

2-2903

NTS: 42 A/1



42A01SE0036 2.2903 TECK

010

Assessment Report

Proton Magnetometer Survey

Group I Dymont-Kidston Claims

Teck Township, Larder Lake Mining Division

Jomi Minerals & Expediting Ltd.

Tarzwell, Ontario

Tarzwell, Ontario

L.M. Dymont

January 20, 1979

TECK TP. 1" = 40 CHAINS (1/4 MI)
1977

Bernhardt Twp.

TECK TWP.
Property Location
Map.

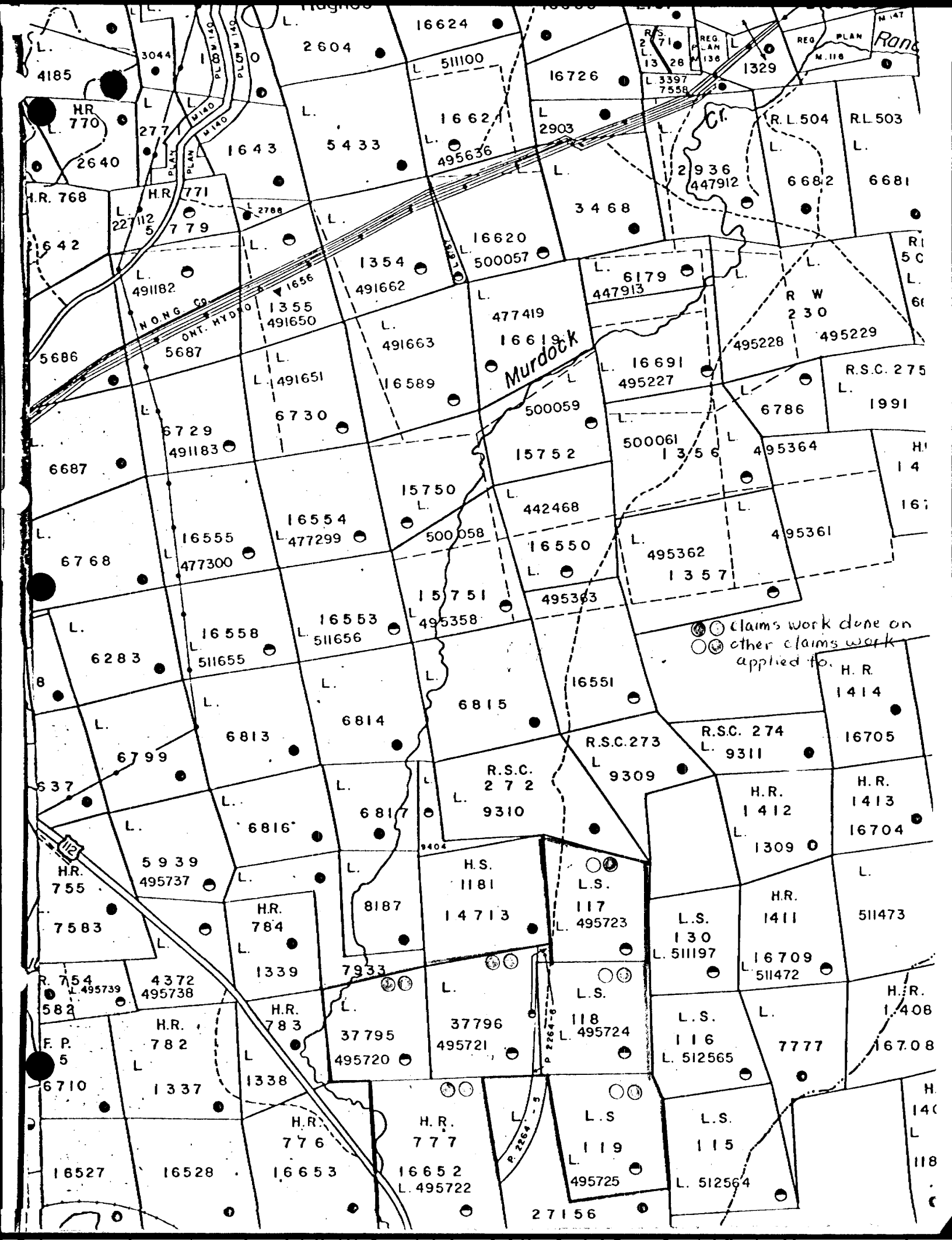
Grenfel Twp.

Lebel Twp.



Otto Twp.

Group #1



● claims work done on
 ○ other claims work applied to.

HR. 770

H.R. 768

H.R. 771

Murdock

Rans

R.L. 504 RL 503

REG. PLAN 136

WONG CO. ONT. HYDRO

R. W. 230

R.S.C. 275

L. 1991

H. R. 1414

R.S.C. 274 L. 9311

16705

H.R. 1412

H.R. 1413

L. 1309

16704

H.R. 755

H.S. 1181

L.S. 117

H.R. 1411

511473

7583

H.R. 784

14713

L. 495723

L.S. 130

H.R. 16709

L. 511472

R. 754 L. 495739

4372 495738

7933

L. 37796

L.S. 118

L.S. 116

L. 512565

F.P. 5

H.R. 782

37795

495720

L. 495724

L. 512565

7777

H.R. 1408

6710

L. 1337

L. 1338

H.R. 776

H.R. 777

L.S. 119

L.S. 115

L. 512564

16527

16528

16653

16652 L. 495722

L. 495725

27156

H. 140

L. 118

SUMMARY

In November, 1978, a Proton Magnetometer survey was carried out over a group of three claims held in Teck Township, Larder Lake Mining Division.

Introduction

The claim group was staked in December, 1977. During the summer of 1978, general prospecting and sampling was done. Reconnaissance lines were run with a VLF-EM. A program of linecutting was carried out and a Proton Magnetometer survey done and compiled.

LOCATION AND ACCESS

The claim group is located near the southeast corner of Teck Township (NTS 42 A/1) approximately 2 miles south of Kirkland Lake on Highway 112. Access to the claim group is excellent as the southwestern corner of the group is approximately at the junction of Highway 112 and Murdock Creek.

PREVIOUS WORK

A search of the Kirkland Lake District Geologist's assessment files failed to locate any work filed on these claims. The claims had been under patent since the early 1930's, had come open, and were recently staked by the present holder.

SURVEY METHOD

Prior to line cutting, the technician (prospector) did some reconnaissance work with a VLF-EM in the area of a North-South green carbonate-appearing formation. Results indicated a conductive zone parallel to the carbonate-appearing formation at approximately 200' east of the latter. In the north portion of the claim group a tuffaceous iron formation mapped by Thomson (Map no. 1945-1) proved upon investigation by prospecting to be folded to a greater extent than shown on the Teck Twp. geology map. To take advantage of these factors a grid was cut with lines 400' apart and 100' chained stations, the lines running East-West.

