

TECK EXPLORATIONS LIMITED

NORTH BAY, ONTARIO



41015SE0120 2.13284 CUNNINGHAM

010

2.13284

**ASSESSMENT REPORT
ON THE
GEOPHYSICAL SURVEYS
ON BLOCK I
CUNNINGHAM TOWNSHIP CLAIMS**

by

K. Thorsen

Qual 2.2012

RECEIVED

MAY 07 1990

MINING LANDS SECTION

Report No. 1113NB

N.T.S. 41 O/10

04-26-90

INTRODUCTION

The Cunningham Township blocks are located approximately 15 km northeast of the town of Sultan. Block I is the northern group of four separate claim blocks. The block consists of nineteen contiguous mining claims as shown on Fig. 2.

During June and September, 1989 lines were cut and were surveyed magnetically and electromagnetically.

LOCATION AND ACCESS

The claims are located 15 km northeast of Sultan, a small town on the C.P.R. rail line. Chapleau is approximately 45 km west-northwest of the block.

Access is via float or ski plane to Ransom Lake or via an old winter road that previously accessed the Kenty Mine north of Ransom Lake.

TOPOGRAPHY AND VEGETATION

The topography is gently rolling - typical of Precambrian Shield terrain. The block is covered by mature spruce, pine, birch and poplar with alders and cedar in the low lying areas.

WORK DONE

A grids was established using a base line and cross lines at 100-metre

intervals to cover airborne E.M. anomalies. Stations were established at 25-metre intervals along cross lines.

The lines were surveyed electromagnetically using a MaxMin II horizontal loop instrument. Readings were taken at 25-metre intervals using the 444 Hz, 1777 Hz and 3555 Hz frequencies.

A McPhar Fluxgate magnetometer was used to survey the grids magnetically. Readings were taken at 25-metre intervals and were corrected for diurnal variation by comparing the readings to those taken at established base stations along the base lines.

The data from the geophysical surveys was plotted at a scale of 1:2500 and is shown on Dwgs. 6523a, b, c and d.

RESULTS

MaxMin II

A total of five conductors resulted from the MaxMin II survey. Conductor #1 is relatively strong on one line and weakens on the other three lines. Conductors #2, #3 and #4 are short and relatively weak. Conductor #5 is strong and strikes off the property to the east.

Magnetometer

Conductors #1 and #2 are associated with a very strong magnetic anomaly

and probably represent the same stratigraphic horizon. Conductors #3 and #4 are in a magnetic low and may represent the same conductive zone. Conductor #5 is in a low at the west end and broadens into a moderate high at the east end. The conductor may possibly split at the east end and flank the high on either side.

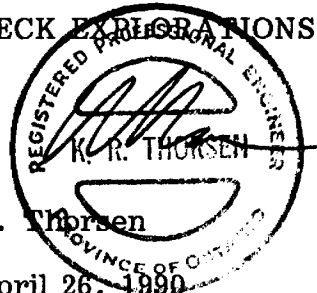
The magnetics are generally fairly spiky indicating shallow overburden depths.

RECOMMENDATIONS

Conductors #1, #3 and #5 should be drill tested. Conductors #2 and #4 may be tested pending the results on the first three holes.

Respectfully submitted,

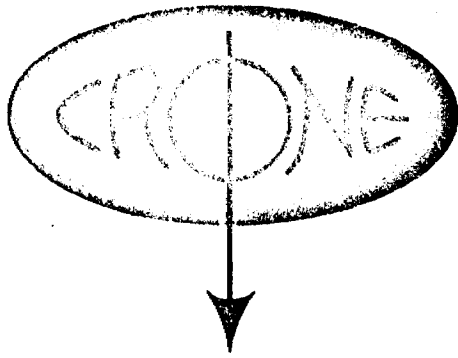
TECK EXPLORATIONS LIMITED



K. Thorsen

April 26, 1990

REP-0040/sm



CRONE GEOPHYSICS LIMITED

3607 WOLFEDALE ROAD,
MISSISSAUGA, ONTARIO,
CANADA.

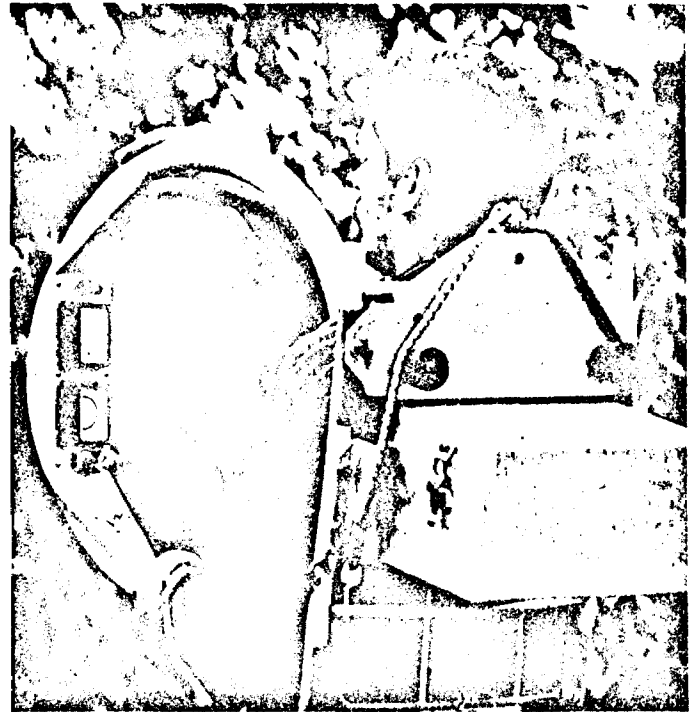
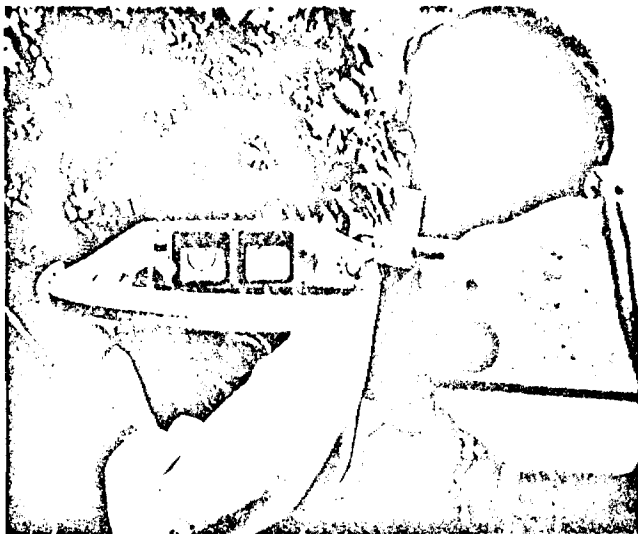
Phone: 270-0096

C E M

THE CRONE ELECTROMAGNETIC INSTRUMENT DESIGNED TO BE
USED WITH THE NEW HORIZONTAL SHOOTBACK EM METHOD AS
WELL AS VERTICAL LOOP AND HORIZONTAL LOOP METHODS.

The equipment consists of two identical transmitter-receiver coils capable of measuring the DIP ANGLE and FIELD STRENGTH of the EM field. Coil separations up to 600'. See the report "Deep Electromagnetic Exploration with the Horizontal Shootback Method" by D. Crone for analysis of this new method.

HORIZONTAL SHOOTBACK EM
TRANSMITTING RECEIVING



- Deep penetration.
- Accurate surveys in mountainous terrain.
- Line cutting not required.
- Precise interpretation as to dip, conductivity and depth.
- Simple to operate.
- Rugged equipment.

SPECIFICATION OF THE CEM INSTRUMENT

This unit is composed of two identical coils both capable of receiving and transmitting at 3 fixed frequencies. All circuiting is housed within the coils. The batteries are mounted in an insulated box on a magnesium packboard.

- coil diameter 22", weight per coil 8.3 lbs.
- standard frequencies 390, 1830, 5010 Hz (others available).
- inclinometer range 200°, accuracy $\pm 1/2^\circ$.
- receiver gain control — 10 turns, linear calibrated pot.
- dip angle determined by visual minimum on Field Strength meter.
- Field Strength read directly on a meter and controlled by gain control pot.
- packboard and battery box weight each 7.0 lbs.
- battery — 6 volt lantern type — Eveready 731, Burgess TW-1.
- weight per battery 3.0 lbs.
- 1 to 3 batteries may be used connected in series.
- range for 100% Field Strength and $\pm 1^\circ$ null all frequencies,
6 volts — 400', 12 volts — 500', 18 volts — 600'.
- shipped in two wooden boxes weight 50 lbs. each.

McPHAR

M700 Flux Gate Magnetometer

Rugged, reliable instrument for hand-held field operation

Self Levelling sensing head

Five scale ranges: 1,000 to 100,000 gammas

Low temperature drift

Latitude adjustment up to $\pm 100,000$ gammas

Reverse measurement polarity by turn of switch

Long battery life



M700 Flux Gate Magnetometer is a simple and efficient instrument for measuring changes in the earth's magnetic field. The two operating controls are mounted on the face of the instrument with the latitude adjustment and accessory socket concealed behind a panel on the side.

For measuring the vertical component of the earth's magnetic field, the instrument is set to zero at a chosen base station.

At each station on the survey the M700 is held roughly level, and a measurement of the increase or decrease in the magnetic field is read off the meter directly in gammas.

Measurement Ranges

Sensitivity

1,000 gammas	20 gammas/div.
3,000 gammas	50 gammas/div.
10,000 gammas	200 gammas/div.
30,000 gammas	500 gammas/div.
100,000 gammas	2,000 gammas/div.

Operating temperatures -35°C. to 55°C.
Temperature drift less than 50 gammas over entire operating range

Dimensions 4 x 7 x 10½ in. (10 x 18 x 27 cm.)

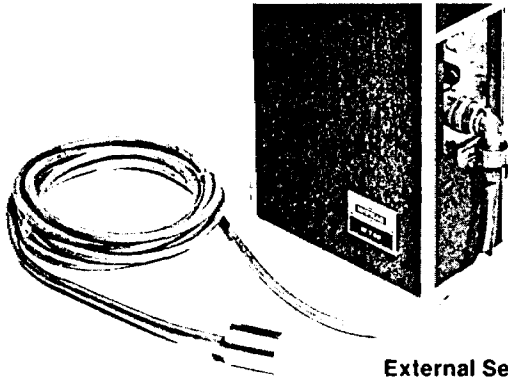
Weight

6½ pounds (3 kg.), less batteries and carrying case
8 pounds (3.8 kg.) with batteries

Batteries

Two internally mounted 9V batteries provide up to two months operation under normal conditions.

Accessories increase flexibility of the M700



External Sensing Head

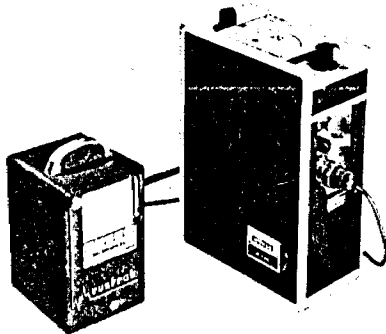
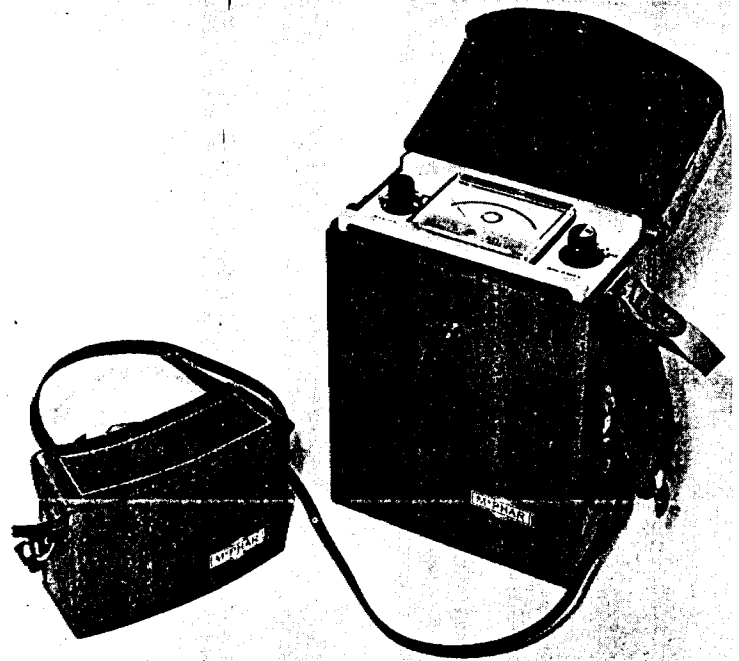


Chart Recorder



External Battery Pack

Side accessory socket allows use of:

- external battery pack
- chart recorder
- external sensing head
- horizontal sensing head

Accessory socket is located in the side panel of the M700 along with the latitude adjustment control and accessory switch. It allows the use of various pieces of equipment that extend the range of this instrument.

External Battery Pack For below freezing operation the internal batteries are removed and the external battery pack used. It is carried under the operator's clothing to prevent battery freezing. An alternate external battery pack is available consisting of 12 "C" size flashlight batteries.

Chart Recorder For long term base station monitoring an external heavy duty battery pack and chart recorder can be attached to the M700. Any current type recorder with a sensitivity of one milliamper for full scale deflection or any potential type recorder with a sensitivity of one volt for full scale deflection can be used with the magnetometer.

External Sensing Head An external sensing head can be used on the M700 without modification to the instrument. The sensing head plugs into the accessory socket.

McPhar Geophysics Instrument Sales Offices

Canada

McPhar Geophysics Ltd.
139 Bond Street, Don Mills, Ontario
Tel.: (416) 449-5551

811 — 837 W. Hastings Street, Vancouver, B.C.
Tel.: (604) 685-3613

Singapore

McPhar (Asia) Pte. Ltd.
51 Kallang Place, Singapore 12
Tel.: 530311

Australia

McPhar Geophysics Pty. Ltd.
50 Mary Street, Unley 506, S. Australia
Tel.: 72-2133

28 Nicholson Road, Subiaco, W.A. 6008
Tel.: 841-4955

63 Alexander Street, Manly 2095, N.S.W.
Tel.: 977-4192

United States

McPhar Geophysics Inc.
818 W. Miracle Mile, Tucson, Arizona 85705
Tel.: (602) 624-2588

Philippines

McPhar Geoservices (Philippines) Inc.
P.O. Box 3279, Manila
Tel.: 50-53-06

TECK EXPLORATIONS LIMITED

NORTH BAY, ONTARIO



41015SE0120 2.13284 CUNNINGHAM

020

**ASSESSMENT REPORT
ON THE
GEOLOGY AND GEOPHYSICAL SURVEYS
ON BLOCK II
CUNNINGHAM TOWNSHIP CLAIMS**

2.13284

by

K. Thorsen

**RECEIVED
MAY 07 1990
MINING LANDS SECTION**

Report No. 1109NB

N.T.S. 41 O/10

04-23-90

INTRODUCTION

The Cunningham Township blocks are located approximately 15 km northeast of the town of Sultan. Block II is the south central group of four separate claim blocks. The block consists of eight contiguous mining claims as shown on Fig. 2.

During June and September, 1989 lines were cut, surveyed magnetically and electromagnetically and geologically mapped.

LOCATION AND ACCESS

The claims are located 15 km northeast of Sultan, a small town on the C.P.R. rail line. Chapleau is approximately 45 km west-northwest of the block.

Access is attained through several lumber roads constructed during the last few years. Both grids on Block II are traversed by gravel logging roads.

TOPOGRAPHY AND VEGETATION

Approximately three-quarters of the southeast grid and one-half of the northwest grid have been cut over very recently. The remainder of the grids are covered with mature poplar, spruce, birch, balsam and pine as noted on Dwg. 6524c.

The topography is gently rolling - typical of Precambrian Shield terrain.

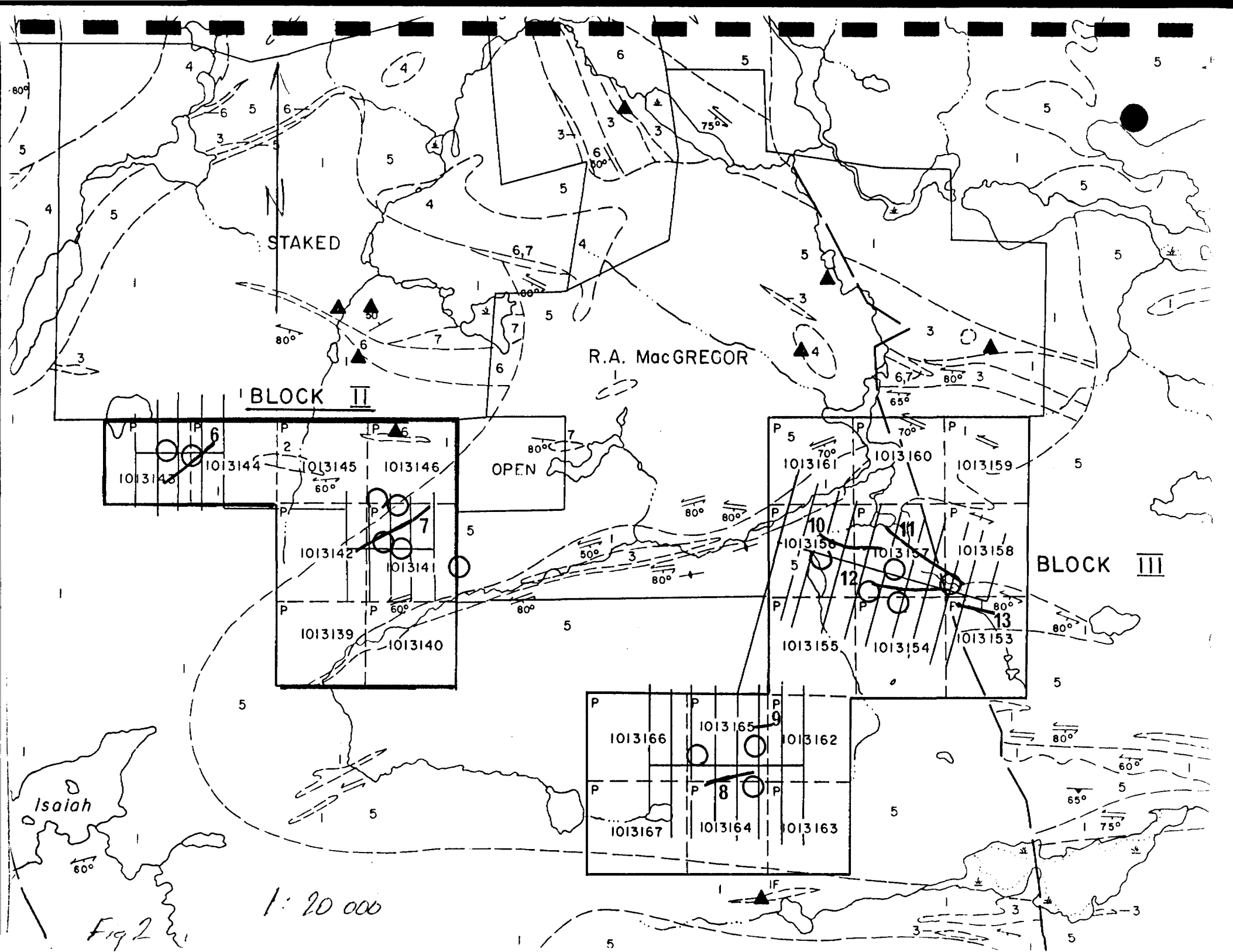


Fig 2

1:20 000

WORK DONE

Grids were established using two base lines and cross lines at 100-metre intervals to cover airborne E.M. anomalies. Stations were established at 25-metre intervals along cross lines.

