



52G14SW9163 52G14SW0023 PRESS LAKE

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GEOSEARCH CONSULTANTS LIMITED

PROJECTS
SECTION

TURAM ELECTROMAGNETIC SURVEY

for

SCURRY-RAINBOW OIL LTD.

on a portion of the

BRIARCOURT OPTION, STURGEON LAKE

ONTARIO

(To Accompany Maps 72- 450 to 72- 455)

July 31, 1972.

INTRODUCTION

A Turam electromagnetic survey was carried out for Scurry-Rainbow Oil Ltd. on a portion of the Briarcourt Option in June and July, 1972.

The property is located in the Patricia and Kenora Mining Districts of Ontario, south of Young Lake and west of Sturgeon Lake, 34 miles northeast of Ignace.

Access to the area was made by Highway 599, located one mile east of the property.

The purpose of this survey was to locate sub-surface geo-electrical conductors which might prove to be base metal orebodies. A few, generally weak, conductors were located, some of which appear to have been drilled. The accompanying maps show the area surveyed and the results obtained.

METHOD AND INTERPRETATION OF RESULTS

Turam Electromagnetic Survey

The model 2S Turam equipment was used for this survey. It was manufactured and developed in Sweden by the ABEM Instrument Group of the Craelius Company.

In common with other electromagnetic inductive systems the Turam method is based on the fact that a secondary current is induced in an electrical conductor when the conductor is subjected to an electromagnetic field. This secondary current creates its own electromagnetic field which, together with the primary applied field, produces a resultant electromagnetic field. This resultant field, which can be detected and measured, differs both in phase and amplitude from the calculated primary field; these differences may indicate the presence of a conductor.

The primary alternating field is created by the use of a large horizontal rectangular loop, energized by a current at 660 Hz per 220 Hz. The receiving system consists of two coils 100 feet apart, connected to a compensator-amplifier which measures the complex field-strength ratios and phase-differences between successive points on traverses outside and perpendicular to a long side of the primary loop. Both the phase-difference readings and the reduced field-strength ratios are plotted as curves at points mid-way between the coil positions. The reduced ratios are the measured ratios divided by the normal ratios. The normal ratios may be calculated from the geometry of the primary loop and from the location of the points at which the readings were taken in relationship to the loop.

The conductivity of steeply dipping conductors may be estimated from the following chart:

Ratio Anomaly > 1.00	Negative Phase-difference	Conductivity
Very small or nil	Small to medium	Very poor
Small	Medium to large	Poor
Large	Medium	Good
Large	Small	Very good

In areas of conductive overburden, the amplitudes of anomalous readings, both the phase and the ratio, increase as their distance from the primary loop increases.

RESULTS

Map 72-453 - Block D

No conductors were located. The area surveyed was geo-electrically neutral.

Map 72-450 - Blocks C - D

A short conductive zone was located southeast of the road between lines 182E and 188E from 131+50N to 133+50N. The conductivity appears to be fairly low although it may be better than indicated as the Turam method does not respond well to conductors with a short strike length.

Map 72-454 - Blocks D - H

A conductor was located between lines 6S and 8N. It may be interrupted between lines 2N and 4N, as indicated on the map. The strongest portions appear to be on lines 0 and 2N.

Map 72-451 - Blocks G - H

Three weakly conductive indications were located between lines 140E and 144E from 83+70N to 85+50N. It is not clear from the results whether the conductors on lines 140E and 142E are one and the same conductor.

A weakly conductive indication occurs on line 156E at 83+75N. A possible weakly conductive trend, extending intermittently to the east as far as line 184E, has been dotted on the map.

Map 72-452 - Blocks G - H

No conductors were located on this portion of the grid.

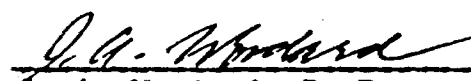
Map 72- 455 - Blocks G - H

No conductors were located. A few anomalous phase-difference readings were obtained. These are deemed to have been caused by conductivity in the overburden.

RECOMMENDATIONS

Detailed prospecting should be carried out over the conductors which have not been drilled. The conductor on Map 72- 450 on lines 186E at 133+50N should be given first priority if diamond drilling is contemplated. A detailed horizontal loop electromagnetic survey over the conductors on Map 72- 451 between lines 140E and 144E should be considered before any drilling is planned.

Respectfully submitted,
GEOSARCH CONSULTANTS LTD.



J. A. Woodard, P. Eng.
Consulting Geophysicist.



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 Electromagnetic

Township or Area Watcomb Lake and Clarkston Area

Claim holder(s) _____

Author of Report J. A. Woodard

Address Suite 1114, 100 University Ave., Toronto 1

Covering Dates of Survey June 15 to July 31, 1972
(linecutting to office)

Total Miles of Line cut (used old lines) 37.17 miles
(used new lines) 20.88 miles

MINING CLAIMS TRAVERSED List numerically

PA- 45970 (prefix)	PA- 218936 (number)
45971	218937
45972	218938
45982	218939
45983	218940
45984	218941
46097	218942
46098	221017
46099	221018
46100	221019
46101	221020
46102	221021
46103	221022
46104	248411
46105	
46106	218923
46107	
46108	218924
46109	
46110	218925
46111	
46365	218926
46366	
47099	218927
47100	
47101	
47102	
47103	
47104	
47105	
47106	
47107	
47108	
47360	
218928	
218929	
218930	
218931	
218932	
218933	
218934	
218935	

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

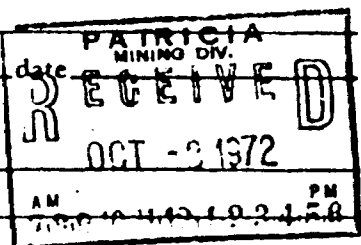
AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

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

DATE: July 31, 1972 SIGNATURE: J. A. Woodard
Author of Report

PROJECTS SECTION
Res. Geol. _____ Qualifications _____
Previous Surveys _____

Checked by _____
GEOLOGICAL BRANCH _____
Approved by _____
GEOLOGICAL BRANCH _____
Approved by _____ date _____



OFFICE USE ONLY

TOTAL CLAIMS 61

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations 2730 Number of Readings 2730
Station interval 100 Feet
Line spacing 100 Feet, Some Detail at 200 Feet
Profile scale or Contour intervals Ratio: 1 Inch to 20; Phase: 1 Inch to 10%
(specify for each type of survey)

MAGNETIC

Instrument _____
Accuracy - Scale constant _____
Diurnal correction method _____
Base station location _____

ELECTROMAGNETIC

Instrument A.B.E.M. Turam Model 2 S
Coil configuration Co-Planar
Coil separation 100 Feet
Accuracy ± 1% Per Scale Division
Method: Fixed transmitter Shoot back In line Parallel line
Frequency 660 HZ
(specify V.L.F. station)
Parameters measured Field Strength Ratios and Phase Differences

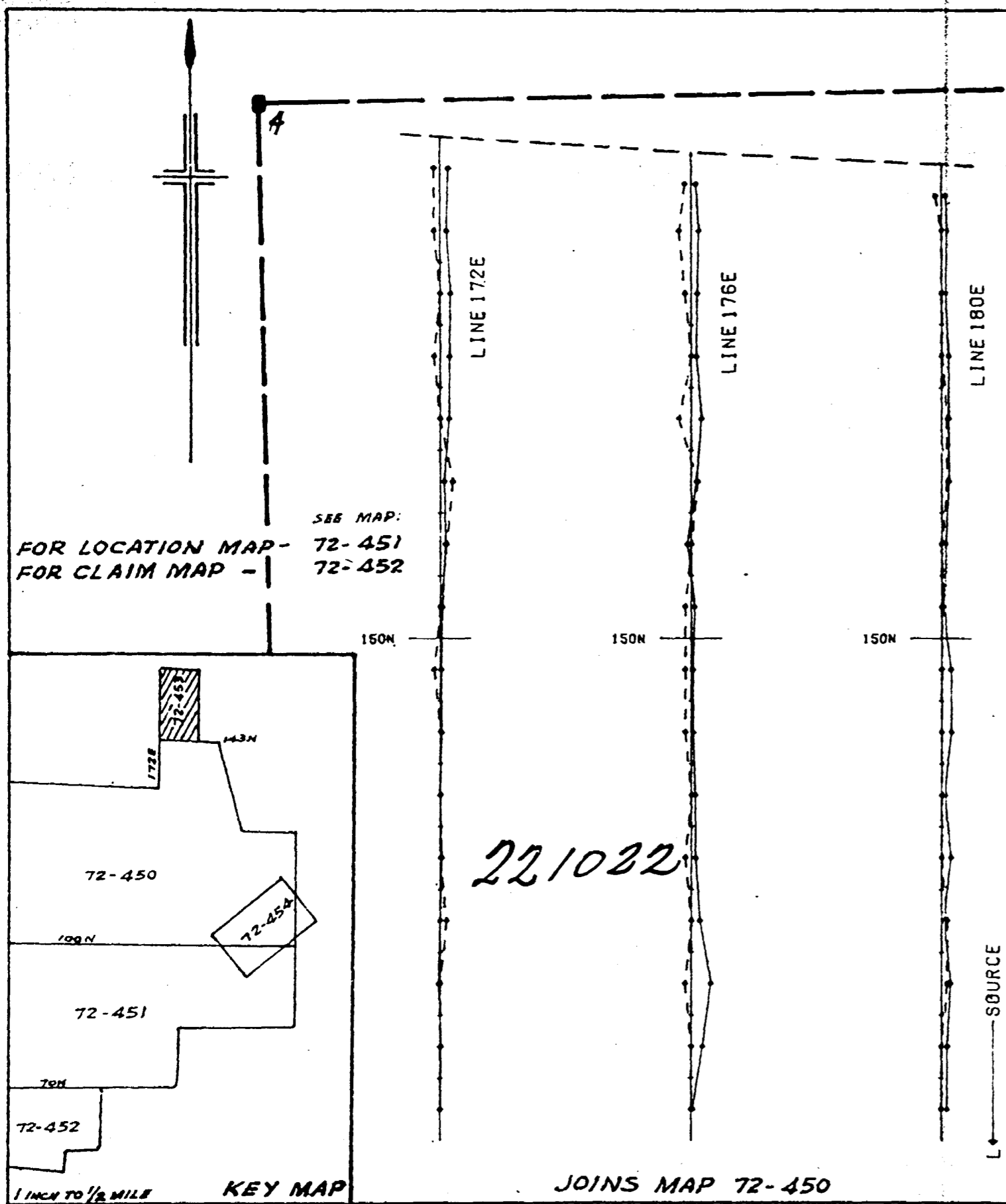
GRAVITY

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 _____



LEGEND

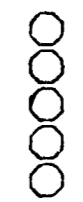
- RATIO. 660 C.P.S.
- - - • - - - PHASE. 660 C.P.S.
- RATIO. 220 C.P.S.
- - - • - - - PHASE. 220 C.P.S.

