



42A12NE0605 2.2491 MOBERLY

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RECEIVED
SEP 20 1977
MINING LANDS SECTION
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SEP 20 1977
PROJECTS UNIT

GEOPHYSICAL SURVEY

on the

MOBERLY #1 GROUP

Hollinger Mines Limited
Moberly Township, Ontario

Timmins, Ontario
September 19, 1977

E. D. Mackenzie
E. D. Mackenzie
Chief Geologist
Hollinger Mines Limited

INTRODUCTION

A horizontal loop electromagnetic survey was carried out during the period from November, 1976 to July, 1977, over 40 contiguous claims in Moberly Township, District of Cochrane, in the Porcupine Mining Division, Province of Ontario.

PROPERTY, LOCATION and ACCESS

Group #1 consists of 40 unpatented claims that were covered by the H.E.M. survey and 8 contiguous claims that remain to be surveyed.

The claims covered by the survey are as follows:

P-453371 to P-453386 inclusive

P-453367 to P-453370 inclusive

P-492774 to P-492785 inclusive

P-492847 to P-492854 inclusive

Moberly Township is located approximately 30 miles northwest of Timmins. The group can be reached by helicopter from the airbase in Timmins in less than 15 minutes flying time. No roads exist in the township and the Kamiskotia river is at present without a bridge. The group can be reached by skidoo in the winter on a broken trail north from the Kamiskotia highway, a distance of twenty miles.

TOPOGRAPHY

Moberly Township is located in the clay belt. There is no outcrop exposed on the entire claim group and the ground is level spruce swamp with small creeks emptying into Enid creek just south of the claim group.

SURVEY METHOD

Line cutting was completed from the 0+00 B.L. on the north boundary of the claims with lines cut at 400' intervals. The lines were cut to the south tie line along the Moberly-Byers township line. An additional detail grid was cut over Anomaly A.

ELECTROMAGNETIC SURVEY

The electromagnetic survey was conducted along the established grids using an EM-17 unit manufactured by Geonics Limited of Toronto, Ontario. Readings were taken at every 100' station with additional readings in anomalous areas. Readings were taken utilizing the 400' cable for maximum penetration.

SURVEY RESULTS

The results of the survey are profiled on the accompanying map entitled H.E.M. Survey, Moberly #1, at a scale of 1 inch = 400'.

Of the five anomalies worth labelling, only anomaly "A" is a definite bedrock conductor.

Anomalies "B", "C" and "D" would require checking with a vertical loop system, using an 800' separation before they could be considered "drill" targets.

Anomaly "E" appears to be in the range of instrument error and does not appear to warrant further work.

CONCLUSIONS

Since Anomaly "A" has already been tested by drilling, further work is recommended on Anomalies "B", "C" and "D" utilizing the vertical loop or an APEX unit.

Respectfully submitted,

C. D. MacKenzie
C. D. MacKenzie

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SEP 20 1977

July 26, 1977.

MINING LANDS SECTION

Statement showing distribution of Assessment Days as a result of a Geophysical E.M. Survey performed on mining claims P-453371-86 et al, Moberly Township, November 1976 to July 1977

<u>Claim Number</u>	<u>Assessment Days</u>	<u>Claim Number</u>	<u>Assessment Days</u>
P-453371	40	P-492774	40
453372	40	492775	40
453373	40	492776	40
453374	40	492777	40
453375	40	492778	40
453376	40	492779	40
453377	40	492780	40
453378	40	492781	40
453379	40	492782	40
453380	40	492783	40
453381	40	492784	40
453382	40	492785	40
453383	40	492847	40
453384	40	492848	40
453385	40	492849	40
453386	40	492850	40
453367	40	492851	40
453368	40	492852	40
453369	40	492853	40
453370	40	492854	40

TOTAL = 1600 days


HOLLINGER MINES LIMITED
Timmins, Ontario



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 Electromagnetic
Township or Area Moberly Township
Claim Holder(s) Hollinger Mines Limited
Box 320, Timmins, Ontario P4N 7E2
Survey Company Hollinger Mines Limited
Author of Report C. D. MacKenzie
Address of Author 123 Hemlock Street, Timmins, Ont.
Covering Dates of Survey Oct. 1976 - July 1977
(linecutting to office)
Total Miles of Line Cut 41.57