The lines were surveyed electromagnetically using a Crone CEM shootback instrument in the horizontal mode. Readings were taken at 25-metre intervals using the 390 Hz frequency.

A McPhar Fluxgate magnetometer was used to survey the grids magnetically. Readings were taken at 25-metre intervals and were corrected for diurnal variation by comparing the readings to those taken at established base stations along the base lines.

The lines were walked by a geologist and notes were taken on topography, vegetation, outcrop locations and rock types. Scouting between lines reduced the chances of missing any outcrop.

The data from the geophysical surveys and geological mapping was plotted at a scale of 1:2500 and is shown on Dwgs. 6524a, 6524b and 6524c.

RESULTS

Crone CEM

Conductor #6 on the northwest grid is moderately weak and strikes obliquely

to the grid at approximately 045°. Conductor 7 on the southeast grid is moderately strong in its central portion and strikes at 060°. Both conductors appear to be under shallow overburden as seen from the spiky nature of the shootback results.

Magnetometer

Both conductors are associated with magnetic highs ranging from 400 to 1100 gammas above background. The spiky nature of the data also indicates a shallow depth to source.

Geology

Only five outcrops were noted on the northwest grid. The four located in the southeast part are dark green, massive, mafic flows and the northwest outcrop is a fine-grained intermediate tuff. A gossan noted in the centre of the grid near the conductor axis may be a boulder but is probably close to source. The sample taken from this outcrop was not anomalous in gold, silver, copper and zinc.

Outcrops on the southeast grid consist primarily of intermediate to felsic tuffs with minor mafic tuffs and several gossanous boulders and outcrops. The gossans are generally well banded and highly friable and may represent sulphide-rich sedimentary units. Samples are generally not anomalous in gold, silver, copper and zinc although one sample (F6036) returned a value of 105 ppb Au and another (F6037) contained 885 ppm zinc.

RECOMMENDATIONS

Both conductors, although associated with only weakly anomalous metals, should be drill tested. The axes of the conductors are not directly related to the gossans and may represent economic sulphide deposits.

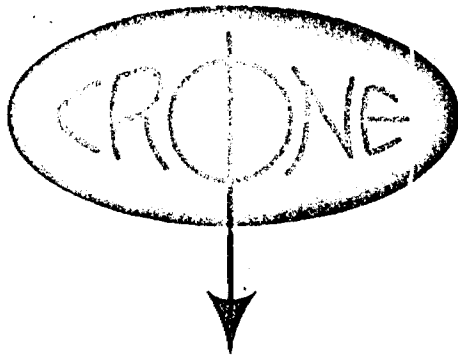
Respectfully submitted,

TRISK EXPLORATIONS LIMITED



April 23, 1990

REP-0036/sm



CRONE GEOPHYSICS LIMITED

3607 WOLFEDALE ROAD,
MISSISSAUGA, ONTARIO,
CANADA.

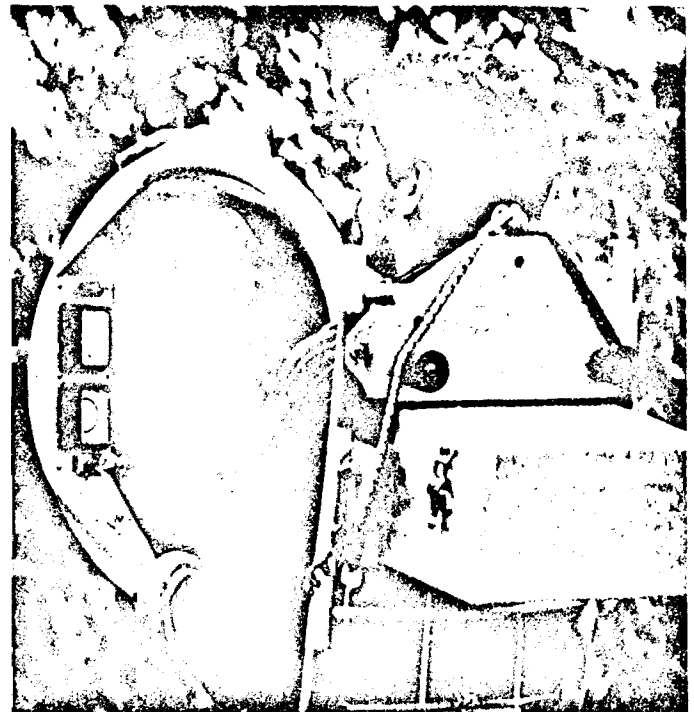
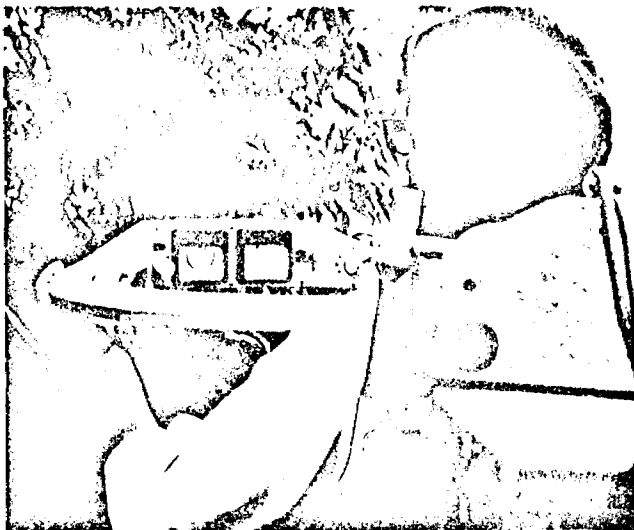
Phone: 270-0096

C E M

THE CRONE ELECTROMAGNETIC INSTRUMENT DESIGNED TO BE USED WITH THE NEW HORIZONTAL SHOOTBACK EM METHOD AS WELL AS VERTICAL LOOP AND HORIZONTAL LOOP METHODS.

The equipment consists of two identical transmitter-receiver coils capable of measuring the DIP ANGLE and FIELD STRENGTH of the EM field. Coil separations up to 600'. See the report "Deep Electromagnetic Exploration with the Horizontal Shootback Method" by D. Crone for analysis of this new method.

HORIZONTAL SHOOTBACK EM
TRANSMITTING RECEIVING



- Deep penetration.
- Accurate surveys in mountainous terrain.
- Line cutting not required.
- Precise Interpretation as to dip, conductivity and depth.
- Simple to operate.
- Rugged equipment.

SPECIFICATION OF THE CEM INSTRUMENT

This unit is composed of two identical coils both capable of receiving and transmitting at 3 fixed frequencies. All circuiting is housed within the coils. The batteries are mounted in an insulated box on a magnesium packboard.

- coil diameter 22", weight per coil 8.3 lbs.
- standard frequencies 390, 1830, 5010 Hz (others available).
- inclinometer range 200°, accuracy $\pm 1/2^\circ$.
- receiver gain control — 10 turns, linear calibrated pot.
- dip angle determined by visual minimum on Field Strength meter.
- Field Strength read directly on a meter and controlled by gain control pot.
- packboard and battery box weight each 7.0 lbs.
- battery — 6 volt lantern type — Eveready 731, Burgess TW-1.
- weight per battery 3.0 lbs.
- 1 to 3 batteries may be used connected in series.
- range for 100% Field Strength and $\pm 1^\circ$ null all frequencies,
6 volts — 400', 12 volts — 500', 18 volts — 600'.
- shipped in two wooden boxes weight 50 lbs. each.

McPHAR

M700 Flux Gate Magnetometer

Rugged, reliable instrument for hand-held field operation

Self Levelling sensing head

Five scale ranges: 1,000 to 100,000 gammas

Low temperature drift

Latitude adjustment up to $\pm 100,000$ gammas

Reverse measurement polarity by turn of switch

Long battery life



M700 Flux Gate Magnetometer is a simple and efficient instrument for measuring changes in the earth's magnetic field. The two operating controls are mounted on the face of the instrument with the latitude adjustment and accessory socket concealed behind a panel on the side.

For measuring the vertical component of the earth's magnetic field, the instrument is set to zero at a chosen base station.

At each station on the survey the M700 is held roughly level, and a measurement of the increase or decrease in the magnetic field is read off the meter directly in gammas.

Measurement Ranges

Measurement Ranges	Sensitivity
1,000 gammas	20 gammas/div.
3,000 gammas	50 gammas/div.
10,000 gammas	200 gammas/div.
30,000 gammas	500 gammas/div.
100,000 gammas	2,000 gammas/div.

Operating temperatures -35°C. to 55°C.
Temperature drift less than 50 gammas over entire operating range

Dimensions 4 x 7 x 10½ in. (10 x 18 x 27 cm.)

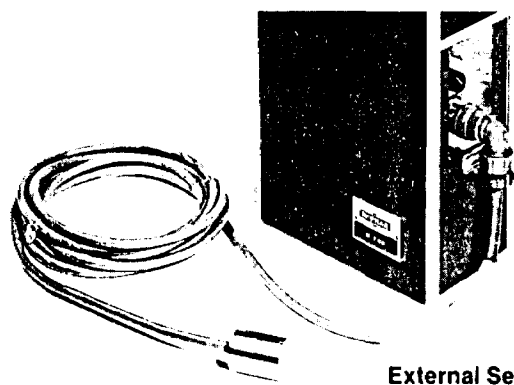
Weight

6½ pounds (3 kg.), less batteries and carrying case
8 pounds (3.8 kg.) with batteries

Batteries

Two internally mounted 9V batteries provide up to two months operation under normal conditions.

Accessories increase flexibility of the M700



External Sensing Head

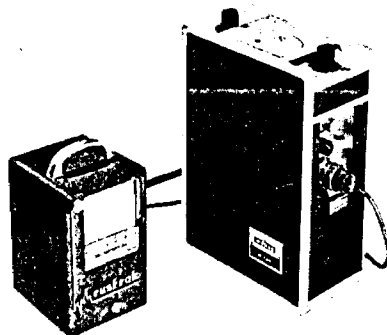
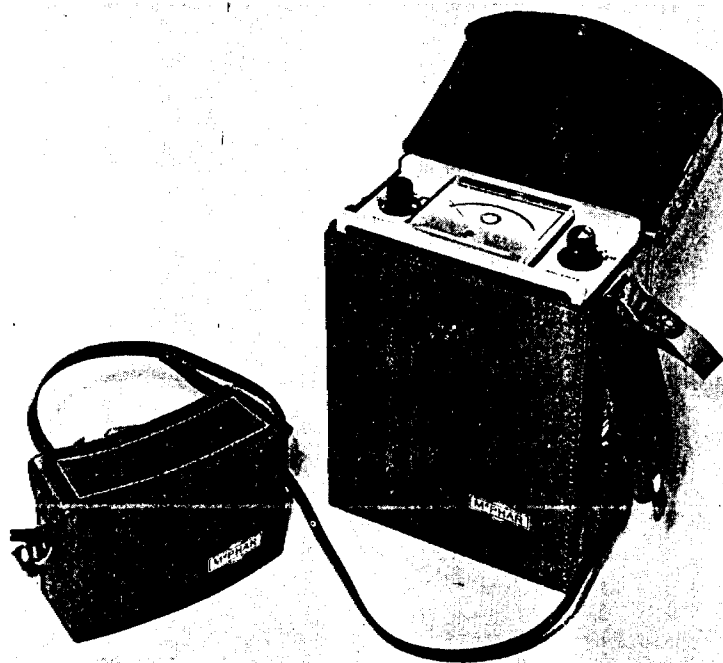


Chart Recorder



External Battery Pack

Side accessory socket allows use of:

- external battery pack**
- chart recorder**
- external sensing head**
- horizontal sensing head**

Accessory socket is located in the side panel of the M700 along with the latitude adjustment control and accessory switch. It allows the use of various pieces of equipment that extend the range of this instrument.

External Battery Pack For below freezing operation the internal batteries are removed and the external battery pack used. It is carried under the operator's clothing to prevent battery freezing. An alternate external battery pack is available consisting of 12 "C" size flashlight batteries.

Chart Recorder For long term base station monitoring an external heavy duty battery pack and chart recorder can be attached to the M700. Any current type recorder with a sensitivity of one milliamperes for full scale deflection or any potential type recorder with a sensitivity of one volt for full scale deflection can be used with the magnetometer.

External Sensing Head An external sensing head can be used on the M700 without modification to the instrument. The sensing head plugs into the accessory socket.

McPhar Geophysics Instrument Sales Offices

Canada
McPhar Geophysics Ltd.
139 Bond Street, Don Mills, Ontario
Tel.: (416) 449-5551

811 — 837 W. Hastings Street, Vancouver, B.C.
Tel.: (604) 685-3613

Singapore
McPhar (Asia) Pte. Ltd.
51 Kallang Place, Singapore 12
Tel.: 530311

Australia
McPhar Geophysics Pty. Ltd.
50 Mary Street, Unley 506, S. Australia
Tel.: 72-2133

28 Nicholson Road, Subiaco, W.A. 6008
Tel.: 841-4955

63 Alexander Street, Manly 2095, N.S.W.
Tel.: 977-4192

United States
McPhar Geophysics Inc.
818 W. Miracle Mile, Tucson, Arizona 85705
Tel.: (602) 624-2588

Philippines
McPhar Geoservices (Philippines) Inc.
P.O. Box 3279, Manila
Tel.: 50-53-06

TECK EXPLORATIONS LIMITED

NORTH BAY, ONTARIO



410155E0120 2.13284 CUNNINGHAM

030

ASSESSMENT REPORT
ON THE
GEOLOGY AND GEOPHYSICAL SURVEYS
ON BLOCK IIIA
CUNNINGHAM TOWNSHIP CLAIMS

2.13284

by

K. Thorsen

RECEIVED

MAY 07 1990

MINING LANDS SECTION

Report No. 1111NB

N.T.S. 41 O/10

04-26-90

INTRODUCTION

The Cunningham Township blocks are located approximately 15 km northeast of the town of Sultan. Block IIIA is the southeastern group of four separate claim blocks. The block consists of nine contiguous mining claims as shown on Fig. 2.

During May and September, 1989 lines were cut, surveyed magnetically and electromagnetically and geologically mapped.

LOCATION AND ACCESS

The claims are located 15 km northeast of Sultan, a small town on the C.P.R. rail line. Chapleau is approximately 45 km west-northwest of the block.

Access is attained through several lumber roads constructed during the last few years. The grid on Block IIIA is traversed by gravel logging roads.

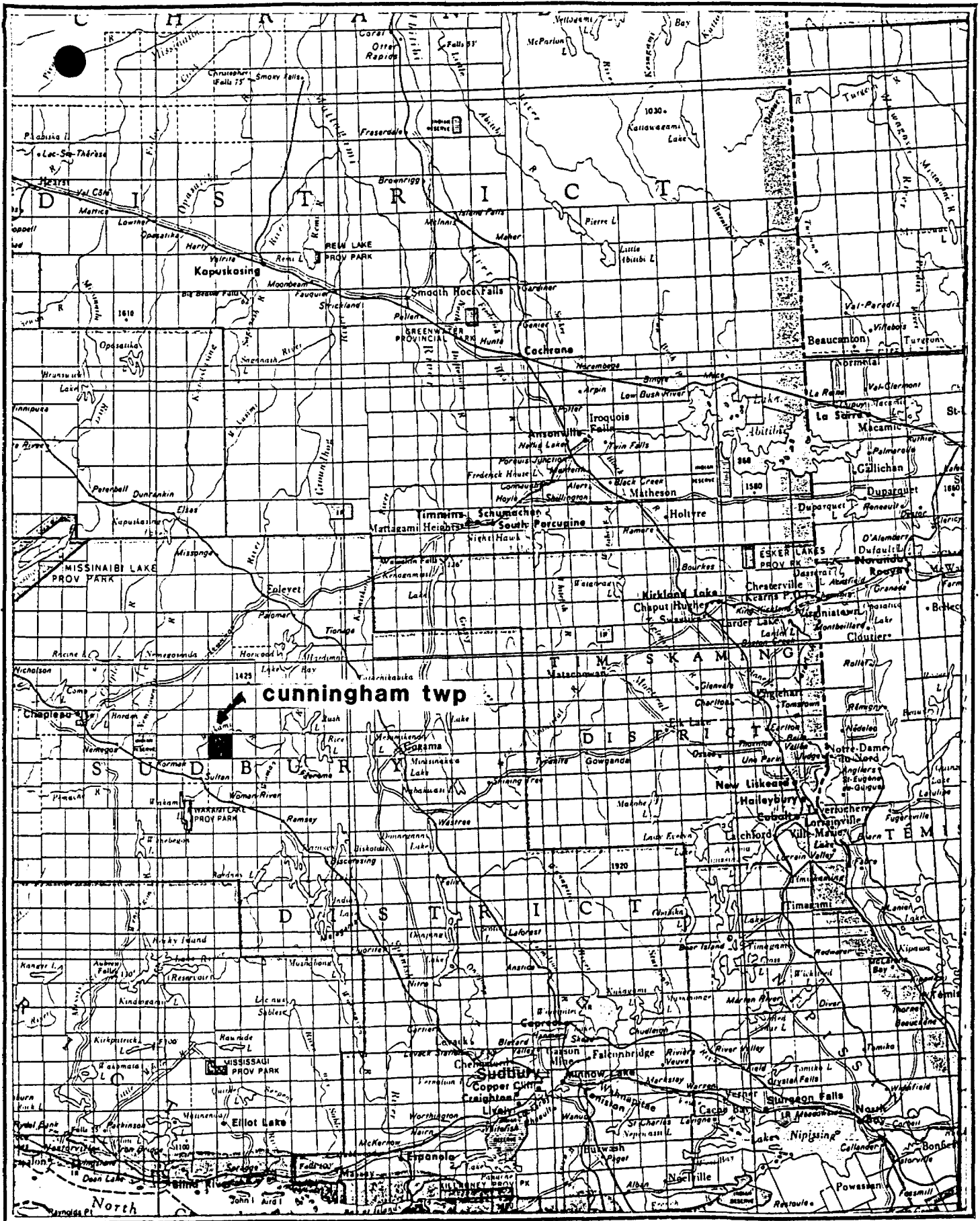
TOPOGRAPHY AND VEGETATION

All of Block IIIA has been cut over very recently. Alders and small spruce remain near the ponds and streams.

