010

GRID DATA North Ltd

Tel: (416) 891-2245 Fax: (416) 271-4414

AEROMAGNETIC AND VLF SURVEY

of

TACK AND ROGER LAKES

for

A. JAMES WALKER

by

GRID DATA NORTH LTD

2.12741

Duplicate

9 August, 1989

TABLE OF CONTENTS

1. INTRODUCTION

A helicopter-borne aeromagnetic and VLF-EM geophysical survey was conducted on the Tack Lake and Roger Lake properties in March, 1989 by Grid Data North Ltd. The purpose of the survey was to obtain a unified geophysical data set which could be used in combination with known geology to help evaluate the mineral potential of the properties and to guide any further exploration work.

The survey delineated several VLF-EM conductors on each property. Two strong magnetic anomalies wre located, one centred on the Tack Lake property and the other just north-east of the Roger Lake property.

The maps in section 8 of this report describe the area surveyed and the results obtained.

The total distance in each survey and distance flown over each property was

Property	Total Distance Flown	Distance over Property
Tack Lake	172.2 km	16.2 km
Roger Lake	44.8 km	8.4 km

2. DESCRIPTION OF PROPERTY

The two properties covered by this survey consist of 3 and 2 contiguous, unpatented mining claims at Tack Lake and Roger Lake as listed below;

PROPERTY DESCRIPTION	CLAIM NUMBER	TOWNSHIP
A. TACK LAKE	1056972	Killala
	1056973	Killala
	1056974	Killala/Baird
B. ROGER LAKE	1056975	Baird
	1056976	Baird

A location map for these two properties is provided in Map Section 8.1, Figures A and B.

2.1 Previous Work

(a) Tack Lake Property

No previous work has been brought to the author's attention.

(b) Roger Lake Property

Surface work and an unknown amount of drilling was performed in 1937. No other work on the property was recorded until 1975, when Selco completed magnetometer and HLEM surveys. The following year, 2 holes were drilled totalling 193.4 m. They showed a sulphide-rich zone about 6 metres wide, dipping steeply to the north.

3. DETAILS OF SURVEY

3.1 Data Acquisition

The airborne geophysical survey was flown using an Aerospatiale AS350 helicopter based at Balmertown, Ontario. Aeromagnetic and VLF-EM data were acquired on 2,3,4 March, 1989 by Grid Data North Ltd, Mississauga, Ontario. Survey equipment and specifications are outlined below:

Line Spacing	:	100 metres
Line Directions	:	0/180 degrees 90/270 degrees
Terrain Clearance	:	80 metres (helicopter) 55-65 metres (magnetometer and VLF sensors)
VLF System	:	Hertz Totem-2A
VLF Stations	:	NLK (Seattle), 24.8 kHz NSS (Annapolis), 21.4 kHz
Magnetometer System	:	Scintrex MAC-3 with cesium vapour sensor
Data Acquisition Rate	:	Magnetometer = 5 Hz, VLF-EM = 1 Hz
Air Speed	:	100 km/hour (approximate)
Navigation	:	Visual using 1:15,000 scale photography
Flight Path Record	:	Video camera
Magnetic Base Station	:	EDA model PPM-400

3.2 Data Processing and Presentation

Data processing and presentation was performed by Tesla-10 Ltd, Mississauga, Ontario.

Flight path recovery was done using video images and controlled photos at 1:7,500 scle. The aeromagnetic data was corrected for diurnal variation using the base station data and is presented at 1:5,000 scale in contour and profile map form.

Raw total field and quadrature VLF-EM profile maps were prepared at 1:5,000 scale. A selected band-pass filter was applied to the VLF total field data prior to gridding for contour presentation (Tack Lake).

4. DISCUSSION OF RESULTS

4.1 Tack Lake Property

The magnetic maps delineate a relatively strong magnetic anomaly of about 300 nT positioned in the centre of this 3 claim group. It is about 170 metres wide by 450 long and appears to be caused by an instrusive body.

The VLF-EM maps (NLK, Seattle) reveal the presence of several conductors. The strongest trend, running roughly NE/SW through the eastern boundary of the claim group appears to be associated with a fault.

4.2 Roger Lake Property

The magnetic maps delineate an elongated magnetic anomaly of greater than 300 nT located just east of the north-east corner of the property.

The VLF-EM maps (NLK, Seattle) show a relatively strong conductive response at the centre of the northern half of the property.

5. CONCLUSIONS

The geophysical data has delineated both structural and lithological features of the two properties. This data set should be evaluated in a regional context using, for example, results of the OGS airborne electromagnetic and total intensity magnetic survey flown by Questor Surveys in 1977 (OGS maps P1580 and P1578). The data from this survey should also be interpreted with respect to known geological information for the area.

6. SIGNATURE

I, Bart St. John-Smith, of the city of Toronto, Province of Ontario, do hereby certify that:

1. I am a Geophysicist residing at 11 Ashby Place, Toronto, Ontario.

2. I have graduated from the University of Toronto, Toronto, Ontario.

3. I have been actively engaged in geophysical exploration since 1969.

4. I am presently employed by Grid Data North Ltd.

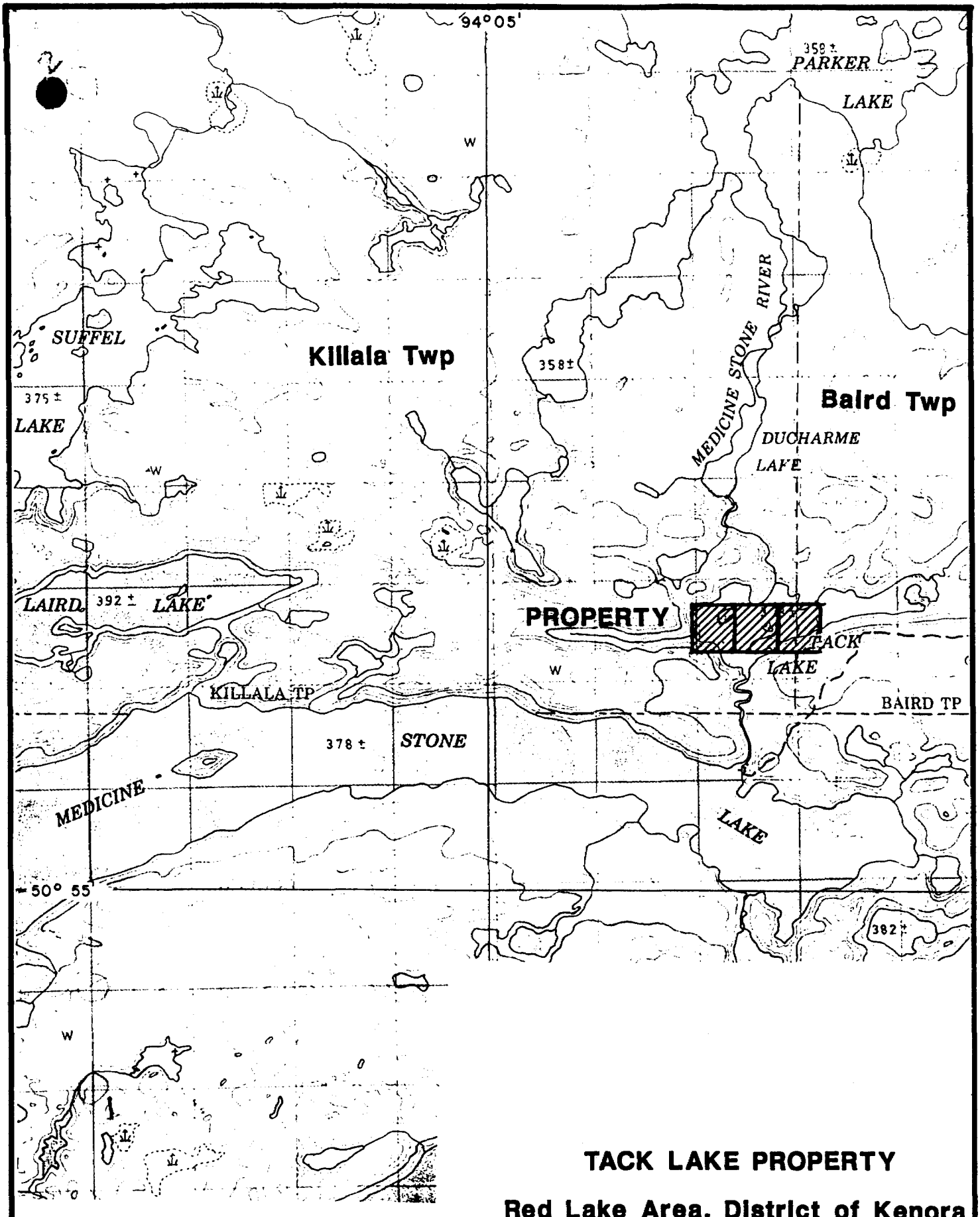
5. The statements made in this report represent by best opinions and judgement.