A Barringer GM-122 Proton Magnetometer was used for the survey.

A base station was established at L4N at 0100 and checked hourly for diurnal drift variations so that necessary corrections could be made. There were a total of 163 readings taken.

SURVEY RESULTS

The contoured field data are plotted on the map accompanying this report.

The Magnetometer survey succeeded in defining two zones of above background anomalous readings, one zone of low magnetics, and also better defining the known iron formation (Thomson 1945-1). The zone east of 10100 is covered with overburden and is of interest because it is indicative of situations similar in the Kitkland-Larder

SURVEY RESULTS cont'd

area of iron formation being located in close proximity to carbonate zones.

The 2nd zone is drift covered, its center being observed from 2E to 6W on line 8N.

The zone of low magnetics situated on L20N 7E was found during general prospecting to have been the location of syenite float.

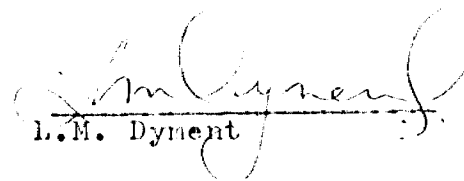
The last zone comprising the already known tuffaceous iron formation appeared to be folded back and forth between L20N and L24N.

CONCLUSIONS AND RECOMMENDATIONS

Although some VLF-EM Reconnaissance work was done prior to line cutting, a complete EM survey should now be done over the grid to aid future mapping.

The Magnetometer survey was of great assistance to the technician (prospector) in clarifying the approach to further investigation of the potential of the property. Stripping and detailed mapping should be the next step with this property.

Tarzwell, Ontario
January 20, 1979


L.M. Dymant

NTS: 42 A/1



42A01SE0036 2.2903 TECK

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Assessment Report

Proton Magnetometer Survey

Group II Dymont-Kidston Claims

Teck Township, Larder Lake Mining Division

Jomi Minerals & Expediting Ltd.