The topography is gently rolling - typical of Precambrian Shield terrain.

WORK DONE

The grid was established using a base line and cross lines at 100-metre intervals to cover airborne E.M. anomalies. Stations were established at 25-metre intervals along cross lines.



LOCATION MAP

1 inch equals approximately 32 miles

Miles 20 0 20 40 60 80 100 Miles



Figure. 1

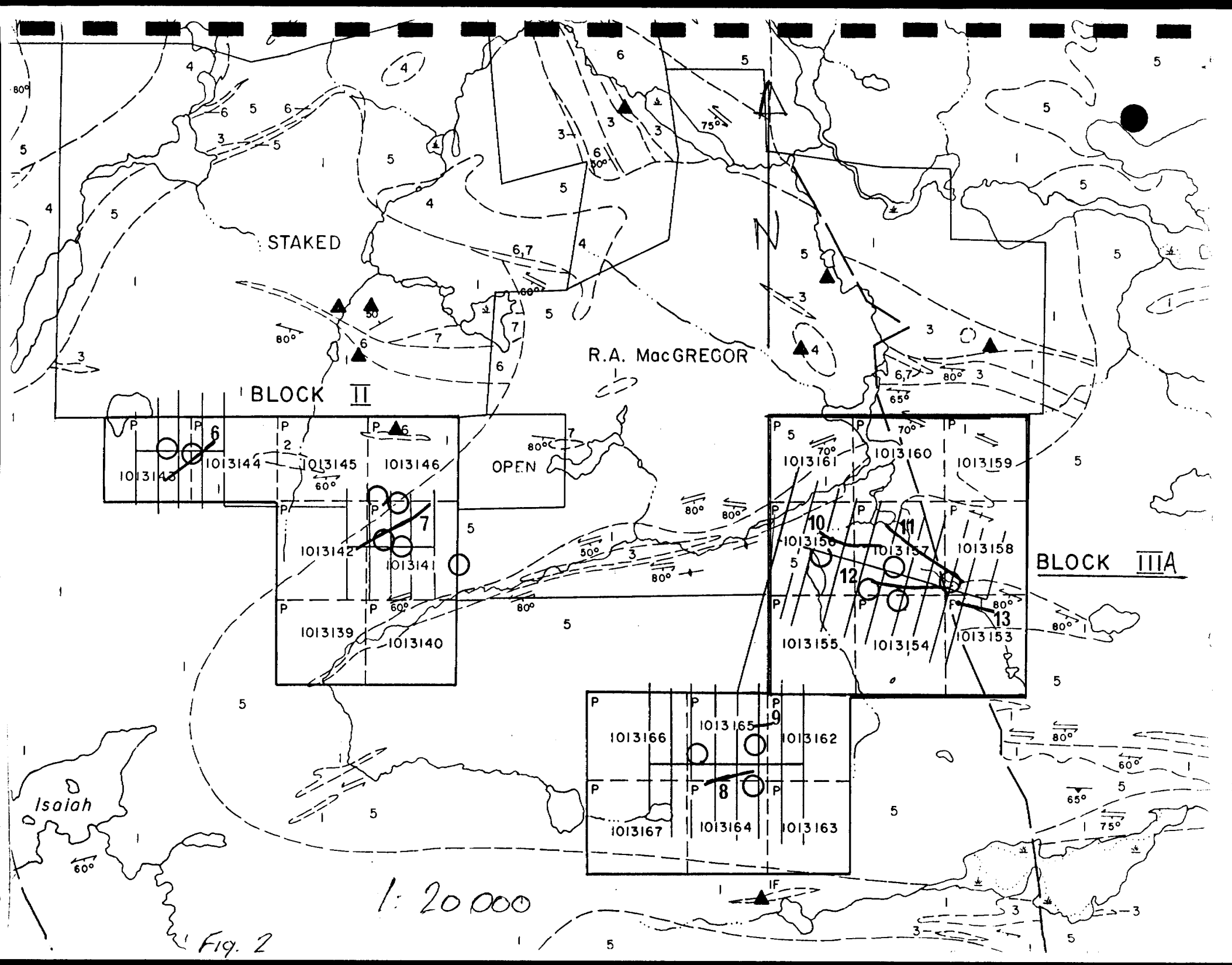


Fig. 2

The lines were surveyed electromagnetically using a Crone CEM shootback instrument in the horizontal mode. Readings were taken at 25-metre intervals using the 390 Hz frequency.

A McPhar Fluxgate magnetometer was used to survey the grids magnetically. Readings were taken at 25-metre intervals and were corrected for diurnal variation by comparing the readings to those taken at established base stations along the base lines.

The lines were walked by a geologist and notes were taken on topography, vegetation, outcrop locations and rock types. Scouting between lines reduced the chances of missing any outcrop.

The data from the geophysical surveys and geological mapping was plotted at a scale of 1:2500 and is shown on Dwgs. 6524a, 6524b and 6524c.

RESULTS

Crone CEM

Conductor #10 is relatively weak, 200 metres long and strikes approximately east-west. Conductor #11 is moderately weak, 300 metres long and strikes approximately southeast. Conductor #12 is very strong, 200 metres long and strikes at 105°. It may be the eastern extension of #13 which is of moderate strength, was located on two lines and strikes off the property at the east end.

Magnetics

The magnetics is quite erratic, and with exception of #13, the conductors are associated with high anomalies in some parts and low in others. The erratic spiky nature of the total picture reflects the shallow overburden covering most of the property.

Geology

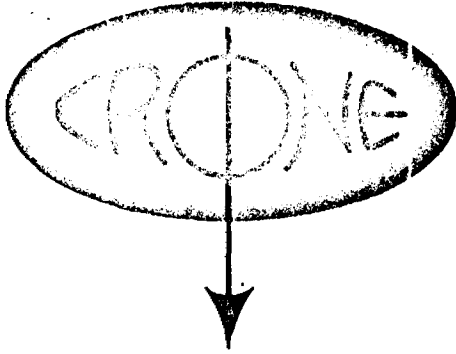
The majority of the property is underlain by fine to medium-grained, massive mafic volcanics. A 200-metre-thick felsic tuff unit stretches southeast and transects the northeast corner of the claims. Trench 1 across conductors #11 and #12 indicate that those conductors are caused by graphitic argillite with up to 10% pyrite. Conductor #12 was trenched with a backhoe and a gossan was uncovered that appears to also be on a graphitic horizon. A sample taken from this trench is anomalous (1190 ppm) in zinc. Samples taken from other trenches are only slightly anomalous in base metals.

RECOMMENDATIONS

Although anomalies #11 and #12 were partially explained by trenching, one hole is recommended on line 1+00mE to intersect the stratigraphy that contains conductors 11, 12 and 13.

REP-0038/sm

Respectfully submitted,
TECK EXPLORATIONS LIMITED
K. R. MORSEN
REGISTERED PROFESSIONAL ENGINEER
PROVINCIAL OF ONTARIO
K. Thorsen
April 26, 1990



CRONE GEOPHYSICS LIMITED

3607 WOLFEDALE ROAD,
MISSISSAUGA, ONTARIO,
CANADA.

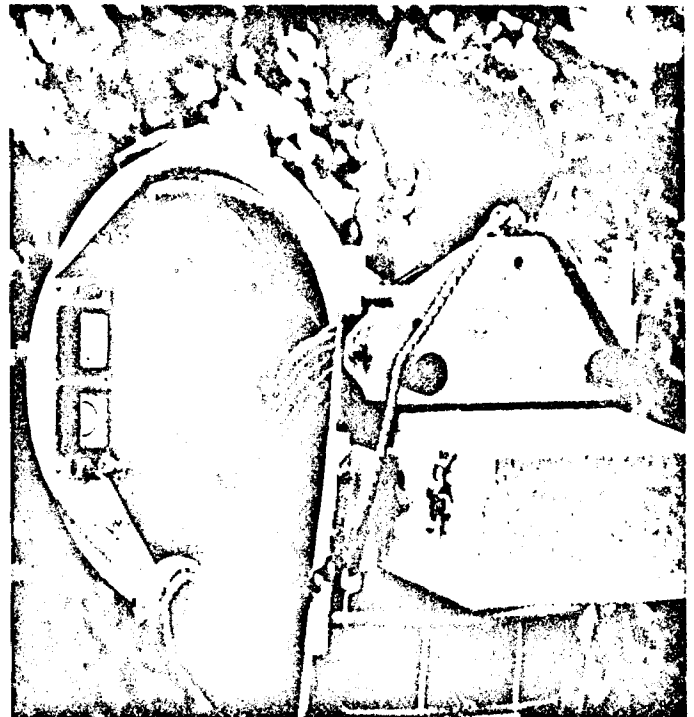
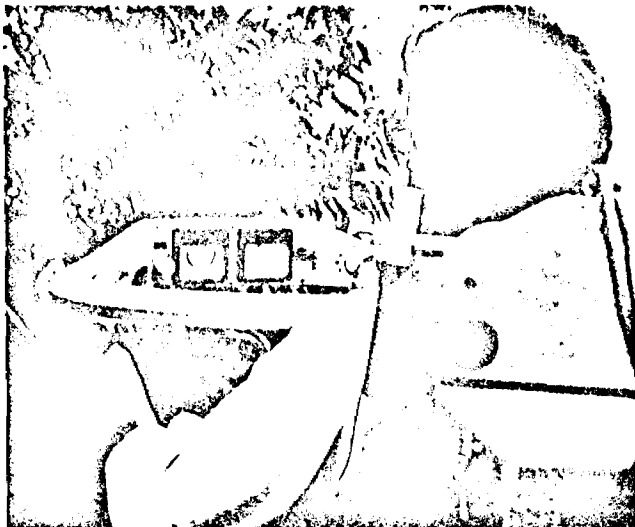
Phone: 270-0096

C E M

THE CRONE ELECTROMAGNETIC INSTRUMENT DESIGNED TO BE USED WITH THE NEW HORIZONTAL SHOOTBACK EM METHOD AS WELL AS VERTICAL LOOP AND HORIZONTAL LOOP METHODS.

The equipment consists of two identical transmitter-receiver coils capable of measuring the DIP ANGLE and FIELD STRENGTH of the EM field. Coil separations up to 600'. See the report "Deep Electromagnetic Exploration with the Horizontal Shootback Method" by D. Crone for analysis of this new method.

HORIZONTAL SHOOTBACK EM
TRANSMITTING RECEIVING



- Deep penetration.
- Accurate surveys in mountainous terrain.
- Line cutting not required.
- Precise Interpretation as to dip, conductivity and depth.
- Simple to operate.
- Rugged equipment.

SPECIFICATION OF THE CEM INSTRUMENT

This unit is composed of two identical coils both capable of receiving and transmitting at 3 fixed frequencies. All circuiting is housed within the coils. The batteries are mounted in an insulated box on a magnesium packboard.

- coil diameter 22", weight per coil 8.3 lbs.
- standard frequencies 390, 1830, 5010 Hz (others available).
- inclinometer range 200°, accuracy $\pm 1/2^\circ$.
- receiver gain control — 10 turns, linear calibrated pot.
- dip angle determined by visual minimum on Field Strength meter.
- Field Strength read directly on a meter and controlled by gain control pot.
- packboard and battery box weight each 7.0 lbs.
- battery — 6 volt lantern type — Eveready 731, Burgess TW-1.
- weight per battery 3.0 lbs.
- 1 to 3 batteries may be used connected in series.
- range for 100% Field Strength and $\pm 1^\circ$ null all frequencies,
6 volts — 400', 12 volts — 500', 18 volts — 600'.
- shipped in two wooden boxes weight 50 lbs. each.

PHAR

M700 Flux Gate Magnetometer

Rugged, reliable instrument for hand-held field operation

Self Levelling sensing head

Five scale ranges: 1,000 to 100,000 gammas

Low temperature drift

Latitude adjustment up to $\pm 100,000$ gammas

Reverse measurement polarity by turn of switch

Long battery life



M700 Flux Gate Magnetometer is a simple and efficient instrument for measuring changes in the earth's magnetic field. The two operating controls are mounted on the face of the instrument with the latitude adjustment and accessory socket concealed behind a panel on the side.

For measuring the vertical component of the earth's magnetic field, the instrument is set to zero at a chosen base station.

At each station on the survey the M700 is held roughly level, and a measurement of the increase or decrease in the magnetic field is read off the meter directly in gammas.

Measurement Ranges

1,000 gammas	20 gammas/div.
3,000 gammas	50 gammas/div.
10,000 gammas	200 gammas/div.
30,000 gammas	500 gammas/div.
100,000 gammas	2,000 gammas/div.

Sensitivity

Operating temperatures -35°C. to 55°C.
Temperature drift less than 50 gammas over entire operating range

Dimensions 4 x 7 x 10½ in. (10 x 18 x 27 cm.)

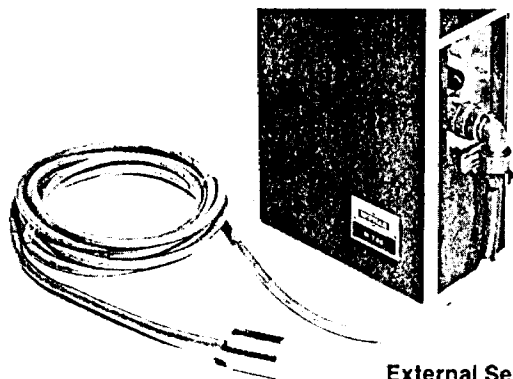
Weight

6½ pounds (3 kg.), less batteries and carrying case
8 pounds (3.8 kg.) with batteries

Batteries

Two internally mounted 9V batteries provide up to two months operation under normal conditions.

Accessories increase flexibility of the M700



External Sensing Head

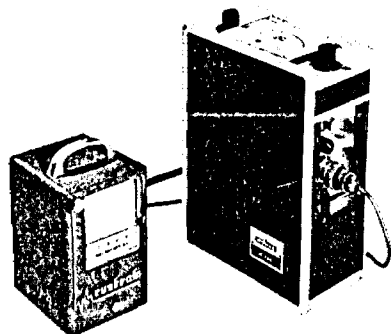
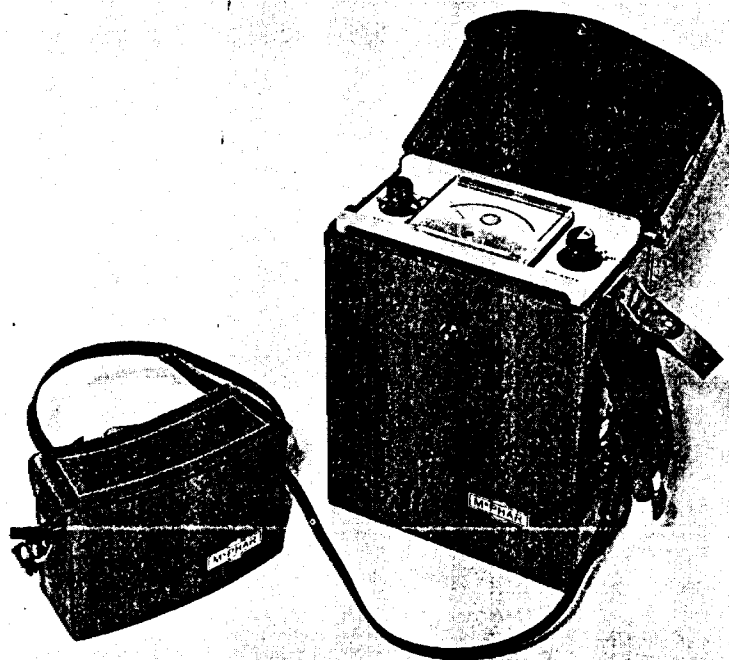


Chart Recorder



External Battery Pack

Side accessory socket allows use of:

external battery pack

chart recorder

external sensing head

horizontal sensing head

Accessory socket is located in the side panel of the M700 along with the latitude adjustment control and accessory switch. It allows the use of various pieces of equipment that extend the range of this instrument.

External Battery Pack For below freezing operation the internal batteries are removed and the external battery pack used. It is carried under the operator's clothing to prevent battery freezing. An alternate external battery pack is available consisting of 12 "C" size flashlight batteries.

Chart Recorder For long term base station monitoring an external heavy duty battery pack and chart recorder can be attached to the M700. Any current type recorder with a sensitivity of one milliamperere for full scale deflection or any potential type recorder with a sensitivity of one volt for full scale deflection can be used with the magnetometer.

