



42A07SW0023 2.8363 BLACKSTOCK

010

Report on a Magnetic & VLF - EM Survey

Carried Out
on the

MELROSE RESOURCES LTD.
Blackstock Property

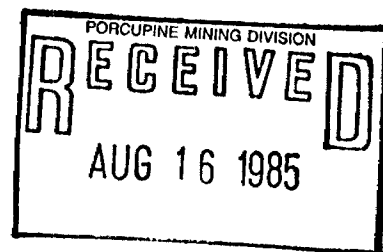
RECEIVED

AUG 20 1985

MINING LANDS SECTION

by

R. Bruce Durham



P.O. Box 1637

R.S. Middleton Exploration Services Inc.
Timmins, Ontario
August 14, 1985

P4N 7W8



42A075W0023 2.8363 BLACKSTOCK

010C

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Specifications

Geometrics Proton Magnetometer Model G-816
Geonics Limited EM 16

INTRODUCTION

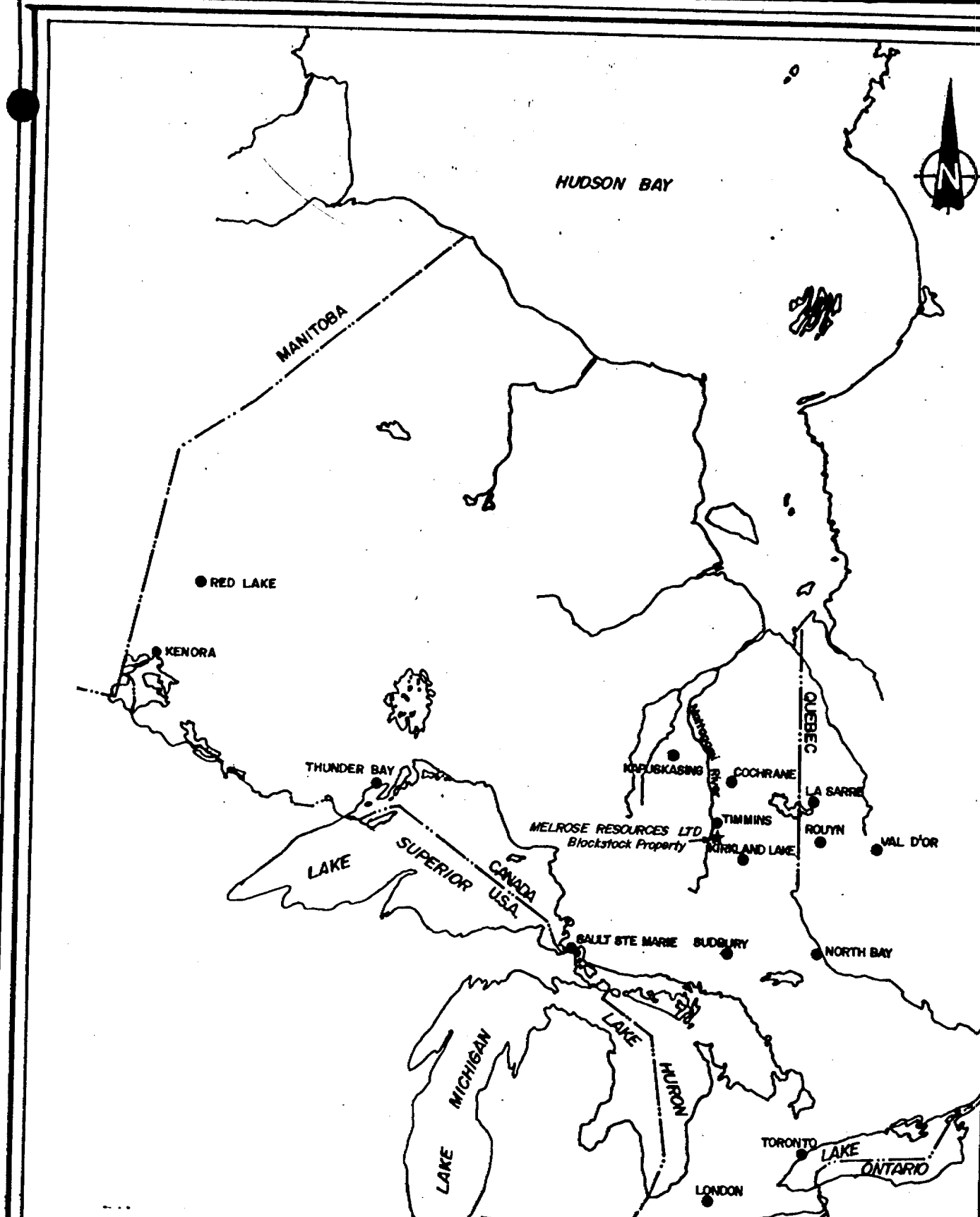
Magnetic and VLF-EM surveying were carried out by Mid Canada Exploration Services Ltd. on behalf of 502095 Ontario Ltd. between December 1, 1984 and May 30, 1985 over a group of 47 unpatented mining claims in Blackstock, Fasken, Fallon, and Langmuir Townships as a preliminary phase of exploration to determine the bedrock source of gold mineralized float discovered in the northeast portion of claim P 783315 by prospector W. Dallaire, in 1983.

LOCATION AND ACCESS

The property, which consists of considerably more than the 47 claims covered by these surveys, is located in the southwestern portion of Blackstock Township, with small parts of the property extending into Fasken, Fallon and Langmuir Townships.

The property is located approximately 22 air miles southeast of Timmins, Ontario and is accessible via a network of logging roads that connect with both the Langmuir Mine road and the Gibson Lake Road. The Langmuir mine road leaves South Porcupine in a southerly direction, and the Gibson Lake road leaves highway 101 just east of the junction with highway 67 some 22 miles east of Timmins.

One of the roads extends northeasterly across the southern



REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.		
	for	MELROSE RESOURCES LTD.	
	Title	PROVINCE OF ONTARIO Location Map	
	Date: Aug. 1985	Scale: 1:10 000 000	N.T.S.
	Drawn: C.G.	Approved:	File: M-75

FIG. 1

part of the survey area.

PROPERTY

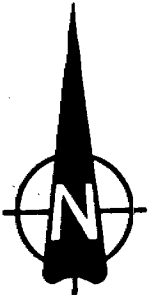
The part of the property covered by subject survey consists of the following 47 unpatented mining claims in the Porcupine Mining Division:

P 783 302 - P 783 325 incl.
P 783 327 and P 783 328
P 781 353 - P 781 355 incl.
P 836 654 - P 836 658 incl.
P 789 693
P 836 659 and P 836 660
P 836 668 and P 836 669
P 836 980
P 836 664 and P 836 665
P 789 918 and P 789 919
P 789 907 - P 789 909 incl.

