



41015SW0058 2.5666 DENYES

010

REPORT ON THE

MAGNETIC AND VLF-EM SURVEYS

COLLINGWOOD ENERGY INC.
LEE LAKE PROPERTY

DENYES AND GREENLAW TWPS.
PORCUPINE MINING DIVISION
ONTARIO

RECEIVED

JUN 3 0 1983

MINING LANDS SECTION

MAY 30TH, 1983
TORONTO, ONTARIO

DON B. SUTHERLAND, B. A., M. A., P. Eng.
CONSULTING GEOPHYSICIST



410155W0058 2.5666 DENYES

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010C

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Certificate	Attached
Plan Maps	Attached
Technical Data Statement	Attached
Magnetic Map	In Pocket
VLF-EM Map	In Pocket

INTRODUCTION

Magnetometer and VLF-EM surveying has been carried out over the Collingwood Energy Inc. holdings known as the Lee Lake Property. The property consists of 48 contiguous claims in the Denyes and Greenlaw Townships, Porcupine Mining Division, Ontario.

The line cutting was carried out in March, 1983, by H. Gonzalez of Timmins, Ontario. About 39.5 line miles of N-S picket line, spaced at 400 foot intervals, as well as 3.1 line miles of a detail grid were cut on the property. In addition about 7.9 miles of E-W baseline and tie lines were cut to control the grid.

The line cutting was followed by magnetic and VLF-EM surveying from March 22nd to 28th, 1983, by Guy Thibault Geophysical Services of Timmins.

LOCATION AND ACCESS

The Collingwood claims are located on Lee Lake in the Greenlaw and Denyes Townships of Ontario. (Figure 1). The property lies approximately 85 air miles (136 air km) southwest of Timmins. Access to the claims is by float plane from Chapleau 25 miles (40 km) to the west or from Ivanhoe Lake, 32 miles (51 km) to the north.

At present there is no road access to the claims. An old logging road comes to within two miles (3.2 km) of the property, but because of lack of recent

work, the roads have deteriorated to the point that normal vehicular travel is unadvisable. Present day access is limited to tractor or swamp buggy which could provide an adequate means of transportation for mobilization or demobilization of any camps or heavy equipment. The logging road originates in the small town of Kormak, 12 miles to the south. Kormak is connected by all weather roads to Chapleau (17 miles, 8 km) and hence to Wawa (87 miles, 149 km), Sault Ste. Marie (127 miles, 205 km) or Timmins (124 miles, 200 km).

The Collingwood claims are within the Precambrian Shield and the relief in the area is typical of that physiographic region; swamps and rocky hills with rarely more than 100 feet elevation change.

The property is located 12 miles (19 km) north of the main Canadian Pacific transcontinental rail line, if further major development is warranted, a spur line could be constructed at low cost.

PROPERTY HISTORY

The Lee Lake property was first discovered in the fall of 1931 by Martin Shunsby, a member of a team of prospectors that had just discovered a mine (Halcrow-Swayze) in the same geologic environment to the west.

The Lee Lake gold property has undergone exploration activity primarily during two periods; the initial

interest between 1931 and 1935 and recently between 1971 and 1972. The initial work was by Lee Lake Gold Mines who did the major development on the property; and whose geologic and exploration records were unfortunately recently destroyed. The most recent work was carried out by a number of companies including Broadscope Development, Granges, Greenlaw Development, UMEX, Mattagami Lake Mines and Dome Exploration, all whose work is on file with the Ministry of Natural Resources, Geology Department.

The original work consisted of trenching and surface sampling followed by a 2,000 foot diamond drilling program in 1933 and then a major underground development program in 1934. A total 1482 feet of cross cutting and drifting as well as 275 feet of shaft sinking was completed during the spring, summer, fall and winter of 1934. The property remained relatively inactive until 1971 - 1972 when a number of companies carried out geophysical programs in the neighbouring claim blocks. A minor amount of drilling was completed during that same period testing the geophysical targets.

The Lee Lake gold property remained as a patented claim block until April of 1982 when John Larche and Harris Hanson acquired it and sold it to Collingwood Energy Inc.

GEOLOGY

The following has been taken from a report by

George Cavey, dated January 24th, 1983.

The geology of the property has been interpreted from old drill logs and trenches. The property does not contain an abundance of natural outcrops. Because of the glacial drift and sandy overburden any outcrop exposure has to be developed by stripping.

The property consists of early pre-Cambrian basaltic to andesitic lava flows mixed with porphyritic flows as well as intrusions of acid to basic dykes. In the immediate vicinity are the Algonian granites, a possible source of mobilization of the minerals in this area of Ontario.

Within the bounds of the claim block the geology appears relatively simple. Quartz veining and mineralization within a highly silicified and heavily altered and sheared sericite schist lies on either side of a steeply dipping north-west trending quartz porphyritic dyke. Widths have been observed in a number of trenches of up to seven feet in the main zone on the south side of the porphyritic dyke and up to four on the north side of the dyke. The host rock appears to be altered greywacke on the south side of the dyke and a chloritized lava flows to the north side of the dyke. The quartz porphyry dyke is approximately 18 feet wide and is reported to crosscut an older diabase dyke or plug in the western end of the exposure. The older diabase is thought to be a part of the Algonian granites. (Figure 2).

Mineralization consisted chiefly of veins

5 to 7 feet wide that contained chalcopyrite, molybendum and massive pyrite, with some assays as high as 0.63 oz./ton gold.

PREVIOUS WORK

In 1933 and 1934 a shaft was sunk to 275 feet and levels were developed at 125 and 250 feet. Details of this work may be found in Cavey's report.

In 1981 an airborne survey of the area was done by Questor Surveys Limited for the Ontario Geological Survey. The results on the Lee Lake Property are shown on Figure 3. There are several quite strong anomalies in the north and south parts of the claim group and a definite WNW trend to the responses.

Cavey reports that there are "at least five major EM anomalies - - - within Collingwood's present day claim block". Some of these are reported to have been tested but the results are not presently available.

SURVEY INSTRUMENTS AND PROCEDURES

A Geonics EM-16 unit was used for the survey with Cutler, Maine as the transmitting station at a frequency of 17.8 Kilohertz. Readings were taken of the in-phase and quad phase component. A Fraser filter has been applied to the in-phase data and the resulting values are shown as contours while the in-phase and quad phase have been plotted as profiles.

The total field magnetic survey was carried out with a Geometrics G-816 proton magnetometer. Measurements were recorded to the nearest gammas and corrected for diurnal drift with a series of closed loops.

DISCUSSION OF RESULTS

MAGNETICS

Fifteen magnetic features, numbered 1 to 15 inclusive, have been indicated on the magnetic map.

Magnetic anomalies 1, 2 and 3 have anomalous amplitudes of 700 to 6,000 gammas and suggest a rock type with moderate magnetite content such as basalt or andesite. The magnetic lows near 12W and 12E that separate these anomalies may be indicative of N-S faulting.

Anomaly 4 is remarkably linear and shows more than 1,000 gammas relief in places. It is probably due to a narrow band of andesite and should provide an excellent marker horizon for mapping the southwest part of the claims.

Diabase dikes are the probable cause of the strong N-S anomalies 5 and 6. Anomaly 7 is a strong response on the north edge of the property that may represent a continuation of anomaly 6.

Anomalies 8 and 9 are small local features that correlate closely with the locations of shafts and pits. These anomalies may be due to iron rails, pipes, etc. in the old workings. Detailed magnetic surveying with 50 foot stations on 100 or even 50 foot lines is suggested to evaluate these small, low-valued anomalies. There are three other local anomalies on the detail grid and several more on the 400

foot grid that would warrant checking if anomalies 8 and 9 are considered important.

Anomalies 10, 11, 12 and 13 may represent a continuous magnetic horizon that has been interrupted near 10W and 6E. N-S faults at these localities would correspond well with the separations between anomalies 1, 2 and 3. The overall trend of anomalies 10, 11, 12 and 13 is WNW and similar to anomaly 4. The magnetic relief is not high but the system could be caused by a band of andesites or basalts.

Anomalies 14 and 15 are weak responses with a few hundred gammas relief. The displayed E-W strike is of interest since the prevailing strike is WNW over most of the claims.

VLF-EM

Twenty-six conductive zones lettered A to Z inclusive, as well as several sub-zones, have been interpreted from the data. It is interesting that none of these conductors have any strong magnetic coincidence although the overall trend of the conductor system is WNW, sub-parallel to the magnetic contours.

