



52G14SW0010 52G14SW0020 PRESS LAKE

2.166

010

SCURRY-RAINBOW OIL LIMITED

ELECTROMAGNETIC

AND MAGNETIC

SURVEY

MOSS LAKE

WATCOMB-CLARKDON

AREA

Claims:

- ✓248400 - 248411 incl. Magnetometer sws
- ✓248450 - 248455 incl. JEM Survey 52 V4 u
- ✓248420 - 248457 incl. sws " " 20, 21, 32 V8 u
- ✓249101 - 249115 incl. sws " " 09, 09, 12, 13 V4 u
- ✓218923 - 218942 incl. JEM Survey sws 23-27 Yale U.

PROJECTS SECTION
TORONTO
RECEIVED
JAN 18 1971
7:18 AM 9:10 AM 12:12 PM 3:45 PM 5:58 PM

Lat. 49° - 46' 00" N
49° - 47' 00" N

Long. 91° - 12' 00" E
91° - 16' 00" E



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SUMMARY

During the period February 3 to February 25, 1970, an Electro-magnetic Survey was completed on 70 contiguous claims in the Moss Lake area, in northwestern Ontario - a Magnetic Survey was completed on 50 of these claims. (See listing on cover).

The most interesting magnetic expression is located in Block 'F' and north-easterly to block 'G'. This large magnetic high zone probably represents a diorite - quartz-diorite that has intruded the Keewatin. This particular area may be important as these intrusives are known to occur in or near the vicinity of all locations where metalliferous deposits have been observed in the area. Other isolated highs are noted in the immediate Moss Lake area.

The J.E.M. Survey indicated only minor conductivity over the entire grid system. The best response is located on lines 12 and 16 E immediately north of Moss Lake. However, the location of these anomalies is near a high tension line that parallels the indicated zone, so the anomaly here may be cultural rather than real.

GENERAL GEOLOGY

The consolidated rocks underlying the property are all Pre-Cambrian in age. The rocks consist of sheared meta-volcanics intruded in part by meta-Gabbro-diorite stocks. The northern part of the claim group has been mapped as massive to medium grained granite.

LOCATION AND ACCESS

The claim group is located approximately 4 miles southwest of Sturgeon Lake in the Patricia and Kenora Mining Divisions.

Access to the property is readily afforded by an abandoned railway spur line that cuts across the southeast part of the group.

LINE-CUTTING

91 miles of grid lines @ 400' intervals have been cut on the 70 claims.

The line-cutting was completed by Mr. G. Potter - Kirkland Lake Ontario - Contractor.

METHOD AND INTERPRETATION OF ELECTROMAGNETIC RESULTS

The survey was carried out with a J.E.M. unit, manufactured by Crone Geophysics of Toronto, Ontario.

The J.E.M. unit is a battery powered unit employing 2 coils and operating at frequencies of 1800 and 480 C.P.S. This method is independent of receiver to transmitter alignment, distance of separation or elevation differences even on extremely rough terrain.

Electromagnetic readings were taken every 100' along pre-cut lines spaced 400' apart. In areas of recorded significant conductivity, readings were taken every 50'. High frequency readings were plotted on the right of the grid line, low frequency readings on the left.

Conductivity is measured from the ratio of maximum resultant angles of the high and low frequency employed.

The shape and position of the conductor can be measured from a profile of the J.E.M. results.

METHOD AND INTERPRETATION OF MAGNETOMETER RESULTS

The magnetic survey was carried out with a M-700 magnetometer which is a vertical field magnetometer employing the fluxgate system.

The instrument is self-levelling and a self cancelling circuit permits rapid, accurate measurements of the earth's magnetic field from a meter without adjustments or calculations. The instrument can be adjusted electronically to measure vertical fields from plus 100,000 gammas to minus 100,000 gammas; hence there is no need for auxillary magnets or complicated latitude adjustments.

Magnetic readings were taken every 100' and 50' intervals, where required on lines spaced 400' apart. Base-line stations were recorded and used throughout the survey for diurnal correction. The magnetics are expressed by magnetic contours on the accompanying maps.

RESULTS AND RECOMMENDATIONS

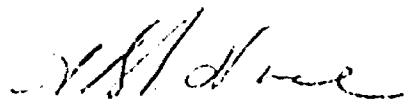
Only minor conductivity was recorded near the entire grid system. The best recorded area is located immediately north of Moss Lake, but may be cultural rather than real; although it is noted that isolated magnetic highs occur near the recorded conductivity.

The best magnetic expression appears on Block 'F' and the north-eastern part of Block 'G'.

Recommendations

The areas described above should be prospected and mapped. Sampling of sulphide occurrences could be done rapidly and inexpensively utilizing a pack-sack drill, as abundant outcrops occur in the area.

Respectfully submitted,



D.R.S. Doal - Geophysicist

Scurry-Rainbow Oil Limited

APPENDIX

List of Maps Included With Report

2 - Claim maps	Stur. 2-3-2	1" = 2640'
2 - Block Plan/Cut Lines	Stur. 2-6-2	1" = 1320'
2 - JEM Survey Block 'B'	Stur. 4-2-3	1" = 200'
2 - Mag Survey Block 'B'	Stur. 4-1-3	1" = 200'
2 - JEM Survey Block 'E'	Stur. 4-2-6	1" = 200'
2 - Mag Survey Block 'E'	Stur. 4-1-6	1" = 200'
2 - JEM Survey Block 'F'	Stur. 4-2-7	1" = 200'
2 - Mag Survey Block 'F'	Stur. 4-1-7	1" = 200'
2 - JEM Survey Block 'G'	Stur. 4-2-8	1" = 200'
2 - Mag Survey Block 'G'	Stur. 4-1-8	1" = 200'
2 - JEM Survey Block 'J'	Stur. 4-2-10	1" = 200'
2 - Mag Survey Block 'J'	Stur. 4-1-10	1" = 200'
2 - JEM Survey Block 'K'	Stur. 4-2-11	1" = 200'
2 - Mag Survey Block 'K'	Stur. 4-1-11	1" = 200'
2 - JEM Survey Block 'L'	Stur. 4-2-12	1" = 200'



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SPECIAL PROVISION
ASSESSMENT WORK DETAILS

Type of Survey Electro-magnetic
A separate form is required for each type of survey

Chief Line Cutter or Contractor G. Potter, Kirkland Lake, Ontario
Name Address

Party Chief A. L. Kearney, 539 - 8 Avenue S.W., Calgary 2, Alberta
Name Address

Consultant _____
Name Address

COVERING DATES Line Cutting December 20, 1969 to January 8, 1970

Field Geology or Geophysics February 3 to February 25, 1970

Office February/March 1970

INSTRUMENT DATA Make, Model and Type J. E. M. Crone

Scale Constant or Sensitivity 480 C. P. S. 1800 C. P. S.
Or provide copy of instrument data from Manufacturer's brochure.

Total Number of Stations Within Claim Group 2800 + Number of Miles of Line cut Within Claim Group 53

ASSESSMENT WORK CREDITS REQUESTED
Geological Survey _____ Days per Claim
Geophysical Survey 40 Days per Claim

MINING CLAIMS TRAVERSED
Areas of claims not covered
1/4 1/4 1/3
Pa. 248410, 248411, 249101
24820-24837 inclusive 249102, 249103
249101-249116 inclusive K. 249104
218923-218942 inclusive * 20 days only for Pa. 249103
TOTAL 70 claims

DATE October 21, 1970 SIGNED A. Adone

Special provision credits do not apply to Radiometric Surveys.

SPECIAL PROVISION
ASSESSMENT WORK DETAILS

Type of Survey Magnetic A separate form is required for each type of survey

Chief Line Cutter or Contractor G. Potter, Kirkland Lake, Ontario
Name Address

Party Chief A. L. Kearney, 539 - 8 Avenue S.W., Calgary 2, Alberta
Name Address

Consultant _____
Name Address

COVERING DATES Line Cutting December 20, 1969--January 8, 1970
 Field Geology or Geophysics February 3--February 22, 1970
 Office February/March 1970

~~INSTRUMENT DATA~~ Make, Model and Type McPhar M-700A

Scale Constant or Sensitivity 10 gammas Psd Range \pm 100,000 gammas
 Or provide copy of instrument data from Manufacturer's brochure.

Total Number of Stations Within Claim Group 3500+ Number of Miles of Line cut Within Claim Group 38

ASSESSMENT WORK CREDITS REQUESTED Geological Survey 20 Days per Claim
 Geophysical Survey 20 Days per Claim

MINING CLAIMS TRAVERSED

248402--248411 inclusive $\frac{1}{3}$ $\frac{1}{3}$ $\frac{1}{3}$
244350--244355 inclusive Pa. 248404, 249101, 249102
 $\frac{4}{4}$ $\frac{4}{4}$ $\frac{1}{3}$ K. 249104
24820--24837 inclusive
249101--249116 inclusive

* 10 days only for Pa. 249102

TOTAL 50 claims

DATE October 21, 1970 SIGNED [Signature]

Special provision credits do not apply to Radiometric Surveys.

AREA CODE — 416
TELEPHONE — 365-6918



ONTARIO

WHITNEY BLOCK,
QUEEN'S PARK,
TORONTO 182 ONT.

DEPARTMENT OF MINES AND NORTHERN AFFAIRS
MINING LANDS BRANCH

May 17th, 1971.

Mr. W.A. Buchan,
Mining Recorder,
Court House,
Sioux Lookout, Ontario.

Re: Mining Claims K. 218923 et al,
Valora and Unika Stations,
Press Lake and S.W. Part of Sturgeon Lake Areas,
File No. 2.166

Dear Sir:

The Geophysical (Magnetometer and Electromagnetic) assessment work credits as listed with my Notice of Intent dated April 30th, 1971, have been approved as of the date above. Please inform the recorded holder and so indicate on your records.

Yours very truly,

Fred W. Matthews,
Supervisor,
Projects Section.

c.c. Scurry-Rainbow Oil Ltd.,
Suite 539 - 8th Ave., S.W.
Calgary 2, Alberta.

c.c. Mr. H. L. Bell,
Mining Recorder,
808 Robertson Street,
Kenora, Ontario.

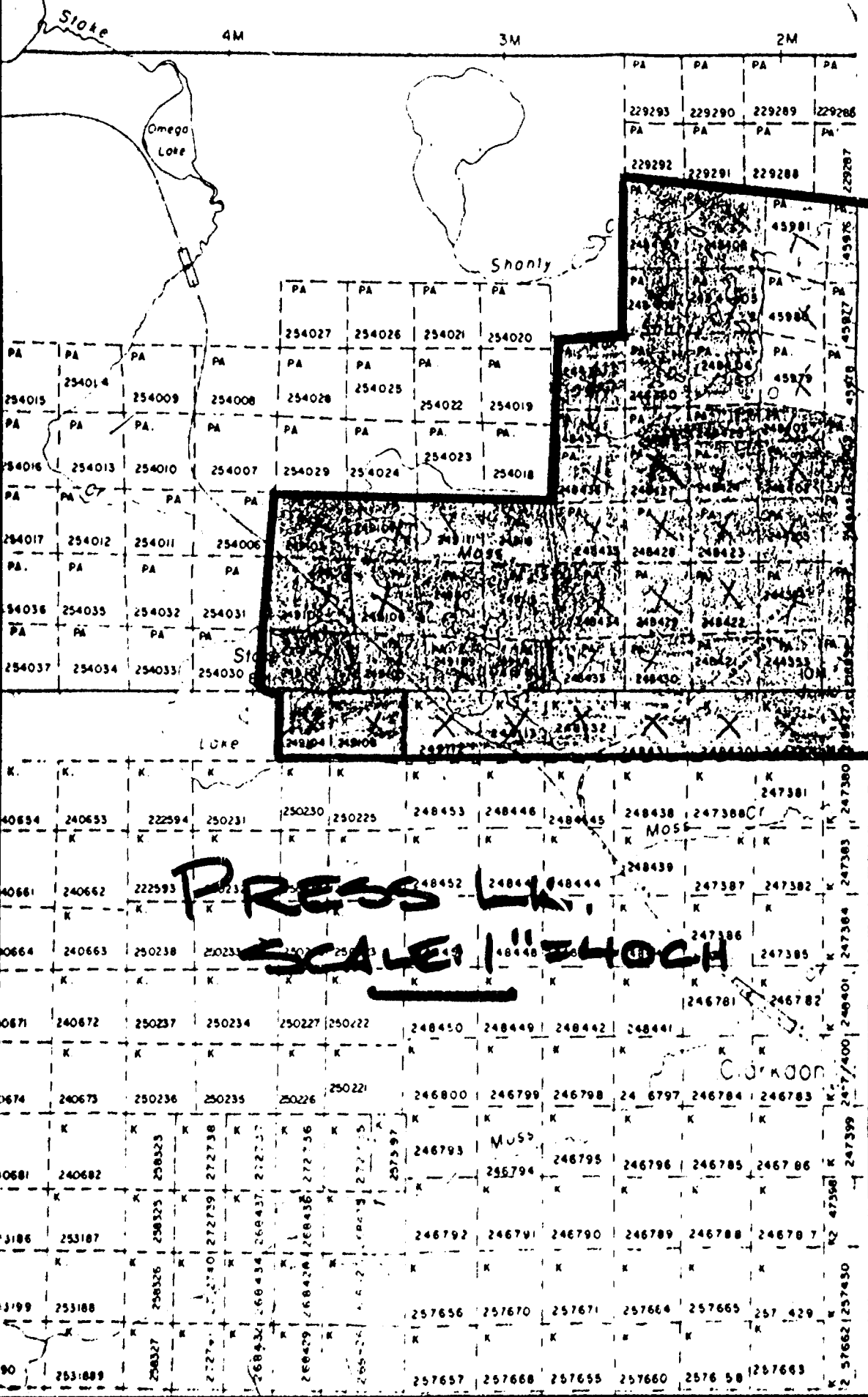
c.c. Mr. H. L. King,
Resident Geologist,
808 Robertson Street,
Kenora, Ontario. ✓