6. I supervised the survey work described in this report.

Dated at Mississauga this 11th day of August, 1989

B. St. John-Smith
Chief Geophysicist

Qual this report



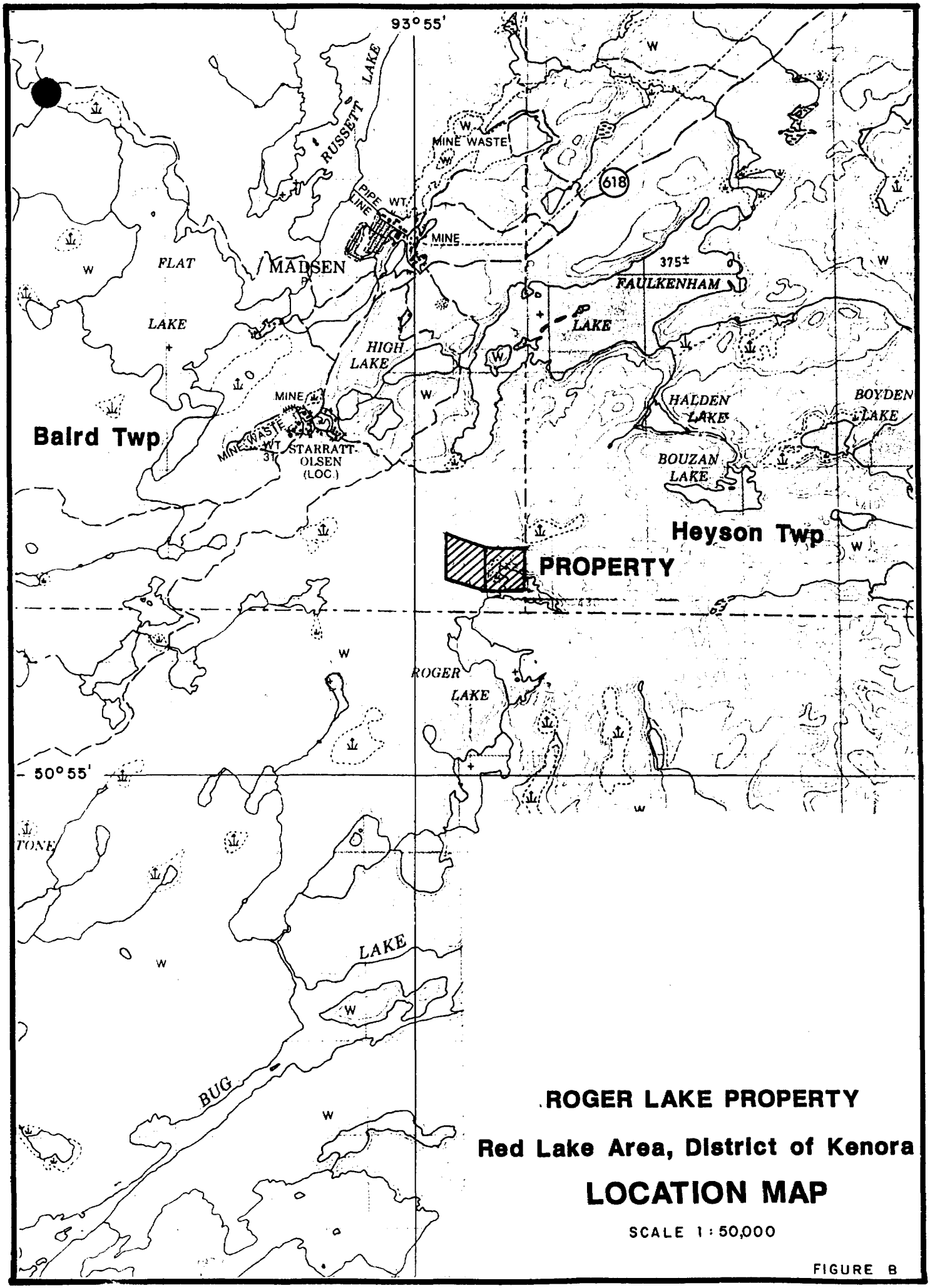
TACK LAKE PROPERTY

Red Lake Area, District of Kenora

LOCATION MAP

SCALE 1 : 50,000

FIGURE A



ROGER LAKE PROPERTY

Red Lake Area, District of Kenora

LOCATION MAP

SCALE 1:50,000

FIGURE B

Ministry of Northern Development and Mines

Ontario

Geophysical-Geological-Geochemical Technical Data Statement

File _____

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) Airborne

Township or Area Killala and Baird

Claim Holder(s) A. James Walker
Oakville, Ontario

Survey Company Grid Data North Ltd.

Author of Report Bart St. John-Smith

Address of Author 11 Ashby Place, Toronto, Ontario M5A 3E3

Covering Dates of Survey March 2 - 4, 1989
(linecutting to office)

Total Miles of Line Cut _____

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	
—Magnetometer	
—Radiometric	
—Other	
Geological	
Geochemical	

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

Magnetometer 40 Electromagnetic 40 Radiometric _____
(enter days per claim)

DATE: Dec 9 1989 SIGNATURE: B. St. John-Smith
Author of Report or Agent

Res. Geol. _____ Qualifications this report

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
KRL	1056972
KRL	1056973
KRL	1056974
KRL	1056975
KRL	1056976

If space insufficient, attach list

TOTAL CLAIMS 5

OFFICE USE ONLY

837 (85/12)

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

_____

Corrections made _____

_____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(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) Magnetic and VLF-EM

Instrument(s) Magnetometer - Scintrex MAC-3 cesium vapour. VLF - Hertz Totem-2A

(specify for each type of survey)

Accuracy Magnetometer = 0.01 nT; VLF-EM - 0.1%

(specify for each type of survey)

Aircraft used Aerospatiale AS350 Helicopter

Sensor altitude 55 - 65 metres

Navigation and flight path recovery method Visual on 1:15,000 photography and video camera

_____

Aircraft altitude 80 metres Line Spacing 100 metres

Miles flown over total area Tack Lake 172.2 Over claims only 16.2

Roger Lake 44.8 8.4

Ontario

Northern Development and Mines

(Geophysical, Geological, Geochemical and Expenditures

Mining Ac

52K13NW9994 2.12741 HEYSON

900

Type of Survey: Geophysical (Airborne) 2.12741 Killala & Baird

Claim Holder(s): A. James Walker

Prospector's Licence No.: A 32859

Address: 406 Canterbury Crescent, Oakville, Ontario L6J 5K7

Survey Company: Grid Data North Ltd.

Date of Survey (from & to): Day 02 Mo. 03 Yr. 89 — Day 04 Mo. 03 89

Total Miles of line Cut:

Name and Address of Author (of Geo-Technical report): Bart St. John-Smith 11 Ashby Place, Toronto, Ontario

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical	
	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical	
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	40
	Magnetometer	40
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
KRL	1056972	80
	1056973	80
	1056974	80
	1056975	80
	1056976	80

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

ONTARIO GEOLOGICAL SURVEY ASSESSMENT FILES OFFICE SEP 29 1989 RECEIVED

RECEIVE 1 1989 MINING LANDS SE

RECEIVED SEP 8 1989 RED LAKE MINING DIV.

Expenditures (excludes power stripping)

Type of Work Performed:

Performed on Claim(s):

Calculation of Expenditure Days Credits

Total Expenditures: S ÷ 15 = Total Days Credits:

