - 1030074 inclusive	
	P 1030077 - 1030080 inclusive	
MAR. 2/89	P 952096 - 952099 inclusive	63
	P 952102 - 952103 inclusive	
	P 952116 - 952119 inclusive	
	P 997443 - 997444 inclusive	
	P 1027140 - 1027145 inclusive	
	P 1027164 - 1027166 inclusive	
	P 1027169 - 1027170 inclusive	
	P 1027172 - 1027177 inclusive	
	P 1027179 - 1027182 inclusive	
	P 1027184 - 1027186 inclusive	
	P 1029115 - 1029124 inclusive	
	P 1029145 - 1029152 inclusive	
	P 1029154	
	P 1029704 - 1029708 inclusive	
	P 1029722	
	P 1029725 - 1029726 inclusive	
MAR. 2/89	P 996492 - 996494 inclusive	70
	P 996813	
	P 997442 - 997446 inclusive	
	P 1027138 - 1027153 inclusive	
	P 1027163 - 1027186 inclusive	
	P 1029115 - 1029124 inclusive	
	P 1029140, 1029145	
	P 1029147 - 1029154 inclusive	
P 1030080		

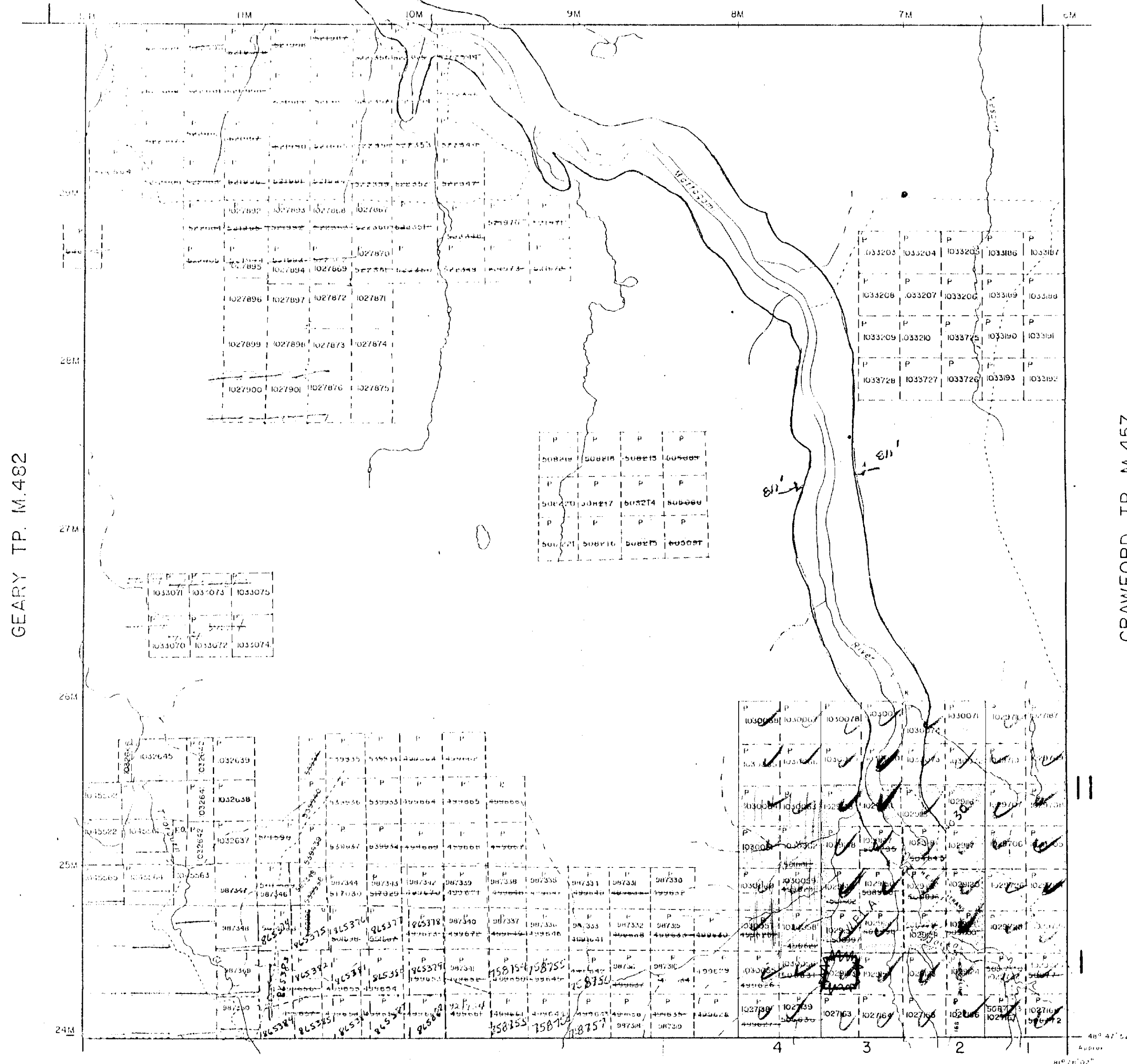
NOTES

40' surface rights to excavation along the shores of all lakes and rivers

Subdivision of this township into lots and concessions is partially annulled July 2, 63

L.O. 7685 Flooding rights in lots 1, 2 and 3, 10-11 H.C.P.C.

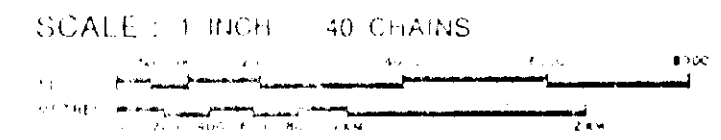
AUBIN TP. M.407



ROADWAY AND RIGHTS	---
OTHER RIGHTS	---
TRAIL	---
RAILROAD LINES	---
TOWNSHIP & RANGE LINES	---
LOTS, MINING CLAIMS, PARCELS, ETC.	---
UNRESERVED LINES	---
LOT LINES	---
PARCEL BOUNDARIES	---
MINING CLAIMS, ETC.	---
RAILWAY AND RIGHT OF WAY	---
UTILITY LINES	---
TRANSFORMER STATION	---
FLOODING OR FLOODING RIGHTS	---
SUBDIVISION	---
ORIGINAL SHORELINE	---
MARSH OR MUSKIEG	---
MINES	---

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
LEASE - SURFACE & MINING RIGHTS	○
SUBLEASE - SURFACE & MINING RIGHTS	○
MINING RIGHTS ONLY	○
LEASE - SURFACE & MINING RIGHTS	○
SURFACE RIGHTS ONLY	○
MINING RIGHTS ONLY	○
LICENSE OF OCCUPATION	○
CROWN LAND SALE	CS
ORDER-IN-COUNCIL	OC
RESERVATION	○
CANCELLED	○
SAND & GRAVEL	○
L.U.P.	●



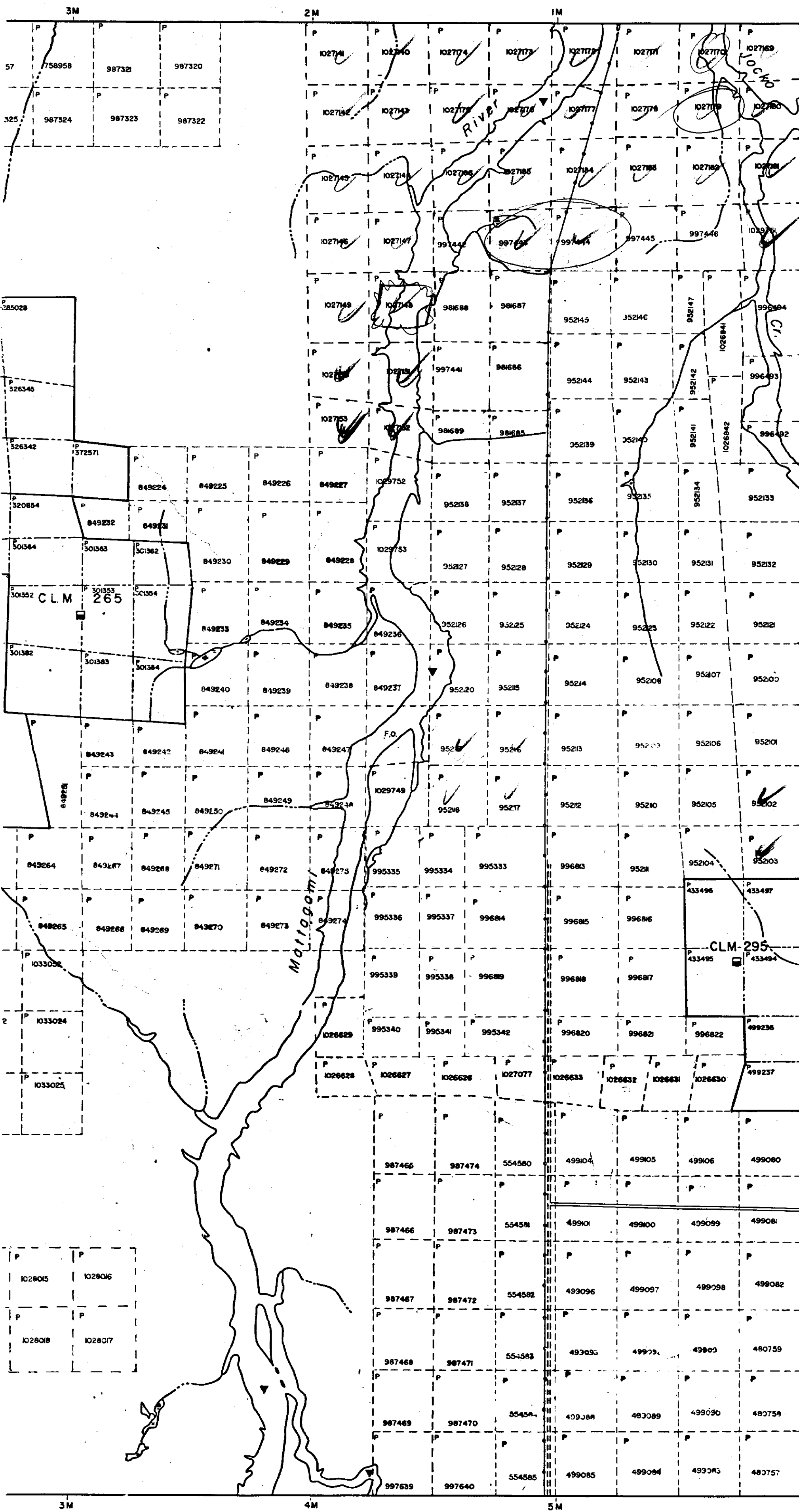
ACRES	HECTARES
40	16

TOWNSHIP
MAHAFFY
 DISTRICT
 COCHRANE DISTRICT 1888
 MINING DIVISION
 PORCUPINE

Revised May 8/93
 Ministry of Natural Resources
 Ontario Survey and Mapping Branch
 Date: MAY 2 1993
 Plan No. **M.540**



HAFFY TOWNSHIP



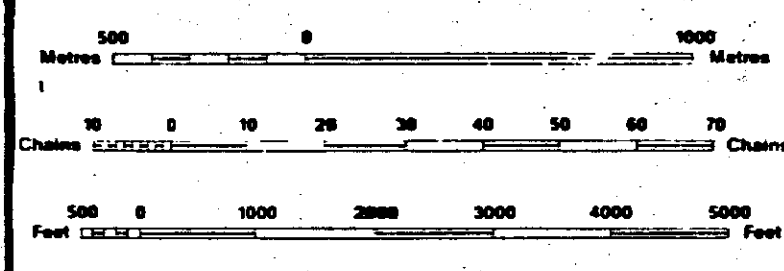
LEGEND

- 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

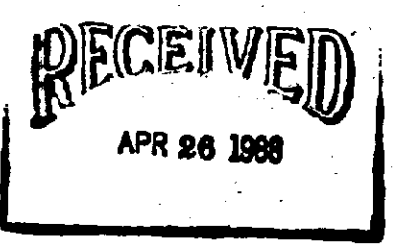
TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	○
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	□
" MINING RIGHTS ONLY	□
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊙
SAND & GRAVEL	⊙

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. 390, SEC. 63, SUBSEC. 1.



