010

GEOPHYSICAL REPORT FOR THE MAXMIN (HLEM) SURVEY over the JESSOP TWP. PROPERTY TIMMINS, ONTARIO

on behalf of

UNITED REEF PETROLEUMS LTD.
TORONTO, ONTARIO

Toronto, Canada
March, 1989

QCI Project: C-130

John W. Kieley, Dipl. Geoph.
David J.W. Dawson, B.Sc.
Quantech Consulting Inc.

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1.0 INTRODUCTION

During the period September 9, 1988 to October 9, 1988 and the period from February 14, 1989 to February 26, 1989, Quantech Consulting Inc. of Toronto, Canada conducted a horizontal loop electromagnetic (Maxmin) survey on behalf of United Reef Petroleums Ltd., Toronto, Canada. The survey grid extended over their Jessop Township Property, located six miles northwest of Timmins, Ontario.

A total of 90.1 line kilometers was surveyed using a coil separation of 150 meters, a station interval of 25 meters and frequencies 444 Hz. and 1777 Hz. To isolate areas of interest detected by this reconnaissance survey, 9.475 line kilometers were resurveyed using a coil separation of 100 meters, a station interval of 25 meters, and frequencies 444 Hz., 1777 Hz. and 3520 Hz.

2.0 LOCATION AND ACCESS

The Jessop Township Property is located in the northwestern section of Jessop Township, latitude 48 degrees 36 minutes, longitude 81 degrees 26 minutes, approximately 6 miles from the city center of Timmins, Ontario.(Map 1)

The grid has excellent winter access by a) snow machine, a 30 minute ride from the intersection of Sandy Falls Road and Airport Road, or b) winter road access from Hwy. 655 at Bigwater Lake, a 35 minute drive to the eastern portion of the property.

SUMMARY

During the period September 9, 1988 to October 9, 1988 and the period from February 14, 1989 to February 26, 1989, Quantech Consulting Inc. of Toronto, Canada conducted a horizontal loop electromagnetic (Maxmin) survey over the Jessop Township Property, Timmins, Ontario on behalf of United Reef Petroleums Ltd., Toronto, Canada. A total of 90.1 line kilometers were surveyed using a coil separation of 150 meters and frequencies 444 Hz. and 1777 Hz. To further delineate zones of interest, 9.745 line kilometers were resurveyed using a coil separation of 100 meters with 444 Hz., 1777 Hz. and 3520 Hz. recorded. The reconnaissance survey delineated four separate conductive zones, all narrow and moderately deep, greater than 50 meters, with considerable strike length. A fifth zone (Zone D) identified shows a double source, both narrow and moderately deep (>50m).

Map 7b	3520 Hz. Frequency - East Sheet: 100 m coils, Scale 1:2500
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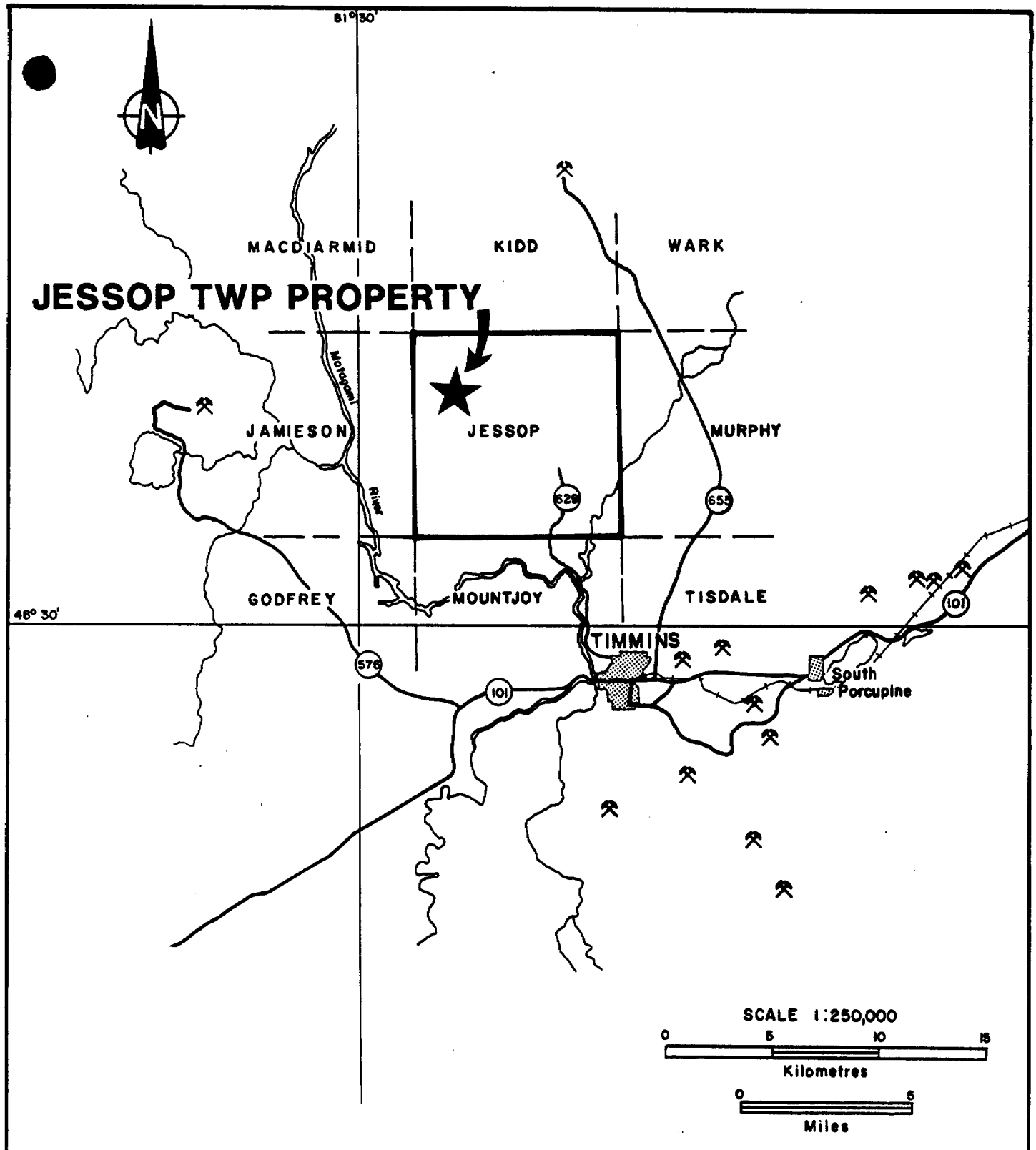