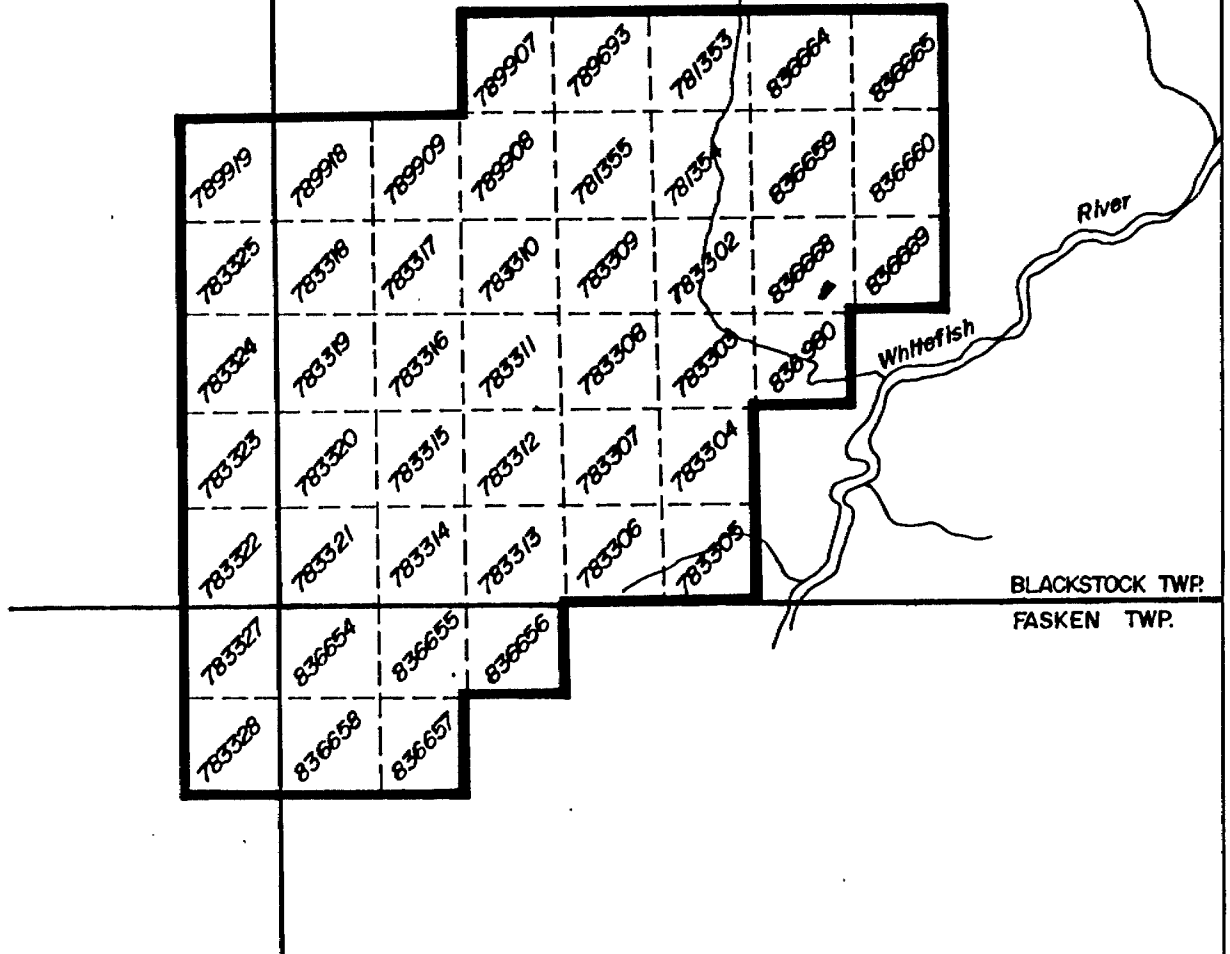
All claims are registered in the name of 502095 Ontario Ltd., holder of corporate prospector licence T-1268.

PREVIOUS WORK

The only work recorded on claims which covered the subject survey area consisted of magnetic and EM surveying carried out over a group of claims in Langmuir Township in 1966. Part of the survey covered the area now encompassed by claims P 789 919, P 783 325, and P 783 325. An oval shaped magnetic high more or less centered in Langmuir Lake probably reflects the presence of an ultramafic body. The work, which is covered in Assessment File T-1323 in the MNR Timmins Assessment files, indicates the



LANGMUIR TWP.
BLACKSTOCK TWP.



BLACKSTOCK TWP.
FASKEN TWP.

REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.		
	for	MELROSE RESOURCES LTD.	
	Title	BLACKSTOCK TOWNSHIP Larder Lake Mining Division, Ontario	
		Claim Location Map	
		FIG. 2	
	Date: Aug. 1985	Scale: 1"=1/2 mile	N.T.S.:
	Drawn: C.G.	Approved:	File: M-75

work was carried out by Lake Kozak Mines Ltd. and that no further work was done on the property.

McPhar Geophysics Ltd. carried out magnetic and vertical loop EM surveys on behalf of International Kenville Gold Mines Ltd. during 1965 on a group of claims in southwest Langmuir Township. Four drill holes were put down on targets defined by the survey. The magnetic survey shows the general strikes in the area covered by the survey to be slightly east of north. The drilling failed to detect any mineralization or structures to explain the conductive zones and no further work was reported to the Ministry of Natural Resources.

INCO carried out magnetic and EM surveying, and undertook considerable drilling on its holdings, mostly in Langmuir Township in search of economic nickel sulfide mineralization in 1971 (MNR File T-1386). The magnetic survey shows general trends in the area north and west of the subject survey area to be generally north-south but varying to northeast-southwest and northwest-southeast.

L. Hill prospected, trenched, and drilled 2 drill holes to test a molybdenite showing hosted within a "feldspar granite", located southeast of the survey area. The small property was located just east of the Whitefish River, the northwest corner of which would be more or less contiguous with the #2 post of current claim P 836 669. The best values obtained in the

drilling appear to be .05% molybdenite.

Sutherland Engineering carried out magnetic and Sharpe SE-200 EM surveys during August, 1965 on behalf of Kidd Mining Co. Ltd. over a block of claims approximately 1 mile north of the subject survey area.

No outcrops were found on the property but a tentative geologic interpretation was arrived at based upon the geophysical data and the numerous boulders located on the property. The SE-200 EM survey showed only weak discontinuous conductive features and no further work was recommended.

GENERAL GEOLOGY

The property lies in a little explored and poorly understood area just east of the Shaw Dome southeast of Timmins.

Previous ground work and interpretation of geophysical data indicates that the property covers the contact between hornblende granite and a suite of mafic and ultramafic rocks which strike more or less northerly.

Gold mineralization was discovered in 1983 by W. Dallaire in what appears to be large boulders of carbonate altered and pyritized ultramafic rocks (probably flows).

SURVEY PROCEDURE, INSTRUMENTATION & STATISTICS

A detailed grid with east-west picket lines at 400 foot

intervals was established over all 47 claims. Baseline 0, line 0 was started at the location of the gold mineralized float found by prospector W. Dallaire.

A total of 47.65 miles of line was cut and chained.

The surveys were carried out between December 1, 1984 and May 30, 1985 by D. Baird, D. Rochon, P. Cameron, and R. Rochon. Magnetic readings were taken at 100 foot intervals along all lines using a Geometrics G-816 proton precession magnetometer. Regular tie-ins were done to minimize the diurnal drift problems and the data was corrected for diurnal drift assuming a linear change with time.

A total of 2,474 stations were read in the course of the survey.

The VLF - EM survey was carried out using the Annapolis, Maryland remote transmitter station. If, as indicated on ODM Map P.445, the strike of bedrock units in the area are north-westerly, Seattle, Washington may have been a better transmitter station to provide better coupling with stratabound conductive sources.

Some 2475 stations were read in the course of the survey.

All data was plotted at a scale of 1"=400' and the magnetic data was contoured at 100 gamma intervals. The VLF - EM data is presented in profile form and a Fraser filter contour plot of the data also accompanies the report.

INTERPRETATION

Magnetic Survey

The most prominent feature outlined by the magnetic survey is a magnetic high caused by a large, regionally extensive late Precambrian olivine diabase dike which traverses the southern part of the survey area at 050°.

An apparent left hand offset of up to 1400 fet appears evident along a 340° azimuth near the east extremities of lines 0, 400N and 800N.

The faulted extension of the dike is evident along a similar azimuth (050°) across lines 2400N through 4400N.

An apparent diabase dike, striking approximately 340°, was delineated from the south boundary of the survey area on line 4400S at 300 to 600W to at least line 0 at 2600 to 2900 west. A due north striking narrow magnetic feature may be the northward extension of the dike.

The strong magnetic feature defined on lines 2800N, 3200N, 3600N from roughly 600E to 1900W is interpreted to be caused by the presence of ultramafic rocks containing appreciable magnetite.

Similarly, ultramafic rocks are thought to be the cause of the magnetic high defined in the area east of the baseline on lines 4800N to 6400N.

VLF - EM Survey

Numerous weak to very weak crossovers were defined throughout the property but only the more continuous and/or stronger zones are commented on, and have been designated with letters from A through L.