SCALE 1:20 000

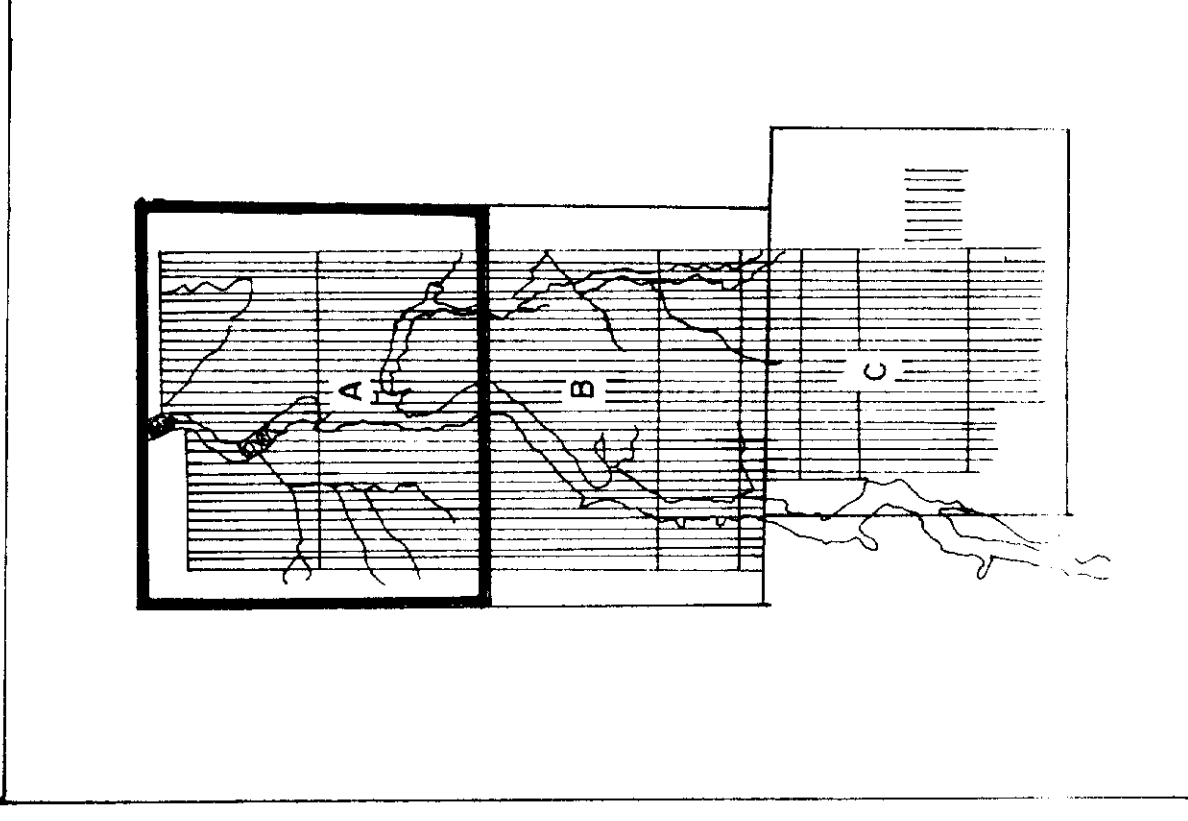
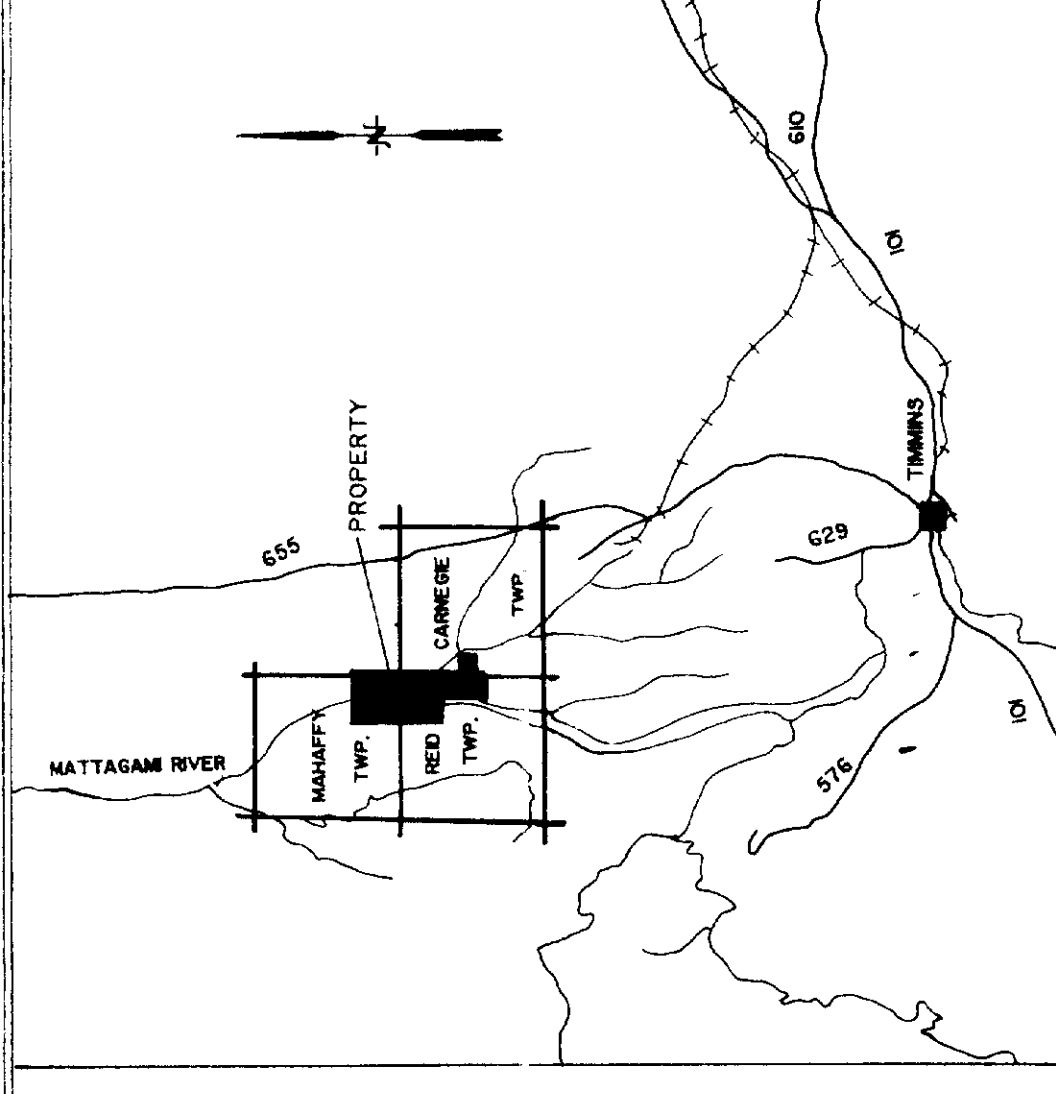
CARNEGIE TOWNSHIP



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

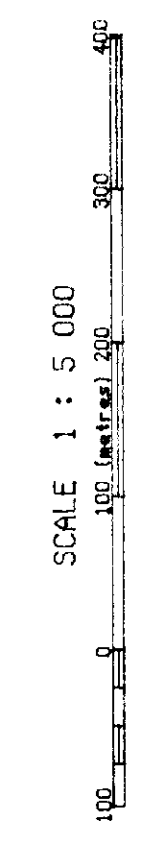
Ministry of Natural Resources Ontario
Ministry of Northern Development and Mines

Date: SEPTEMBER, 1986
Number: **G-3966**



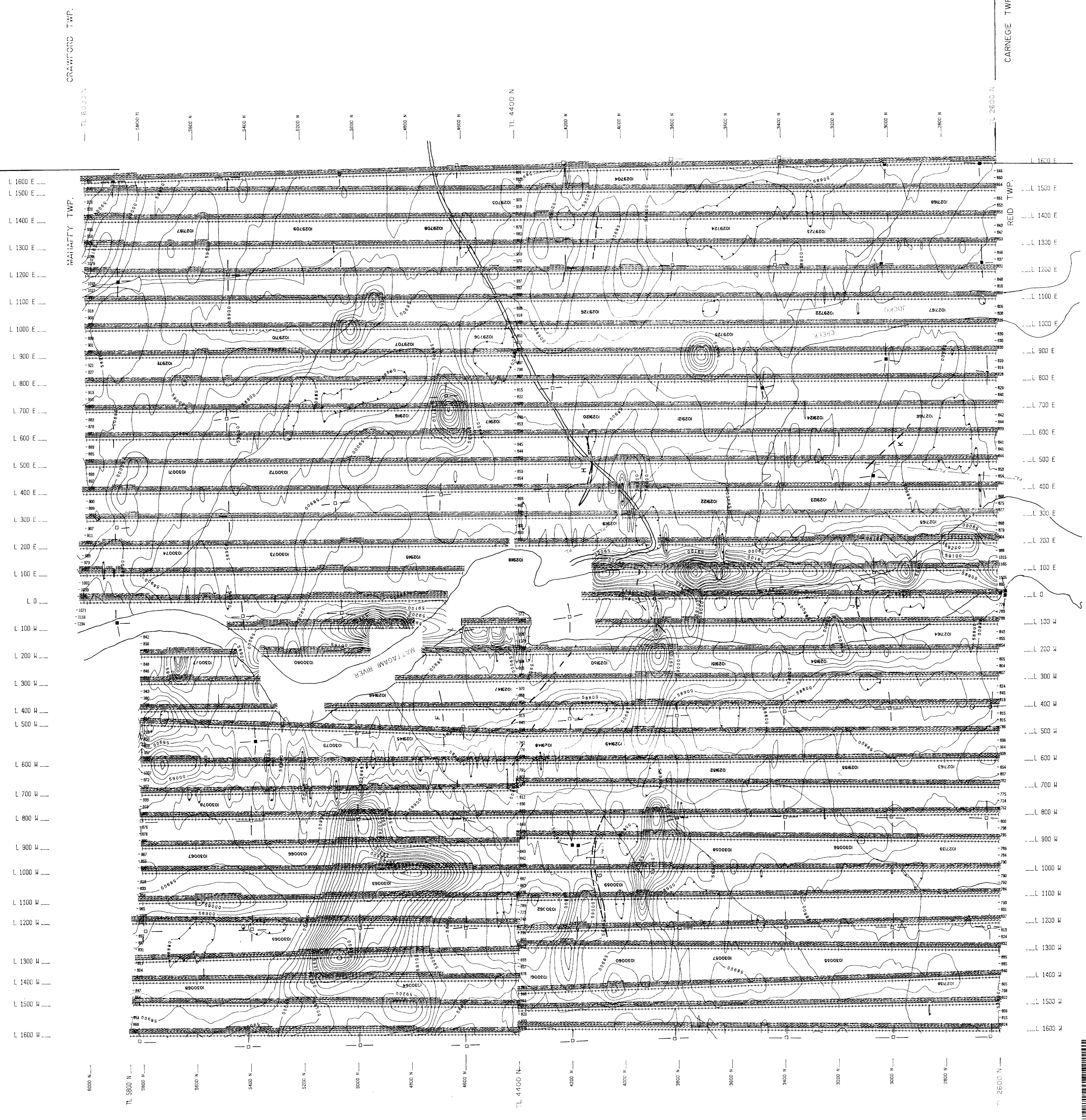
INSTRUMENT : Scintrex IS-27/MF-4
 TYPE : Total Field Friction Precession
 BASE LEVEL : 55,000 M REMNED
 Contour Interval : 50 meters

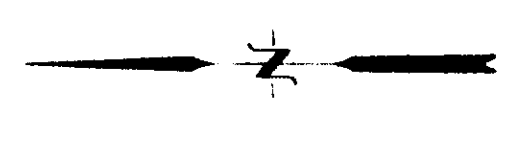
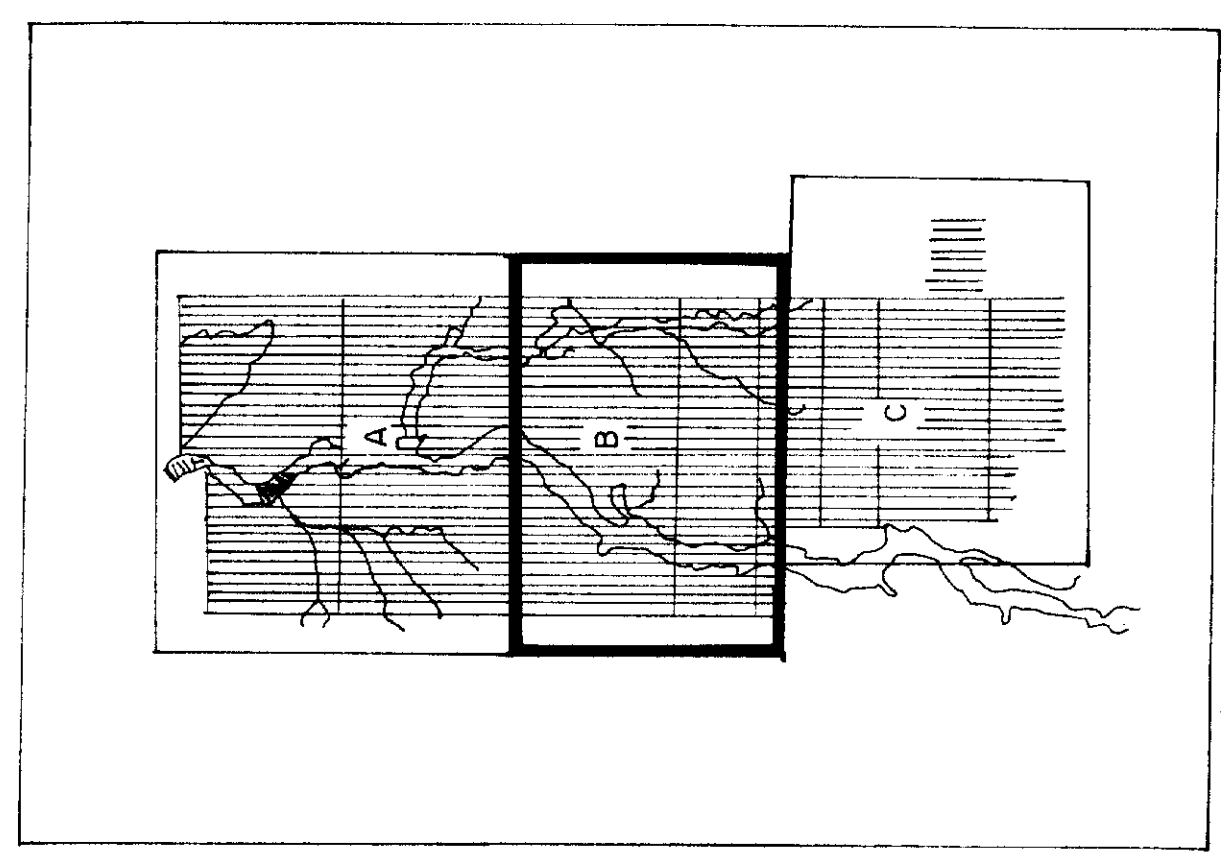
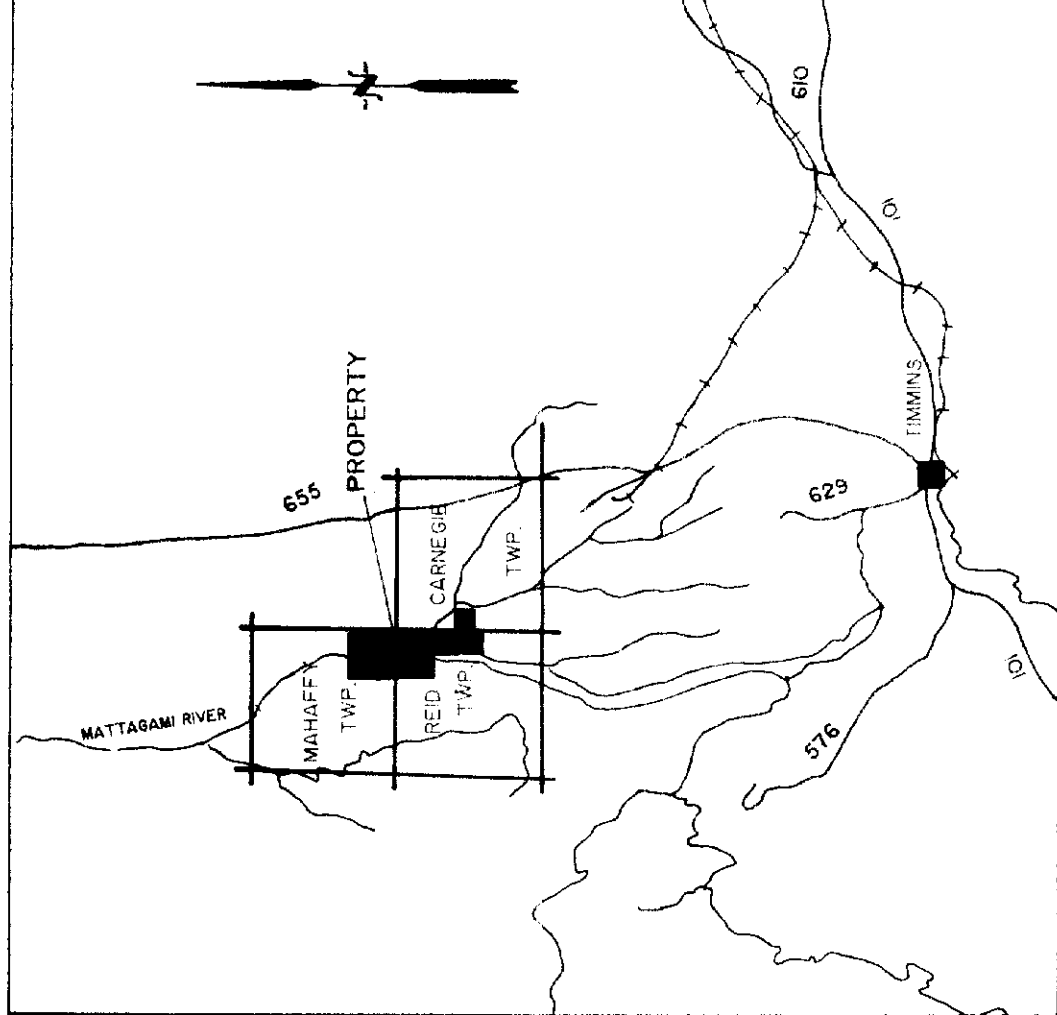
- DDM (APPROXIMATELY)
- FINER LINE
- CLAIM POST (LOCATED)
- CLAIM POST (UNLOCATED)
- EN ANTHROPY (444 MZ.)