External Sensing Head An external sensing head can be used on the M700 without modification to the instrument. The sensing head plugs into the accessory socket.

McPhar Geophysics Instrument Sales Offices

Canada

McPhar Geophysics Ltd.
139 Bond Street, Don Mills, Ontario
Tel.: (416) 449-5551

811 — 837 W. Hastings Street, Vancouver, B.C.
Tel.: (604) 685-3613

Singapore

McPhar (Asia) Pte. Ltd.
51 Kallang Place, Singapore 12
Tel.: 530311

Australia

McPhar Geophysics Pty. Ltd.
50 Mary Street, Unley 506, S. Australia
Tel.: 72-2133

28 Nicholson Road, Subiaco, W.A. 6008
Tel.: 841-4955

63 Alexander Street, Manly 2095, N.S.W.
Tel.: 977-4192

United States

McPhar Geophysics Inc.
818 W. Miracle Mile, Tucson, Arizona 85705
Tel.: (602) 624-2588

Philippines

McPhar Geoservices (Philippines) Inc.
P.O. Box 3279, Manila
Tel.: 50-53-06

TECK EXPLORATIONS LIMITED

NORTH BAY, ONTARIO



410155E0120 2.13284 CUNNINGHAM

040

ASSESSMENT REPORT
ON THE
GEOLOGY AND GEOPHYSICAL SURVEYS
ON BLOCK IIIB
CUNNINGHAM TOWNSHIP CLAIMS

2.13284

by

K. Thorsen

RECEIVED

MAY 07 1990

MINING LANDS SECTION

Report No. 1112NB

N.T.S. 41 O/10

04-26-90

INTRODUCTION

The Cunningham Township blocks are located approximately 15 km northeast of the town of Sultan. Block III-B is the southeastern group of four separate claim blocks. The block consists of six contiguous mining claims as shown on Fig. 2.

During June and September, 1989 lines were cut, surveyed magnetically and electromagnetically and geologically mapped.

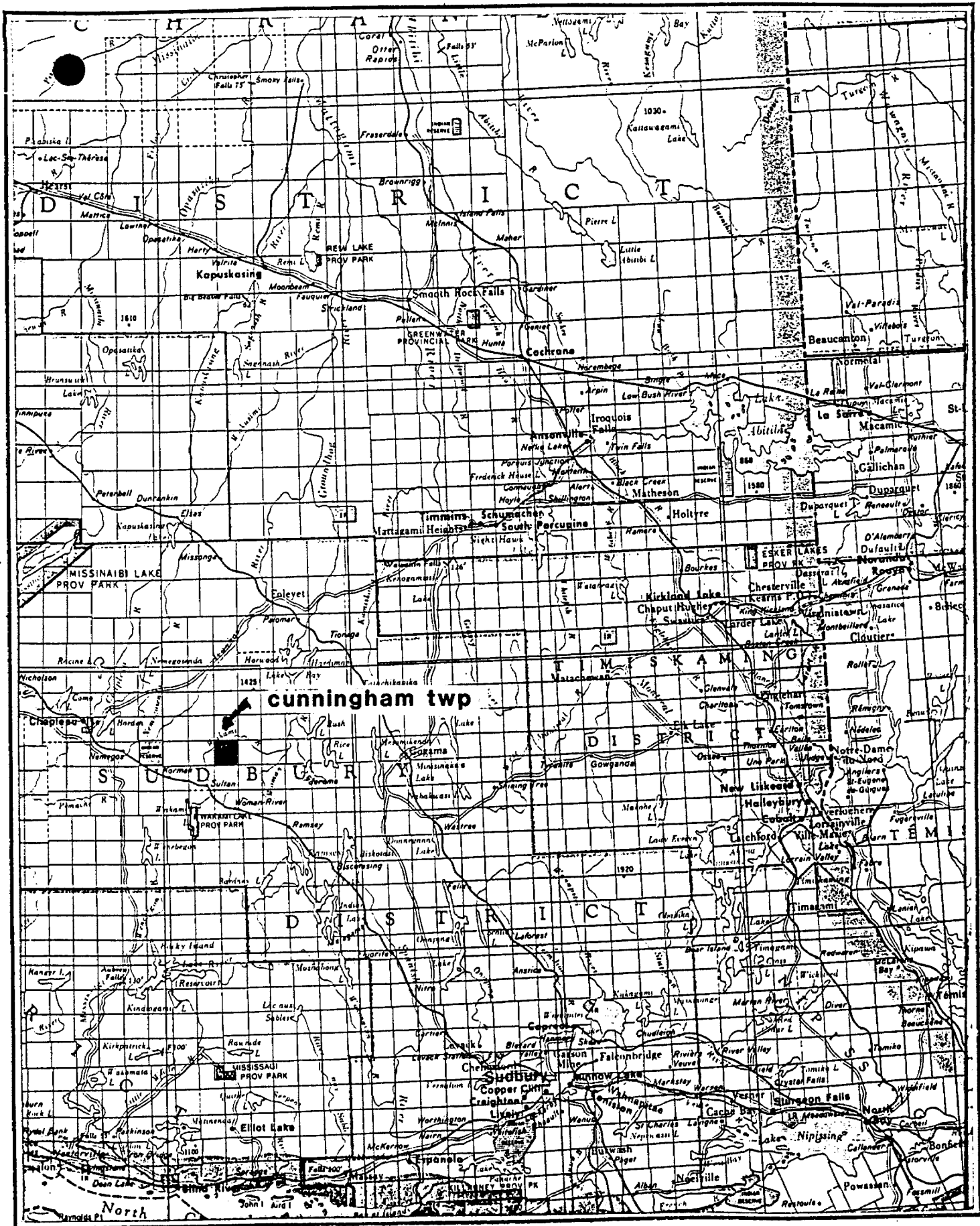
LOCATION AND ACCESS

The claims are located 15 km northeast of Sultan, a small town on the C.P.R. rail line. Chapleau is approximately 45 km west-northwest of the block.

Access is attained through several lumber roads constructed during the last few years. The northwest corner of Block IIIB is traversed by gravel logging roads.

TOPOGRAPHY AND VEGETATION

The topography is gently rolling - typical of Precambrian Shield terrain. Stands of spruce and pine have been cut recently leaving groves of poplar and birch. The swampy areas on the grid are generally foliated with small cedar trees.



LOCATION MAP

1 inch equals approximately 32 miles

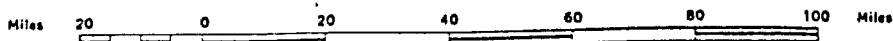
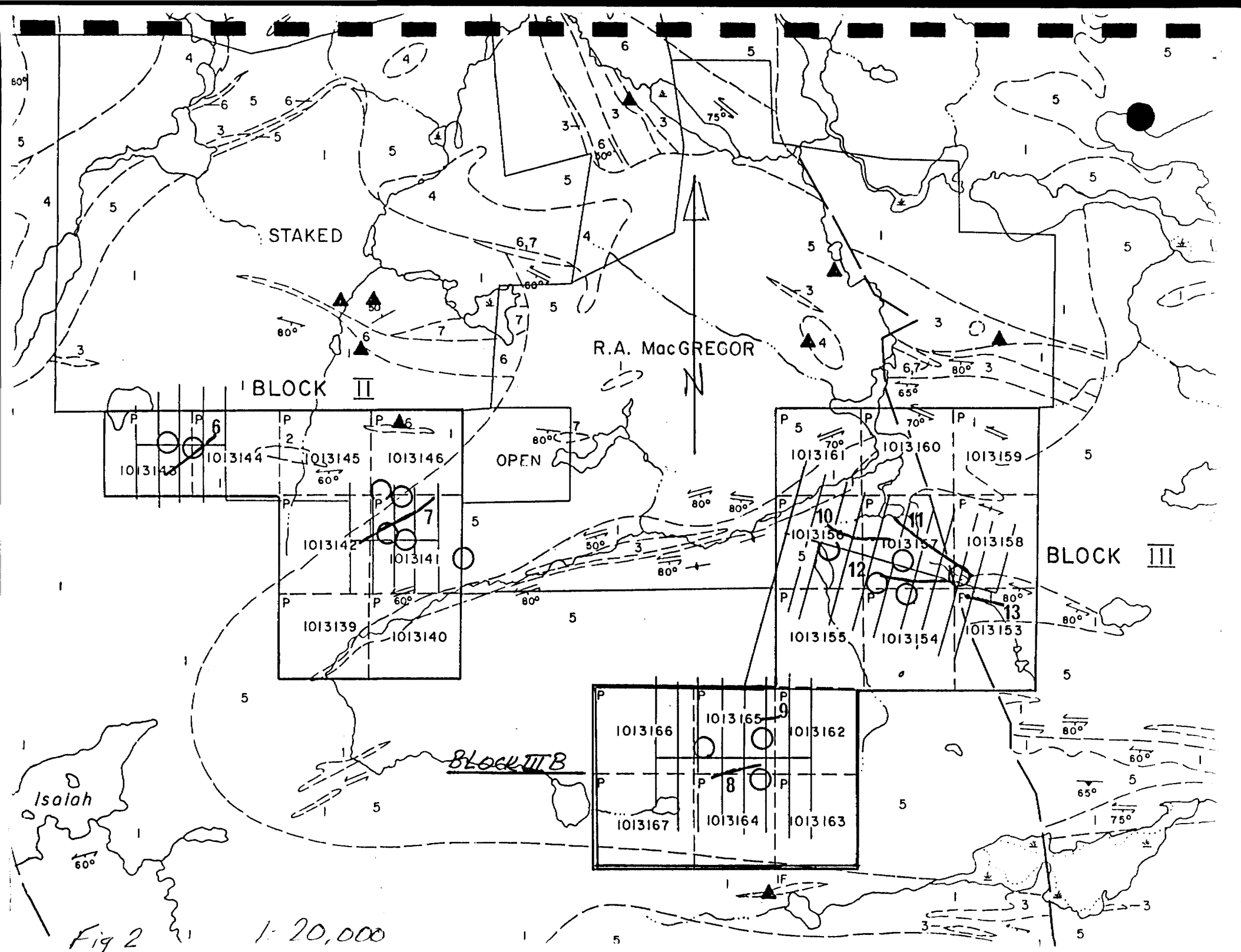


Figure. 1



WORK DONE

A grid was established using a base line and cross lines at 100-metre intervals to cover airborne E.M. anomalies. Stations were established at 25-metre intervals along cross lines.

The lines were surveyed electromagnetically using a Crone CEM shootback instrument in the horizontal mode. Readings were taken at 25-metre intervals using the 390 Hz frequency.

A McPhar Fluxgate magnetometer was used to survey the grid magnetically. Readings were taken at 25-metre intervals and were corrected for diurnal variation by comparing the readings to those taken at an established base station along the base line.

The lines were walked by a geologist and notes were taken on topography, vegetation, outcrop locations and rock types. Scouting between lines reduced the chances of missing any outcrop.

The data from the geophysical surveys and geological mapping was plotted at a scale of 1:2500 and is shown on Dwgs. 6525a, 6525b and 6525c.

RESULTS

Crone CEM

Conductor #8 is relatively strong, 100 metres long and strikes 060°.

Conductor #9 is weak, questionable, 100 metres long and parallels the strike of #8. The CEM survey is relatively noisy indicating shallow overburden depths.

Magnetometer

Both conductors flank the ends of relatively strong magnetic highs. The data is spiky - also an indication of shallow overburden.

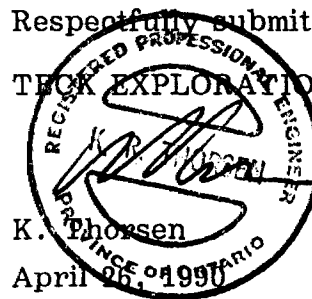
Geology

The grid is primarily underlain by massive, medium-grained mafic lavas. An intermediate tuff unit occupies the northwest corner of the grid. Trenching of conductor #8 revealed a thin, pyritic, graphitic argillite to be the conductive source.

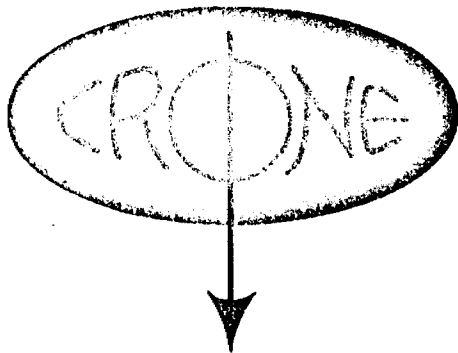
RECOMMENDATIONS

Conductor #8 has been explained as barren graphitic argillite and conductor #9 may not be caused by a real conductive source. No further work is recommended at this time, although the claims should be retained pending the results on Block IIIA.

Respectfully submitted,
TECK EXPLORATIONS LIMITED



REP-0039/sm



CRONE GEOPHYSICS LIMITED

3607 WOLFEDALE ROAD,
MISSISSAUGA, ONTARIO,
CANADA.

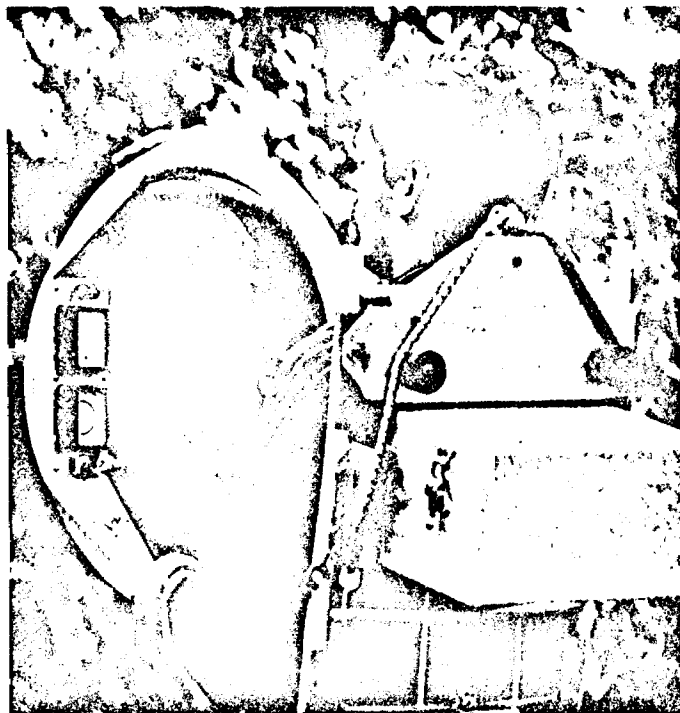
Phone: 270-0096

C E M

THE CRONE ELECTROMAGNETIC INSTRUMENT DESIGNED TO BE USED WITH THE NEW HORIZONTAL SHOOTBACK EM METHOD AS WELL AS VERTICAL LOOP AND HORIZONTAL LOOP METHODS.

The equipment consists of two identical transmitter-receiver coils capable of measuring the DIP ANGLE and FIELD STRENGTH of the EM field. Coil separations up to 600'. See the report "Deep Electromagnetic Exploration with the Horizontal Shootback Method" by D. Crone for analysis of this new method.

HORIZONTAL SHOOTBACK EM
TRANSMITTING RECEIVING



- Deep penetration.
- Accurate surveys in mountainous terrain.
- Line cutting not required.
- Precise interpretation as to dip, conductivity and depth.
- Simple to operate.
- Rugged equipment.

SPECIFICATION OF THE CEM INSTRUMENT

This unit is composed of two identical coils both capable of receiving and transmitting at 3 fixed frequencies. All circuiting is housed within the coils. The batteries are mounted in an insulated box on a magnesium packboard.

- coil diameter 22", weight per coil 8.3 lbs.
- standard frequencies 390, 1830, 5010 Hz (others available).
- inclinometer range 200°, accuracy $\pm 1/2^\circ$.
- receiver gain control — 10 turns, linear calibrated pot.
- dip angle determined by visual minimum on Field Strength meter.
- Field Strength read directly on a meter and controlled by gain control pot.
- packboard and battery box weight each 7.0 lbs.
- battery — 6 volt lantern type — Eveready 731, Burgess TW-1.
- weight per battery 3.0 lbs.
- 1 to 3 batteries may be used connected in series.
- range for 100% Field Strength and $\pm 1^\circ$ null all frequencies,
6 volts — 400', 12 volts — 500', 18 volts — 600'.
- shipped in two wooden boxes weight 50 lbs. each.

McPHAR

M700 Flux Gate Magnetometer

Rugged, reliable instrument for hand-held field operation

Self Levelling sensing head

Five scale ranges: 1,000 to 100,000 gammas

Low temperature drift

Latitude adjustment up to $\pm 100,000$ gammas

Reverse measurement polarity by turn of switch

Long battery life



M700 Flux Gate Magnetometer is a simple and efficient instrument for measuring changes in the earth's magnetic field. The two operating controls are mounted on the face of the instrument with the latitude adjustment and accessory socket concealed behind a panel on the side.

For measuring the vertical component of the earth's magnetic field, the instrument is set to zero at a chosen base station.

At each station on the survey the M700 is held roughly level, and a measurement of the increase or decrease in the magnetic field is read off the meter directly in gammas.

Measurement Ranges

Sensitivity

1,000 gammas	20 gammas/div.
3,000 gammas	50 gammas/div.
10,000 gammas	200 gammas/div.
30,000 gammas	500 gammas/div.
100,000 gammas	2,000 gammas/div.

Operating temperatures -35° C. to 55° C.
Temperature drift less than 50 gammas over entire operating range

Dimensions 4 x 7 x 10½ in. (10 x 18 x 27 cm.)

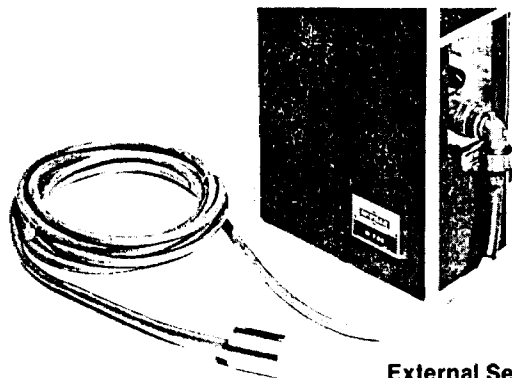
Weight

6½ pounds (3 kg.), less batteries and carrying case
8 pounds (3.8 kg.) with batteries

Batteries

Two internally mounted 9V batteries provide up to two months operation under normal conditions.

