

J.1993

KERR ADDISON MINES LIMITED

KENORA, ONTARIO P9N 3X7

TELEPHONE 468-5434

MAILING ADDRESS: P.O. BOX 1390



52G03SW0037 2, 1993 NORWAY LAKE

010

PROJECTS UNIT

REPORT OF THE GROUND GEOPHYSICAL SURVEYS CARRIED OUT IN THE LUMBY LAKE AREA ON
CLAIMS OWNED BY KERR ADDISON MINES LTD.

General

During the period April 7, 1975 to June 30, 1975, 41 miles of linecutting and chaining were completed wholly and partially on 23 claims:

416716 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28

416732 - 33 - 34 - 35 - 36 - 37 - 38 - 39 - 40 - 41 located on claim map 2385 in the Lumby Lake area 28 miles north east of Atikokan, Ontario (NTS 5203).

38 miles of electromagnetometer surveys and 38 miles of magnetometer survey was also completed over these lines. The purpose of these surveys was to locate base metal targets for diamond drilling.

Geophysical Surveys

The magnetometer survey utilized a McPhar 700 Fluxgate magnetometer of 5 gamma accuracy. A base station was maintained and diurnal drift correction for control. Readings were taken at 100 foot stations except in the vicinity of anomalies where readings were taken at 50 foot stations on lines 200 feet apart.

The electromagnetometer survey utilized a Crone Radem VLF instrument reading an audible signal of a primary field of 18.6 KHZ from communication station Seattle, Washington. The dip angle was measured in degrees from the horizontal component of the VLF field. Detected by minimum on the field strength meter and read from an inclinometer with a range of $\pm 80^\circ$ and an accuracy of $\pm 1^\circ$. The readings were taken along the same lines as the magnetometer on 100 foot stations except in the vicinity of anomalies where they were taken at 50 foot stations. The picket lines were cut at right angles to the general

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- 2 -

strike of the volcanic formation. A baseline 00 was used for control and paralleled the volcanic formation striking due east-west.

The dip angle reading were processed and contoured dip angle readings were plotted on maps which are enclosed with this report. Contouring of the positive readings outlined numerous conductive areas.

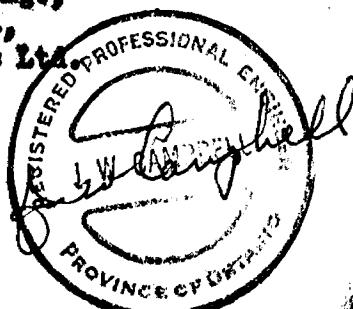
Note: Enclosed are maps at 1" = 200' of the McPhar 700 Magnetometer, Crone Radem VLF Electromagnetometer dip angle surveys and contoured results of the Crone Radem Dip Angle survey. Two maps of each survey were necessary to cover the eastern and western portions of the property. Also enclosed are copies of catalogues explaining the operation of these instruments.

Results and Recommendations

The results of the geophysical surveys indicated numerous conductive zones that were often not supported with magnetic correlation but in one area correlated with a known disseminated pyrite-chalcopyrite-sphalerite shewing. Also the major east-west shear zone appears as a series of conductive zones. In the course of traversing the property, the land area of the claims appears to have an overall shallow sandy clay overburden. Thus geochemical soil sampling for copper-zinc can be recommended as a reasonable cost tool to more ably select a few of the conductive zones for diamond drill testing. It is also recommended that I.P. surveys over the conductive zones might further select the better targets with higher metal factors and thus direct costly drilling in a more intelligent manner.

J. W. Campbell
J.W. Campbell, P.Eng.,
Regional Geologist,
Kerr Addison Mines Ltd.

References: ODM Geological Report Lumby Lake Area
by R.S. Wolverton
ODM Geological Map 1960g 1"= $\frac{1}{2}$ mile.



GE



52G03SW0037 2.1993 NORWAY LAKE

900

File Q. 1993

STATEMENT

RECEIVED

DEC 5 1975

PROJECTS UNIT

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 Magnetometer & Electromagnetometer

Township or Area Lumby Lake Area

Claim holder(s) Kerr Addison Mines Ltd.

P.O. Box 91, Commerce Court West, Toronto, Ont.

Author of Report J.W. Campbell, P.Eng.

Address P.O. Box 1390, Kenora, Ontario.