2.12272

COMSTATE RESOURCES LTD.
MAGNETIC SURVEY
REID PROPERTY
AREA A
NTS: 4:2-A/14
SCALE: 1:5000
DATE: JANUARY 1989
FILE: REIDMAG
WORK BY: TIMMINS GEOPHYSICS LTD.
PROJ # 6-141





INSTRUMENT : Scintrex 155-Z/MF-4
 Type : Total Field Proton Precession
 BASE LEVEL : 39,000 MSL
 Contour Interval : 50 gamma

- FL --- POWER LINE
- CLAIM POST (LOCATED)
- CLAIM POST (UNLOCATED)
- - - - - EX. BOUNDARY (4444 1/2")
- DD.H. (APPROXIMATE)

2. 12272

SCALE 1 : 5,000

COMSTATE RESOURCES LTD.
 MAGNETIC SURVEY
 REID PROPERTY
 AREA B

NTS: 42-A/14
 SCALE: 1:5000
 FILE: REIDMAG
 WORK BY: TIMMINE GEOPHYSICS LTD.

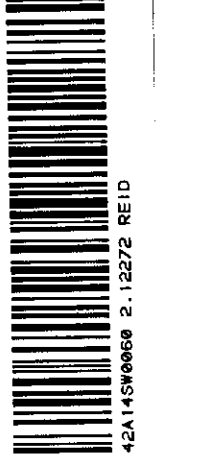
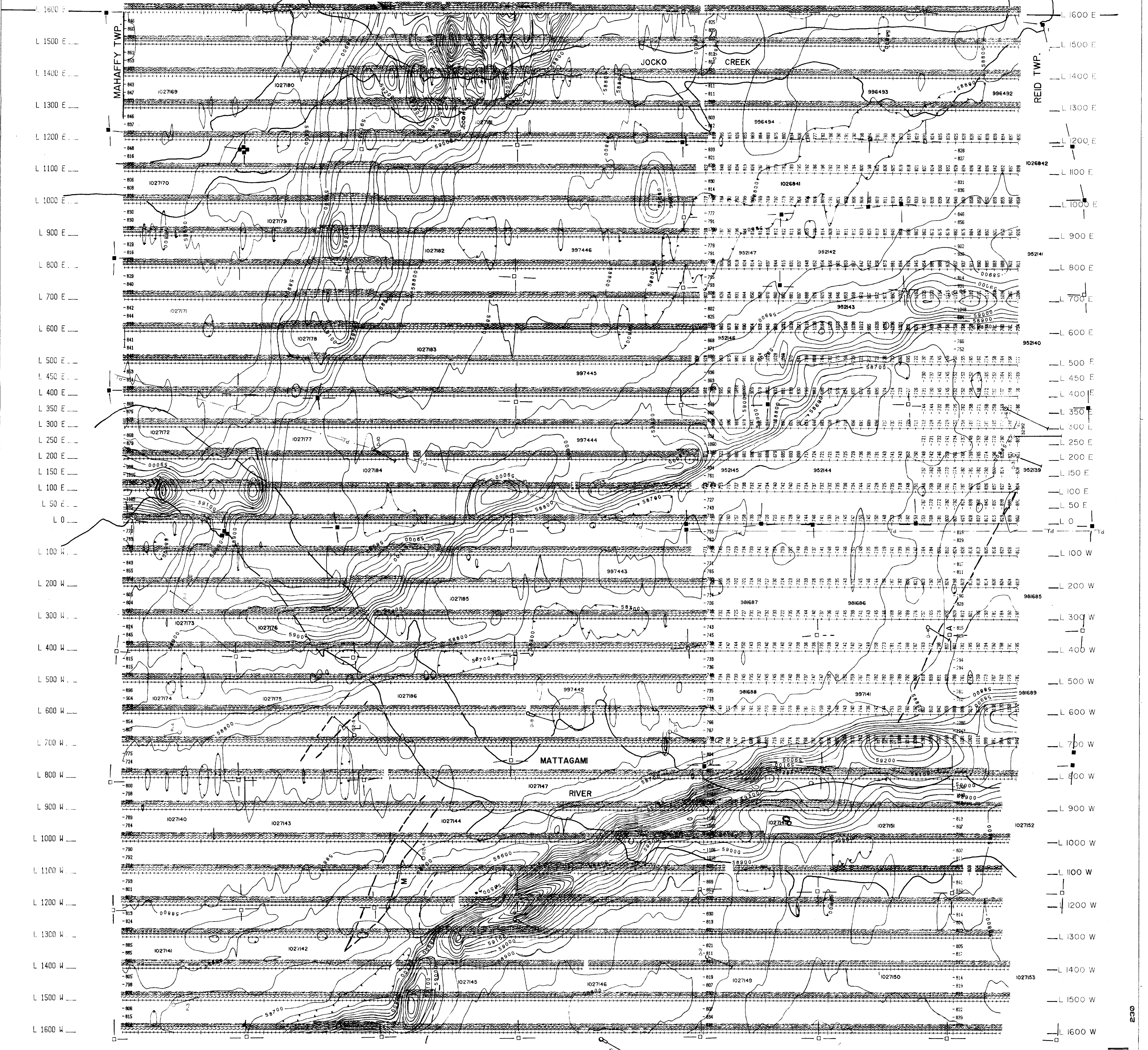
PROJ # 6-141
 DATE: JANUARY 1989

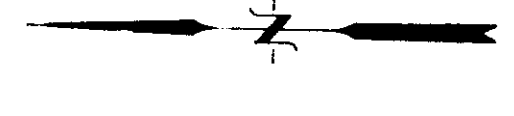
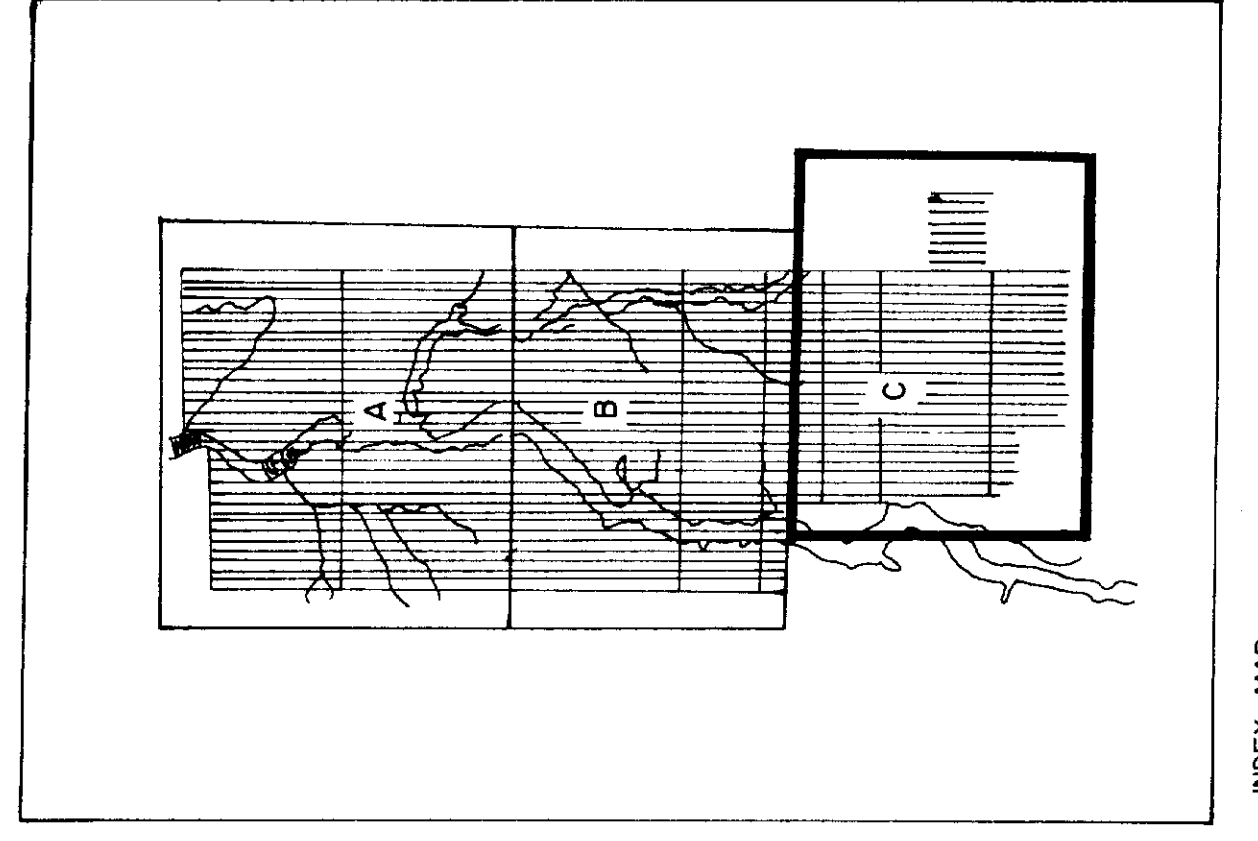
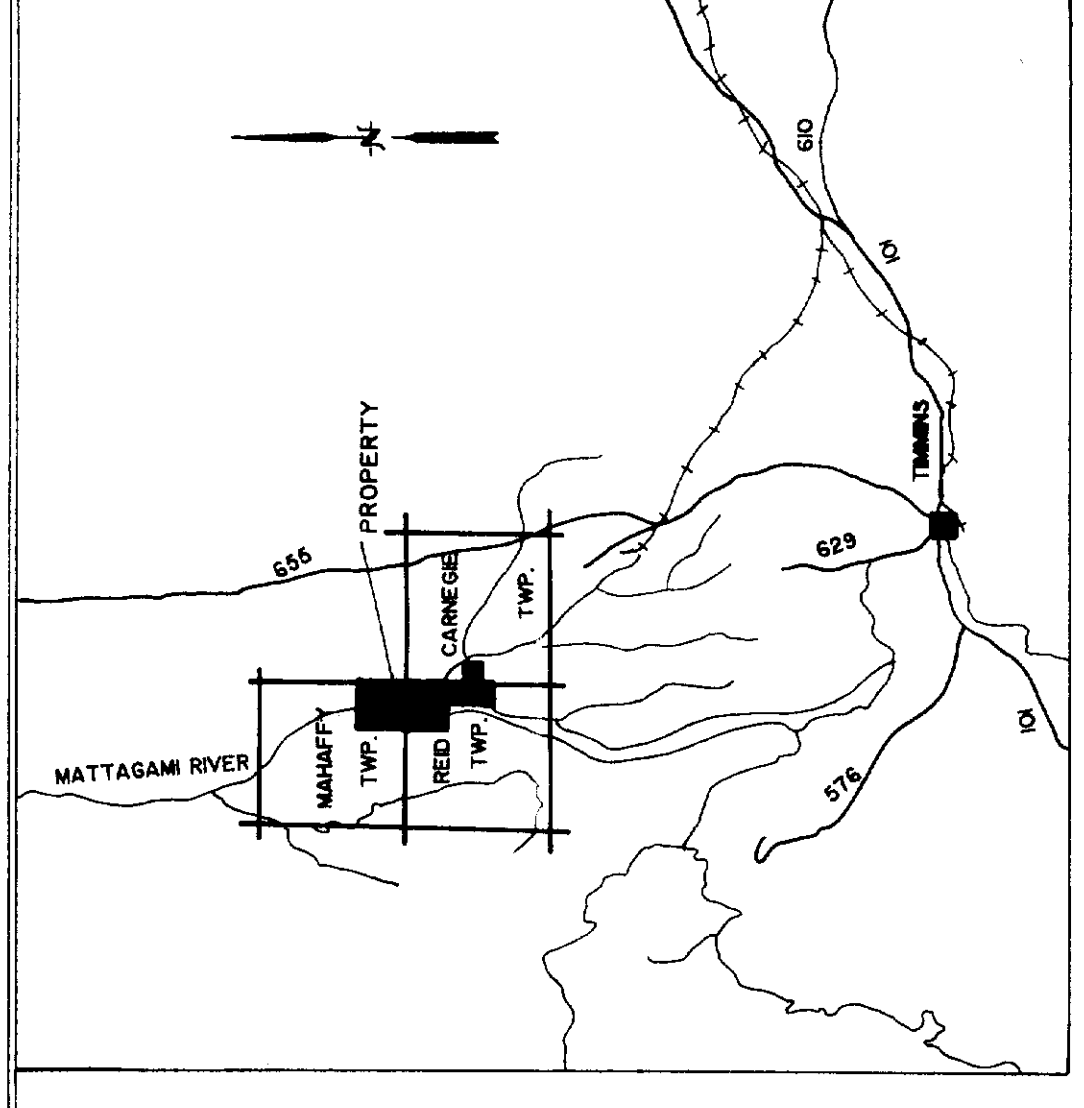
MAHAFFY TWP.

CRAWFORD TWP.

REID TWP.

CARNEGIE TWP.





INSTRUMENT : Sinterrek SS-2/MF-4
 TYPE : Total Field Proton Excursion
 BASE LEVEL : 58,000 M REFM70
 Contour Interval : 50 meters

- DDH (APPROXIMATELY)
- POWER LINE
- CLAIM POST (LOCATED)
- CLAIM POST (UNLOCATED)
- E¹ ANCHALY 1444 H2.
- MAGNETIC BASE STATION

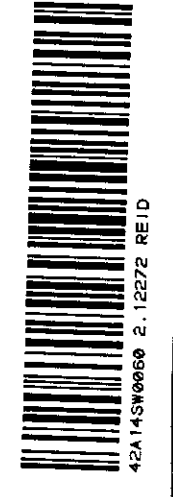
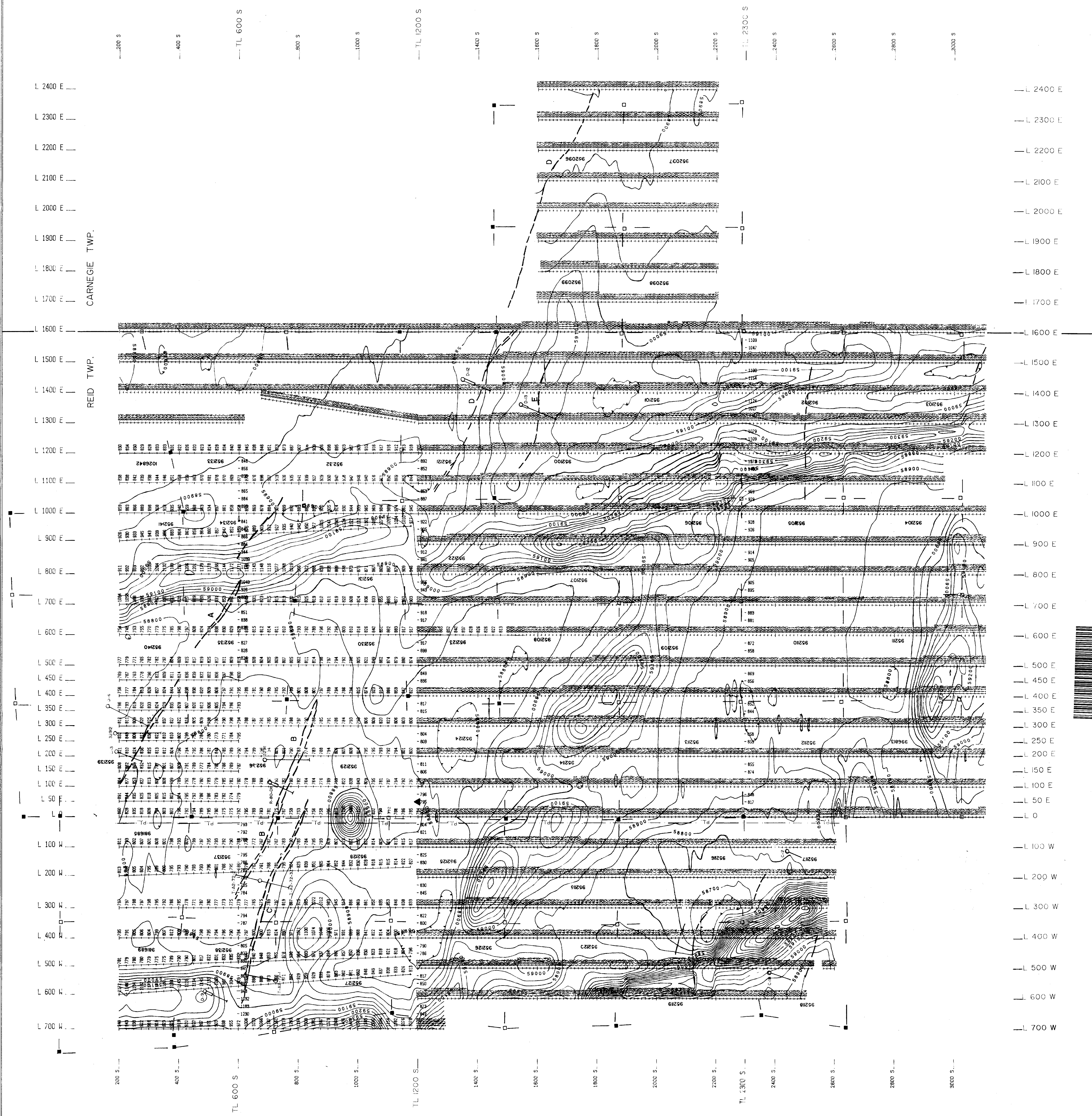
2.12272