UNITED REEF PETROLEUMS LTD.	
JESSOP TOWNSHIP PROPERTY	
LOCATION MAP	
SCALE: 1:250,000	DATE: March 1989
QUANTECH CONSULTING INC.	

3.0 TECHNICAL SPECIFICATIONS AND SURVEY PARAMETERS

3.1 Apex Maxmin II/I Rx with the KTP-84

The portion of the survey completed in October, 1988 utilized an Apex Maxmin I, seven frequency receiver and the KTP-84 data logger. The remainder of the survey, completed March, 1989 utilized the Apex Maxmin II, five frequency receiver with the KTP-84 data logger.

The reconnaissance survey entailed a coil separation of 150 meters and two frequencies, 440 Hz. and 1777 Hz.. For detailing zones of interest the parameters were modified to a coil separation of 100 meters and three frequencies, 444 Hz., 1777 Hz., and 3520 Hz.

3.2 Computer Hardware and Software

The data was uploaded from the KTP-84 to a Compaq Portable II computer using software supplied by Apex Parameterics Ltd., converted into standard XYZ format using QCI inhouse software, and finally presented in stacked profile plan using Geosoft.

3.3 Survey Personnel

The project was supervised by John Kieley Dipl.Geoph., the field survey was performed and supervised by David Dawson, B.Sc., with David Pavlin, Geophysical Technician.

4.0 RESULTS AND INTERPRETATION

For exact Zone locations, please refer to Maps 2, 3, and 4, the Interpretation Overlays for the Jessop Township Property.

Zone A

Zone A is the longest zone delineated by the survey extending from 2+25N on Line 1000E to 2+25N on Line 2100E. This zone is characterized by the response found on Line 1000W at 2+25N and reveals a qualitatively narrow and deep vertical zone. There is a slight indication of a steep southerly dip intermittently along the strike of the zone noting that dip is indicated steep north on Lines 1400E through 1600E. Calculations with Strangway Characteristic Curves for Horizontal-loop Systems over dip angles of 90 degrees indicate a conductivity thickness of 23 mhos at 444 Hz., and a depth to coil separation ratio of 0.30. Considering this information, the expected depth of this target would be approximately 50 meters. We see that the response weakens through Lines 100W to 600E likely an indication of increased overburden thickness in that area. It is interesting that the smooth and continuous nature of Zone A is disrupted at Line 1800E where an abrupt left handed jog separates the final three lines of the anomaly. Two reasonable explanations for this occurrence would be that this tail end of the zone has been severed from the original structure or that this apparently offset portion is an independent anomaly.

Zone B

Zone B extends from 1+25S on Line 1100W through 0+25N on Line 1600W and continues off the property to grid north west. Again this zone appears as a deep, narrow sheet with steep (vertical) dip. Further calculations indicate a conductivity thickness of 41 mhos at 0+25N on Line 1600W for 444 Hz. Depth estimates suggest that the depth to coil separation ratio is approximately 0.35, depth of 55 meters. Once again the target seems to deepen in the center of the zone.

Zone C

Zone C is a discontinuous zone located at 2+25S on Line 400W and may be traced to approximately 5+00S on Line 1600W. The response from the lower frequency falls off dramatically (indicating less conductivity) on Line 1400W and cannot be followed to Line 1600W. The zone is discontinuous on Lines 1100W through 900W but reappears near 2+50S on Line 800W. Calculations for Line 700W at 2+75S show a conductivity thickness of 12 mhos for 444 Hz. Calculations also suggest that the source for this zone on Line 1200W would be approximately 50 meters.