LOOPS

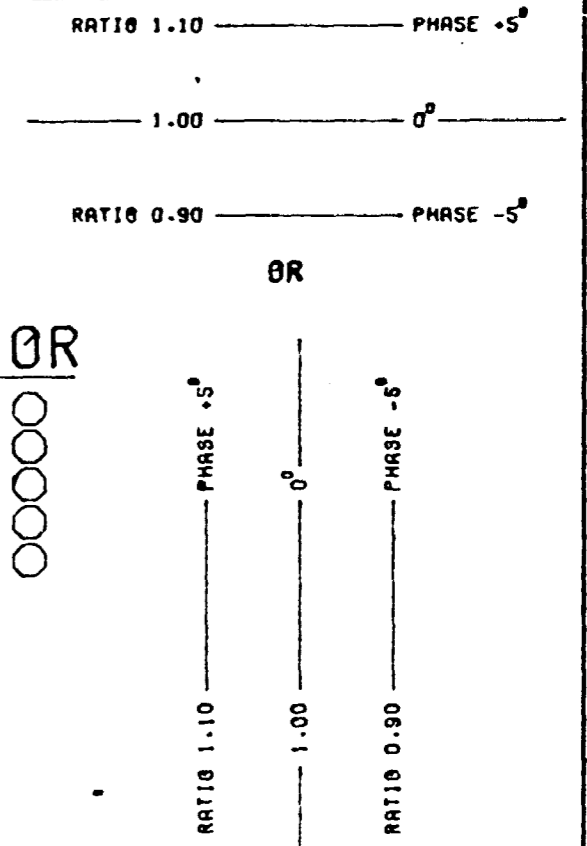
L184E 168E 140N 125N

CONDUCTOR

STRONG
↓
WEAK
INDEFINITE



VERTICAL SCALE



TURAM SURVEY

BY

GEOSEARCH CONSULTANTS LTD.
FOR
SCURRY RAINBOW OIL LIMITED

NORTH GRID, BLOCK D
BRIARCOURT OPTION
STURGEON LAKE, ONTARIO

J. H. Woodard

JULY, 1972

SCALE: 1 INCH TO 200 FT.

72-453

2.1022

WHITER

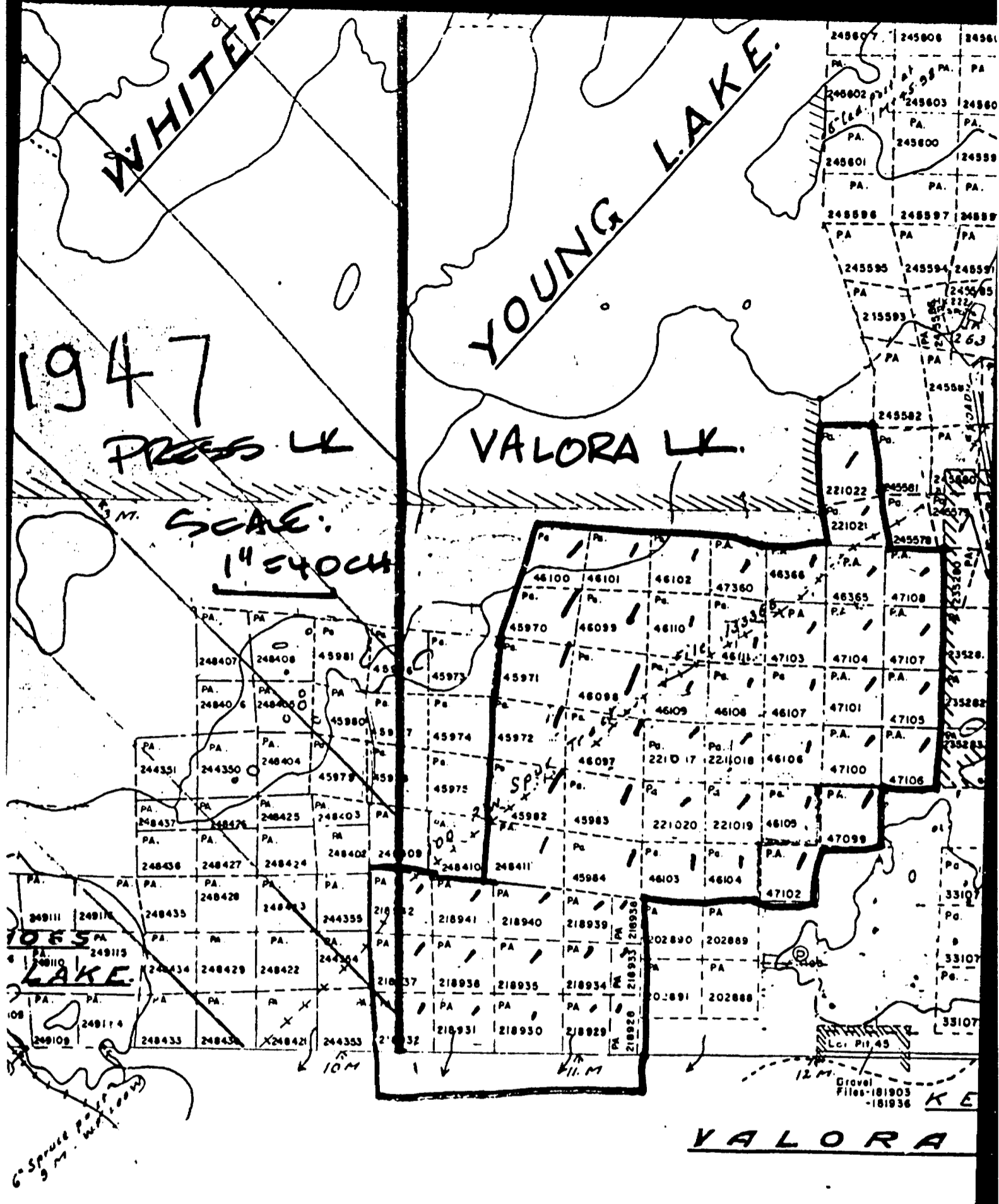
YOUNG LAKE

1947

PRESS LK

VALORA LK.

SCALE:
1" = 400'



file 2.1022

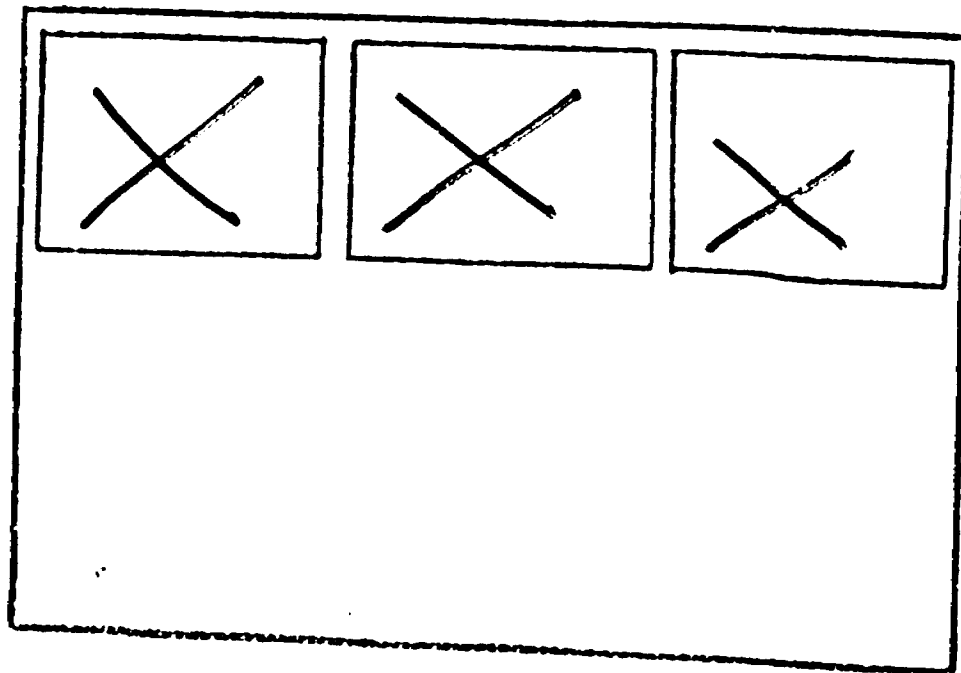
SEE ACCOMPANYING
MAP(S) IDENTIFIED AS

52 G/14SW-0023 #1

#2

#3

LOCATED IN THE MAP
CHANNEL IN THE FOLLOWING
SEQUENCE (X)