<u>SPECIAL PROVISIONS</u> <u>CREDITS REQUESTED</u>	<u>DAYS</u> <u>per claim</u>
Geophysical	
-Electromagnetic	<u>40</u>
-Magnetometer	<u>on</u>
-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: Sept. 19/77 SIGNATURE: C. D. MacKenzie
Author of Report or Agent

Res. Geol. _____ Qualifications B.S. 1255

Previous Surveys

File No.	Type	Date	Claim Holder
		<u>C.D.</u>	

<u>MINING CLAIMS TRAVERSED</u>	
<u>List numerically</u>	
<u>(prefix)</u>	<u>(number)</u>
P -	492774 ✓
	492775 ✓
	492776 ✓
	492777 ✓
	492778 ✓
	492779 ✓
	492780 ✓
	492781 ✓
	492782 ✓
	492783 ✓
	492784 ✓
	492785 ✓
	492847 ✓
	492848 ✓
	492849 ✓
	492850 ✓
	492851 ✓
	492852 ✓
	492853 ✓
	492854 ✓
	453367 ✓
	453368 ✓
	453369 ✓
	453370 ✓
	453371 ✓
	453372 ✓
	453373 ✓
	453374 ✓
	453375 ✓
	453376 ✓
	453377 ✓
	453378 ✓
	453379 ✓
	453380 ✓
	453381 ✓
	453382 ✓
	453383 ✓
	453384 ✓
	453385 ✓
	453386 ✓
TOTAL CLAIMS	40

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 2131 Number of Readings 2131
Station interval 100' Line spacing 400'
Profile scale 1" = 40%
Contour interval

MAGNETIC

Instrument
Accuracy - Scale constant
Diurnal correction method
Base Station check-in interval (hours)
Base Station location and value

ELECTROMAGNETIC

Instrument Geonics EM-17
Coil configuration Horizontal Co-planar
Coil separation 400'
Accuracy
Method: [] Fixed transmitter [] Shoot back [x] In line [] Parallel line
Frequency 1600 Hz (specify V.L.F. station)
Parameters measured in-phase (real) Quadrature (imaginary)

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

MOBERLY TWP

PORCUPINE MINING DIVISION

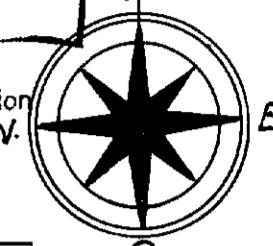
DISTRICT OF COCHRANE.

Scale, 40 chains to an inch.

WILHELMINA TWP.