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work: 5

For Office Use Only

Total Days Cr. Recorded: 400

Date Recorded: Sept 8, 1989

Date Approved as Recorded: Sept 27, 1989

Mining Recorder

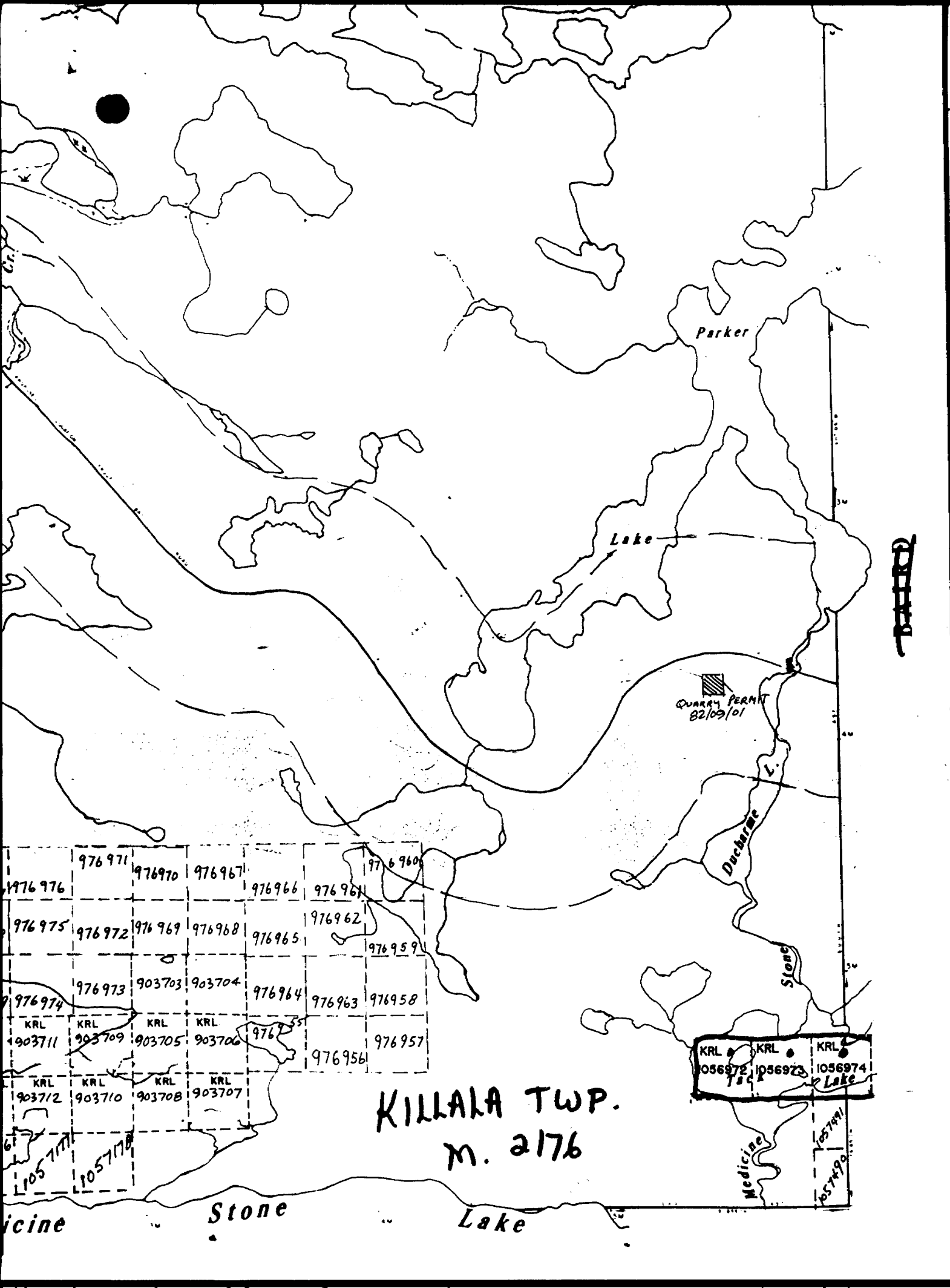
Date: August 22, 1989

Recorded Holder or Agent (Signature):

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: Bart St. John-Smith


Parker
Lake
QUARRY PERMIT
82/09/01
Duchaine L.
Stone
Lake
Medicine
976971
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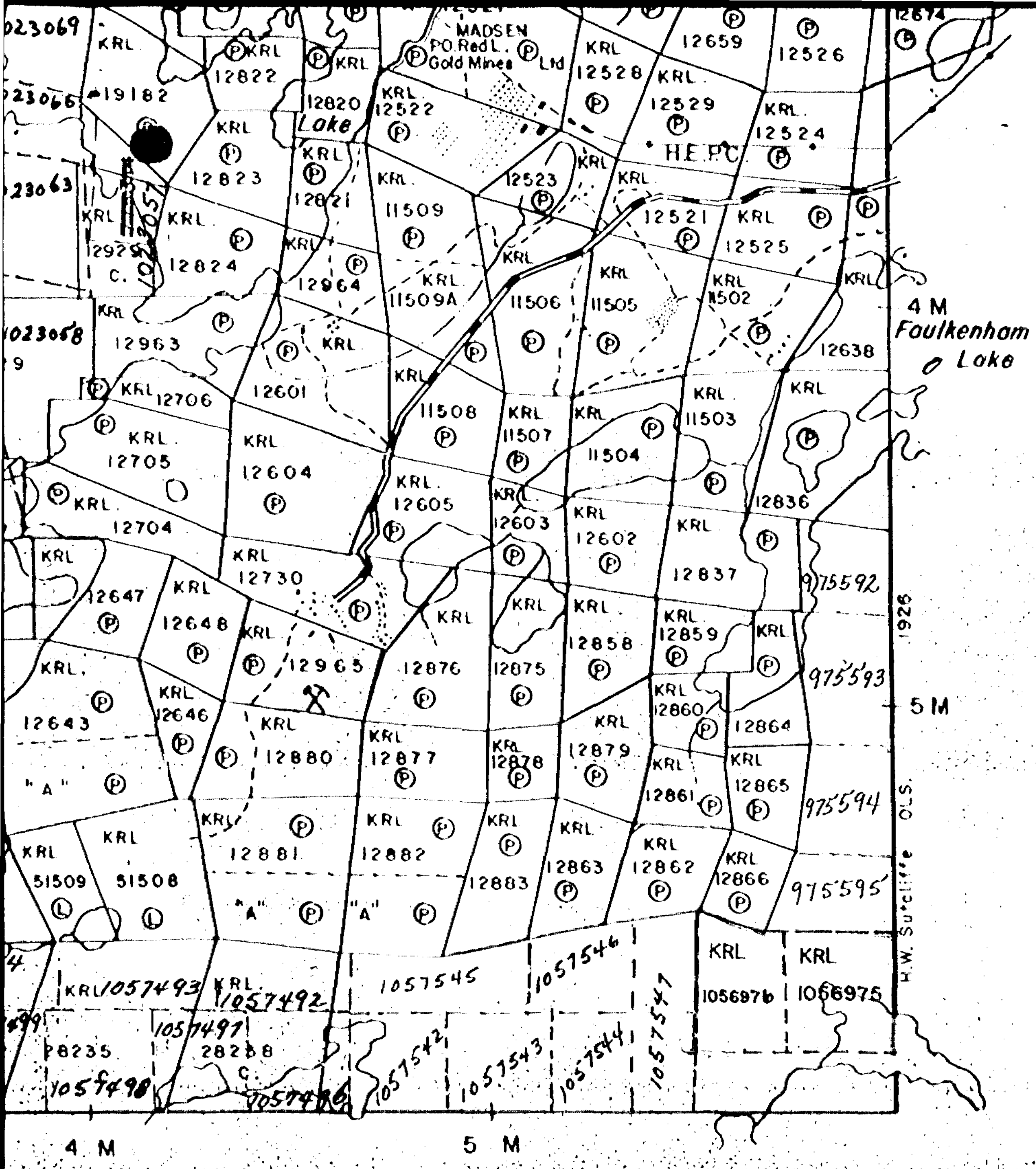
KRL 903710
KRL 903708
KRL 903707
KRL 1056972
KRL 1056973
KRL 1056974
Lake
1057491
1057490
KILLALA TWP.
M. 2176



KAIRD TWP.