Zone D

Zone D, defined from 4+00N on Line 500W to 7+25N on Line 1200W, indicates the presence of a compound rather than a single source. The reconnaissance survey isolated two distinct zones on Line 1100W near 7+50N through Line 900W near 6+25N. This area was subsequently surveyed using a 100 meter coil separation and three frequencies, 440,

1777, and 3520 Hz., with the intent of further resolving this zone. Unfortunately the information gathered offers little new insight due to the obvious depth of the target(s),(>50m and the inability of the HLEM system to resolve closely spaced zones at these depths. It also appears that the existing grid orientation cuts this zone at a slightly obtuse angle, perhaps an explanation for the distorted southern shoulder of Zone D on Lines 1000W through 800W.

Zone E

Zone E is a continuous zone striking grid east from 5+75N on Line 1000E to 6+00N on Line 2100E. Again this response indicates a narrow, vertical, moderately deep,(>50m) zone. It should be noted that Zone E may be traced by intermittent and weak responses along strike to Line 200W at 6+50N.

Miscellaneous Areas and Anomalies

An area situated within Lines 3200E to 2900E from the baseline to the northern extent of each line. This area was resurveyed with both the reconnaissance and the detail parameters to determine the validity of the original response with the reconnaissance parameters. The positive quadrature shoulder at 3+00N on Line 3100E repeated well under the reconnaissance parameters and was more accurately located at 3+25N under the detail parameters. This positive peak in the quadrature suggests a relative high in the bedrock topography.

Survey coverage was to be extended to examine a large response building to the north of the existing grid at Lines 2700E to 2900E north of 10+00N, but the quality of the bush in the area made chaining without cut lines impossible.

Line 1600E near 13+00N offers a broad response and this may be followed to a similar response near 13+50N on Line 1100E but little evidence of a continuous zone exists.

On Line 1300E near 2+75S another broad zone which may be followed into Line 1200E indicates a deep isolated source.

On Line 3200E, 3+25N, a moderate response may be related to Line 3300E, 3+75N.

A one-line response is evident on Line 2800E, BL which does not appear to be continuous.

Map 10 presents the area resurveyed on Line 1000E about 0+25S to determine the exact nature of the apparent double zone detected by the 150m survey. Again we see that due to the depth of the target, the zone could not be definitively resolved.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The horizontal loop electromagnetic (Maxmin) survey performed on the Jessop Township Property, Timmins, Ontario on behalf of United Reef Petroleums outlined five separate conductive zones. Four of these zones, Zones A, B, C, and E appear as moderately deep, narrow, continuous structures interpreted as conductive fault structures. The fifth zone, zone D presents as a double source conductive zone, again both being narrow and moderately deep (>50m).

Detailing at a 100 meter coil separation did not significantly separate the two zones comprising Zone D due to the depth of the source.

To more fully delineate Zone D, it is suggested that a detailed VLF-EM be performed over the extent of Zone D, Line 1300W from 6+00N to 10+00N through Line 700W from 3+00N to 6+00N, at a station interval of 12.5 meters. It is also suggested that this VLF-EM survey be executed at a new grid orientation perpendicular to Zone D.

Respectfully submitted,

David Dawson, B.Sc.

Respectfully submitted,

John Kieley, Dipl. Geoph.

I, John Kieley, hereby declare that:

1. I am a geophysicist with residence in Hanover, Ontario and am presently employed in this capacity and as a director with Quantech Consulting Inc. of Toronto, Ontario.

2. I am a graduate of Cambrian College, Sudbury, Ontario, in 1974, with an Honours Diploma of Geophysical Engineering Technology.

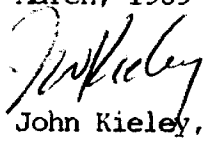
3. I have practiced my profession in North America, South America, Central America, Europe, and Africa continuously since graduation.

4. I am a member of the Canadian Exploration Geophysicists Society, a member of the European Association of Exploration Geophysicists, a member of the Prospectors and Developers Association, and a past member of the Society of Exploration Geophysicists.

5. I have no interest nor do I expect to receive any interest, direct or indirect, in the properties or securities of United Reef Petroleums Limited.

6. The statements made by me in this report represent my best opinion and judgement based on the information available to me at the time of writing of this report.

Toronto, Canada
March, 1989



John Kieley, Dipl.Geoph.
Geophysicist

CERTIFICATE

I, David J.W. Dawson of Timmins, Ontario hereby certify that:

1. I am a graduate of Lakehead University, Thunder Bay, Ontario with a Bachelor of Science Degree (Geology) and have completed the requirements of the Bachelor of Science Degree (Geophysics) at the University of Western Ontario, London, Ontario.

2. I have practiced my profession in North America, continuously since graduation.

3. I am a member of the Canadian Exploration Geophysicists Society (KEGS).

4. I am currently employed as a Geophysicist by Quantech Consulting Inc., Toronto, Canada.

5. The statements made by me in this report represent by best opinion and judgment.

6. I have no interest either direct or indirect, nor do I expect to receive any, in the properties or securities of United Reef Petroleums Limited or any of its subsidiary companies.

Toronto, Canada
March, 1989

David J.W. Dawson, B.Sc.

APPENDIX A

INSTRUMENT SPECIFICATIONS

APEX MAXMIN I PORTABLE EM

The MaxMin I ground EM System is designed for mineral and water exploration and for geoengineering applications. It is an expansion of the highly popular MaxMin II and III EM System concepts. The frequency range is extended to seven octaves from four. The ranges and numbers of coil separations are increased and new operating modes are added. The receiver can also be used independently for measurements with powerline sources. The advanced spheric and powerline noise rejection is further improved, resulting in faster and more accurate surveys, particularly at larger coil separations. Several receivers may be operated along a single reference cable.