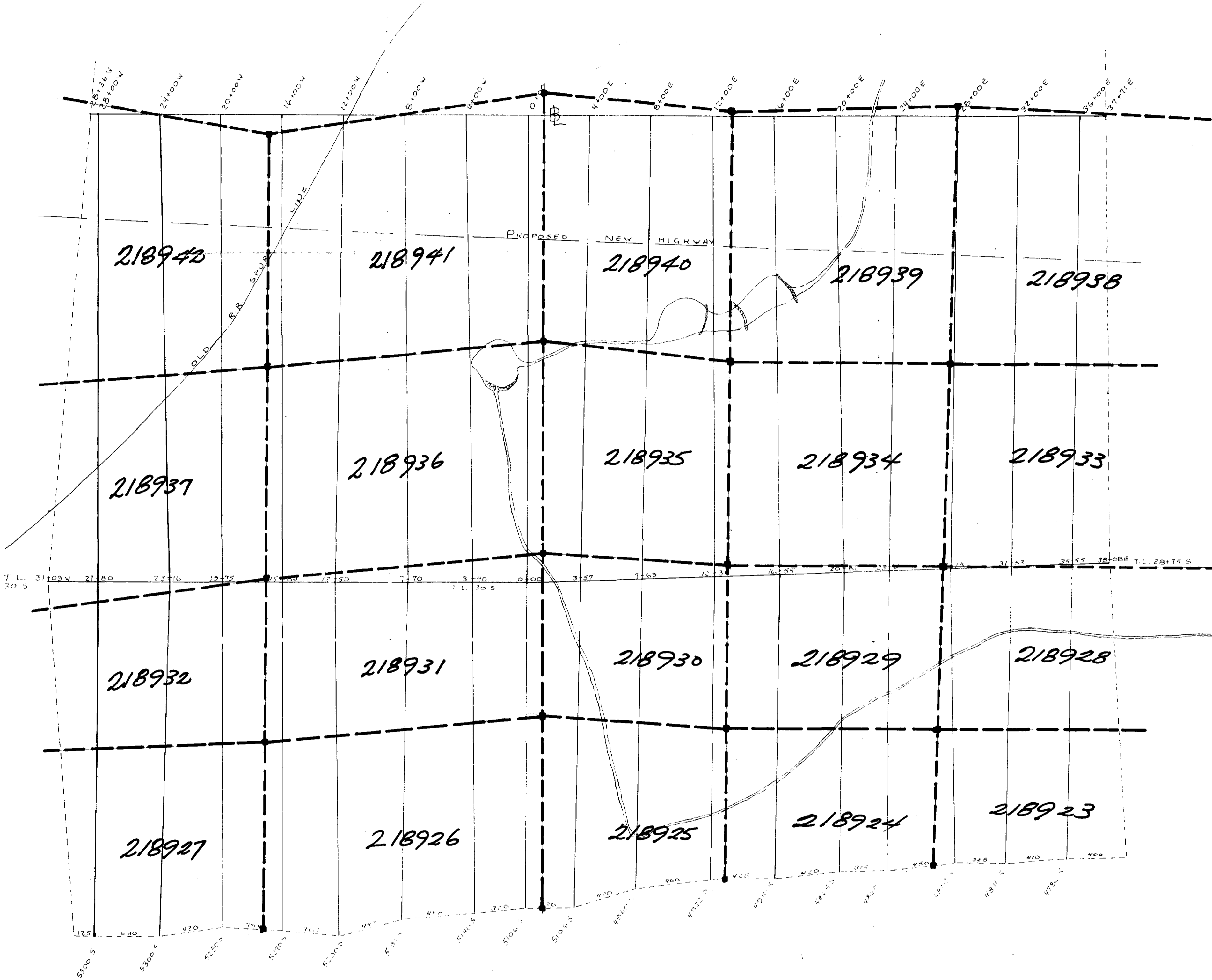


FOR ADDITIONAL

INFORMATION

SEE MAPS:

52G/14SW-0023#4-#7

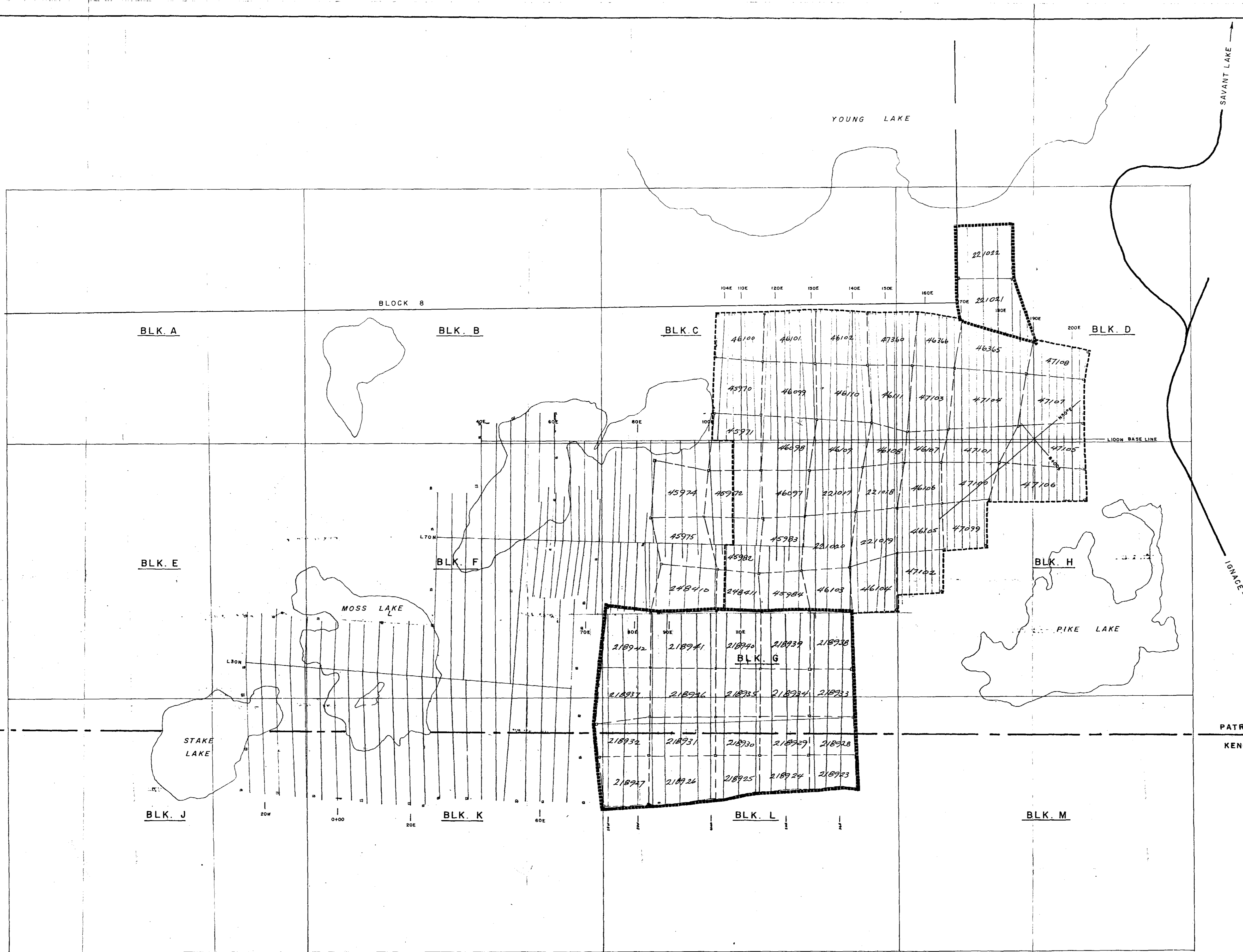


52G/14SW-0023 #1



SCURRY-RAINBOW OIL LTD.
BRIANCOURT OPTION
STURGEON LAKE, ONT.
THOREX LIMITED
LINECUTTING JUNE 1972
J. P. DUCHARME - SUPERVISOR

SCALE: 1"=400'



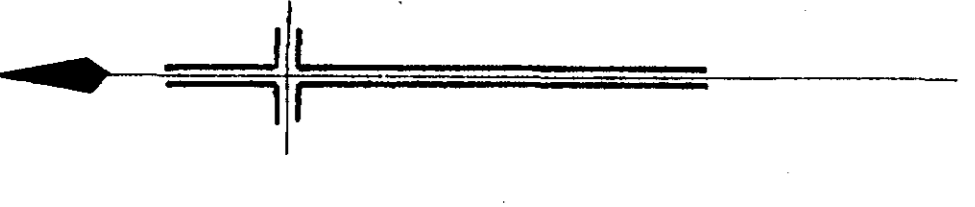
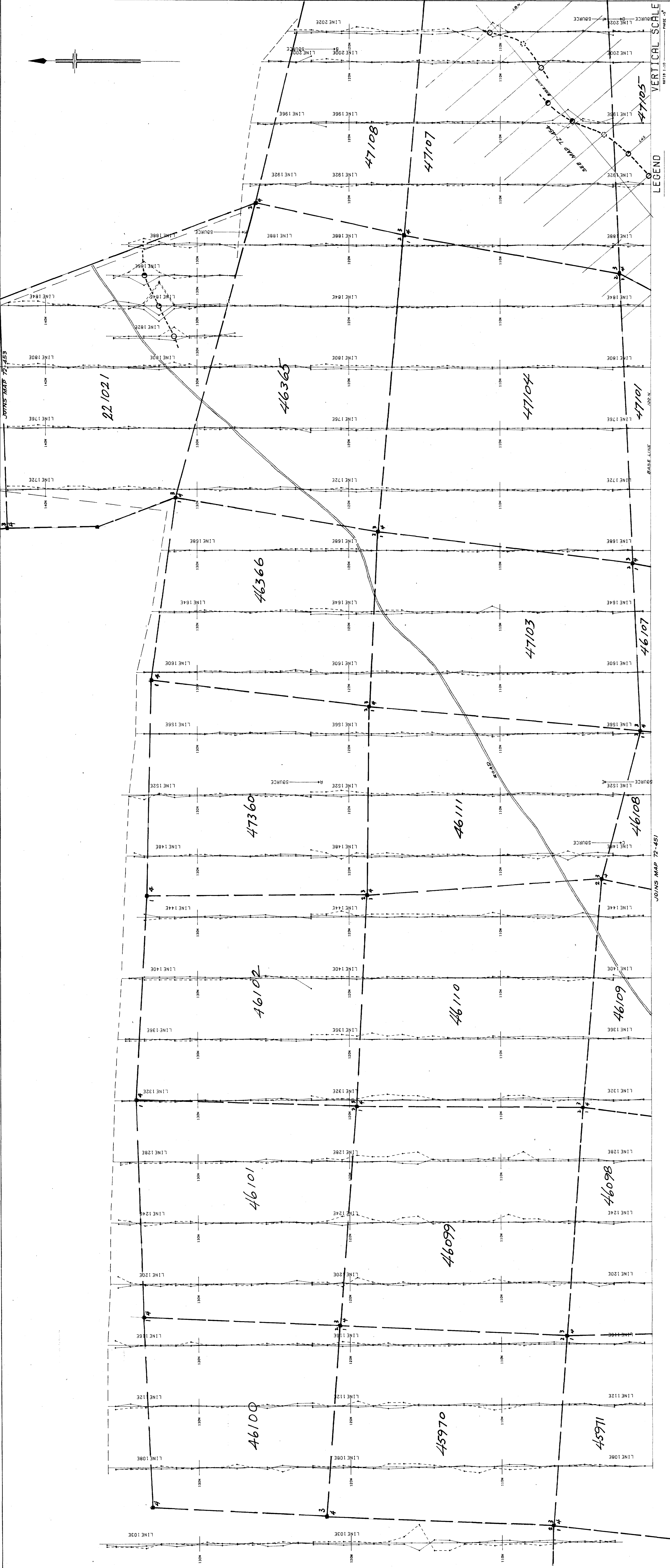
529/145W-0023-#2

