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REPORT ON GEOPHYSICAL SURVEYS

CLAIMS 496559 and 496560

NORTHERN SILVER FOX RESOURCES INC.

TUDHOPE TOWNSHIP, ONTARIO.

INTRODUCTION

Northern Silver Fox Resources Inc. owns twelve contiguous unpatented mining claims in Tudhope Twp., Larder Lake Mining Division, Ontario. The claims are numbered 475794 to 6 inclusive, 476735 and 6, 494537 to 41 inclusive and 496559 and 60. They comprise 480 acres. Geophysical surveys of magnetic, electromagnetic and radiometric types were conducted on two claims (numbered 496559 and 60) during August, 1978.

GEOPHYSICAL PROGRAM

A control system of base and picket lines was cut on the claims. An east-west base line 2,600' long was cut along the south boundary of the claims and north-south picket lines cut at 200' intervals on Claim 496559 and at 100' intervals on Claim 496560 where an exposure of copper mineralization occurrs. A total of 4.78 miles of line was cut with stations established every 100'.

MAGNETOMETER SURVEY

A Scintrex MP-2 Proton Precession magnetometer was used for the survey. A base station was established off the grid. A total of 238 readings were taken along 4.5 miles of picket line. The results were plotted on a scale of 1" to 100' and contoured at 100 gamma intervals. Total magnetic intensity readings were taken.

ELECTROMAGNETIC SURVEY

A Ronka EM-16 instrument was used for the survey. The survey was conducted using Cutler, Maine at 17.8 kHz as the transmitting source for one survey and Annapolis, Maryland at 24.1 kHz for the other survey. For the survey using Cutler, 217 stations were read and the readings plotted on a scale of 1" to 100' with profiles drawn. A total of 4.25 miles was surveyed.

For the survey using Annapolis, 200 stations were read and the readings plotted on a scale of 1" to 100' and the dip results contoured at intervals of 5%. A total of 4.08 miles was surveyed.

RADIOMETRIC SURVEY

A McPhar TC33A Scintillometer was used for the survey and 212 stations were read and recorded with the instrument being activated between stations as well. A total of 4.25 miles was surveyed. The results in counts per second of radiation were plotted on a scale of

1" to 100' and an attempt made by contouring to observe a pattern. This survey was conducted because of radioactivity being reported previously on these claims.

RESULTS OF GEOPHYSICAL SURVEYS

Magnetometer Survey

Magnetically the claims do not exhibit much contrasting evidence, however faint patterns of lineation are observed in N.70° E. and east-west directions on Claim 496560.

Electromagnetic Survey

Using Cutler for surveying, no conductors were observed. Some lead up near the shores of the pond was noted.

Using Annapolis for surveying, an overburden response in the northwest corner of Claim 496560 probably due to the pond bottom was observed. In the southeast corner of the claim an overburden response due to swamp was noted.

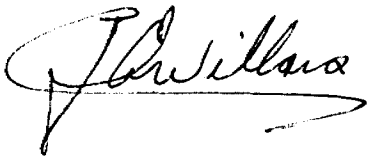
Radiometric Survey

A background of 40 gamma counts per second was apparent. Close interval contouring did not reveal any significant pattern. One reading on Line 19E, Claim 496560, was the highest on the claims and came from a boulder. It was not twice background count.

SUMMARY AND CONCLUSIONS

Nothing of significance was observed from the results of the megnetic, electromagnetic and radiometric surveys and consequently the results will not be useful in locating mineralization of ore tenure.

Respectfully submitted,



Jack G. Willars B.A.Sc., P.Eng.
Consulting Mining Geologist.

New Liskeard, Ontario

August 28,1978.

Ontario

Ministry of Natural Resources

File _____

GEOPHYSICAL – GEOLOGICAL
TECHNICAL DATA

41P09NE8481 2.2783 TUDHOPE

900

TO BE ATTACHED AS AN APPENDIX
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) ELECTROMAGNETIC, MAGNETIC & RADIOMETRIC

Township ~~or Area~~ TUDHOPE

Claim Holder(s) ORIEN E. VENNE
R.R. #2 KENNEBEC, ONT.