Mating plug in data acquisition computer and cassette unit are available for use with the MaxMin I for automatic digital data acquisition and processing. These units are covered in separate data sheet.

MAXMIN I SPECIFICATIONS:

Frequencies:	110, 220, 440, 880, 1760, 3520, 7040 and 14080 Hz, plus 50/60 Hz powerline frequency (receiver only).
Modes:	MAX 1: Horizontal loop mode (Transmitter and receiver coil planes horizontal and coplanar). MAX 2: Vertical coplanar loop mode (Transmitter and receiver coil planes vertical and coplanar). MAX 3: Vertical coaxial loop mode (Transmitter and receiver coil planes vertical and coaxial). MIN 1: Perpendicular loop mode 1 (Transmitter coil plane horizontal and receiver coil plane vertical). MIN 2: Perpendicular loop mode 2 (Transmitter coil plane vertical and receiver coil plane horizontal).
Coil separations:	12.5, 25, 50, 75, 100, 125, 150, 200, 250, 300, & 400 metres (standard). 10, 20, 40, 60, 80, 100, 120, 160, 200, 240 & 320 metres (selected with grid switch inside of receiver). 50, 100, 200, 300, 400, 500, 600, 800, 1000, 1200 & 1600 feet (selected with grid switch inside of receiver).
Parameters measured:	In-Phase and quadrature components of the secondary magnetic field, in % of primary (transmitted) field. Field amplitude and/or tilt of 50/60 Hz powerline field.
Readouts:	Analog direct readouts on edgewise panel meters for in-phase, quadrature and tilt, and for 50/60Hz amplitude. (Additional digital LED readouts when using the DAC, for which interfacing and controls are provided for plug-in).
Ranges of readouts:	Analog in-phase and quadrature scales: 0±4%, 0±20%, 0±100%, switch activated. Analog tilt scale: 0±75% grade. (Digital in-phase and quad. 0±102.4%).
Resolution:	Analog in-phase and quadrature 0.05% to 0.5%, analog tilt 1% grade. (Digital in-phase and quadrature 0.1%).
Repeatability:	±0.05% to ±1% normally, depending on frequency, coil separation & conditions.
Signal filtering:	Powerline comb filter, continuous spherics noise clipping, autoadjusting time constant and other filtering.
Warning lights:	Receiver signal and reference warning lights to indicate potential errors.
Survey depth:	From surface down to 1.5 times coil separation used.
Transmitter dipole moments:	110 Hz: 220 Atm² 1760 Hz: 160 Atm² 220 Hz: 215 Atm² 3520 Hz: 80 Atm² 440 Hz: 210 Atm² 7040 Hz: 40 Atm² 880 Hz: 200 Atm² 14080 Hz: 20 Atm²
Reference cable:	Light weight unshielded 4/2 conductor teflon cable for maximum temperature range and for minimum friction. Please specify cable lengths required.
Intercom:	Voice communication link provided for operators via the reference cable.
Receiver power supply:	Four standard 9V batteries (0.5Ah, alkaline). Life 30 hrs continuous duty, less in cold weather. Rechargeable battery and charger option available.
Transmitter power supply:	Rechargeable sealed gel type lead acid 12V-13Ah batteries (4x6V-6½Ah) in canvas belt. Optional 12V-8Ah light duty belt pack available.
Transmitter battery charger:	For 110-120/220-240VAC, 50/60/400 Hz and 12-15VDC supply operation, automatic float charge mode, three charge status indicator lights. Output 14.4V-1.25A nom.
Operating temp:	-40 to +60 deg.C.
Receiver weight:	8 kg, including the two integral ferrite cored antennas (9 kg with data acq. comp.)
Transmitter weight:	16 kg with standard 12V-13Ah battery pack. 14 kg with light duty 12V-8Ah pack.
Shipping weight:	59 kg plus weight of reference cables at 2.5 kg per 100 metres plus other optional items if any.
Standard spares:	One spare transmitter battery pack, one spare transmitter battery charger, two spare transmitter retractile connecting cords, one spare set receiver batteries.

Specifications subject to change without notification.

APEX PARAMETRICS LIMITED

P.O. Box 818, Uxbridge
Ontario, Canada L0C 1K0

Telephones: 416-640-6102
416-852-5875

Cables: APEXPARA TORONTO

Telex: 06-966625 APEXPARA UXB

HAND HELD COMPUTER KTP-84

For automatic and manual data acquisition in the field.
Versatile and independent of the measuring instruments used.
Robust and reliable in different environments.