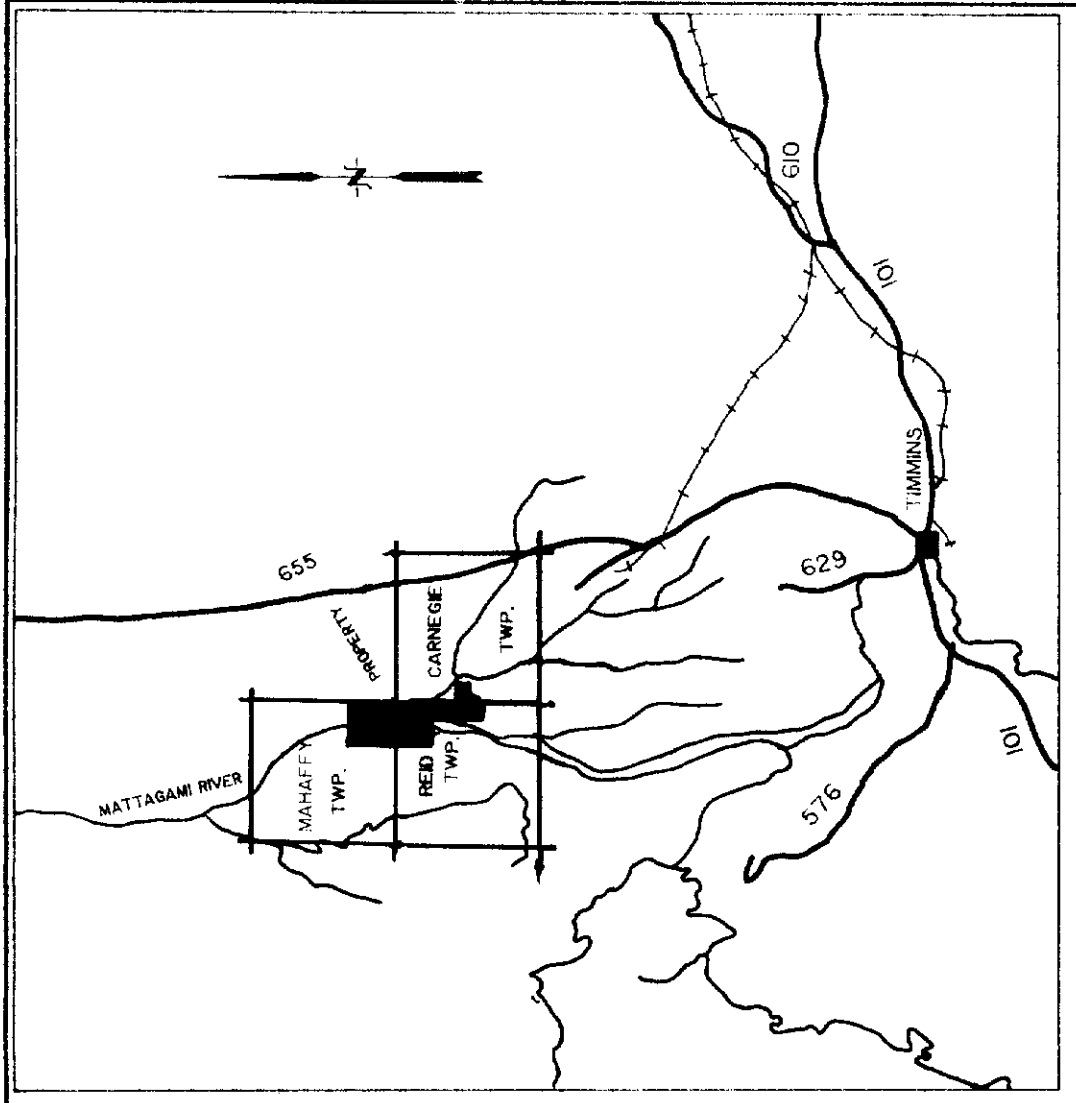
SCALE 1 : 5 000

COMSTATE RESOURCES LTD.
 MAGNETIC SURVEY
 REID PROPERTY
 AREA C

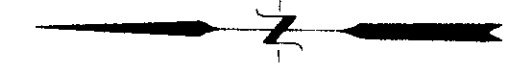
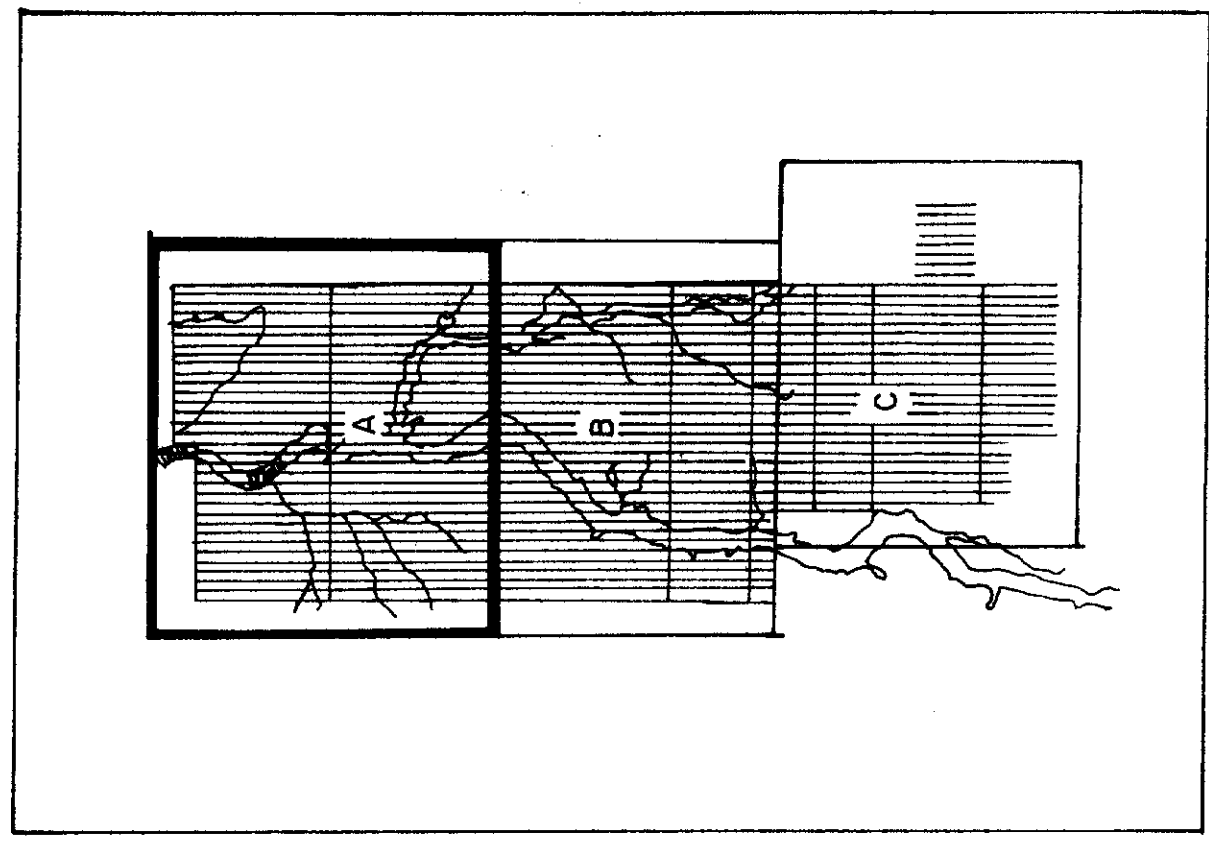
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 SCALE: 1:5000
 FILE: REIDMAG
 WORK BY: TIMMINS GEOPHYSICS LTD.

PROJ # 6-141
 DATE: JANUARY 1989



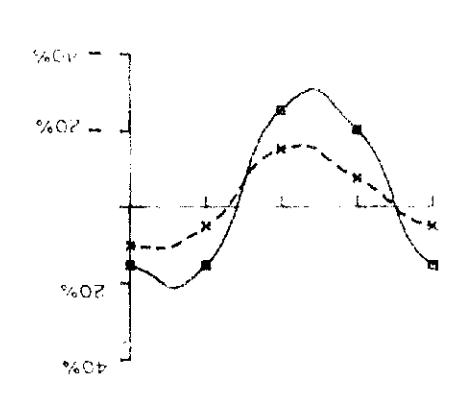


SCALE: 1:50,000



- P.L. — POWER LINE
- CLAMPPOST (used)
- CLAMPPOST (unused)
- ANOMALY A.V.S

Instrument : Apex Parametrics MaxWin I
 Coil Separation : 150 meters
 Frequency : 444 Hz
 Profile Scale : 1cm = 20%