- Zone "A" Moderate amplitude crossover across lines 4400, 4000 and 3600S which shows up well on the Fraser Filter plan map.
- Zone "B" While generally weak to very weak in amplitude of response this anomaly is traceable over some 5,200 feet from line 2000S to line 3200N.
- Zone "C" As in the case of anomaly "B" this zone is weak but traceable for considerable strike length (L1200N to L4400N).
- Zone "D" is a weakly conductive zone which roughly parallels the contact of the regional diabase dike.
- Zone "E" which parallels the contact of a north trending diabase near Line 0, is discernible only on Lines 4400, 4000 and 3600S. This zone is weakly defined on the Fraser Filter Plan map.
- Zone "F" is a 1200' long zone of good amplitude which appears to correspond with a break in the magnetic pattern within the olivene diabase dike. This feature may represent either deepening overburden or a cross fracture within the dike.
- Zone "G" is a weakly conductive zone which was defined over a length of 1200'.
- Zone "H" parallels Zone "G" and is also a weakly conductive feature.

Zone "I" may represent, or be a reflection of, the apparent fault which offsets the large regional diabase dike. This zone is well defined on the Fraser Filter Plan.

Zone "J" and Zone "K" are weak north trending zones of uncertain origin.

Zone "L" roughly parallels one contact of the regional diabase dike and may be caused by deepening or more conductive overburden.

The lack of outcrop, uncertain geology and unknown overburden conductivity makes any interpretation of the VLF-EM data somewhat tentative.

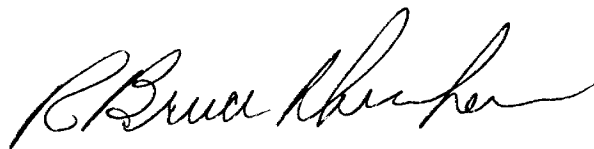
SUMMARY AND CONCLUSIONS

The subject surveys have been successful in aiding in the interpretation of the bedrock geology and consequently in trying to identify the bedrock source of the mineralized float discovered by Mr. W. Dallaire.

Since the main interest in the property has been generated by the discovery of mineralized float and little outcrop occurs on the property, it is recommended that the entire property be mapped in detail with a definite emphasis on the pleistocene deposits; their type, boulder type, lithologic concentration, boulder angularity, etc.

Areas defined to be of interest should then be followed up on using a combination of overburden sampling techniques and Induced Polarization surveying to define areas of anomalous gold content (in the overburden) and areas of suspected concentration of disseminated pyrite which typifies the mineralized float.

Respectfully Submitted,



R. Bruce Durham,
Consulting Geologist

REFERENCES

MNR Assessment Files

Kidd Mining Co. Ltd. T-1260
International Kenville Gold Mines Ltd. T-1205
Inco T-1386
L. Hill Property T-1482
Lake Kozak Mines Ltd. T-1323

Maps

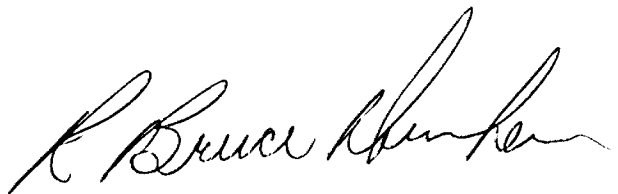
ODM Preliminary Map 2205 1" = 4 miles
ODM Preliminary Map P 445 1" = 1/4 mi.
ODM Preliminary Map P 119 1" = 1mi.
GSC Aeromagnetic Sheet 294G 1:50,000
ODM Preliminary Map P 444, Langmuir Township
1"=1/4 mi.
ODM Preliminary Map P 497, Fasken Township
1"=1/4 mi.
ODM Preliminary Map P 496, Fallon Township
1"=1/4 mi.

CERTIFICATION

I, R.Bruce Durham of Timmins, Ontario certify concerning my report on the Melrose Resources Ltd. property that:

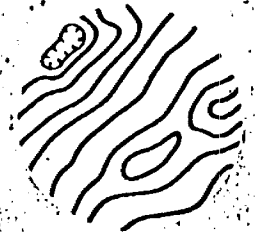
1. I am a graduate of the University of Western Ontario having obtained a Bachelor of Science degree in Geology in 1976.
2. I am a Fellow of the Geological Association of Canada.
3. I have been practising my profession primarily in Canada since 1976.

Dated this August 14, 1985, at Timmins, Ontario.

A handwritten signature in cursive script, appearing to read "R. Bruce Durham".

R.Bruce Durham, B.Sc.

geometrics



Instrument Division

PORTABLE PROTON MAGNETOMETER MODEL G-816



- ★ 1 gamma sensitivity and repeatability
- ★ Very small size and weight: less than 12 lbs complete with batteries and sensor
- ★ Over 10,000 readings per set of alkaline "D" cell (flashlight) batteries
- ★ Provision to attach sensor to carrying harness for use without staff
- ★ Pushbutton operation—numeric display directly in gammas
- ★ Total field measurements— independent of orientation—no calibration—no leveling

The Model G-816 is a complete portable magnetometer for all man-carry field applications. As an accurate yet simple to operate instrument, it features an outstanding combination of one gamma sensitivity and repeatability, compact size and weight, operation on standard universally available flashlight batteries, ruggedized packaging and very low price.

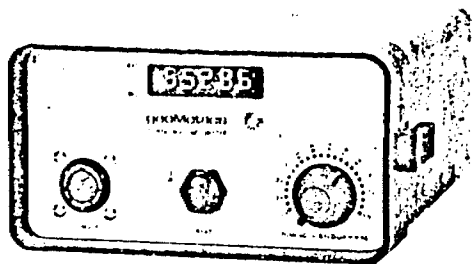
The G-816 magnetometer allows precise mapping of very small or large amplitude anomalies for ground geophysical surveys, or for detail follow-up to aeromagnetic reconnaissance surveys. It is a rugged, lightweight, and versatile instrument, equally well suited for field studies in geophysics, research programs or other magnetic mapping application where low cost, dependable operation and accurate measurements are required.

For marine, airborne or ground recording systems consider Geometrics Models G-801, G-803, and G-826A.



"Hands-free" Back Pack Sensor

Based upon the principle of nuclear precession (proton) the G-816 offers absolute drift-free measurements of the total field directly in gammas. (The proton precession method is the officially recognized standard for measurement of the earth's magnetic field.) Operation is worldwide with one gamma sensitivity and repeatability maintained throughout the range. There is no temperature drift, no set-up or leveling required, and no adjustment for orientation, field polarity, or arbitrary reference levels. Operation is very simple with no prior training required. Only 6 seconds are required to obtain a measurement which is always correct to one gamma, regardless of operator experience. Only the Proton Magnetometer offers such repeatability—an important consideration even for 10 gamma survey resolution.



Complete Field Portable System

The Model G-816 comes complete, ready for portable field operation and consists of:

1. Electronics console with internally mounted and easily replaced "D" cell battery pack.
2. Proton sensor and signal cable for attachment to carrying harness or staff.
3. Adjustable carrying harness.
4. 8 foot collapsible aluminum staff.
5. Instruction manual, complete set of spare batteries, applications manual, and rugged field suitcase.

Price and lease rates on the G-816 magnetometer are available upon request.

geoMetrics, INC.



395 JAVA DRIVE
SUNNYVALE, CA 94086 U.S.A.
TEL (408) 734-4616
CABLE "GEOMETRICS"
TELEX NO 357-435

geoMetrics 436 LIMESTONE CRESCENT
DOWNSVIEW (TORONTO),
SERVICES (CANADA) LTD. ONTARIO CANADA
TEL: (416) 661-1966
TELEX NO. 06-22694

geoMetrics 80 ALFRED ST.
MILSON'S POINT
INTERNATIONAL CORP. SYDNEY NSW 2061
AUSTRALIA
TEL 929-5942
TELEX NO 790 22624

SPECIFICATIONS

Sensitivity:	±1 gamma throughout range
Range:	20,000 to 100,000 gammas (worldwide)
Tuning:	Multi-position switch with signal amplitude indicator light on display
Gradient Tolerance:	Exceeds 800 gammas/ft
Sampling Rate:	Manual push-button, one reading each 6 seconds
Output:	5 digit numeric display with readout directly in gammas
Power Requirements:	Twelve self-contained 1.5 volt "D" cell, universally available flashlight-type batteries. Charge state or replacement signified by flashing indicator light on display.