Survey Company _____

Author of Report J. G. WILLARS

Address of Author NEW LISKEARD, ONT.

Covering Dates of Survey Aug. 1st to Aug. 28, 1978.
(linecutting to office)

Total Miles of Line Cut 4.8

SPECIAL PROVISIONS
CREDITS 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	40
–Magnetometer	20
–Radiometric	20
–Other	
Geological	
Geochemical	

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

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

DATE: Aug. 28/78 SIGNATURE: J. Willars
Author of Report or Agent

Res. Geol. L.D. Qualifications 63.2165

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)	EM	Mag	Rad
L.	496559	1/4	1/4	1/4
L	496560	1/3	1/4	1/3

If space insufficient, attach list

TOTAL CLAIMS 2

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS If more than one survey, specify data for each type of survey Radiometric 212
Mag. 238
EM- Cutler 217

Number of Stations [redacted] 238 Number of Readings EM-Annapolis 200

Station interval 100' Line spacing 100' and 200'

Profile scale 1" = 10%

Contour interval 5% and 100 gammas

MAGNETIC

Instrument SCINTREX MP-2 PROTON PRECESSION MAGNETOMETER

Accuracy – Scale constant ONE GAMMA

Diurnal correction method DAILY AND HOURLY

Base Station check-in interval (hours)

Base Station location and value

ELECTROMAGNETIC

Instrument RONKA EM 16

Coil configuration

Coil separation

Accuracy

Method: ☒ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency CUTLER 17.8 kHz ANNAPOLIS 24.1 kHz
(specify V.L.F. station)