Covering Dates of Survey April 7, 1975 - June 30, 1975
(linecutting to office)

Total Miles of Line cut 41

MINING CLAIMS TRAVERSED
List numerically

MAP

EM

TB..... 416716 1/2
(prefix) (number)

416717 1/2

416718 1/4

416719 ✓

416720 ✓

416721 ✓

416722 ✓

416723 1/4

Area not covered 416724 ✓

= 3 1/2 claims 416725 ✓

23 x 40 = 920 416726 ✓

= (23 + 3) = 35 416727 1/2

days per claim 416728 ✓

for E.M. 416732 1/2

= 18 days for 416733 ✓

May 416734 1/4

June 416735 ✓

416736 1/4

416737 ✓

416738 1/4

416739 ✓

416740 1/4
416741 ✓

TOTAL CLAIMS 28

SPECIAL PROVISIONSCREDITS 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	10
-- 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: November 10, 1975 SIGNATURE: *J.W. Campbell*

Author of Report or Agent

PROJECTS SECTION L.D

Res. Geol. Qualifications 2.274

Previous Surveys 2.379 May 16 in 1971 diff. instruments

Checked by date

GEOLOGICAL BRANCH

Approved by date

GEOLOGICAL BRANCH

Approved by date

If space insufficient, attach list

Show instrument technical data in each space for
type of survey submitted or indicate "not applicable"

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations _____ Number of Readings _____
Station interval _____
Line spacing _____
Profile scale or Contour intervals _____
(specify for each type of survey)

MAGNETIC

Instrument McPhar 700 Fluxgate
Accuracy - Scale constant $\pm 1\%$
Diurnal correction method All readings timed and connected into base station
Base station location Along 0+00 baseline at all picket line junctions

ELECTROMAGNETIC

Instrument Crone Radem VLF
Coil configuration _____
Coil separation _____
Accuracy _____
Method: Fixed transmitter Shoot back In line Parallel line
Frequency 18.6 KHZ Seattle, Washington
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____
Scale constant _____
Corrections made _____