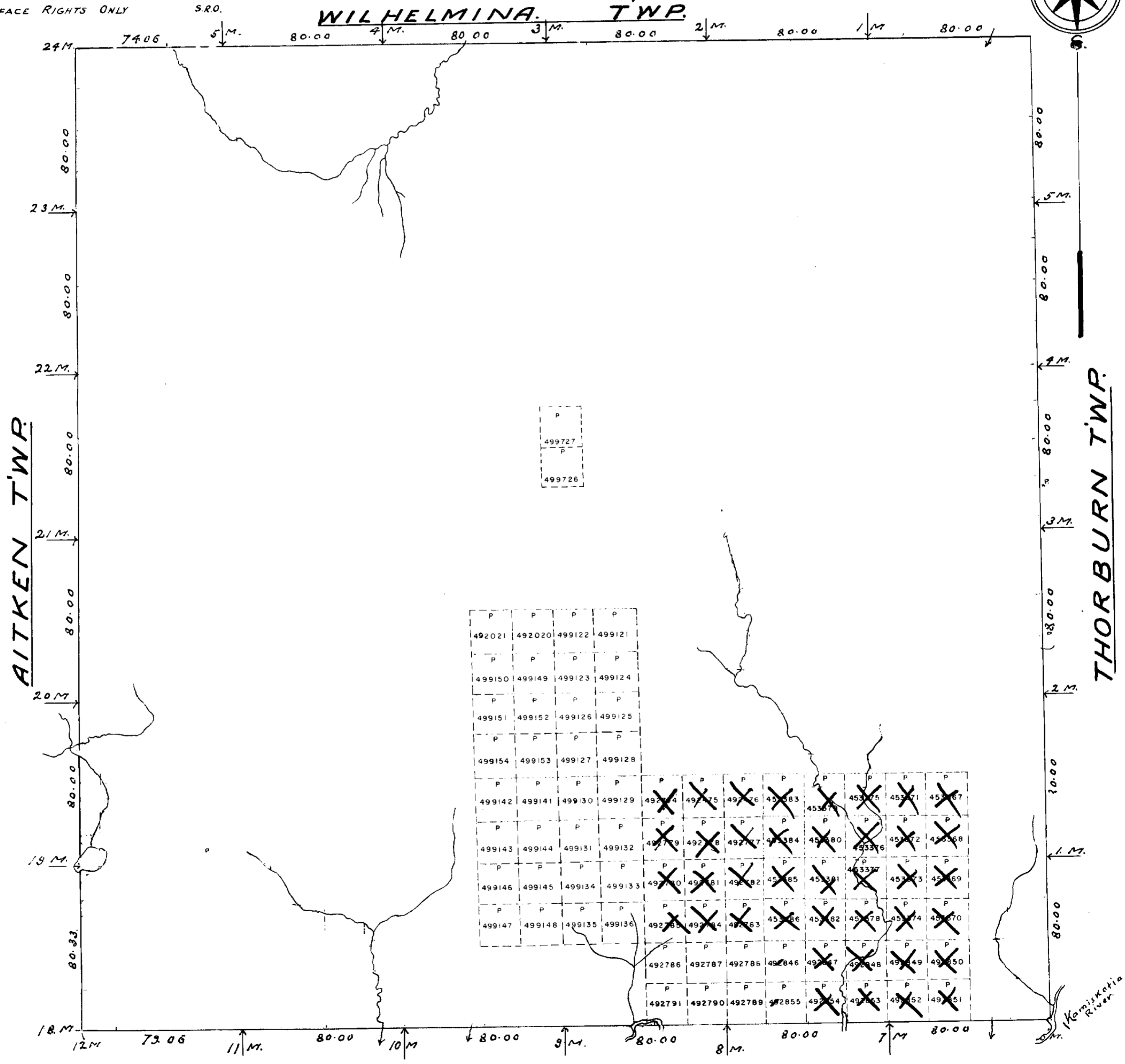
DATE OF ISSUE
SEP 28 1977
SURVEYS AND MAPPING
BRANCH

NOTE
400' Surface Rights Reservation
around all Lakes and Rivers W.