RAUTARUUKKI OY

TECHNICAL SPECIFICATION

Size:	24x9x4 cm
Weight:	1,0/1,3 kg depending on battery
Temperature range:	-30°C–+60°C
Construction:	Waterproof and shock-resisting aluminium case
Operational time:	With one battery charge: normal use 10–80 h automatic measurement controlled by an intern clock as long as 4 months (battery operated more than one year) memory maintenance more than 7 days with run-down batteries
Technology:	CMOS (processor, RAM, ROM, logics)
RAM memory:	48 kbytes
Display:	Alphanumerical, 32 characters
Keyboard:	39 keys, waterproof
Connectors:	2 bayonet type, designed to MIL-C-26482 (19 contacts)

Standard interfaces:

* 1 RS-232 C serial
* 1 CMOS serial
* 1 fast 5 decade pulse counter
* 4 analog channels, 12 bit A/D converter
* 2 CMOS registers for serial data transfer
* 8 CMOS-inputs
* 4 HCMOS-outputs
* Recharge connections

Standard software:

* General sophisticated form programs
* Data collection and scan programs
* Communication programs for data and form transfer
* Computer terminal functions
* Real time programs
* Optimization of power consumption
* Automatic cassette unit handling programs

Application programs:

* Programs for various ore prospecting equipment (MaxMin slingram, proton magnetometers, Jalander fluxgate magnetometer etc.)
* Interface programs for customer-specified analog and digital measuring equipment
* Programs for forestry
* Programs for time study

Accessories:

* Recharge unit
* Data transfer cable
* Manuals

Options:

* Cassette unit (KTP-CU)
* Drill hole interface (KTP-DHI)
* Interfaces for various measuring instruments
* Interface cables
* Data receiving programs for PC-XT (DOS 2.1) and HP 9845

RAUTARUUKKI OY
INSTRUMENTS
P.O. Box 217
SF-90101 OULU
FINLAND
Phone +358 81 227570
Telex 32109 steel sf

900

Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

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

Telephone: (416) 965-4888

September 8, 1989

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

Dear Sir:

Attached is a revised final approval that is linked to Report of Work W8906-253. Please disregard the previous final approval dated May 11, 1989 and correct the appropriate record sheets to reflect the assessment credits approved on the attached document.

The revised final approval has resulted from the claim holder submitting additional documentation to this office to prove that recutting of grid lines was required on the said claims. The recutting of the grid lines should have been noted on

Report of Work #W8906-253 at the time the report was submitted to your office, however, the claim holder did not do so.

This office has reviewed the additional documentation and has determined that additional assessment credits should be awarded for the recutting. Hence, the revised final approval. A new Report of Work requesting the recutting is not required.

I am advising the claim holder, via this letter of my decision and will suggest that they contact your office to determine the affect of this decision on the said claims.

Yours sincerely,

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

RM:eb
Enclosure

cc: Canhorn Mining Corporation
Toronto, Ontario

La Forest Hlava Exploration
Timmins, Ontario

Ministry of Northern Development and Mines

Ontario

Technical Assessment Work Credits

File 2.12394

Date August 31, 1989

Mining Recorder's Report of Work No. W8906-253

REVISED

Recorded Holder
CANHORN MINING CORPORATION

Township or Area
JESSOP TOWNSHIP.

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	P 919601 to 604 incl.
Electromagnetic 40 days	919606 to 614 incl.
Magnetometer ____ days	919616 to 620 incl.
Radiometric ____ days	919626
Induced polarization ____ days	919628
Other ____ days	919631 to 645 incl.
Section 77 (19) See "Mining Claims Assessed" column	919651 to 655 incl.
Geological ____ days	919657 to 660 incl.
Geochemical ____ days	919662 to 667 incl.
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☒	
☐ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

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

30 days Electromagnetic

P 919605, 919627, 919629-630, 919656, 919661

20 days Electromagnetic P 919615

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.

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

Telephone: (416) 965-4888

June 14, 1989

Your file: W8906-253
Our file: 2.12394

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

Dear Sir:

Re: Notice of Intent dated May 11, 1989 for Geophysical (Electromagnetic) Survey submitted on Mining Claims P 919601 et al in Jessop 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

RH:eb
Enclosure

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

Paul Sukman
Toronto, Ontario

Quantech Consulting Inc.
Toronto, Ontario

Resident Geologist
Timmins, Ontario

Canhorn Mining Corp.
Toronto, Ontario

Ministry of Northern Development and Mines
Ontario

Technical Assessment Work Credits

File 2.12394

Date May 11, 1989

Mining Recorder's Report of Work No. W8906-253

Recorded Holder
CANHORN MINING CORPORATION

Township or Area
JESSOP TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic 20 days Magnetometer ____ days Radiometric ____ days Induced polarization ____ days Other ____ days Section 77 (19) See "Mining Claims Assessed" column Geological ____ days Geochemical ____ days Man days ☐ Airborne ☐ Special provision ☒ Ground ☒ ☐ Credits have been reduced because of partial coverage of claims. ☐ Credits have been reduced because of corrections to work dates and figures of applicant.	P 919601 to 604 incl. 919606 to 614 incl. 919616 to 620 incl. 919626 919628 919631 to 645 incl. 919651 to 655 incl. 919657 to 660 incl. 919662 to 667 incl.

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

15 Days Electromagnetic	10 Days Electromagnetic
P 919605 919627 919629-630 919656 919661	P 919615

No credits have been allowed for the following mining claims

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

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

828 (85/12)

Ministry of Natural Resources
Ontario

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

Page 2 of 2

The Mining Act PAGE 2 OF 2

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.

Type of Survey(s): GEOPHYSICAL SURVEY-MAXMIN.

Township or Area: JESSOP TWP.