ZONE A

Zone A trends E-W through an area of high magnetics. It displays poor conductivity and is a third priority anomaly.

ZONE B

Zone B is a long zone with variable conductivity. It is a poor conductor from 44W to 0 but on 4E and 8E the

conductivity improves dramatically. The section of the conductor between 4E and 8E lies on the south flank of a strong magnetic high and Zone B is regarded as a second priority target in this section.

ZONES C, D, E, F AND G

These five zones exhibit poor conductivity and may be due to overburden. Note that Zone C corresponds to a small lake. All are considered third priority targets.

ZONE H

This long and persistent response strikes WNW and has been divided into 5 sub-zones of which H-2 and H-3 are the strongest. Zones H-2 and H-3 both warrant a first priority rating near 52W and 32W respectively. A second priority has been assigned to H-4 near 4E.

ZONE I

Zone I is a weak response that may be overburden related and a third priority target.

ZONE J

Zone J also strikes WNW sub-parallel to Zone H. Zone J is a long complex anomaly that has been divided into four sub-zones.

Zone J-1 is either a broad source 300 to 500 feet wide or two separate sub-parallel conductors.

The results favour a broad source as the cause of the anomaly. It is regarded as a second priority target.

Zone J-2 is a strong conductor with very little quad phase response. It is a first priority target on 28W.

Zone J-3 crosses the detail grid and displays strong in-phase dip angles. From 4E to 10W it is either two conductors separated by 200 feet or a single wide conductor. It is definitely a first priority target between 4E and 10W. J-3 appears to lie 300 feet south of the known mineralization but its relationship to the mineralization has not been established.

East of 20E Zone J-4 weakens somewhat and either bifurcates or becomes a broad source. This sub-zone has been assigned a third priority rating.

ZONE K

The central part of Zone K, from 10E to 20E exhibits high conductivity and lies on the SW flank of magnetic anomaly 10 near the shore of Lee Lake. This central portion lies within 400 feet of the previous workings and mineralization. Zone K is definitely a first priority conductor and its relationship to previous mineralization should be established.

ZONES L, M, N, O, P, Q AND R

These seven zones occupy a band to the north of Zones J and K. They have been interpreted from a series of low amplitude responses which display poor to moderate

conductivity and are classed as third priority targets at present.

ZONES S, T AND U

These three short zones lie near the north property boundary and display poor to moderate conductivity. Zone U shows a strong in-phase response on 20W and appears to continue off the property. All three conductors are located near a group of 1 to 3 channel airborne responses and have been given a second priority rating.

ZONE V

Zone V is a weak to moderate conductor that appears to be continuous from 32W to 36E. The V-1 portion near 4W and the V-2 near 32E are notably stronger and Zone V is a second priority target at these locations.

ZONE W

This short, strong conductor appears to extend eastward off the grid. The strong in-phase amplitudes and the high conductivity displayed warrants a first priority rating for Zone W on 36E.

ZONES X, Y AND Z

These short zones lie in the NE part of the claims. The EM curves are not impressive and they have been given a third priority rating.

SUMMARY AND RECOMMENDATIONS

Fifteen magnetic anomalies and twenty-six VLF-EM zones have been interpreted from the results of the surveys.

The location of all of these features and their intercepts on the traverses should be carefully examined in the detailed geological survey of the grid.

Detailed investigations should be of magnetic anomalies 8 and 9 to determine whether they are caused by cultural features such as iron pipes or rails in the old workings. A detailed magnetic survey with 50 foot stations on 50 foot lines might be of value in assessing these anomalies.

Previous EM surveys are reported on the property as well as some drilling. The details of this work would be of value in assessing the VLF data.

Six VLF zones warranted a first priority grading. These are strong, definite, responses that will probably respond to horizontal loop EM methods but the advantages of short spaced IP surveying (i.e. 50 to 100 foot dipoles) in the search for narrow veins with low metallic content cannot be overemphasized. Small grids of 5 to 7 traverses are recommended to be centred on the first priority VLF zones listed below:

H-2	-	52W
H-3	-	32W
J-2	-	28W
J-3	-	4W
K	-	16E
W	-	36E

The following second priority anomalies may be checked in a similar manner if encouragement is obtained in

the above program. However, these suggest anomalies with lower conductivities and may not be recoverable with EM. Again, IP is the preferred follow-up technique at the following locations:-

B	-	4E
H-4	-	4E
J-1	-	56W
S	-	52W
T	-	40W
U	-	20W
V-1	-	4W
V-2	-	32E

The remaining VLF zones are third priority targets and can be omitted from the initial follow-up program.

Finally, the apparent lack of VLF response from the known mineralization is surprising since "massive pyrite" was reported in the veins. Consideration should be given to a detailed orientation survey with short-spaced IP near the shaft and pits.

Respectfully submitted by


Don B. Sutherland M.A., A., P. Eng.



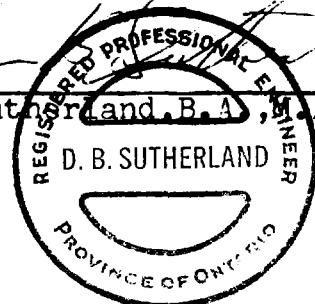
CERTIFICATE

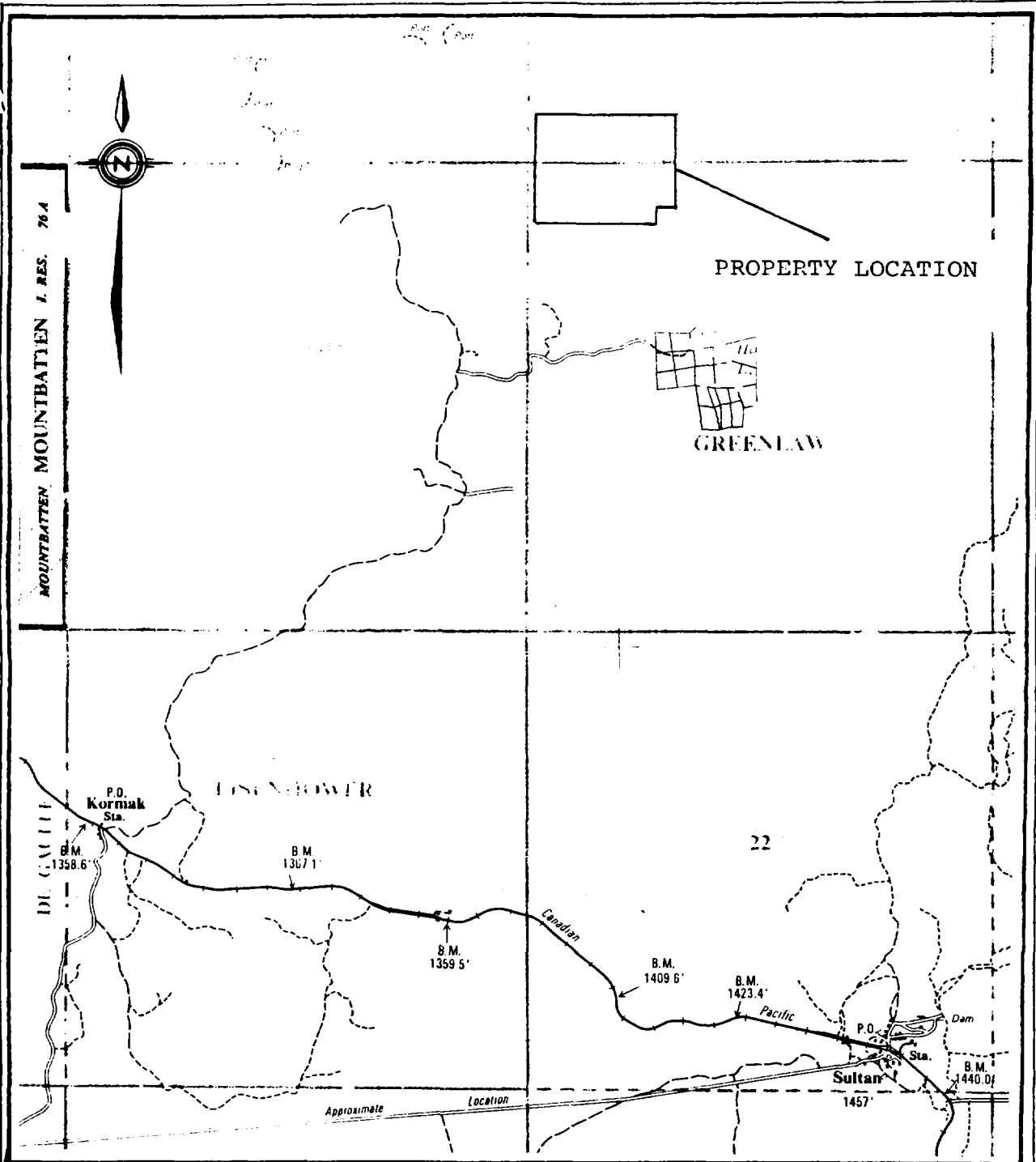
I, Don Benjamin Sutherland, of the City of Toronto,
Province of Ontario, do hereby certify that:

1. I am a geophysicist residing at 975 Mount Pleasant Road, Toronto, Ontario.
2. I am a graduate of the University of Toronto, with a B.A. Degree (1952) in Physics and Geology and an M.A. Degree (1953) in Physics.
3. I am a member of the Canadian Institute of Mining and Metallurgy and the Canadian Exploration Geophysicists Society.
4. I am a Professional Geophysicist and Consultant registered in the Province of Ontario.
5. I have no direct or indirect interest, nor do I expect to receive any directly or indirectly in the property or securities of Collingwood Energy Inc.
6. The statements made in this respect are based on a study of published geological literature and unpublished private reports.
7. Permission is granted to use in whole or in part for assessment and qualification requirements but not for advertising purposes.

DATED at Toronto
May 30th, 1983.


Don B. Sutherland, B.A., M.A., P. Eng.





MOUNTBATTEN MOUNTBATTEN 1 RES. 764

PROPERTY LOCATION

GREENLAW

EISENHOWER

P.O. Kormak Sta.

DE GUILLET

B.M. 1358.6

B.M. 1307.1

B.M. 1359.5

B.M. 1409.6

B.M. 1423.4

B.M. 1440.0

Sultan

1457

Approximate

Location

Canadian

Pacific

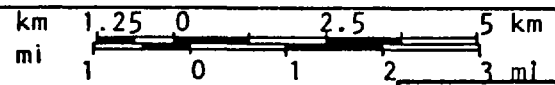
Dam

P.O. Sta.



**Omeneca
Consultants Ltd.**

**ROAD ACCESS AND PHYSIOGRAPHY
(from NTS 41 O/NE)**



SCALE: 1" = 2 mi


DRAWING NUMBER
1

DATE: Jan 1993


LEGEND

PRECAMBRIAN**


INTRUSIVE ROCKS
LATE BASIC INTRUSIVE ROCKS

 7 Diabase.


INTERMEDIATE TO BASIC VOLCANIC ROCKS

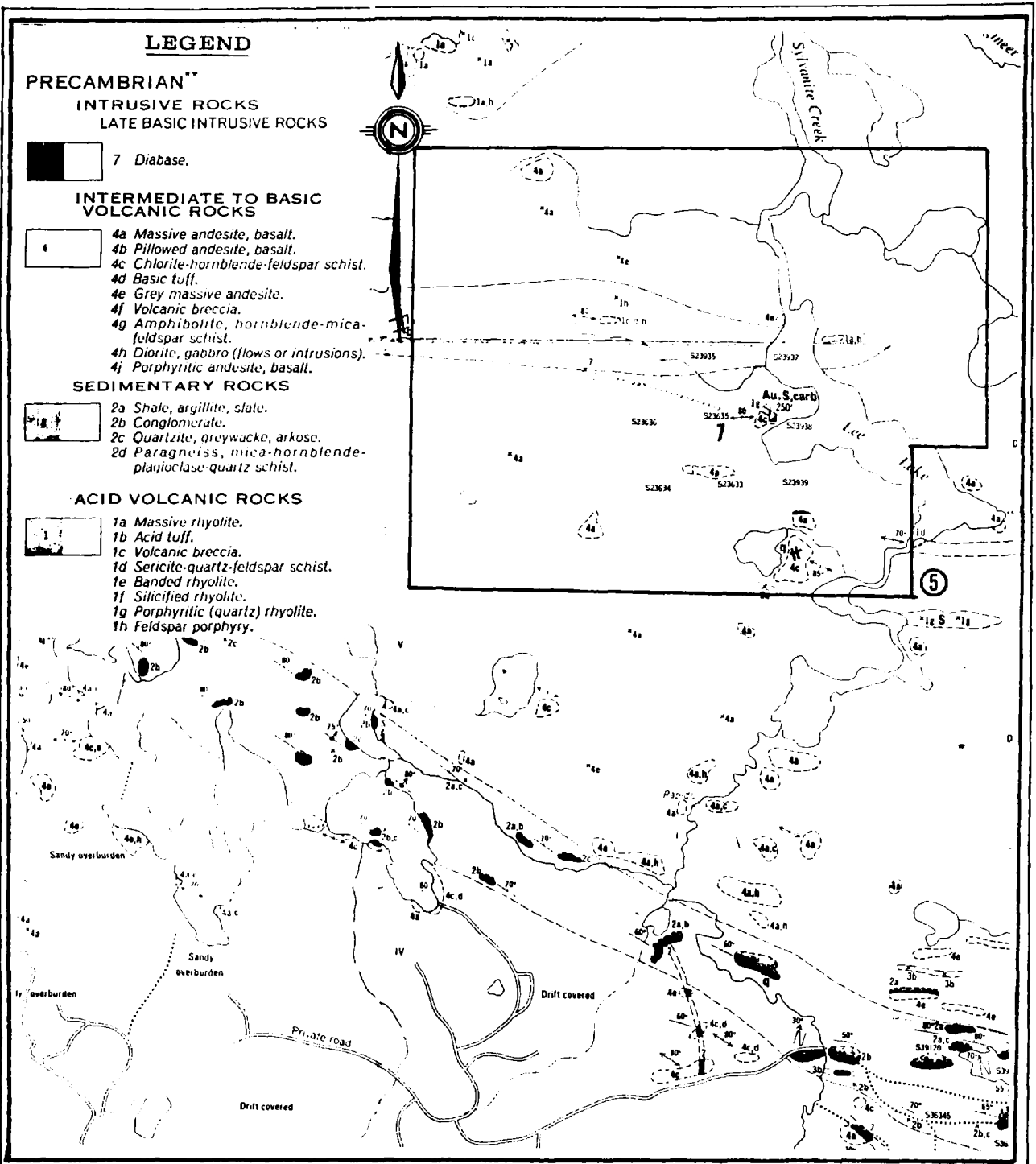
-  4a Massive andesite, basalt.
- 4b Pillowed andesite, basalt.
- 4c Chlorite-hornblende-feldspar schist.
- 4d Basic tuff.
- 4e Grey massive andesite.
- 4f Volcanic breccia.
- 4g Amphibolite, hornblende-mica-feldspar schist.
- 4h Diorite, gabbro (flows or intrusions).
- 4j Porphyritic andesite, basalt.

SEDIMENTARY ROCKS

-  2a Shale, argillite, slate.
- 2b Conglomerate.
- 2c Quartzite, greywacke, arkose.
- 2d Paragneiss, mica-hornblende-plagioclase-quartz schist.

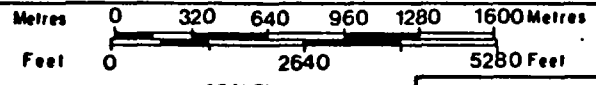
ACID VOLCANIC ROCKS

-  1a Massive rhyolite.
- 1b Acid tuff.
- 1c Volcanic breccia.
- 1d Sericite-quartz-feldspar schist.
- 1e Banded rhyolite.
- 1f Silicified rhyolite.
- 1g Porphyritic (quartz) rhyolite.
- 1h Feldspar porphyry.