Parameters measured

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

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

_____

Corrections made _____

_____

RADIOMETRIC

Instrument Mc PHAR TC 33A SCINTOLLOMETER

Values measured TOTAL RADIATION

Energy windows (levels) _____

Height of instrument WAIST LEVEL Background Count 40 CPS

Size of detector _____

Overburden SHALLOW

(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

_____

Additional information (for understanding results) _____

_____

_____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

_____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

_____

_____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

_____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

_____

Drainage Development _____

Estimated Range of Overburden Thickness _____

_____

_____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

_____

_____

_____

General _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

ANALYTICAL METHODS

Values expressed in: per cent ☐
p. p. m. ☐
p. p. b. ☐

Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

_____

_____

_____

_____

_____

_____

_____

_____

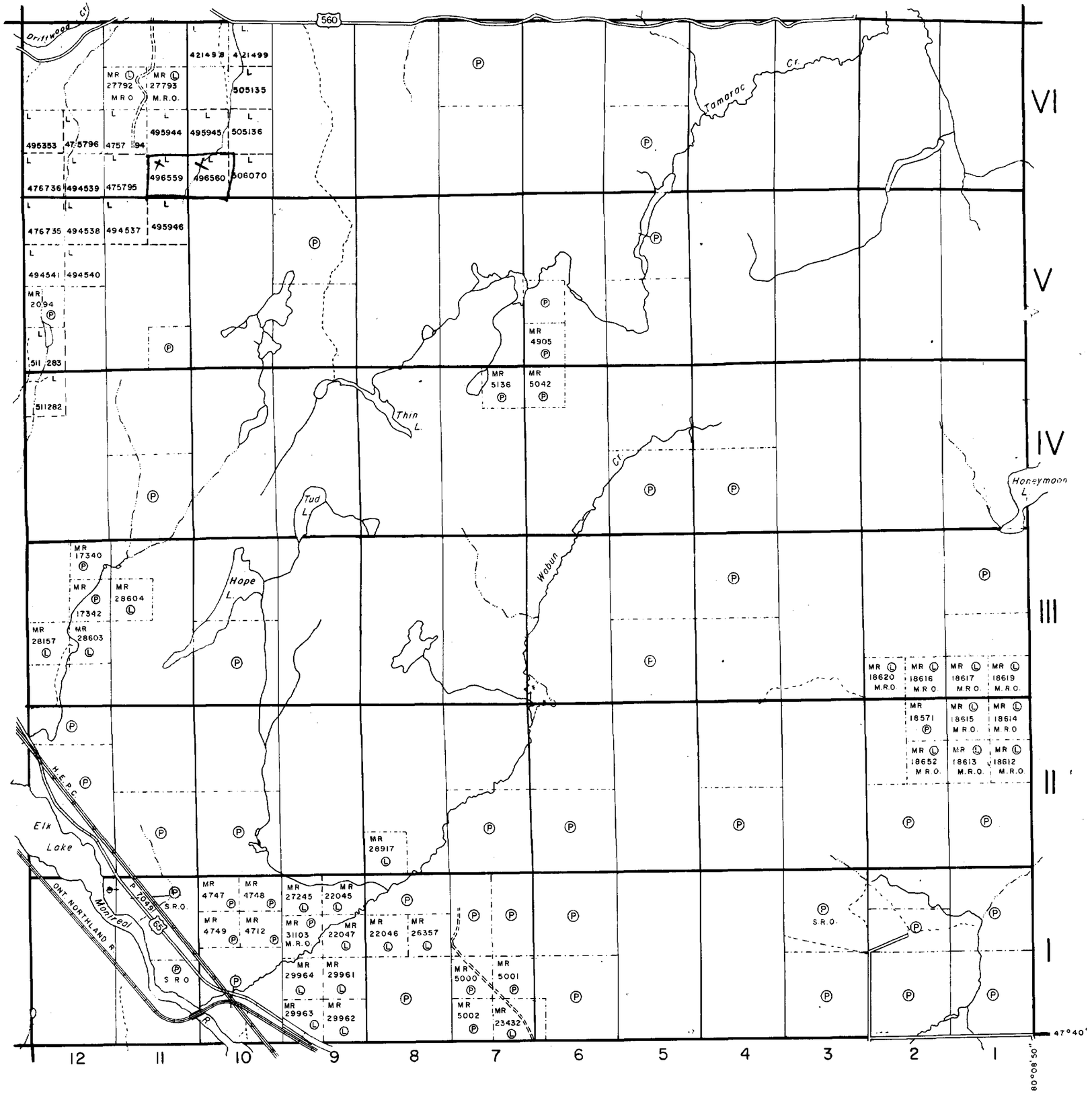
_____

TRUAX TWP M.251

JAMES TWP M.225

BRYCE TWP M.282

BARBER TWP M.208



NOTES

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

Township closed to staking effective May 8, 1978, Sec. 387 of The Mining Act.

DATE OF ISSUE
SEP 12 1978
SURVEYS AND MAPPING BRANCH

LEGEND

PATENTED LAND	Ⓟ or ●
PATENTED FOR SURFACE RIGHTS ONLY	◔
LEASE	Ⓛ
LICENSE OF OCCUPATION	L.O.
CROWN LAND SALES	C.S.
LOCATED LAND	Loc.
CANCELLED	C.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
HIGHWAY & ROUTE NO.	17
ROADS	
TRAILS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	

*used only with summer resort locations or when space is limited

TOWNSHIP OF

TUDHOPE

2.2783

DISTRICT OF
TIMISKAMING

LARDER LAKE
MINING DIVISION

SCALE : 1 INCH 40 CHAINS (1/2 MILE)