Accessories increase flexibility of the M700



External Sensing Head

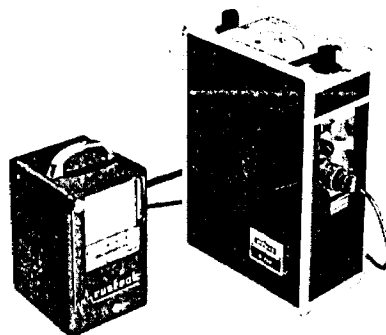
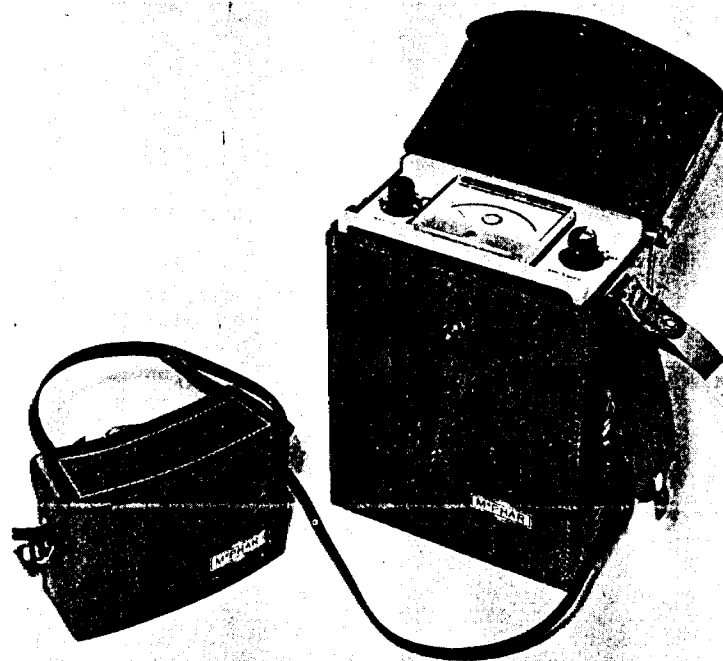


Chart Recorder



External Battery Pack

Side accessory socket allows use of:

- external battery pack**
- chart recorder**
- external sensing head**
- horizontal sensing head**

Accessory socket is located in the side panel of the M700 along with the latitude adjustment control and accessory switch. It allows the use of various pieces of equipment that extend the range of this instrument.

External Battery Pack For below freezing operation the internal batteries are removed and the external battery pack used. It is carried under the operator's clothing to prevent battery freezing. An alternate external battery pack is available consisting of 12 "C" size flashlight batteries.

Chart Recorder For long term base station monitoring an external heavy duty battery pack and chart recorder can be attached to the M700. Any current type recorder with a sensitivity of one milliamperer for full scale deflection or any potential type recorder with a sensitivity of one volt for full scale deflection can be used with the magnetometer.

External Sensing Head An external sensing head can be used on the M700 without modification to the instrument. The sensing head plugs into the accessory socket.

McPhar Geophysics Instrument Sales Offices

Canada
 McPhar Geophysics Ltd.
 139 Bond Street, Don Mills, Ontario
 Tel.: (416) 449-5551

811 — 837 W. Hastings Street, Vancouver, B.C.
 Tel.: (604) 685-3613

Singapore
 McPhar (Asia) Pte. Ltd.
 51 Kallang Place, Singapore 12
 Tel.: 530311

Australia
 McPhar Geophysics Pty. Ltd.
 50 Mary Street, Unley 506, S. Australia
 Tel.: 72-2133

28 Nicholson Road, Subiaco, W.A. 6008
 Tel.: 841-4955

63 Alexander Street, Manly 2095, N.S.W.
 Tel.: 977-4192

United States
 McPhar Geophysics Inc.
 818 W. Miracle Mile, Tucson, Arizona 85705
 Tel.: (602) 624-2588

Philippines
 McPhar Geoservices (Philippines) Inc.
 P.O. Box 3279, Manila
 Tel.: 50-53-06



Ministry of Northern Development and Mines

Ontario

DOCUMENT NO. W 9006-60291

Instructions

April 9

Block I



41015SE0120 2.13284 CUNNINGHAM

900

Report of Work
(Geophysical, Geological and Geochemical Surveys)

Mining Act

Type of Survey(s) Geophysical (EM & Magnetics)	Mining Locality Porcupine	Cunningham Twp
Recorded Holder(s) Teck Explorations Limited	2.13284	Prospector's Licence No. A32498
Address P.O. Box 170, Suite 7000, 1 First Canadian Place, Toronto, M5X 1G9		Telephone No. 416-862-7102
Survey Company Teck Explorations Limited, 2189 Algonquin Avenue, North Bay, P1B 4Z3		
Name and Address of Author (of Geo-Technical Report) K. Thorsen, 2189 Algonquin Avenue, North Bay, P1B 4Z3		Date of Survey (from & to) 04 07 89 05 10 89 Day Mo Yr. Day Mo Yr.

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	
For each additional survey using the same grid: Enter 20 days (for each)	- Other	
	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	16.9
	- Magnetometer	7.7
	- Other	2.6
	Geological	
	Geochemical	
Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Other	
Total miles flown over claim(s)		
Date Mar 6/90	Recorded Holder or Agent (Signature) <i>K. Thorsen</i>	

Mining Claim		Mining Claim		Mining Claim	
Prefix	Number	Prefix	Number	Prefix	Number
P	961130	P	1013171		
P	961131	P	1013172		
P	961132				
P	961133				
P	961134				
P	961135				
P	961136				
P	1013133				
P	1013147				
P	1013148				
P	1013149				
P	1013150				
P	1013151				
P	1013152				
P	1013168				
P	1013169				
P	1013170				

RECEIVED
APR 27 1990
MINING LANDS SECTION

RECORDED
MAR - 9 1990

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

Certification Verifying Report of Work

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

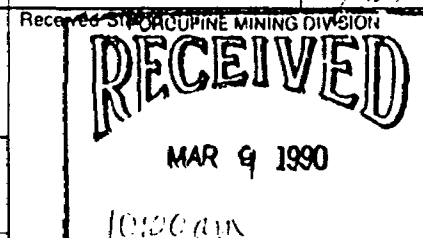
Name and Address of Person Certifying
K. Thorsen, 2189 Algonquin Avenue, North Bay, Ontario, P1B 4Z3

Telephone No. 705-474-5500	Date Mar 6/90	Certified By (Signature) <i>K. Thorsen</i>
-------------------------------	------------------	---

For Office Use Only

Total Days Cr. Recorded 516.00	Date Recorded MAR. 9/90	Mining Recorder <i>S. White</i> Mining Recorder
	Date Approved as Recorded <i>S. White</i>	Provincial Manager, Mining Lands

See record work statement



Assessment Work Breakdown

Man Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc..

Type of Survey Geophysical - MaxMin II Horizontal Loop								
Technical Days		Technical Days Credits		Line-cutting Days	Total Credits	No. of Claims	Days per Claim	
42	X	7	=	294	+	27	=	
					321	+	19	
							=	16.9

Type of Survey Geophysical - Magnetics								
Technical Days		Technical Days Credits		Line-cutting Days	Total Credits	No. of Claims	Days per Claim	
21	X	7	=	147	+		=	
					147	+	19	
							=	7.7

Type of Survey Drafting								
Technical Days		Technical Days Credits		Line-cutting Days	Total Credits	No. of Claims	Days per Claim	
7	X	7	=	49	+		=	
					49	+	19	
							=	2.6

Type of Survey							
Technical Days		Technical Days Credits		Line-cutting Days	Total Credits	No. of Claims	Days per Claim
	X	7	=		+		=
						+	

Linecutting - Fred Blake - July 4 to July 12, 1989
 - E. Cote - July 4 to July 12, 1989
 - B. Wabi - July 4 to July 12, 1989

MaxMin II - Fred Blake - July 13 to August 2, 1989
 - E. Cote - July 13 to August 2, 1989

Magnetics - B. Wabi - July 13 to August 2, 1989

Drafting - B. Hopkins - October 2 to October 5, 1989
 - C. Knapp - October 2 to October 4, 1989

Assessment Work Breakdown

Man Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc..

Type of Survey Geophysical - CEM												
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	+	No. of Claims	=	Days per Claim
10		7		70		6		76		8		9.5

Type of Survey Geophysical - Magnetometer												
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	+	No. of Claims	=	Days per Claim
5		7		35				35		8		4.4

Type of Survey Geological Mapping												
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	+	No. of Claims	=	Days per Claim
5		7		35				35		8		4.4

Type of Survey Drafting												
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	+	No. of Claims	=	Days per Claim
4		7		28				28		8		3.5

Line Cutting - F. Blake - June 10 to June 11, 1989
 E. Cote - June 10 to June 11, 1989
 B. Wabi - June 10 to June 11, 1989

CEM - F. Blake - June 12 to June 16, 1989

- E. Cote - June 12 to June 16, 1989

Mag - B. Wabi - June 12 to June 16, 1989

Geology - A. Christopher - Sept. 10 to Sept. 12, 1989 (2½ days)

- D. Owens - Sept. 10 to Sept. 12, 1989 (2½ days)

Drafting - B. Hopkins - Oct. 12 to Oct. 13, 1989

- C. Knapp - Oct. 12 to Oct. 13, 1989



Ministry of Northern Development and Mines

Copy sent

DOCUMENT No. **W 9006-60289**

Contacted April 9

Block III

- Instructions
- Please type or print.
 - Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.
 - If number of mining claims traversed exceeds space on this form, attach a list.
 - Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch:

Report of Work
(Geophysical, Geological and Geochemical Surveys)

Mining Act

Type of Survey(s) Geophysical (EM & Magnetics)	Mining Division Porcupine	Township or Area Cunningham Twp
Recorded Holder(s) Teck Explorations Limited	2.13284	
Address P.O. Box 170, Suite 7000, 1 First Canadian Place, Toronto, M5X 1G9		Prospector's Licence No. A32498
Survey Company Teck Explorations Limited, 2189 Algonquin Avenue, North Bay, P1B 4Z3		Telephone No. 416-862-7102
Name and Address of Author (of Geo-Technical Report) K. Thorsen, 2189 Algonquin Avenue, North Bay, P1B 4Z3		Date of Survey (from & to) Day Mo. Yr. Day Mo. Yr. 04 07 89 05 10 89

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	
For each additional survey: using the same grid:	- Other	
Enter 20 days (for each)	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	8.9
	- Magnetometer	3.9
	- Other	3.9
	Geological	3.9
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Other	
Total miles flown over claim(s).		
Date Mar 6/90	Recorded Holder or Agent (Signature)	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Mining Claim		Mining Claim	
Prefix	Number	Prefix	Number	Prefix	Number
P	1013153				
P	1013154				
P	1013155				
P	1013156				
P	1013157				
P	1013158				
P	1013159				
P	1013160				
P	1013161				
RECEIVED					
APR 27 1990					
MINING LANDS SECTION					
RECORDED					
MAR 9 1990					
Total number of mining claims covered by this report of work.					9

Certification Verifying Report of Work

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

Name and Address of Person Certifying
K. Thorsen, 2189 Algonquin Avenue, North Bay, Ontario, P1B 4Z3

Telephone No. 705-474-5500	Date Mar 6/90	Certified By (Signature)
--------------------------------------	-------------------------	--------------------------

For Office Use Only

Total Days Cr. Recorded 185.4	Date Recorded MAR. 9/90	Mining Recorder <i>[Signature]</i> Mining Recorder
	Date Approved as Recorded June 14/90	Provincial Manager, Mining Lands

RECEIVED

MAR 9 1990

[Signature]

Assessment Work Breakdown

Man Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc..

Type of Survey Geophysical - CEM												
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	÷	No. of Claims	=	Days per Claim
10				70		10		80		9		8.9

Type of Survey Geophysical - Magnetics												
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	÷	No. of Claims	=	Days per Claim
5				35				35		9		3.9

Type of Survey Geological												
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	÷	No. of Claims	=	Days per Claim
5				35				35		9		3.9

Type of Survey Drafting												
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	÷	No. of Claims	=	Days per Claim
5				35				35		9		3.9

Linecutting - Fred Blake - May 25 to May 28, 1989
 - E. Cote - May 25 to May 27, 1989
 - B. Wabi - May 25 to May 27, 1989

CEM Survey - Fred Blake - May 29 to June 2, 1989
 - E. Cote - May 29 to June 2, 1989

Magnetics - B. Wabi - May 29 to June 2, 1989

Drafting - B. Hopkins - Oct. 6 to Oct. 7, 1989
 - C. Knapp - Oct. 5 to Oct. 7, 1989

Geological - A. Christopher - Sept. 5 to Sept. 7, 1989 (2½ days)
 - D. Owens - Sept. 5 to Sept. 7, 1989 (2½ days)

Assessment Work Breakdown

man Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc..

Type of Survey Geophysical - CEM							
Technical Days		Technical Days Credits		Line-cutting Days	Total Credits	No. of Claims	Days per Claim
8	X	7	=	56	+	8	=
				64	÷	6	=
						10.7	

Type of Survey Geophysical - Magnetics							
Technical Days		Technical Days Credits		Line-cutting Days	Total Credits	No. of Claims	Days per Claim
4	X	7	=	28	+	0	=
				28	÷	6	=
						4.7	

Type of Survey Geological							
Technical Days		Technical Days Credits		Line-cutting Days	Total Credits	No. of Claims	Days per Claim
4	X	7	=	28	+	0	=
				28	÷	6	=
						4.7	

Type of Survey Drafting							
Technical Days		Technical Days Credits		Line-cutting Days	Total Credits	No. of Claims	Days per Claim
4	X	7	=	28	+	0	=
				28	÷	6	=
						4.7	

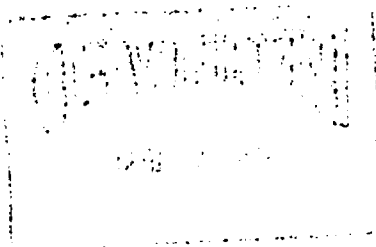
Linecutting - Fred Blake - June 3 to June 4, 1989
 - E. Cote - June 3 to June 5, 1989
 - B. Wabi - June 3 to June 5, 1989

CEM Survey - Fred Blake - June 6 to June 9, 1989
 - E. Cote - June 6 to June 9, 1989

Magnetics - B. Wabi - June 6 to June 9, 1989

Geological - A. Christopher - Sept. 8 to Sept. 9, 1989
 - D. Owens - Sept. 8 to Sept. 9, 1989

Drafting - B. Hopkins - Oct. 8 to Oct. 11, 1989





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 (EM & Mag)
Township or Area Cunningham Township
Claim Holder(s) Teck Explorations Limited
Survey Company Teck Explorations Limited
Author of Report K. Thorsen
Address of Author 2189 Algonquin Ave, North Bay, Ont, P1B4Z3
Covering Dates of Survey April 7/89 to May 10/89
Total Miles of Line Cut 22.6 km

Table with 3 columns: SPECIAL PROVISIONS CREDITS REQUESTED, Geophysical, Geological, Geochemical, and DAYS per claim. Includes entries for Electromagnetic (16.9), Magnetometer (7.7), and Radiometric (2.6).

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

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

DATE: April 26/90 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications 2.2012

Previous Surveys

Table with 4 columns: File No., Type, Date, Claim Holder. Multiple empty rows for data entry.

MINING CLAIMS TRAVERSED List numerically. Table with 2 columns: (prefix) and (number). Lists claim numbers from 961130 to 1013172, ending with TOTAL CLAIMS 19.

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations MaxMin II 645 Mag 770 Number of Readings MaxMin II 3,870 Mag 770
Station interval 25 m Line spacing 100 m
Profile scale 1 cm = 10%
Contour interval 100 gm to 1000 gm, 1500 gammas

MAGNETIC

Instrument McPhar Fluxgate
Accuracy - Scale constant ±5 gammas
Diurnal correction method Base stations
Base Station check-in interval (hours) Hourly or less
Base Station location and value BL at 13W (510 g), BL at 1W (500 g)
BL at 26+50W (580 g), BL at 39+50W (630 g)

ELECTROMAGNETIC

Instrument MaxMin II
Coil configuration Horizontal
Coil separation 100 m
Accuracy ±1%
Method: [] Fixed transmitter [] Shoot back [X] In line [] Parallel line
Frequency 444 Hz, 1777 Hz, 3555 Hz (specify V.L.F. station)
Parameters measured In phase & quadrature parameters 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 _____

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations CEM 165 Mag 217 Number of Readings CEM 330 Mag 217
Station interval 25 m Line spacing 100 m
Profile scale 1 cm = 10%
Contour interval 100 g to 500 g, 500 g over 500 gammas

MAGNETIC

Instrument McPhar Fluxgate
Accuracy - Scale constant +/- 5 g
Diurnal correction method Base stations
Base Station check-in interval (hours) Hourly or less
Base Station location and value NW grid - line 4E, 0+00 (200 g)
SE grid - line 0, 0+00 (300 g)

ELECTROMAGNETIC

Instrument Crone CEM
Coil configuration Horizontal
Coil separation 100 m
Accuracy +/- 1 degree
Method: [] Fixed transmitter [X] Shoot back [] In line [] Parallel line
Frequency 390 Hz (specify V.L.F. station)
Parameters measured Parameters 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 _____

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations CEM 240 Mag 284 Number of Readings CEM 480 Mag 284
Station interval 25 m Line spacing 100 m
Profile scale 1 cm = 10%
Contour interval 100 gammas to 1000 gammas

MAGNETIC

Instrument McPhar Fluxgate
Accuracy - Scale constant ±5 gammas
Diurnal correction method Base stations
Base Station check-in interval (hours) Hourly or less
Base Station location and value L2+00mE, 0+00, 520 g

ELECTROMAGNETIC

Instrument Crone CEM
Coil configuration Horizontal
Coil separation 100 m
Accuracy ±1%
Method: Fixed transmitter Shoot back In line Parallel line
Frequency 390 Hz
(specify V.L.F. station)
Parameters measured Parameters 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 _____

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations CEM 195 Mag 226 Number of Readings CEM 390 Mag 226
Station interval 25 m Line spacing _____
Profile scale 1 cm = 10%
Contour interval 100 g to 1000 g, 1000 g above 1000 g

MAGNETIC

Instrument McPhar Fluxgate
Accuracy - Scale constant ±5 g
Diurnal correction method Base station
Base Station check-in interval (hours) Hourly or less
Base Station location and value L1+00mE, 0+00 - 580 g

ELECTROMAGNETIC

Instrument Crone CEM
Coil configuration Horizontal
Coil separation 100 m
Accuracy ±1%
Method: Fixed transmitter Shoot back In line Parallel line
Frequency 390 Hz (specify V.L.F. station)
Parameters measured Parameters 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 _____



Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

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

Telephone: (416) 965-4888

Your File: W9006-60291
Our File : 2.13284

July 12, 1990

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

Dear Sir:

RE: Notice of Intent dated June 11, 1990 for Geophysical
(Electromagnetic, Magnetometer & other) Survey submitted
on Mining Claim P 961130 et al in Cunningham 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 and Minerals Division

DM/dvl
Enclosure

cc: Mr. W. D. Tieman
Mining and Lands Commissioner
Toronto, Ontario

Resident Geologist
Timmins, Ontario

Teck Explorations Limited
Toronto, Ontario

Teck Explorations Limited
North Bay, Ontario



Recorded Holder
Teck Explorations Limited

Township or Area
Cunningham Twp.