Tarzwell, Ontario

Tarzwell, Ontario

January 20, 1979

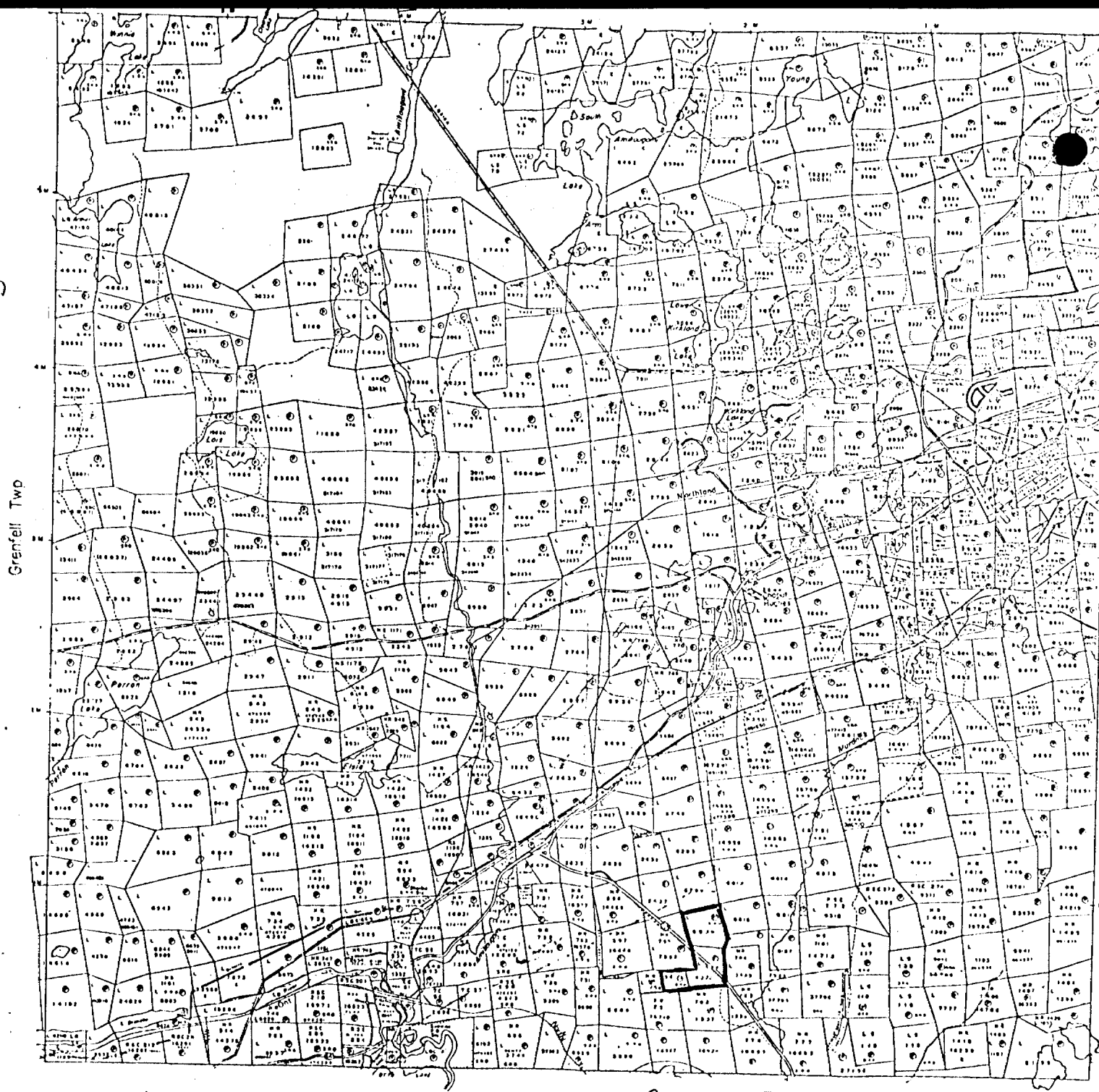
L. M. Dymont

RECEIVED

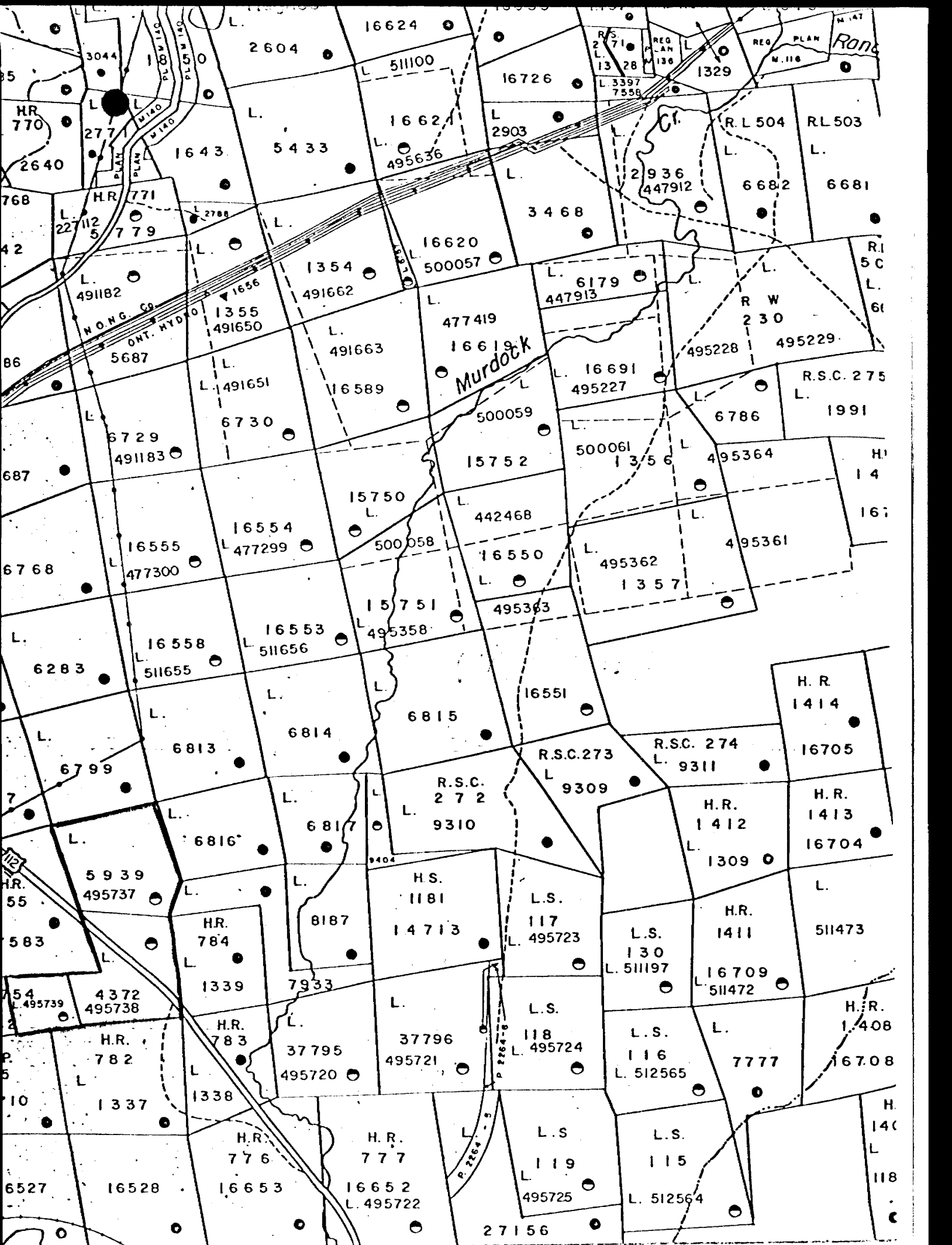
MINING DIVISION

Teck Twp.

Property Location
Map



Otto Twp. Coroup II



SUMMARY

During the latter part of November and the early part of December (1978), a Proton Magnetometer survey and a VLF-EM survey were carried out on claims 495737-39 inclusive. The lines were carefully compassed in and flagged.

INTRODUCTION

The claim group was staked in December, 1977. During the summer of 1978, general prospecting and sampling were done. A green carbonate-appearing formation was found with tuffaceous iron formation appearing to be parallel to it.

LOCATION AND ACCESS

The claim group is located near the southeast corner of Teck Twp. (NTS 42 A/1), approximately 2 miles due south of Kirkland Lake. Access to the claim group is excellent as Hwy. 112 passes through the group.

PREVIOUS WORK

A Search of the Kirkland Lake District Geologist's assessment files failed to locate any work filed on these claims. The claims had been under patent since the early 1930's, had come open, and were staked by the present holder.

SURVEY METHOD

A baseline was cut from the #2 post of claim 495738 west to the #3 post of undersized claim 495739. The baseline was chained and picketed with survey lines turned off at intervals of 400 feet.

The survey lines were then flagged and compassed in with 100' stations prior to running the survey.

Survey lines running North-South were chosen to cross the tuffaceous iron formation noted in prospecting prior to the geophysical survey.

A Barringer GM-122 Proton Magnetometer was the instrument used for this survey.

A base station was established at L4W, station 0200, and was checked hourly for diurnal drift variations so that corrections could be made if necessary. There were a total of 103 readings taken at 100' intervals.

SURVEY RESULTS

The contoured field data are plotted on the map accompanying this report.

The magnetometer survey succeeded in defining a folded-in-appearance anomalous zone crossing the property at approximately 4N on all lines and having an average width of 400'. This zone is above the green carbonate-appearing outcrop found in prospecting prior to the survey.

SURVEY RESULTS cont'd

This folded zone is of importance to the prospector because it is indicative of situations similar in the Kirkland-Larder area, of sulphide and oxide facies iron formation being located in close proximity to carbonate zones.

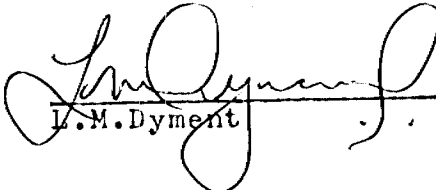
CONCLUSIONS AND RECOMMENDATIONS

The magnetometer survey was of great assistance to the technician (prospector) in clarifying the approach to further investigation of the potential of the property.

The lines should be cut on the property prior to Spring break-up to facilitate access across flooded beaver areas.

Stripping of outcrops in interesting areas should be done prior to mapping of the entire claim group.

Tarzwell, Ontario
January 20, 1979


L.M. Dyment

NTS: 42 A/1



42A01SE0036 2.2903 TECK

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Assessment Report

VLF-EM Survey

Group II Dymont Kidston Claims

Teck Township, Larder Lake Mining Division

Jomi Minerals & Expediting Ltd.