DR. JBK	PLAN NO. M. 252
DATE May '72	

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

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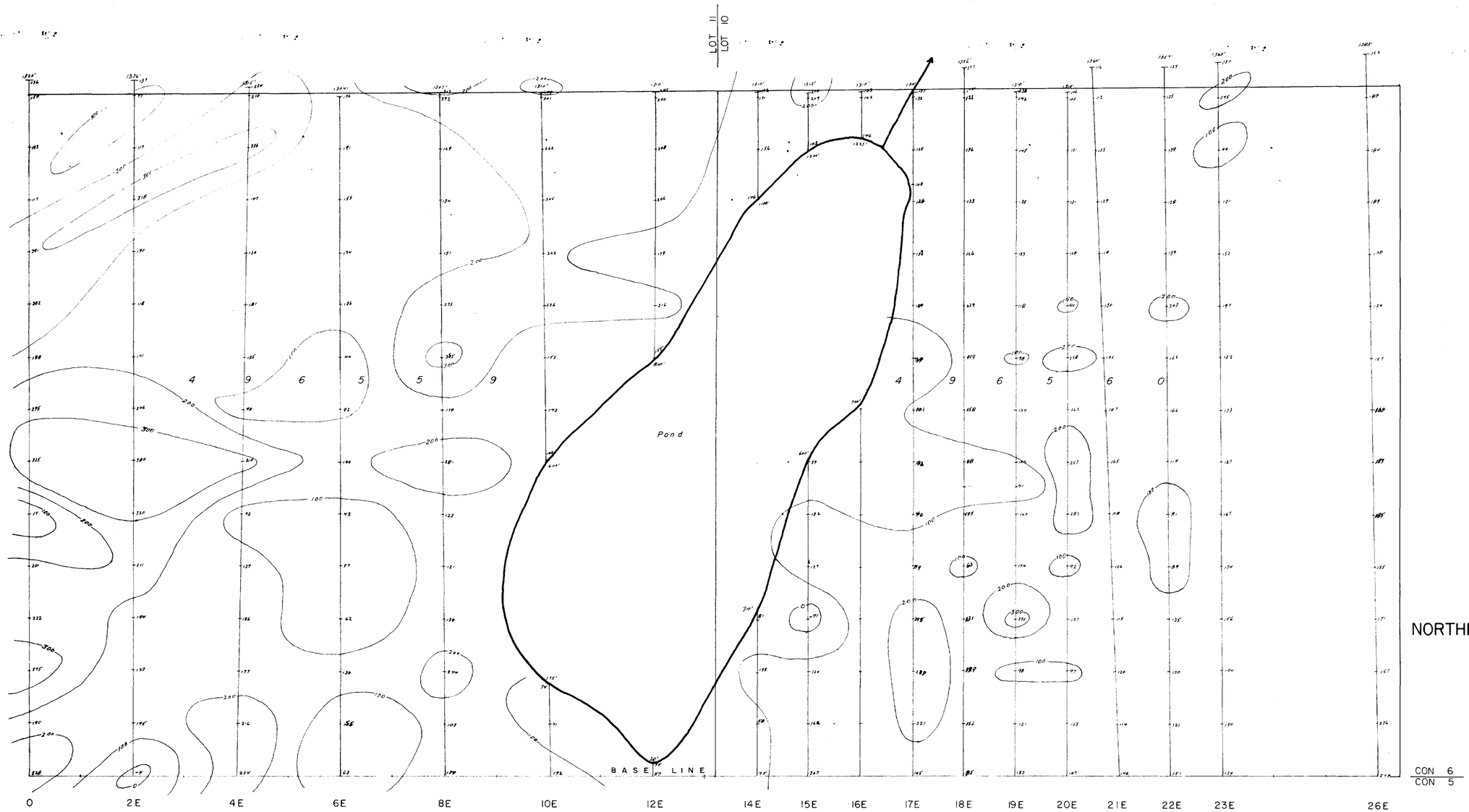