SEE ATTACHED
FOLDER

FWM/nr

BLOCK No 8

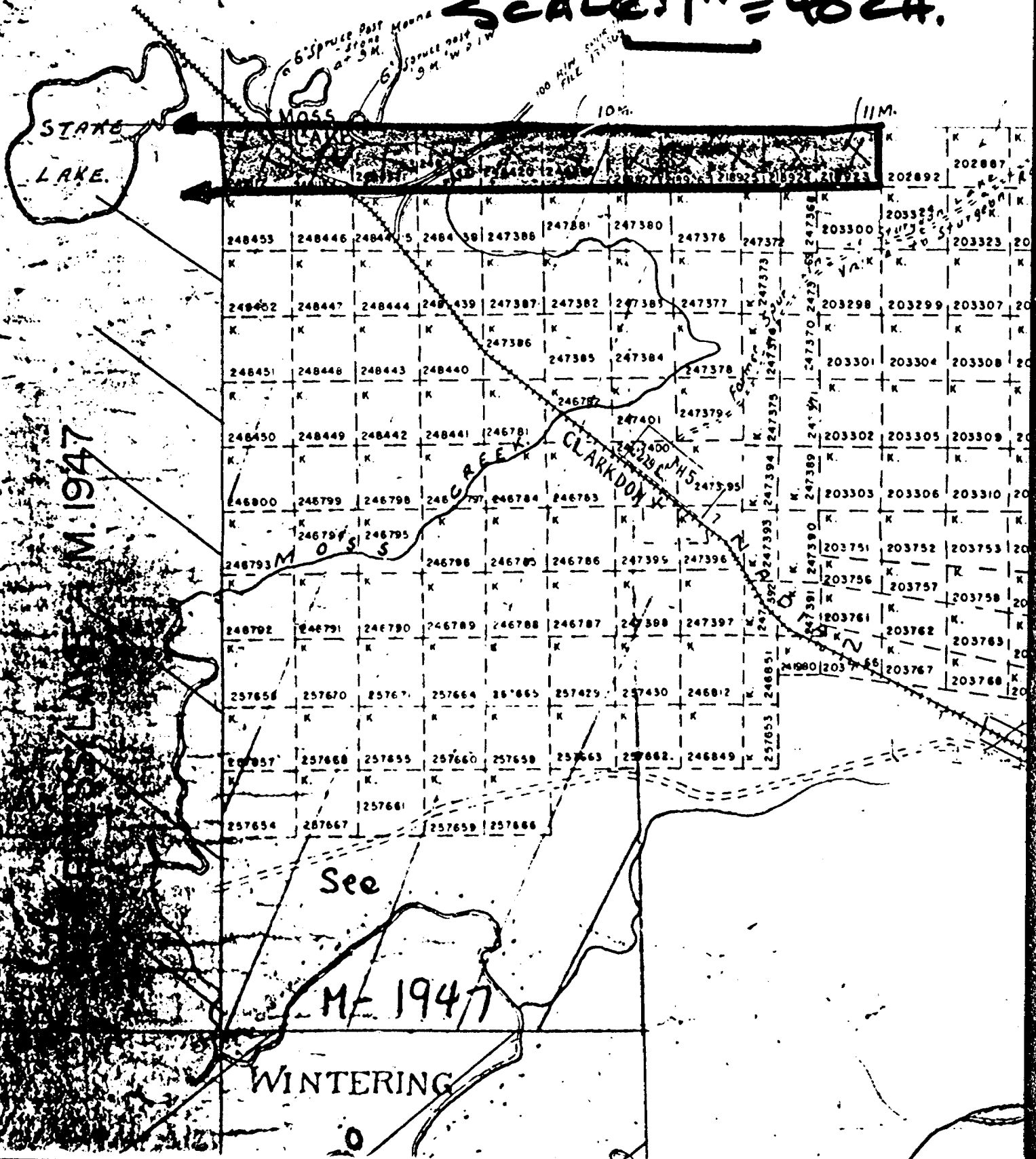
AB TIBI POWER AND PAPER
 COMPANY LIMITED
 CLS - 115818 69,074 Acres



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VALORA LK.

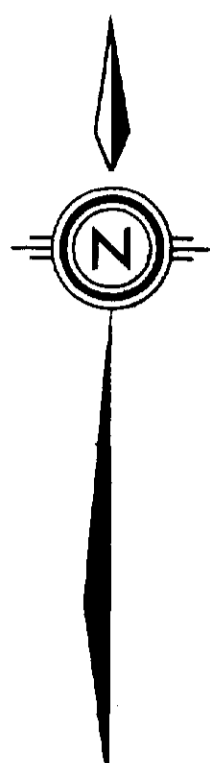
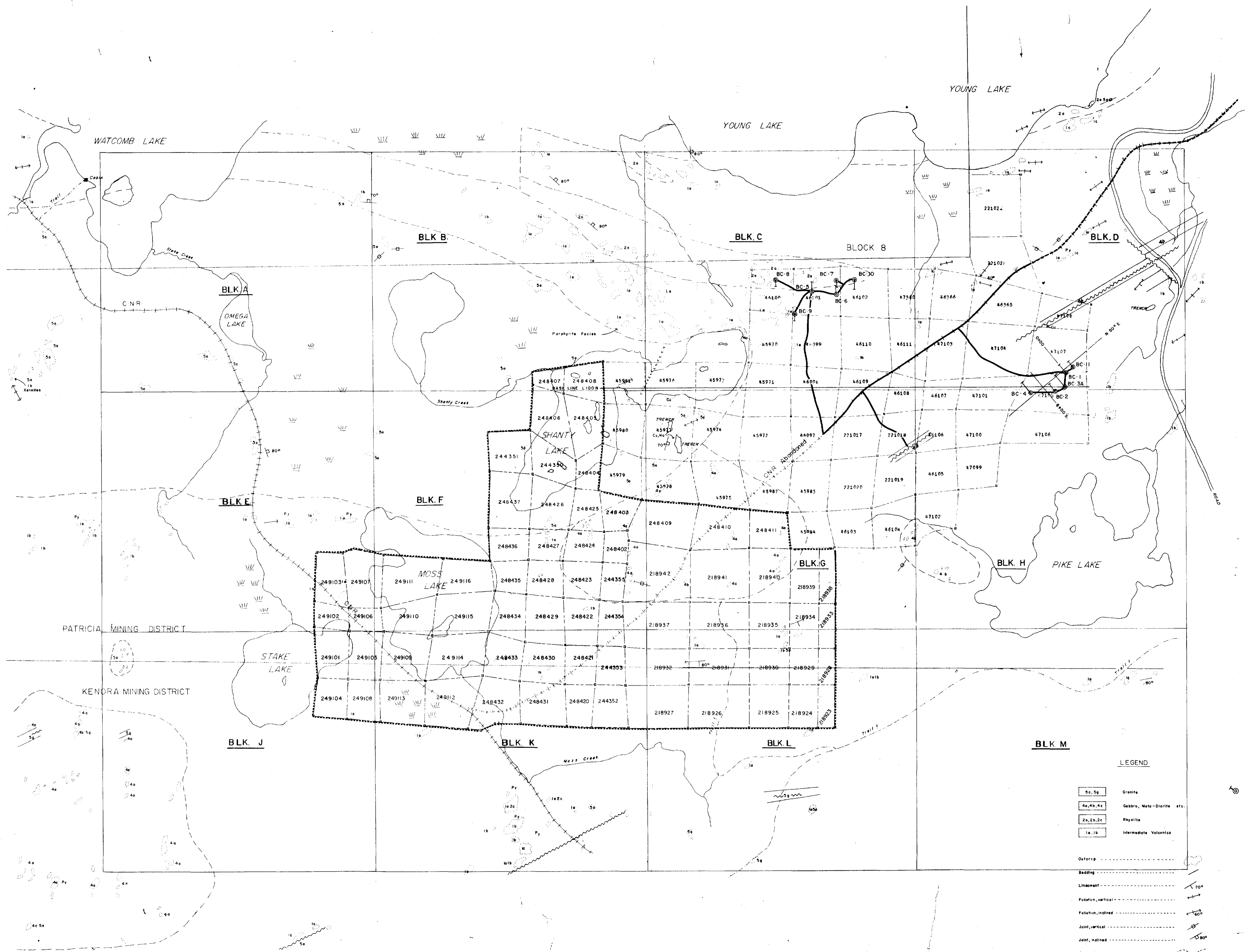
SCALE: 1" = 40 CH.



FOR ADDITIONAL
INFORMATION

SEE MAPS:

52G/14SW-0020 #4-#15



SCALE 1" = 1320'

