MID-CANADA EXPLORATION SERVICES LIMITED

REPORT ON A GROUND MAGNETIC AND ELECTROMAGNETIC PROGRAM FOR MELROSE RESOURCES LTD.

CLEAVER I - PROJECT

Timmins, Ontario
April, 1984

Kenneth Guy
Geologist

TABLE OF

MAPS - IN BACK POCKET

1 - VLF - EM PROFILE	1" = 400'
1 - MAGNETIC CONTOURS	1" = 400'
1 - MAGNETIC CONTOURS - DETAIL GRID	1" - 100'

CONCLUSIONS AND RECOMMENDATIONS

The ground geophysical program has successfully located and defined a number of anomalies. Seventeen VLF-EM anomalies were detected which are considered to be worthy of additional follow up; eight are rated high priority, three of which are recommended for diamond drilling.

The gold occurrence appears to occur within mafic volcanic rocks which have a defineable magnetic signature allowing for apparent conductivity within the notable stratigraphic horizon to receive particular attention.

The ground geophysical program should greatly aid during geological mapping and help with stratigraphic correlation of the project area.

The following recommendations are made for the project area:

1) Additional stripping, trenching and prospecting of the gold occurrence to better define the extent and orientation of the structure.

CONCLUSIONS AND RECOMMENDATIONS (Continued)

2) A detailed geological survey should be conducted over the project area, concurrent with intensive prospecting.

3) A limited geochemical survey over the detail grid to determine if the method is effective in detecting the gold occurrence.

4) A minimum six-hole diamond drilling program is recommended - three targets being VLF-EM anomalies I, K and N - three holes to test the gold occurrence.

PROPOSED PROGRAM AND BUDGET

In light of the encouraging results to date on the Cleaver I project area, a two-phase exploration program is proposed. The purpose of the program is twofold:

1) delineate, define and evaluate the gold occurrence on the property;

2) locate and evaluate additional targets deemed favourable for gold potential.

The proposed program and the estimated budget are as follows:

PHASE I

1)	Stripping and trenching of the present gold occurrence	$10,000
2)	Prospecting and geological survey	20,000
3)	Orientation geochemical survey	2,000
4)	Consultation and supervision	5,000
		$37,000
	+ 10% Contingency	3,700
	TOTAL PHASE I	$40,700

PROPOSED PROGRAM AND BUDGET (Continued)

PHASE II

Diamond drilling	6 holes X 500 feet X $25/foot	$75,000
Assays and Supervision		10,000
		$85,000
+ 15% Contingency		13,000
TOTAL PHASE II		$98,000

The total estimated budget for the proposed exploration program is:

PHASE I	$ 51,700
PHASE II	98,000
TOTAL ESTIMATED BUDGET	$149,700

INTRODUCTION

During the months of January through March, 1984 a combined Very Low Frequency Electromagnetic (VLF-EM) and magnetic survey was carried out over properties owned by Melrose Resources Ltd.

The purpose of the VLF-EM survey was to detect on the ground, zones of conductivity which may be produced by conductive minerals and/or zones of shearing or faulting. The magnetic survey was performed to determine if any magnetic correlation exists with apparent conductivity and to aid in stratigraphic correlation.

The grid is centred on a trenched area containing a gold-bearing quartz vein with a pyritiferous, carbonate halo. Gold values are contained in both the quartz vein and the pyritiferous, altered wall rock. Grab samples in excess of 1.0 oz/T Au have been obtained.

LOCATION AND ACCESS

The Cleaver I project area is located in Cleaver township, District of Timiskaming, Larder Lake Mining Division, Province of Ontario. The area lies approximately 25 miles southeast of the city of Timmins.

LOCATION AND ACCESS (Continued)

Access to the property is from either the Langmuir road from South Porcupine or the Matachewan road, west of Matachewan and then via a network of logging roads to the project area within one mile of the gold showing.

PROPERTY

The Cleaver I property consists of 30 contiguous, unpatented mining claims, 30 of which were covered by the combined surveys.

The property consists of the following claims:

L725147 - 162 inc.