North

MAGNETOMETER DATA

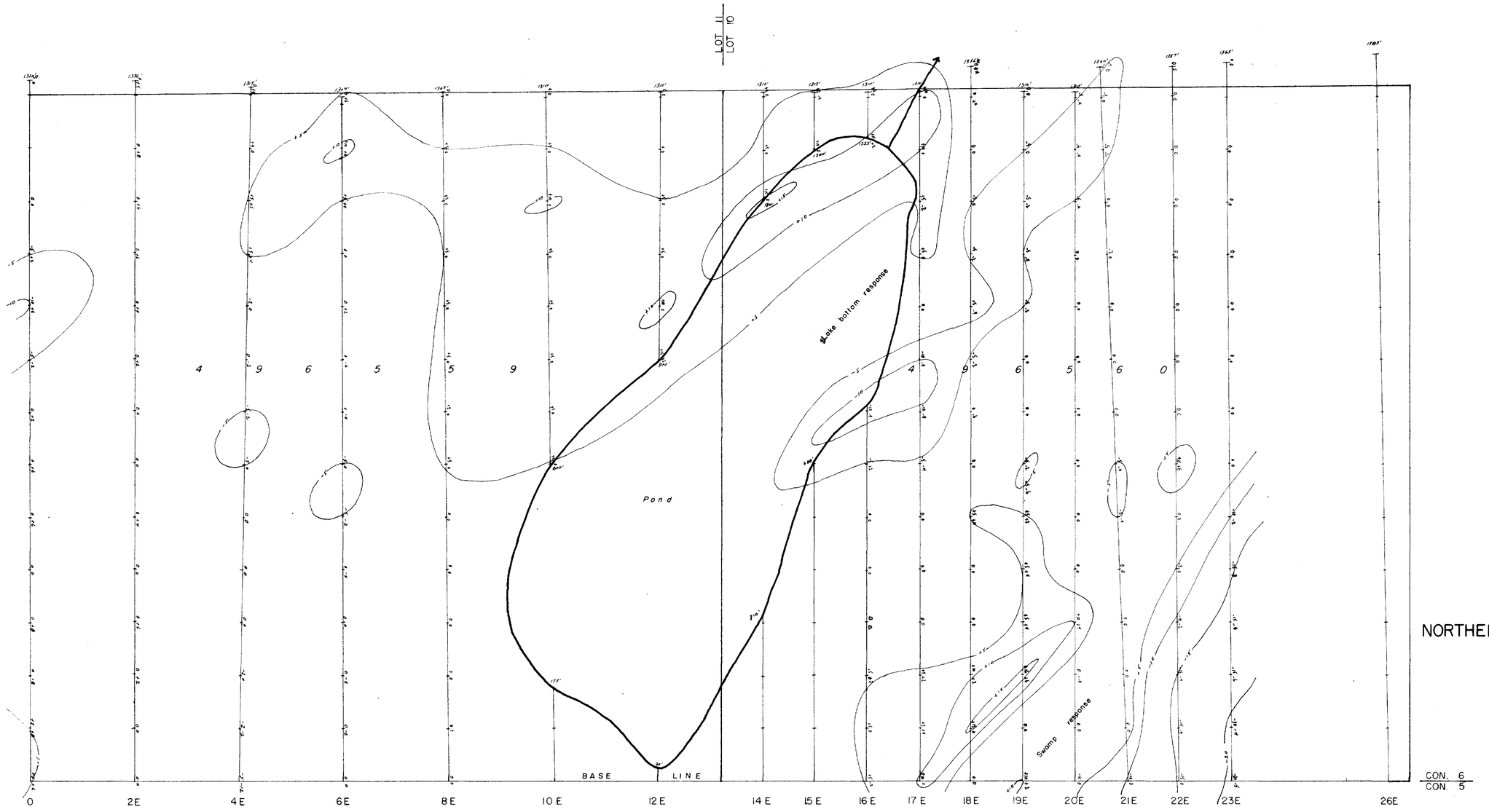
ADD 59000 GAMMAS TO ALL READINGS
CONTOUR INTERVAL 100 GAMMAS
SCINTREX MP 2 PRECESSION INSTRUMENT

MAGNETOMETER SURVEY
CLAIMS 496559 & 60

NORTHERN SILVER FOX RESOURCES INC.

TUDHOPE TWP., ONT.
SCALE 1" = 100'