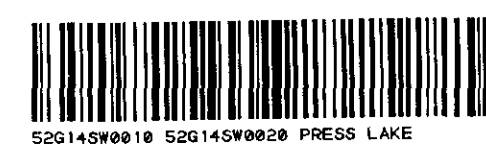


LEGEND

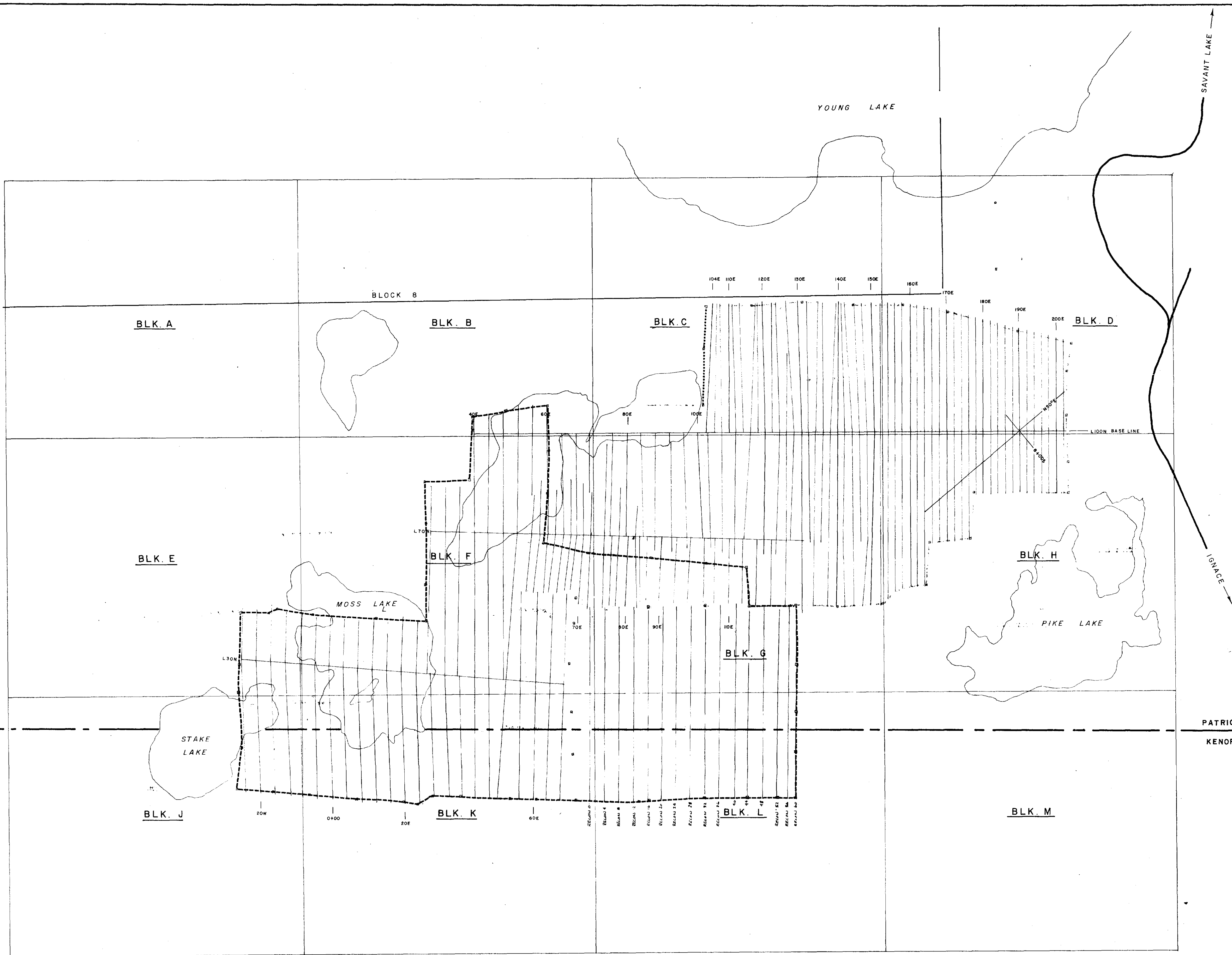
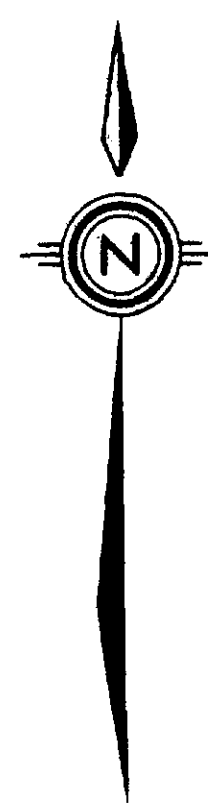
- 5c, 5y Granite
- 4a, 4b, 4c Gabbro, Meta-Diorite etc.
- 2a, 2b, 2c Rhyolite
- 1a, 1b Intermediate Volcanics
- Outcrop
- Bedding
- Lineament
- Foliation, vertical
- Foliation, inclined
- Joint, vertical
- Joint, inclined
- Contact
- Fault
- Mushey
- ASSESSMENT AREA

⊙ - Completed DDH.

52G/14SW-0020-#1.



DRAWN PW	SCALE 1" = 1320'	SCURRY-RAINBOW OIL LTD.	CLAIMS MAP & GEOLOGY
TRACED	DATE JAN/70	BRIARGCOURT OPTION	WATCOMB LAKE & CLARKSTON AREA
APPROVED		STURGEON LAKE, ONT.	FILE NO. STUR. 2-3-2



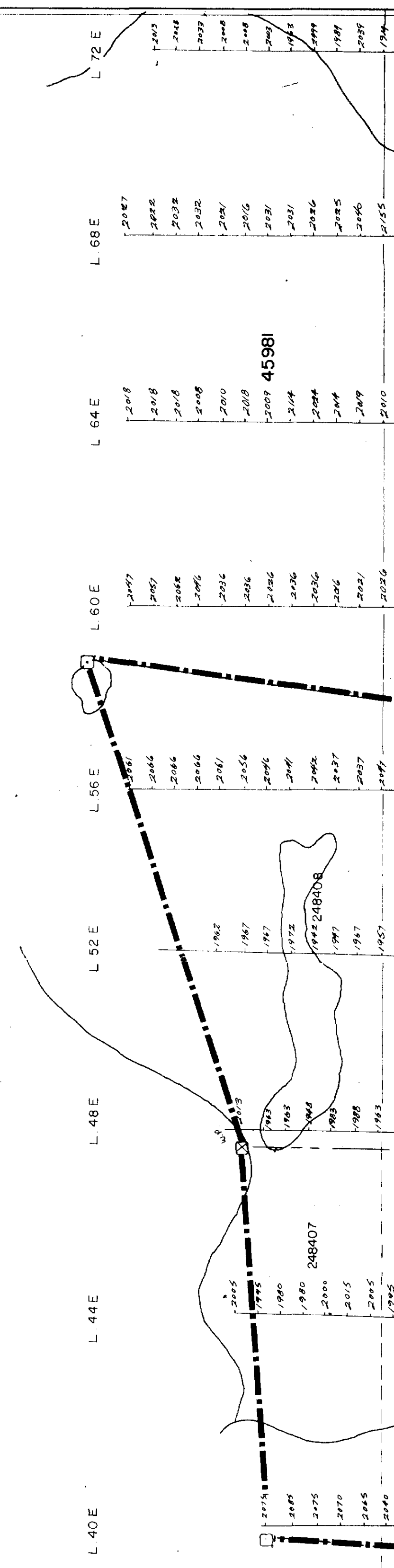
PATRICIA MINING DISTRICT
KENORA MINING DISTRICT

ASSESSMENT AREA -----

52G/14SW-0020-#2.



DRAWN R.M.	SCALE 1" = 1320'	SCURRY-RAINBOW OIL LTD.	MASTER BLOCK PLAN & CUT LINES
TRACED	DATE MAR. 1970	BRIARCOURT OPTION	
APPROVED		STURGEON LAKE, ONT.	FILE NO. STUR 2-6-2

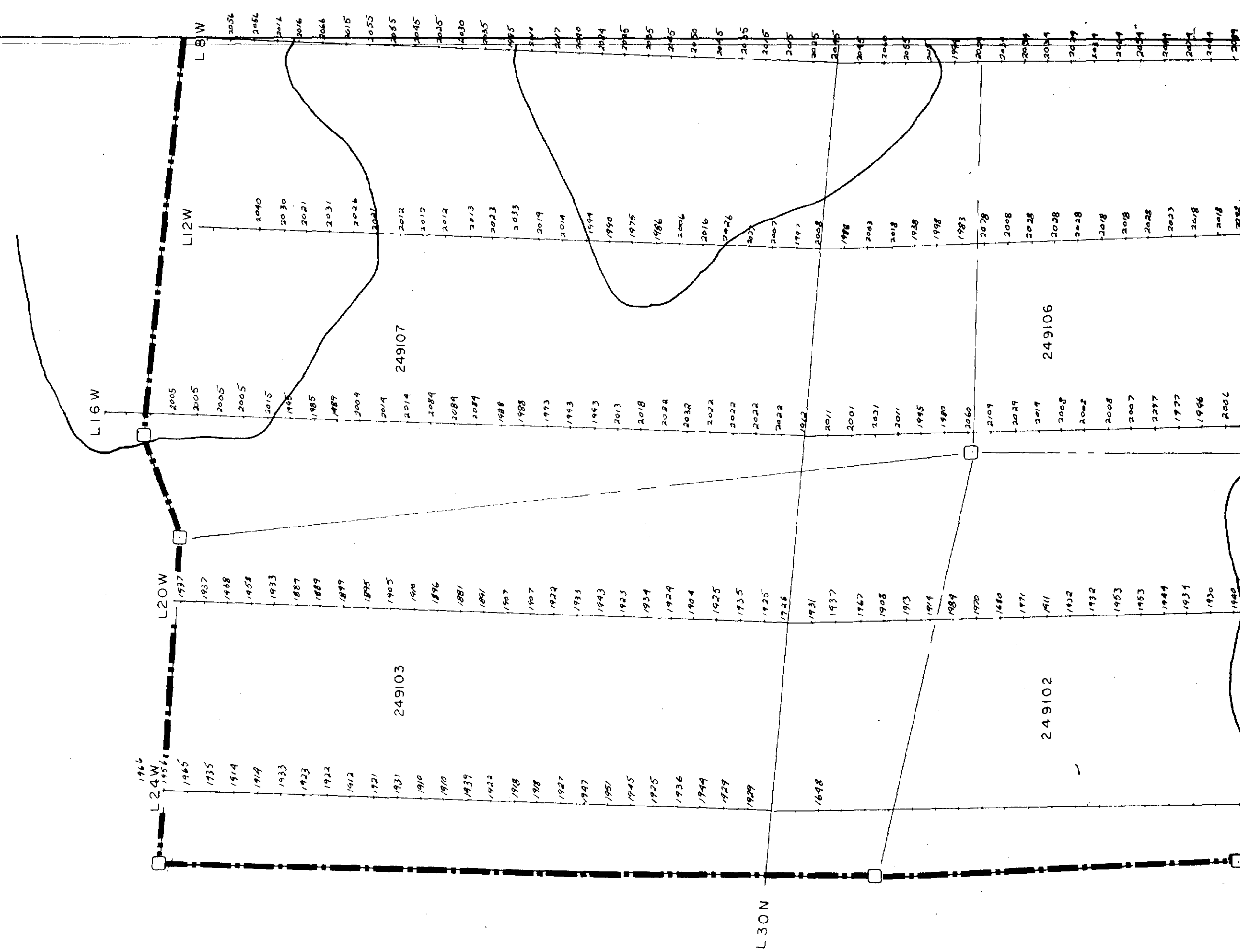


SCALE 1" = 200'
DATE: March 1970
DRAWN: [Signature]
TRACED: [Signature]
APPROVED: [Signature]

529/145W-0020#3

SCURRY-RAINBOW OIL LTD.
BRIARCOURT - OPTION
BLOCK - B
MAGNETOMETER SURVEY
North - Line 40E to L 72E.
FILE NO. STUR. 4-1-3





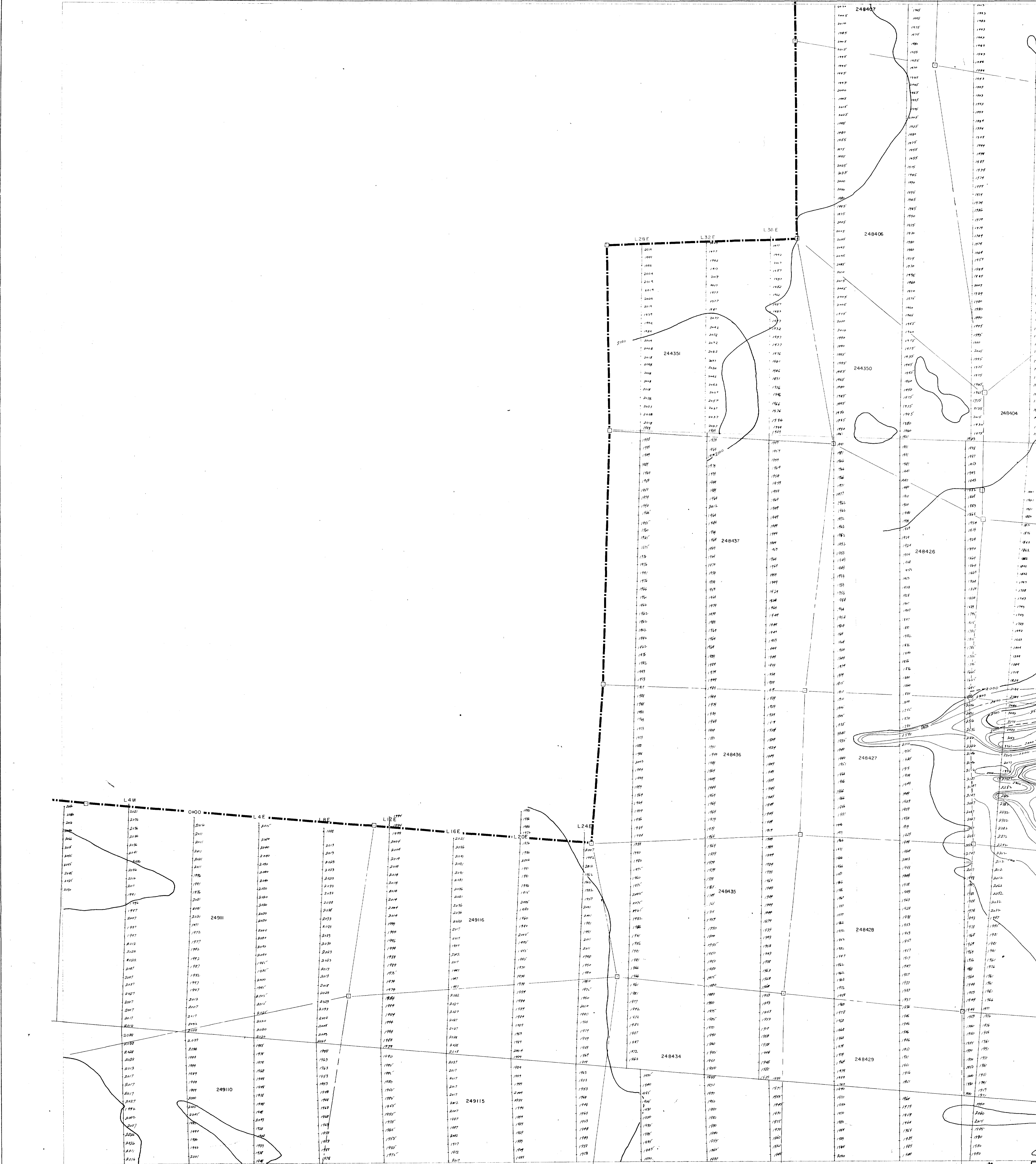
SCURRY-RAINBOW OIL LTD.
MAGNETOMETER SURVEY
L24 W — L8 W
FILE NO. S3112 4-1-1-46