L724470

L724474

L750506 - 510 inc.

L749741 - 747 inc.

PREVIOUS WORK

Previous exploration work on the property has been very limited. The only recorded work is a program of limited trenching in the late 1970's. This is at the site of the gold occurrence. This work was poorly done and did not adequately define the attitude of the vein structure, nor cover any strike extension.

Government survey work of the area has also been very limited. D. R. Pyke mapped the western half of the township in 1972 - Geology of the Peterlong Lake Area, OGS Report 171 - 1978.

A government sponsored airborne electromagnetic and magnetic survey - ODM - 1975 - Map P.1014 - covers Cleaver township.

GEOLOGY AND MINERALIZATION

The property is underlain by mafic and intermediate-to-felsic volcanic rocks of Archean Age.

The geology of the showing is massive mafic volcanic rock with interflow chert beds. The mafic volcanic rocks are cut by a quartz stockwork zone consisting of quartz-carbonate veins and veinlets up to 30 cm. in thickness. The host mafic volcanic has been pervasively altered, silicified, carbonatized and pyritized for up to one metre from the vein system. Sulphide content ranges up to local concentrations of 30% pyrite. The gold is concentrated in the quartz-carbonate stockwork and altered host rock with up to 25% pyrite. Grab samples have assayed as high as 1.3 oz/T Au.

Additional reconnaissance of the area has revealed similar alteration with anomalous gold values approximately 1,500 feet to the west. Other rock types noted in the area include a unit of rhyolite tuffs with 2 - 10% disseminated pyrite.

SURVEY EQUIPMENT AND PROCEDURE

A total of 30.63 miles of lines were cut and covered with the geophysical surveys.

The Very Low Frequency - Electromagnetic (VLF-EM) survey was carried out using a Geonics EM16, operating at a frequency of 24.0 kHz utilizing the Cutler, Maine (NAA) transmission station. Readings of both In-Phase and Quadrature were taken every 100 feet, with an accuracy of 1% on both.

The magnetic survey was conducted with a Geometrics G-816 total field magnetometer. Readings were taken every 100 feet. The intersection of the section lines on the base line served as base stations so that diurnal drift could be monitored. This method allows readings to be taken and corrected with an accuracy of one gamma. In addition, a detail grid was surveyed in the vicinity of the trench, L0, 0 + 00. Between L400E and L400W, the section lines are at 100 foot intervals. The detail grid extends from 1,000 N to 1,000 S with readings every 25 feet. Only the magnetic survey was conducted on this grid.

DISCUSSION OF RESULTS

The Very Low Frequency Electromagnetic (VLF-EM) survey detected a number of anomalies, 17 anomalies, A through Q, of which are deemed to be worthy of additional follow-up as they appear to represent bedrock expressions.

The magnetic survey did not delineate any discrete anomalies but was successful in revealing magnetic contrasts attributed to lithologic formations. The stratigraphy of the area as interpreted from the magnetic survey is one of alternating felsic and mafic volcanic sequences. The gold showing lies in the central belt of mafic volcanics near the apparent eastern extent of the sequence.

The magnetic detail grid map indicates that the gold occurrence is within the mafic volcanics on the north edge quite proximal to the contact with the felsic volcanics. The disrupted magnetic pattern in the area indicates some structural discontinuity. The detail map should aid in additional stripping.

Based upon the VLF-EM results and the magnetic interpretation the following conductors are rated high-priority follow up:

DISCUSSION AND RESULTS (Continued)

Anomaly B/C — These two anomalies lie in a band of interpreted mafic volcanics and lie on opposite sides of discrete magnetic high; both appear to represent fair conductivity.

Anomaly E — lies on the interpreted mafic-felsic contact and as such represents a favourable target.

Anomaly I — lies along strike from the gold occurrence and represents the best potential delineated by the geophysical survey. Diamond drilling is recommended.

Anomaly K — shows suggestions of representing the highest apparent conductivity of the anomalies defined. It lies on the contact of the mafic horizon hosting the gold occurrence and a felsic horizon to the north. Diamond drilling is recommended.