M. 2138

40

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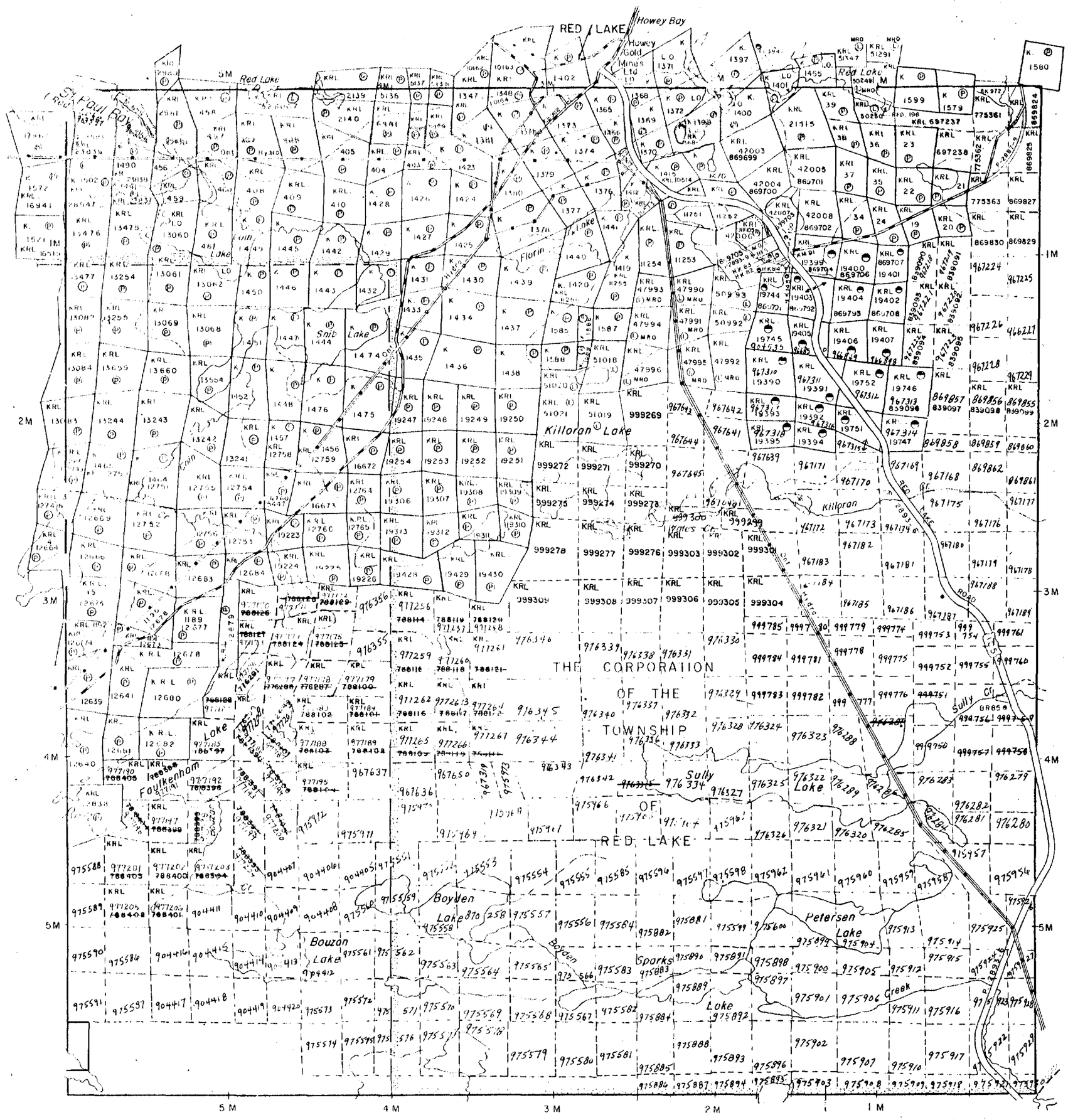
MIN

Dome Twp.



Baird Twp.

Byshe Twp.

THE TOWNSHIP
OF

HEYSON

DISTRICT OF
KENORA
(PATRICIA PORTION)

RED LAKE
MINING DIVISION

SCALE: 1-INCH 40 CHAINS

LEGEND

PATENTED LAND	● or Ⓟ
CROWN LAND SALE	C.S.
LEASES	Ⓛ
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	C.
PATENTED S.R.O.	◓

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+S. – MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
(RF 105) Lease # 5790	W 58/75 CL 4728	15/10/75 1 MAR 88	S.R.O. S.R.O.	176054 60544

Ontario Ministry of Natural Resources
Ministry of Northern Development and Mines

AUGUST, 1986

G-3736

200

Fairlie Twp. (M. 2158)

THE CORPORATION OF THE TOWNSHIP OF RED LAKE

Red Lake

St. Paul Bay

Parker Lake

Killala Twp. (M. 2176)

Heyson Twp. (M. 2170)

Fiat Lake

Faulkenham Lake

Location

Trout Bay Road

Russot

Shirley King OLS 1937

THE TOWNSHIP OF

BAIRD

DISTRICT OF
KENORA
PATRICIA PORTION

RED LAKE
MINING DIVISION

SCALE: 1-INCH 40 CHAINS

LEGEND

PATENTED LAND	P
CROWN LAND SALE	C.S
LEASES	L
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	C.

NOTES

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

Areas withdrawn from staking under Section 43 of the Mining Act

C.A.	File	Date	Disposition
W.10/76	128430	15/3/76	S.R.O.

RED LAKE MINING DIVISION
JUN 7 1989
RED LAKE, ONTARIO

PLAN NO. M. 2138

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

52K13NW9994 2.12741 HEYSON

LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
  - TOWNSHIPS, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

AREAS WITHDRAWN FROM DISPOSITION

S.R. – SURFACE RIGHTS M.R. – MINING RIGHTS

Description	Order No.	Date	Disposition	File

TODD

MULCAHY

BAIRD

Red Lake

Wolf Narrows

Parker Lake

Suffel

Suffel Lake

Leitch Lake

Leitch

Lake

Quarry Permit 82/09/01

Duckmine

Stone Lake

Medicine Stone Lake

DISPOSITION OF CROWN L[illegible]

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	◒
" MINING RIGHTS ONLY	◒
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	▣
" MINING RIGHTS ONLY	▣
LICENCE OF OCCUPATION	▼
ORDER IN COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊘
SAND & GRAVEL	(S)

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO M[illegible] 1913, VESTED IN ORIGINAL PATENTEE BY THE [illegible] LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 61 [illegible]

RED LAKE MINING DIVISION
MAY 4 1999
RED LAKE, ONTARIO

400' surface rights reservation along the shores of all lakes [illegible]

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000

METRES 0 200 1000 (1 KM) 2000 (2 KM)

ACRES	HECTARES
40	16

TOWNSHIP OF

KILLALA

DISTRICT KENORA
PATRICIA PORTION
MINING DIVISION
RED LAKE

Ministry of Natural Resources — Surveys and Mapping Branch, Ontario

Date	Plan No.
7 / FEB / 1980.	M-2176
National Topographic Series	

52K13NW9994 2.12741 HEYSON

KILLALA TWP.

BAIRD TWP

94°03'00"

94°02'30"

94°02'00"

50°56'40"

50°56'30"

50°56'20"

50°56'10"

Lake

5644000N

5643750N

5643500N

5643250N

5643000N

426000E

426500E

427000E

TACK LAKE

1056972

1056973

1056974

SURVEY SPECIFICATIONS

BASE STATION	:	EDA PPM - 375 MAGNETOMETER
MAGNETOMETER	:	SCINTREX MAC - 3
VLF ELECTROMAGNETIC SYSTEM	:	TOTEM 2A
VLF STATIONS	:	INLINE NLK Seattle ORTHO NSS Annapolis
MEAN TERRAIN CLEARANCE	:	60 METERS
LINE SPACING	:	100 METERS
LINE DIRECTION	:	0 - 180 DEGREES 90 - 270 DEGREES
DATE	:	February 1989

Processed by TESLA-10 LTD
Mississauga Ontario

SURVEY CONTRACTORS
GEOTECH LTD
Markham, Ontario
GRID DATA NORTH LTD
Mississauga Ontario