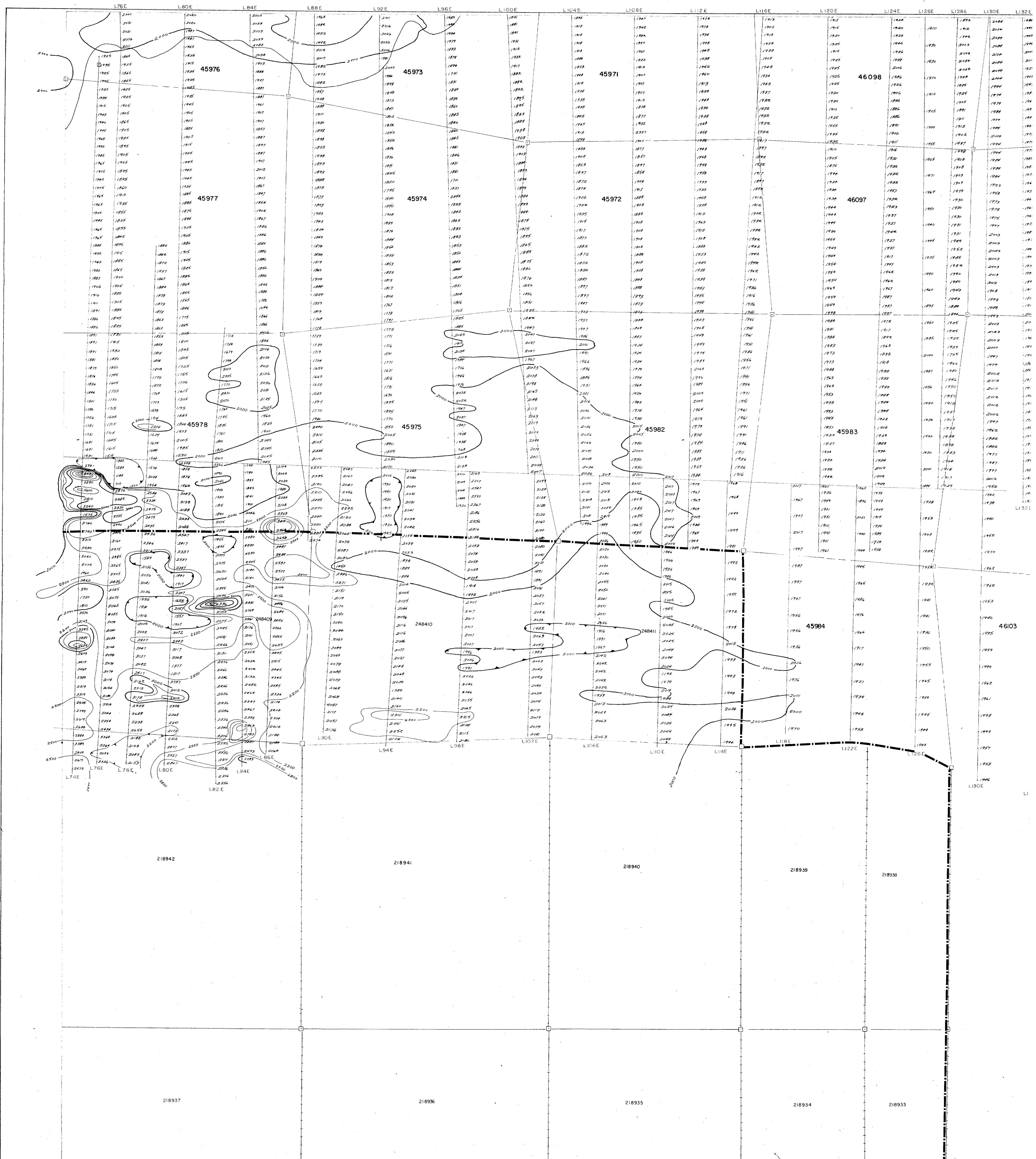
SCALE 1:200
DATE MAR 70
BLOCK E

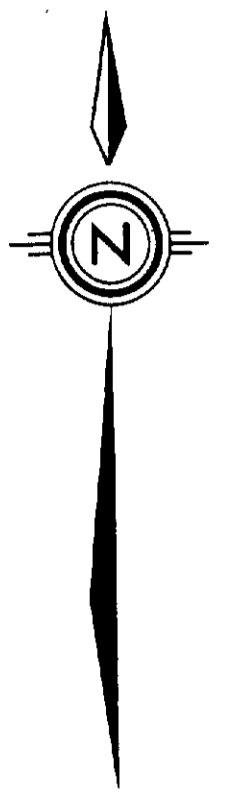
DRAWN BY
TJACED
APPROVED

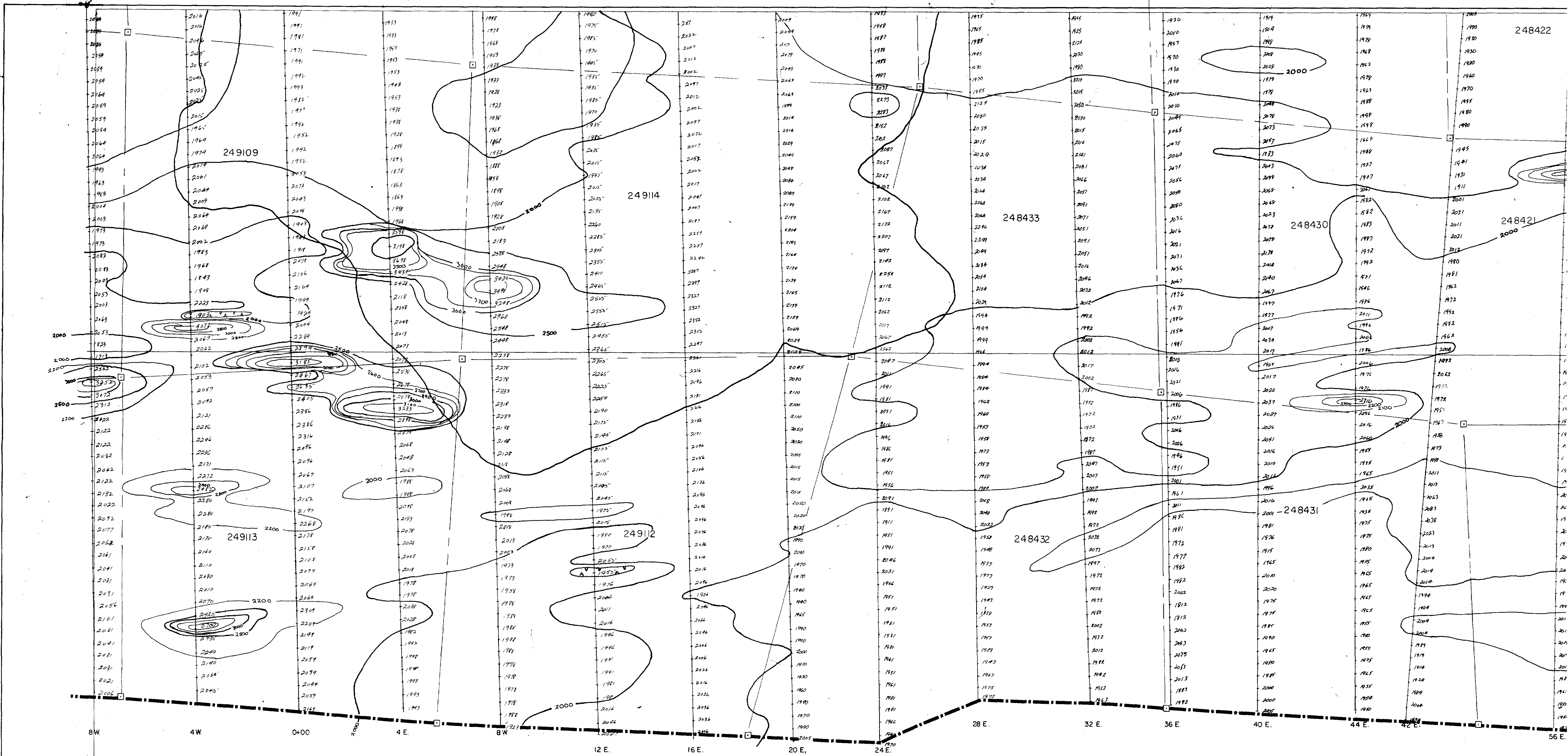
4.
529/1450-0020-

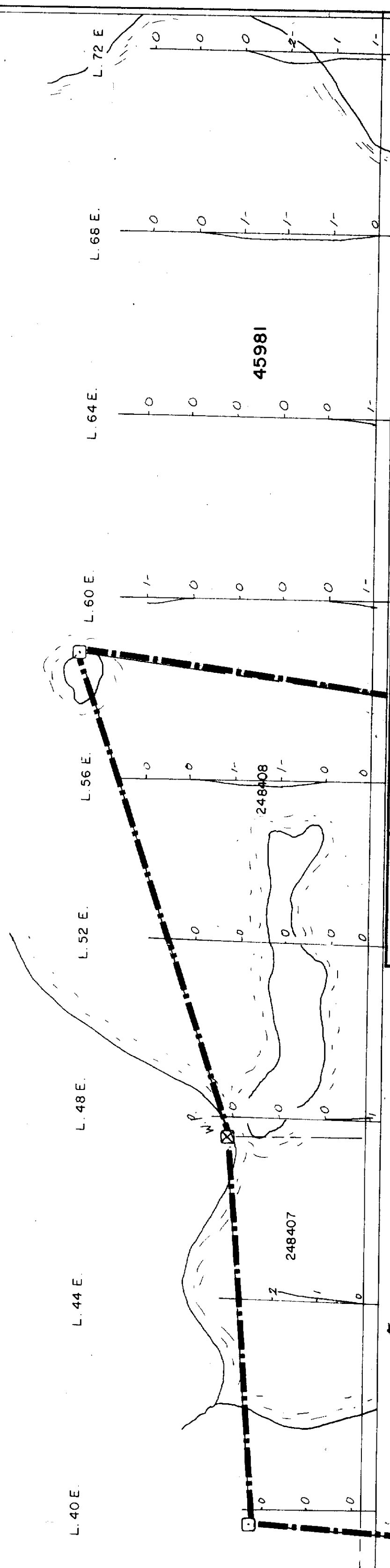
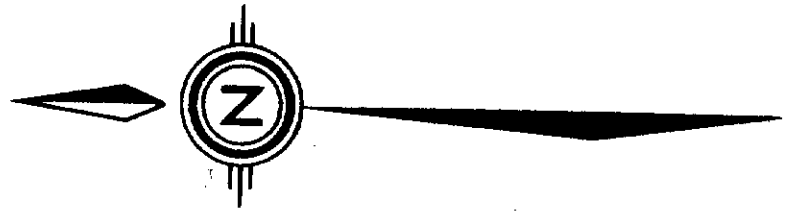
230