DISCUSSION AND RESULTS (Continued)

Anomaly L displays a good apparent conductivity but appears to be covered by conductive overburden. It flanks a magnetic high within the mafic horizon. The conductivity and stratigraphic location represent a high priority follow-up.

Anomaly N represents a shallow, moderate conductive source within the mafic horizon hosting the gold occurrence. Diamond drilling is recommended.

Anomaly P displays good conductivity within the mafic horizon hosting the gold occurrence in the vicinity of possible intercalated felsic volcanic rocks.

STATEMENT FOR ASSESSMENT WORK

I, Kenneth Guy, certify to the following:

A total of 80.63 miles of lines were cut and covered with the geophysical surveys.

The claims covered by the combined surveys are:

L725147 - 162

L724470

L724474

L750506 - 510 inc.

L749741 - 741 TOTAL - 30 claims

These claims are owned by 508610 Ontario Inc. (Optioned to Melrose Resources Ltd.)

Kenneth Guy, Geologist

CERTIFICATE

I, the undersigned, Kenneth Guy, residing at 180 Nadine St., South Porcupine, Ontario, graduated with a Bachelor of Applied Science degree in Earth Science - Geology from the University of Waterloo, Waterloo, Ontario in 1978.

I have been employed in the field of Geology since graduation in 1978.

I am a fellow of the Geological Association of Canada.

I do not hold, nor do I expect to receive any interest of any kind in these claims held by Melrose Resources Ltd. nor in any other mining claims they may have.

Kenneth Guy, Geologist

/ch

Ministry of Natural Resources
Ontario

Lands Mining

Report of Work
(Geophysical, Geological, Geochemical and Expenditu

#271

42A02NW0110 2.7181 CLEAVER

900

claims traversed
rm, attach a list.
culated in the
may be entered
Cr." columns.
below.

Type of Survey(s): GEOPHYSICAL - MAG EM 16	Township or Area: CLEAVER
Claim Holder(s): 508610 ONTARIO INC.	Prospector's Licence No.: T-1242
Address: 189 PRESTON STREET, TIMMINS, ONTARIO P4N 3N4	
Survey Company: MID-CANADA EXPLORATION SERVICES LIMITED	Date of Survey (from & to): 25 10 83 (Day Mo. Yr.) 28 06 84 (Day Mo. Yr.)
Name and Address of Author (of Geo-Technical report): KENNETH GUY, 180 NADINE ST., PORCUPINE, ONTARIO	Total Miles of line Cut: 30.63

Credits Requested per Each Claim in Columns at right

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

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

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
L	725147	
	725148	
	725149	
	725150	
	725151	
	725152	
	725153	
	725154	
	725155	
	725156	
	725157	
	725158	
	725159	
	725160	
	725161	
	725162	
	724470	
	724474	
	750506	
	750507	
	750508	
	750509	
	750510	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
L	749741	
	749742	
	749743	
	749744	
	749745	
	749746	
	749747	

RECEIVED
JUL 26 1984
MINING LANDS SECTION

LARDER LAKE MINING DIV.
RECEIVED
JUL 20 1984
AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

Total number of mining claims covered by this report of work: 30

Expenditures (excludes power stripping)

Type of Work Performed:

Performed on Claim(s):

Calculation of Expenditure Days Credits

Total Expenditures: $ ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

For Office Use Only		
Total Days Cr. Recorded: 1500	Date Recorded: JUL 20 1984	Mining Recorder:
	Date Approved as Recorded	Branch Director

Date: July 18/84

Recorded Holder or Agent (Signature): Denis Laforest

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: Denis Laforest, 189 Preston Street, Timmins, Ontario P4N 3N4

Date Certified: July 18/84

Certified by (Signature): Denis Laforest

1362 (81/9)

Mining Lands Section

File No 2.7181

Control Sheet

TYPE OF SURVEY

✓ GEOPHYSICAL

_____ GEOLOGICAL

_____ GEOCHEMICAL

_____ EXPENDITURE

MINING LANDS COMMENTS:

_____

_____

_____

_____

_____

_____

_____

_____

_____

lgd · L.D.

