

42A01SE0030 2.3222 TECK

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Assessment Report

Spectrometer Radiometric Survey

Group 11 Dyment-Kidston Claims

Teck Township, Larder Lake Mining Division

RECEIVED

FEB 1 4 1980

MINING LANDS SECTION

Tarzwell, Ontario

January 25, 1979

L. M. Dyment

SUMMARY

During the summer of 1979 a program of general prospecting was carried out. A spectrometer was carried to check areas of known contact between greenstone and syenite. A distinct variation was noted and a grid was cut over the claim group and a radiometric survey was run in the hope aiding the prospector in a later program of mapping the property geologically.

INTROLUCTION

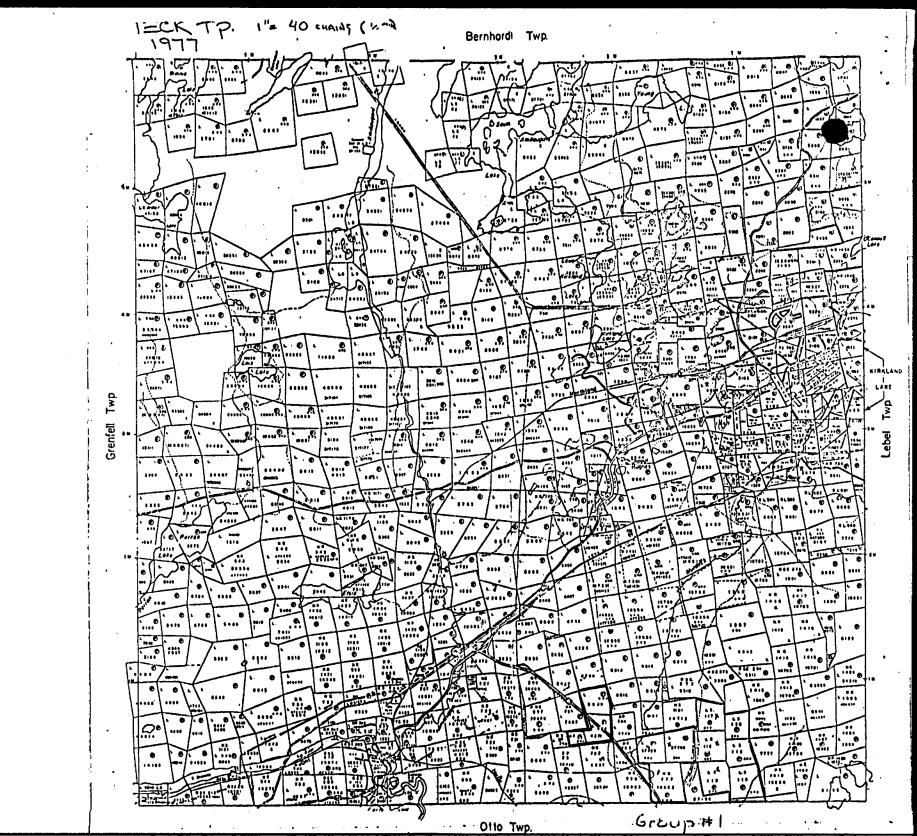
The claim group was staked in Dec. 1977. During the summer of 1978, general prospecting and sampling was done, also during this period flag and compass lines were put in. A VLF-EM survey and Magnetometer survey was done and can be found in the Assessment files. Further prospecting and sampling was done in 1979 and a proper grid was cut.