**Omineca
Consultants Ltd.**

PROPERTY GEOLOGY
(after OGS maps 2120, 2121)

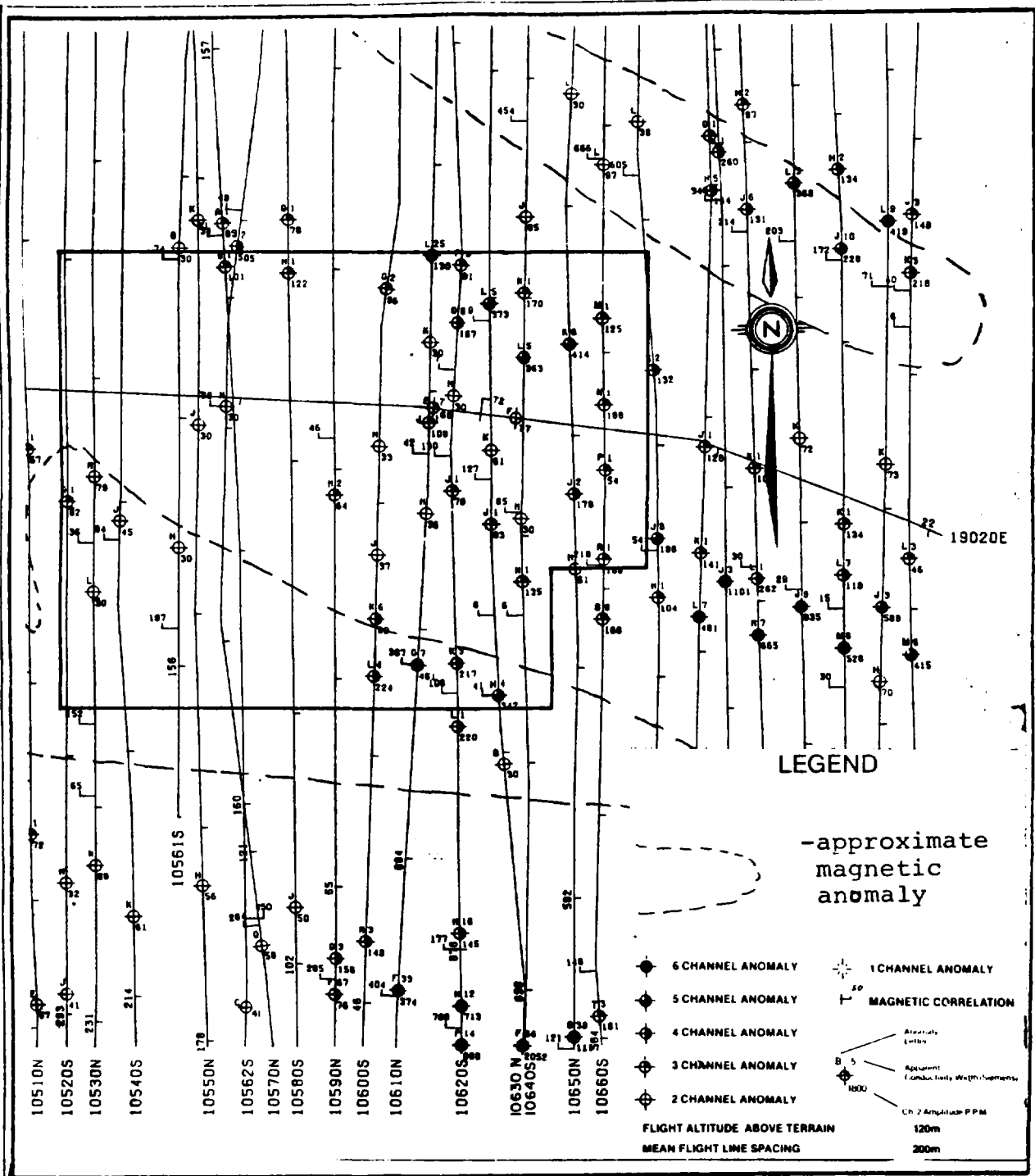


SCALE: 1" = 1/2 mi

DRAWING NUMBER

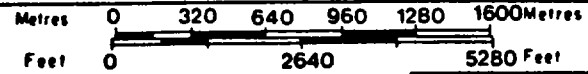
2

DATE: Jan 1983



**Omineca
Consultants Ltd.**

**PROPERTY GEOPHYSICS
(after OGS Map 80540)**



SCALE:
1"=1/2 mi

DRAWING NUMBER

3

DATE Jan 1983



410155W0058 2.5666 DENYES

300

File 626767
Ref. File 2.5666

The Mining Act

in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

Type of Survey(s)	Geophysical - Magnetic and VLF-EM		Township or Area	Denyes and Greenlaw	
Claim Holder(s)	James N. Morton (Collingwood Energy Inc.)			Prospector's Licence No. A-45811	
Address	c/o David R. Bell Geological Services Inc.				
Survey Company	Guy Thibault Geophysical Services			Total Miles of line Cut 50.5 miles	
Date of Survey (from & to)			22 03 83		
Name and Address of Author (of Geo-Technical report)			Don Sutherland, 975 Mount Pleasant Rd., Toronto, Ontario M5P 2L8		

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

Mining Claims Traversed (List in numerical sequence)			Mining Claims Traversed (List in numerical sequence)		
Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
	see attached				
	list				

RECEIVED
JUL 25 1983

PORCUPINE MINING DIVISION
RECEIVED
JUL 20 1983
A.M. 7|8|9|10|11|12 | P.M. 1|2|3|4|5|6
See Services 74

Total number of mining claims covered by this report of work. **48**

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.

Date **July 20, 1983** Recorded Holder or Agent (Signature)

For Office Use Only		
Total Days Cr. Recorded	Date Recorded July 20, 1983	Mining Recorder
Date Approved as Recorded		Regional Mining Recorder
Branch Director		

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
R. A. Markov, David R. Bell Geological Services Inc.

Date Certified
Certified by (Signature)

J.N. Morton (Collingwood Claims) Work Report filed July 20, 1983
Special Provisions Credit 40 days VLF - 20 days Magnetic on each
claim:

LEE LAKE PROPERTY CLAIMS

P-626707
P-626708
P-642187
P-642188
P-642189
P-642190
P-642867
P-642868
P-663111
P-663118
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RECEIVED

JUL 25 1983

MINING LANDS SECTION

GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL TECHNICAL DATA STATEMENT

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 Geophysical - Magnetic and VLF-EM
Township or Area Denyes and Greenlaw Twps.
Claim holder(s) Collingwood Energy Inc.
Author of Report Don B. Sutherland
Address 975 Mount Pleasant Road, Toronto
Covering Dates of Survey March 22nd to March 28th, 1983
(linecutting to office)
Total Miles of Line cut 50.5

MINING CLAIMS TRAVERSED List numerically

(prefix) (number)

SEE ATTACHED LIST

SPECIAL PROVISIONS CREDITS REQUESTED

DAYS
per claim

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

ENTER 20 days for each
additional survey using
same grid.

Geophysical _____
-Electromagnetic 40
-Magnetometer 20
-Radiometric _____
-Other _____
Geological _____
Geochemical _____

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

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

DATE: May 30th, 1983 SIGNATURE: _____

Author of Report

PROJECTS SECTION

Res. Geol. _____ Qualifications _____

Previous Surveys _____

Checked by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

TOTAL CLAIMS 48

If space insufficient, attach list

LEE LAKE PROPERTY CLAIMS

P-626707
P-626708
P-642187
P-642188
P-642189
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P-642867
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2.5666

180

1983 11 30

2.5666

Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

RE: **Geophysical (Electromagnetic and Magnetometer)**
Survey on mining claims P 626707 et al in the Townships
of Denyes, Greenlaw, Halcrow and Tooms

The Geophysical (Electromagnetic and Magnetometer) Survey
assessment work credits as listed with my Notice of Intent
dated November 8, 1983 have been approved as of the above
date.

Please inform the recorded holder of these mining claims
and so indicate on your records.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-1380

D. Kinvig:mc

cc: ~~James~~ N. Morton
c/o David R. Bell Geological Services Inc
P.O. Box 1250
Timmins, Ontario
P4N 7J5

cc: Resident Geologist
Timmins, Ontario

Recorded Holder JAMES N. MORTON
Township or Area DENYES, GREENLAW, HALCROW AND TOOMS TOWNSHIPS

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical _____ days Electromagnetic _____ 40 days Magnetometer _____ 20 days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	P 626707-08 642187 to 90 inclusive 642867-68 661596 to 99 inclusive 663098 to 111 inclusive 663118-19 663126 to 35 inclusive 688581 to 84 inclusive

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

20 DAYS ELECTROMAGNETIC AND 10 DAYS MAGNETOMETER

P 661600-601
688591 to 94 inclusive

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:



Nov. 23/83

Your file: 180

1983 11 08

Our file: 2.5666

Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. F.W. Matthews at 416/965-1380.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

for D. Kinvig:mc

Encls:

cc: James N. Morton
c/o David R. Bell Geological Services Inc
P.O. Box 1250
Timmins, Ontario P4N 7J5

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



Ministry of
Natural
Resources

Notice of Intent
for Technical Reports

1983 11 08

2.5666/180

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Lands Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.