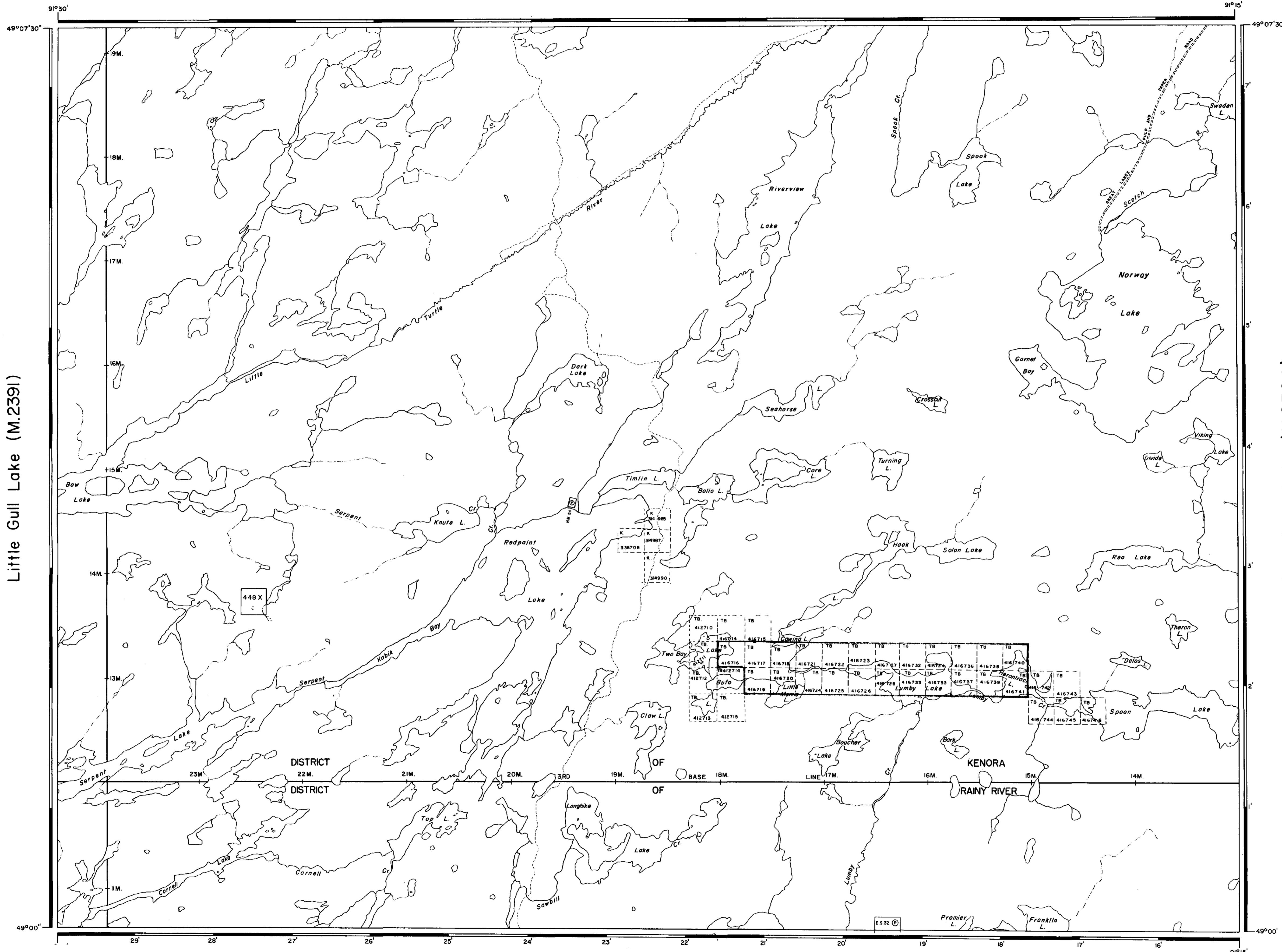
Base station value and location _____

Elevation accuracy _____

INDUCED POLARIZATION -- RESISTIVITY

Instrument _____
Time domain _____ Frequency domain _____
Frequency _____ Range _____
Power _____
Electrode array _____
Electrode spacing _____
Type of electrode _____

Gulliver Lake (M.2454)



AREA OF Q.1993

NORWAY LAKE

DISTRICT OF KENORA - RAINY RIVER

THUNDER BAY MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

(P)	C.S.
(L)	Loc.
(L.O.)	L.O.
(M.R.O.)	M.R.O.
(S.R.O.)	S.R.O.
—	ROADS
—	IMPROVED ROADS
—	KING'S HIGHWAYS
—	RAILWAYS
—	POWER LINES
—	MARSH OR MUSKEG
—	MINES