ASSESSMENT AREA
 AREA LINE CUTTING & TURAM SURVEY
 AREA TURAM SURVEY ONLY

DRAWN R.M.	SCALE 1" = 1320'	SCURRY-RAINBOW OIL LTD.	MASTER BLOCK PLAN & CUT LINES	
TRACED	DATE MAR. 1970			BRIARCOURT OPTION STURGEON LAKE, ONT.
APPROVED	REVISED AUG. 1972			

2-1022





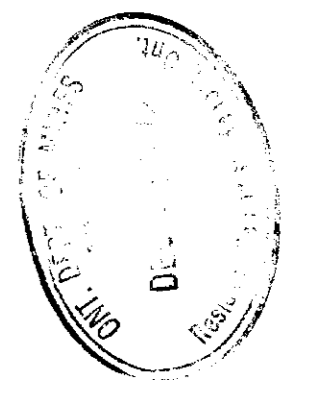
VERTICAL SCALE
 WITH 1:10
 PAGE 3

LEGEND
 WITH 1:10
 WITH 0.50
 WITH 0.25
 WITH 0.125

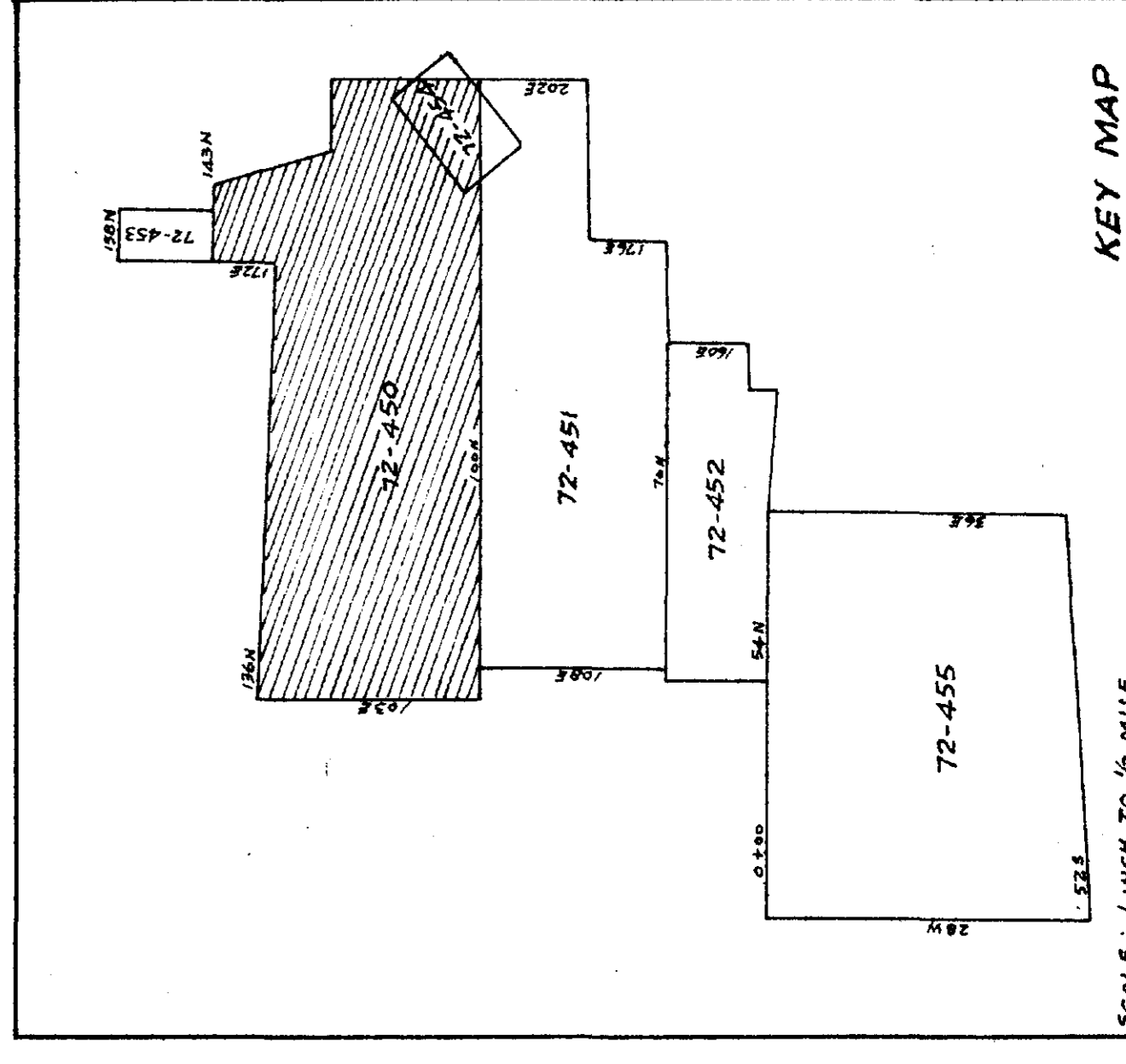
LOOPS
 CONDUCTOR
 STRONG
 WEAK
 INDEFINITE

SCALE: 1 INCH TO 200 FT.

526/145V-0023 #3

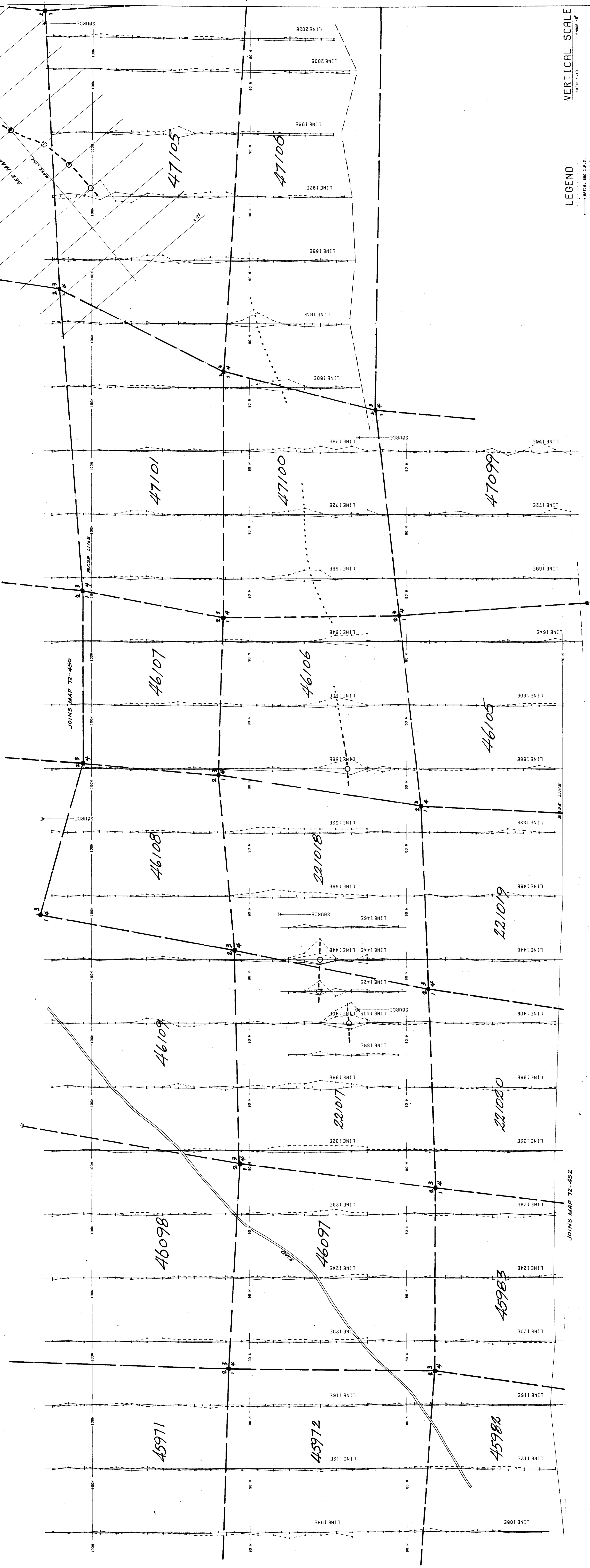
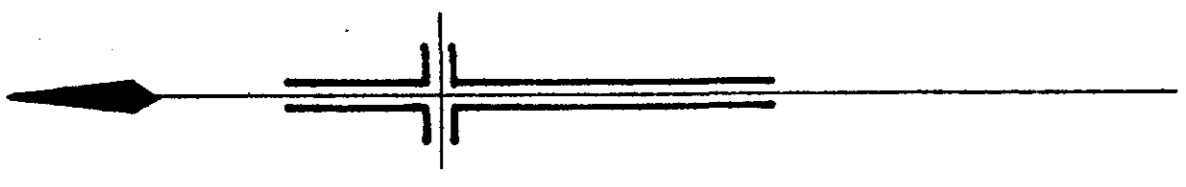


TURKEY SURVEY
 GEOSEARCH CONSULTANTS LTD.
 SCURRY-RAINBOW
 OIL LIMITED
 NORTH GRID, BLOCKS C-D
 BELARCOURT OPTION
 STURGEON LAKE, ONTARIO



FOR LOCATION MAP - SEE MAP 72-451
 FOR CLAIM MAP - SEE MAP 72-452

SCALE: 1 INCH TO 200 FT.