Battery Type	Number of Readings over
Alkaline	10,000
Premium Carbon Zinc	4,000
Standard Flashlight	1,500

NOTE: Battery life decreases with low temperature operation.

Temperature Range:	Console and sensor: -40° to +85°C
	Battery Pack: 0° to +50°C (limited use to -15°C; lower temperature battery belt operation—optional)

Accuracy (Total Field): ±1 gamma through 0° to +50°C temperature range

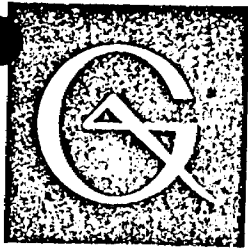
Sensor: High signal, noise cancelling, interchangeably mounted on separate staff or attached to carrying harness

Size: Console: 3.5 x 7 x 10.5 inches (9 x 18 x 27 cm)
Sensor: 3.5 x 5 inches (9 x 13 cm)
Staff: 1 inch diameter x 8 ft length (3 cm x 2.44 m)

	Lbs.	Kgs.
Console (w/batteries):	5.5	2.5
Sensor & signal cable:	4	1.8
Aluminum staff:	2	0.9
Total:	11.5	5.2

All magnetometers and parts are covered by a one year warranty beginning with the date of receipt but not to exceed fifteen months from the shipping date.

WORLD-WIDE AGENTS: EUROPE • SCANDINAVIA • UNITED KINGDOM • JAPAN • SO. AFRICA • SO. AMERICA



GEONICS LIMITED

2 Thorncliffe Park Drive, Toronto 17, Ontario, Canada. Tel. (416) 425-1821, Cables: Geonics

EM 16 VLF ELECTROMAGNETIC UNIT

Pioneered exclusively by Geonics Limited the VLF-method of electromagnetic surveying by utilization of the uniform horizontal fields generated by an existing network of reliable, fully operational Very Low Frequency transmitting stations has proved to be a major advance in geophysical exploration.

Very extensive world-wide experience since the beginning of 1965 by a large and rapidly increasing number of users, including a high proportion of major mining and exploration companies, has provided conclusive evidence of the effectiveness of the technique and the EM 16 has gained general acceptance as a basic electromagnetic tool. This evidence has also indicated the response of disseminated bodies to the VLF-method.

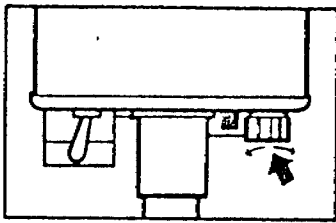
The unique self-contained EM 16 offers the unrivalled combination of LIGHT WEIGHT, ONE-MAN OPERATION and DEEP PENETRATION allowing rapid, economical surveys. Assessing the data is simplified due to the use of the uniform horizontal primary field. The patented design feature of the measurement of both the in-phase and out-of-phase (quadrature) component of the vertical field provides the information necessary for comprehensive interpretation of the field results.



SPECIFICATIONS

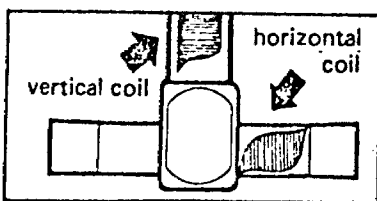
Source of primary field:	VLF transmitting stations.	Scale range:	In-phase $\pm 150\%$; Out-of-phase $\pm 40\%$.
Transmitting stations used:	Any desired station frequency supplied with the instrument in the form of plug-in tuning units. Two tuning units can be plugged in at one time. A switch selects either station.	Readability:	$\pm 1\%$
Operating frequency range:	About 15 - 25 kHz	Reading time:	10 - 40 seconds depending on signal strength.
Parameters measured:	(1) The vertical in-phase component (tangent of the tilt angle of the polarization ellipsoid). (2) The vertical out-of-phase (quadrature) component the short axis of the polarization ellipsoid compared to the long axis).	Operating temperature range:	-40 to 50°C
Method of reading:	In-phase from a mechanical inclinometer; out-of-phase from a calibrated dial. Nulling by audio tone.	Power Supply:	6 size AA (penlight) alkaline cells. Life about 200 hours.
		Dimensions:	16 x 5.5 x 3.5 in (42 x 14 x 9 cm)
		Weight:	2.5 lbs (1.1 kg)
		Instrument supplied with:	Monotonic speaker, carrying case, manual of operation, 3 station selector plug-in tuning units (additional frequencies are optional), set of batteries.
		Shipping weight:	10 lbs (4.5 kg)

SIMPLE ONE-MAN OPERATION



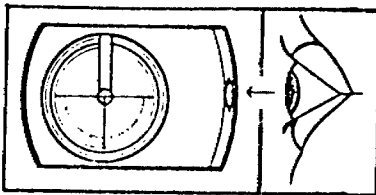
STATION SELECTOR

after selection of 2 VLF stations and insertion of proper plug-in units, knob rotation allows switching.



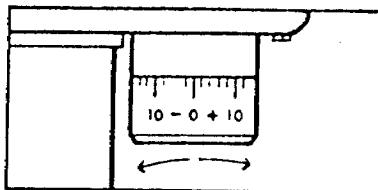
RECEIVING COILS

vertical receiving coil circuit in instrument picks up any vertical signal present. Horizontal receiving coil circuit, after automatic 90° signal phase shift, feeds signal into out-of-phase dial in series with the receiving coil.



IN-PHASE DIAL

shows the tilt-angle of the instrument for minimum signal. This angle is the measure of the vertical in-phase signal expressed in percentage when compared to the horizontal field.

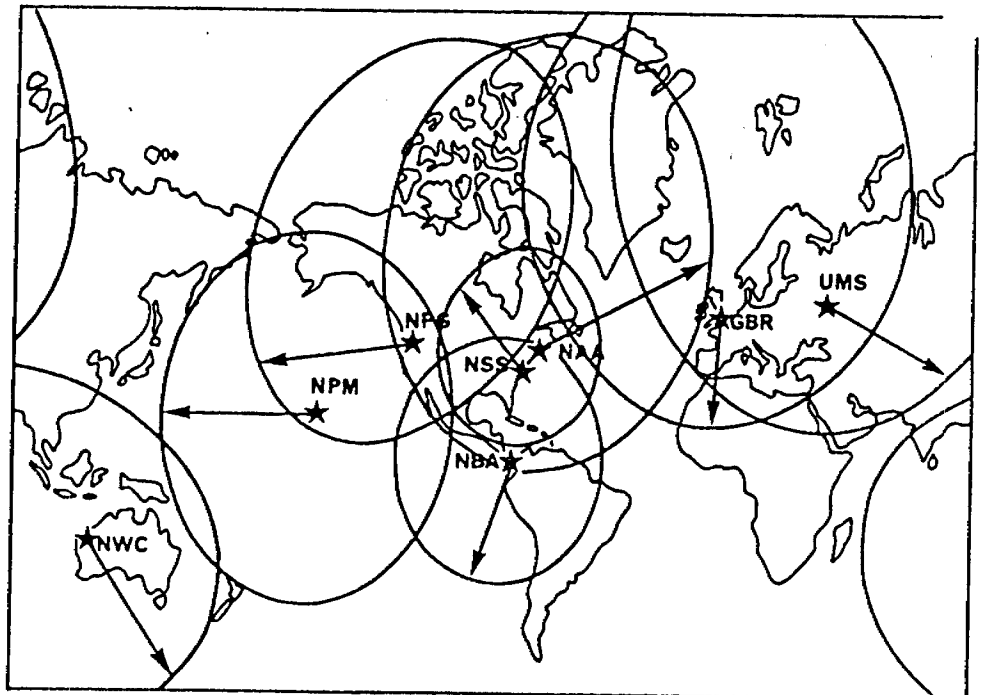


OUT-OF-PHASE DIAL

is calibrated in percentage markings and nulls the vertical quadrature signal in the vertical coil circuit.