NOTES

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

- MINING LANDS - DATE OF ISSUE
DEC - 8 1975
MINISTRY OF NATURAL RESOURCES

NATIONAL TOPOGRAPHIC SERIES 52 G3

PLAN NO. M-2385

ONTARIO

MINISTRY OF NATURAL RESOURCES

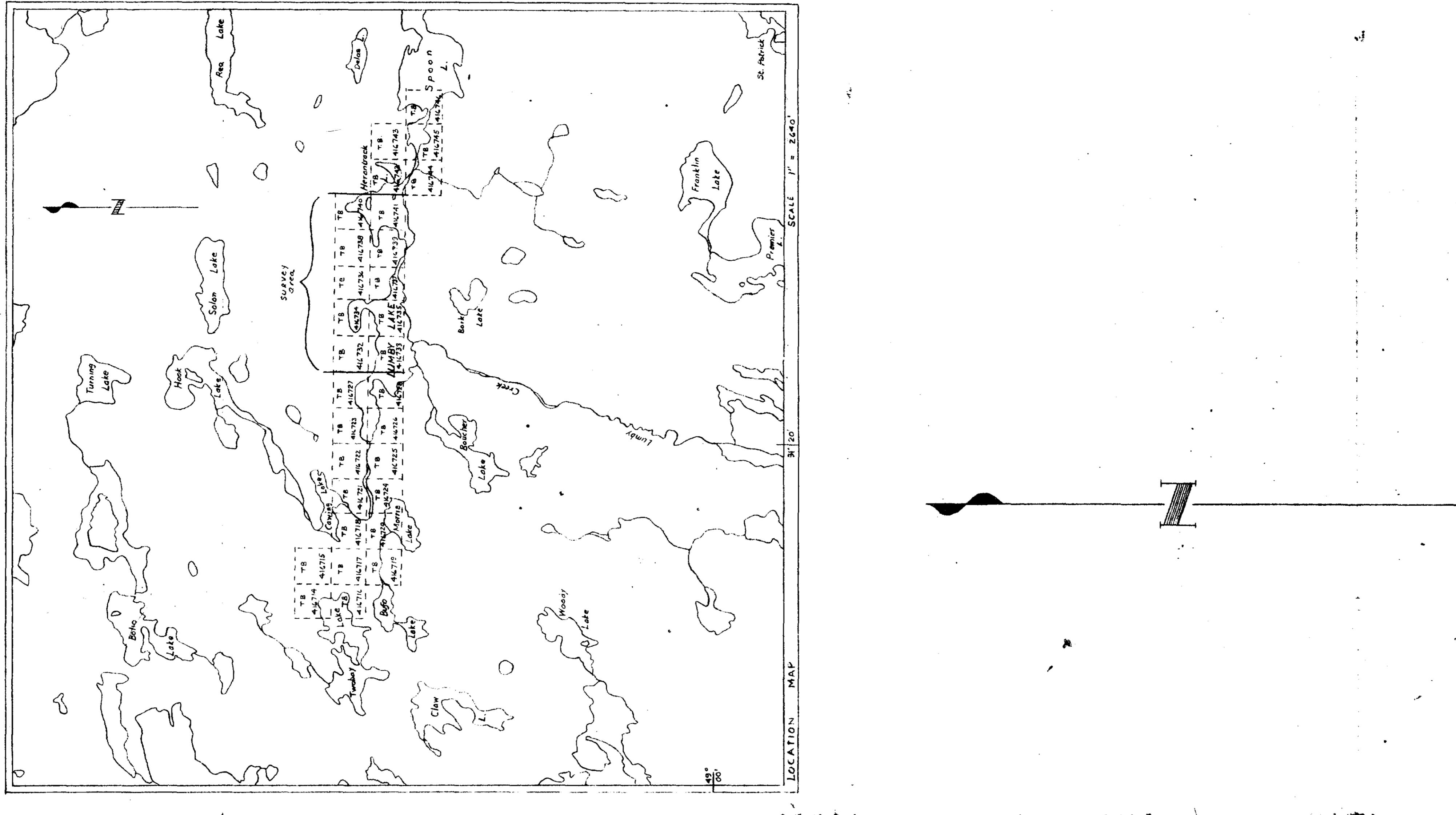
SURVEYS AND MAPPING BRANCH



S2693SW0037 2.1993 NORWAY LAKE

200

K.K.

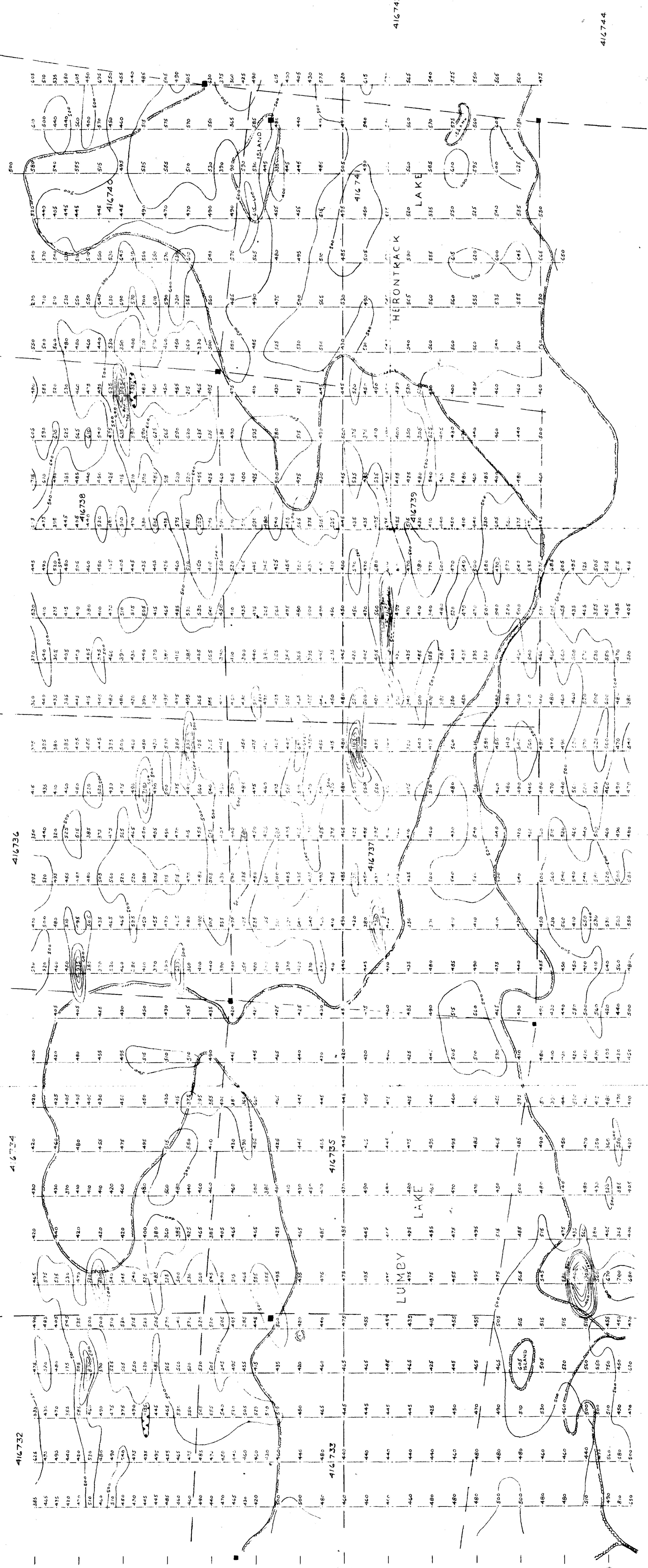



2.993
JULY 1960
KERR ADDISON MINES LTD.

KERR ADDISON MINES LTD.
MAGNETOMETER SURVEY
LUMPY LAKE, ONTARIO
AREA OF NORWAY LAKE

SURVEY DATA
INSTRUMENT - MPMAR M-700
OPERATOR - E. KLOOTERMAN D. MACLEACHEN
LAKE SHORE - CREEK
BUSH TRAIL - CLIMB LINE
CLAIM POSTS - MAP PREPARATION - T ZONES