Tarzwell, Ontario

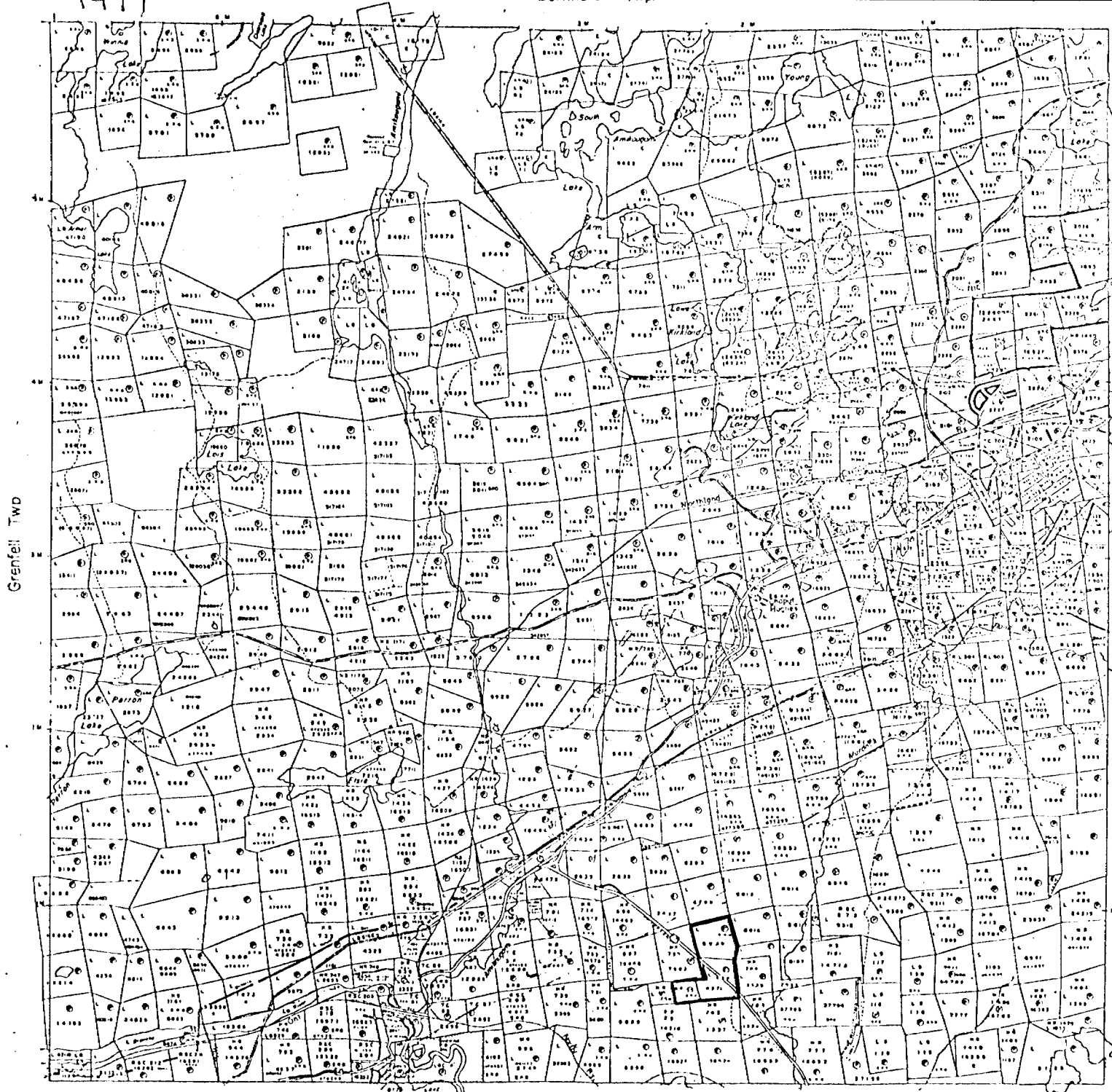
Tarzwell, Ontario

January 20, 1979

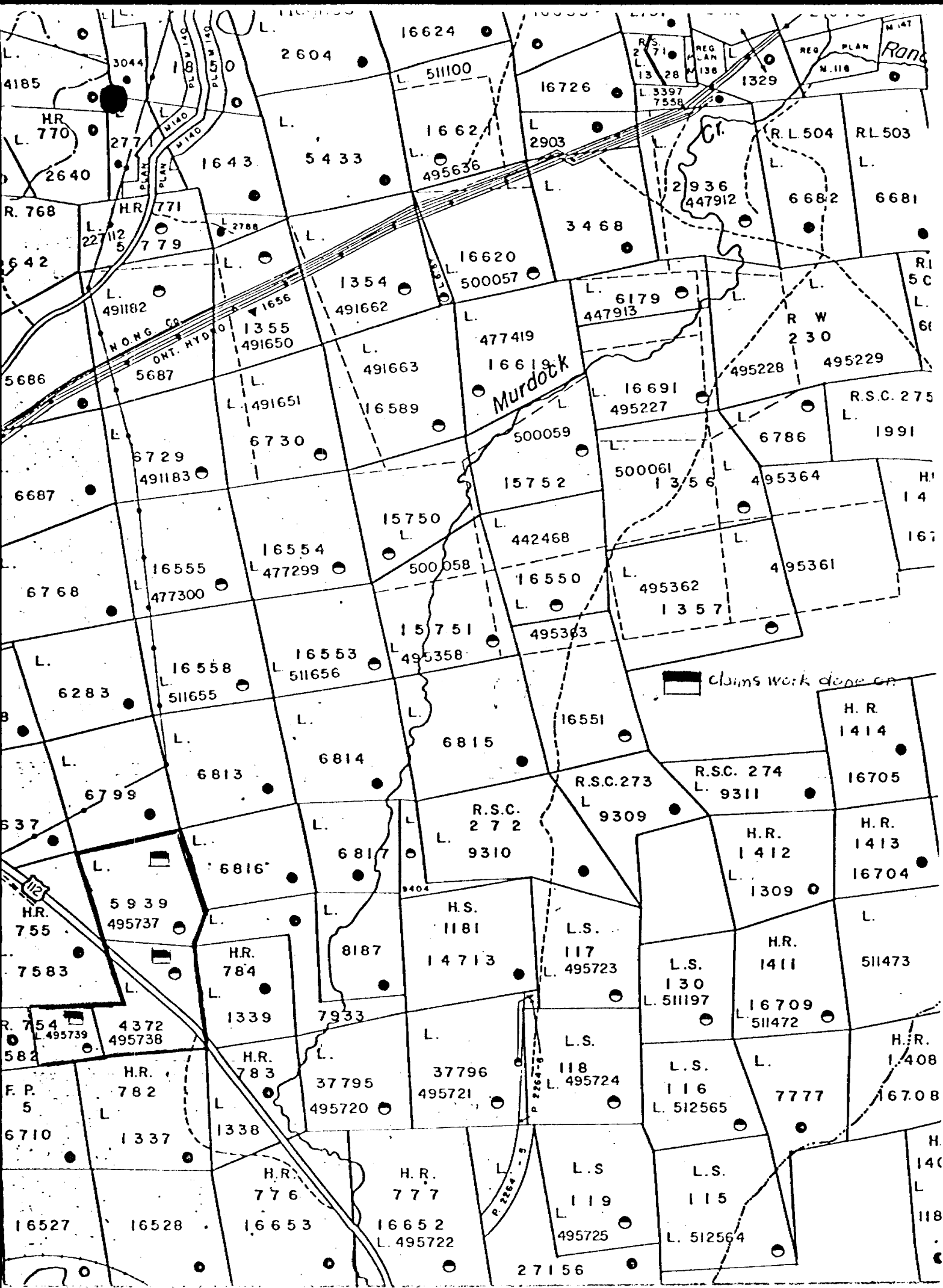
L. M. Dymont

RECEIVED
1979
MINE AND GEOSCIENCE

GROUP II
Location map
Teck Twp.