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic <u>16.9</u> days Magnetometer <u>7.7</u> days Radiometric _____ days Induced polarization _____ days Other <u>2.6</u> days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input checked="" type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input 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 961130 to 133 incl. 961134 to 136 incl. 1013148 to 152 incl. 1013169 to 172 incl.

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

P 1013133, 1013147, 1013168

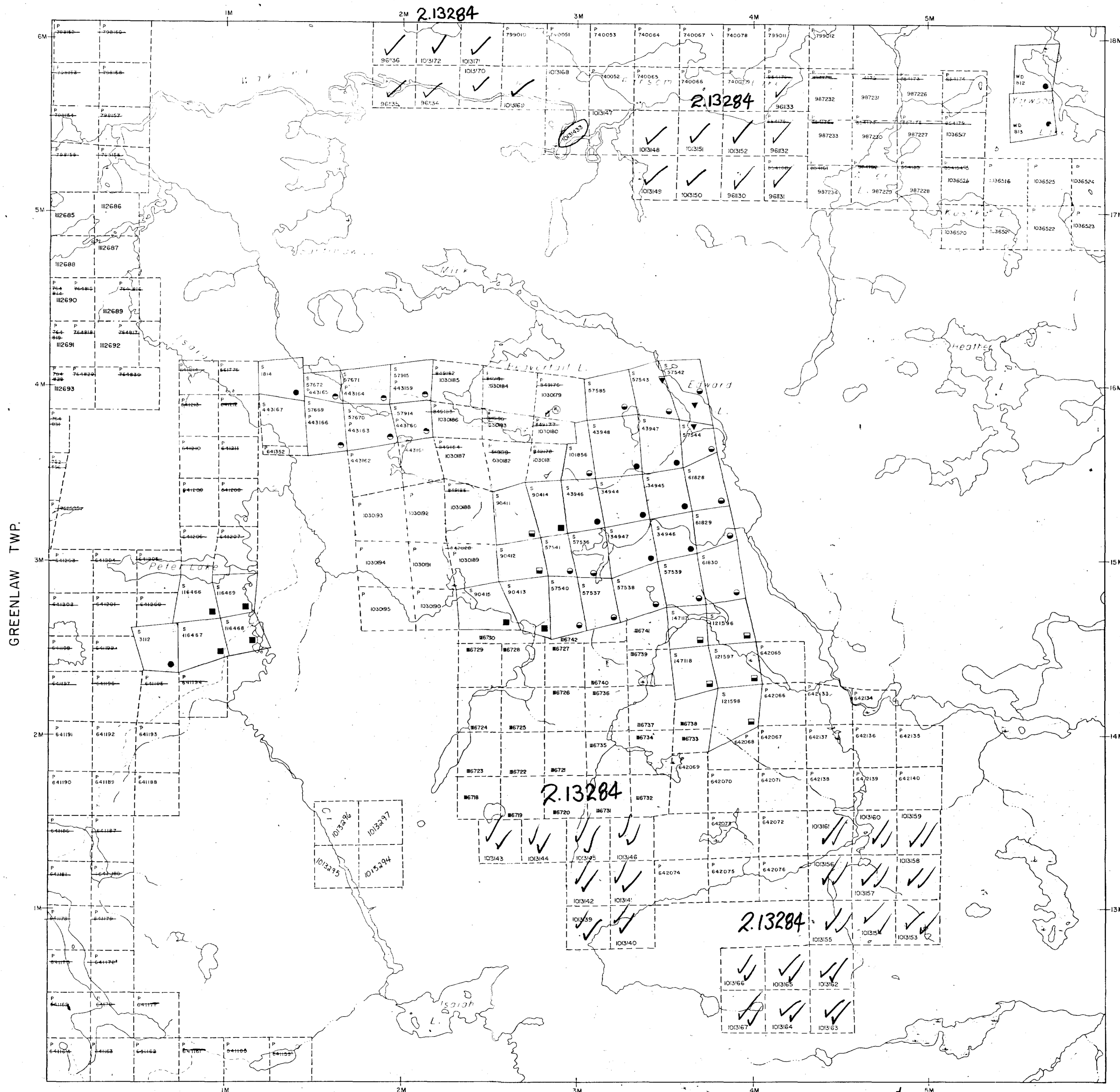
AREAS WITHDRAWN FROM DISPOSITION

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

Description Order No. Date Disposition File

☐ CROWN RESERVE

SWAYZE TWP.



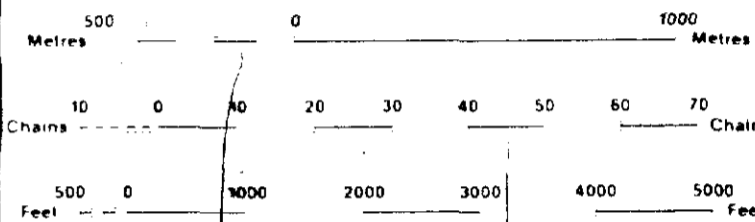
LEGEND

- HIGHWAY AND ROUTE NO.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIP BASE LINES ETC.
- LOTS, MINING CLAIMS, PARCELS ETC.
- UNSURVEYED LINES
- ENTRANCES
- PARCEL BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NATURAL OR ARTIFICIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKIEG
- MINES
- TRAVERSE MONUMENT

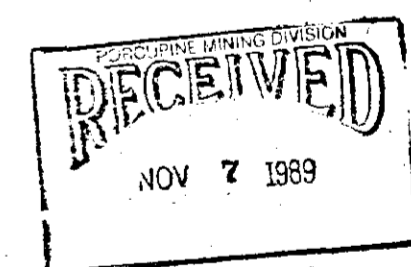
DISPOSITION OF CROWN LANDS

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 PATENTEES BY THE PUBLIC LANDS ACT (R.S.O. 1910 CHAP. 380, SEC. 63, SUBSEC. 1)



SCALE 1:20 000



TOWNSHIP
CUNNINGHAM

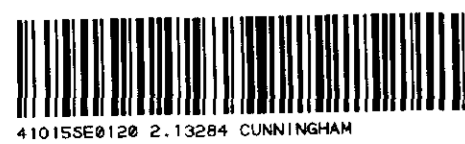
M.N.R. ADMINISTRATIVE DISTRICT
CHAPLEAU
MINING DIVISION
PORCUPINE
LAND TITLES / REGISTRY DIVISION
SUDBURY

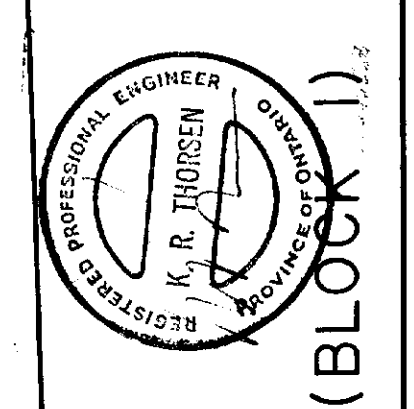
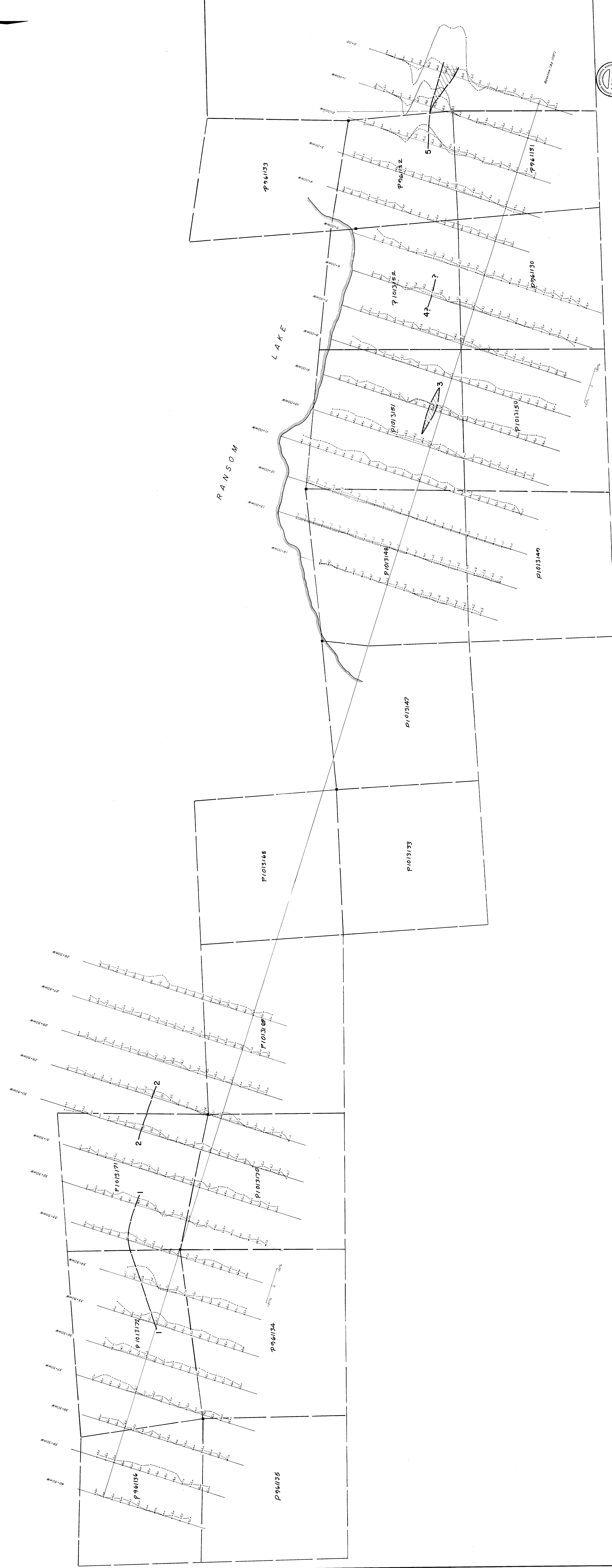
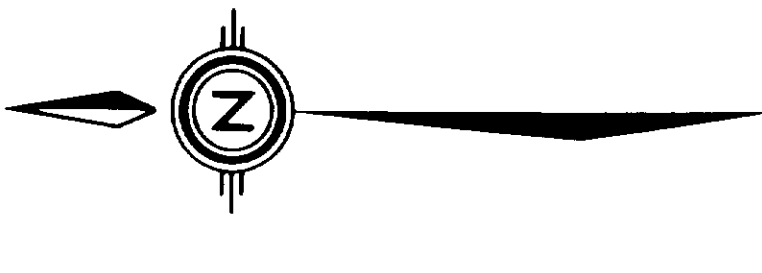
Ministry of Natural Resources Ontario
Ministry of Northern Development and Mines

DATE: AUGUST, 1988
Number: **G-1095**

BLAMEY TWP.

- em + mag
- geol.

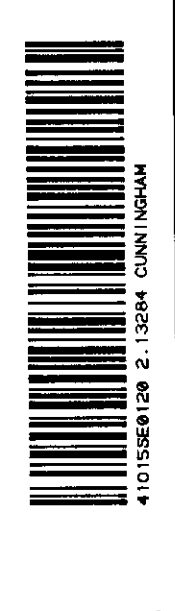




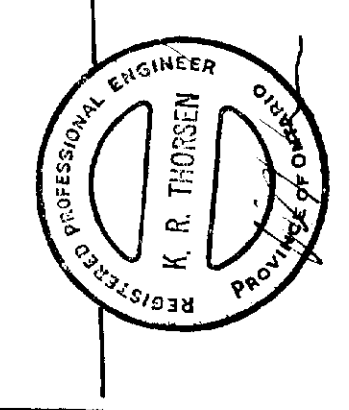
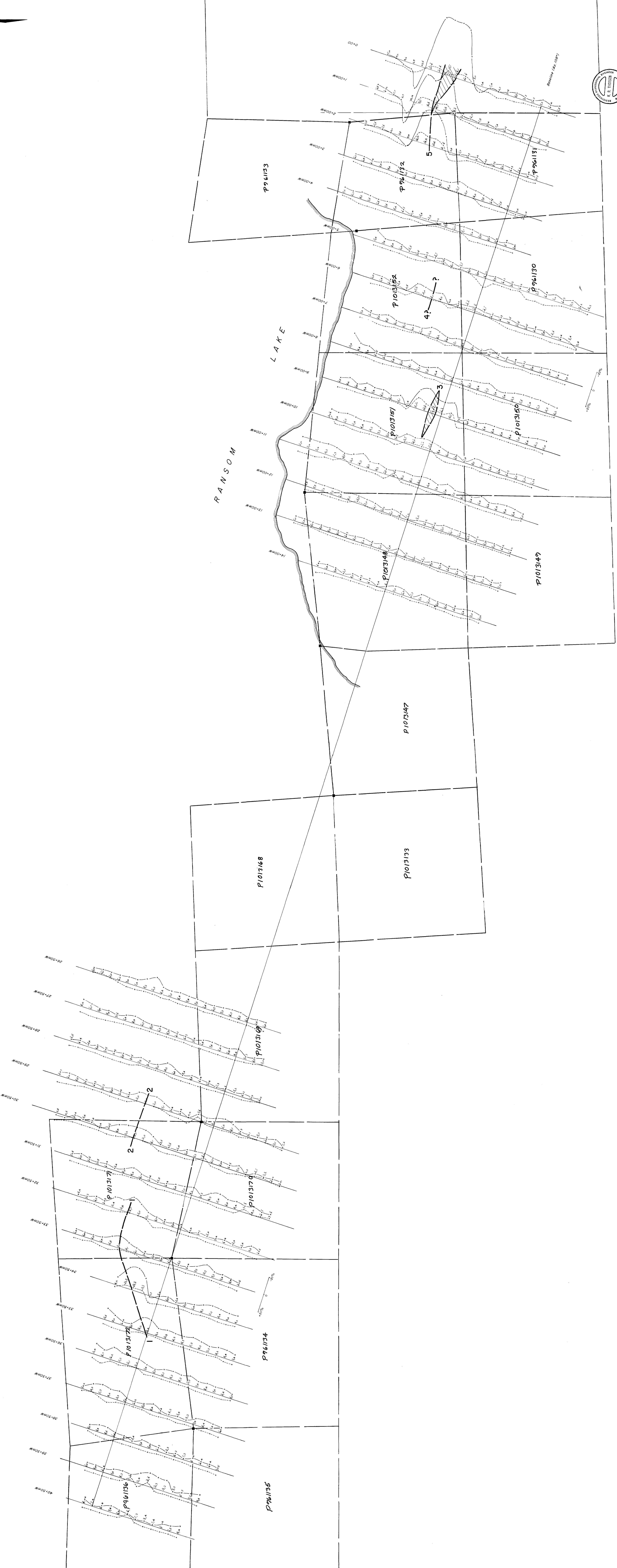
2.13284
(BLOCK 1)

Teck Explorations Limited
ELECTROMAGNETIC SURVEY
 CUNNINGHAM TWP. PROPERTY
 CUNNINGHAM TWP., ONTARIO

PROJECT: 2.13284
 PARAMETRICS: MAGN. II
 STATION: F. BLAKE, E. COTE
 ELEVATION: 100m
 COLLECTOR: [Name]
 FREQUENCY: 400 Hz