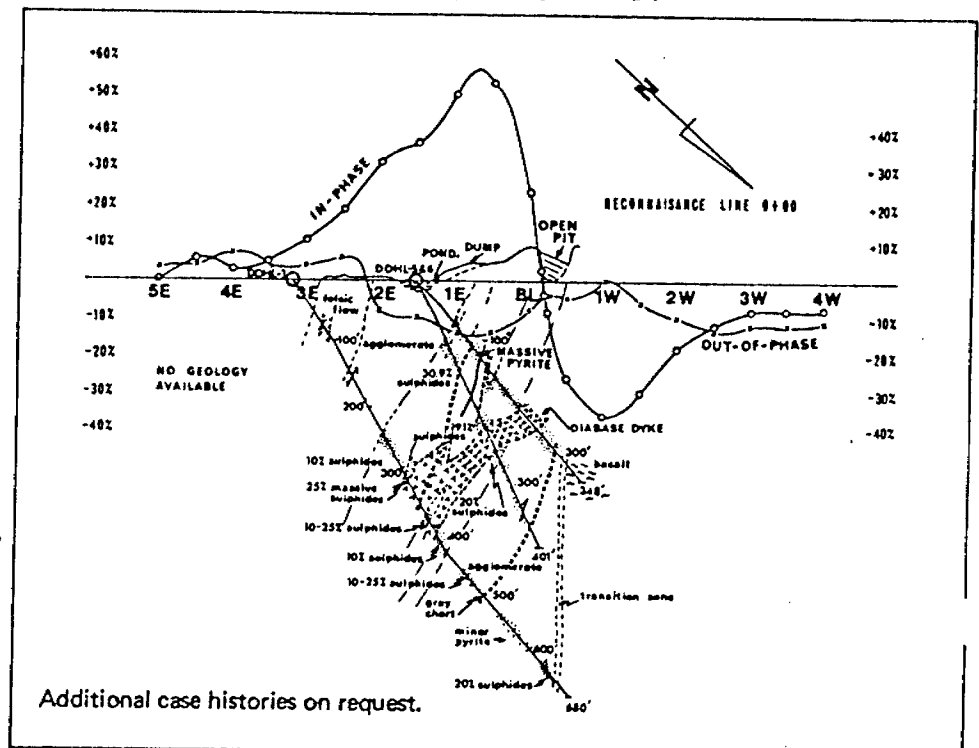
AUTHORIZED AGENT:

AREAS OF VLF SIGNALS

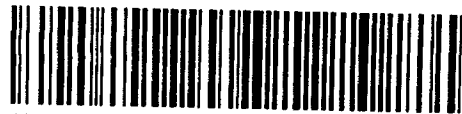


△ Coverage shown only for well-known stations. Other reliable, fully operational stations exist. For full information regarding VLF signals in your area consult Geonics Limited. Extensive field experience has proved that the above circles of coverage are very conservative and are actually much larger in extent.

EM16 PROFILE over Lockport Mine property, Newfoundland



W8526
 #212/85



42A075W0023 2.8363 BLACKSTOCK

Mining Act

900

Geophysical Survey
 Township or Area: Blackstock, Langmuir, Fallon, Fasken

Holder(s): 502095 Ontario Ltd. - Daniel Rochon M-18454
 Prospector's Licence No.: T-1268

Address: 89 Preston Street, Timmins, Ontario P4N 3N4
 Date of Survey (from & to): 01 12 84 30 05 85
 Day Mo. Yr. Day Mo. Yr.
 Total Miles of line Cut: 48.27

Company: Mid-Canada Exploration Services Limited
 Name and Address of Author (of Geo-Technical report): Robert S. Middleton Exploration Services Inc., 136 Cedar S., P. O. Box 1637, Timmins, Ont.

Days Requested per Each Claim in Columns at right Mining Claims Traversed (List in numerical sequence)

Days	Geophysical	Days per Claim
For first survey:	- Electromagnetic	40
Enter 40 days. (This includes line cutting)	- Magnetometer	20
For each additional survey:	- Radiometric	
Using the same grid:	- Other	
Enter 20 days (for each)	Geological	
	Geochemical	

Days	Geophysical	Days per Claim
For complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Days	Geophysical	Days per Claim
For Airborne Credits	Electromagnetic	
Note: Special provisions credits do not apply to Airborne Surveys.	Magnetometer	
	Radiometric	

Prefix	Mining Claim Number	Expend. Days Cr.
P	783302	
	783303	
	783304	
	783305	
	783306	
	783307	
	783308	
	783309	
	783310	
	783311	
	783312	
	783313	
	783314	
	783315	
	783316	
	783317	
	783318	
	783319	
	783320	
	783321	
	783322	
	783323	
	783324	
	783325	

Prefix	Mining Claim Number	Expend. Days Cr.
P	783327	
	783328	
	781353	
	781354	
	781355	
	836654	
	836655	
	836656	
	836657	
	836658	
	789693	
	836659	
	836660	
	836668	
	836669	
	836980	
	836665	
	836665	
	789918	
	789919	
	789907	
	789908	
	789909	

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 MINING LANDS SECTION

Total number of mining claims covered by this report of work. 47

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Expenditures includes power stripping
 Total Expenditures: \$ 15 =

Apportionment of Expenditure Days Credits
 Total Expenditures: \$ 15 =

Recorded/Holder or Agent (Signature):
 Date: June 17/85

For Office Use Only
 Total Days Cr. Recorded: 2,820
 Date Recorded: June 18 1985
 Date Approved at Registrar: 85-08-27

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

Name and Postal Address of Person Certifying: Orville E. Hicks, 189 Preston Street, Timmins, Ontario P4N 3N4
 Date Certified: June 17, 1985
 Certified by: Orville E. Hicks



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(s) Magnetic and VLF-EM

Township or Area Blackstock, Fasken, Fallon, Langmuir

Claim Holder(s) 502095 Ontario Ltd.

189 Preston St., Timmins, Ontario

Survey Company Mid Canada Exploration Services Ltd.

Author of Report R. Bruce Durham

Address of Author Box 1637, Timmins, Ontario

Covering Dates of Survey 01/12/84 to 30/05/85
(linecutting to office)

Total Miles of Line Cut 48.27

MINING CLAIMS TRAVERSED
List numerically

(see attached list)
(prefix) (number)

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AUG 20 1985

MINING LANDS SECTION

If space insufficient, attach 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: August 16/85 SIGNATURE: R. Bruce Durham
Author of Report or Agent

Res. Geol. _____ Qualifications 24980

Previous Surveys

File No.	Type	Date	Claim Holder

FOR OUPINE MINING DIVISION
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TOTAL CLAIMS 47

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GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 2475 Number of Readings 2475
Station interval 100 feet Line spacing 400 feet
Profile scale 1" = 20%
Contour interval 100 gammas

MAGNETIC

Instrument Geometrics G-816
Accuracy - Scale constant +1 gamma
Diurnal correction method Looping and tying into preestablished bases
Base Station check-in interval (hours) 1 hr.
Base Station location and value 0 + 00, BL 0 58,500 gammas

ELECTROMAGNETIC

Instrument Geonic EM-16 VLF
Coil configuration
Coil separation
Accuracy +1%
Method: [X] Fixed transmitter [] Shoot back [] In line [] Parallel line
Frequency 21.4 KH Annapolis Maryland (NSS)
Parameters measured In Phase, Quadrature

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 _____

Mining Claim		Expend. Days Cr.
Prefix	Number	
P	783302	
	783303	
	783304	
	783305	
	783306	
	783307	
	783308	
	783309	
	783310	
	783311	
	783312	
	783313	
	783314	
	783315	
	783316	
	783317	
	783318	
	783319	
	783320	
	783321	
	783322	
	783323	
	783324	

783325

Mining Claim	
Prefix	Number
P	783327
	783328
	781353
	781354
	781355
	836654
	836655
	836656
	836657
	836658
	789693
	836659
	836660
	836668
	836669
	836980
	836664
	836665
	789918
	789919
	789907
	789908
	789909

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

47

REGISTERED

August 7, 1985

Report of Work #212

502095 Ontario Ltd and
Daniel Rochon
89 Preston Street
Timmins, Ontario
P4N 3N4

Dear Sirs:

RE: Mining Claims P 783302, et al,
in the Townships of Blackstock,
Langmuir, Fallon and Fasken

I have not received the reports and maps (in duplicate)
for Geophysical (Electromagnetic & Magnetometer) Surveys
on the above-mentioned claims.