BASE LINE - 100 N

5261484-0020-9

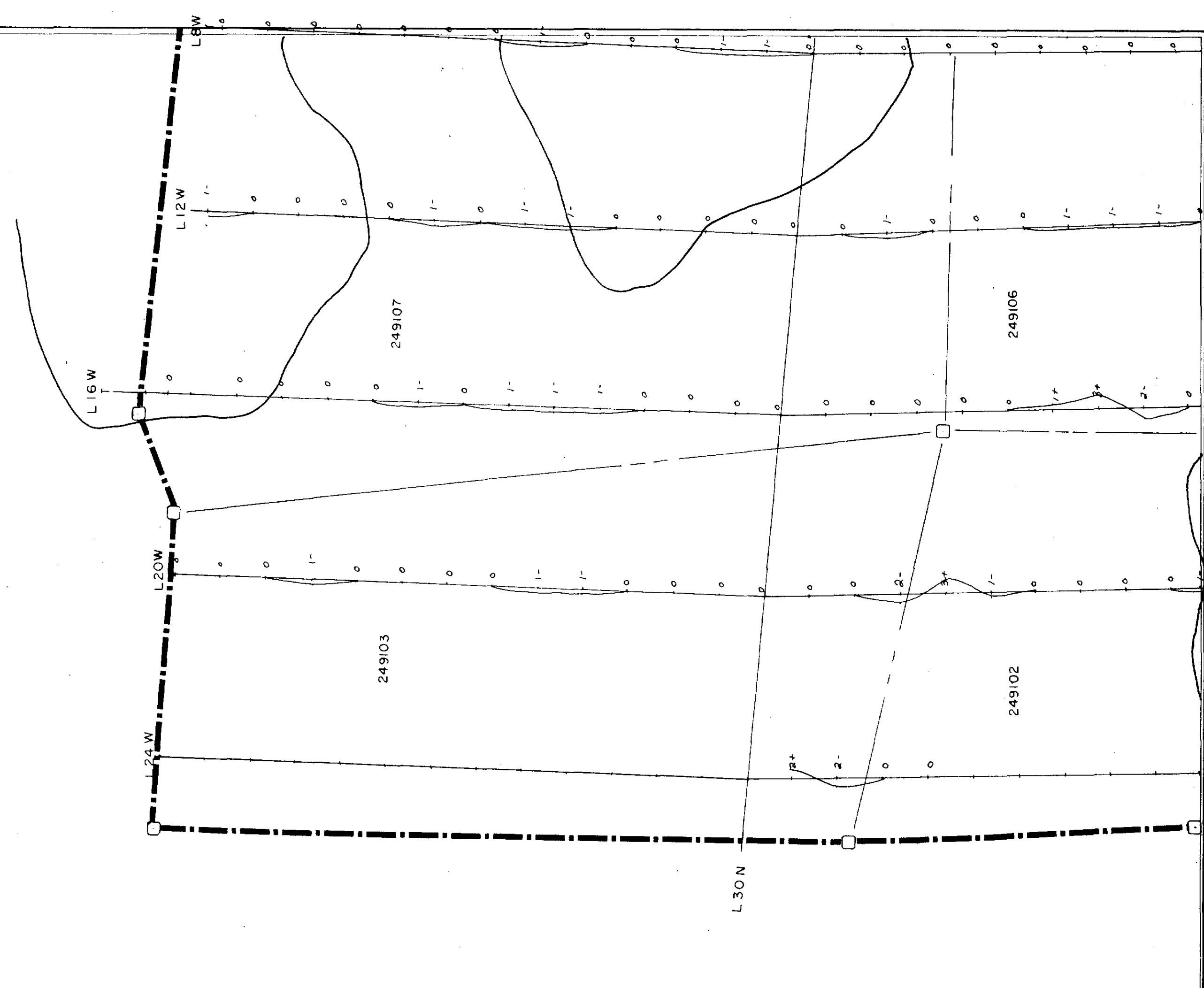
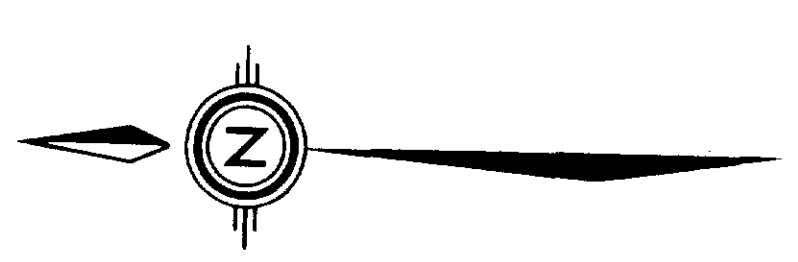
1" = 20'
HIGH FREQ. - RIGHT
LOW FREQ. - LEFT

SCALE 1" = 200'
DATE March/70
DRAWN
TRACED
APPROVED

SCURRY-RAINBOW OIL LTD.
BRIARCOURT - OPTION
BLOCK B - PLAN

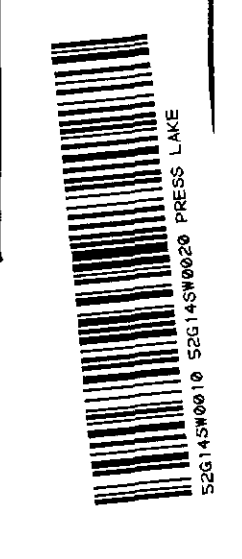
JEM SURVEY
North - line 40 E. to L 72 E
FILE NO. STUR. 4-2-3





DRAWN P.W.	SCALE 1:200'	SCURRY-RAINBOW OIL LTD.	J.E.M. SURVEY
TRACED	DATE MAR/70	STURGEON LAKE, ONTARIO	L 24 W — LBW
APPROVED		BLOCK E	FILE NO. ST. UZ. 4-2-4

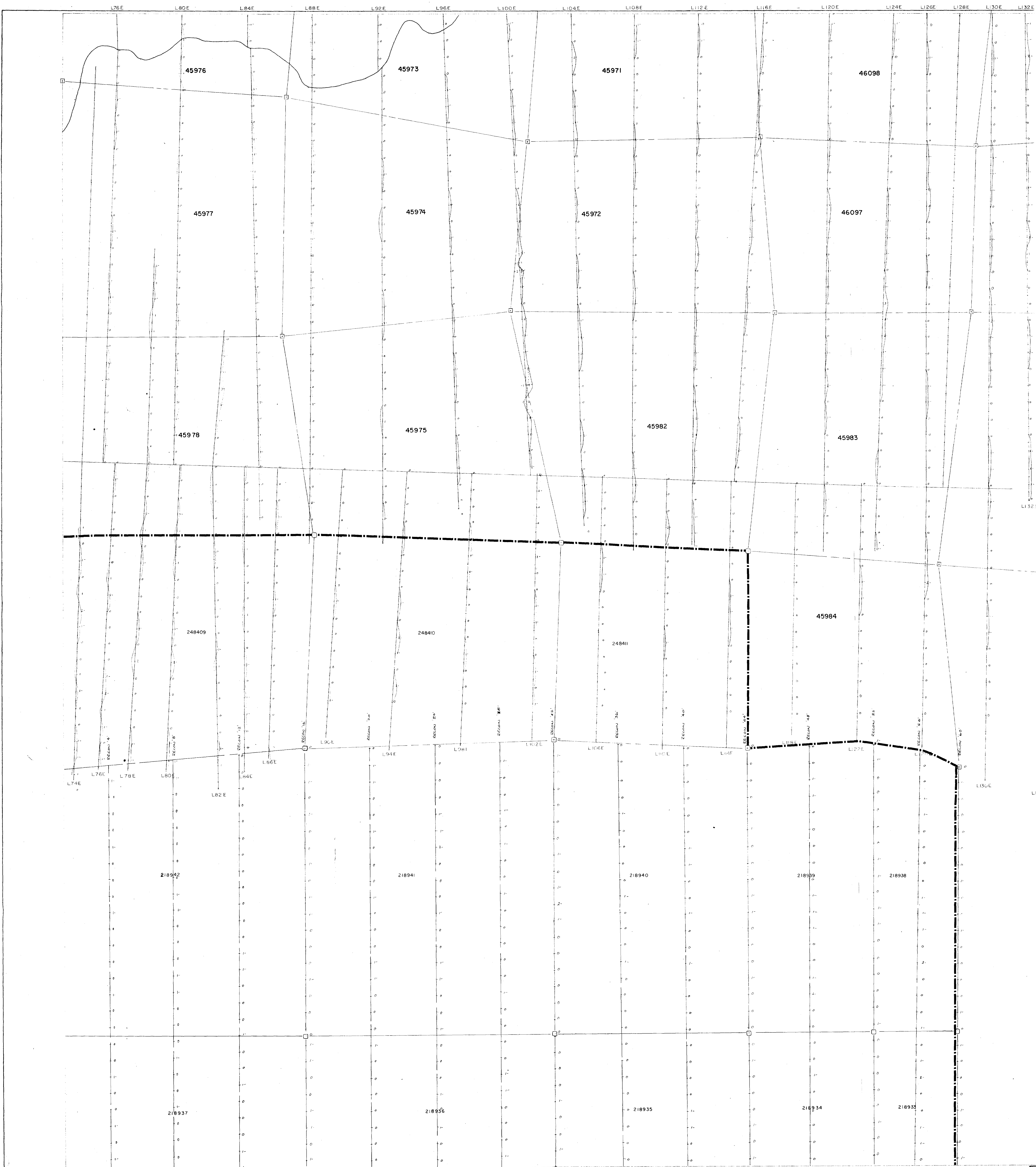
526/145W-0020-10





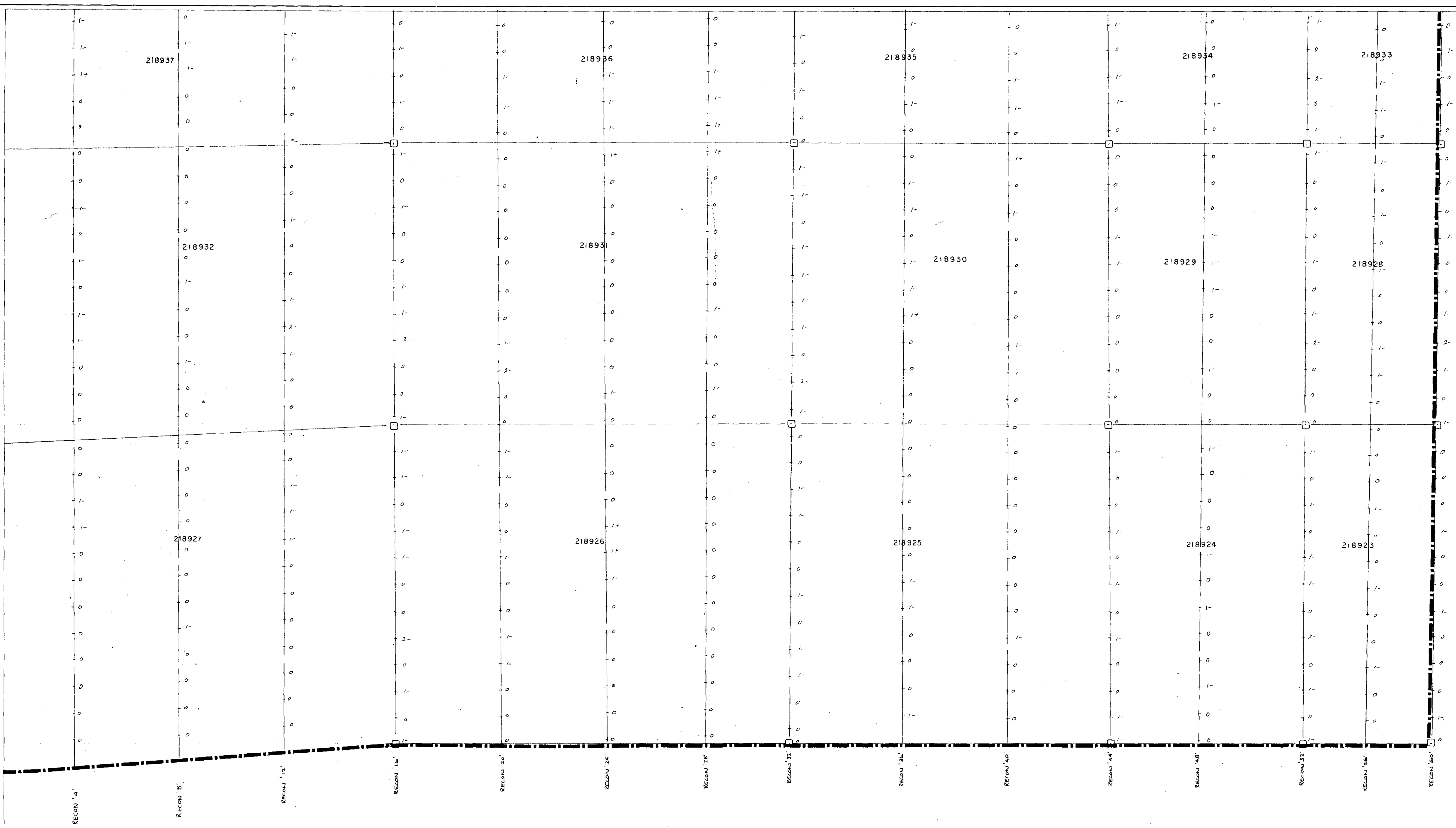
52G/145W-0020#11.