4107/10
 1054
 65230

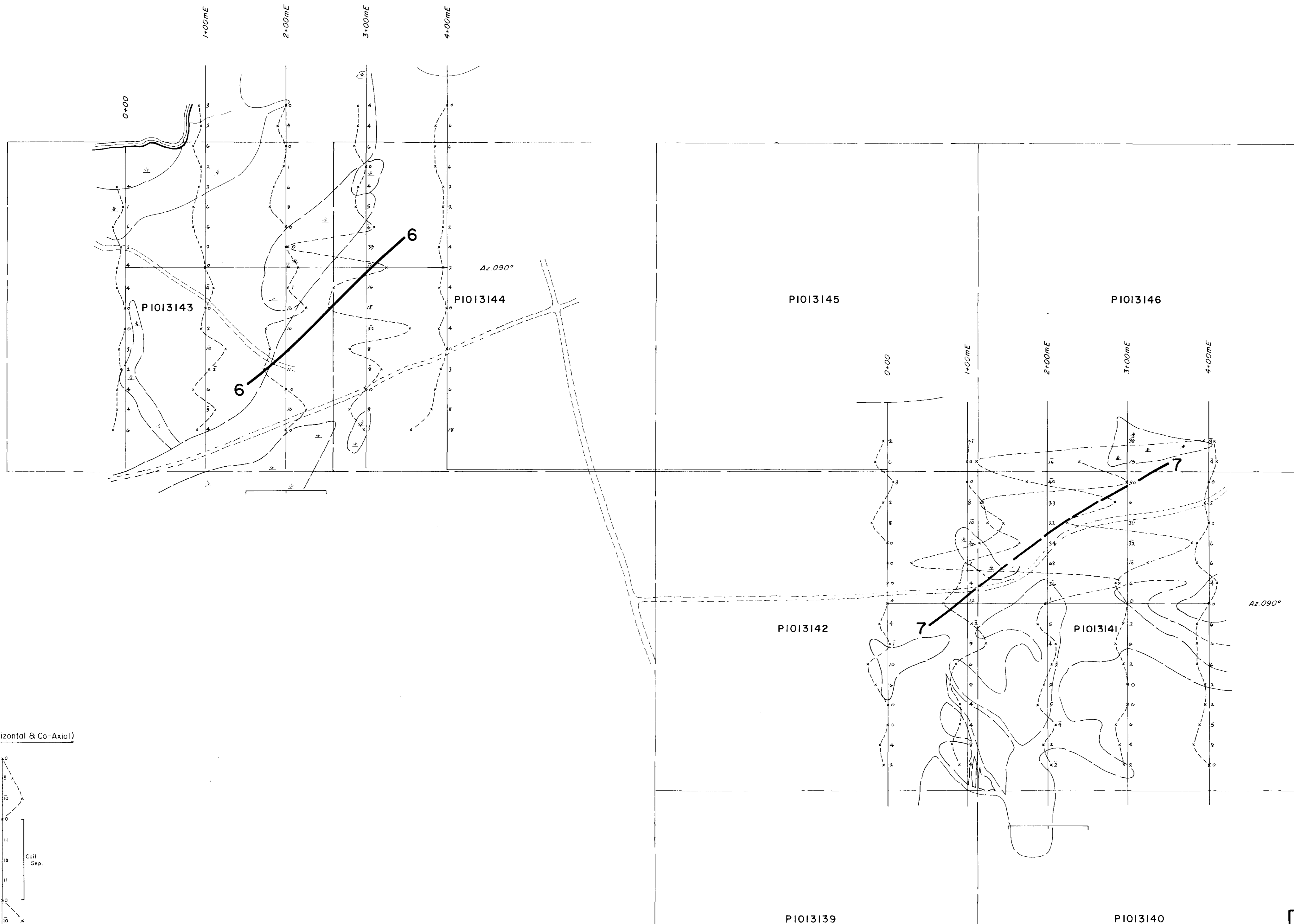
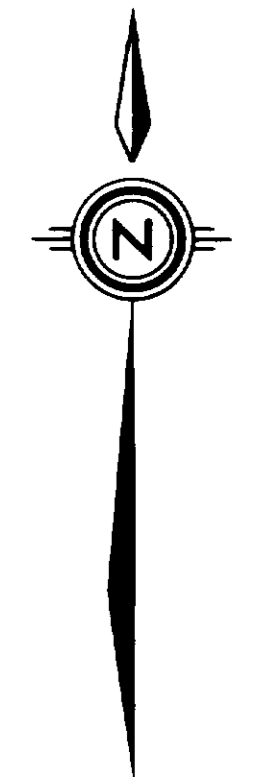


2.13284
(BLOCK 1)

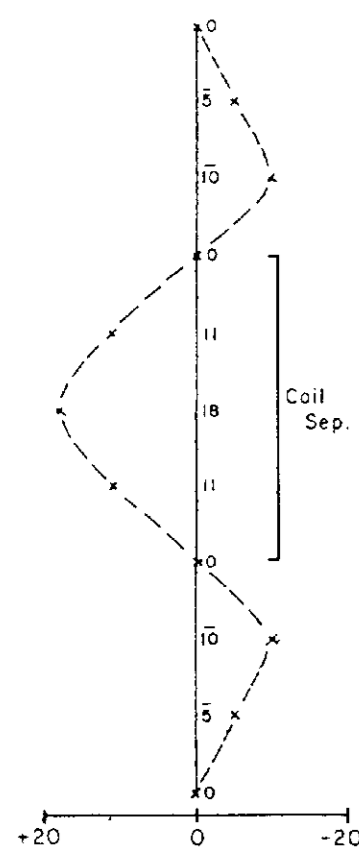
Teck Explorations Limited
ELECTROMAGNETIC SURVEY
 CUNNINGHAM TWP. PROPERTY
 CUNNINGHAM TWP., ONTARIO

INSTRUMENT: E230
 OPERATOR: PARAMETRICS Molinar II
 F. BLAKE & COLE
 DATE: OCT 88
 PROJECT AREA: 1054
 SCALE: 1:2500
 PROJECT: 13284

410710
 1554
 30
 60
 90
 120
 150
 180
 210
 240
 270
 300
 330
 360
 390
 420
 450
 480
 510
 540
 570
 600
 630
 660
 690
 720
 750
 780
 810
 840
 870
 900
 930
 960
 990
 1020
 1050
 1080
 1110
 1140
 1170
 1200
 1230
 1260
 1290
 1320
 1350
 1380
 1410
 1440
 1470
 1500
 1530
 1560
 1590
 1620
 1650
 1680
 1710
 1740
 1770
 1800
 1830
 1860
 1890
 1920
 1950
 1980
 2010
 2040
 2070
 2100
 2130
 2160
 2190
 2220
 2250
 2280
 2310
 2340
 2370
 2400
 2430
 2460
 2490
 2520
 2550
 2580
 2610
 2640
 2670
 2700
 2730
 2760
 2790
 2820
 2850
 2880
 2910
 2940
 2970
 3000
 3030
 3060
 3090
 3120
 3150
 3180
 3210
 3240
 3270
 3300
 3330
 3360
 3390
 3420
 3450
 3480
 3510
 3540
 3570
 3600
 3630
 3660
 3690
 3720
 3750
 3780
 3810
 3840
 3870
 3900
 3930
 3960
 3990
 4020
 4050
 4080
 4110
 4140
 4170
 4200
 4230
 4260
 4290
 4320
 4350
 4380
 4410
 4440
 4470
 4500
 4530
 4560
 4590
 4620
 4650
 4680
 4710
 4740
 4770
 4800
 4830
 4860
 4890
 4920
 4950
 4980
 5010
 5040
 5070
 5100
 5130
 5160
 5190
 5220
 5250
 5280
 5310
 5340
 5370
 5400
 5430
 5460
 5490
 5520
 5550
 5580
 5610
 5640
 5670
 5700
 5730
 5760
 5790
 5820
 5850
 5880
 5910
 5940
 5970
 6000
 6030
 6060
 6090
 6120
 6150
 6180
 6210
 6240
 6270
 6300
 6330
 6360
 6390
 6420
 6450
 6480
 6510
 6540
 6570
 6600
 6630
 6660
 6690
 6720
 6750
 6780
 6810
 6840
 6870
 6900
 6930
 6960
 6990
 7020
 7050
 7080
 7110
 7140
 7170
 7200
 7230
 7260
 7290
 7320
 7350
 7380
 7410
 7440
 7470
 7500
 7530
 7560
 7590
 7620
 7650
 7680
 7710
 7740
 7770
 7800
 7830
 7860
 7890
 7920
 7950
 7980
 8010
 8040
 8070
 8100
 8130
 8160
 8190
 8220
 8250
 8280
 8310
 8340
 8370
 8400
 8430
 8460
 8490
 8520
 8550
 8580
 8610
 8640
 8670
 8700
 8730
 8760
 8790
 8820
 8850
 8880
 8910
 8940
 8970
 9000
 9030
 9060
 9090
 9120
 9150
 9180
 9210
 9240
 9270
 9300
 9330
 9360
 9390
 9420
 9450
 9480
 9510
 9540
 9570
 9600
 9630
 9660
 9690
 9720
 9750
 9780
 9810
 9840
 9870
 9900
 9930
 9960
 9990
 10020
 10050
 10080
 10110
 10140
 10170
 10200
 10230
 10260
 10290
 10320
 10350
 10380
 10410
 10440
 10470
 10500
 10530
 10560
 10590
 10620
 10650
 10680
 10710
 10740
 10770
 10800
 10830
 10860
 10890
 10920
 10950
 10980
 11010
 11040
 11070
 11100
 11130
 11160
 11190
 11220
 11250
 11280
 11310
 11340
 11370
 11400
 11430
 11460
 11490
 11520
 11550
 11580
 11610
 11640
 11670
 11700
 11730
 11760
 11790
 11820
 11850
 11880
 11910
 11940
 11970
 12000
 12030
 12060
 12090
 12120
 12150
 12180
 12210
 12240
 12270
 12300
 12330
 12360
 12390
 12420
 12450
 12480
 12510
 12540
 12570
 12600
 12630
 12660
 12690
 12720
 12750
 12780
 12810
 12840
 12870
 12900
 12930
 12960
 12990
 13020
 13050
 13080
 13110
 13140
 13170
 13200
 13230
 13260
 13290
 13320
 13350
 13380
 13410
 13440
 13470
 13500
 13530
 13560
 13590
 13620
 13650
 13680
 13710
 13740
 13770
 13800
 13830
 13860
 13890
 13920
 13950
 13980
 14010
 14040
 14070
 14100
 14130
 14160
 14190
 14220
 14250
 14280
 14310
 14340
 14370
 14400
 14430
 14460
 14490
 14520
 14550
 14580
 14610
 14640
 14670
 14700
 14730
 14760
 14790
 14820
 14850
 14880
 14910
 14940
 14970
 15000
 15030
 15060
 15090
 15120
 15150
 15180
 15210
 15240
 15270
 15300
 15330
 15360
 15390
 15420
 15450
 15480
 15510
 15540
 15570
 15600
 15630
 15660
 15690
 15720
 15750
 15780
 15810
 15840
 15870
 15900
 15930
 15960
 15990
 16020
 16050
 16080
 16110
 16140
 16170
 16200
 16230
 16260
 16290
 16320
 16350
 16380
 16410
 16440
 16470
 16500
 16530
 16560
 16590
 16620
 16650
 16680
 16710
 16740
 16770
 16800
 16830
 16860
 16890
 16920
 16950
 16980
 17010
 17040
 17070
 17100
 17130
 17160
 17190
 17220
 17250
 17280
 17310
 17340
 17370
 17400
 17430
 17460
 17490
 17520
 17550
 17580
 17610
 17640
 17670
 17700
 17730
 17760
 17790
 17820
 17850
 17880
 17910
 17940
 17970
 18000
 18030
 18060
 18090
 18120
 18150
 18180
 18210
 18240
 18270
 18300
 18330
 18360
 18390
 18420
 18450
 18480
 18510
 18540
 18570
 18600
 18630
 18660
 18690
 18720
 18750
 18780
 18810
 18840
 18870
 18900
 18930
 18960
 18990
 19020
 19050
 19080
 19110
 19140
 19170
 19200
 19230
 19260
 19290
 19320
 19350
 19380
 19410
 19440
 19470
 19500
 19530
 19560
 19590
 19620
 19650
 19680
 19710
 19740
 19770
 19800
 19830
 19860
 19890
 19920
 19950
 19980
 20010
 20040
 20070
 20100
 20130
 20160
 20190
 20220
 20250
 20280
 20310
 20340
 20370
 20400
 20430
 20460
 20490
 20520
 20550
 20580
 20610
 20640
 20670
 20700
 20730
 20760
 20790
 20820
 20850
 20880
 20910
 20940
 20970
 21000
 21030
 21060
 21090
 21120
 21150
 21180
 21210
 21240
 21270
 21300
 21330
 21360
 21390
 21420
 21450
 21480
 21510
 21540
 21570
 21600
 21630
 21660
 21690
 21720
 21750
 21780
 21810
 21840
 21870
 21900
 21930
 21960
 21990
 22020
 22050
 22080
 22110
 22140
 22170
 22200
 22230
 22260
 22290
 22320
 22350
 22380
 22410
 22440
 22470
 22500
 22530
 22560
 22590
 22620
 22650
 22680
 22710
 22740
 22770
 22800
 22830
 22860
 22890
 22920
 22950
 22980
 23010
 23040
 23070
 23100
 23130
 23160
 23190
 23220
 23250
 23280
 23310
 23340
 23370
 23400
 23430
 23460
 23490
 23520
 23550
 23580
 23610
 23640
 23670
 23700
 23730
 23760
 23790
 23820
 23850
 23880
 23910
 23940
 23970
 24000
 24030
 24060
 24090
 24120
 24150
 24180
 24210
 24240
 24270
 24300
 24330
 24360
 24390
 24420
 24450
 24480
 24510
 24540
 24570
 24600
 24630
 24660
 24690
 24720
 24750
 24780
 24810
 24840
 24870
 24900
 24930
 24960
 24990
 25020
 25050
 25080
 25110
 25140
 25170
 25200
 25230
 25260
 25290
 25320
 25350
 25380
 25410
 25440
 25470
 25500
 25530
 25560
 25590
 25620
 25650
 25680
 25710
 25740
 25770
 25800
 25830
 25860
 25890
 25920
 25950
 25980
 26010
 26040
 26070
 26100
 26130
 26160
 26190
 26220
 26250
 26280
 26310
 26340
 26370
 26400
 26430
 26460
 26490
 26520
 26550
 26580
 26610
 26640
 26670
 26700
 26730
 26760
 26790
 26820
 26850
 26880
 26910
 26940
 26970
 27000
 27030
 27060
 27090
 27120
 27150
 27180
 27210
 27240
 27270
 27300
 27330
 27360
 27390
 27420
 27450
 27480
 27510
 27540
 27570
 27600
 27630
 27660
 27690
 27720
 27750
 27780
 27810
 27840
 27870
 27900
 27930
 27960
 27990
 28020
 28050
 28080
 28110
 28140
 28170
 28200
 28230
 28260
 28290
 28320
 28350
 28380
 28410
 28440
 28470
 28500
 28530
 28560
 28590
 28620
 28650
 28680
 28710
 28740
 28770
 28800
 28830
 28860
 28890
 28920
 28950
 28980
 29010
 29040
 29070
 29100
 29130
 29160
 29190
 29220
 29250
 29280
 29310
 29340
 29370
 29400
 29430
 29460
 29490
 29520
 29550
 29580
 29610
 29640
 29670
 29700
 29730
 29760
 29790
 29820
 29850
 29880
 29910
 29940
 29970
 30000
 30030
 30060
 30090
 30120
 30150
 30180
 30210
 30240
 30270
 30300
 30330
 30360
 30390
 30420
 30450
 30480
 30510
 30540
 30570
 30600
 30630
 30660
 30690
 30720
 30750
 30780
 30810
 30840
 30870
 30900
 30930
 30960
 30990
 31020
 31050
 31080
 31110
 31140
 31170
 31200
 31230
 31260
 31290
 31320
 31350
 31380
 31410
 31440
 31470
 31500
 31530
 31560
 31590
 31620
 31650
 31680
 31710
 31740
 31770
 31800
 31830
 31860
 31890
 31920
 31950
 31980
 32010
 32040
 32070
 32100
 32130
 32160
 32190
 32220
 32250
 32280
 32310
 32340
 32370
 32400
 32430
 32460
 32490
 32520
 32550
 32580
 32610
 32640
 32670
 32700
 32730
 32760
 32790
 32820
 32850
 32880
 32910
 32940
 32970
 33000
 33030
 33060
 33090
 33120
 33150
 33180
 33210
 33240
 33270
 33300
 33330
 33360
 33390
 33420
 33450
 33480
 33510
 33540
 33570
 33600
 33630
 33660
 33690
 33720
 33750
 33780
 33810
 33840
 33870
 33900
 33930
 33960
 33990
 34020
 34050
 34080
 34110
 34140
 34170
 34200
 34230
 34260
 34290
 34320
 34350
 34380
 34410
 34440
 34470
 34500
 34530
 34560
 34590
 34620
 34650
 34680



SHOOTBACK (Horizontal & Co-Axial)



INSTRUMENT: CRONE C.E.M. UNIT
OPERATOR: F. BLAKE / E. COTE
Coil Sep.: 100 metres
FREQUENCY: 390 Hz.