As the assessment "Report of Work" was recorded by the
Mining Recorder on June 18, 1985 the 60 day period
allowed by Section 77 of the Mining Act for the submission
of the technical reports and maps to this office will
expire on August 17, 1985.

If the material is not submitted to this office by August 17,
~~1985~~ I will have no alternative but to instruct the Mining
Recorder to delete the work credits from the claim record
sheets.

For further information, please contact Mr. Arthur Barr
at (416)965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-4888

A. Barr:mc
cc: Mining Recorder
Timmins, Ontario

Encl.

*copy given
to Ed Pigualsky a)*
Dome
85-08-13

cc: Robert S. Middleton
Exploration Services Inc
136 Cedar South
P.O. Box 1637
Timmins, Ontario P4N 3N4

Work
Geological,
and Expenditures)

#212/85 COPY
28363

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

Mining Act

Township or Area
Blackstock, Langmuir, Fallon, Fasken

Prospector's Licence No.

T-1268

Survey
Ltd. - Daniel Rochon M-18456

Street, Timmins, Ontario P4N 3N4

Date of Survey (from & to)
01 12 84 30 05 85
Day | Mo. | Yr. | Day | Mo. | Yr.

Total Miles of line Cut
48.27

Exploration Services Limited
Author (of Geo-Technical report)

S. Middleton Exploration Services Inc., 136 Cedar S., P. O. Box 1637, Timmins, Ont.

Mining Claims Traversed (List in numerical sequence)

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

Prefix	Mining Claim Number	EM	Expend. Days Cr.	Prefix	Mining Claim Number	EM	Expend. Days Cr.
P	783302	✓		P	783327	✓	
	783303	✓			783328	✓	
	783304	✓			781353	✓	
	783305	✓			781354	✓	
	783306	✓			781355	✓	
	783307	✓			836654	✓	
	783308	✓			836655	✓	
	783309	✓			836656	✓	
	783310	✓			836657	✓	
	783311	✓			836658	✓	
	783312	✓			789693	✓	
	783313	✓			836659	✓	
	783314	✓			836660	✓	
	783315	✓			836668	✓	
	783316	✓			836669	✓	
	783317	✓			836980	✓	
	783318	✓			836664	✓	
	783319	✓			836665	✓	
	783320	✓			789918	✓	
	783321	✓			789919	✓	
	783322	✓			789907	✓	
	783323	✓			789908	✓	
	783324	1/2			789909	✓	
	783325	✓					

Total number of mining claims covered by this report of work. **47**

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JUN 18 1985

Duration of Expenditure Days Credits
Total Expenditure Days Credits
S **RECORDED** 15 =
Total Days Credits may be apportioned at the claim holder's
notice. Enter number of days credits per claim selected
in columns of Appendix No. *2*

For Office Use Only
Total Days Cr. Date Recorded
2,820 June 18 1985
Date Approved as Recorded
M. J. Branley
Branch Director

Recorded Holder or Agent (Signature)
June 17/85

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

Name and Postal Address of Person Certifying
Orville E. Hicks, 189 Preston Street, Timmins, Ontario P4N 3N4
Date Certified June 17, 1985
Orville E. Hicks

Mining Lands Section

File No 28363

Control Sheet

TYPE OF SURVEY

GEOPHYSICAL
 GEOLOGICAL
 GEOCHEMICAL
 EXPENDITURE

MINING LANDS COMMENTS:

<Blackstock, Langmuir, Fallow, Fasken>

*L. J. D.
K.D.*

Domisk

Signature of Assessor

Aug. 23/85

Date

FASKEN

M.280

ONTARIO
MINISTRY OF NATURAL RESOURCES
AND MAPPING BRANCH

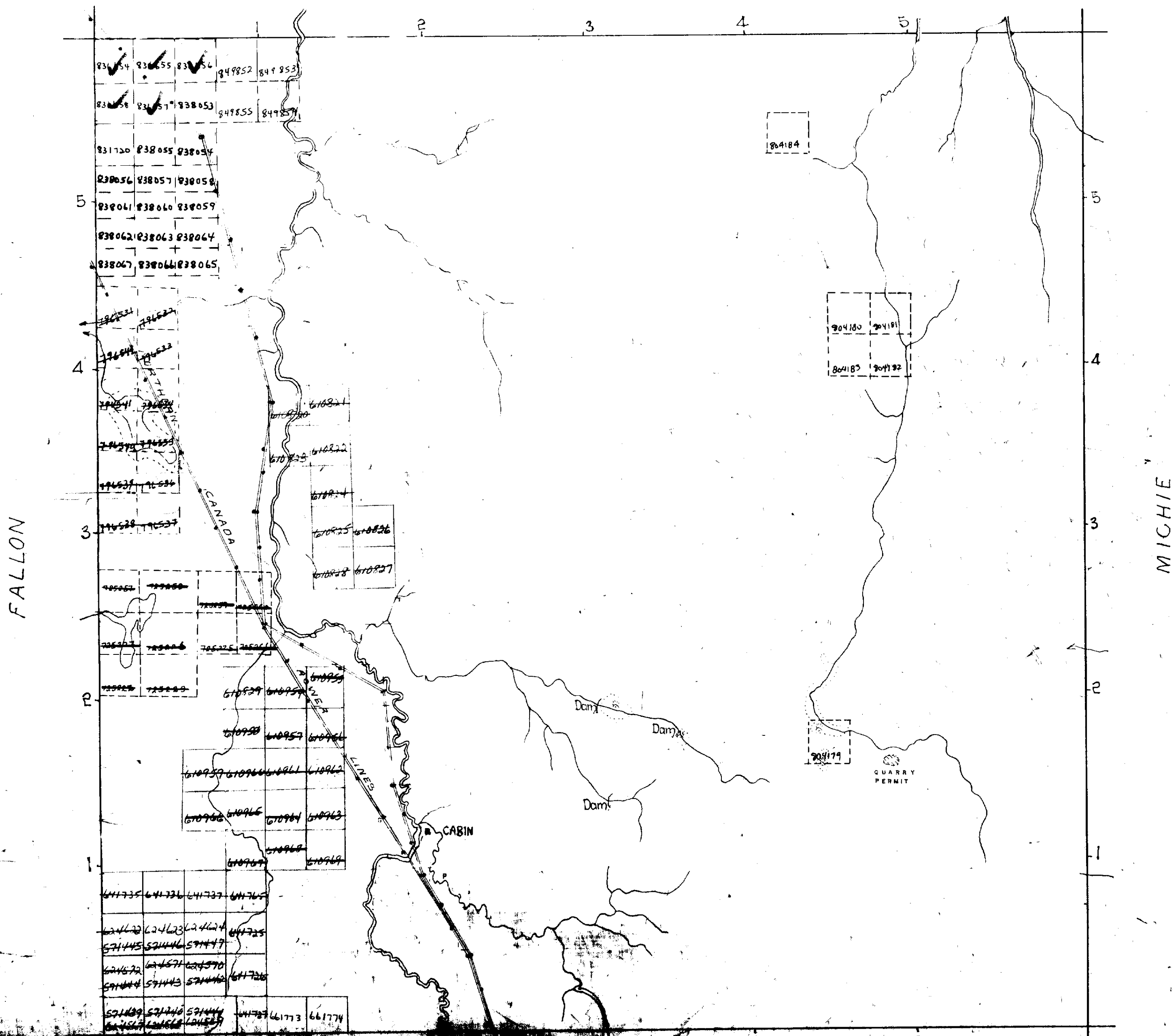
PORCUPINE MINING DIVISION

REVISION Oct 15/79

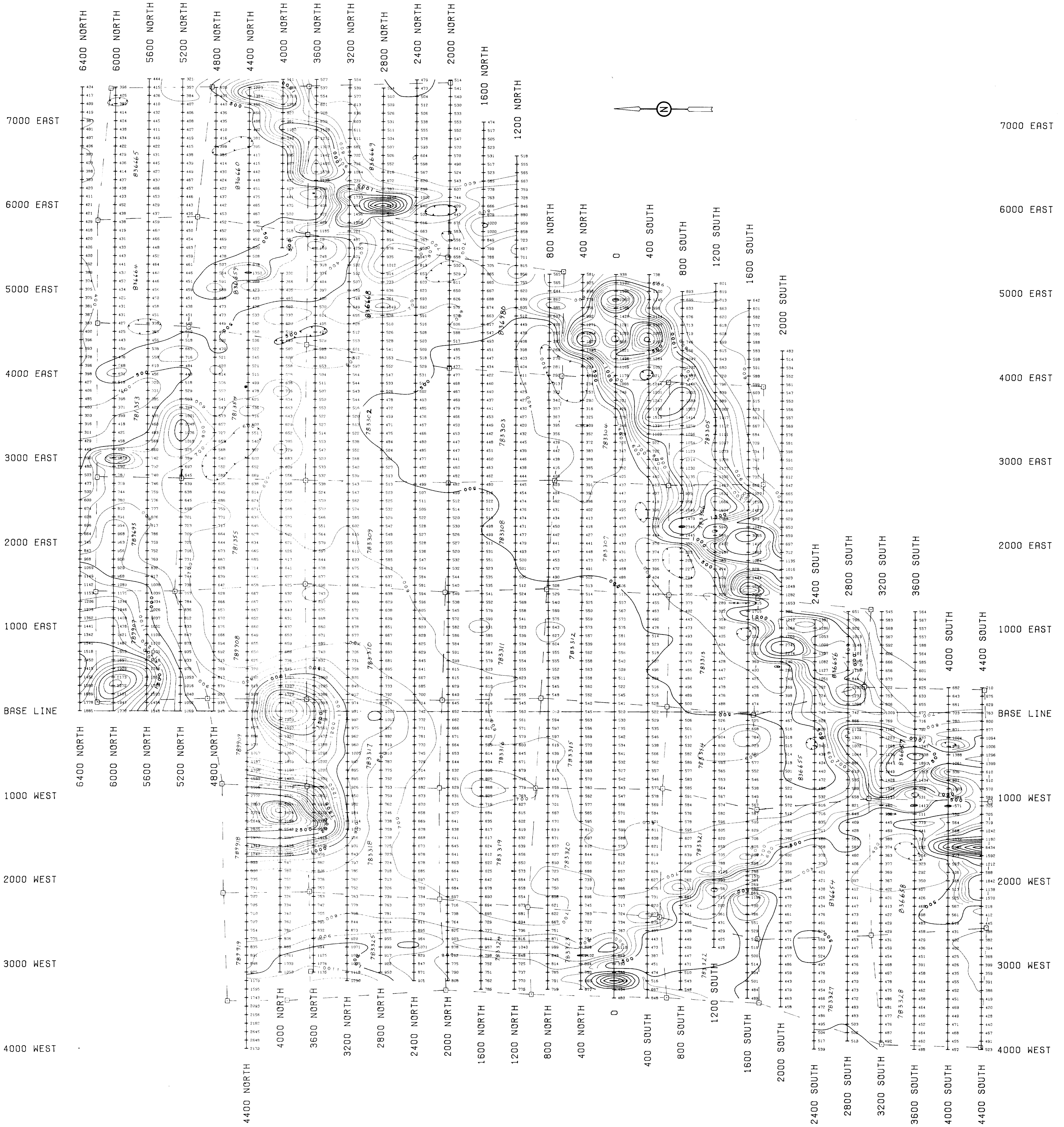
scale 40 Chains = 1 inch

THIS TMD LIES WITHIN
THE TEMAGAMI PROVINCIAL
FOREST

BLACKSTOCK

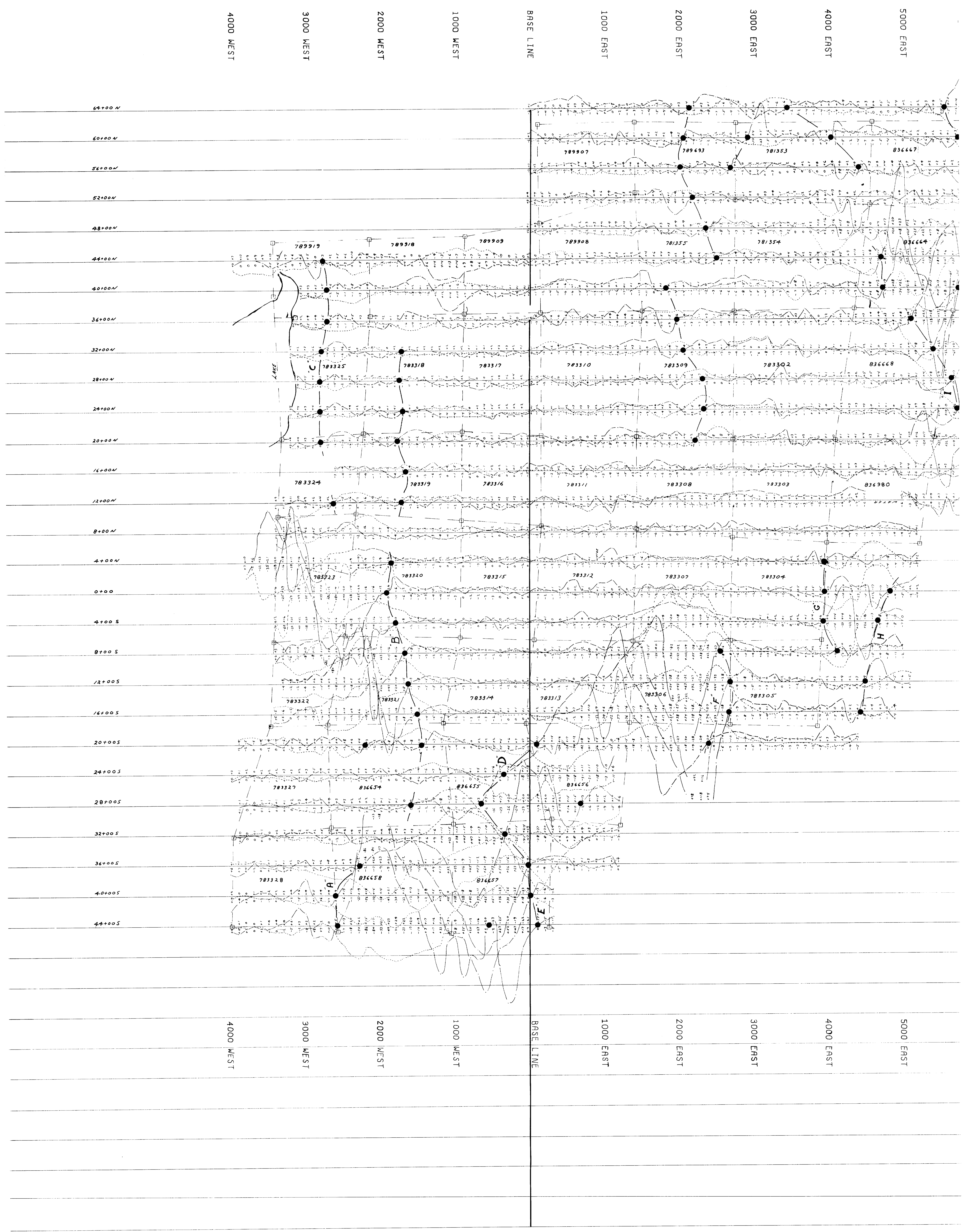


42A075W023 2.8363 BLACKSTOCK



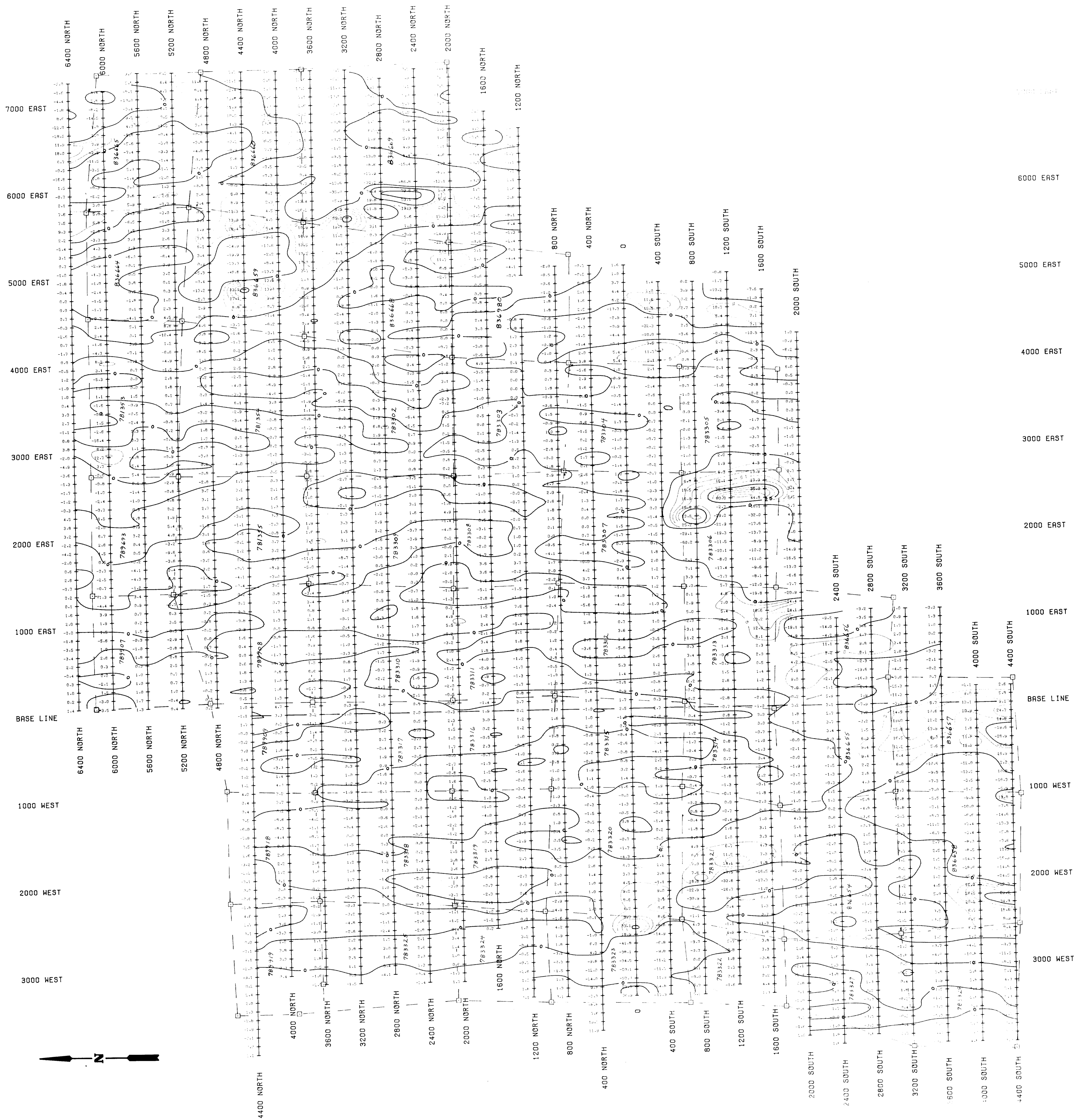