N

0 100 200 300 400 500m

Scale 1:5000

UNIVERSAL TRANSVERSE MERCATOR GRID
ZONE 15

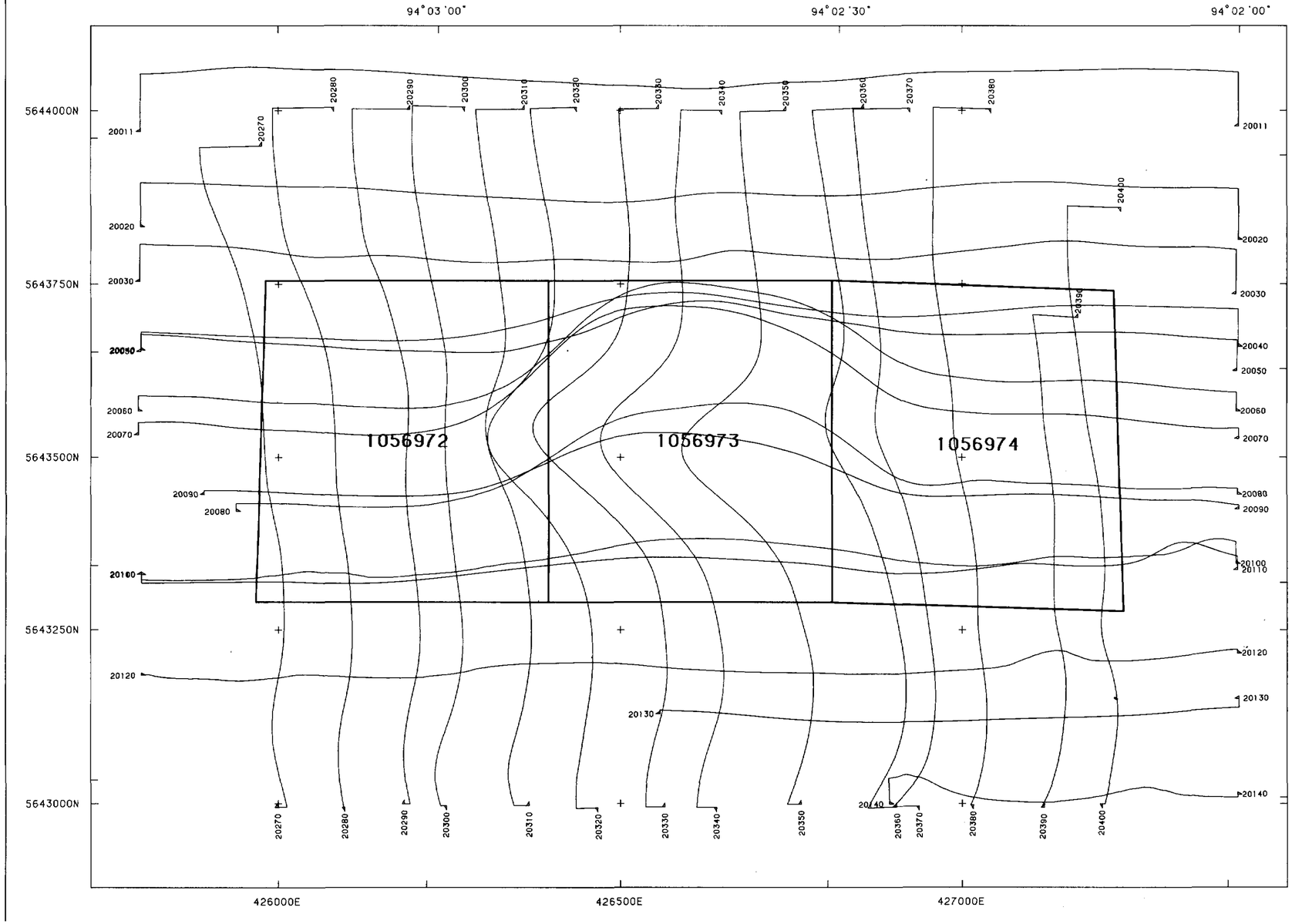
2.12741

A. JAMES WALKER

TACK LAKE ONTARIO
KILLALA, BAIRD TWPS

FLIGHT PATH MAP

NTS: 52L/16 | DWG NO: T-6



SURVEY SPECIFICATIONS

BASE STATION	: EDA PPM - 375 MAGNETOMETER
MAGNETOMETER	: SCINTREX MAC - 3
VLF ELECTROMAGNETIC SYSTEM	: TOTEM 2A
VLF STATIONS	: INLINE NLK Seattle ORTHO NSS Annapolis
MEAN TERRAIN CLEARANCE	: 60 METERS
LINE SPACING	: 100 METERS
LINE DIRECTION	: 0 - 180 DEGREES 90 - 270 DEGREES
DATE	: February 1989

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Mississauga Ontario

LEGEND

BASE VALUE 60000 nT
VERTICAL SCALE 100 nT/CM

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Markham, Ontario
GRID DATA NORTH LTD
Mississauga Ontario

N

0 100 200 300 400 500m

Scale 1:5000

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ZONE 15

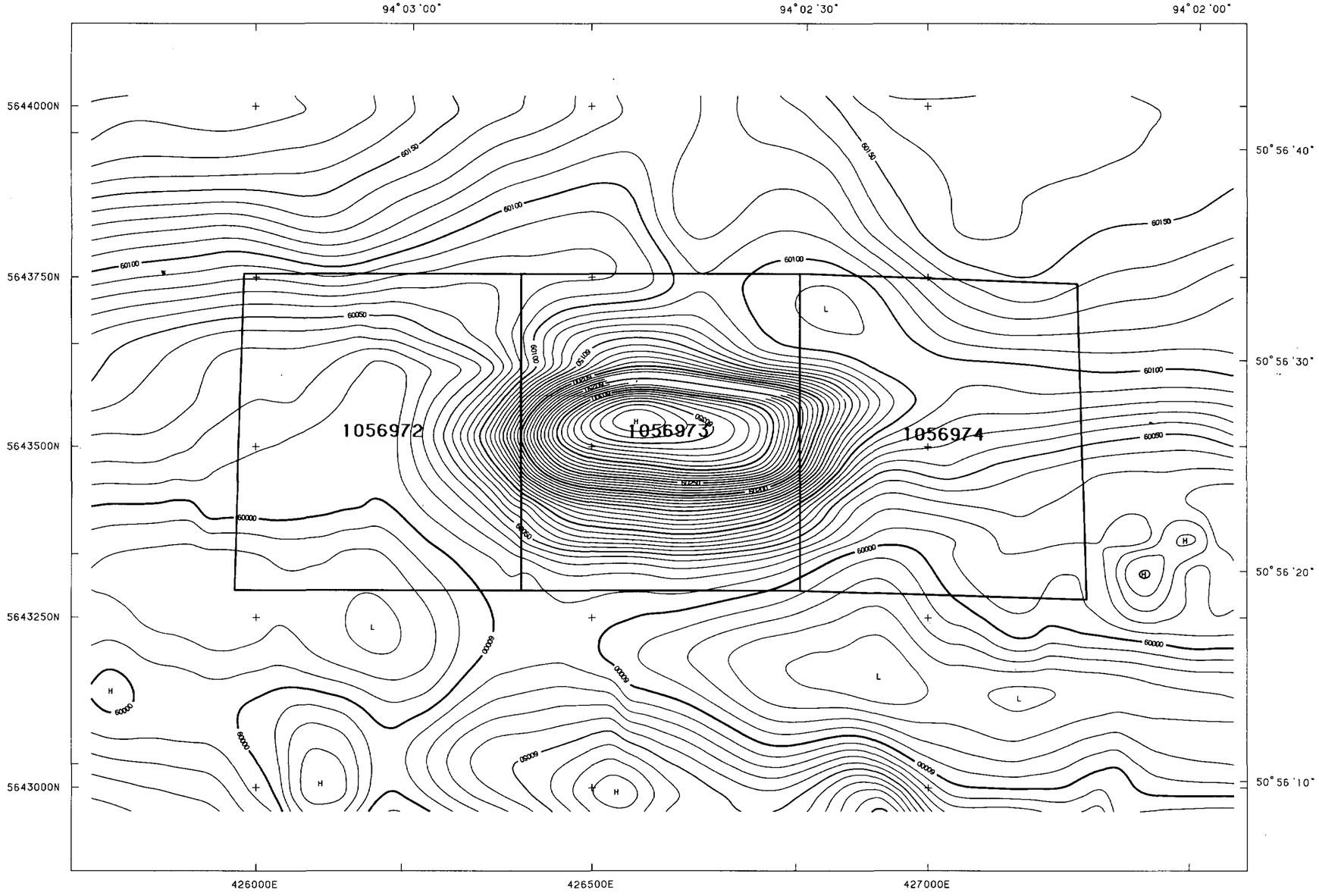
2.12741
A. JAMES WALKER

TACK LAKE ONTARIO
KILLALA, BAIRD TWPS

TOTAL FIELD MAGNETIC PROFILE

NTS: 52L/16	DWG NO: T-2

S2K13NW9994 2.12741 HEYSON



SURVEY SPECIFICATIONS

BASE STATION	: EDA PPM - 375 MAGNETOMETER
MAGNETOMETER	: SCINTREX MAC - 3
VLF ELECTROMAGNETIC SYSTEM	: TOTEM 2A
VLF STATIONS	: INLINE NLK Seattle ORTHO NSS Annapolis
MEAN TERRAIN CLEARANCE	: 60 METERS
LINE SPACING	: 100 METERS
LINE DIRECTION	: 0 - 180 DEGREES 90 - 270 DEGREES
DATE	: February 1989

Processed by TESLA-10 LTD
Mississauga Ontario

LEGEND

CONTOUR INTERVAL 10 nT

10 nT
50 nT
100 nT
1000 nT

SURVEY CONTRACTORS
GEOTECH LTD
Markham, Ontario
GRID DATA NORTH LTD
Mississauga Ontario