J. Hurst.

_____

Signature of Assessor

_____

Date

1984 11 02

Your File: 271
Our File: 237181

Mining Recorder
Ministry of Natural Resources
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

RE: Notice of Intent dated October 16, 1984.
Geophysical (Electromagnetic & Magnetometer)
Survey on Mining Claims L 725147 et al in the
Township of Cleaver.

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,

S.E. Yundt
Director
Land Management Branch

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

S. Hurst:sc

cc: 508610 Ontario Inc
189 Preston Street
Timmins, Ontario
P4N 3N4

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

cc: Resident Geologist
Kirkland Lake, Ontario

Ministry of Natural Resources
Ontario

Technical Assessment Work Credits

File: 2.7181

Date: 1984 10 16

Mining Recorder's Report of Work No.: 271

Recorded Holder: 508610 ONTARIO INC

Township or Area: CLEAVER TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	L 725147 to 158 inclusive 725160 to 162 inclusive 724470-74 750507 to 510 inclusive 749741 to 747 inclusive
Electromagnetic _____ 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 ☐ 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

15 DAYS CREDIT
L 725159

10 DAYS CREDIT
L 750506

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:

Ministry of Natural Resources
Ontario

Technical Assessment Work Credits

File 2.7181

Date 1984 10 16

Mining Recorder's Report of Work No. 271

Recorded Holder
508610 ONTARIO INC

Township or Area
CLEAVER TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	L 725147 to 156 inclusive 725158-61-62 724470-74 750507-08 749741 to 746 inclusive
Electromagnetic 40 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.	

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

30 DAYS CREDIT

L 725157-59
750506
749747

20 DAYS CREDIT

L 725160
750509-10

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.

Ministry of Natural Resources

Oct 31/84

1984 10 16

Your File: 271
Our File: 2.7181

Mining Recorder
Ministry of Natural Resources
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

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. R.J. Pichette at 416/965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3

RJP. S. Hurst:mc

Encls.

cc: 508610 Ontario Inc
189 Preston Street
Timmins, Ontario
P4N 3N4

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

Ministry of Natural Resources

Ontario

Notice of Intent

for Technical Reports

1984 10 16

2.7181/271

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 Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

1984 09 24

Your File: 271
Our File: 2.7181

Mining Recorder
Ministry of Natural Resources
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

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 L 725147 et al in the Township of Cleaver.

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

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: 508610 Ontario Inc
189 Preston Street
Timmins, Ontario
P4N 3N4
Attention: Kenneth Guy

cc:

Ontario

Ministry of Natural Resources

File _____

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) Geophysical

Township or Area Cleaver

Claim Holder(s) 508610 Ontario Inc.

Survey Company Mid-Canada Exploration Services Limited

Author of Report Kenneth Guy

Address of Author 180 Nadine St., Porcupine, Ontario

Covering Dates of Survey Oct. 25/83 - June 28, 1984
(linecutting to office)

Total Miles of Line Cut 30.63

SPECIAL PROVISIONS CREDITS REQUESTED

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

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
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: Sept. 14/84 SIGNATURE: _____
Author of Report or Agent

Res. Geol. _____ Qualifications 25778

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
L725147	L750509
L725148	L750510
L725149	L749741
L725150	L749742
L725151	L749743
L725152	L749744
L725153	L749745
L725154	L749746
L725155	L749747
L725156	
L725157	
L725158	
L725159	
L725160	
L725161	
L725162	
L724470	
L724474	
L750506	
L750507	
L750508	

If space insufficient, attach list

TOTAL CLAIMS 30

OFFICE USE ONLY

837 (5/79)

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 1590 Number of Readings Mag 1590 VLF 1475