Otto Twp.



SUMMARY

During the latter part of November and the early part of December (1978), a Proton Magnetometer and a VLF-EM survey were carried out on claims 495737-39 inclusive. The lines were carefully compassed in and flagged.

INTRODUCTION

The claim group was staked in December, 1977. During the summer of 1978, general prospecting and sampling were done. A green carbonate-appearing formation was found with tuffaceous iron formation appearing to be parallel to it.

LOCATION AND ACCESS

The claim group is located near the southeast corner of Teck Twp. (N1S 42 A/1), approximately 2 miles due south of Kirkland Lake. Access to the claim group is excellent as Hwy. 112 passes through the group.

PREVIOUS WORK

A search of the Kirkland Lake District Geologist's assessment files failed to locate any work filed on these claims. The claims had been under patent since the early 1930's, had come open, and were staked by the present holder.

SURVEY METHOD

A baseline was cut from the #2 post of claim 495738 west to the #3 post of undersized claim 495739. The baseline was chained and picketed with survey lines turned off at intervals of 400 feet.

The survey lines were then flagged and compassed in with 100' stations prior to running the survey.

Survey lines running North-South were chosen to cross the tuffaceous iron formation noted in prospecting prior to the geophysical survey.

A VLF Ronka EM-16 was the instrument used to test the conductivity of the formation found earlier by magnetometer. Cutler, Maine was the station used and notes were made of the topography, location of hydro lines and location of roads.

SURVEY RESULTS

The profiled field data are plotted on the map accompanying this report.

Two areas of strong conductivity were shown and one of weak conductivity. The weak area is designated (C) and is located at 24N on 18W.

Area (B) is of good conductivity and located on Lines 0, 4W and 8W as shown on the accompanying map. This has a rather weak but definite magnetic correlation.

The third area designated (A) is well correlated with the with the magnetic anomaly as shown on the Magnetometer map of this property. Strong cross-overs are shown on Lines 12, 16,

SURVEY RESULTS cont'd

and 19W. Unfortunately due to the close proximity of hydro lines the critical readings on lines 0, 4, and 8W were noted but not plotted as their reliability is questionable.

CONCLUSIONS AND RECOMMENDATIONS

Strong conductivity was observed from the results of the VLF-EM survey. It is the writer's opinion that more conventional EM equipment should be used on this property to aid in the determination and nature of the conductive magnetic zones.

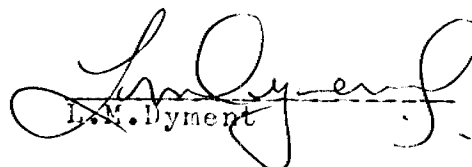
More conventional equipment would also give a truer picture of conductivity of the magnetic zone in the vicinity of the hydro line.

The VLF survey combined with the Magnetometer results are of great assistance to the technician (prospector) in clarifying the approach to further investigation of the potential of this property.

The lines should be cut on the property prior to Spring break-up to facilitate access across flooded beaver areas.

Stripping of outcrop in interesting areas should be done prior to mapping the entire claim group.

Tarzwell, Ontario
January 20, 1979


L.M. Dymont



42A015E0036 2.2903 TECK

File _____

900

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) ELECTROMAGNETIC AND MAGNETOMETER
 Township or Area Teck
 Claim Holder(s) L.M.Dyment
 Survey Company Jomi Minerals & Expediting Ltd.
 Author of Report L.M.Dyment
 Address of Author RR#1 Tarzwell, Ont, POK 1V0
 Covering Dates of Survey November 17-December 8, 1978
 (linecutting to office)
 Total Miles of Line Cut _____

MINING CLAIMS TRAVERSED
List numerically

L 495737
 (prefix) (number)
 L 495738
 L 495739

<u>SPECIAL PROVISIONS</u> <u>CREDITS REQUESTED</u>	DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	Geophysical _____ Electromagnetic <u>20</u>
ENTER 20 days for each additional survey using same grid.	Magnetometer <u>20</u> Radiometric _____ Other _____ Geological _____ Geochemical _____

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

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

DATE: January 20, 1979 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications _____

<u>Previous Surveys</u>			
File No.	Type	Date	Claim Holder

TOTAL CLAIMS _____

If space insufficient, attach list

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 103 (note small claim) Number of Readings 103
Station interval 100' Line spacing 400'
Profile scale 1"-20
Contour interval 100 gammas

MAGNETIC

Instrument Barringer GM-122
Accuracy - Scale constant ± 1 gamma
Diurnal correction method averaging drift over all readings
Base Station check-in interval (hours) 1 hour
Base Station location and value L4W at 0±00;59978

ELECTROMAGNETIC

Instrument Ronka EM16
Coil configuration Vertical
Coil separation Infinite
Accuracy
Method: [X] Fixed transmitter [] Shoot back [] In line [] Parallel line
Frequency Cutler, Maine (specify V.L.F. station)
Parameters measured Tilt angles; Field strength

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



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) MAGNETOMETER
 Township or Area Teck
 Claim Holder(s) L.M. Dymant
 Survey Company Jomi Minerals & Expediting Ltd.
 Author of Report L.M. Dymant
 Address of Author RR#1 Tarzwell, Ont, POK 1V0
 Covering Dates of Survey August 12-November 22, 1978
 (linecutting to office)
 Total Miles of Line Cut 3.5

MINING CLAIMS TRAVERSED
List numerically

L 495720
(prefix) (number)
 L 495721
 L 495722

SPECIAL PROVISIONS
CREDITS REQUESTED

DAYS
per claim

Geophysical
 --Electromagnetic _____
 --Magnetometer (40)
 --Radiometric _____
 --Other _____
 Geological _____
 Geochemical _____

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

ENTER 20 days for each
additional survey using
same grid.