L42E
L40E
L38E
L36E
L34E
L32E
L30E
L28E
L26E
L24E
L22E
L20E
L18E
L16E
L14E
L12E
L10E
L8E
L6E
L4E
L2E
L0
L2W
L4W
L6W
L8W
L10W
L12W
L14W
L16W
L18W
L20W
L22W





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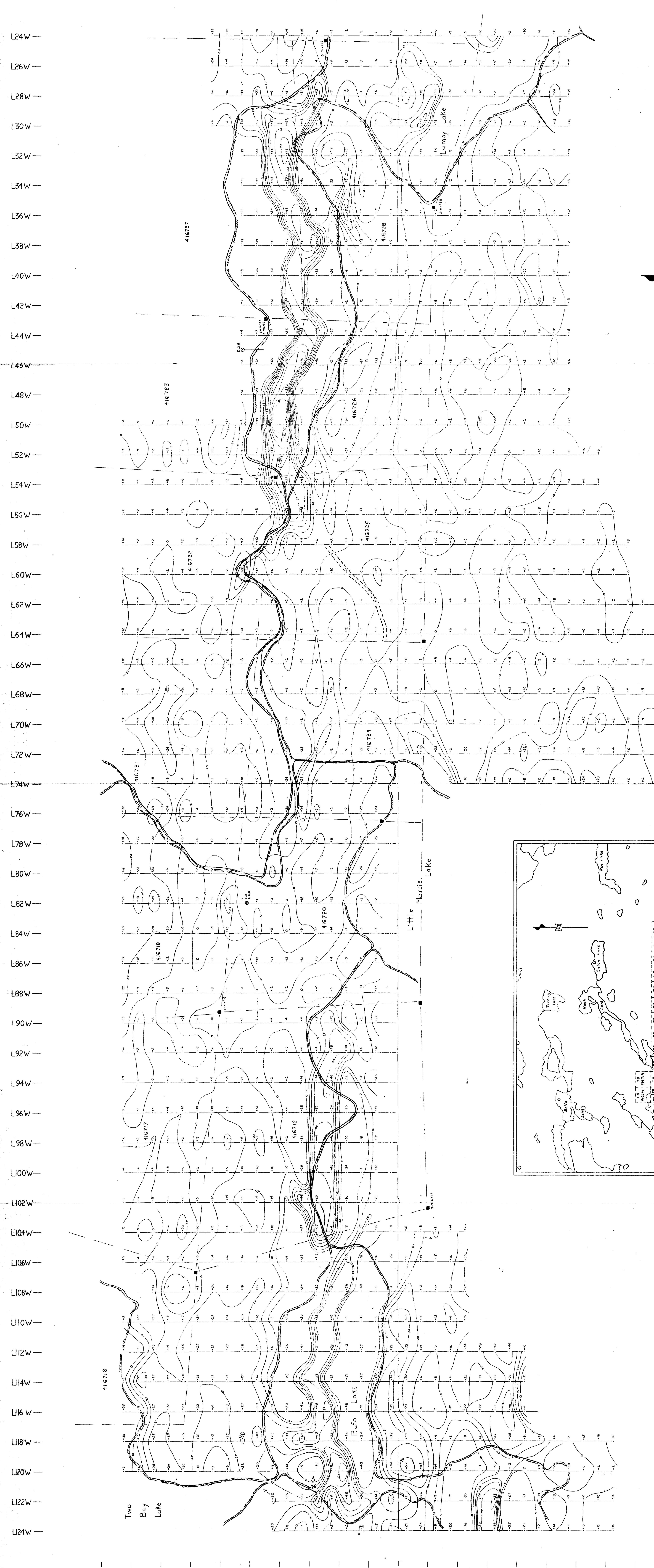
2.1993