0 100 200 300 400 500m
Scale 1:5000

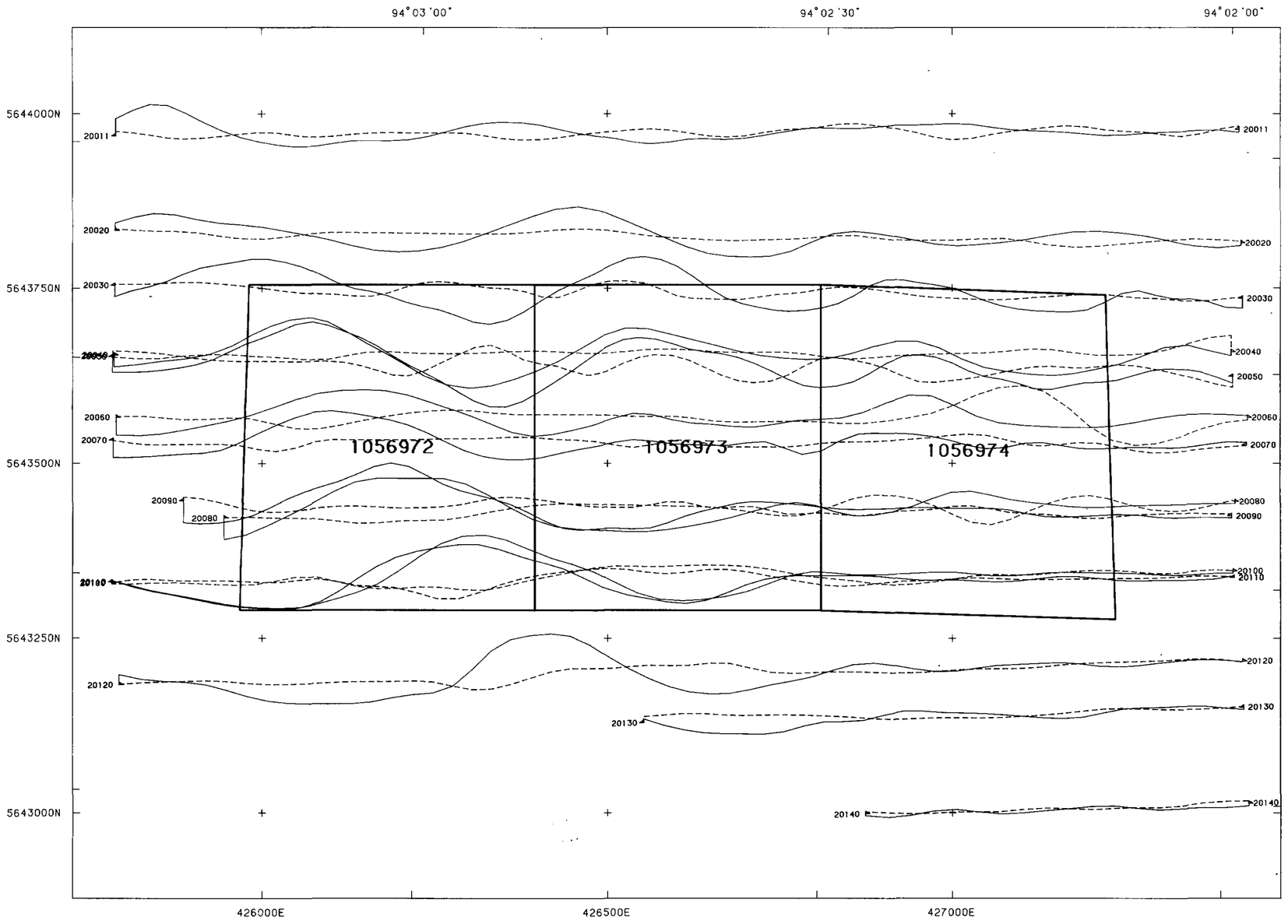
UNIVERSAL TRANSVERSE MERCATOR GRID
ZONE 15

2.12741
A. JAMES WALKER

TACK LAKE ONT.
KILLALA, BAIRD TWPS

TOTAL FIELD MAGNETIC CONTOURS

NTS: 52L/16	DWG NO: T-1



SURVEY SPECIFICATIONS

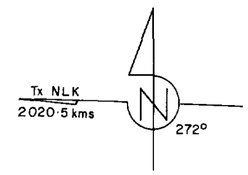
BASE STATION	: EDA PPM - 375 MAGNETOMETER
MAGNETOMETER	: SCINTREX MAC - 3
VLF ELECTROMAGNETIC SYSTEM	: TOTEM 2A
VLF STATIONS	: INLINE NLK Seattle ORTHO NSS Annapolis
MEAN TERRAIN CLEARANCE	: 60 METERS
LINE SPACING	: 100 METERS
LINE DIRECTION	: 0 - 180 DEGREES 90 - 270 DEGREES
DATE	: February 1989

Processed by TESLA-10 LTD
Mississauga Ontario

LEGEND

TOTAL FIELD	———
QUADRATURE	- - - - -
BASE VALUE	0 %
VERTICAL SCALE	10 %/CM

SURVEY CONTRACTORS
GEOTECH LTD
Markham, Ontario
GRID DATA NORTH LTD
Mississauga Ontario



Scale 1:5000

UNIVERSAL TRANSVERSE MERCATOR GRID
ZONE 15

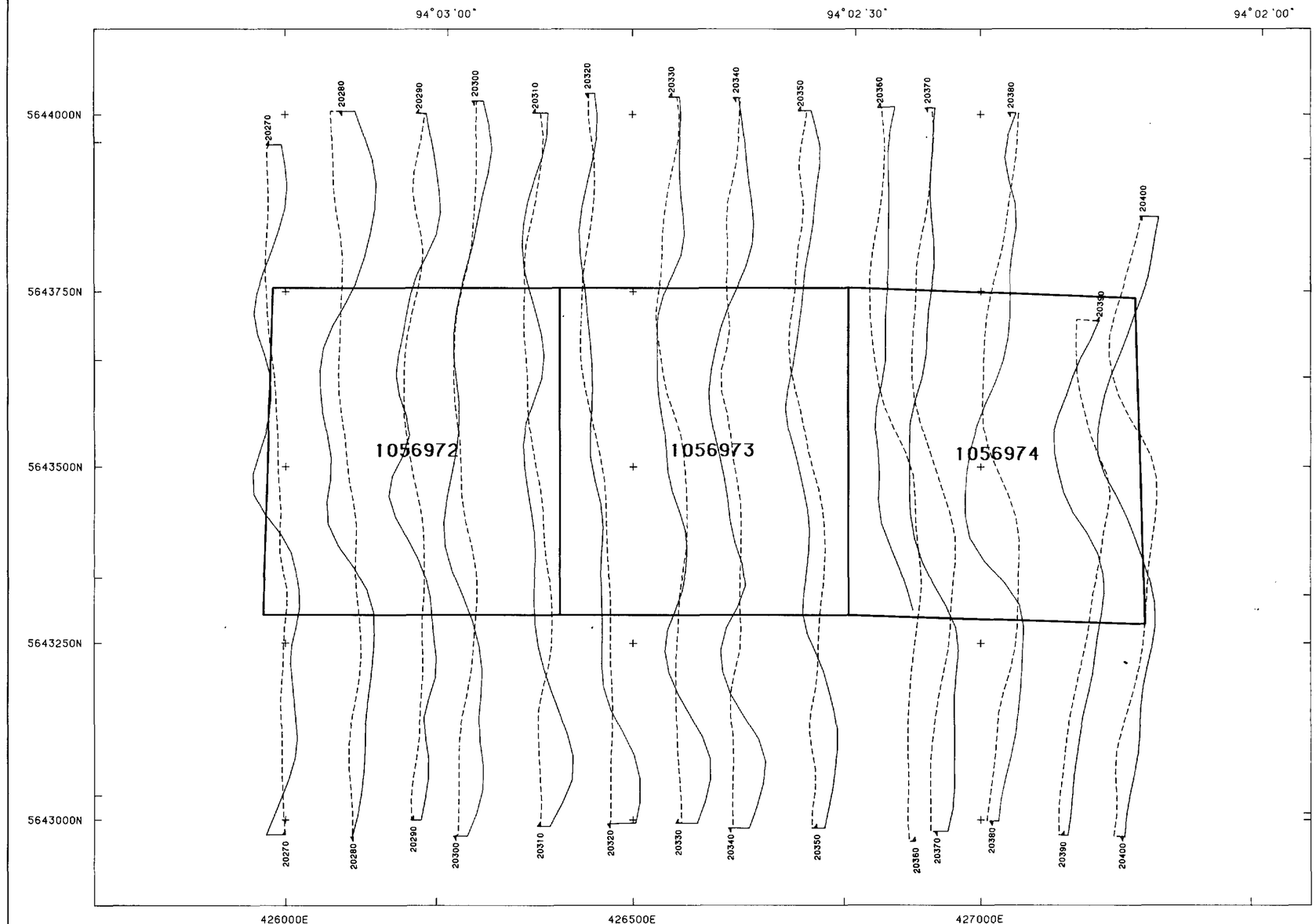
2.12741

A. JAMES WALKER

TACK LAKE ONTARIO
KILLALA, BAIRD TWPS

VLF PROFILES
SEATTLE 24.8 HZ

NTS: 52L/16	DWG NO: T-3



SURVEY SPECIFICATIONS

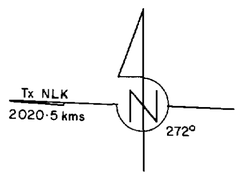
BASE STATION	: EDA PPM - 375 MAGNETOMETER
MAGNETOMETER	: SCINTREX MAC - 3
VLF ELECTROMAGNETIC SYSTEM	: TOTEM 2A
VLF STATIONS	: INLINE NLK Seattle ORTHO NSS Annapolis
MEAN TERRAIN CLEARANCE	: 60 METERS
LINE SPACING	: 100 METERS
LINE DIRECTION	: 0 - 180 DEGREES 90 - 270 DEGREES
DATE	: February 1989