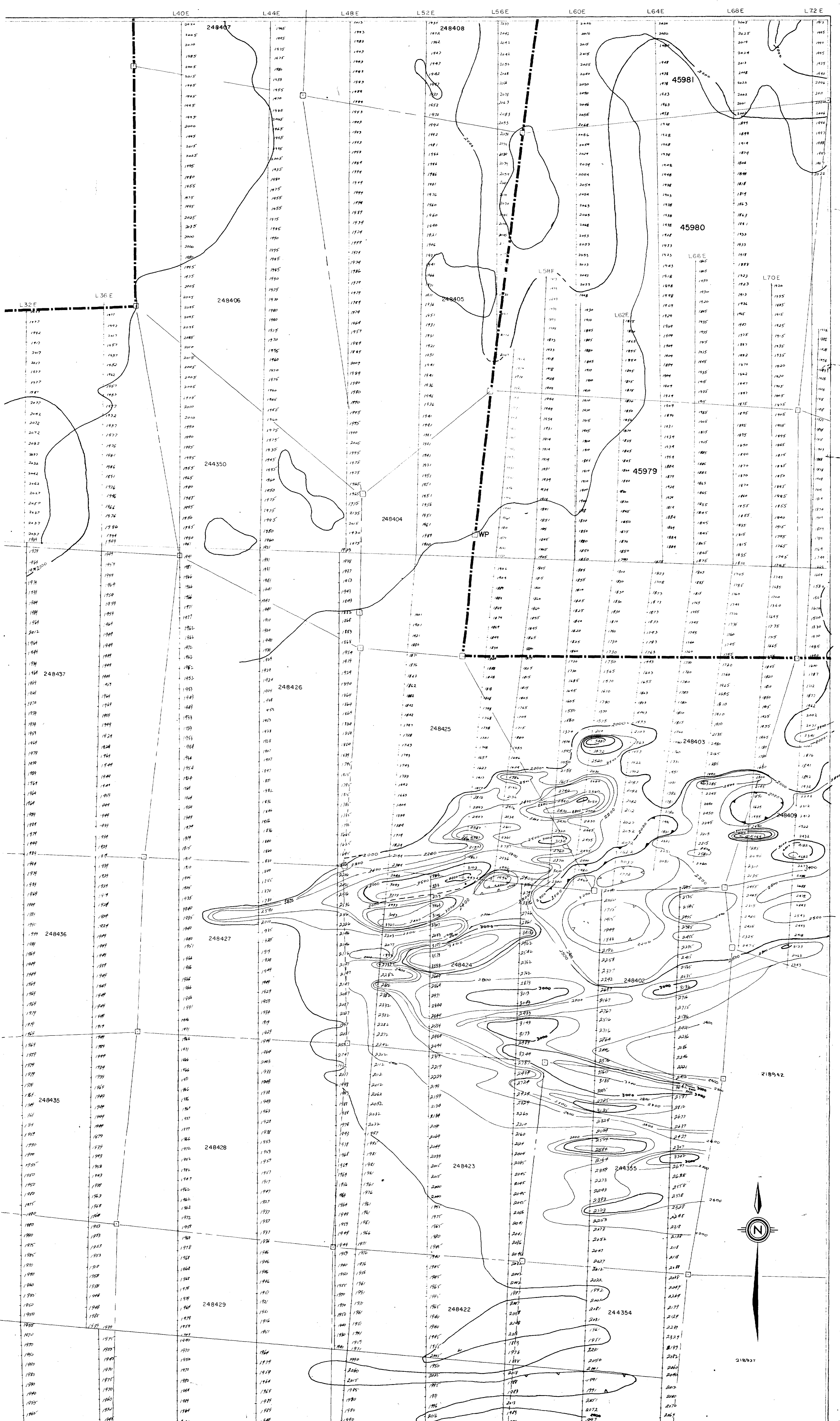






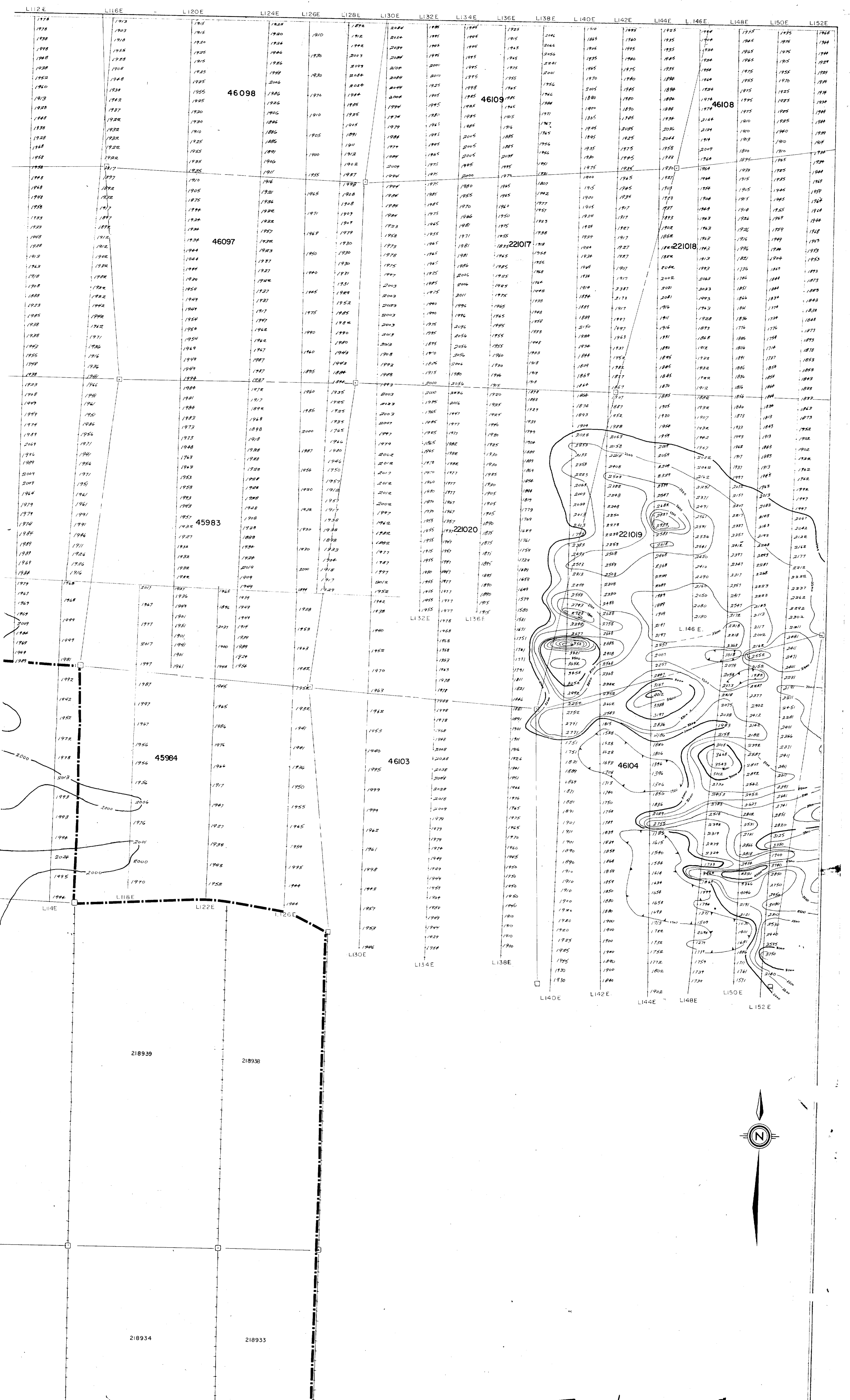






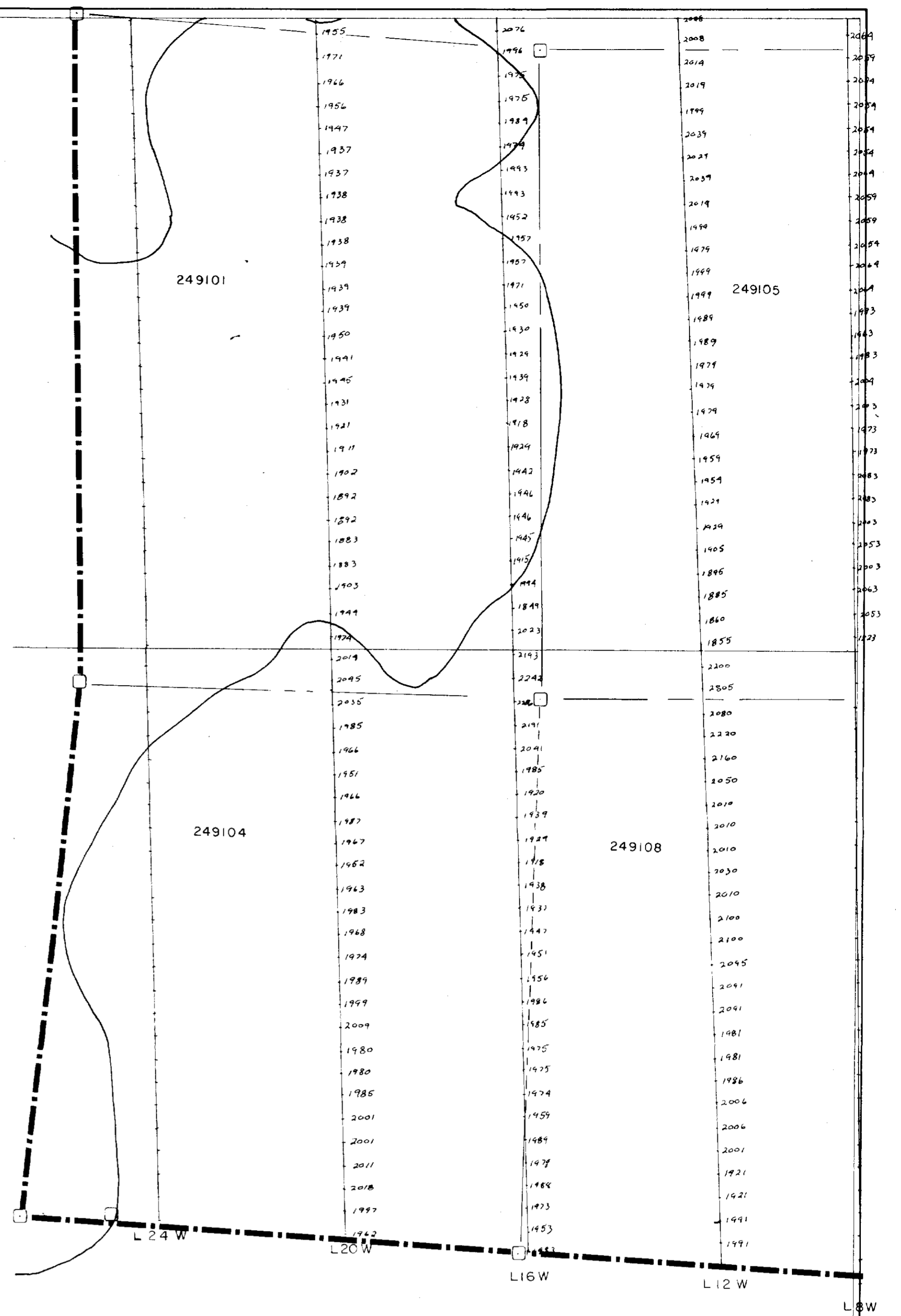
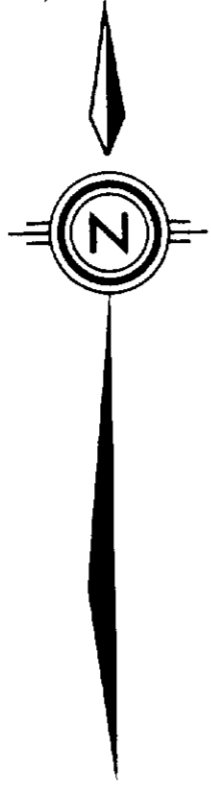
52G/14SW-0020-5