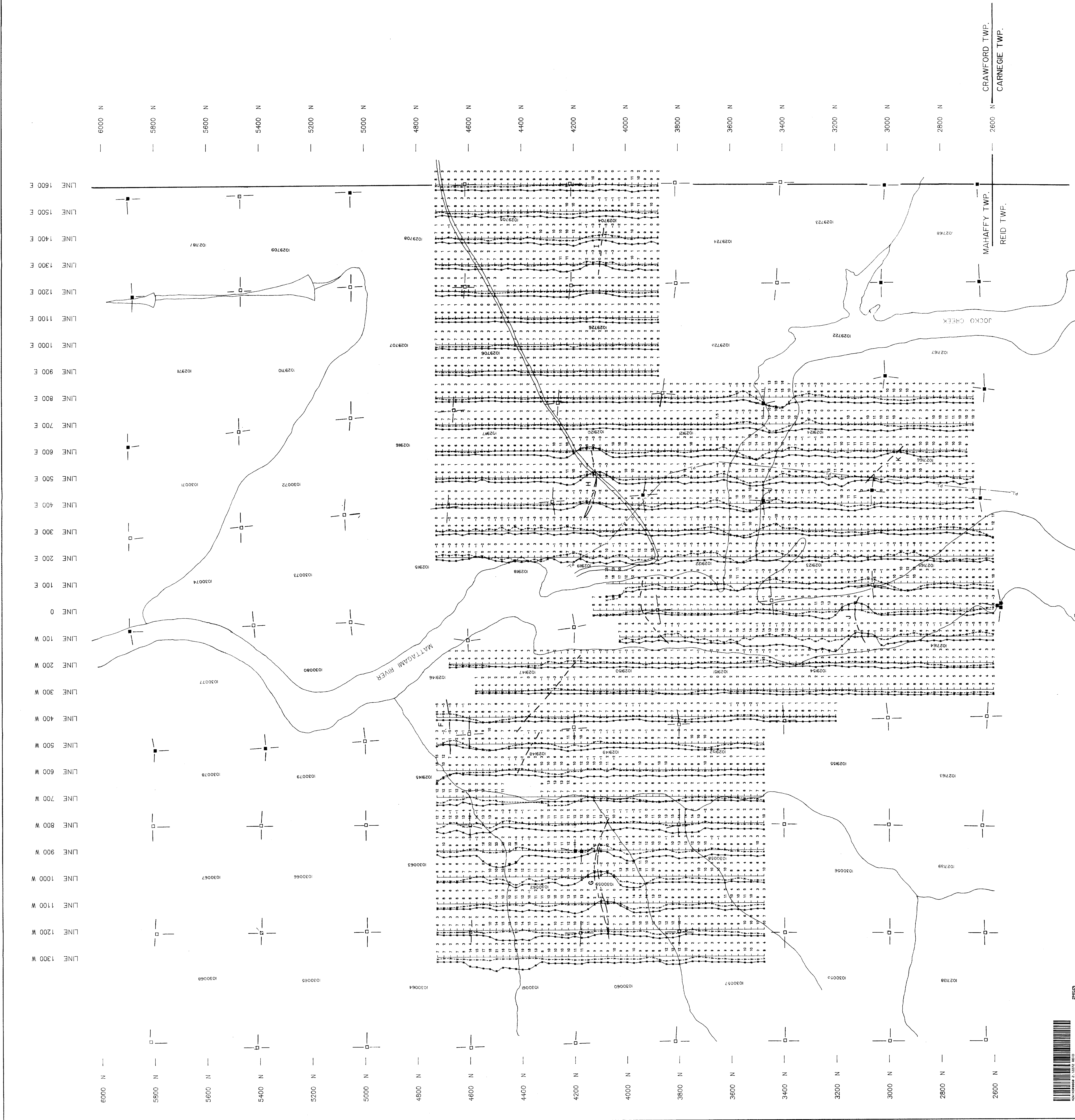


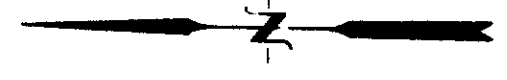
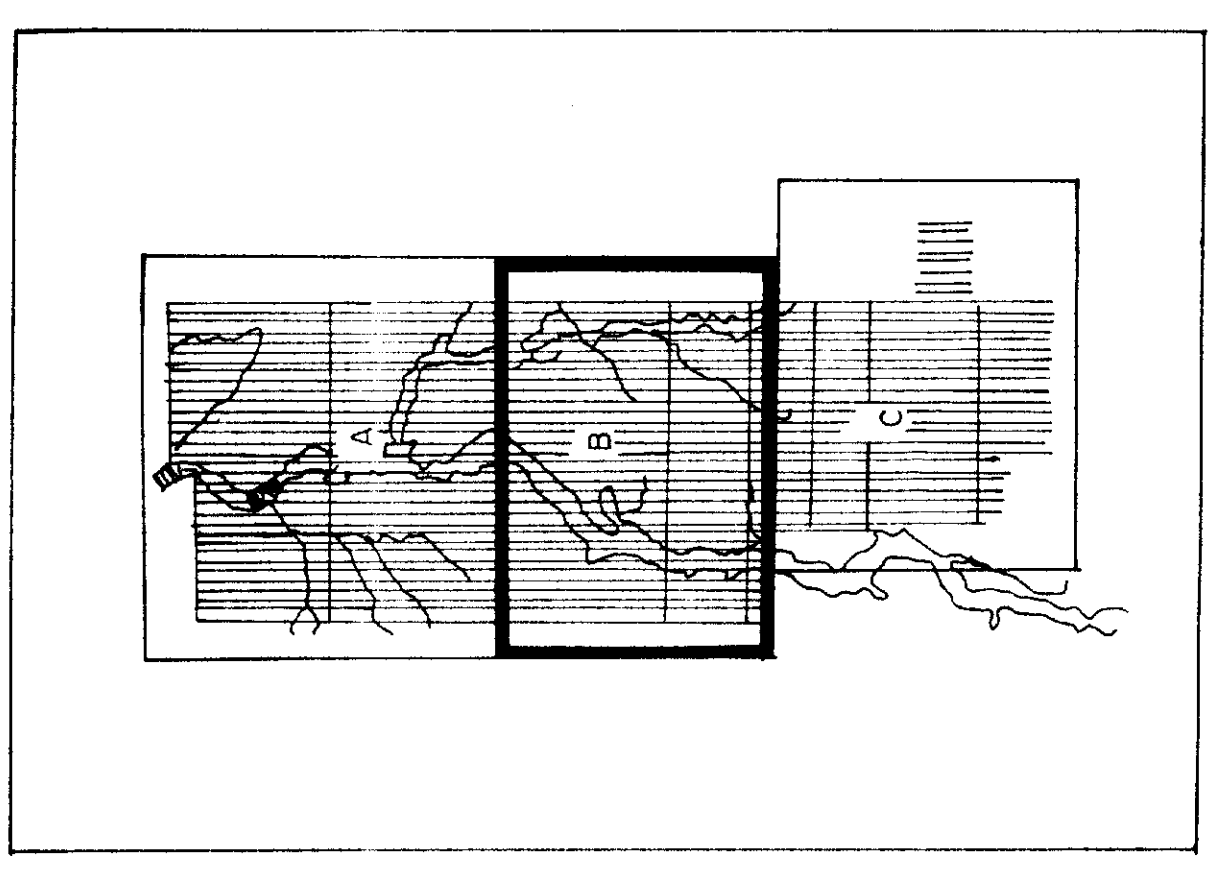
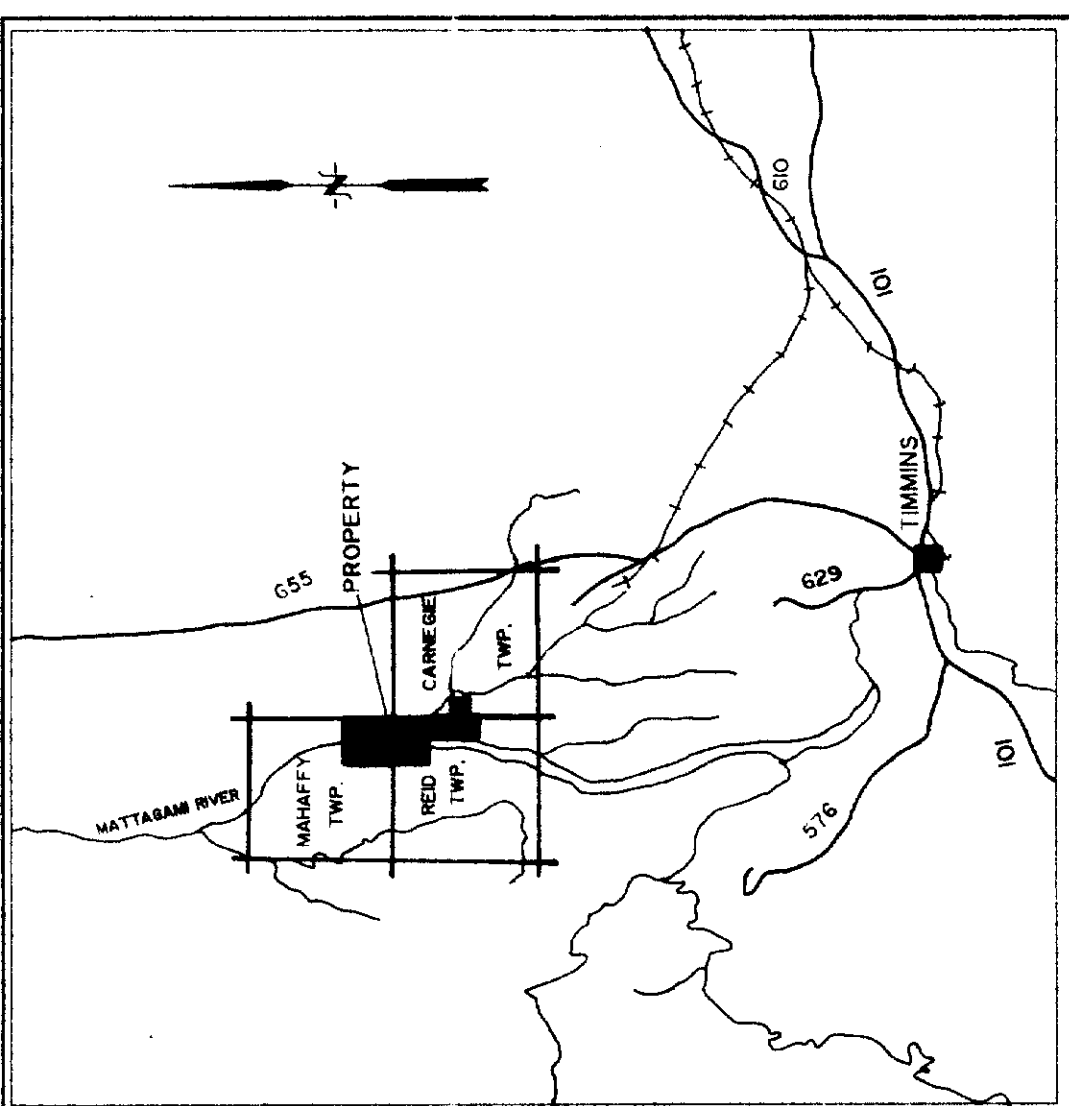
3-phase
 Quadrature

2.1222

COMSTATE RESOURCES LTD.
 HELEM SURVEY
 REID PROPERTY
 AREA A

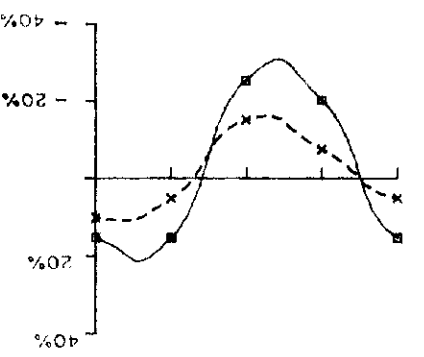
NTS: 42-A/14
 SCALE : 1:5000
 FILE : REID-PL
 WORK BY :
 Tantalus Geophysics Ltd.
 PROJ # 6-14
 DATE : 10/07/09





- PL — POWER LINE
- CLAMPOST (located)
- CLAMPOST (approximate)
- - - ANOMALY AXIS

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



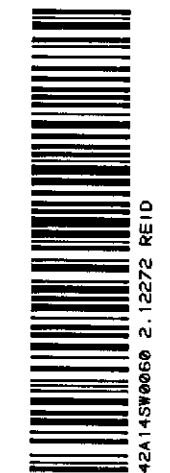
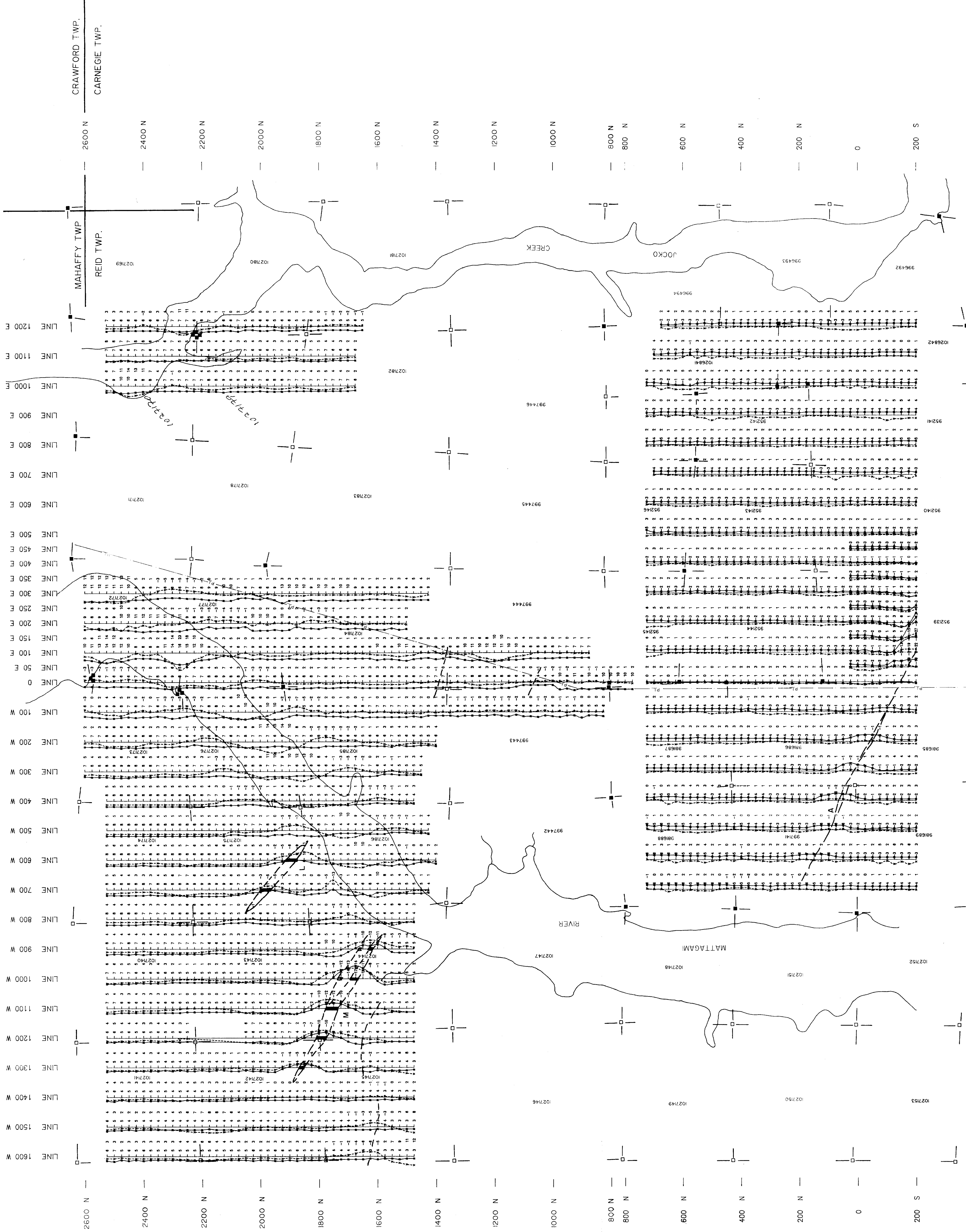
In-phase
 Quadrature

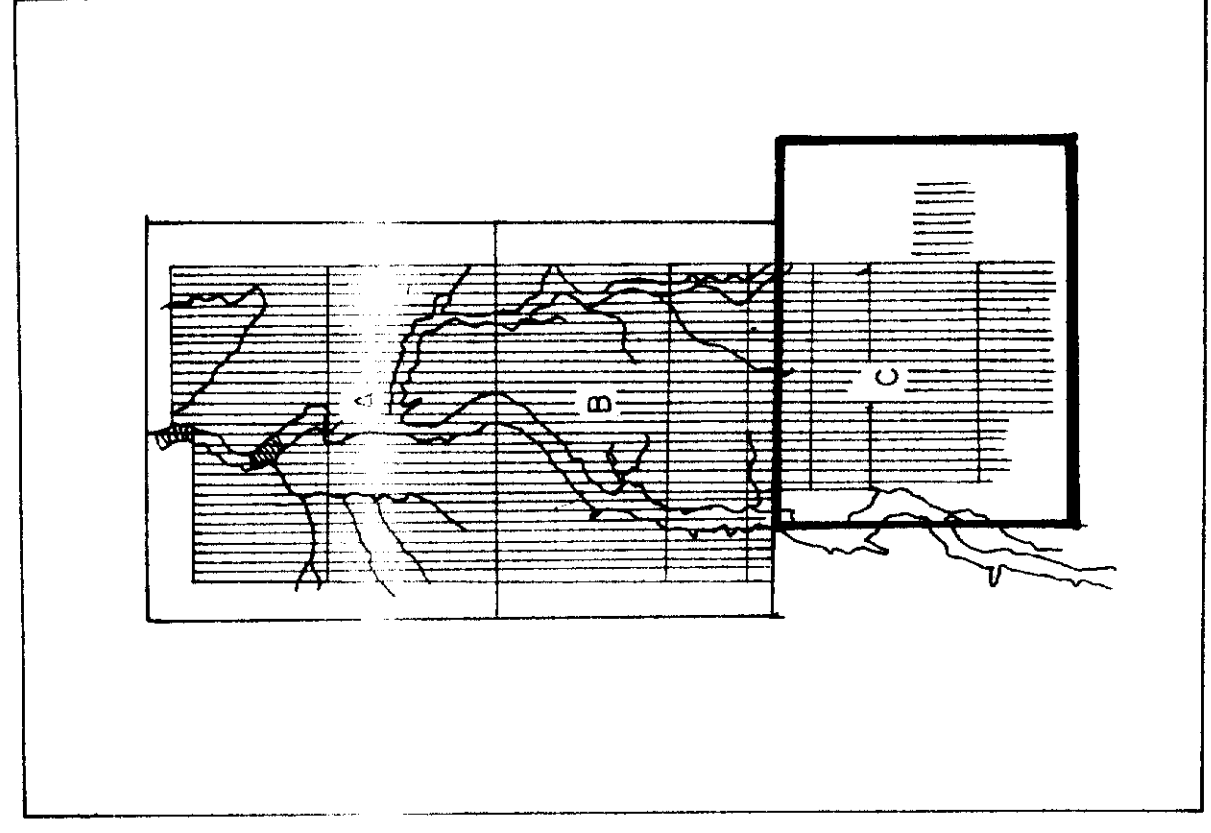
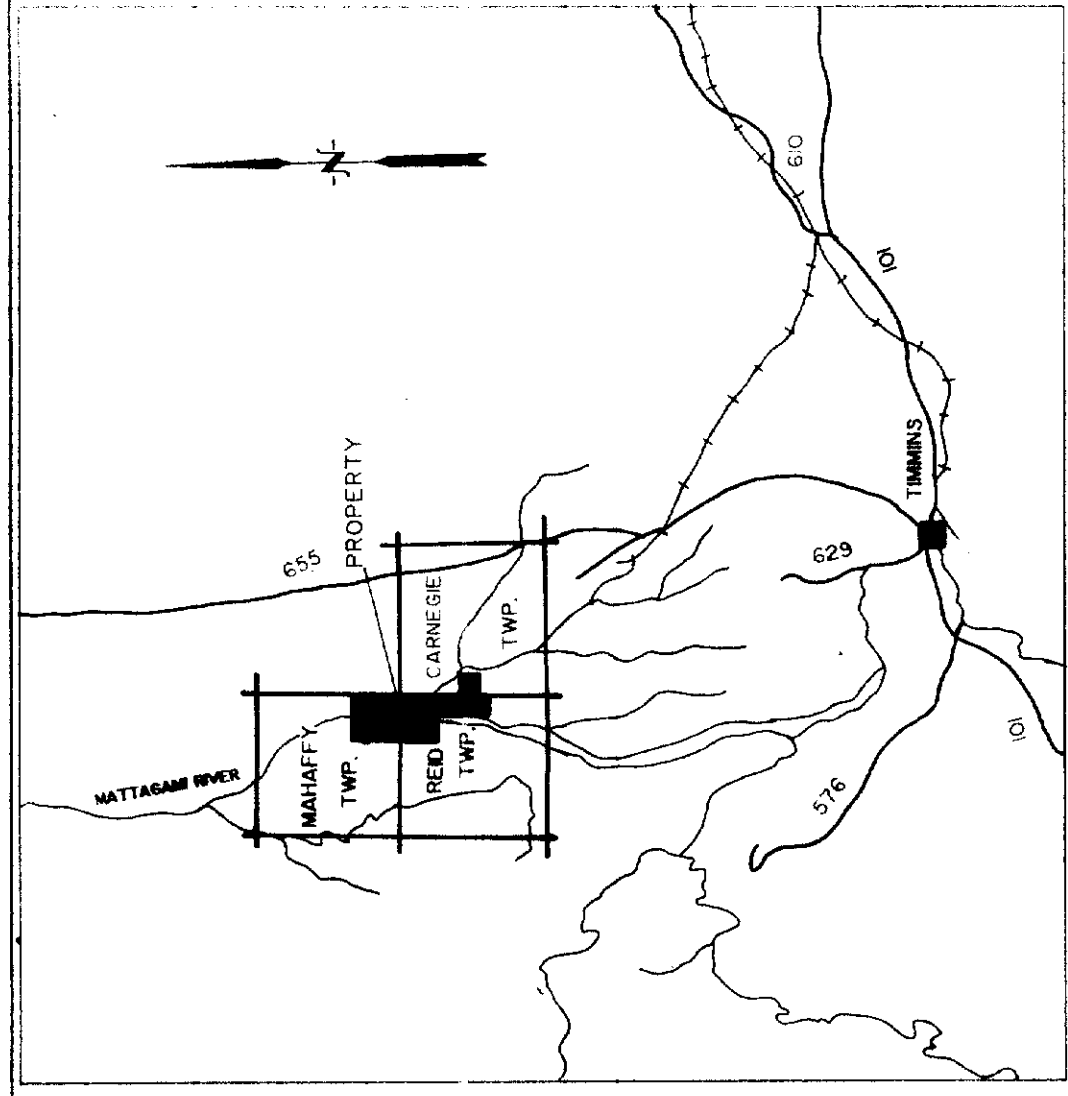
2.12272