Processed by TESLA-10 LTD
Mississauga Ontario

LEGEND

TOTAL FIELD	————
QUADRATURE	- - - - - - - - -
BASE VALUE	0 %
VERTICAL SCALE	10 %/CM

SURVEY CONTRACTORS
GEOTECH LTD
Markham, Ontario
GRID DATA NORTH LTD
Mississauga Ontario



Scale 1:5000

UNIVERSAL TRANSVERSE MERCATOR GRID
ZONE 15

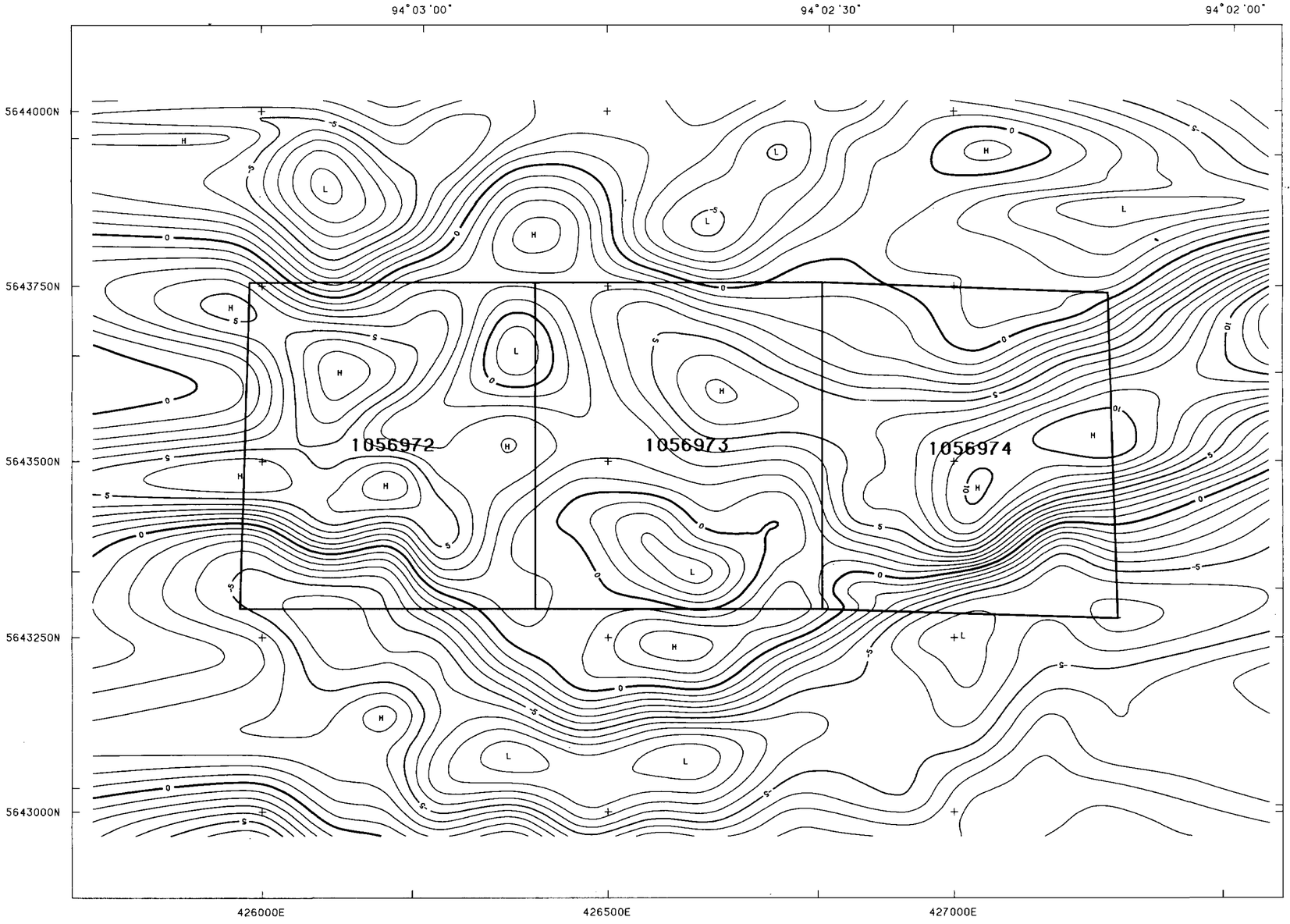
2.12741

A. JAMES WALKER

TACK LAKE ONTARIO
KILLALA, BAIRD TWPS

VLF PROFILES
SEATTLE 24.8 HZ

NTS: 52L/16	DWG NO: I-4



SURVEY SPECIFICATIONS

BASE STATION	:	EDA PPM - 375 MAGNETOMETER
MAGNETOMETER	:	SCINTREX MAC - 3
VLF ELECTROMAGNETIC SYSTEM	:	TOTEM 2A
VLF STATIONS	:	INLINE NLK Seattle ORTHO NSS Annapolis
MEAN TERRAIN CLEARANCE	:	60 METERS
LINE SPACING	:	100 METERS
LINE DIRECTION	:	0 - 180 DEGREES 90 - 270 DEGREES
DATE	:	February 1989

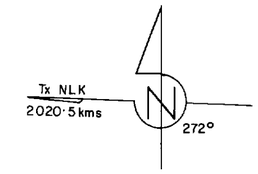
Processed by TESLA-10 LTD
Mississauga Ontario

LEGEND

CONTOUR INTERVAL 1 %

1 %
5 %
10 %
20 %

SURVEY CONTRACTORS
GEOTECH LTD
Markham, Ontario
GRID DATA NORTH LTD
Mississauga Ontario



0 100 200 300 400 500m

Scale 1:5000

UNIVERSAL TRANSVERSE MERCATOR GRID
ZONE 15

2.12741

A. JAMES WALKER

TACK LAKE ONTARIO
KILLALA, BAIRD TWPS

VLF TOTAL FIELD CONTOURS

NTS: 52L/16	DWG NO: T-5

52K13NW9994 2.12741 HEYSON

BAIRD TWP.

HEYSON TWP.

93°54'30"

93°54'00"

50°56'20"

50°56'10"

50°56'00"

5643250N

5643000N

5642750N

436000E

436500E

1056976

1056975

Lake

Roger Lake

SURVEY SPECIFICATIONS

BASE STATION	:	EDA PPM - 375 MAGNETOMETER
MAGNETOMETER	:	SCINTREX MAC - 3
VLF ELECTROMAGNETIC SYSTEM	:	TOTEM 2A
VLF STATIONS	:	INLINE NLK Seattle ORTHO NSS Annapolis
MEAN TERRAIN CLEARANCE	:	60 METERS
LINE SPACING	:	100 METERS
LINE DIRECTION	:	0 - 180 DEGREES 90 - 270 DEGREES
DATE	:	February 1989

Processed by TESLA-IO LTD
Mississauga Ontario

SURVEY CONTRACTORS
GEOTECH LTD
Markham, Ontario
GRID DATA NORTH LTD
Mississauga Ontario