KERR ADDISON MINE
MAGNETOMETER - SURV
LUMBY LAKE 'O-19'
AREA OF NORWAY LAKE ON
SCALE 1 : 2000

ERR ADDISON MINES LTD
MAGNETOMETER - SURVEY
LUMBY LAKE '0-19'
EA OF NORWAY LAKE ONTARIO

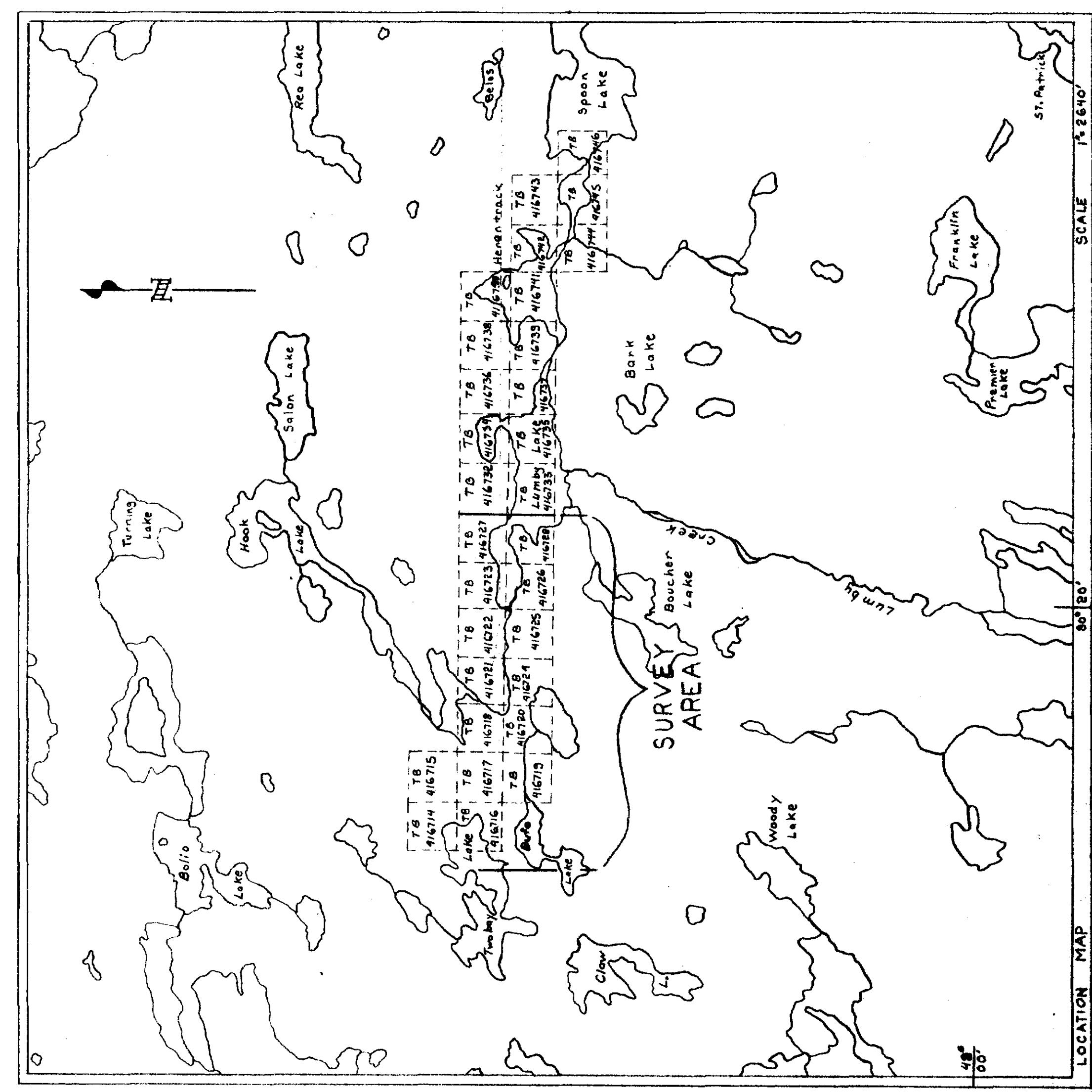
LE 11-200 APRIL 6 1975 * JUN 1975

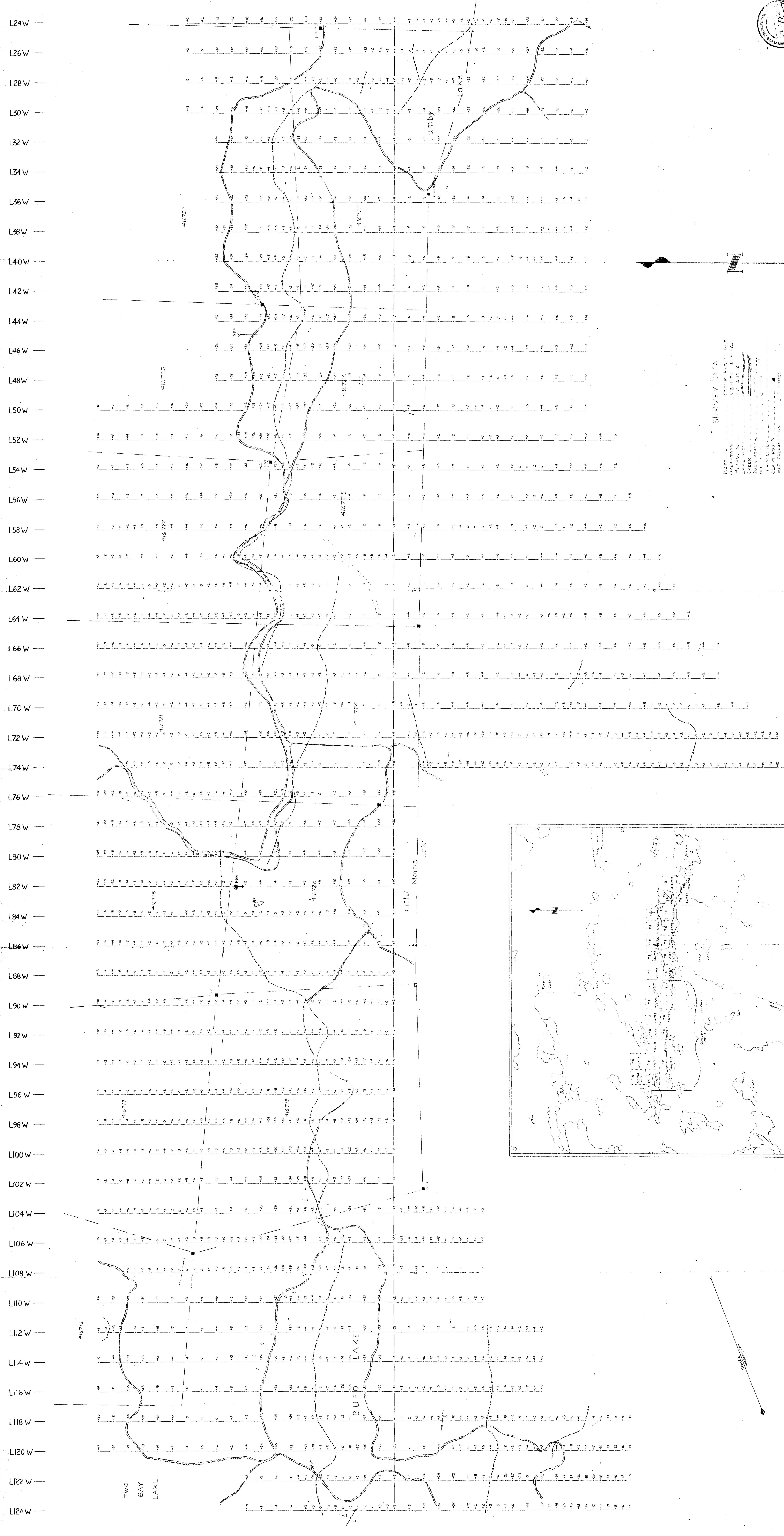
90037 2:1993 NORWAY LAKE