Claim Holder(s): CANHORN MINING CORPORATION

Prospector's Licence No.: T-1733

Address: 67 YONGE STREET, SUITE 400, TORONTO, ONTARIO, M5E 1J8

Survey Company: Quantech Consulting Inc.

Date of Survey (from & to): 14 02 89 (Day | Mo. | Yr.) – 26 02 89 (Day | Mo. | Yr.)

Total Miles of line Cut: 90.1

Name and Address of Author (of Geo-Technical report): J. Kieley-Quantech Consulting Inc. Suite 1050, 595 Bay Street, Toronto, Ontario, M5G 2C2

Credits Requested per Each Claim in Columns at right

		Days per Claim
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	
	· Electromagnetic	20
	· Magnetometer	
	· Radiometric	
	· Other	
	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	· Electromagnetic	
	· Magnetometer	
	· Radiometric	
	· Other	
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.		Days per Claim
	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P	919657	
	919658	
	919659	
	919660	
	919661	
	919662	
	919663	
	919664	
	919665	
	919666	
	919667	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

Total number of mining claims covered by this report of work: 57

Expenditures (excludes power stripping)

Type of Work Performed:

Performed on Claim(s):

Calculation of Expenditure Days Credits

Total Expenditures: $ 10,000 ÷ 15 = Total Days Credits

RECEIVED
APR 24 1989

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.

Date	Recorded Holder or Agent (Signature)
April 20, 1989	Paul Sukman

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
	Date Approved as Recorded	Branch Director

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: Paul Sukman, c/o Canhorn Mining Corporation, Suite 400, 67 Yonge Street, Toronto, Ontario M5E 1J8

Date Certified: April 20, 1989

Certified by (Signature): Paul Sukman

1362 (81/9)

Ministry of Natural Resources
Ontario

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

DOCUMENT No. W 8906•253

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.

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Type of Survey(s)	Township or Area
GEOPHYSICAL SURVEY-MAXMIN	JESSOP TWP.

Claim Holder(s)	Prospector's Licence No.
CANHORN MINING CORPORATION	T-1733

Address: SUITE 400, 67 YONGE STREET, TORONTO, ONTARIO, M5E 1J8

Survey Company	Date of Survey (from & to)	Total Miles of line Cut
QUANTECH CONSULTING INC.	14 02 89 (Day Mo. Yr.) 26 02 89 (Day Mo. Yr.)	90.1

Name and Address of Author (of Geo-Technical report): J. Kieley-Suite 1050, 595 Bay Street, Toronto, Ontario, M5G 2C2

Credits Requested per Each Claim in Columns at right

		Days per Claim
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 - Electromagnetic	20
	Geophysical - Magnetometer	
	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys	Electromagnetic	
	Magnetometer	
	Radiometric	

RECEIVED APR 24 1989 @ 10:00

RECORDED APR 24 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.

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P	919601	
	919602	
	919603	
	919604	
	919605	
	919606	
	919607	
	919608	
	919609	
	919610	
	919611	
	919612	
	919613	
	919614	
	919615	
	919616	
	919617	
	919618	
	919619	
	919620	
	919626	
	919627	
	919628	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P	919629	
	919630	
	919631	
	919632	
	919633	
	919634	
	919635	
	919636	
	919637	
	919638	
	919639	
	919640	
	919641	
	919642	
	919643	
	919644	
	919645	
	919651	
	919652	
	919653	
	919654	
	919655	
	919656	

Total number of mining claims covered by this report of work: 57

For Office Use Only		
Total Days Cr. Recorded: 1140	Date Recorded: APR 24/89	Mining Recorder: Mining Recorder
	Date Approved as Recorded: See Remarks	Branch Director:

Date	Recorded Holder or Agent (Signature)
April 20, 1989	Paul Sukman

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: Paul Sukman, c/o Canhorn Mining Corporation, 67 Yonge Street, Suite 400, Toronto, Ontario M5E 1J8

Date Certified	Certified by (Signature)
April 20, 1989	Paul Sukman

2.12394

P919601	✓	~~919638~~	
919602	✓	919638	✓
919603	✓	919639	✓
919604	✓	919640	✓
919605	-¼	919641	-
919606	✓	919642	✓
919607	✓	919643	✓
919608	✓	919644	✓
919609	✓	919645	✓
919610	✓	919651	✓
919611	✓	919652	✓
919612	✓	919653	✓
919613	✓	919654	✓
919614	✓	919655	✓
919615	-½	919656	-¼
919616	✓	919657	✓
919617	✓	919658	✓
919618	✓	919659	✓
919619	✓	919660	✓
919620	✓	919661	-¼
919626	✓	919662	✓
919627	-¼	919663	✓
919628	✓	919664	✓
919629	-¼	919665	✓
919630	-¼	919666	✓
919631	✓	919667	✓
919632	✓		
919633	✓		
919634	✓		
919635	✓		
919636	✓		
919637	✓		