LEGEND
 WITH 600 C.P.S.
 WITH 300 C.P.S.
 WITH 150 C.P.S.

VERTICAL SCALE
 METERS 1:10
 FEET 1:10
 METERS 0:50
 FEET 0:50

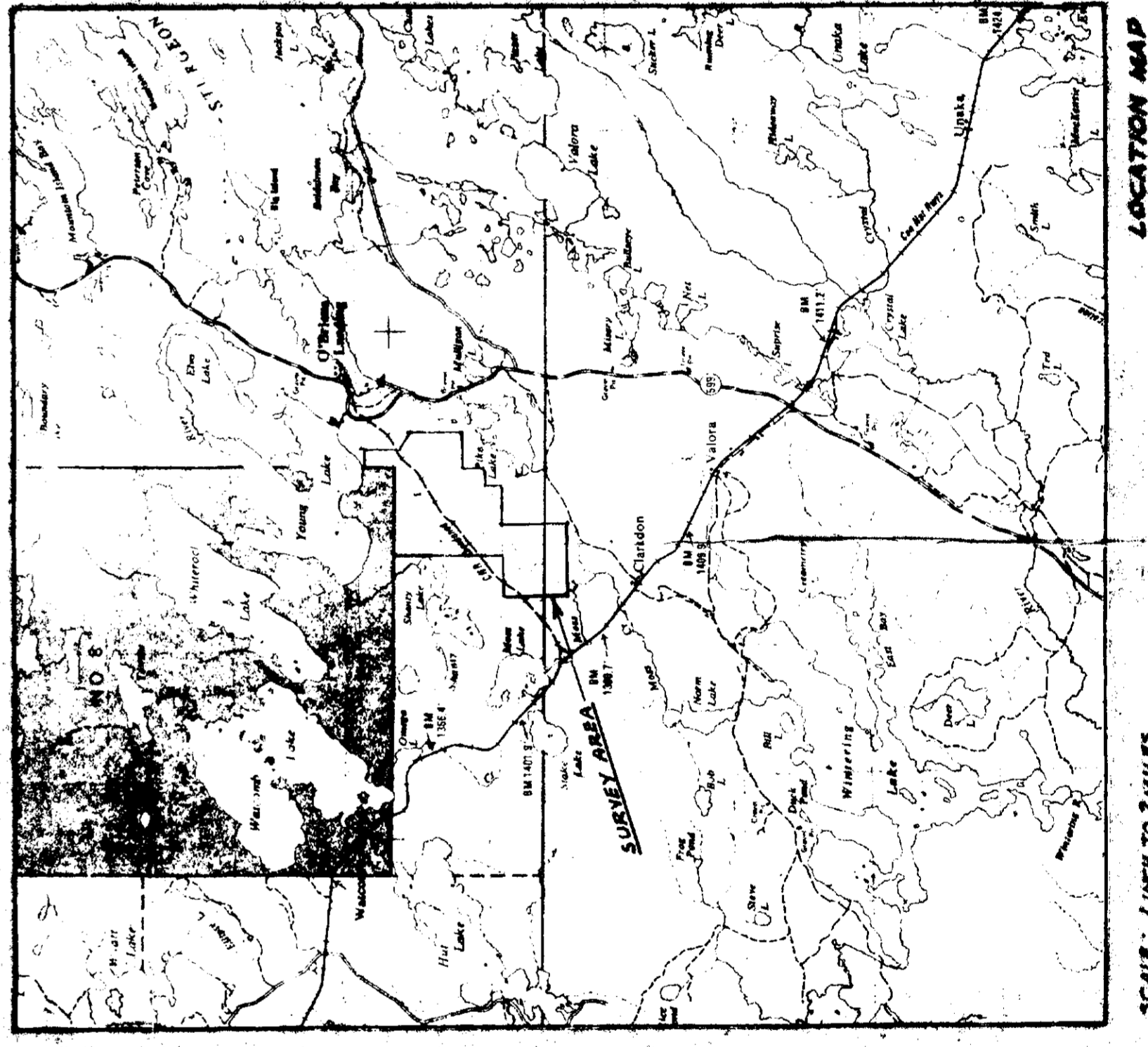
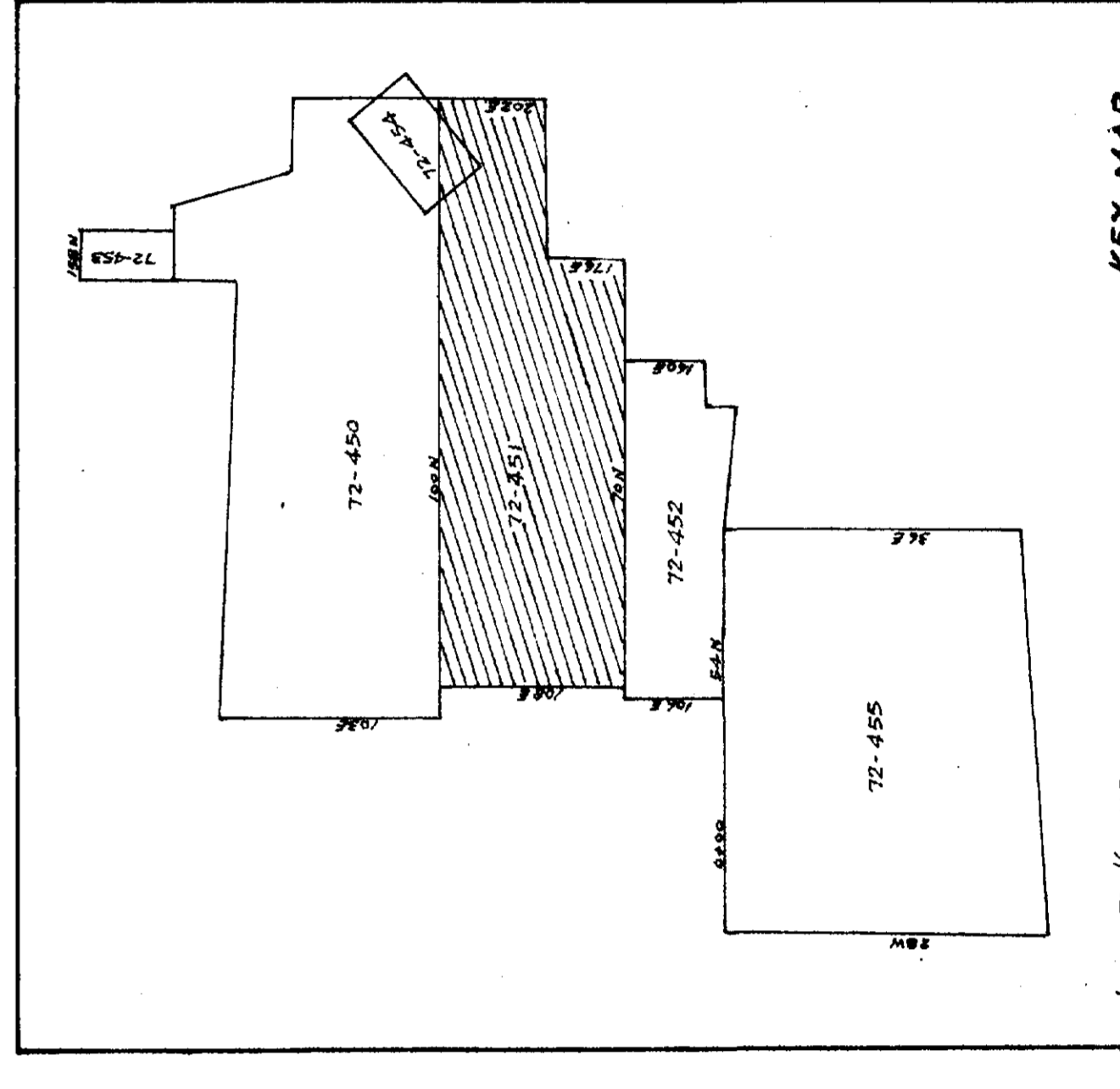
CONDUCTOR
 STRONG
 WEAK
 INDEFINITE