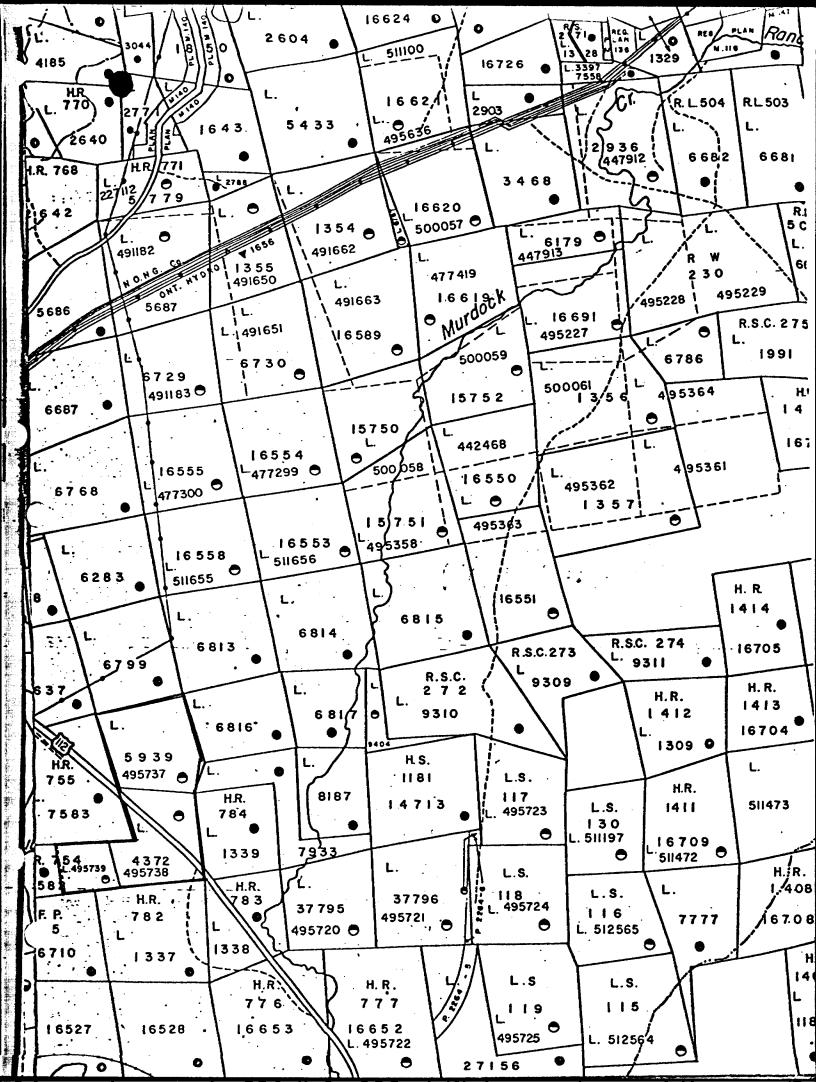
LOCATION AND ACCESS

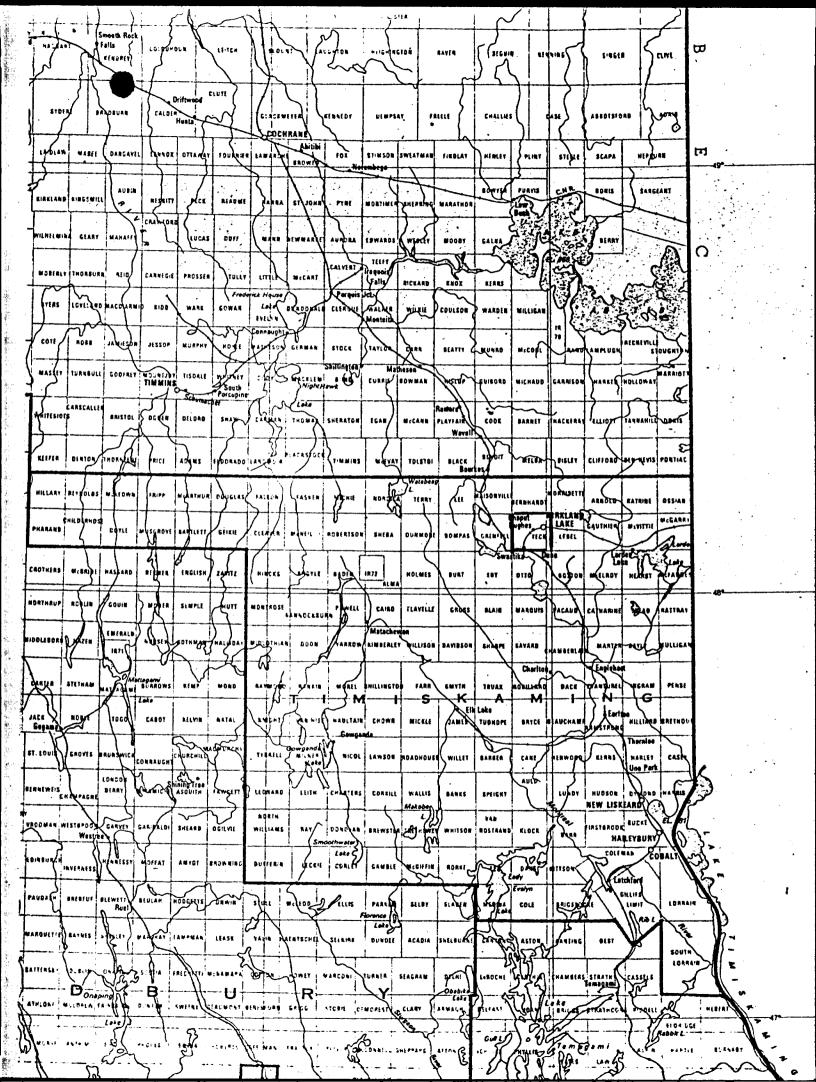
The claim group is located near the southeast corner of Teck twp. (NTS 1,2 A/1), approximately 2 miles due south of Kirkland Lake. Access to the group is excellent as Hwy. 112 passes through the group.

PREVIOUS WORK

A search of the Kirkland Lake District Geologists files failed to locate any work filed on these claims.







SURVEY METHOD

A grid was cut and chained. A McPhar TV-lA spectrometer was used and was left continuously running while only the 100 foot stations were noted. Topographical features and geological features were noted for future mapping reference.

SURVEY RESULTS

As was expected the syenite and greenstone showed up as contourable entities. Although a distinct contact was not obtained as hoped. The syenites showed up in the 10 to 25 counts per second range and the greenstone as 10 or less counts per second.

During general prospecting prior to the survey, a contact between syenite and greenstone just of the property at 50 feet east of station 3 south on line 23 east was found to read 125 counts per second.

CONCLUSION AND RECOMMENDATIONS

The Radiometric survey served its purpose by aiding the prospector in the future progam of detailed mapping of the property. It also pinpointed areas of interest for general prospecting in the upcoming field season



Assessment Report

Radem VLF-EM Survey

Group 1 Dyment-Kidston Claims
Teck township

Larder Lake Mining Division

RECEIVED

FEB 1 4 1980

MINING LANDS SECTION

Jomi Minerals & Expediting Ltd.

Tarzwell, Ontario

Nov. 23, 1979

Report by

L. Mike Dyment

SUMMARY

In the month of June, 1979, a Radem VLF-EM survey was carried out over a group of 3 claims (495720, 495721, 495722), held in Teck Twp., Larder Lake Mining Division herein referred to as the Dyment-Kidston claims.

INTRODUCTION

The claim group was staked in December, 1977. During the summer of 1978, general prospecting and sampling was done and some reconnaissance lines were run with a VLF/EM. A program of linecutting was carried out and a Proton Magnetometer survey was done and compilated and can be found in the ODM assessment files. (f.2.2903).