Mining Lands Comments

They are on the maps

To: Geophysics *Mr. Barber.*

Comments

Approved Wish to see again with corrections

Date *Sept 2 / 83* Signature *R Barber*

To: Geology - Expenditures

Comments

Approved Wish to see again with corrections

Date Signature

To: Geochemistry

Comments

L.D.

Approved Wish to see again with corrections

Date Signature

To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

1983 07 18

2.5666

Mr. William L. Good
Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

We have received reports and maps for a Geophysical (Electromagnetic and Magnetometer) survey submitted under Special Provisions (credit for Performance and Coverage) on mining claims P626707 et al in the Townships of Denyes and Greenlaw.

This material will be examined and assessed and a statement of assessment work credits will be issued.

We do not have a copy of the report of work which is normally filed with you prior to the submission of this technical data. Please forward a copy as soon as possible.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416 965-1380

A. Barr:mc

cc: Mr. Don B. Sutherland
975 Mount Pleasant Road
Toronto, Ontario
M5P 2L8

cc: Collingwood Energy Inc.

DON B. SUTHERLAND, B.A., M.A., P.Eng.
Geophysical Consultant

975 MOUNT PLEASANT ROAD
TORONTO, ONTARIO M5P 2L8
(416) 482-2257

30th MS
June 23rd, 1983.

The Mining Recorder,
6th Floor, Whitney Block,
Queen's Park,
Toronto, Ontario

Dear Sir:

We would appreciate it if you would
acknowledge receipt of two copies of the following
reports:

Lee Lake Property of Collingwood Energy Inc.
Caulfield Property of Vulcan Resources Inc.
Dogpaw Lake Property of FTM Resources Inc.

Would you please sign and return two
copies of this letter. *done*

Thank you for your assistance and
cooperation.

Yours very truly,

Don B. Sutherland

DBS*BC

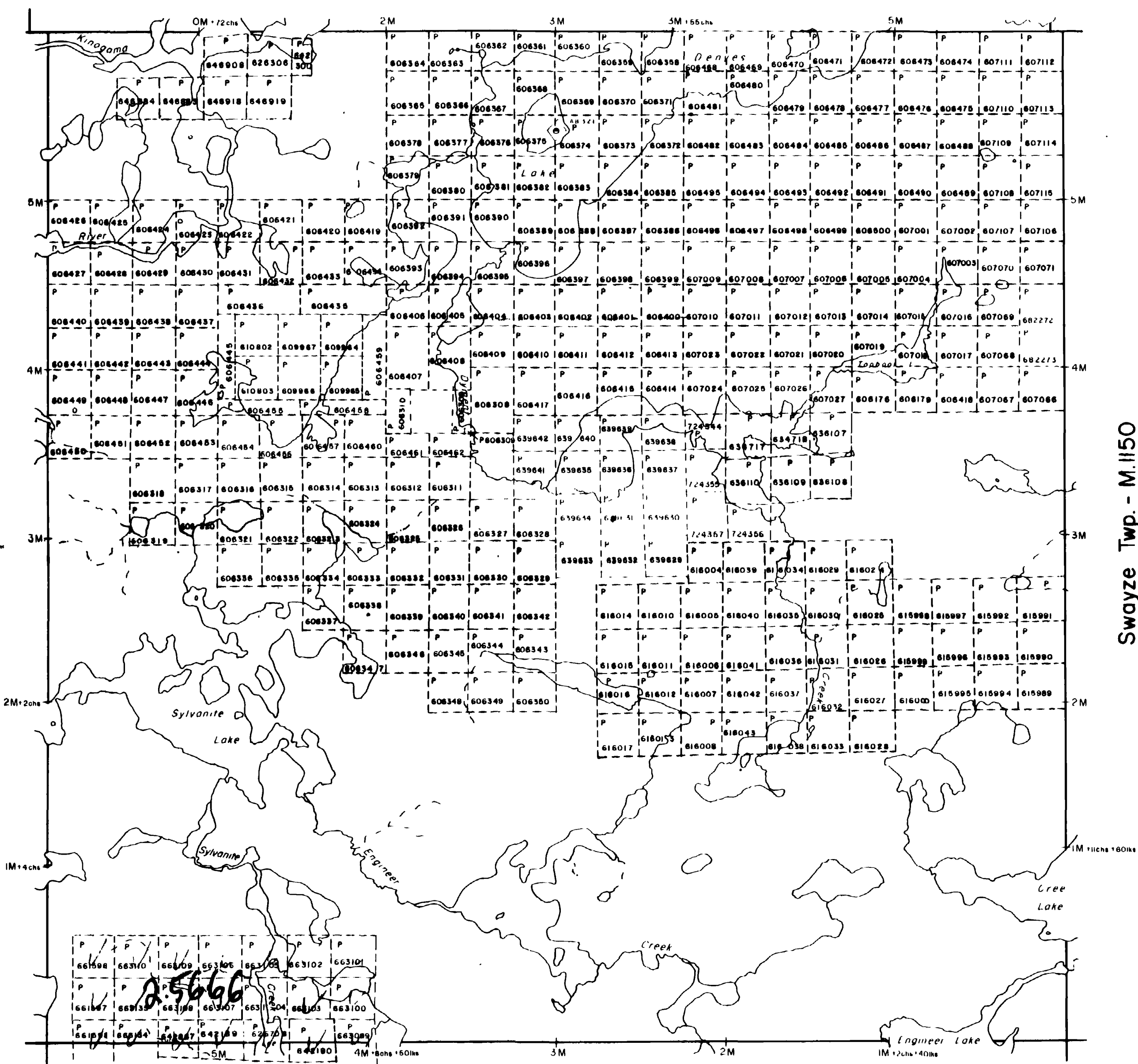
RECEIVED	
Land Management Branch	
CIRCULATE	<input type="checkbox"/>
COMMENTS PLEASE	<input type="checkbox"/>
BY	
JUN 30 1983	
E. F. ANDERSON	
J. R. MORTON	
J. C. SMITH	
G. SHERMAN	

1.1

e/c	e/c	6028							
e/c	e/c	80							
e/c	e/c	86							
e/c	e/c	165000							
e/c	e/c	75000							
e/c	e/c	83	✓	✓	11800	e/c	e/c	100000	
e/c	e/c	158351	✓	✓	10	e/c	e/c	100	
e/c	e/c	331000	✓	✓	60	✓	✓	100	
e/c	e/c	60	✓	✓	30	✓	✓	30	
e/c	e/c	70	✓	✓	40	✓	✓	76	
e/c	e/c	80	✓	✓	50	✓	✓	61599	
e/c	e/c	90	✓	✓	60	✓	✓	393043	
e/c	e/c	100	✓	✓	70	✓	✓	498073	
e/c	e/c	110	✓	✓	80	✓	✓	648190	
e/c	e/c	120	✓	✓	90	✓	✓	68	
e/c	e/c	130	✓	✓	10	✓	✓	88	
e/c	e/c	140	✓	✓	100	✓	✓	472157	
e/c	e/c	150	✓	✓	99	✓	✓	307000	
e/c	e/c	160	✓	✓	663098	✓	✓	P-663098	
Mag. E.M.	Mag. E.M.					Mag. E.M.	Mag. E.M.		