COMSTATE RESOURCES LTD.
 HLEM SURVEY
 REID PROPERTY
 AREA B

NTS: 42-A/14
 SCALE : 1: 5000
 FILE : REIDC-HL
 WORK BY : Timmins Geophysics Ltd.

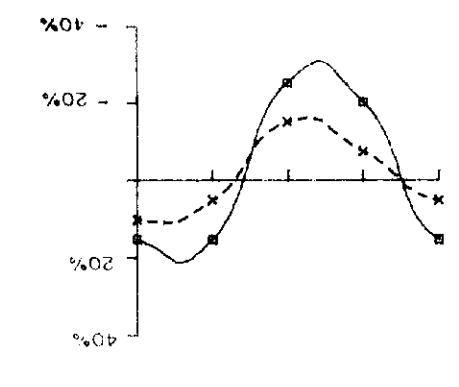
PROJ # 6-141
 DATE : JANUARY 1989





- P.L. — POWER LINE
- CLAMPPOST (located)
- CLAMPPOST (approximate)
- - - - - APPROXIMATE

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

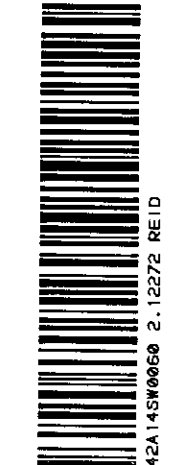
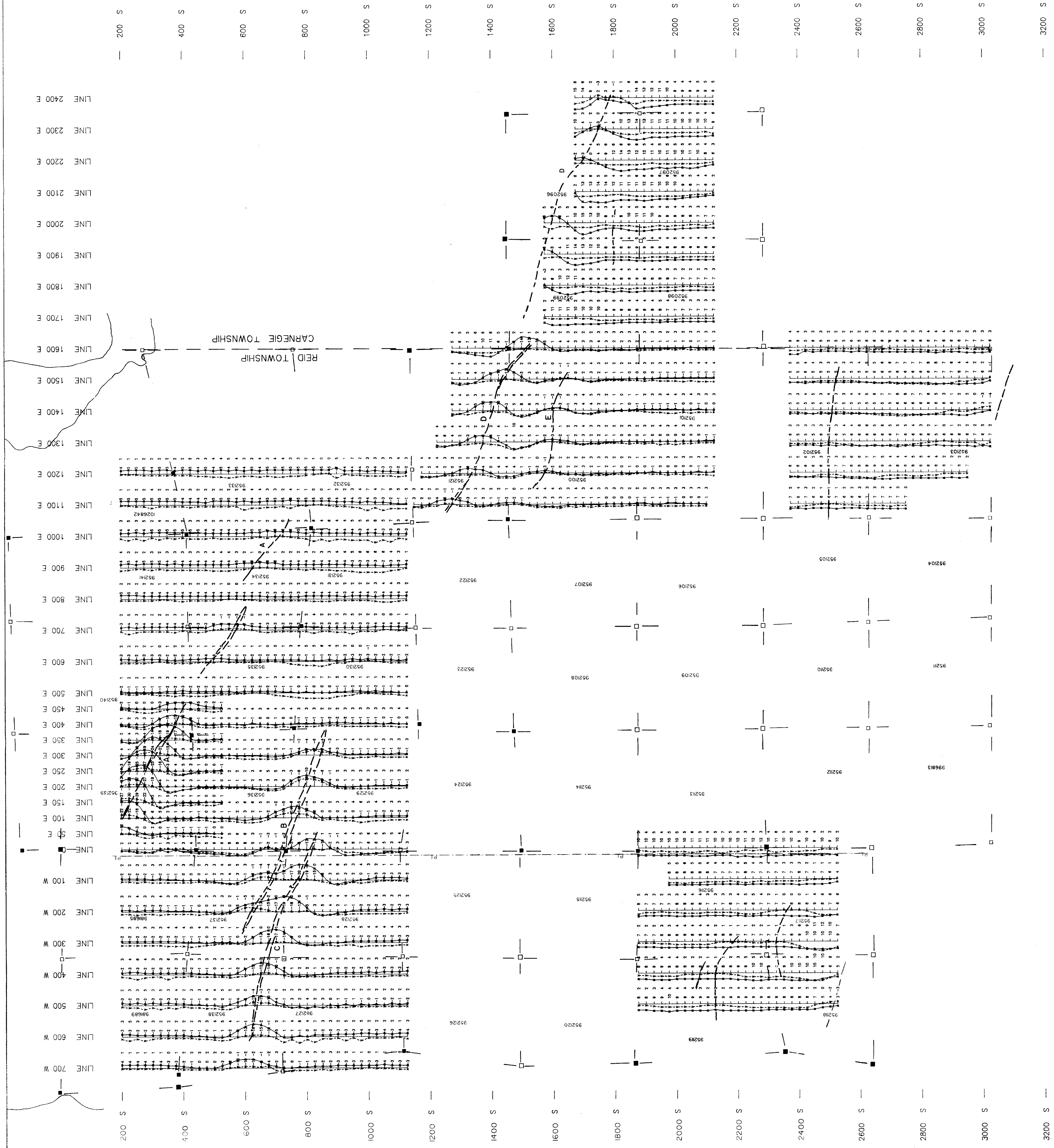


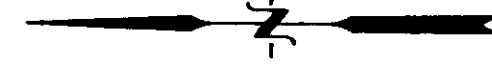
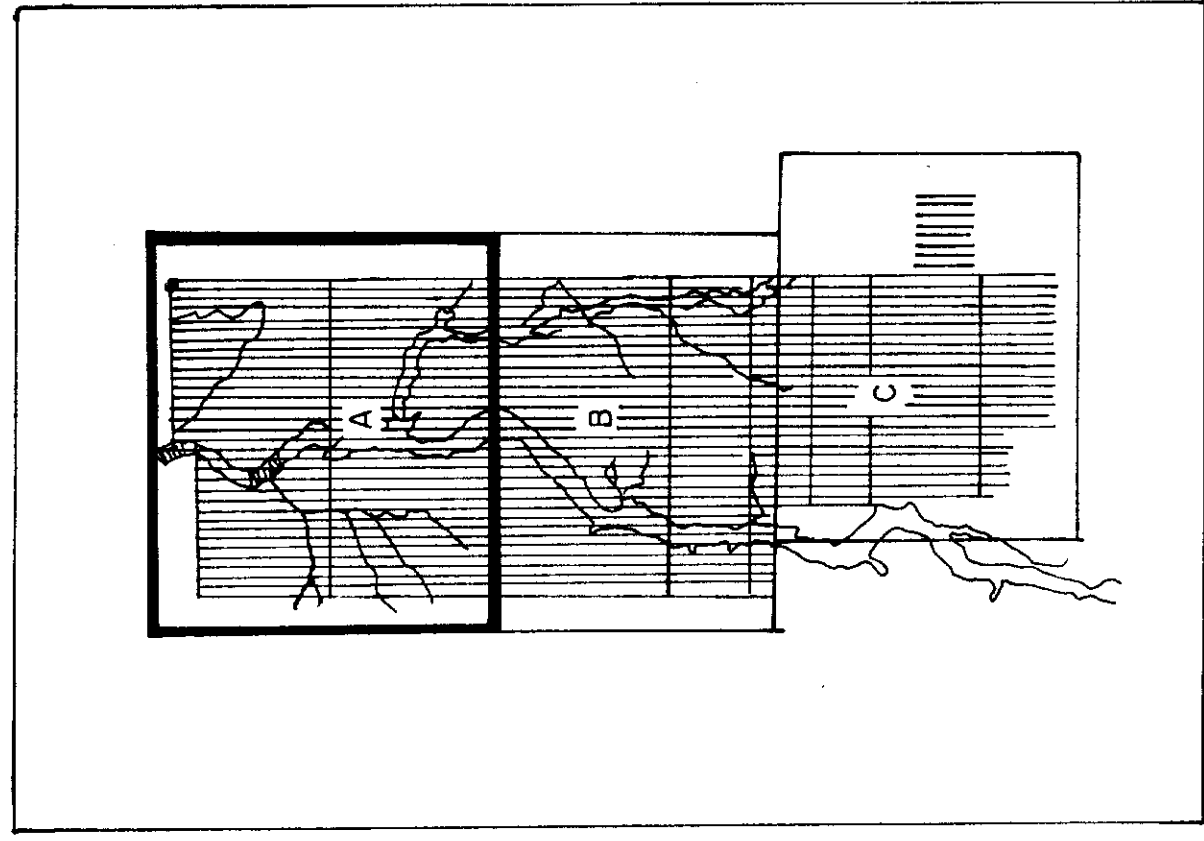
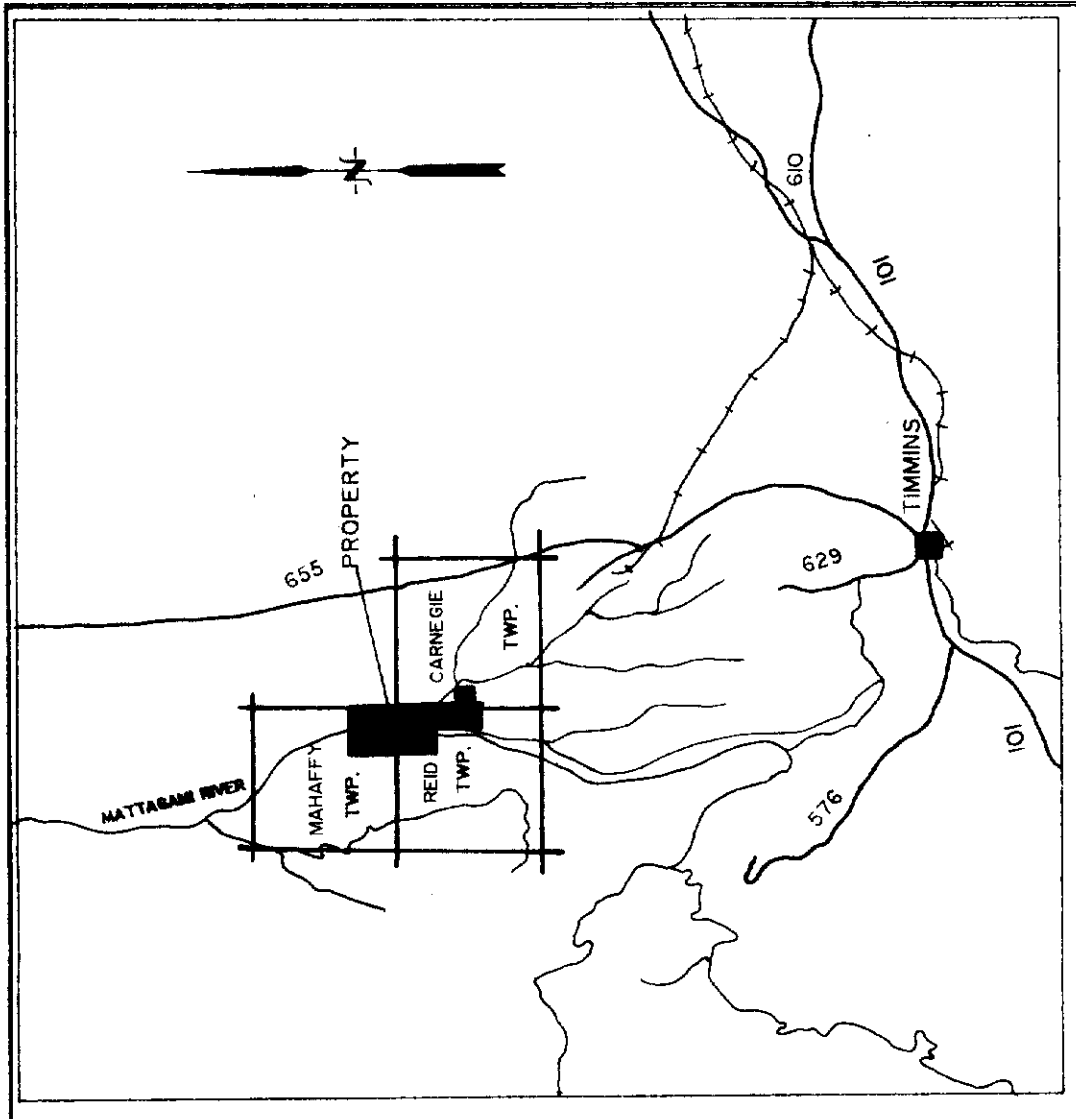
In-phase
 Quadrature
2.12272

COMSTATE RESOURCES LTD.
 HLEM SURVEY
 REID PROPERTY
 AREA C

NTS: 42-A/14
 SCALE : 1: 5000
 FILE : REID0.HL
 WORK BY : Timmins Geophysics Ltd.