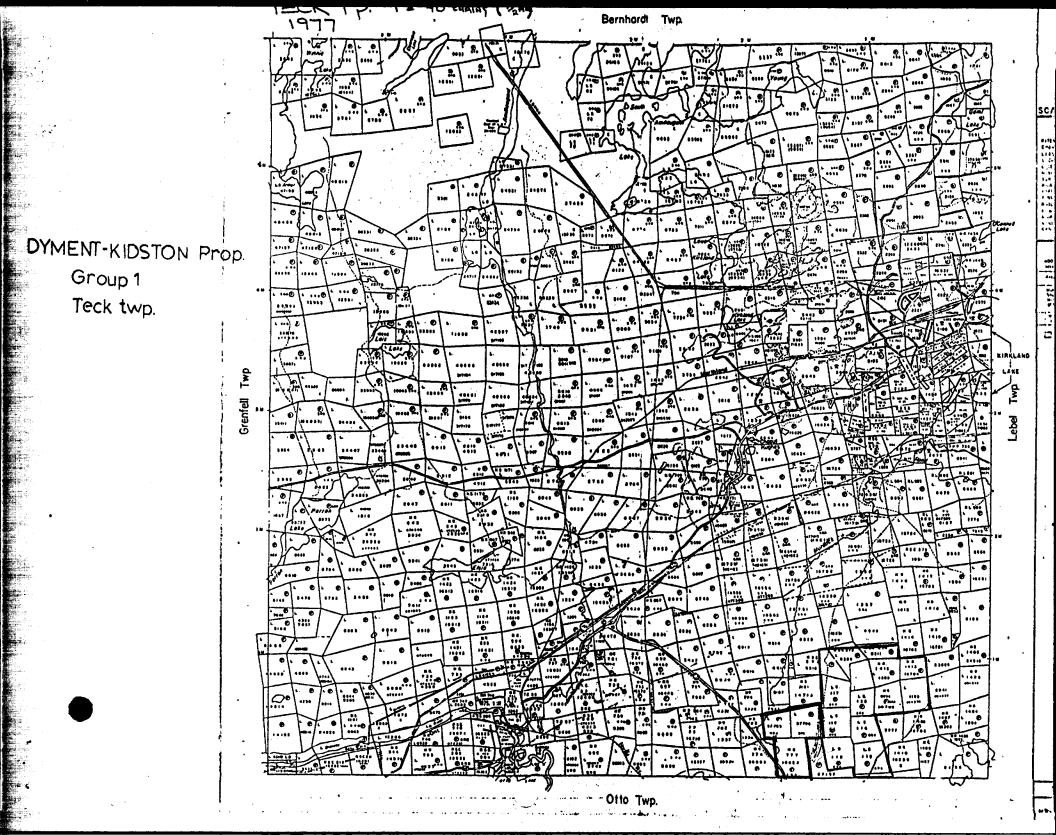
LOCATION AND ACCESS

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 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. Personal communication with a relative of a former holder gave interesting facts but only hearsay.

BLAIR WARDUIS CAIRD TEAVELLE | EMDES PICLISON DANOSON SHARPE SAVARD CHAMBERL MIMBERLEY Elk Loke CHOWS MICKLE BARBER NICOL LAWSON ROADHOUSE WILLES SPEIGHT VAN NOSTRAND KLDER HAREYBURY CAMBLE CAMBLE Lotchion MLBy ACADIA JENELEUKE DUNGIE LOSEAN SE CLARY



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SURVEY METHOD

- (a) Dip Angle of Resultant field— This is the angleoff inclination, measured from the horizontal in degrees, of the direction of the resultant VLF field. The VLF field is normaly horizontal (O dip). The dip angle measurement is independent of the strength of the field and the gain setting of the Radem receiver. When plotted on a profile the dip angles usually form a crossover pattern above the conductor as with the standard vertical Loop EM method. To measure the dip angle the Radem is held with the instrument face horizontal and rotated until a null is obtained. This aligns the Radem with the direction of the VLF field. The Radem is then held vertically and tilted from right to left until another null is obtained. The instrument is held steady in this position and the dip angle read from the inclinometer.
- (b) Horizontal Component of the Field Strengthr This is simply the strength of the field in the horizontal plane. It is the maximum reading obtained from the Field Strength meter when the instrument is rotated in the horizontal plane. The field strength of VLF stations drifts with time. A base station should be established in a normal area and the Radem adjusted to a Horizontal Field Strength of "100" on the "0 300" scale by means of the volume control pct. This base station should be read every one to two hours as in a magnetic survey.