0.5666

Raney Twp. - M.1069



Halcrow Twp. - M.906

Swayze Twp. - M.1150

Greenlaw Twp. - M.895

THE TOWNSHIP OF DENYES

DENYES

DISTRICT OF SUDBURY

PORCUPINE MINING DIVISION

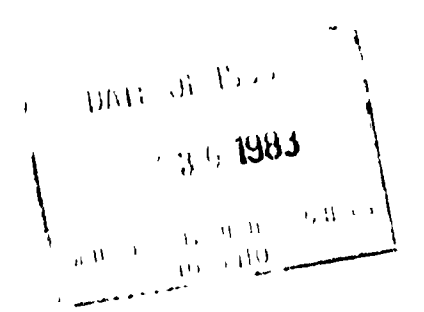
SCALE: 1-INCH = 40 CHAINS

LEGEND

PATENTED LAND	⊗
CROWN LAND SALE	C.S.
LEASES	⊙
LOCATED LAND	L.O.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	—
IMPROVED ROADS	—
KING'S HIGHWAYS	—
RAILWAYS	—
POWER LINES	—
MARSH OR MUSKEG	—
MINES	—
CANCELLED	—
PATENTED FOR S.R.O.	—

NOTES

400' surface rights reservation along the shores of all lakes and rivers



PLAN NO. M.758

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



Denyes Twp. - M.758

THE TOWNSHIP OF
OF

GREENLAW

DISTRICT OF
SUDBURY

PORCUPINE
MINING DIVISION

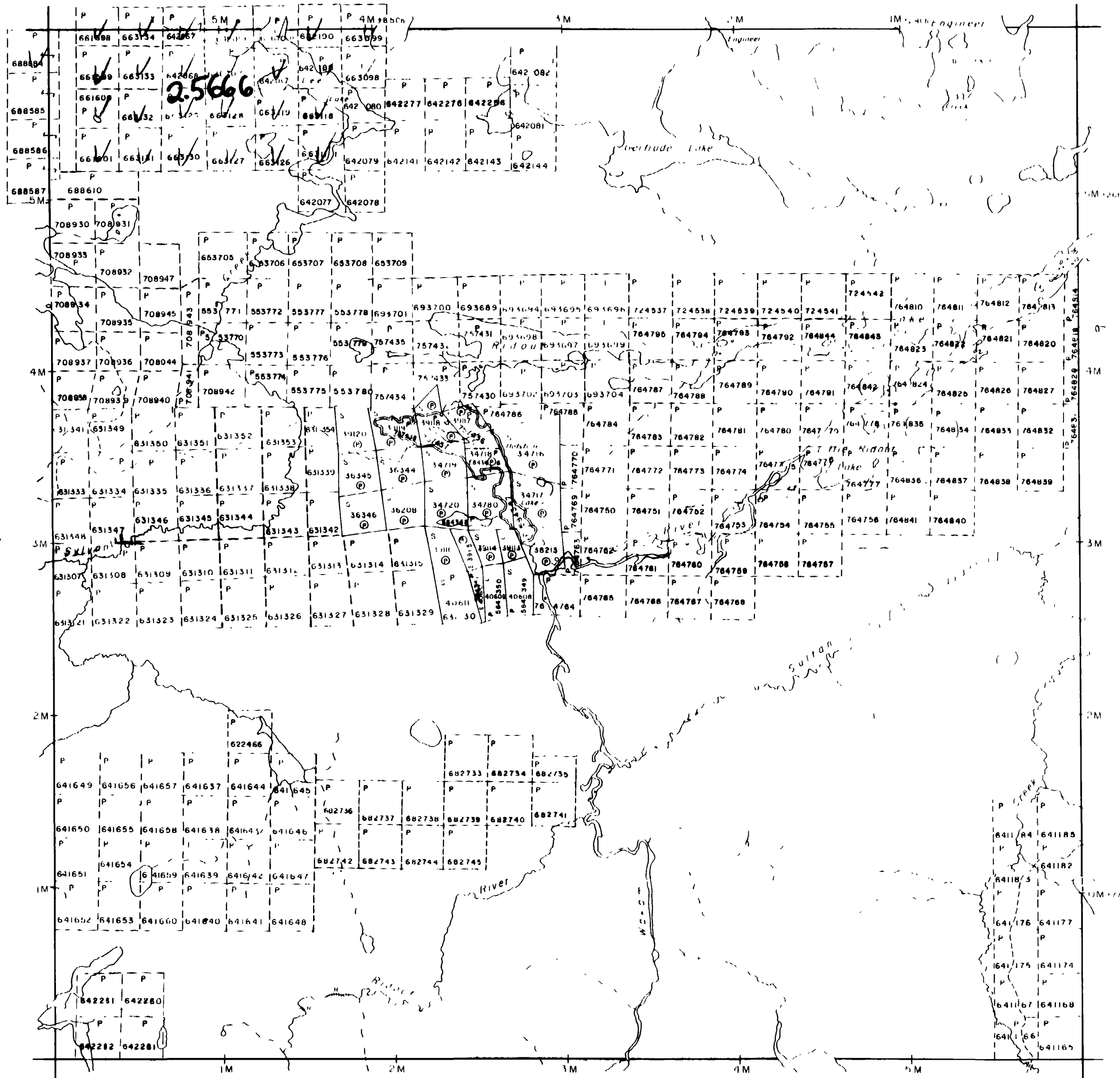
SCALE: 1-INCH 40 CHAINS

LEGEND

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

NOTES

400' Surface Rights Reservation around
all lakes and rivers



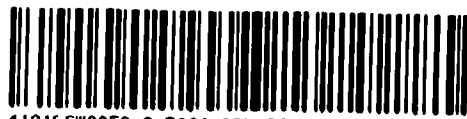
Tooms Twp. - M.1159

Cunningham Twp. - M.744

Twp. 22 - M.1196

PLAN NO. **M.895**

MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



410155W0058 2 5666 DENYES

Crockett Twp. - M.740

THE TOWNSHIP
OF
HALCROW

DISTRICT OF
SUDBURY

PORCUPINE
MINING DIVISION

SCALE: 1-INCH 40 CHAINS

LEGEND

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

NOTES

400' Surface Rights Reservation around
all lakes and rivers

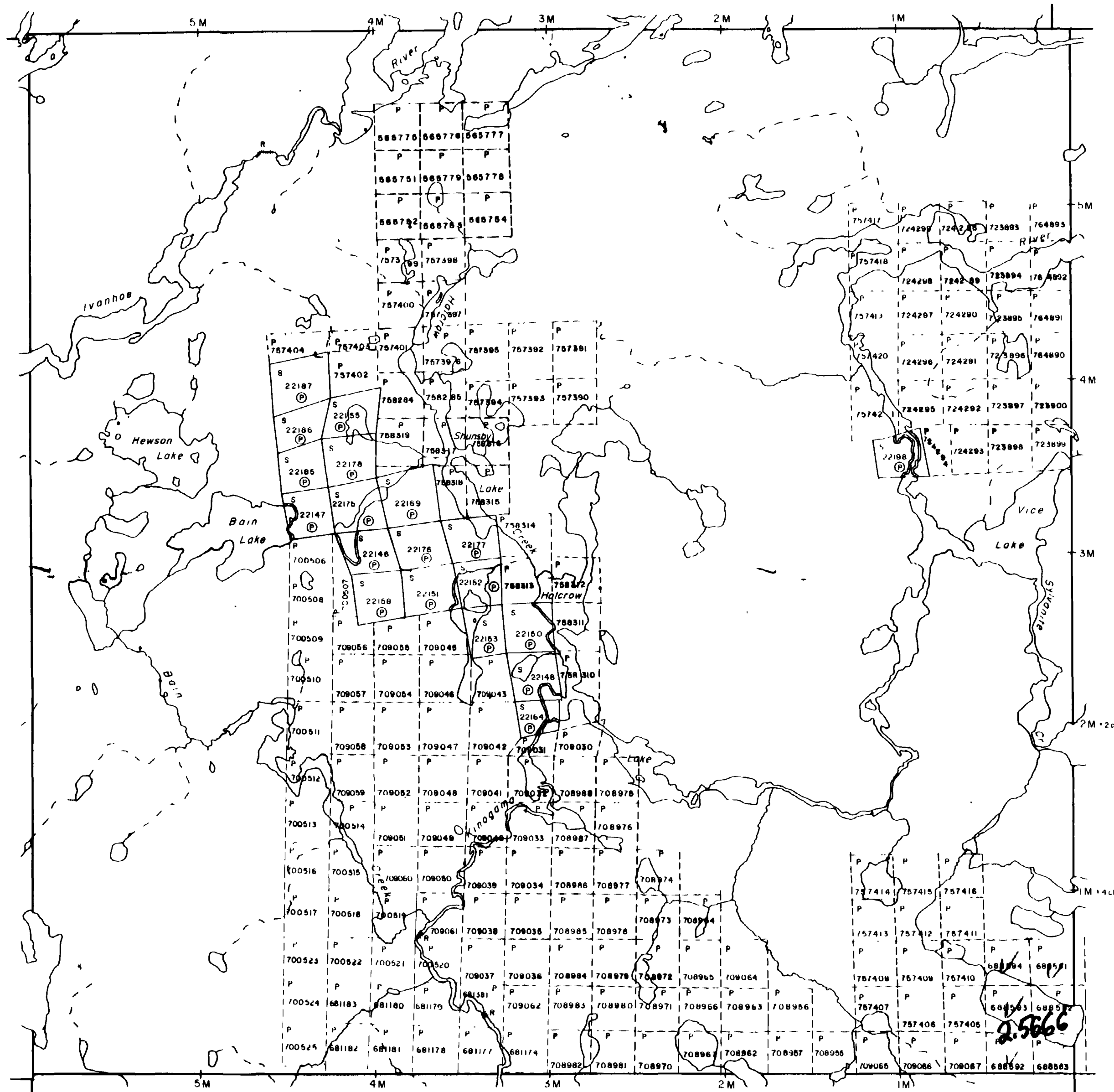
DATE OF ISSUE
1983

PLAN NO. **M.906**

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

Lackner Twp. - M.975

Denyes Twp. - M.758



Tooms Twp. - M.1159



41015W0058 2 5666 DENYES

Halcrow Twp. M.906

THE TOWNSHIP
OF

TOOMS

DISTRICT OF
SUDBURY

PORCUPINE
MINING DIVISION

SCALE 1-INCH = 40 CHAINS

LEGEND

PATENTED LAND	(P)
CROWN LAND SALE	(CS)
LEASES	(L)
LOCATED LAND	(Loc)
LICENSE OF OCCUPATION	(LO)
MINING RIGHTS ONLY	(M.R.O.)
SURFACE RIGHTS ONLY	(S.R.O.)
ROADS	(---)
IMPROVED ROADS	(=)
KING'S HIGHWAYS	(=)
RAILWAYS	(=)
POWER LINES	(=)
WATER OR WATERSHED	(=)
WELLS	(X)
CANCELLED	(=)

NOTES

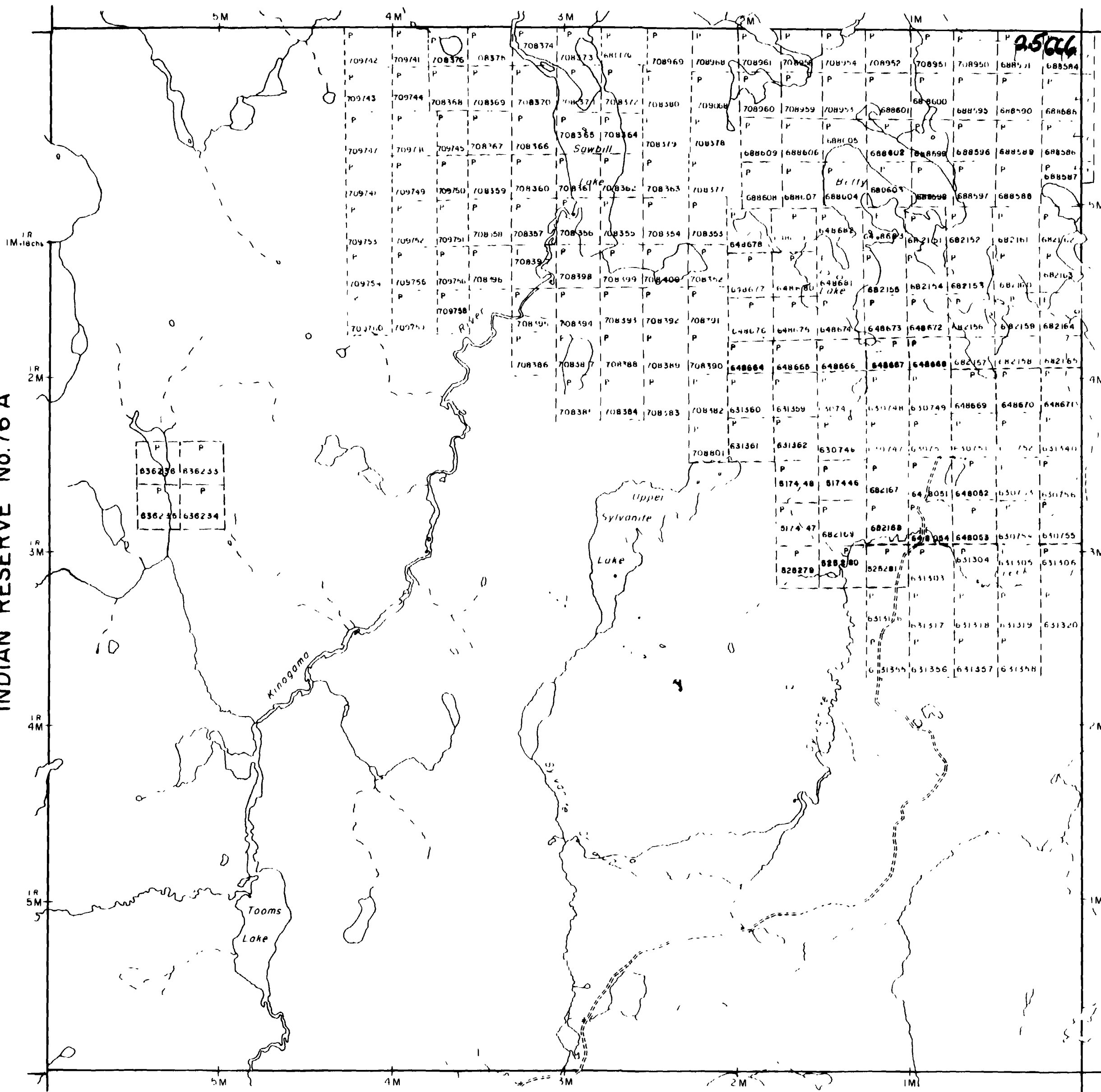
400' Surface Rights Reservation around
all lakes and rivers