LOOPS
 1500 1500 1500 1500
 1000 1000 1000 1000
 500 500 500 500
 250 250 250 250
 125 125 125 125



526/14 SN-0023 #4

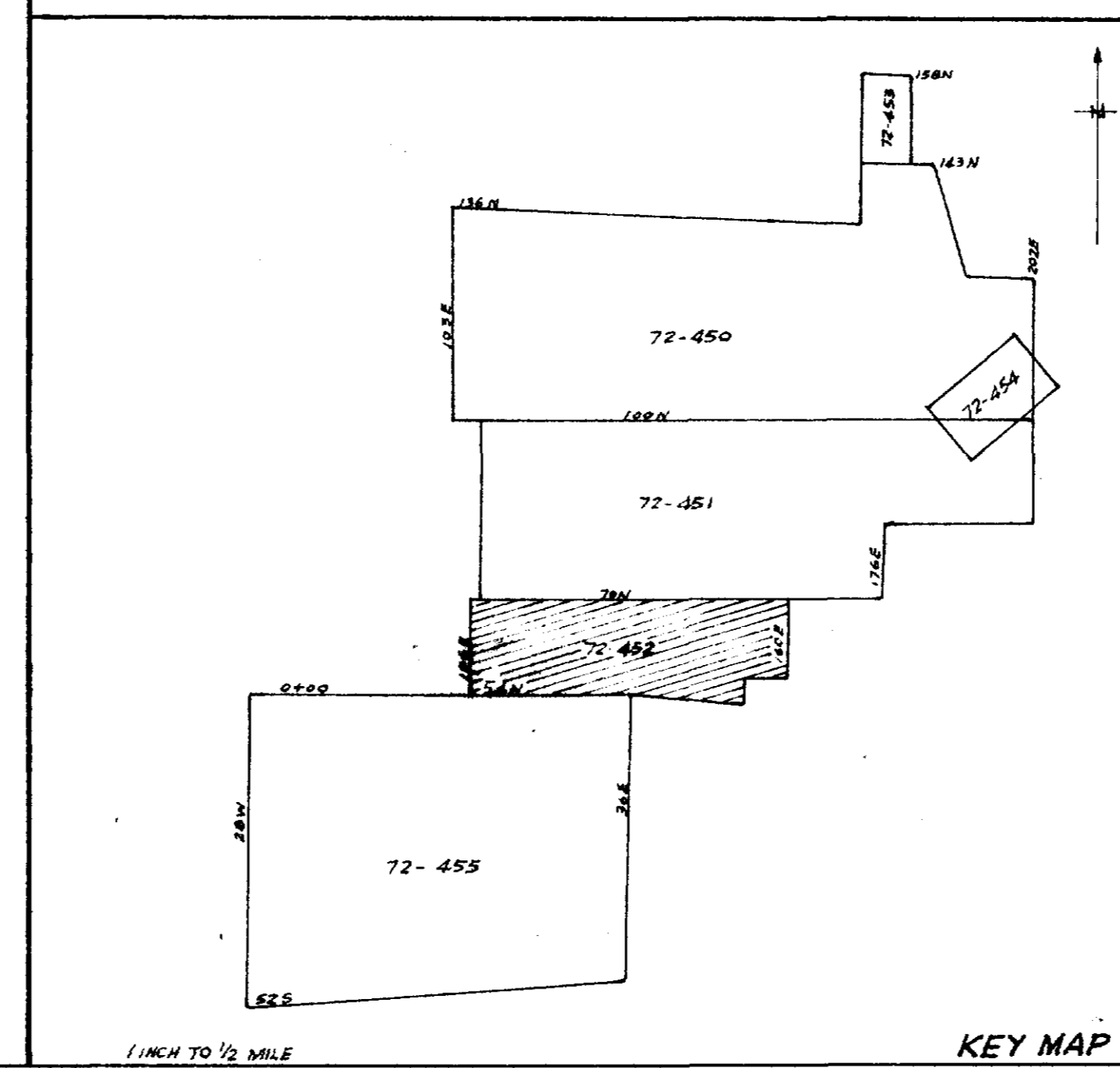
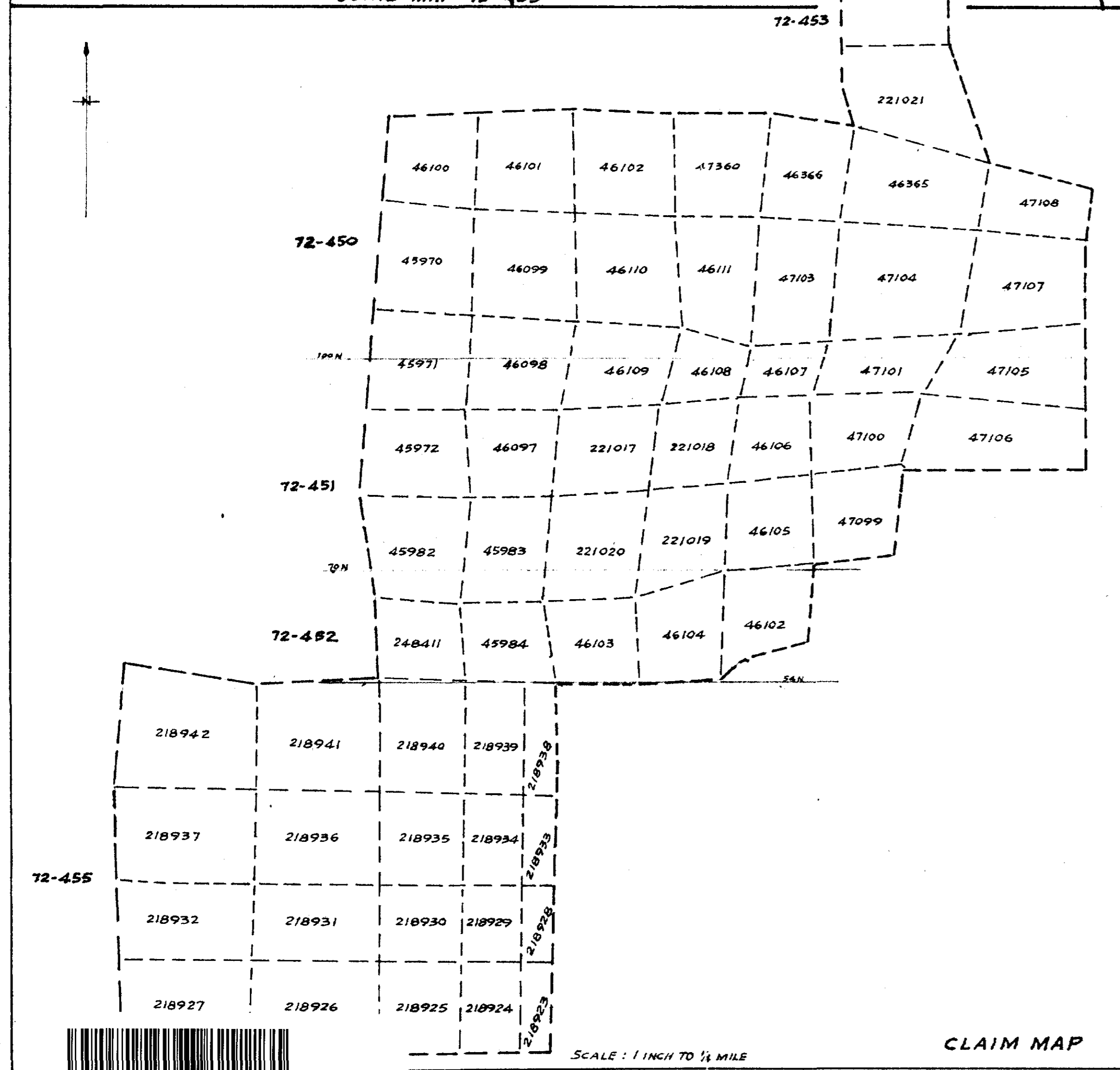
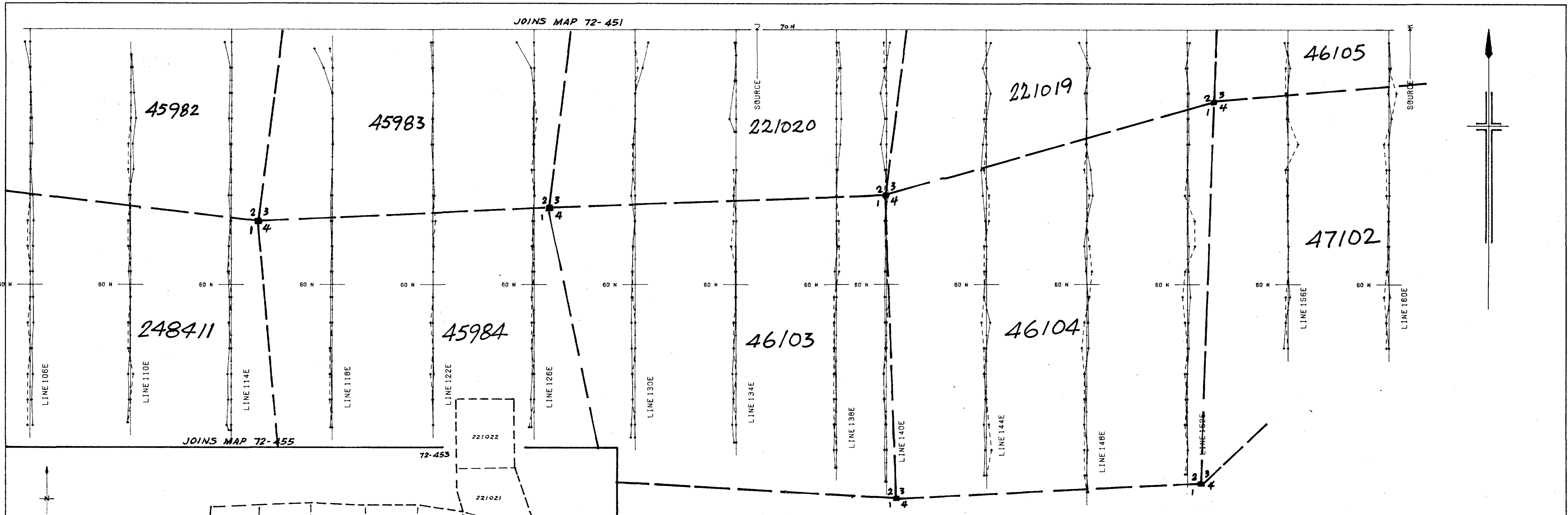
TURAM SURVEY
 GEOSURVEY CONSULTANTS LTD.
 SCURRY-RAINBOW OIL LIMITED
 NORTH GRID - BLOCKS G-H
 BRIARCLIFF OPTION
 STURGEON LAKE, ONTARIO
 SCALE: 1 INCH TO 200 FT.
 75-451



FOR CLAIM MAP - SEE MAP 72-452

SCALE: 1 INCH TO 2 MILES
 LOCATION MAP

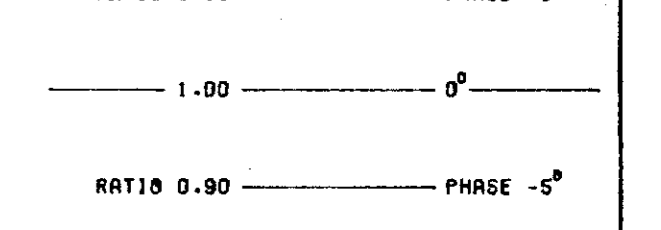




LEGEND

- RATIO. 660 C.P.S.
- - - PHASE. 660 C.P.S.
- RATIO. 220 C.P.S.
- - - PHASE. 220 C.P.S.