MAP SYMBOLOGY

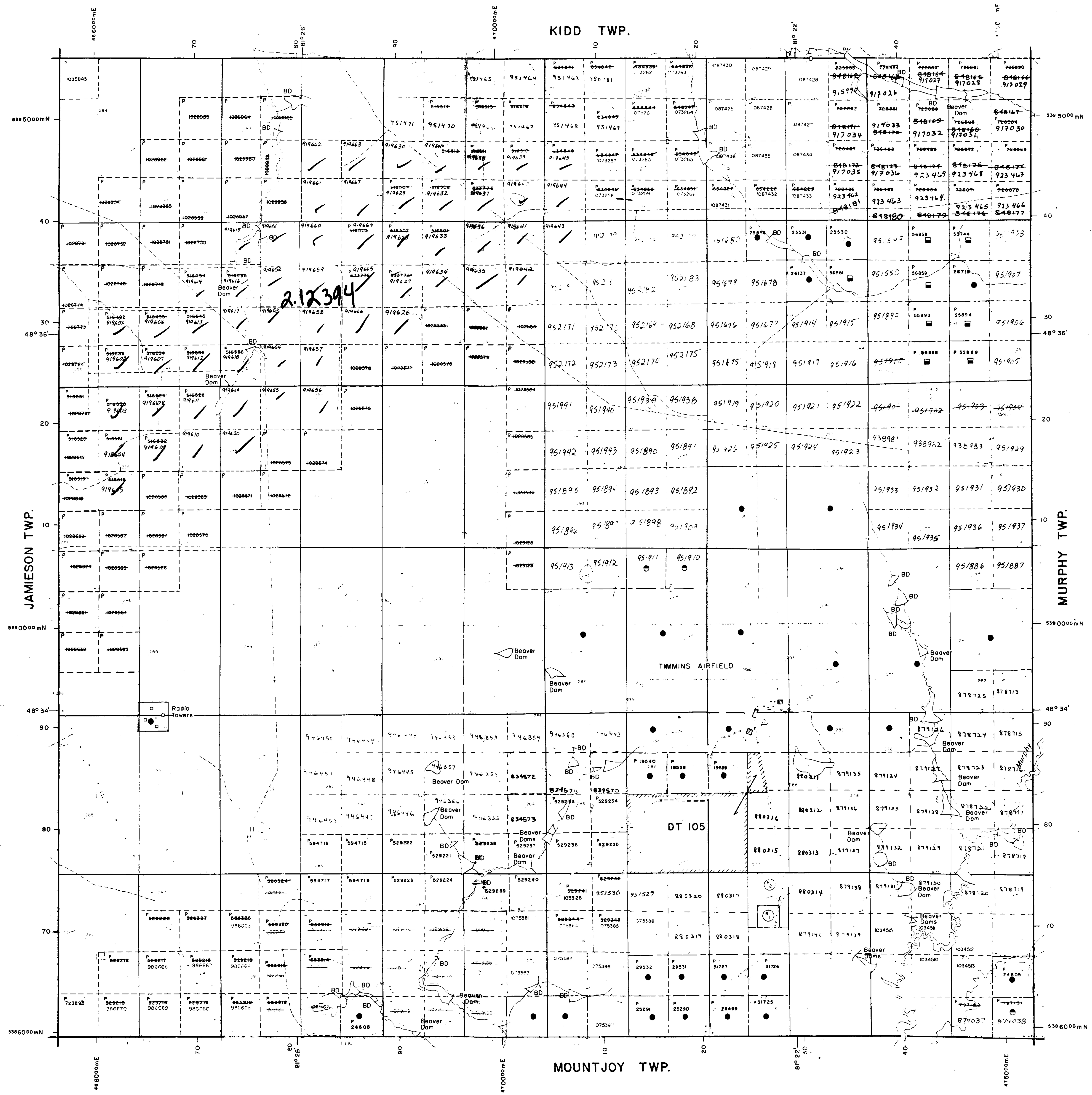
Aerial Cableway; Boundary; Building; Chimney; Cliff, Pit, Pile; Contours; Control Points; Culvert; Falls; Fence, Hedge, Wall; Feature Outline; Flooded Land; Lock; Marsh or Swamp; Mast; Mine Head Frame; Outcrop; Pipeline; Railroad; Road; Rapids; Reservoir; River, Stream, Canal; Rock; Shoal; Spot Elevation; Tower; Transmission Line; Tunnel; Utility Poles; Wharf, Dock, Pier; Wooded Area

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

(R1) WITHDRAWN FROM STAKING N.R.W 10/82
(R2) WITHDRAWN FROM STAKING N.R.W 69/83
DT 105 WITHDRAWN FROM STAKING W78/81



LEGEND

HIGHWAY AND ROUTE No.
OTHER ROADS
TRAILS
SURVEYED LINES
TOWNSHIPS, BASE LINES, ETC.
LOTS, MINING CLAIMS, PARCELS, ETC.
RAILWAY AND HIGHWAY
UTILITY LINES
NON PERENNIAL STREAM
FLOODING OR FLOODING RIGHTS
SUBDIVISION OR COMPOSITE PLAN
RESERVATIONS
ORIGINAL SHORELINE
MARSH OR MUSKEG
MINES
TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	◓
" MINING RIGHTS ONLY	◒
LEASE SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	▣
" MINING RIGHTS ONLY	▣
LICENCE OF OCCUPATION	▼
ORDER IN COUNCIL	OC
RESERVATION	Ⓡ
CANCELLED	⊗
SAND & GRAVEL	Ⓢ