PLAN NO. **M.1159**

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEY AND MAPPING BRANCH

Mountbatten Twp. - M.875
INDIAN RESERVE No.76 A

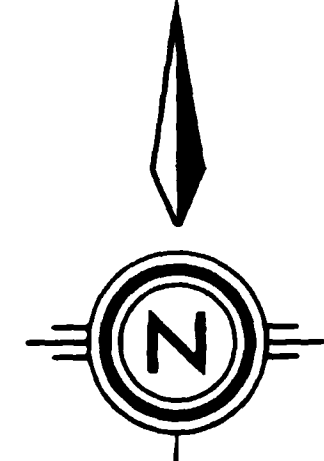
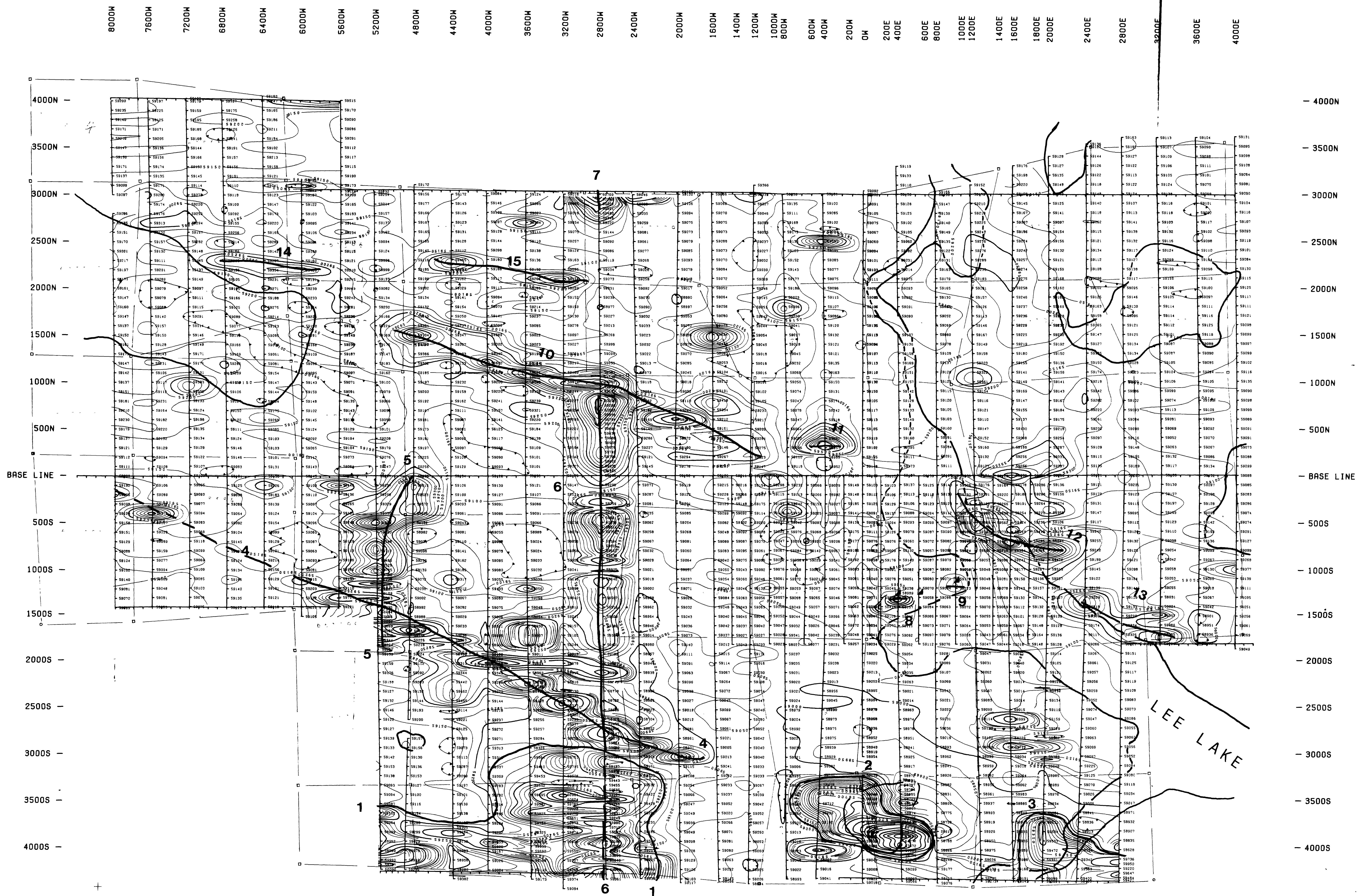
Greenlaw Twp. - M.895



Eisenhower Twp. M.781



410156W0058 2.6666 DENYES



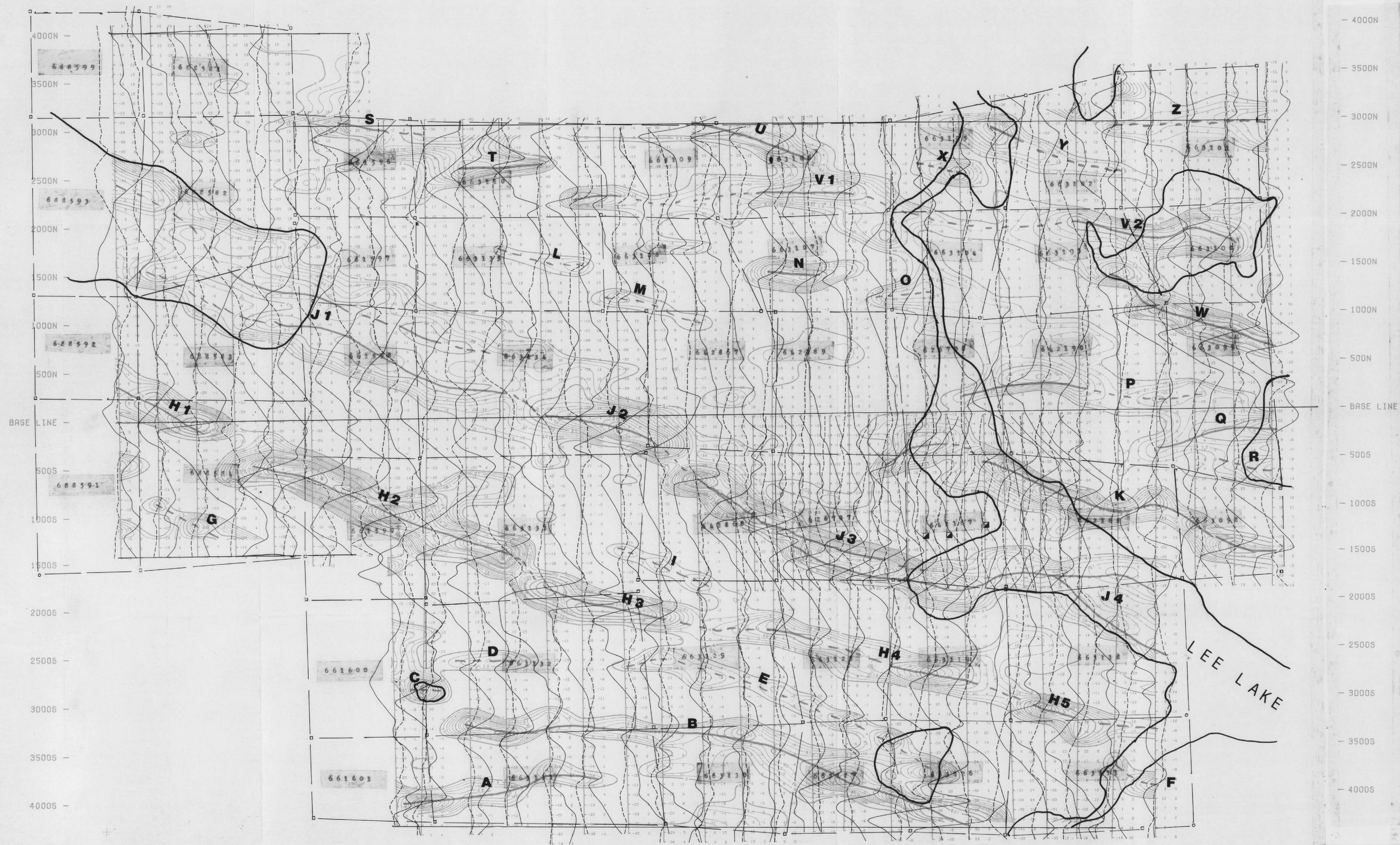
- CONTOUR INTERVAL: 50 METERS
- MAGNETIC LINEATION
- CLAIM POST LOCATED
- CLAIM POST ASSUMED
- PROPERTY BOUNDARY

David R. Bell

DAVID R. BELL GEOLOGICAL SERVICES INC.
MAGNETIC SURVEY
COLLINGWOOD ENERGY INC.
LEE LAKE PROPERTY
GREENLAW, DENYES TOWNSHIP, ONTARIO

SCALE: 1" = 400 FT. DATE: MAY 1995
 DRAWN BY: B.C. CHECKED BY: P.B.S.

8000M 7600M 7200M 6800M 6400M 6000M 5600M 5200M 4800M 4400M 4000M 3600M 3200M 2800M 2400M 2000M 1600M 1400M 1200M 1000M 800M 600M 400M 200M 0E 200E 400E 600E 800E 1000E 1200E 1400E 1600E 1800E 2000E 2400E 2800E 3200E 3600E 4000E



- IN PHASE CONTOUR OF FARRER FILTER
- SURFACE PROFILE 1"=400'
- GRID PROFILE 1"=400'
- EM ZONES
- STATION + CUTLER-MINE
- FREQUENCY 17.8 MHz
- CLAIM POST LOCATED
- CLAIM POST ASSUMED
- PROPERTY BOUNDARY

Don R. Bell
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL ENGINEERING
 PROVINCE OF ONTARIO

DAVID R. BELL GEOLOGICAL SERVICES INC.

VLF - EM SURVEY
 COLLINGWOOD ENERGY INC.
 LEE LAKE PROPERTY
 GREENLAW, DENYES TOWNSHIP, ONTARIO

SCALE 1" = 400 FT. DATE: MAY, 1993
 DRAWN BY: B.C. CHECKED BY: D.B.S.

8000W 7600W 7200W 6800W 6400W 6000W 5600W 5200W 4800W 4400W 4000W 3600W 3200W 2800W 2400W 2000W 1600W 1400W 1200W 1000W 800W 600W 400W 200W 0E 200E 400E 600E 800E 1000E 1200E 1400E 1600E 1800E 2000E 2400E 2800E 3200E 3600E 4000E