DRAWN PW	SCALE 1"=200'	SCURRY-RAINBOW OIL LTD.	
TRACED	DATE MAR / 70	BRIARCOURT	OPTION
APPROVED [Signature]		BLOCK F	PLAN
		MAG. SURVEY South - Line 28E. to L. 72 E.	
		FILE NO. STUR - 4-1-7	



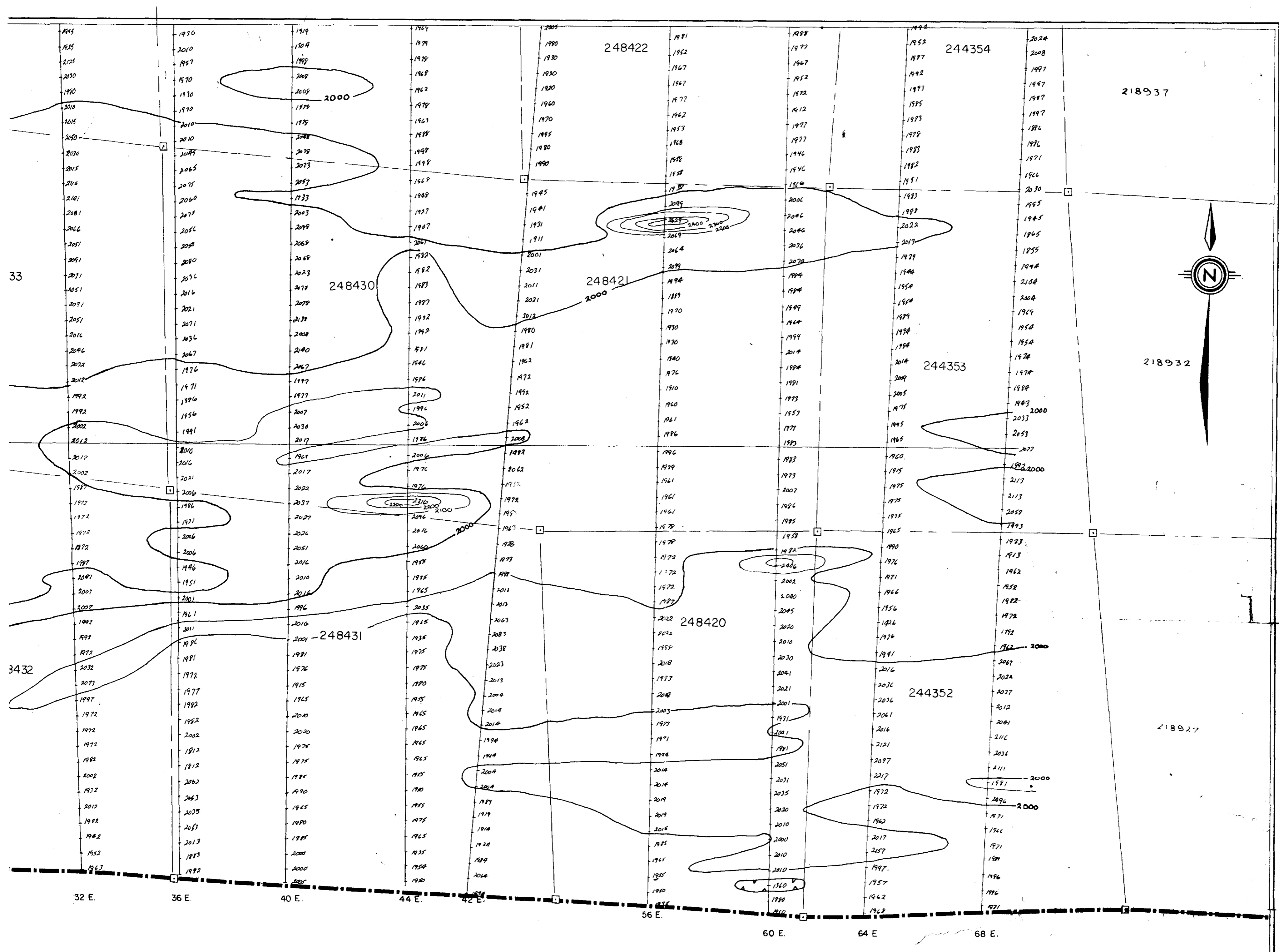
52G/14SW-0020*6.

DRAWN PW	SCALE 1"=200'	SCURRY-RAINBOW OIL LTD.	
TRACED	DATE MAR/70	BRIARCOURT	OPTION
APPROVED <i>[Signature]</i>		BLOCK G	PLAN
		MAGNETOMETER SURVEY SOUTH. L. 74 E. to L. 152 E.	
		FILE NO. STUR: 4-1-8	



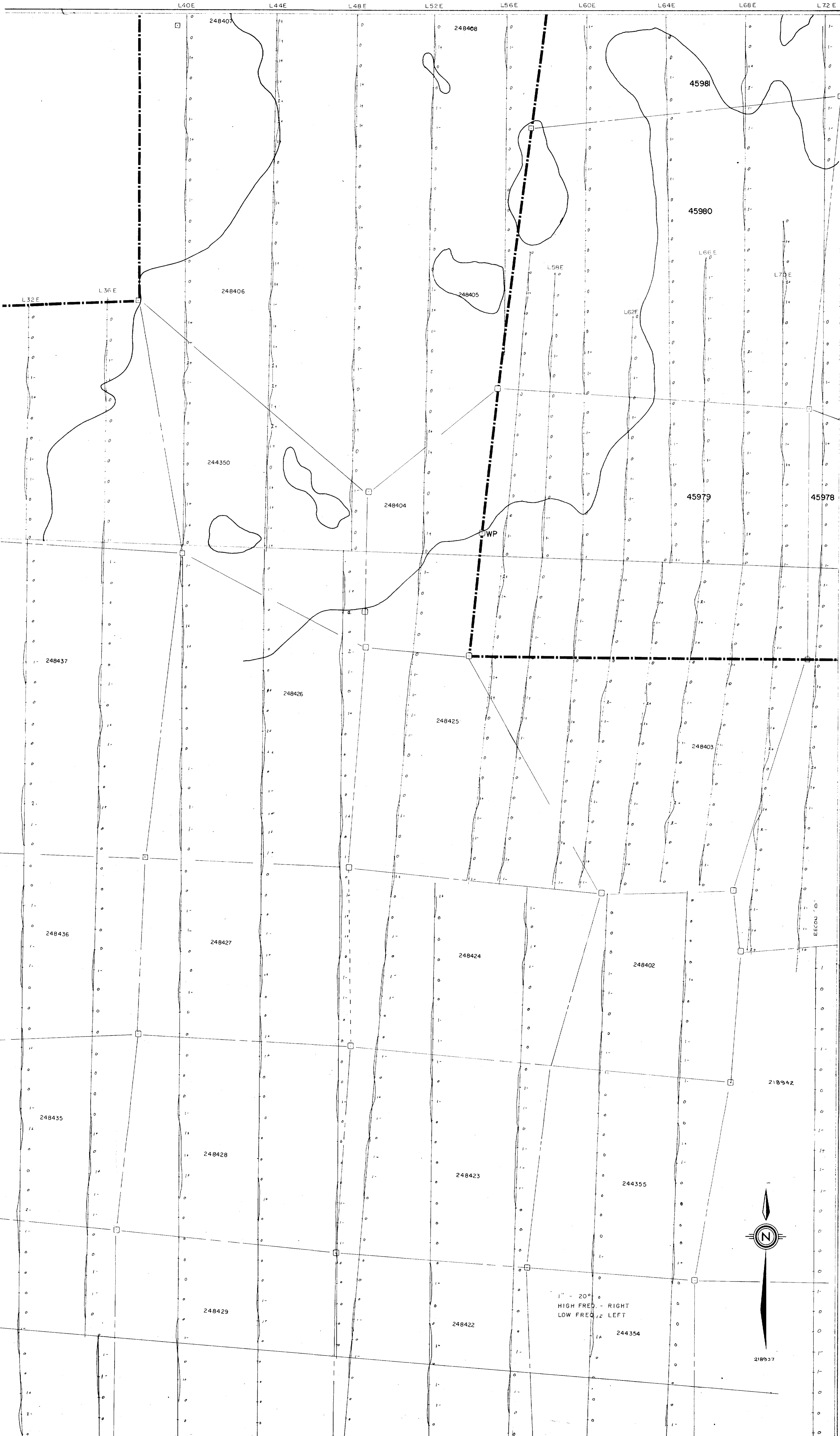
52G/1450-0020#7.

DRAWN PW	SCALE 1"=200'	SCURRY-RAINBOW OIL LTD.	MAGNETOMETER SURVEY
TRACED	DATE MAR / 70	STURGEON LAKE, ONTARIO	
APPROVED		BLOCK J	FILE NO. STUR. 4-1-10



529/145W-0020#8.

DRAWN <i>GL</i>	SCALE 1" = 200'	SCURRY-RAINBOW OIL LTD.	MAG SURVEY
TRACED	DATE SEPT / 70	BRIARCOURT <u>STURGEON L.K.</u>	L 9W. to 68E.
APPROVED <i>[Signature]</i>		BLOCK <u>K</u>	FILE NO. STUR 4-1-11



F2G/14SW-0020#11.

DRAWN PW	SCALE 1"=200'	SCURRY-RAINBOW OIL LTD.		J. E. M. SURVEY
TRACED	DATE MAR / 70	BRIARCOURT	OPTION	SOUTH L28E TO L72E
APPROVED <i>[Signature]</i>		BLOCK F	PLAN	FILE NO. STUR 4-2-7

L112E L116E L120E L124E L126E L128E L130E L132E L134E L136E L138E L140E L142E L144E L148E L150E L152E

46098

46109

46108

46097

221017

221018

45983

221020

221019

45984

46103

46104

218939

218938

218934

218933

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L134E

L138E

L140E

L142E

L144E

L148E

L150E

L152E

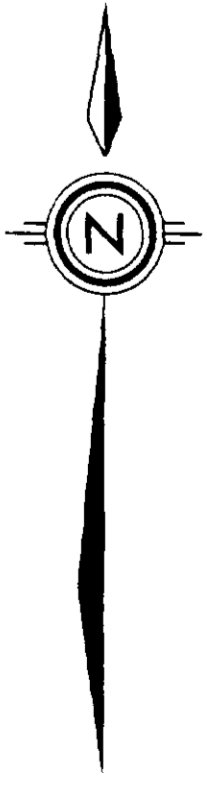
RECON 44'

RECON 48'

RECON 53'

RECON 56'