J. G. WILLARS AUG. 1978



North

ANNAPOLIS, MARYLAND
21.4 KHZ

E. M. DATA

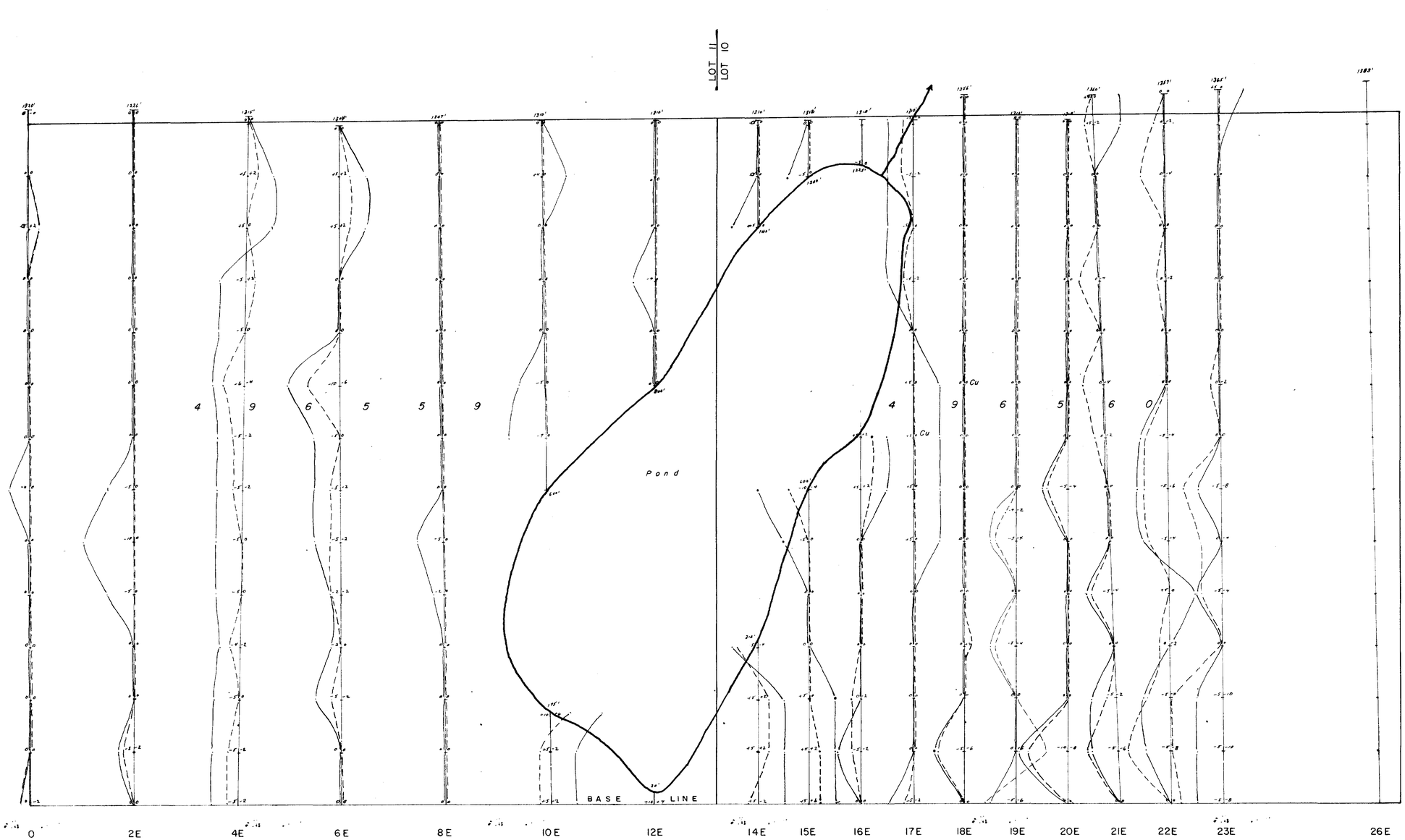
DIP VALUES RECORDED LEFT & QUADRATURE RIGHT
DIP VALUE CONTOUR INTERVAL 5%
CONDUCTOR AXIS

VLF EM SURVEY
CLAIMS 496559 & 60

NORTHERN SILVER FOX RESOURCES INC.

TUDHOPE TWP, ONT.
SCALE: 1 "= 100'

J. G. WILLARS AUG. 1978



North

CUTLER, MAINE
17.8 KHZ

E. M. DATA

DIP VALUES RECORDED TO LEFT, QUADRATURE TO RIGHT
POSITIVE VALUES PLOTTED RIGHT, NEGATIVE LEFT.
SCALE 1" = 10 %
DIP PROFILE ——— QUADRATURE - - -
CONDUCTOR AXIS ———