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

SCALE 1:20 000
GRID ZONE 17

RECEIVED FEB 22 1989

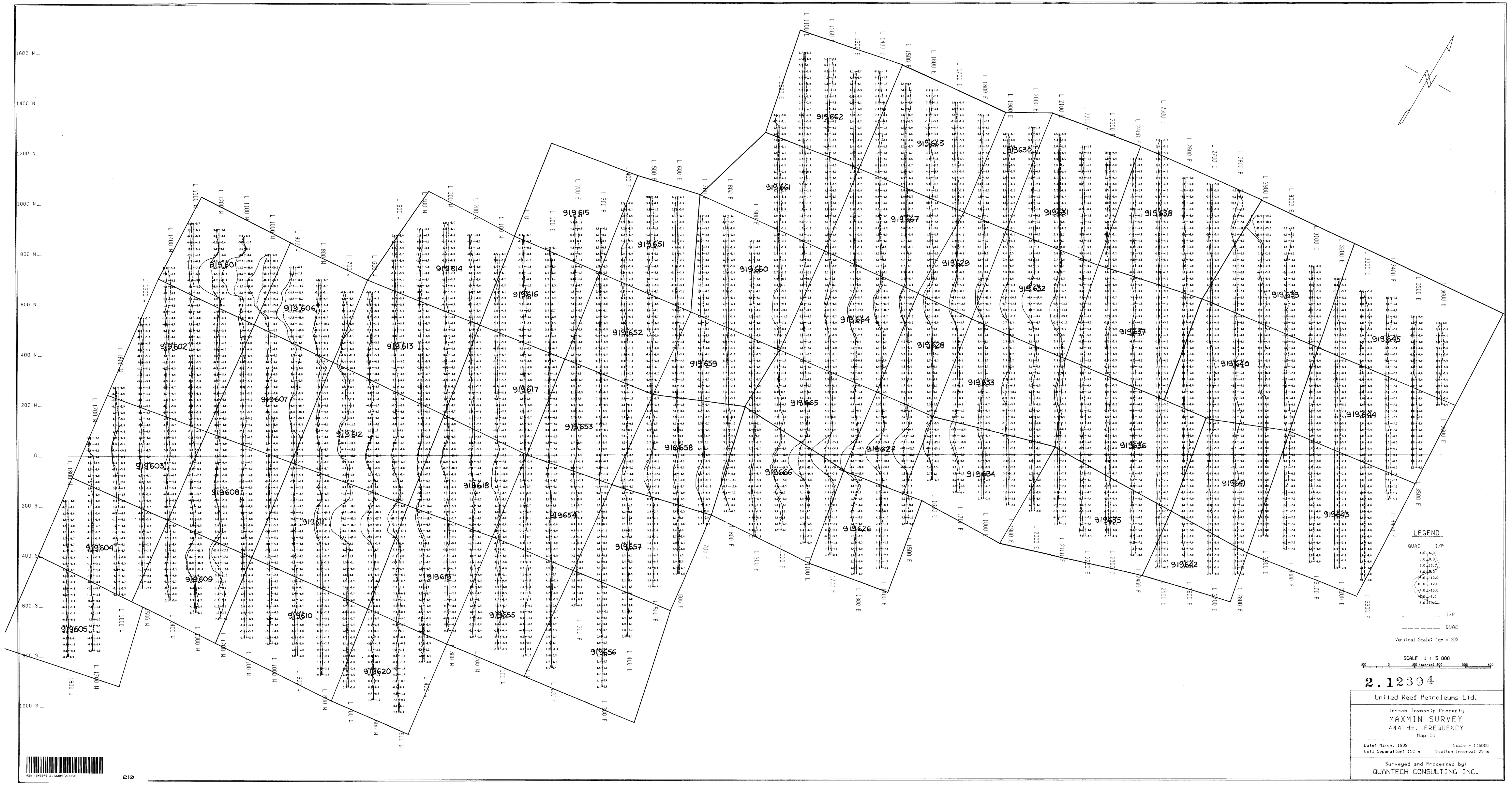
TOWNSHIP
JESSOP
M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS
MINING DIVISION
PORCUPINE
LAND TITLES / REGISTRY DIVISION
COCHRANE

Ontario — Ministry of Natural Resources — Land Management Branch

ORIGINAL COMPILATION JULY 1984
REVISED
Number G-3984

42A11SW0076 2.12394 JESSOP

200


LEGEND
QUAD I/P
I/P
QUAD
Vertical Scale: 1cm = 20%
SCALE 1 : 5 000
2.12394
United Reef Petroleums Ltd.
Jessop Township Property
MAXMIN SURVEY
444 Hz. FREQUENCY
Map 11
Date: March, 1989 Scale - 1:5000
Coil Separation: 150 m Station Interval 25 m
Surveyed and Processed by:
QUANTECH CONSULTING INC.


LEGEND
QUAD I/P
I/P
QUAD
Vertical Scale: 1cm = 20%
SCALE 1 : 5 000
100 0 100 (metres) 200 300 400
2.12394
United Reef Petroleums Ltd.
Jessop Township Property
MAXMIN SURVEY
1777 Hz. FREQUENCY
Map 12
Date: March, 1989
Scale - 1:5000
Coil Separation: 150 m
Station Interval 25 m
Surveyed and Processed by:
QUANTECH CONSULTING INC.

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