SURVEY RESULTS

EM crossovers were noted on the profile map. Thesesangmaliess have been designated A; B, C, D, E; A separate map for field strength was contoured and correlated well with the EM crossovers. Shearing is the suspected cause of D and E. Further prospecting and trenching will be required, along with detailed geological mapping to arrive at an opinion of the cause of A,B, C.

CONCLUSION & RECCHMENDATION

The VLF-EM survey has fullfilled its requirement, in further aiding the Prospector in pinning down overburden covered areas of interest on his property. A more conventional EM instrument used on this property in the future, would certainly be of assistance. The next stage of the program for the prospector will be detailed geological mapping, stripping and trenching in the upcoming field season.



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GEOPHYSICAL – GEOLOGIC. TECHNICAL DATA



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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.

MINING
LANDS SECTION

Type of Survey(s) RADIOMETRIC	
Township or Area TECK	MINING CLAIMS TRAVERSED
Claim Holder(s) L.M. DYNENT	List numerically
Survey Company JOMI MINERALS & EXAUTHOR OF Report L. M. DYMENT Address of Author RR # 1 TARZWELL (Covering Dates of Survey Survey (linecutting to office) Total Miles of Line Cut 2.7 (Octe)	(prefix) (number) 495.73.7 -16.1979 2.1979 4.10.7-26
SPECIAL PROVISIONS CREDITS REQUESTED Georphysical	DAYS per claim
Geophysical	
ENTER 40 days (includes Electromag	netic
line cutting) for first —Magnetome	
surveyRadiometri	c <u>40</u>
ENTER 20 days for each —Other	
additional survey using Geologicalsame grid.	
Geochemical	
AIRBORNE CREDITS (Special provision credits do not app	y to airborne surveys)
MagnetometerElectromagneticRa	diometric
(enter days per claim) DATE: JAN 25/1929 SIGNATURE:	Type
Author	of Report or Agent
Res. Geol. Qualifications 2.	2903
Previous Surveys	
File No. Type Date Claim	Holder
	TOTAL CLAIMS

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey Number of Stations 158 Number of Readings 158 Station interval ______Line spacing _____400' Profile scale _____ Contour interval 2 Counts Per Second. Instrument TV - IA MCPHAR Accuracy - Scale constant _____ Diurnal correction method _______ Base Station check-in interval (hours) Base Station location and value Instrument _____ Coil configuration _____ Coil separation _____ Accuracy _____ ☐ Shoot back ☐ In line ☐ Parallel line ☐ Fixed transmitter Method: Frequency____ (specify V.L.F. station) Parameters measured Instrument _____ Scale constant _____ Corrections made Base station value and location _____ Elevation accuracy_____ Instrument _____ ☐ Frequency Domain Parameters - On time ______ Frequency _____ - Off time Range - Delay time _____ - Integration time Power _____ Electrode array Electrode spacing _____

Type of electrode _____

INDUCED POLARIZATION

Instrument	Range
Survey Method	
Corrections made	
RADIOMETRIC	
Instrument MCPHAR TV-1A	
Values measured <u>Counts Per Sec</u>	cond.
Energy windows (levels) 100, 1000 10,000	, 100,000
Height of instrument 3 Feet	
Size of detector 43 Cu. Continutre	2.5
Overburden name / Se	e Teck 1945-1
(type, depth — include	de outerop map)
OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)	
Type of survey	
Instrument	
Accuracy	
Parameters measured	and the second s
Additional information (for understanding results)	
AIRBORNE SURVEYS	
Type of survey(s)	and the second s
Instrument(s)	
(specify for each typ	e of survey)
Accuracy(specify for each typ	pe of survey)
Aircraft used	
Sensor altitude	
Navigation and flight path recovery method	
	71.0
Aircraft altitude	
Miles flown over total area	Over claims only

.