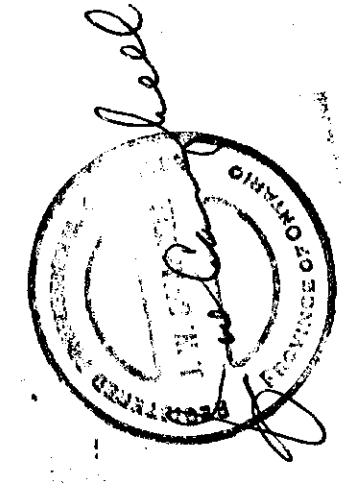
SURVEY DATA

KERR ADDISON MINES LTD.
ELECTROMAGNETIC - SURVEY
(CONTINUATION DIP ANGLE)
LUMBY LAKE O-19
AREA of NORWAY LAKE ONTARIO
SCALE 1:250,000





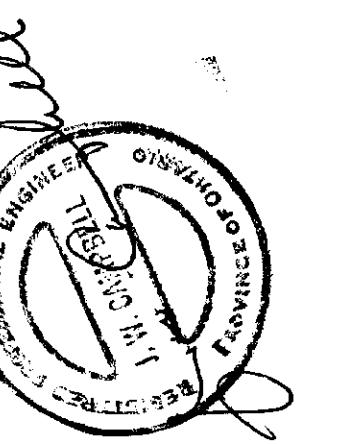
KERR ADDISON MINES LTD
ELECTROMAGNETIC - SURVEY
(RADEM DIP ANGLE)
LUMBY LAKE 0-19
AREA of NORWAY LAKE ONTARIO
SCALE 1"
JUNE 1975