Station interval 100 feet Line spacing 400 feet

Profile scale 1" = 20%

Contour interval 0.500 1000 - 1500 - 2000 - 2500 - 3000

MAGNETIC

Instrument Geometric G - 816

Accuracy – Scale constant 1 gamma

Diurnal correction method Line to Base Line

Base Station check-in interval (hours) 1 hour

Base Station location and value BL 0/00 - 60,406

ELECTROMAGNETIC

Instrument Geonic EM 16

Coil configuration Horizontal

Coil separation

Accuracy ± 1%

Method: ☒ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency Cutler, Maine 17.8 kHz
(specify V.L.F. station)

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 _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

MID-CANADA EXPLORATION
SERVICES LIMITED

(705) 264-7043

189 Preston St., TIMMINS, ONTARIO P4N 3N4

September 14, 1984

Mr. F. W. Matthews
Ontario Ministry of Natural Resources
W-1617, Whitney Block
Queen's Park
Toronto, Ontario
M7A 1W3

Re: Mining Claims L725147 et al - Cleaver Township

Dear Sir:

Enclosed are duplicate copies of a report on Electromagnetic and Magnetic Surveys carried out over a group of 30 mining claims located in Cleaver Township.

Yours truly,

Denis Laforest
Exploration Manager

/ch

Enclosures

60W 56W 52W 48W 44W 40W 36W 32W 28W 24W 20W 16W 12W 8W 4W 0 4E 8E 12E 16E 20E 24E 28E

30N
20N
10N
0 Base line
10S
20S
25S Tie line
30S

725159 725158 725157 725156 725147 725155 725148 725154 725149 725153 725150 725152 725151 725162 725161 725160

749741 749742 749743 749744 749745 749746 749747

750506 750507 750508 750509 750510

724470 724474

A B C D E F G H I J K L M N O P Q

15N Tie line

NIGHTHAWK RIVER

N

LEGEND

GEOLOGICAL

VLF SURVEY

Conductor strike

Primary field (NAA)

In phase

Quad phase

MAGNETIC SURVEY

TOPOGRAPHIC

Claim post located

Claim post assumed position

Witness post

Property boundary

Power line

Bush road

Swamp

Stream

Lakeshore

Outcrop

Drill target proposed

Railway

INDEX MAP

Timmins
Matheson
Kirkland Lake
MAP AREA
Matachewan
CLEAVER TWP.
Lat. 48° Lon. 81°

MID-CANADA
EXPLORATION SERVICES LIMITED

for

MELROSE RESOURCES

VLF-EM SURVEY

Operator(s):	Project: CLEAVER I
Interpreted by:	CLEAVER TWP.
Drawn by:	District of Timiskaming
Approved by:	Larder Lake Mining Division
Revised by:	Ref. Claim Map M. 269
SCALE 1"=400'	Drawing No. 1

27181

60W 56W 52W 48W 44W 40W 36W 32W 28W 24W 20W 16W 12W 8W 4W 0 4E 8E 12E 16E 20E 24E 28E

30N
20N
10N
0 Base line
10S
20S
25S Tie line
30S

725147 725156 725157 725158 725159 749743 749742 749741 750506 750507 750508 724470 724474 725155 749744 725148 NIGHTHAWK RIVER 725154 749745 749746 749747 750509 750510 725149 725153 725160 725161 725150 725162 725152 725151

N

LEGEND

GEOLOGICAL

ELECTROMAGNETIC SURVEY

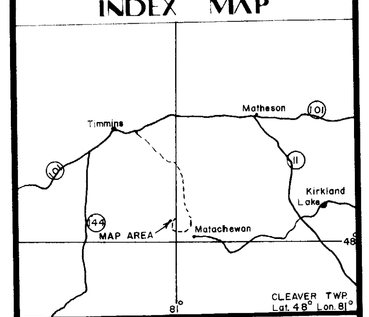
MAGNETIC SURVEY

0,500, 1000, 1500, 2000, 2500, 3000

TOPOGRAPHIC

- Claim post located
- Claim post assumed position
- WP Witness post
- Property boundary
- Cliff line
- Base line
- Swamp
- Stream
- Shoreline
- Outcrop
- Drill target proposed
- Roadway