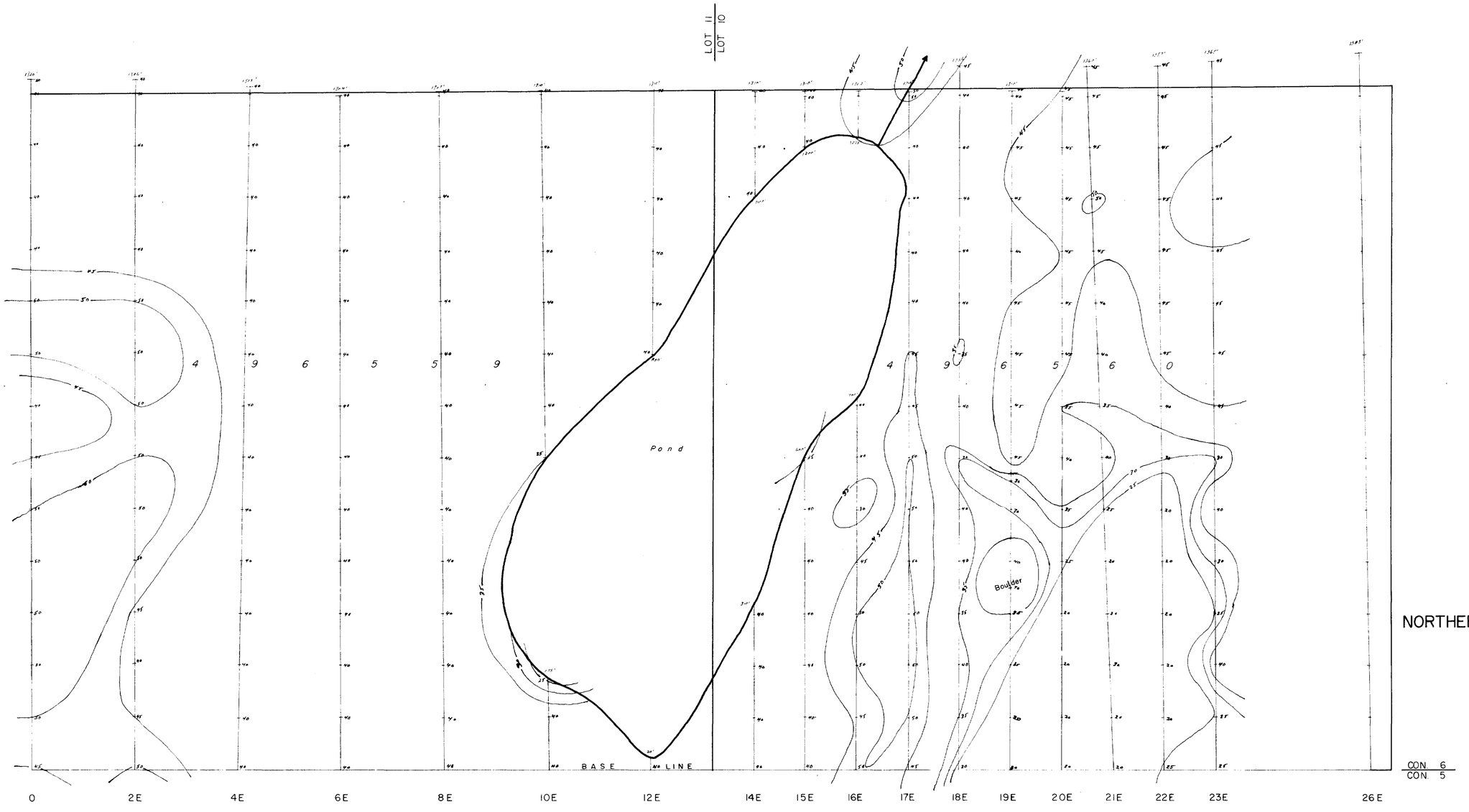
VLF E M SURVEY
CLAIMS 496559 & 60

NORTHERN SILVER FOX RESOURCES INC.

TUDHOPE TWP, ONT.
SCALE 1" = 100'

J. G. WILLARS AUG. 1978

Aug 28/78



North

McPhar TC 33A Scintillometer used

BACKGROUND 40 C.P.S.

CONTOUR INTERVAL 5 C.P.S.

RADIOMETRIC SURVEY
CLAIMS 496559 & 60

NORTHERN SILVER FOX RESOURCES INC.