VERTICAL SCALE

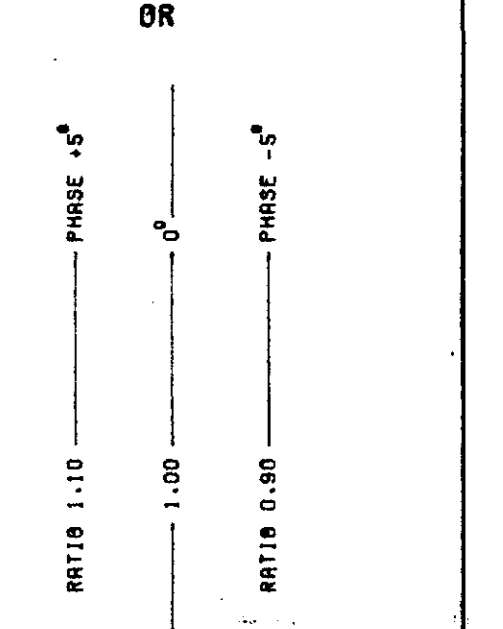


LOOPS

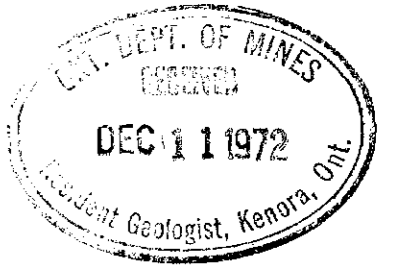
- J106E 134E 72M 87N
- K134E 160E 72M 87N

CONDUCTOR

- STRONG ○○○○
- WEAK ○○○
- INDEFINITE ○○○



52G/4 SW-0023 #5



TURAM SURVEY
 BY
GEOSEARCH CONSULTANTS LTD.
 FOR
SCURRY-RAINBOW OIL LIMITED

SOUTH GRID, BLOCKS G-H
 BRIARCOURT OPTION
 STURGEON LAKE, ONTARIO

J. H. [Signature]

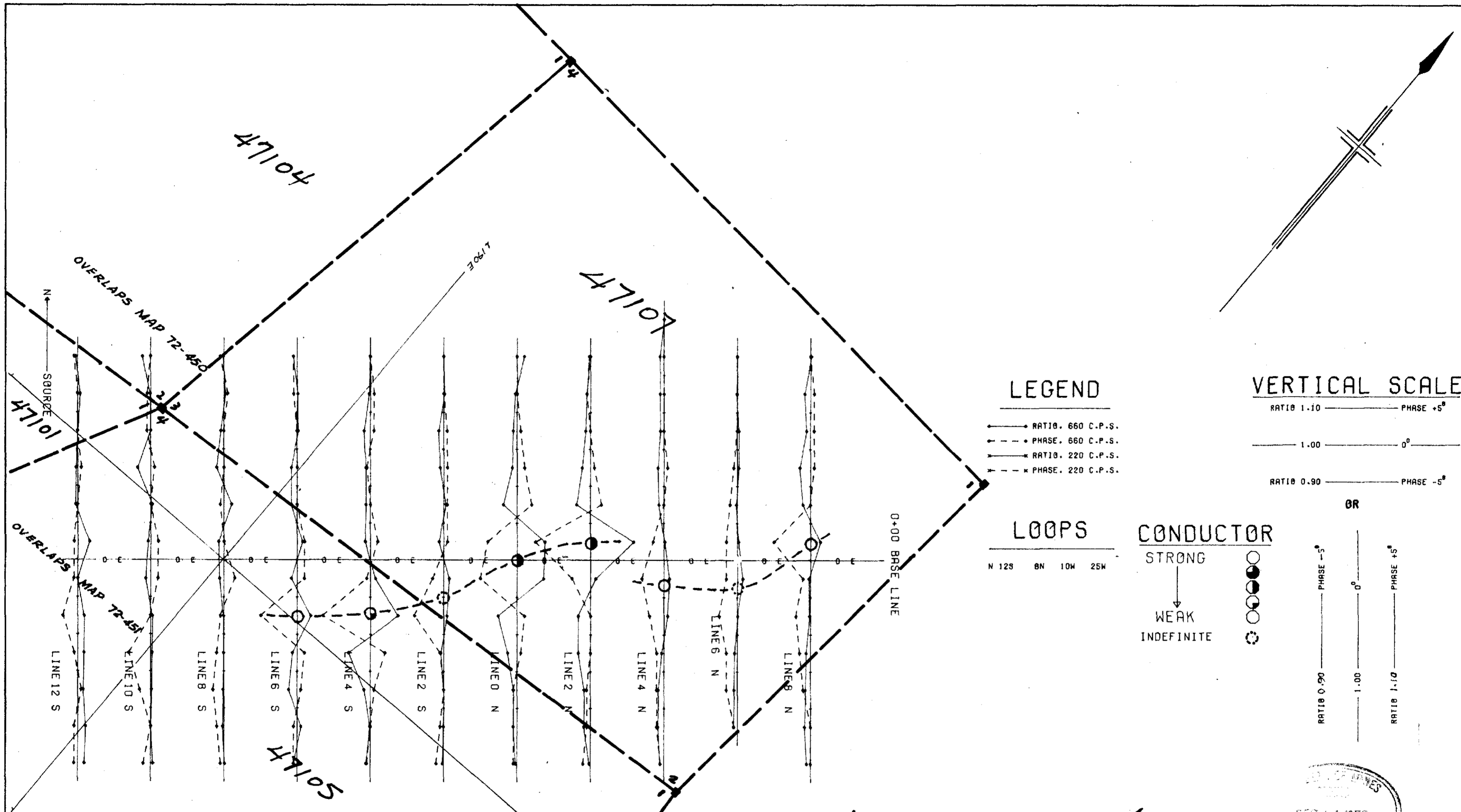
JULY, 1972

SCALE: 1 INCH TO 200 FT.

72-452



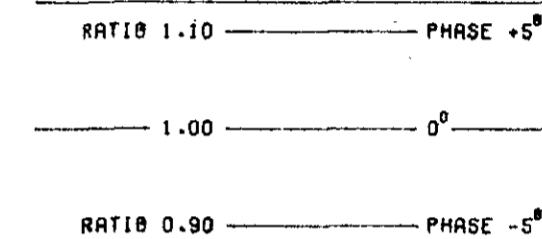
520145N9163 520145W0023 PRESS LAKE



LEGEND

- RATIO. 660 C.P.S.
- - - • - - - PHASE. 660 C.P.S.
- RATIO. 220 C.P.S.
- - - x - - - PHASE. 220 C.P.S.

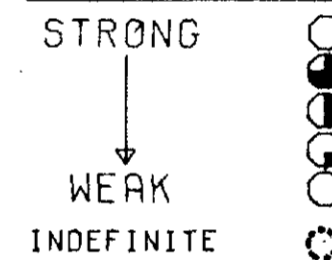
VERTICAL SCALE



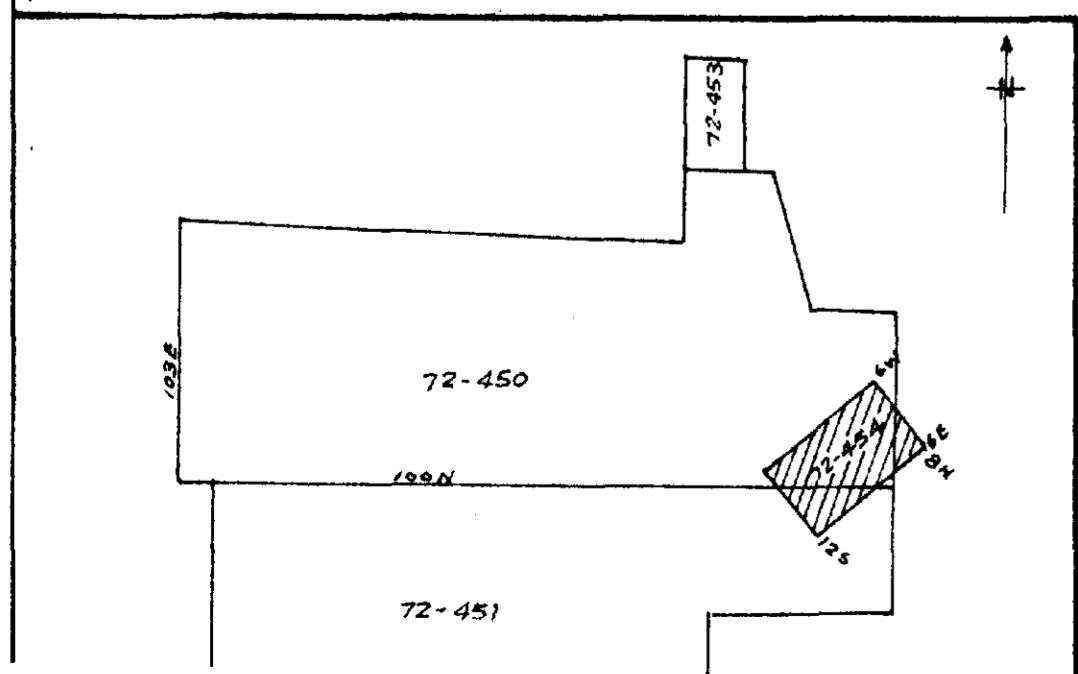
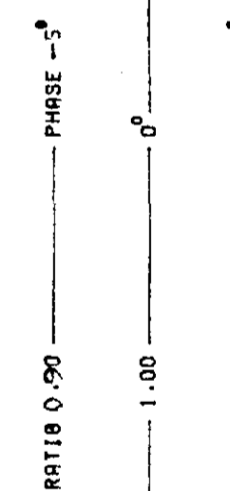
LOOPS