Date:	30-JUL-85	Form:	MELROSE RESOURCES	Scale:	1:4800
Approved by:		Project:		File:	
Checked by:		Base Station:	0+00 - 5+500 CANMAS	Drawn:	
Drawn by:	NORTHERN GEOTECH	Survey Type:	MAGNETIC	Contour:	
			C.1. = 100 gamma.		

28363

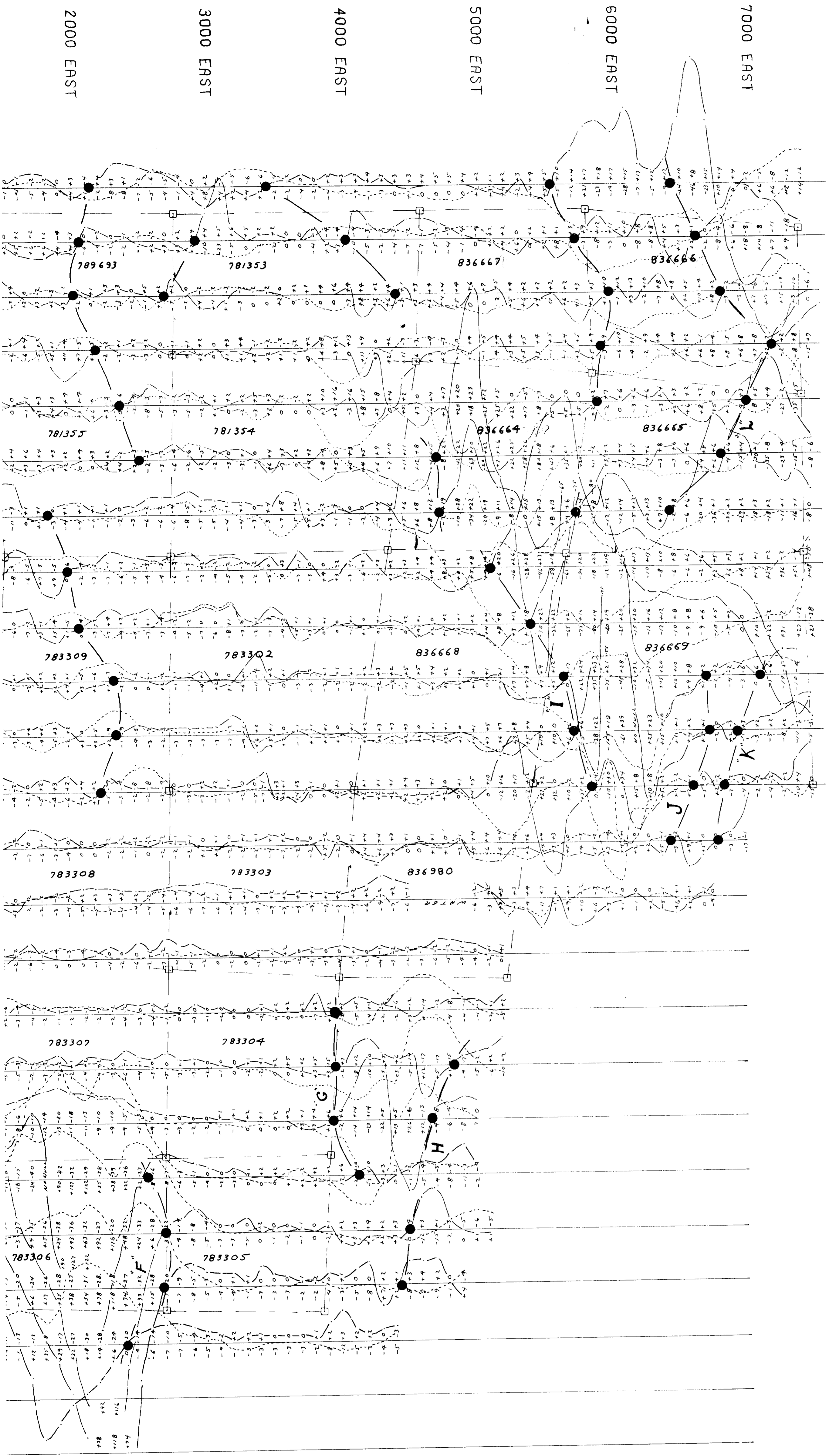


Date	AUG-15-85
Drawn By	O. HICKS

MID-CAN
EXPLORATION SERV



28363
R. Bruce [Signature]



- VLF CONDUCTOR
- CLAIM CORNER
- 836980 CLAIM NUMBER

Date	AUG-15-85	MID-CANADA EXPLORATION SERVICES LTD	For	MELROSE RESOURCES	Sheet
Drawn By	O. Hicks			VLF EM 16 20% 1 INCH	

28363
R. B. ...