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken	
Total Number of Samples	ANALYTICAL METHODS
Type of Sample(Nature of Material)	
(Nature of Material) Average Sample Weight	p. p. m. 1 1
Method of Collection	p. p. b
	Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)
Soil Horizon Sampled	Others
Horizon Development	Field Analysis (tests)
Sample Depth.	Extraction Method
Terrain	Analytical Method
Drainage Development	Field Laboratory Analysis
Estimated Range of Overburden Thickness	
	Extraction Method
	Analytical Method
	Reagents Used
SAMPLE PREPARATION	Commercial Laboratory (tests
(Includes drying, screening, crushing, ashing)	Name of Laboratory
Mesh size of fraction used for analysis	Extraction Method
	Analytical Method
	Reagents Used
	·
General	General ————————————————————————————————————

Ontario

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Ministry of Natural Resources

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) FLECTHOMAGNETIC			
Claim Holder(s) L. M. Dyment.	MINING CLAIMS TRAVERSED		
Claim Horder(s). H. T. Dyment.	List numerically		
Survey Company Jomi Minerals & Expediting Ltd.	L 495720 (prefix) (number)		
Author of Report L. M. Dyment	(prefix) (number) L 495721		
Address of Author RR #1 Tarzwell, Ont. POK 1VO	L 495722		
Covering Dates of Survey June 6-7 1979 (linecutting to office)			
Total Miles of Line Cut 3.5			
SPECIAL PROVISIONS CREDITS REQUESTED Geophysical DAYS per claim			
Geophysical ENTER 40 days (includes —Electromagnetic 20			
ENTER 40 days (includes line cutting) for first —Magnetometer			
survey. —Radiometric			
ENTER 20 days for each —Other			
additional survey using Geologicalsame grid.			
Geochemical			
AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)			
Magnetometer Electromagnetic Radiometric (enter days per claim)	••••		
DATE: Nov. 23/1979 SIGNATURE:			
Author of Report or Agent			
	••••••		
Res. Geol. Qualifications 2.2903 + 8h			
Previous Surveys File No. Type Date Claim Holder	•••••••••••••••••••••••••••••••••••••••		
	•••••••••••••••••••••••••••••••••••••••		