INDEX MAP

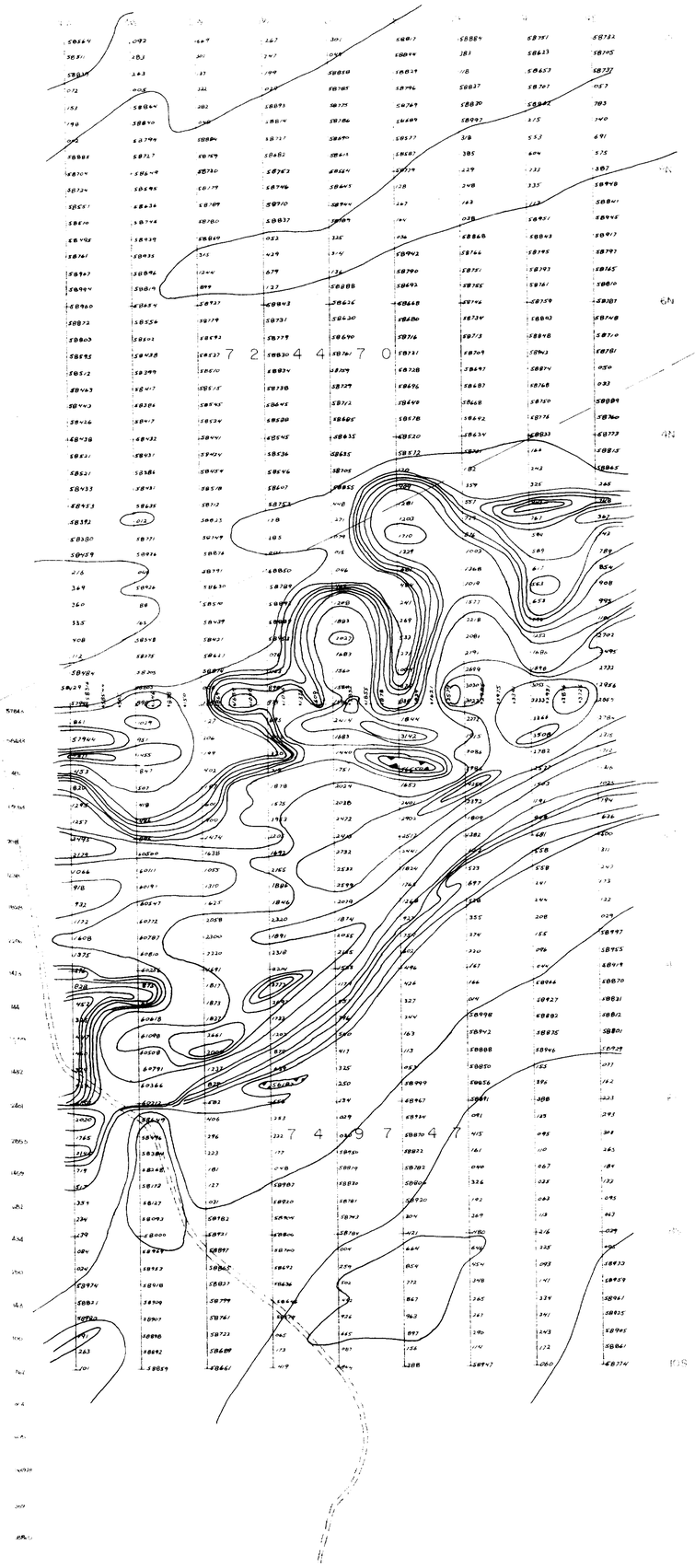


MID-CANADA
EXPLORATION SERVICES LIMITED
for
MELROSE RESOURCES

MAGNETIC SURVEY

Operator(s)	Project CLEAVER I
Interpreted by	CLEAVER TWP.
Drawn by	District of Timiskaming
Approved by	Larder Lake Mining Division
Revised by	Ref. Claim Map M.269
SCALE 1"=400'	Drawing No. 1

2718!



SCALE: 1"=100'

MID-CANADA

MELROSE RESOURCES

MAGNETIC SURVEY

CLEAVER I

DETAILED

2

2.7181

42A02NW0110 2.7181 CLEAVER