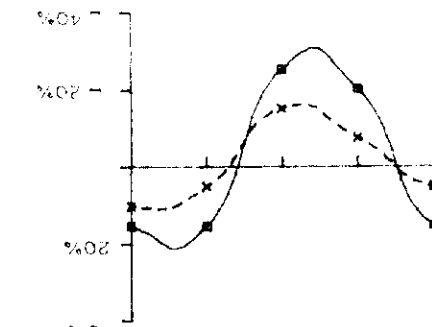
PRCJ # 6-141
 DATE : JANUARY 1989





- POWER LINE
- TRANSDUCER (approx. 4)
- TRANSDUCER (approx. 14)
- - - - - ANOMALY AXIS

Instrument : Apex Parametric MaxMin I
 Coil Separation : 150 meters
 Frequency : 1777 Hz
 Profile Scale : 1 cm = 20%

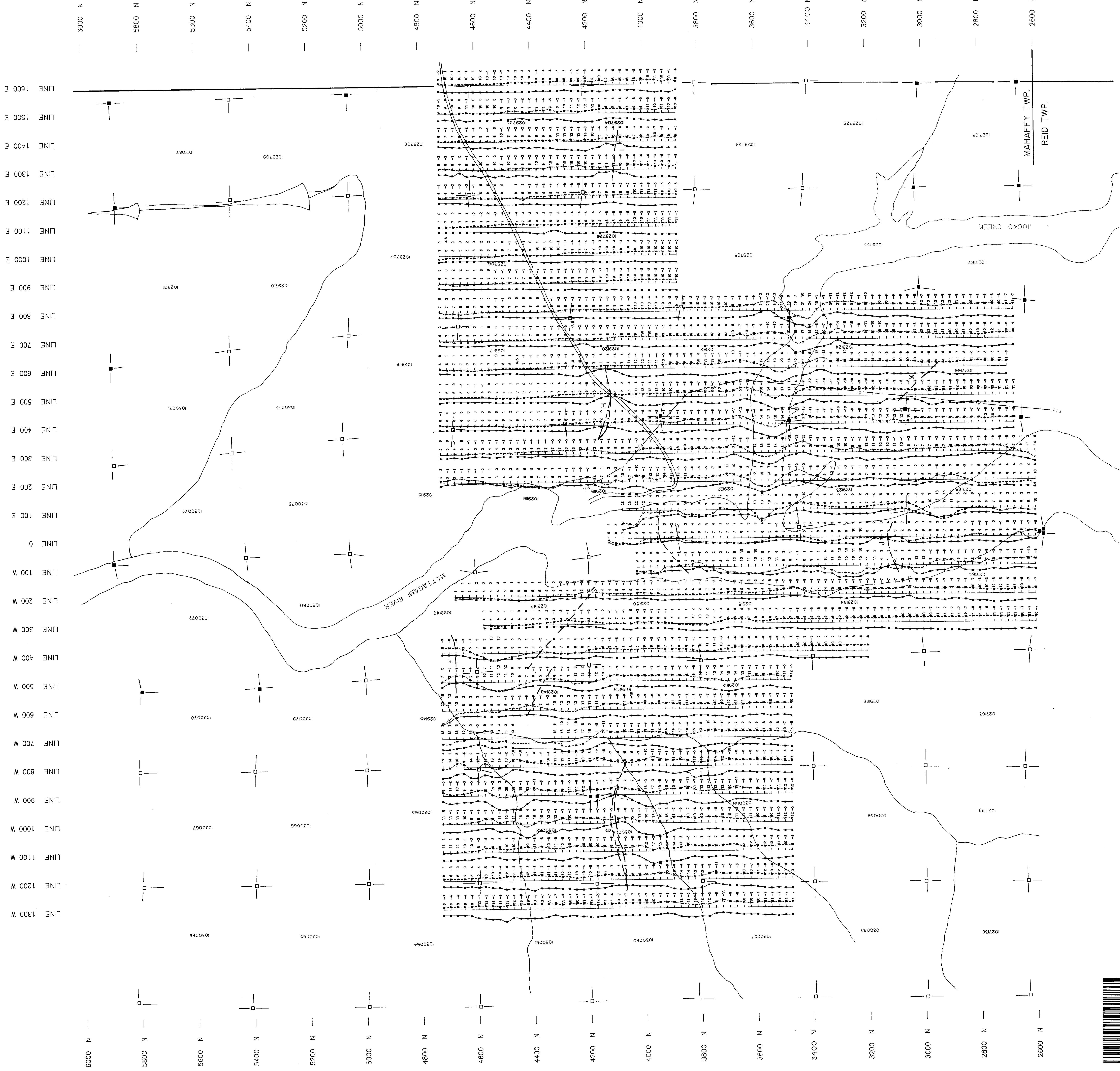


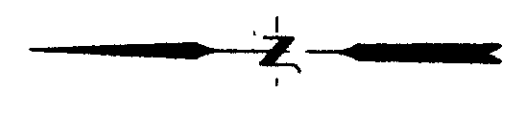
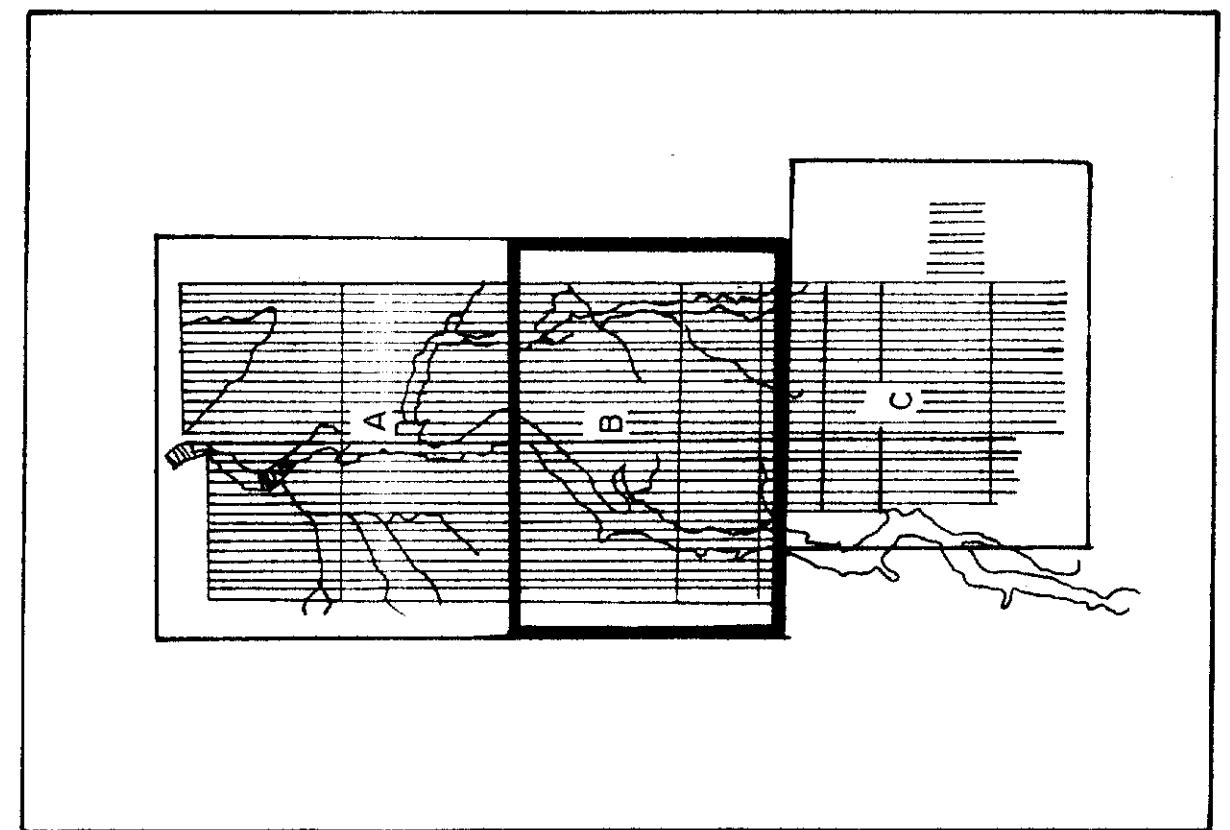
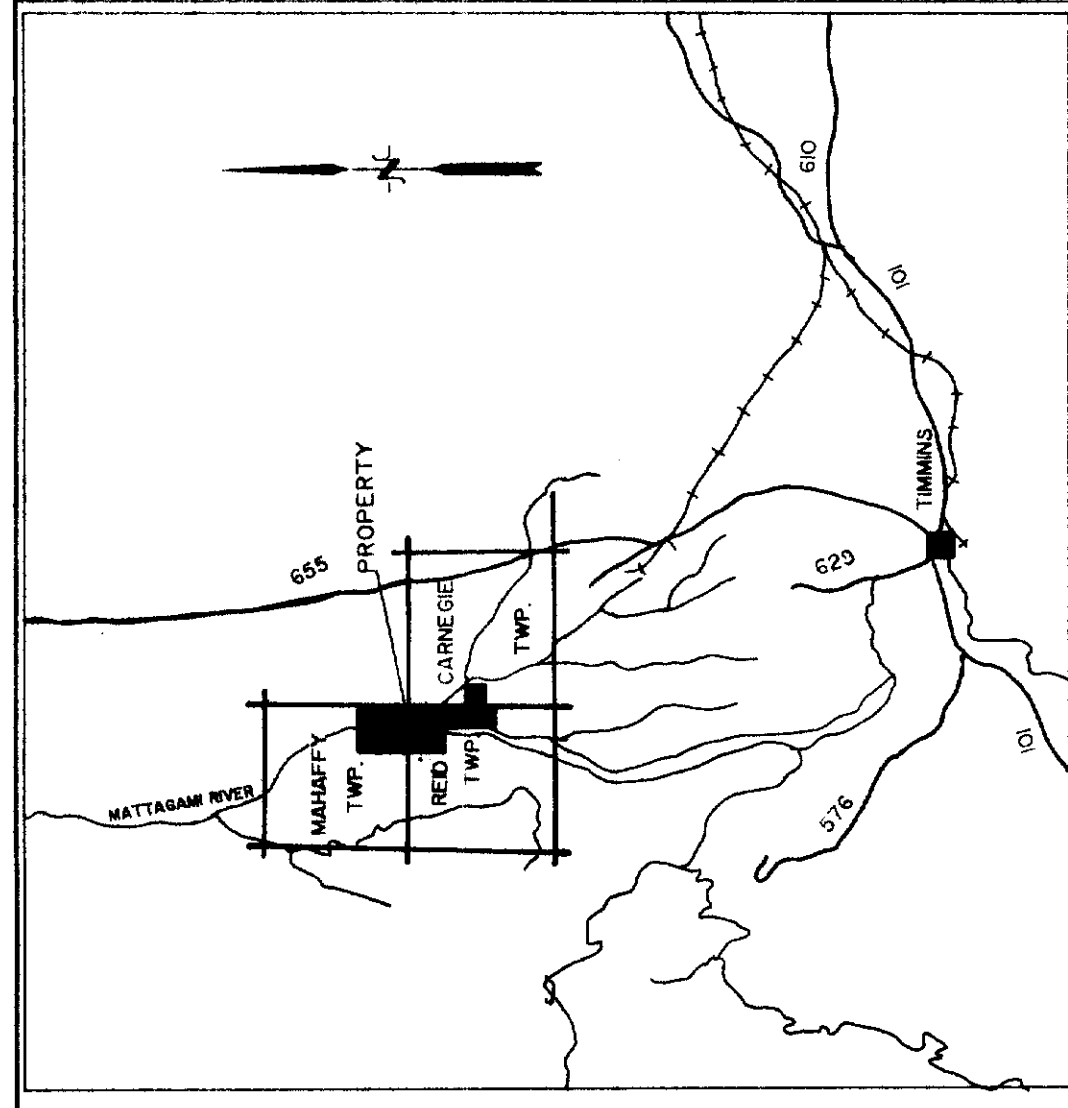
In-phase
 Quadrature

2 12272
COMSTATE RESOURCES LTD.
 HLEM SURVEY
 REID PROPERTY
 AREA A

NTS: 42-A/14
 SCALE: 1:5000
 FILE: REIDON-HL
 WORK BY: Timmins Geophysics Ltd.

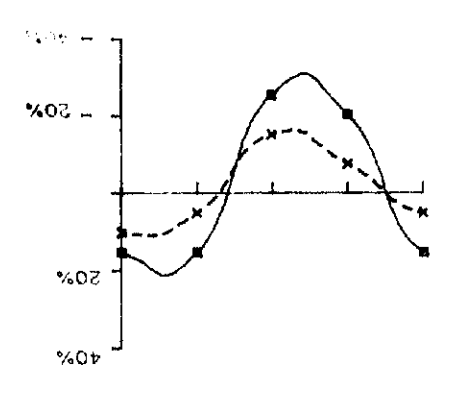
PREC. # 6-141
 DATE: JANUARY 1989
 Timmins Geophysics Ltd.





- PL — POWER LINE
- CLAMPPOST (located)
- CLAMPPOST (approximated)
- - - ANOMALY AXIS

Instrument : Apex Parametrics MoxMin 1
 Coil Separation : 150 meters
 Frequency : 1777 Hz
 Profile Scale : 1cm = 20%

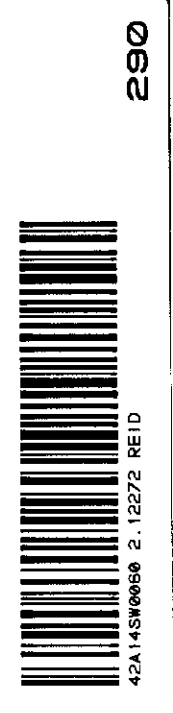
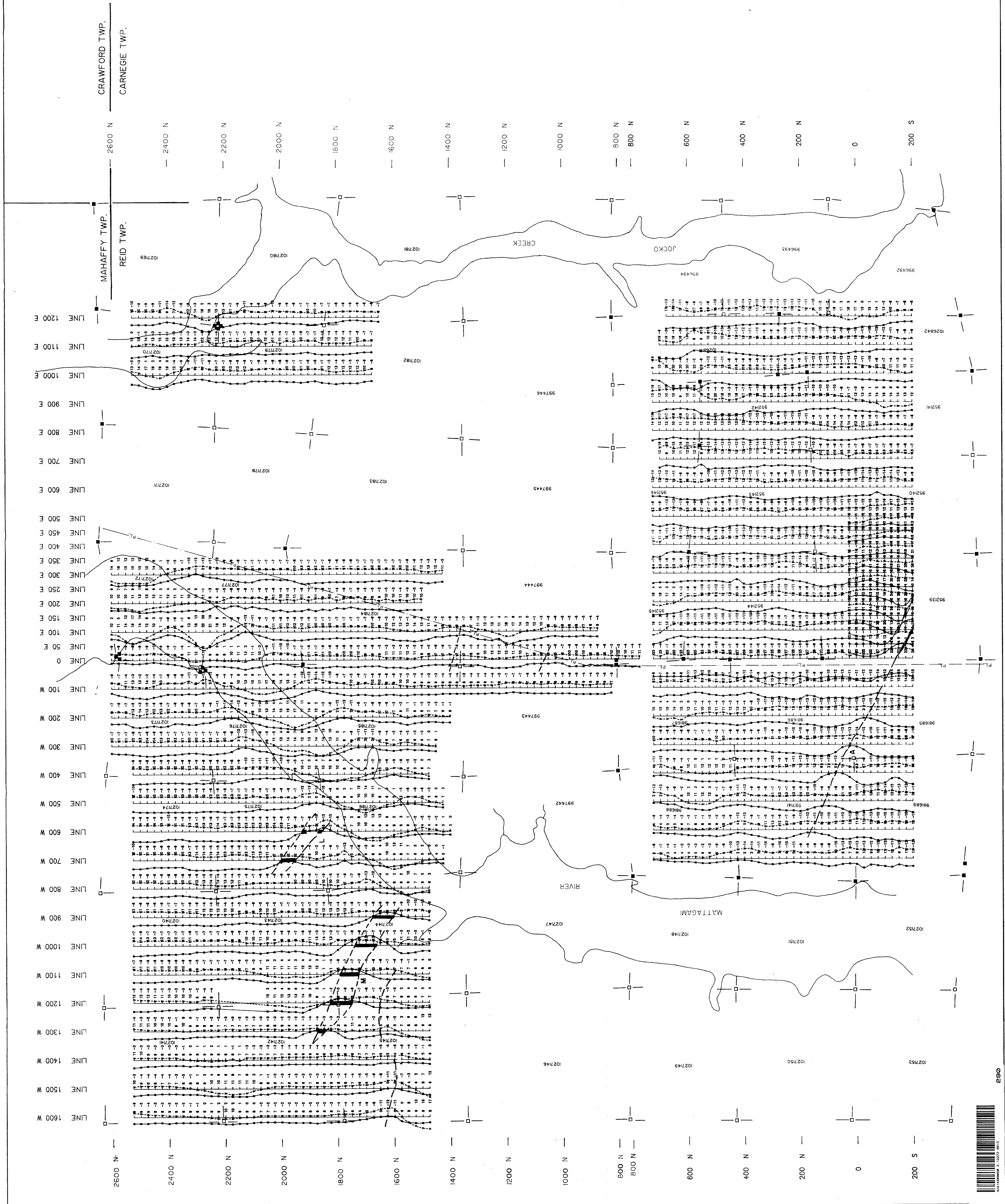