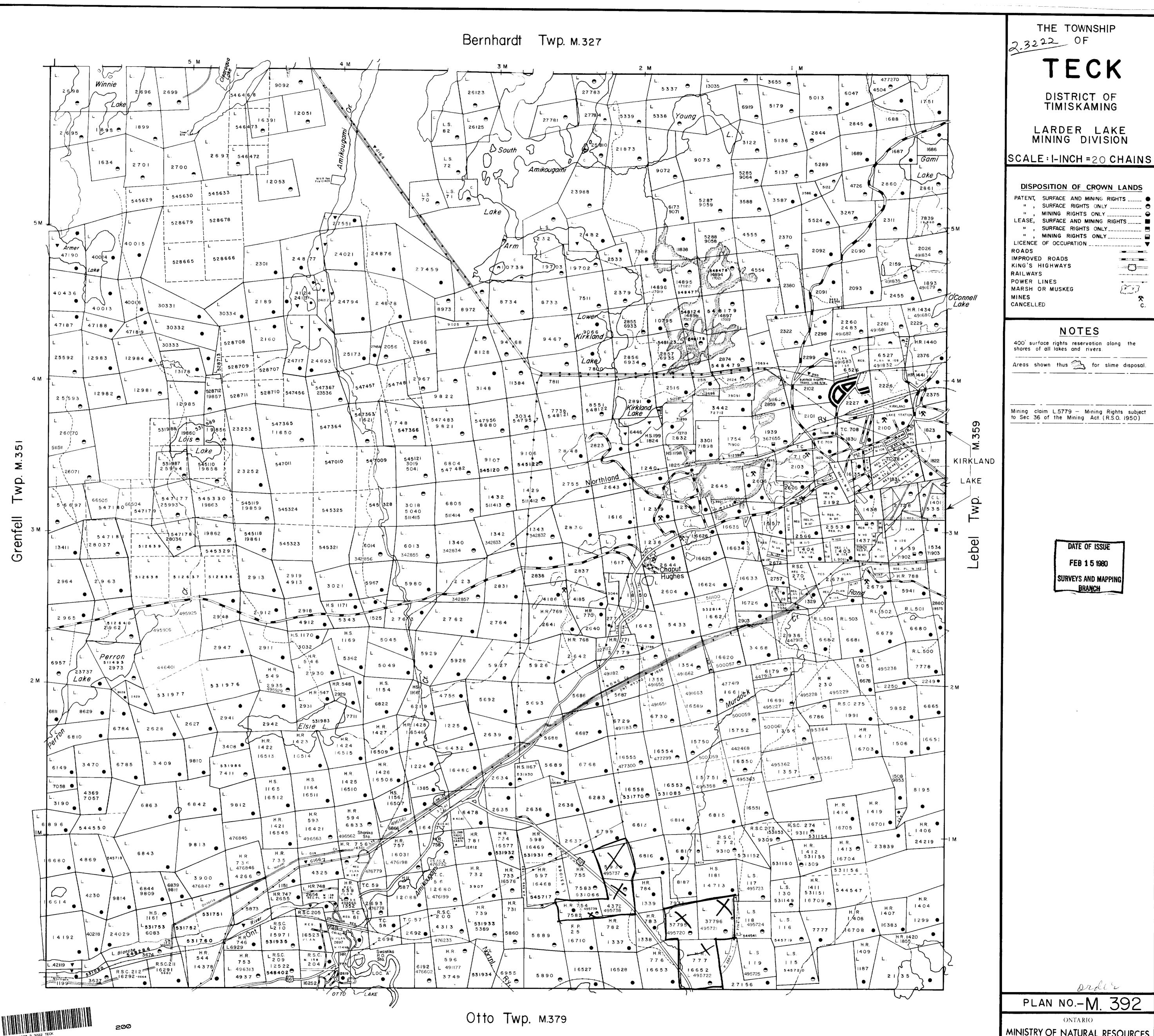
	TOTAL CLAIMS 3		

GEOPHYSICAL TECHNICAL DATA

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

N	lumber of Stations163	
S	tation interval 100 '	Line spacing400 '
P		
·C	ontour interval25%	
7 N	Instrument	
VETIC	Accuracy – Scale constant	v / s
	• •	
MA		
•	Base Station location and value	
ELECTROMAGNETIC	Instrument Crone Radem VLF Coil configuration Vertical	
NS I	Coil configurationInfinite	· · · · · · · · · · · · · · · · · · ·
MA		
S S	Accuracy	
בַ		☐ Shoot back ☐ In line ☐ Parallel line
ELI	Frequency Annapolis, Maryland	(specify V.L.F. station)
	Parameters measured Tilt angles;	Field Strength (total or horizontal)
	Instrument	
K.I	Scale constant	
VITY	Corrections made	
X.		
GRA	Base station value and location	
	Instrument	
	Method Time Domain	☐ Frequency Domain
RESISTIVITY	Parameters – On time	·
		Range
	— Delay time	
	– Integration time	
2		
	·	
	Type of electrode	

INDUCED POLARIZAT



MINISTRY OF NATURAL RESOURCES SURVEYS AND MAPPING BRANCH