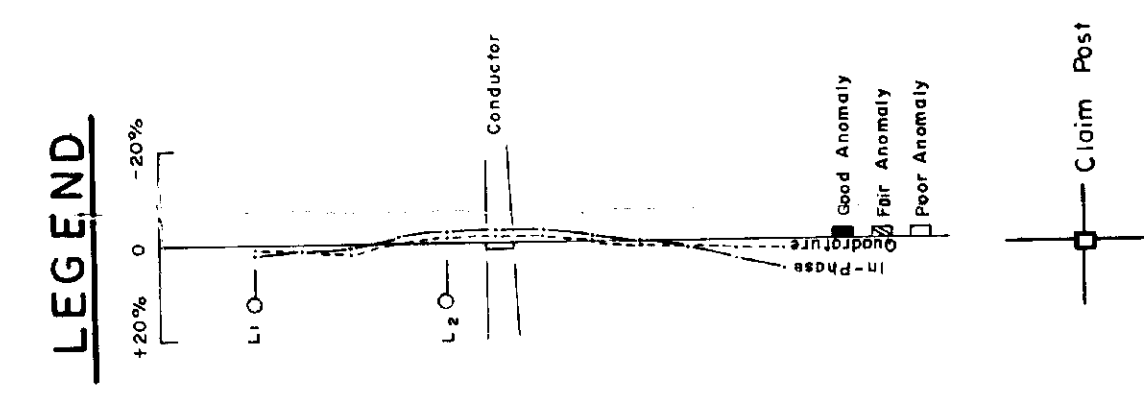
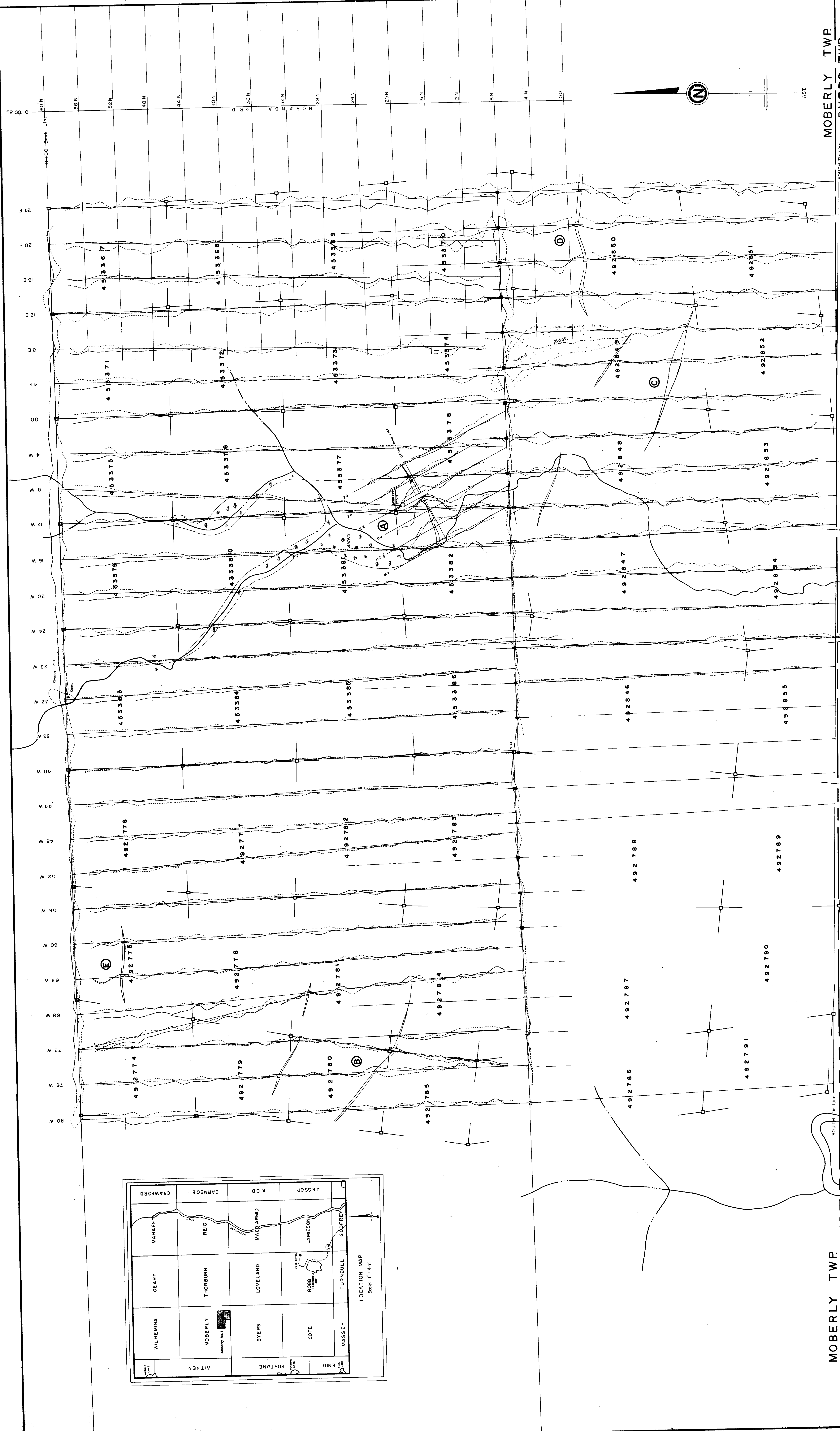
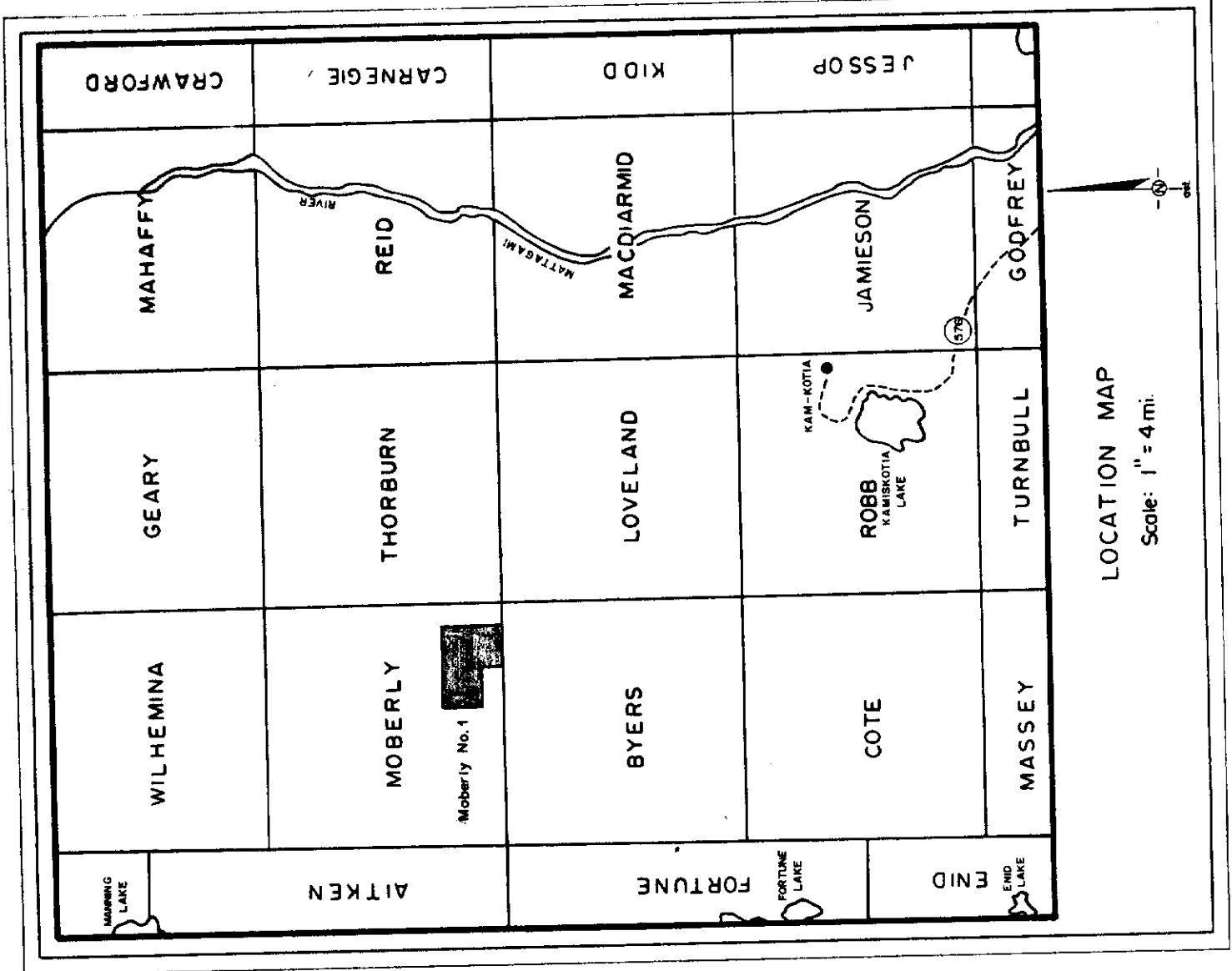
- LEGEND**
- CANCELLED
 - PATENTED LAND
 - CROWN LAND SALE
 - LEASES
 - LOCATED LAND
 - LICENSE OF OCCUPATION
 - MINING RIGHTS ONLY
 - SURFACE RIGHTS ONLY

- C.
- Ⓟ
- C.S.
- Ⓛ
- Loc.
- L.O.
- M.R.O.
- S.R.O.



BYERS TWP.





H. E. M. SURVEY
 (1600 Hz)
MOBERLY NO. 1
 Moberly Twp. Ont.
 SCALE: 1" = 400'