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

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

DATE: Jan 20, 1979 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications [Signature]

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS _____

If space insufficient, attach list

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 163 Number of Readings 163
Station interval 100' Line spacing 400'
Profile scale
Contour interval 100 gammas

MAGNETIC

Instrument GM-122 Barringer
Accuracy - Scale constant 1 gamma
Diurnal correction method Averaging drift all readings
Base Station check-in interval (hours) 1 hour
Base Station location and value LN at 0200; 58855

ELECTROMAGNETIC

Instrument
Coil configuration
Coil separation
Accuracy
Method: [] Fixed transmitter [] Shoot back [] In line [] Parallel line
Frequency (specify V.L.F. station)
Parameters measured

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



**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.

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 Township or Area Teck
 Claim Holder(s) L.M.Dyment
 Survey Company Jomi Minerals & Expediting Ltd.
 Author of Report L.M.Dyment
 Address of Author RR#1 Tarzwell, Ont, POK 1V0
 Covering Dates of Survey November 17-December 8, 1978
(linecutting to office)
 Total Miles of Line Cut _____

SPECIAL PROVISIONS CREDITS REQUESTED	DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	Geophysical -Electromagnetic <u>20</u> -Magnetometer <u>20</u> -Radiometric _____ -Other _____
ENTER 20 days for each additional survey using same grid.	Geological _____ Geochemical _____

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
 Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: January 20, 1979 SIGNATURE: *L.M.Dymment*
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED	
List numerically	
L	495737
(prefix) L	(number) 495738
L	495739
TOTAL CLAIMS _____	

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 103 (note small claim) Number of Readings 103
Station interval 100' Line spacing 400'
Profile scale 1"-20
Contour interval 100 gammas

MAGNETIC

Instrument Barringer GM-122
Accuracy - Scale constant ± 1 gamma
Diurnal correction method averaging drift over all readings
Base Station check-in interval (hours) 1 hour
Base Station location and value L4W at 0±00;59978

ELECTROMAGNETIC

Instrument Ronka EM16
Coil configuration Vertical
Coil separation Infinite
Accuracy
Method: [X] Fixed transmitter [] Shoot back [] In line [] Parallel line
Frequency Cutler, Maine (specify V.L.F. station)
Parameters measured Tilt angles; Field strength

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

DISPOSITION OF CROWN LANDS

- PATENT, SURFACE AND MINING RIGHTS
- " SURFACE RIGHTS ONLY
- " MINING RIGHTS ONLY
- LEASE, SURFACE AND MINING RIGHTS
- " SURFACE RIGHTS ONLY
- " MINING RIGHTS ONLY
- LICENCE OF OCCUPATION
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- CANCELLED

NOTES

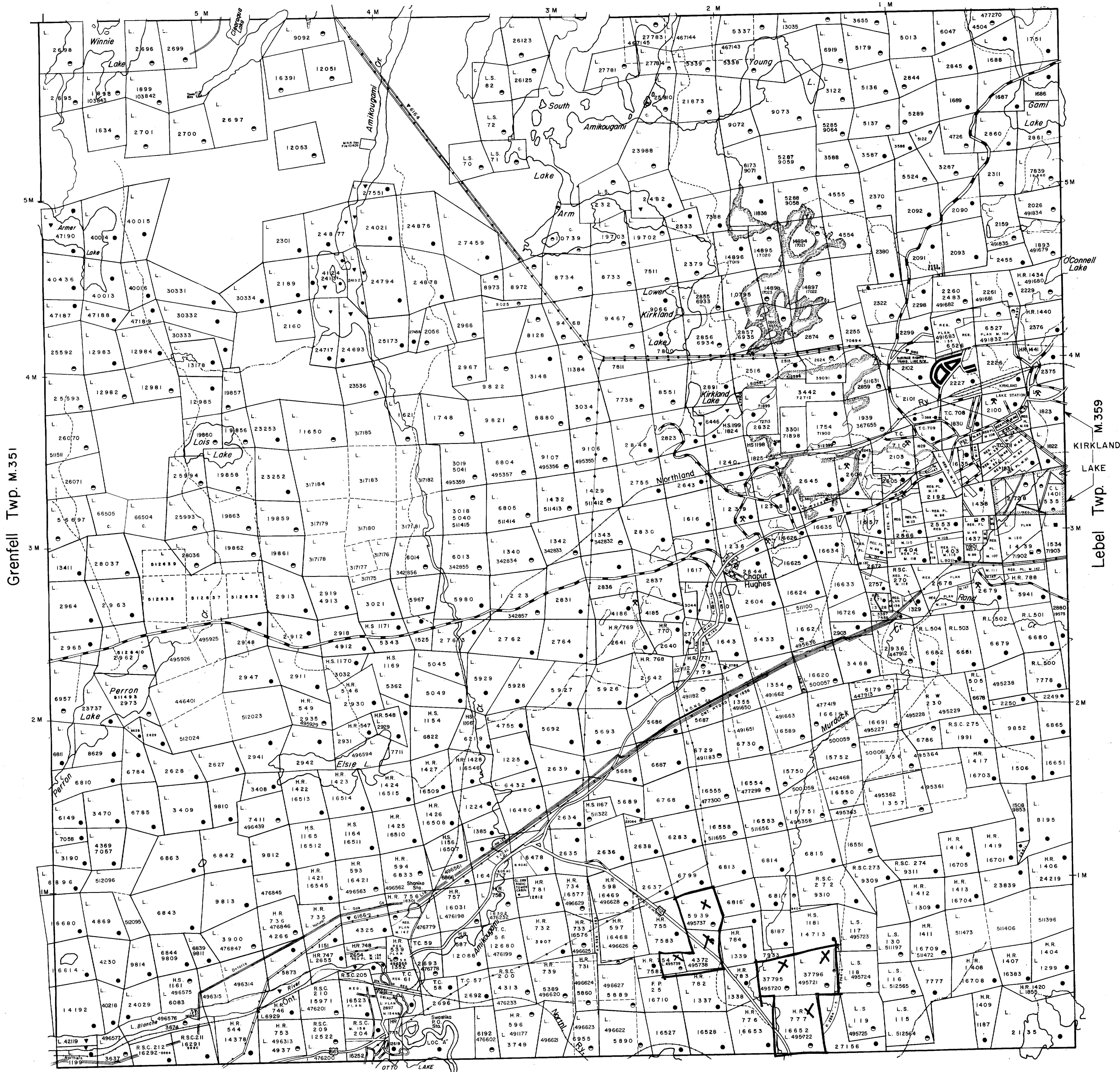
400' surface rights reservation along the shores of all lakes and rivers.