N 12S 8N 10W 25W

CONDUCTOR



OR



52G/14SW-0023 #6



TURAM SURVEY

BY
GEOSEARCH CONSULTANTS LTD.
 FOR
SCURRY RAINBOW OIL LIMITED

DETAIL GRID, BLOCKS D-H
 BRIARCOURT OPTION
 STURGEON LAKE, ONTARIO

FOR LOCATION MAP - SEE MAP 72-451
 FOR CLAIM MAP - SEE MAP 72-452

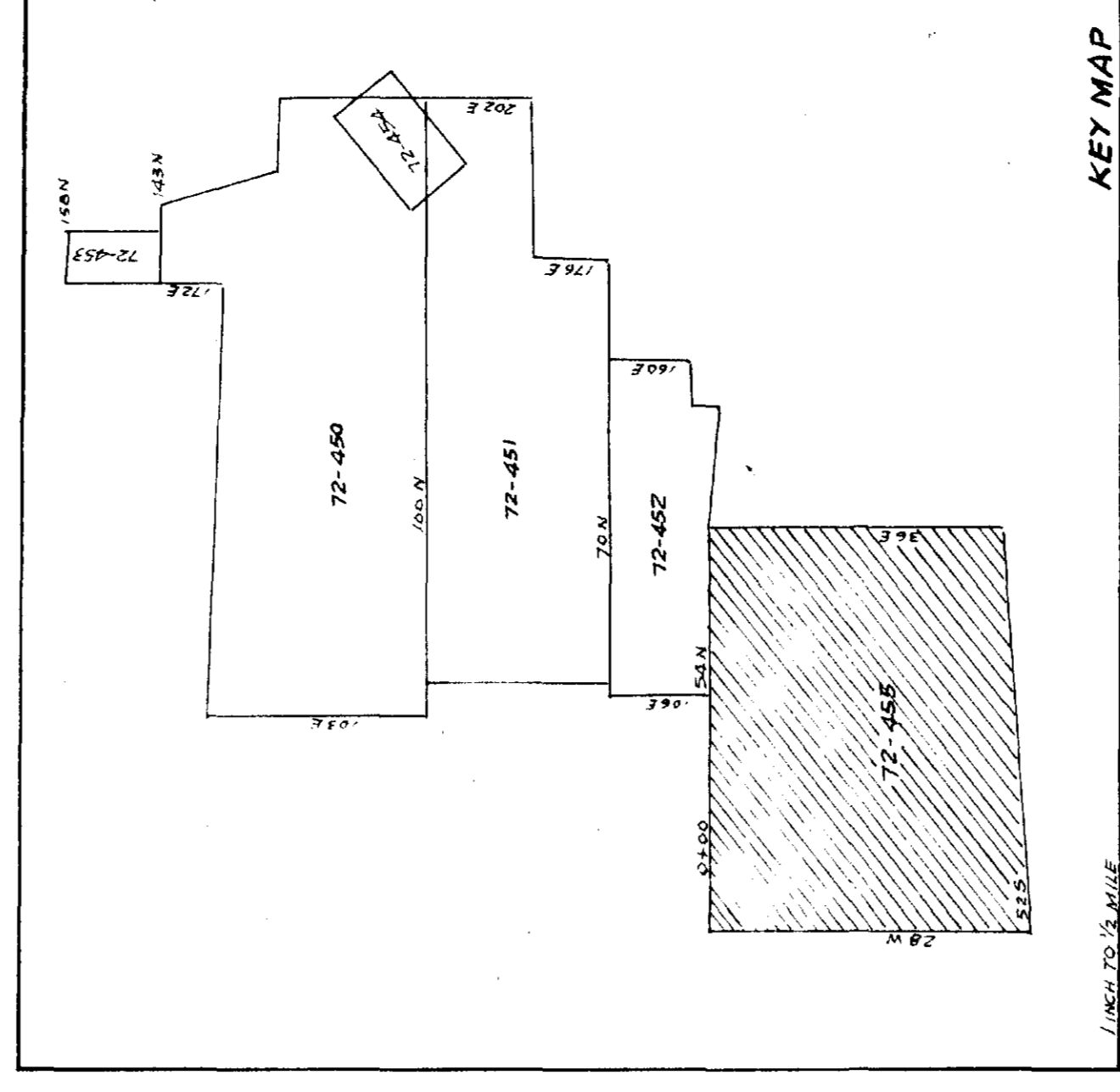
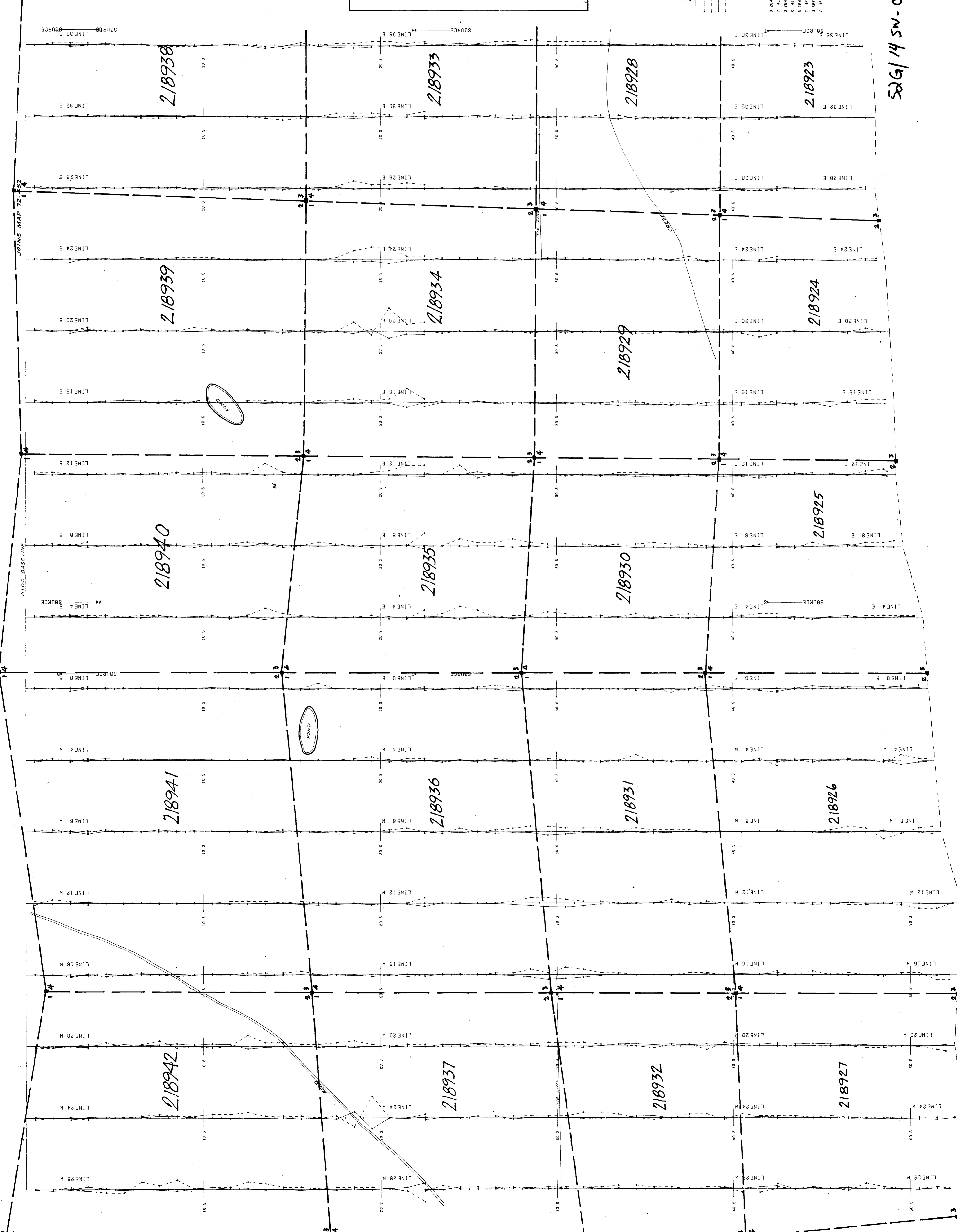
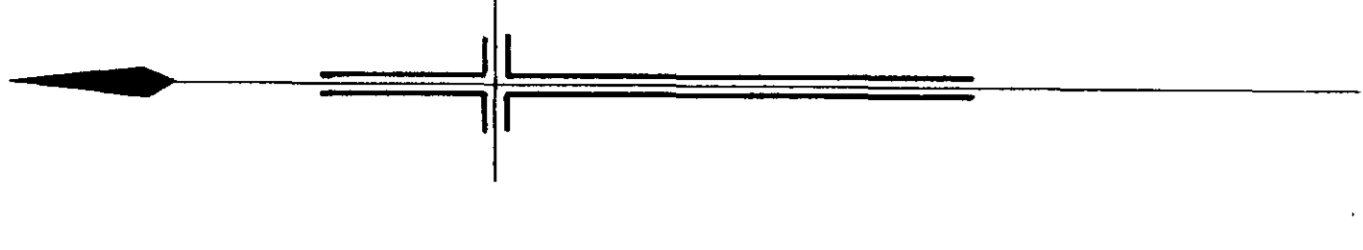
JULY, 1972

SCALE: 1 INCH TO 200 FT.

72-454

J. H. Woodard





LEGEND

--- BHTD. 800 C.P.S.
 --- BHTD. 400 C.P.S.
 --- BHTD. 200 C.P.S.
 --- BHTD. 100 C.P.S.

VERTICAL SCALE

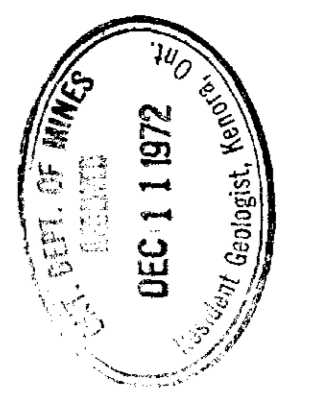
RATIO 1:10 PHASE 1, 2
 RATIO 1:50 PHASE 1, 2
 RATIO 1:100 PHASE 1, 2

LOOPS

0 20M 4E ON 20M
 P 4E 37E ON 20M
 D 20M 4E 20S ON
 S 20M 4E 14S ON
 T 4E 37E 40S 20S
 U 30E 4E 20S 40S
 V 4E 20M 20S 40S

CONDUCTOR

○ STRONG
 ○ WEAK
 ○ INDEFINITE



526/14 SW-0023 #7

TURAM SURVEY
 GEOSEARCH CONSULTANTS LTD.
 SCURRY-RAINBOW OIL LIMITED

FOR LOCATION MAP - SEE MAP 72-451
 FOR CLAM MAP - SEE MAP 72-452

WEST GRID, BLOCKS G-L
 BRIARCLIFF OPTION
 STURGEON LAKE, ONTARIO



260

JULY, 1972

72-455