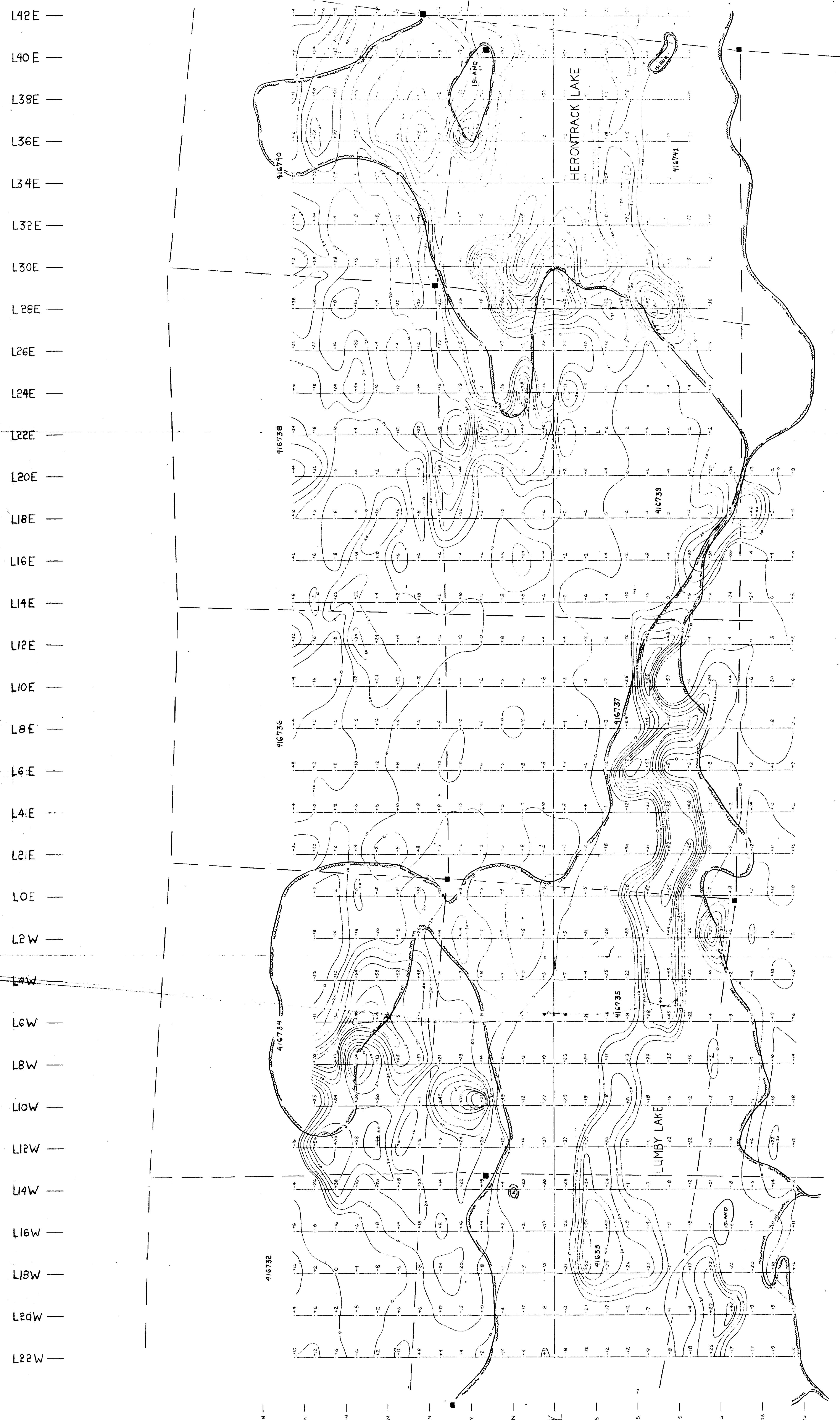
033SW0037 2.1993 NORWAY LAKE

KERR ADDISON MINES LTD.
ELECTROMAGNETIC - SURVEY
(CONTOUR DIP ANGLE)
LUMBY LAKE ONTARIO
AREA OF NORWAY LAKE
SCALE 1:250,000


2/1993



SURVEY DATA
INSTRUMENT
CRANE RADEN VLF
OPERATOR
K. BAILEY J.S. HARBOUR
LAKE SHORE
CREEK
BUSH ROADS
OLD LINES
CLIMB PASTS
MAP PREPARATION
T. JONES
DIP ANGLE CONTOUR



250



SURVEY DATA	
INSTRUMENT	-- C R O N E R A D E M V.L.F.
OPERATOR'S	-- K B A L L E Y J. S H A R B O T
METHOD	-- S I P A N G L E
LAKE SHORE	
CREEK	
BUSH ROADS	
OLD C.D.W.	
CLAIM LINES	
CLAIM POETS	
MAP PREPARATION	-- T T O N E S

A circular stamp from the Province of Ontario's Provincial Parks. The outer ring contains the text "PROVINCIAL PARKS" at the top and "ONTARIO" at the bottom. The center of the stamp features a stylized tree and the date "JULY 1975". A large, handwritten signature, possibly "John G. Diefenbaker", is written across the top of the stamp.

KERR ADDISON MINES LTD
ELECTROMAGNETIC SURVEY
BASIM DIP ANGEL