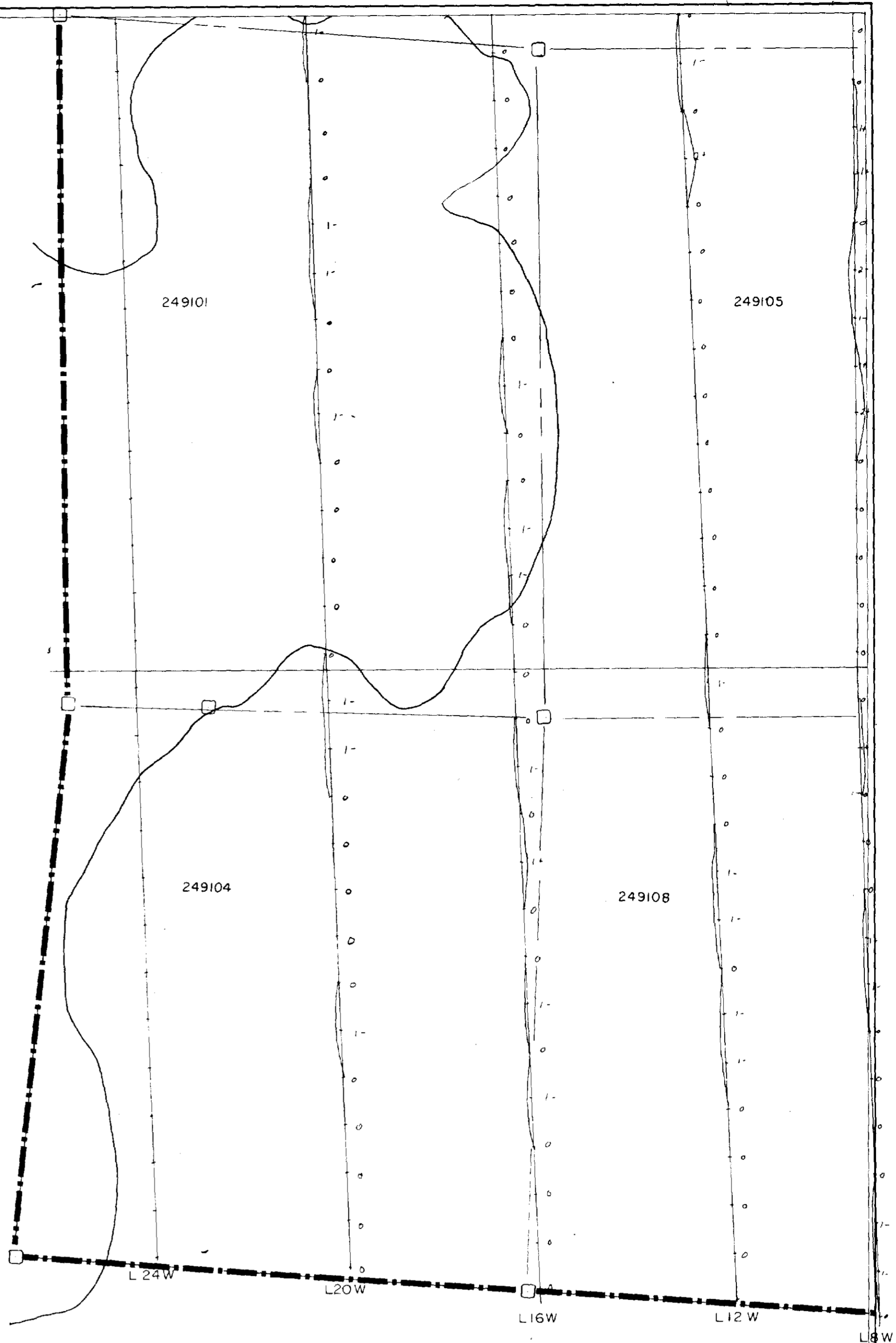
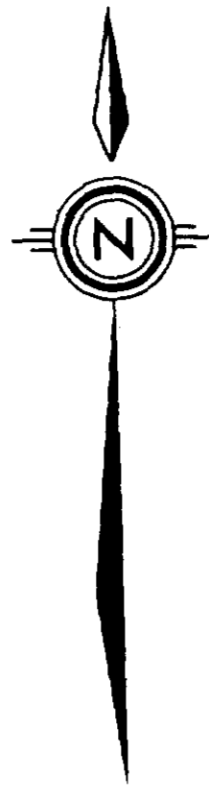
RECON 60'



1" = 20'
HIGH FREQ. - RIGHT
LOW FREQ. - LEFT

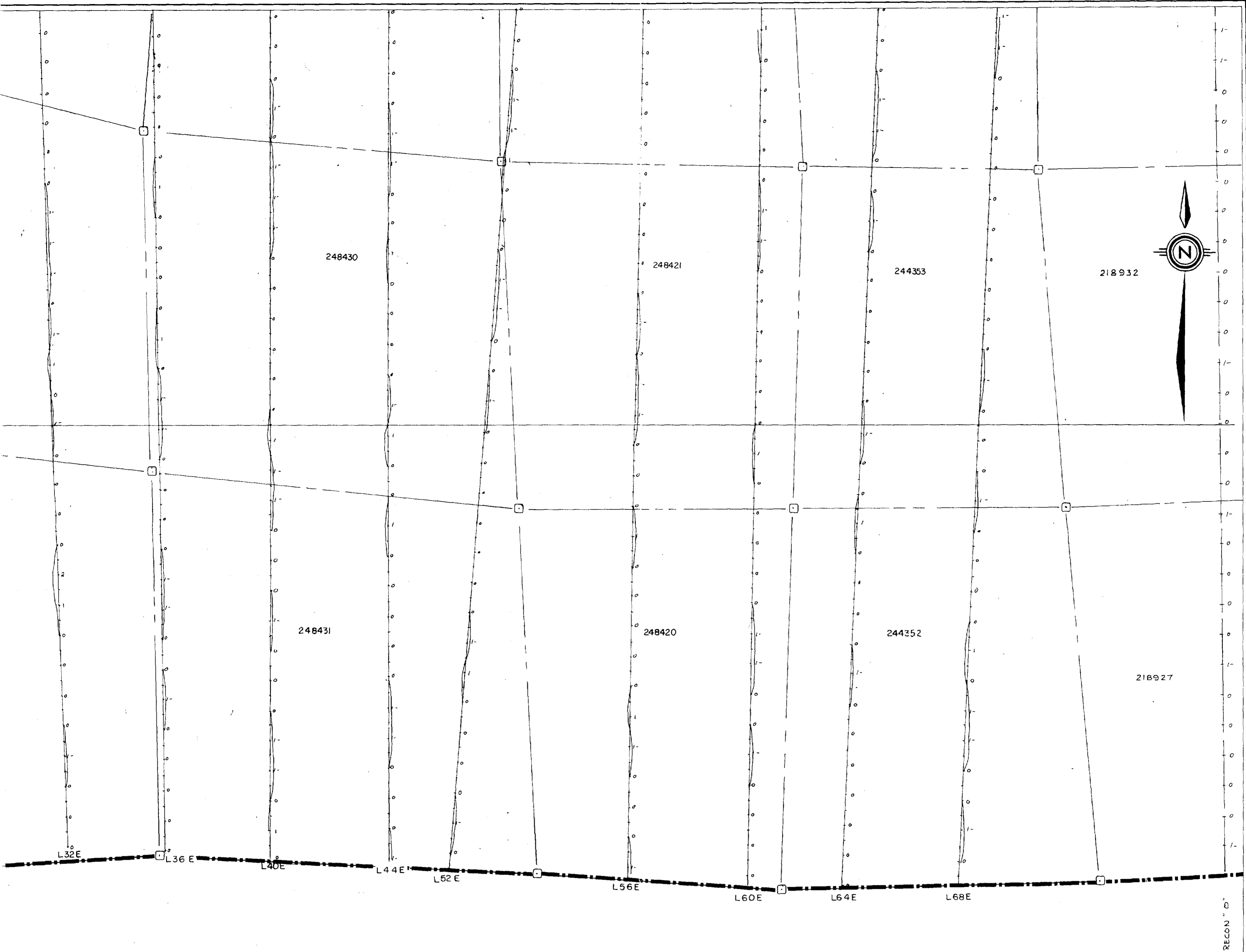
52G/14SW-0020-#12.

DRAWN PW	SCALE 1"=200'	SCURRY-RAINBOW OIL LTD.		J. E. M. SURVEY
TRACED	DATE MAR/70	BRIARCOURT	OPTION	SOUTH L74E - L152E
APPROVED		BLOCK G	PLAN	FILE NO. STUR 4-2-8



52G/14SW-0020#-13.

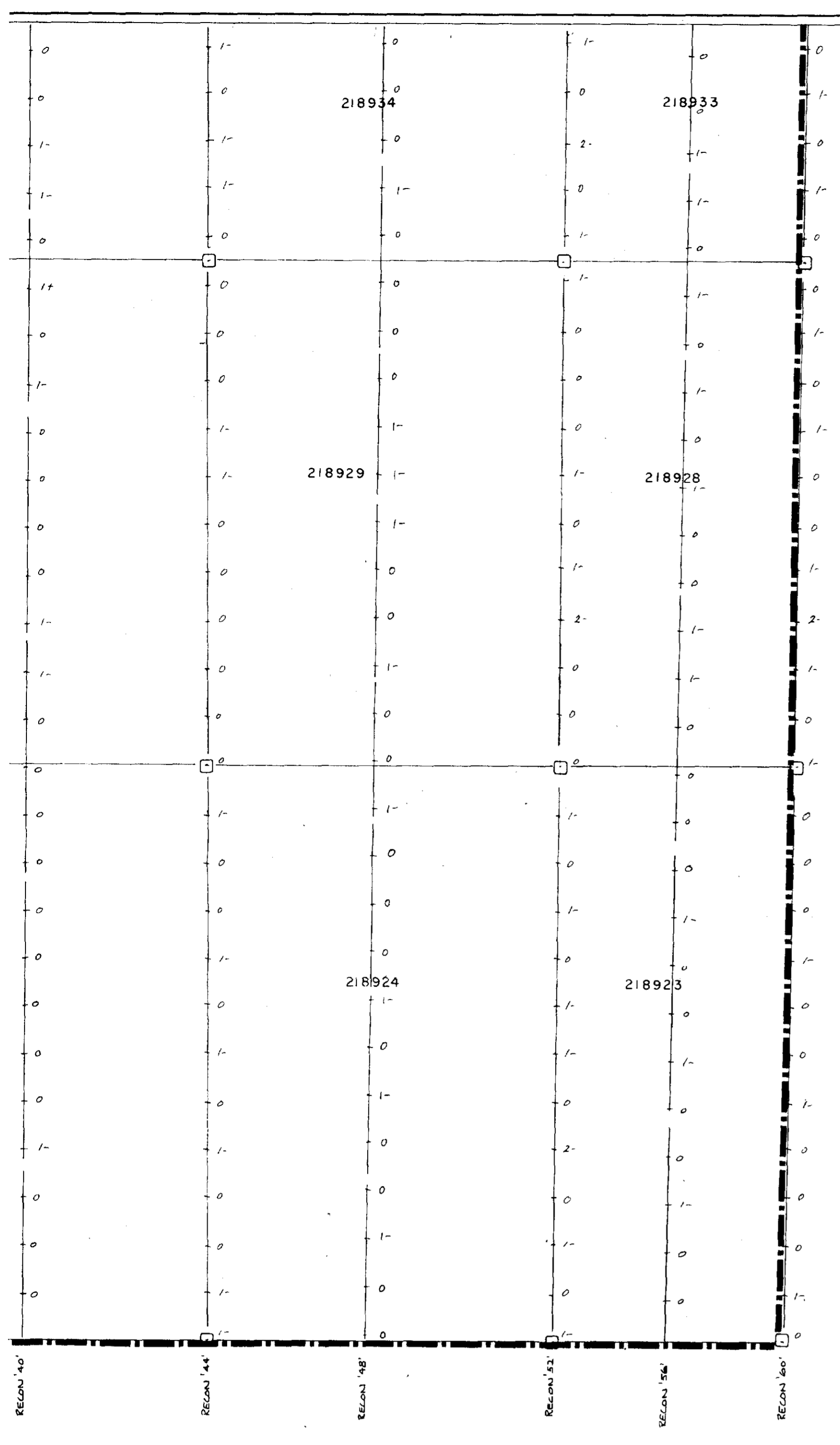
DRAWN PW	SCALE 1"=200'	SCURRY-RAINBOW OIL LTD.	J. E. M. SURVEY
TRACED	DATE MAR / 70	STURGEON LAKE, ONTARIO	
APPROVED <i>[Signature]</i>		BLOCK <u>J</u>	FILE NO. STUR 4-2-10



*X West of line
right of line*

52G/145W-0020-14.

DRAWN PW	SCALE 1" = 200'	SCURRY-RAINBOW OIL LTD.	J.E.M. SURVEY
TRACED	DATE MAR/70	STURGEON LAKE, ONTARIO	L8W — L68E
APPROVED [Signature]		BLOCK K	FILE NO. STUR 4-2-11



52G/14SW-0020-15[#]

DRAWN B B	SCALE 1"=200'	SCURRY-RAINBOW OIL LTD.	J E M. SURVEY
TRACED	DATE SEPT/70	BRIARCOURT - OPTION	FILE NO. ST02 442-12
APPROVED <i>M. The</i>		BLOCK L PLAN	

2-166