TUDHOPE TWP, ONT.
SCALE 1" = 100'

J. G. WILLARS
AUG. 1978

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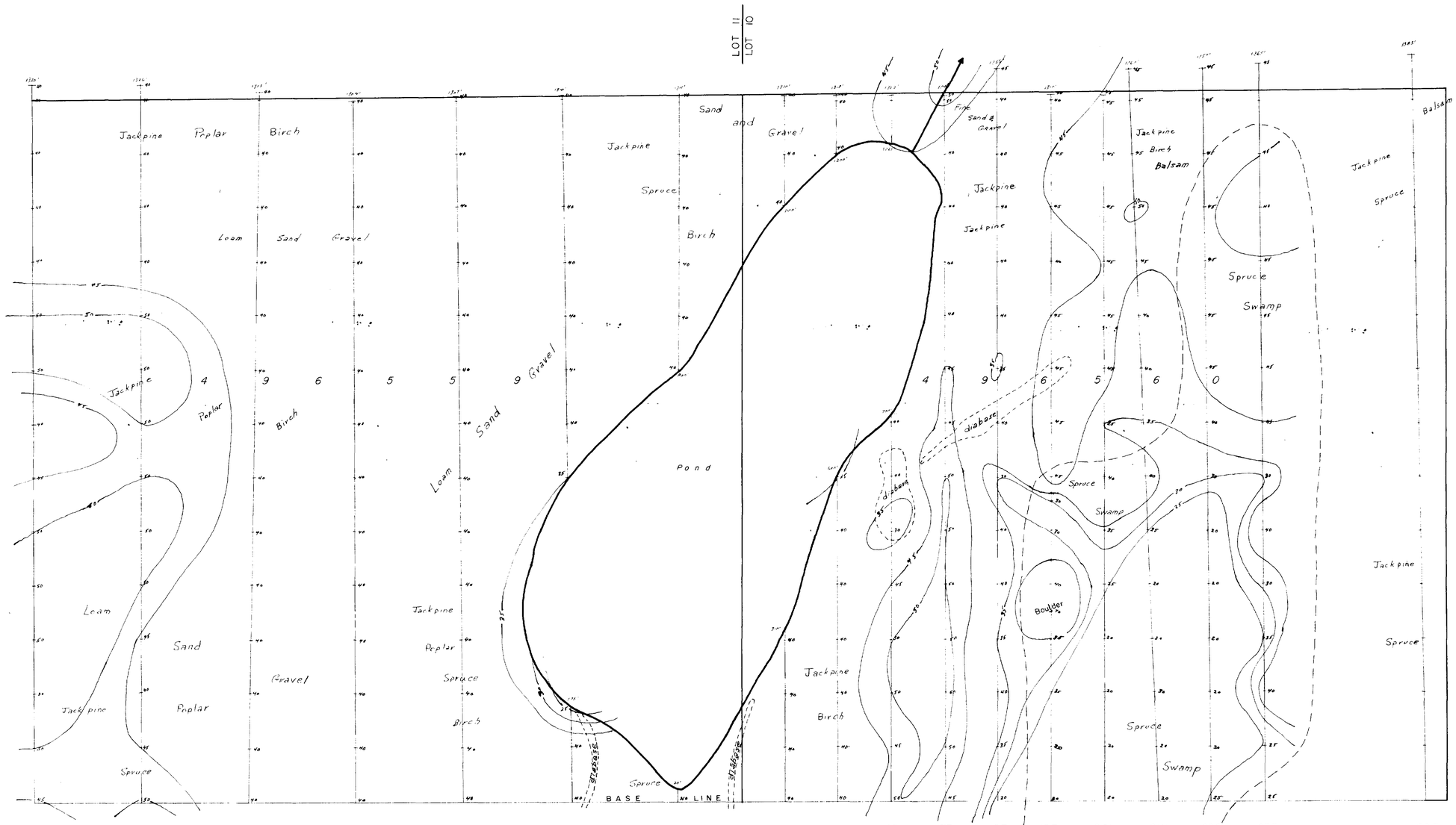

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McPhar TC 33A Scintillometer used

BACKGROUND 40 C.P.S.

CONTOUR INTERVAL 5 C.P.S.

RADIOMETRIC SURVEY
CLAIMS 496559 & 60

NORTHERN SILVER FOX RESOURCES INC.

TUDHOPE TWP, ONT.
SCALE 1"= 100'

J. G. WILLIAMS AUG. 1978