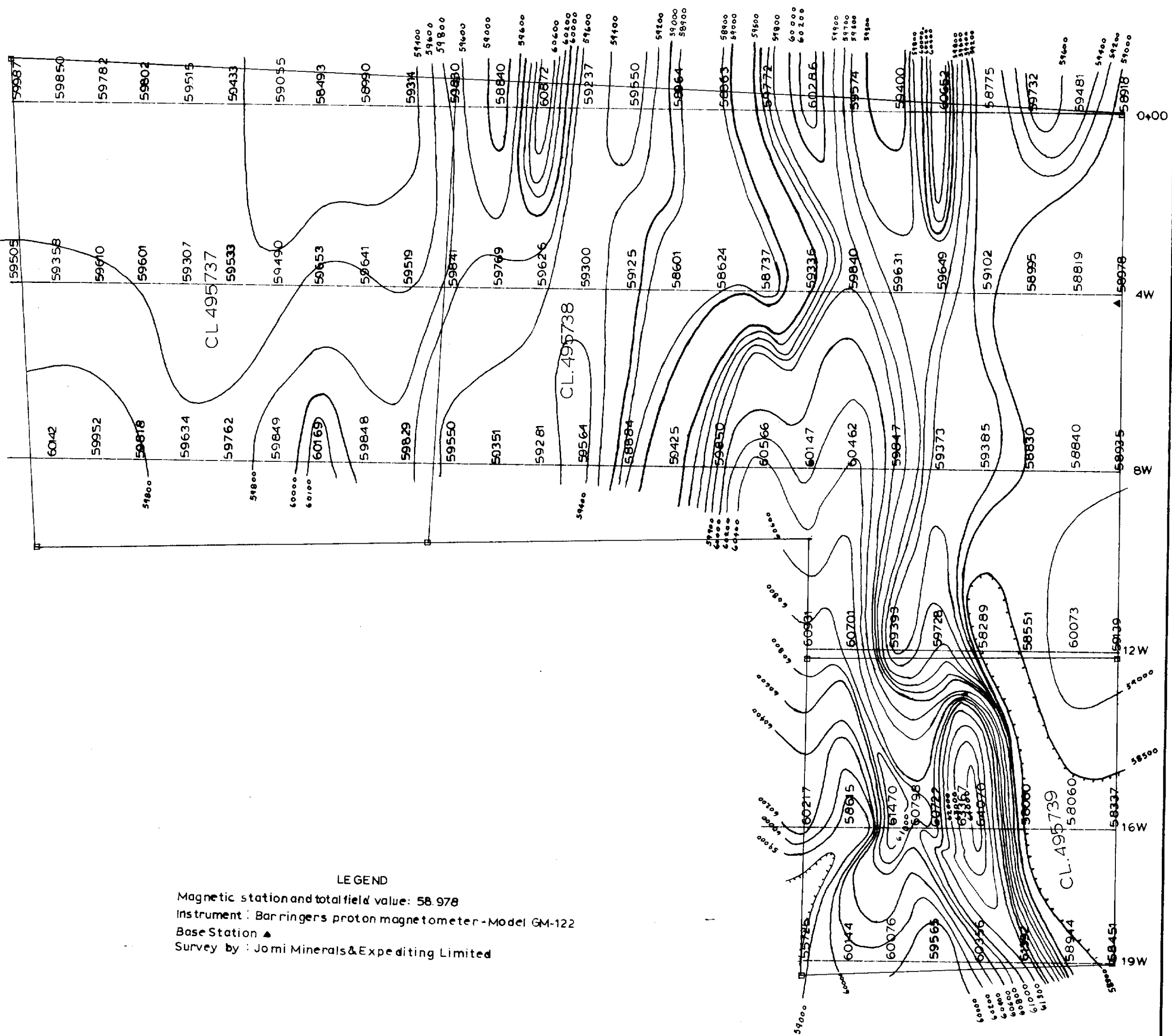
Areas shown thus for slime disposal.

Mining claims L.2728 & 1535 in the Town of Kirkland Lake are withdrawn from staking under Sec.39(b) of the Mining Act (R.S.O.1950). File 6739B.

Mining claim L.5779 - Mining Rights subject to Sec. 36 of the Mining Act. (R.S.O. 1950).

DATE OF ISSUE
FEB 19 1979
SURVEYS AND MAPPING
BRANCH





LEGEND

Magnetic station and total field value: 58.978
 Instrument : Barringer's proton magnetometer - Model GM-122
 Base Station ▲
 Survey by : Jomi Minerals & Expediting Limited

MAGNETIC SURVEY
DYMENT-KIDSTON CLAIMS

Teck twp.
 Larder Lake Mining Division
 DISTRICT OF TIMISKAMING

210

SCALE: 1 inch = 200 ft.

22903



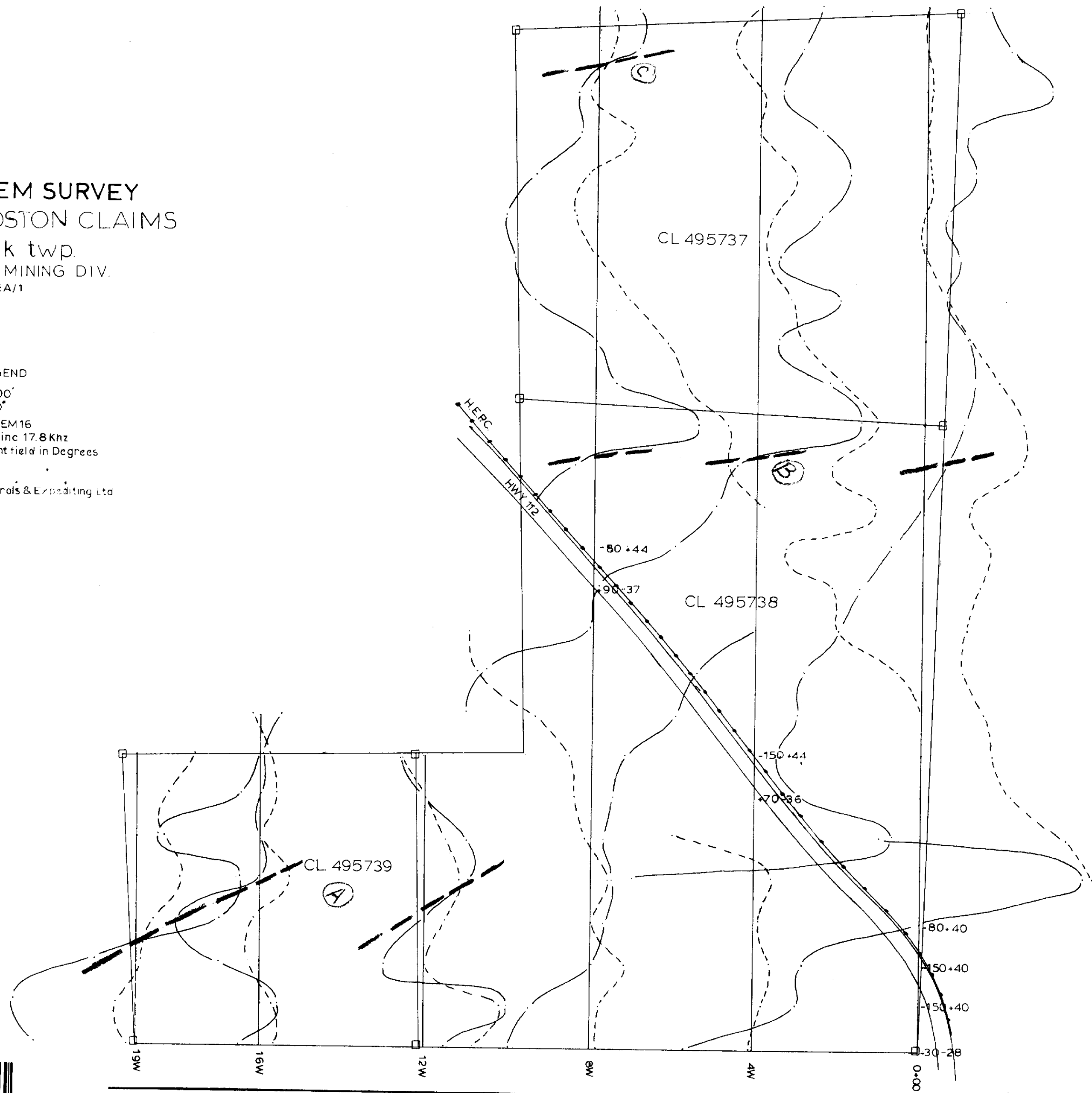
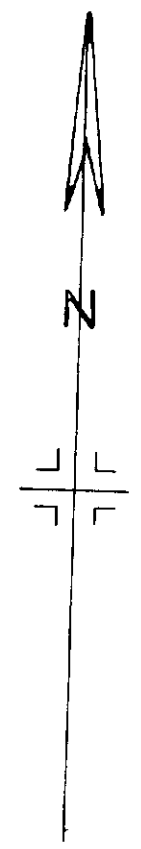
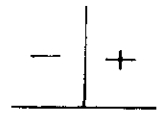
42A015E0036 2.2903 TECK