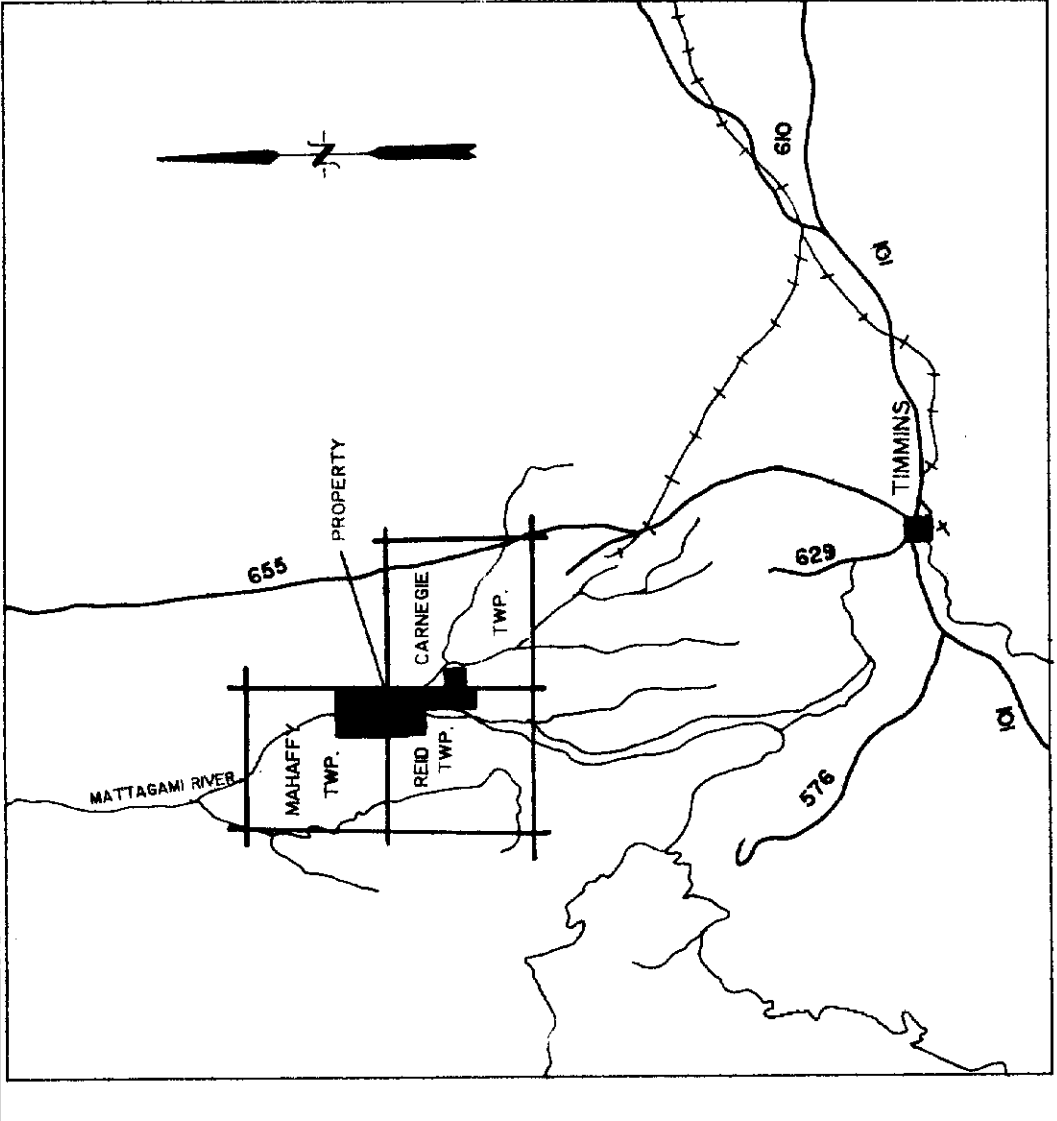
In-phase
 Quadrature

2.12272

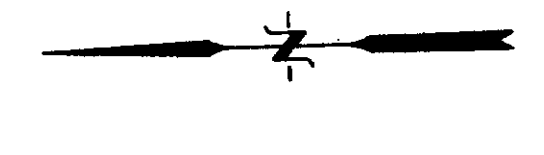
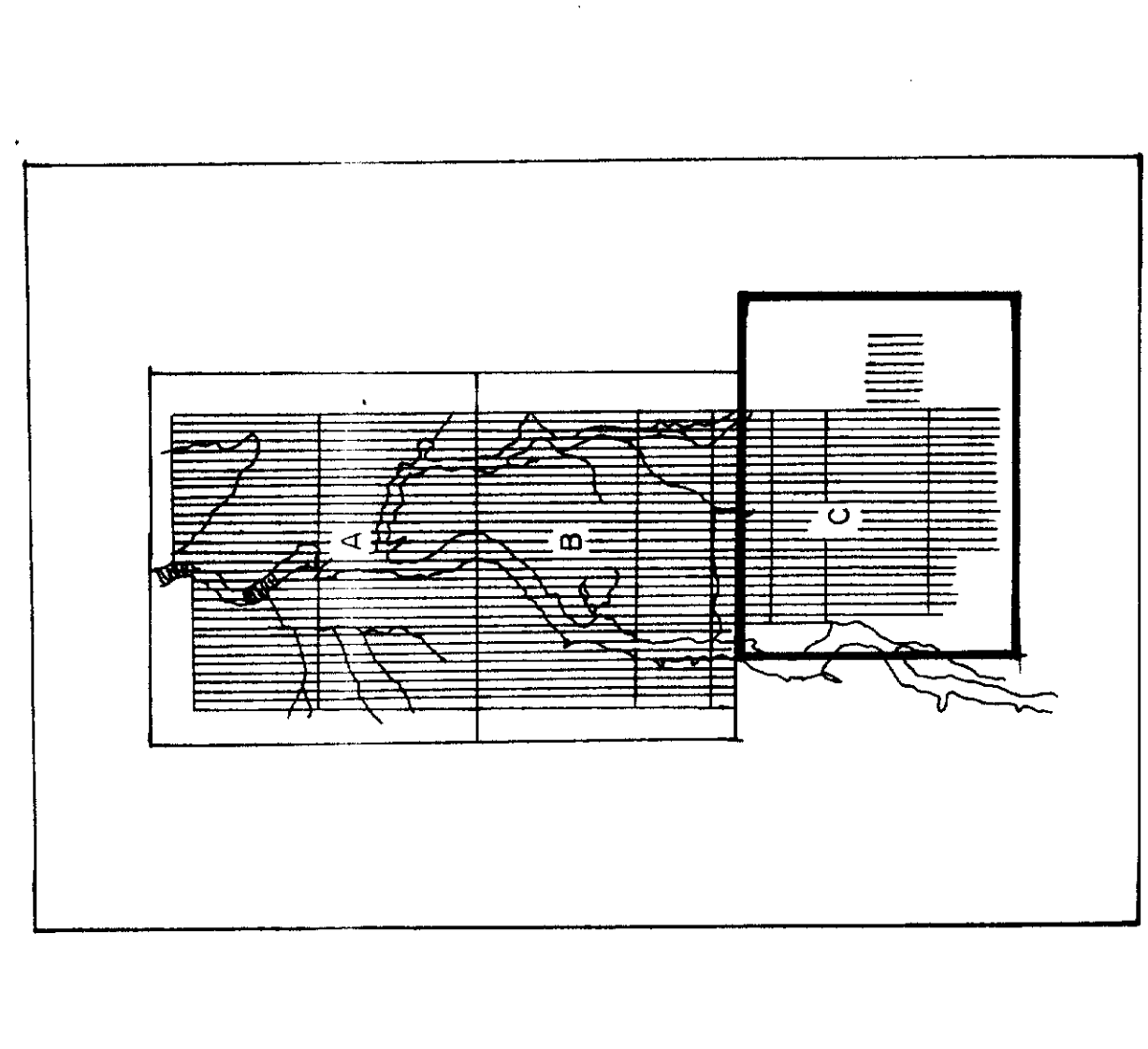
COMSTATE RESOURCES LTD.
 HLEM SURVEY
 REID PROPERTY
 AREA B

NTS: 42-A/14
 SCALE: 1:5000
 DATE: JANUARY 1989
 FILE: REIDC.HL
 WORK BY: Timmins Geophysics Ltd.



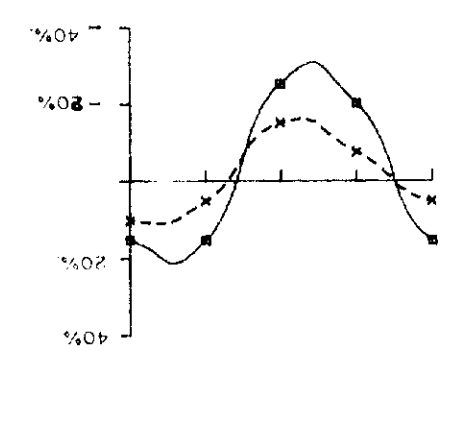


SCALE: 1:500,000



- P.L. — POWER LINE
- CLAMPOST (located)
- CLAMPOST (approximated)
- - - ANOMALY AMS

Instrument : Apex Parametrics MaxMin I
 Coil Separation : 150 meters
 Frequency: 1777 Hz
 Profile Scale : 1cm = 20%



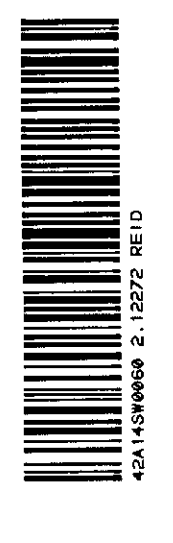
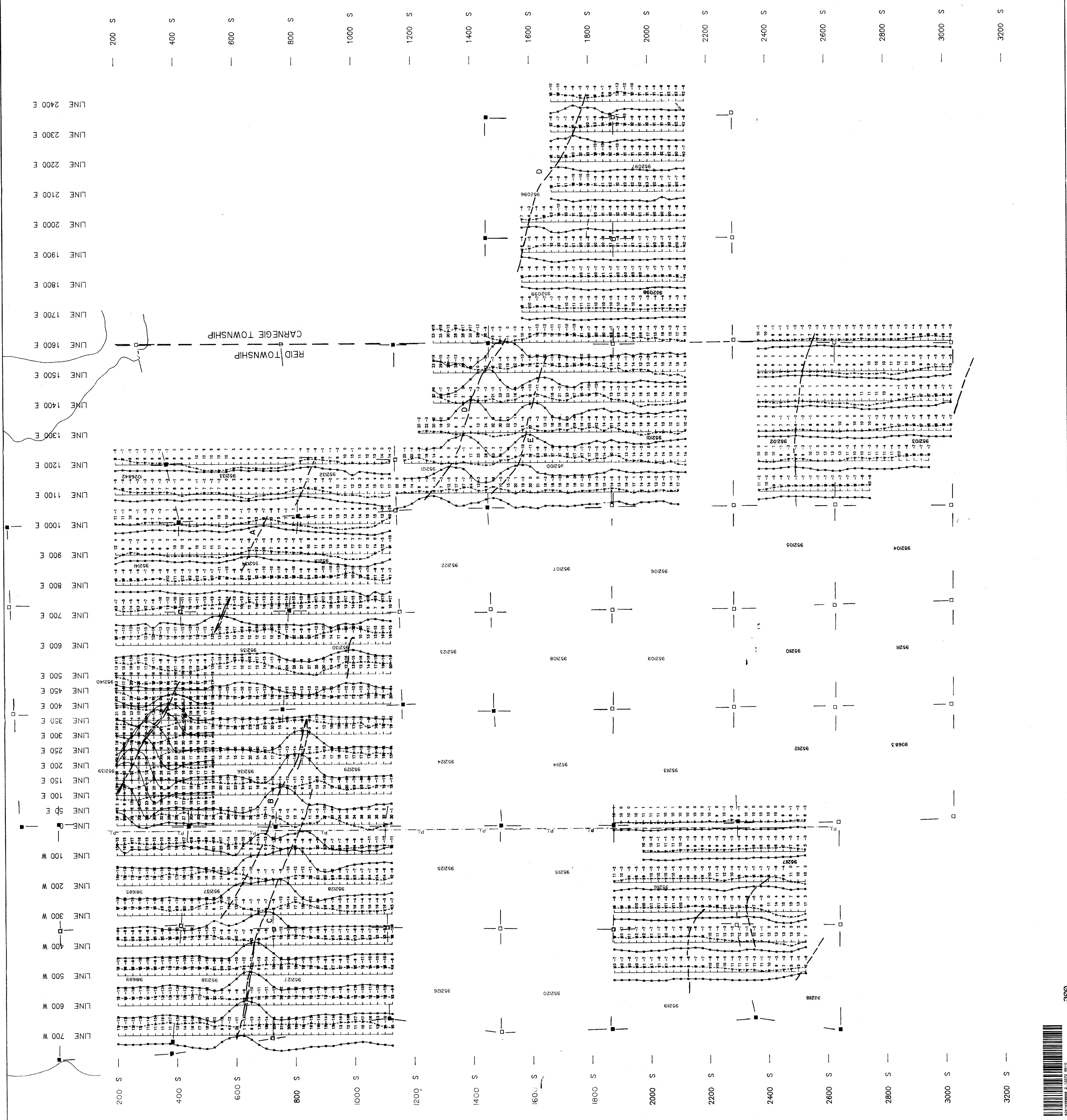
In-phase
 Quadrature

2.12272

COMSTATE RESOURCES LTD.
 HLEM SURVEY
 REID PROPERTY
 AREA C

NTS: 42-A/14
 SCALE : 1: 5000
 FILE : REID01.HL
 WORK BY : *Timmins Geophysics Ltd.*

PROJ # 6-141
 DATE : JANUARY 1989



9000