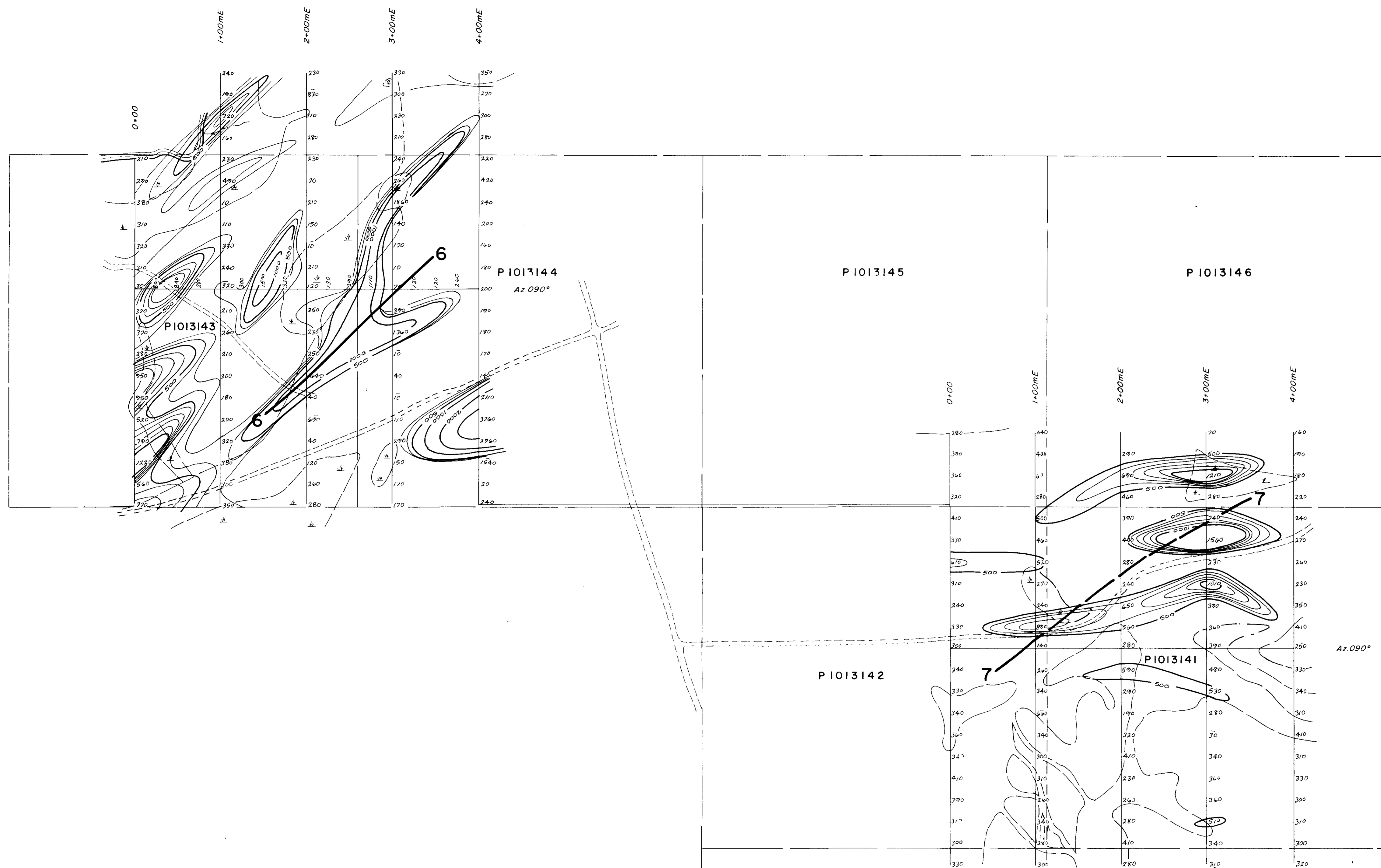
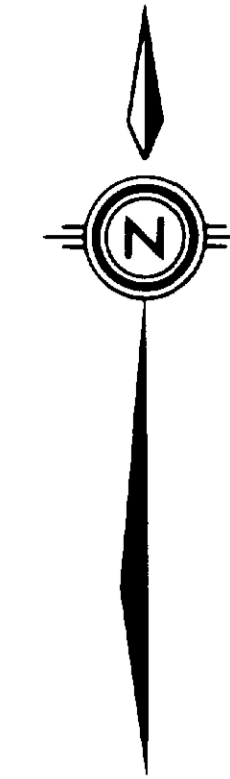
250



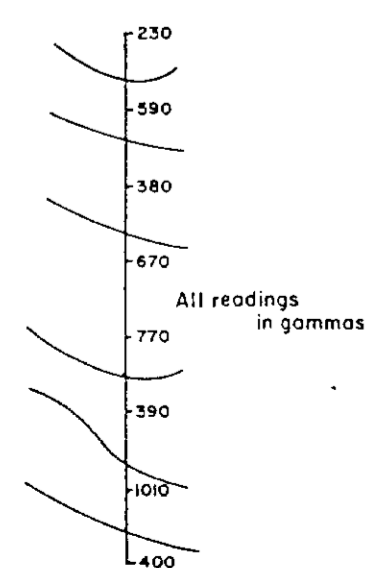
2.13284

(BLOCK 11)

Teck Explorations Limited			
ELECTROMAGNETIC SURVEY			
CUNNINGHAM TWP. PROPERTY CUNNINGHAM TWP., ONTARIO			
PROPERTY/AREA:	DATE: OCT. 89	JOB#: 1554	NTS.: 410/10
SCALE: 0 50 100 2500 metres			DWG. NO.: 6524a



MAGNETOMETER SURVEY (MAG.)



INSTRUMENT: McPHAR MAGNETOMETER UNIT
OPERATOR: F. BLAKE



2.13284



2.13284

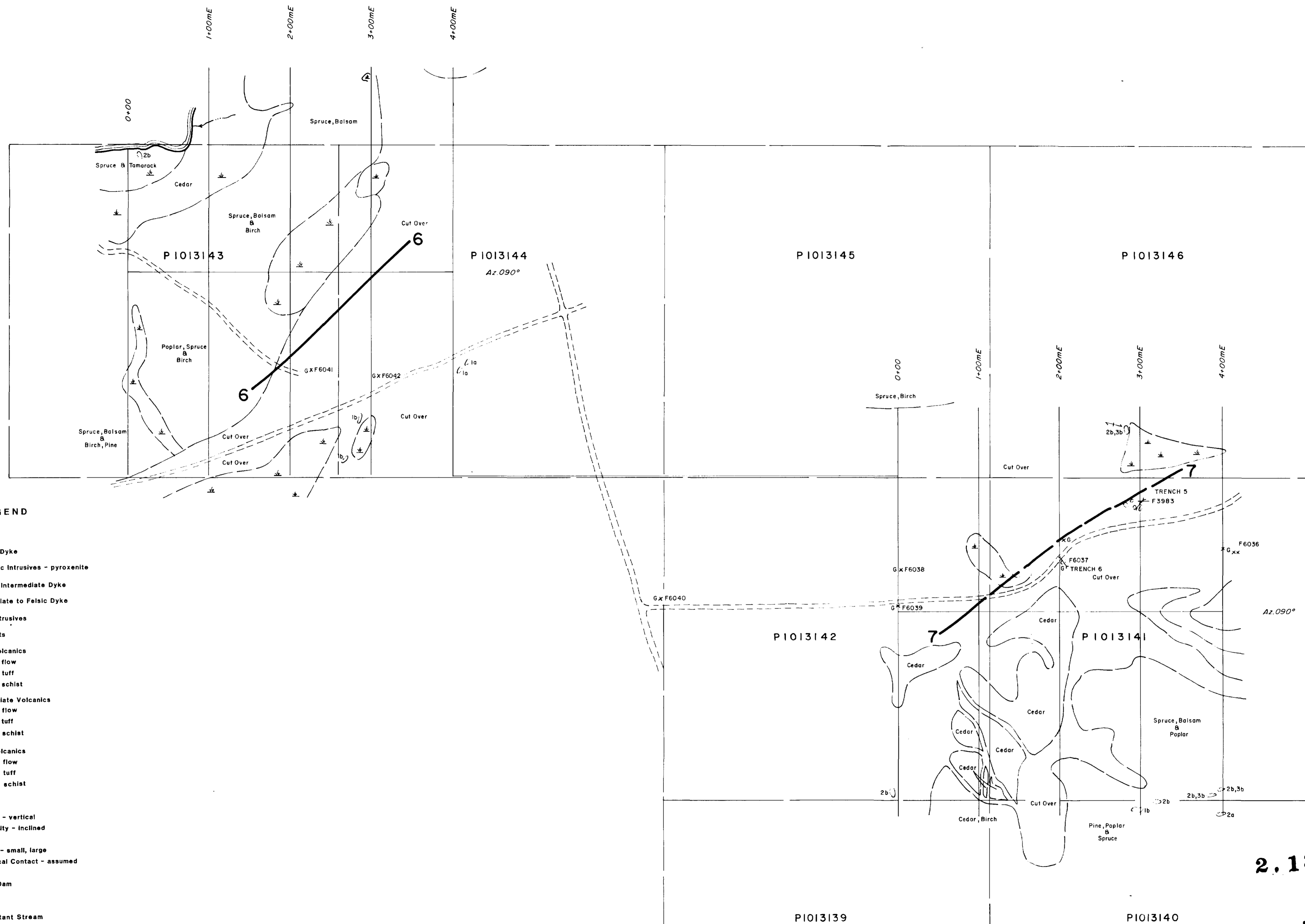
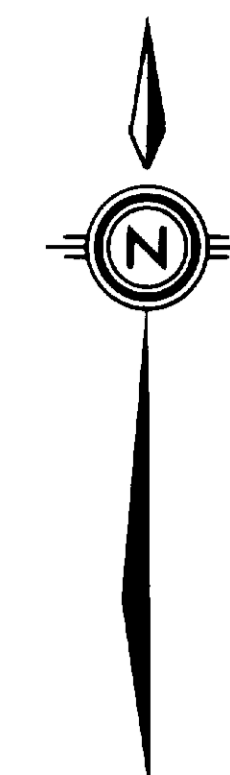
(BLOCK II)

Teck Explorations Limited

MAGNETOMETER SURVEY

CUNNINGHAM TWP. PROPERTY
CUNNINGHAM TWP., ONTARIO

PROPERTY/AREA:	OCT. 89	JOB: 1554	N.T.S.: 410/10
SCALE:	1 : 2500		DWG. NO.: 6524b



LEGEND

- 9 Diabase Dyke
 - 8 Ultramafic Intrusives - pyroxenite
 - 7 Mafic to Intermediate Dyke
 - 6 Intermediate to Felsic Dyke
 - 5 Felsic Intrusives
 - 4 Sediments
 - 3 Felsic Volcanics
(a) flow
(b) tuff
(c) schist
 - 2 Intermediate Volcanics
(a) flow
(b) tuff
(c) schist
 - 1 Mafic Volcanics
(a) flow
(b) tuff
(c) schist
-
- ↑↓ Foliation - vertical
 - ↗↘ Schistosity - inclined
 - x Outcrop - small, large
 - Geological Contact - assumed
 - ~ Swamp
 - ~ Beaver Dam
 - ~ Hill
 - ~ Trench
 - ~ Intermittant Stream
 - Sample Location
 - E.M. Conductor - weak, strong
-
- fg fine grained
 - mg medium grained
 - cg coarse grained
 - G gossan
 - gf graphite

Sample No.	Au ppm	Ag ppm	Cu ppm	Zn ppm
F3983	10	N11	91	141
F6036	105	0.3	119	76
F6037	30	0.4	292	885
F6038	N11	0.1	42	35
F6039	N11	0.2	25	30
F6040	10	0.2	57	62
F6041	N11	0.2	80	47
F6042	N11	0.2	222	24

2.13284



(BLOCK II)

Teck Explorations Limited

GEOLOGY

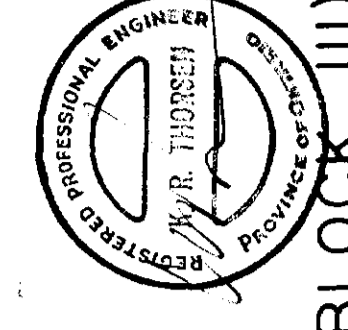
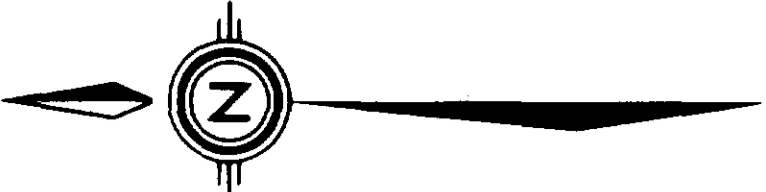
CUNNINGHAM TWP. PROPERTY
CUNNINGHAM TWP., ONTARIO

PROPERTY/AREA: A.C. DATE: OCT 89 JOB: 1554 N.T.S.: 410/10

GEOLOGY: SCALE: 1 : 2500 DATE: 1989 JOB: 1554 N.T.S.: 410/10

6524c





2.13284 (BLOCK III)

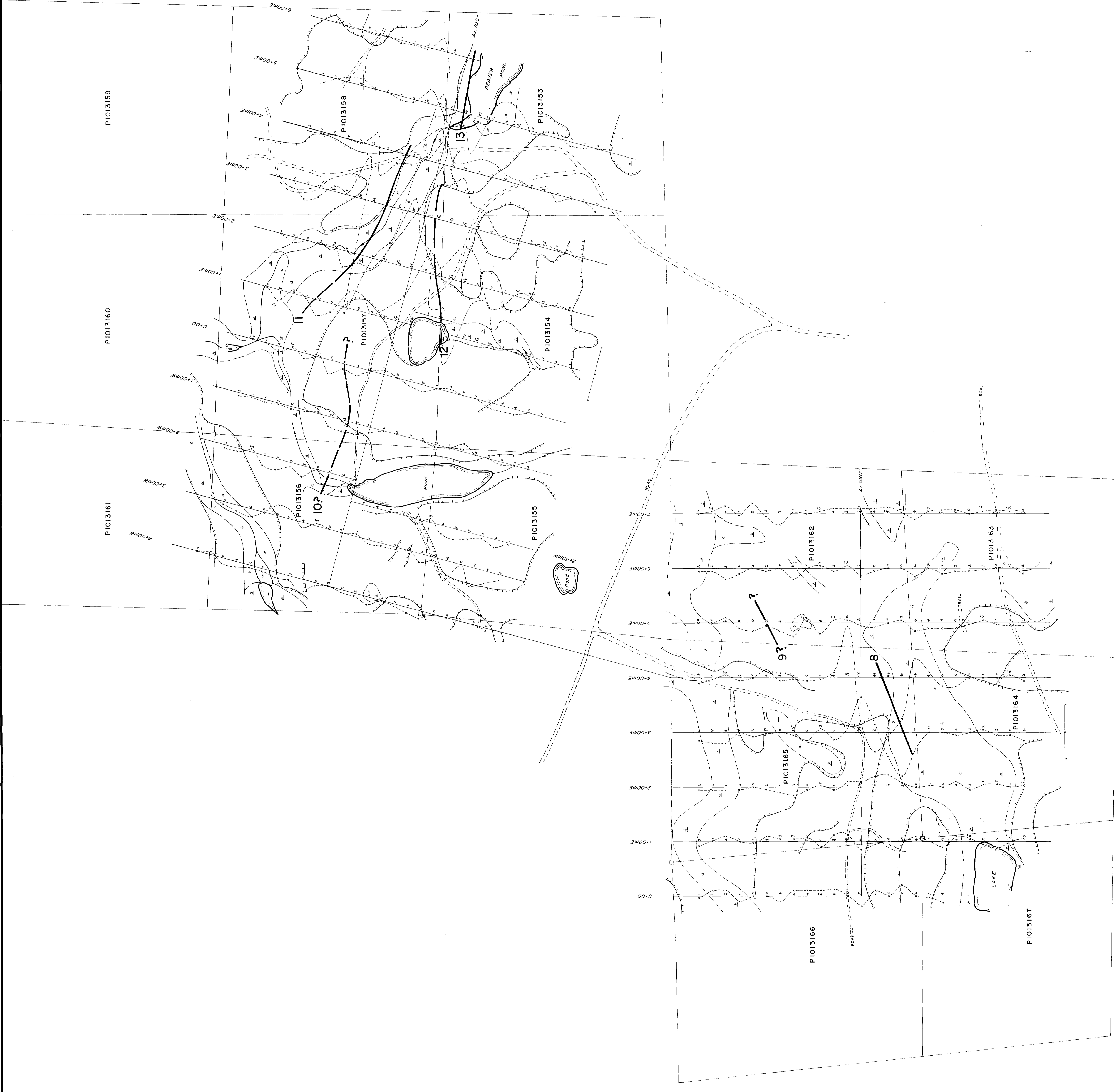
Teck Explorations Limited

ELECTROMAGNETIC SURVEY

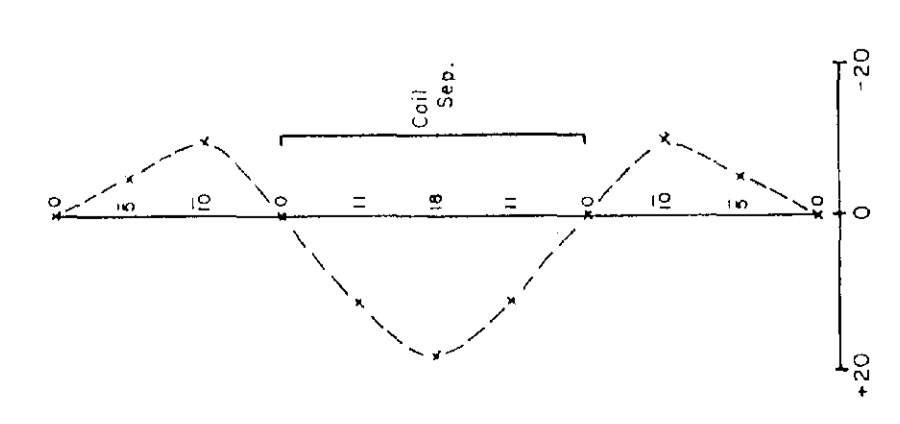
CUNNINGHAM TWP. PROPERTY
CUNNINGHAM TWP., ONTARIO

DATE: OCT. / 89
JOB: 1554
N.T.S.: 410/10
SCALE: 1" = 2500'
200 METERS

65250



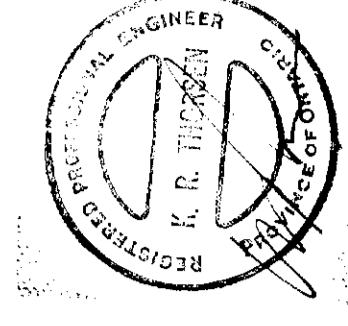
SHOTBACK (Horizontal & Co. Axis)



INSTRUMENT: CRONE C.E.M. UNIT
GEOPHYSICAL SYSTEMS LTD.
CUNNINGHAM TWP. ONTARIO
FREQUENCY: 350HZ.



2880



2.13284

(BLOCK III)

Teck Explorations Limited

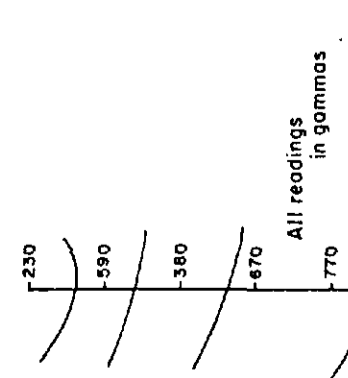
MAGNETOMETER SURVEY

CUNNINGHAM TWP. PROPERTY
CUNNINGHAM TWP., ONTARIO

PROPERTY/AREA: CUNNINGHAM TWP., ONTARIO
DATE: OCT / 89 JOB: 1554 INTS.: 410/10
SCALE: 1" = 2500'

2500

MAGNETOMETER SURVEY (MAG.)



INSTRUMENT: MEPAR MAGNETOMETER UNIT
OPERATOR: F. BLAIR