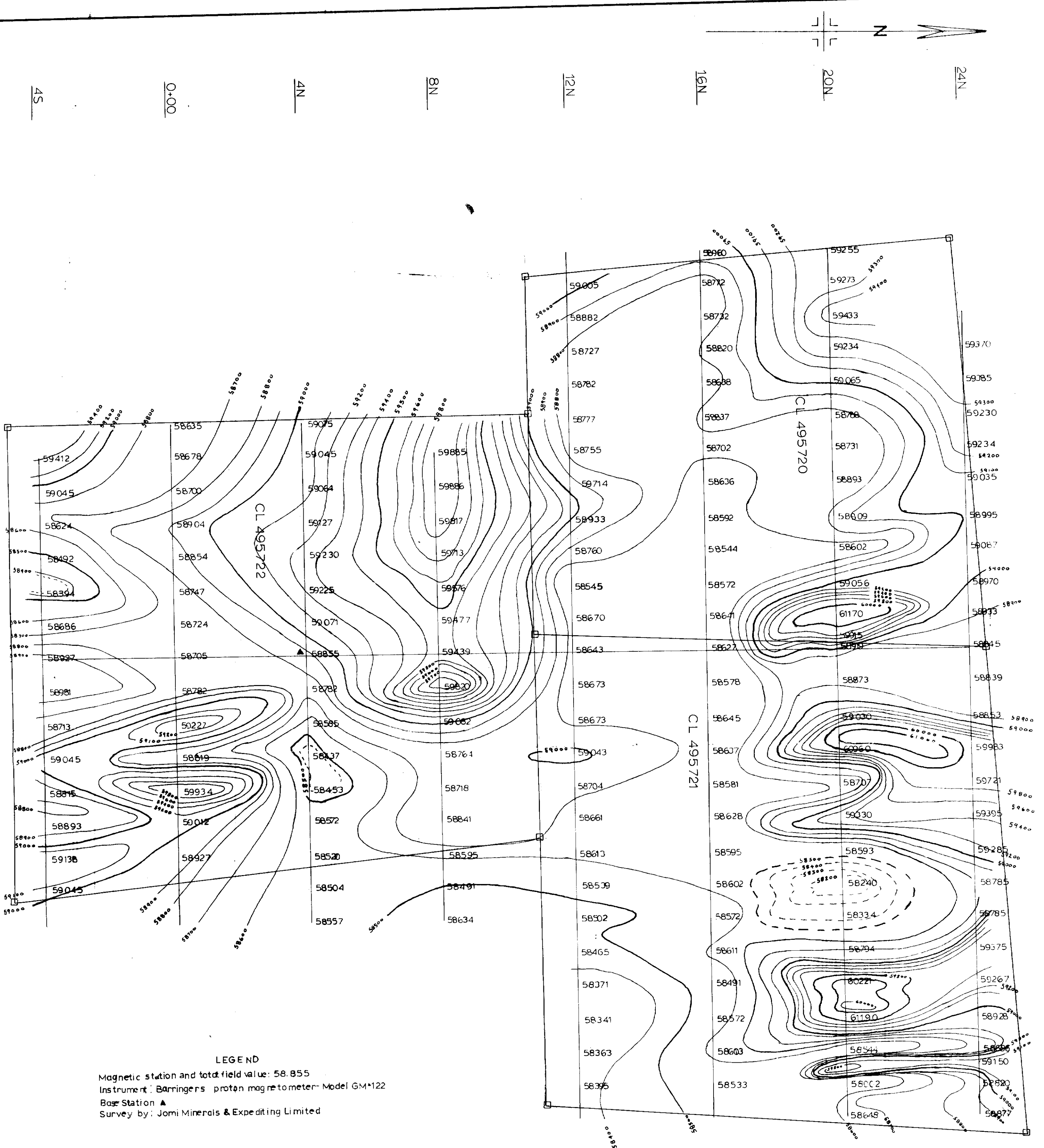
[Handwritten signature]

Landmark

VLF-EM SURVEY
DYMENT-KIDSTON CLAIMS
Teck twp.
LARDER LAKE MINING DIV.
NTS 42A/1

LEGEND
SCALE: 1 inch = 200'
1 inch = 20"
Instrument: Ronka EM16
Station: Cutler Maine 17.8 KHz
Dip: Angle of Resultant field in Degrees
In-Phase
Quadrature
Survey by Jami Minerals & Expediting Ltd





LEGEND
 Magnetic station and total field value: 58.855
 Instrument: Barringer's proton magnetometer Model GM122
 Base Station ▲
 Survey by: Jomi Minerals & Expediting Limited

MAGNETIC SURVEY
DYMENT-KIDSTON CLAIMS
 Teck twp.
 LARDER LAKE MINING DIVISION
 DISTRICT OF TIMISKAMING
 SCALE: 1 inch = 200 ft.

Handwritten signature

22903