N

0 100 200 300 400 500m

Scale 1:5000

UNIVERSAL TRANSVERSE MERCATOR GRID
ZONE 15

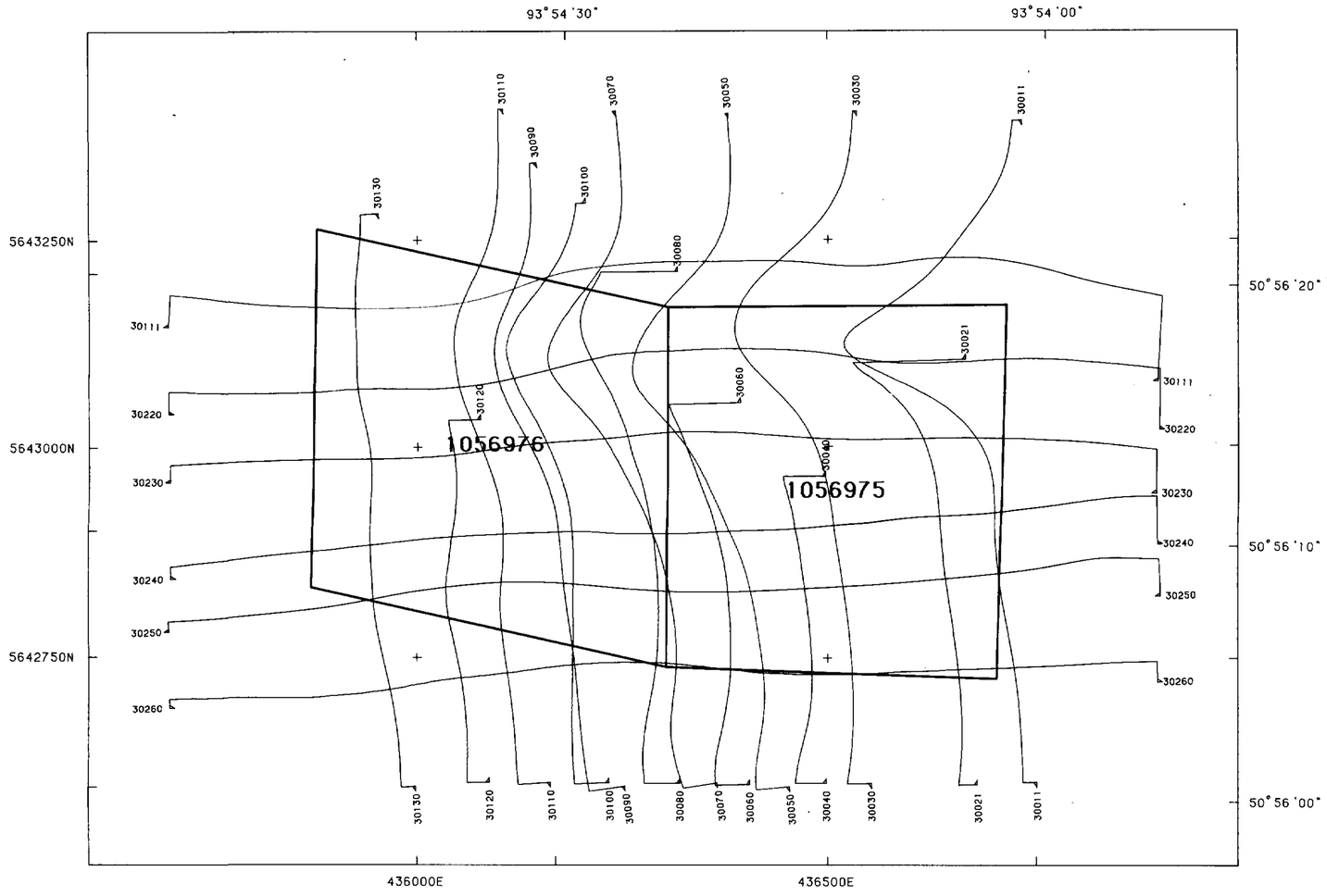
2.12741

A. JAMES WALKER

ROGER LAKE ONT.
BAIRD, HEYSON TWPS

FLIGHT PATH MAP

NTS: 52K/13	DWG NO: S-6



SURVEY SPECIFICATIONS

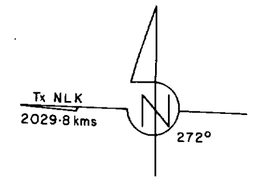
BASE STATION	: EDA PPM - 375 MAGNETOMETER
MAGNETOMETER	: SCINTREX MAC - 3
VLF ELECTROMAGNETIC SYSTEM	: TOTEM 2A
VLF STATIONS	: INLINE NLK Seattle ORTHO NSS Annapolis
MEAN TERRAIN CLEARANCE	: 60 METERS
LINE SPACING	: 100 METERS
LINE DIRECTION	: 0 - 180 DEGREES 90 - 270 DEGREES
DATE	: February 1989

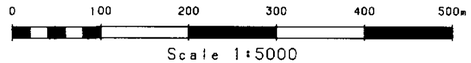
Processed by TESLA-10 LTD
Mississauga Ontario

LEGEND

BASE VALUE 60000 nT
VERTICAL SCALE 100 nT/CM

SURVEY CONTRACTORS
GEOTECH LTD
Markham, Ontario
GRID DATA NORTH LTD
Mississauga Ontario





Scale 1:5000

UNIVERSAL TRANSVERSE MERCATOR GRID
ZONE 15

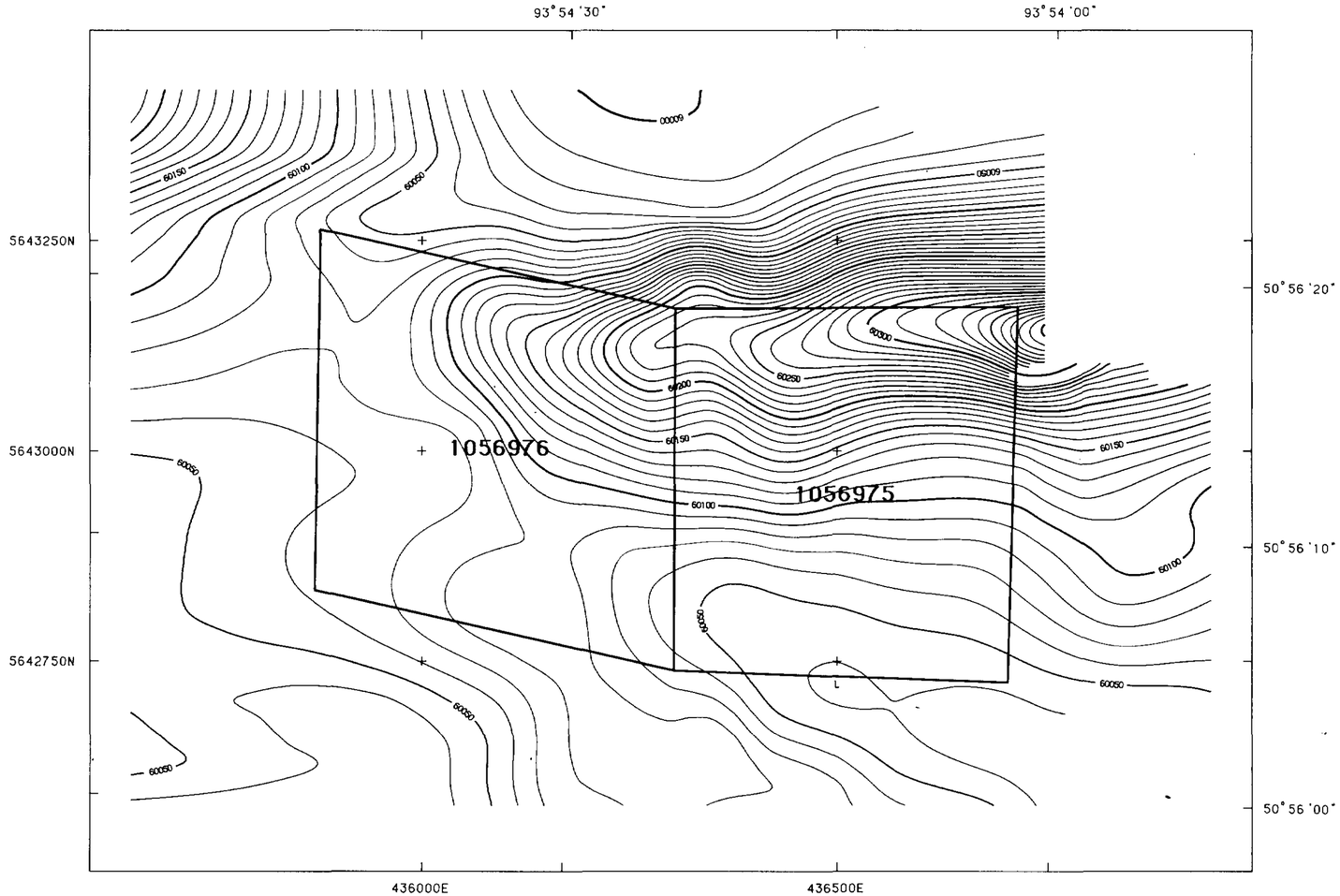
2.12741

A. JAMES WALKER

ROGER LAKE ONT.
BAIRD, HEYSON TWPS

TOTAL FIELD MAGNETIC PROFILES

NTS: 52K/13	DWG NO: S-2



SURVEY SPECIFICATIONS

BASE STATION	: EDA PPM - 375 MAGNETOMETER
MAGNETOMETER	: SCINTREX MAC - 3
VLF ELECTROMAGNETIC SYSTEM	: TOTEM 2A
VLF STATIONS	: INLINE NLK Seattle ORTHO NSS Annapolis
MEAN TERRAIN CLEARANCE	: 60 METERS
LINE SPACING	: 100 METERS
LINE DIRECTION	: 0 - 180 DEGREES 90 - 270 DEGREES
DATE	: February 1989

Processed by TESLA-10 LTD
Mississauga Ontario

LEGEND

CONTOUR INTERVEL 10 nT

10 nT
50 nT
100 nT
1000 nT

SURVEY CONTRACTORS
GEOTECH LTD
Markham, Ontario
GRID DATA NORTH LTD
Mississauga Ontario

N

0 100 200 300 400 500m
Scale 1:5000

UNIVERSAL TRANSVERSE MERCATOR GRID
ZONE 15

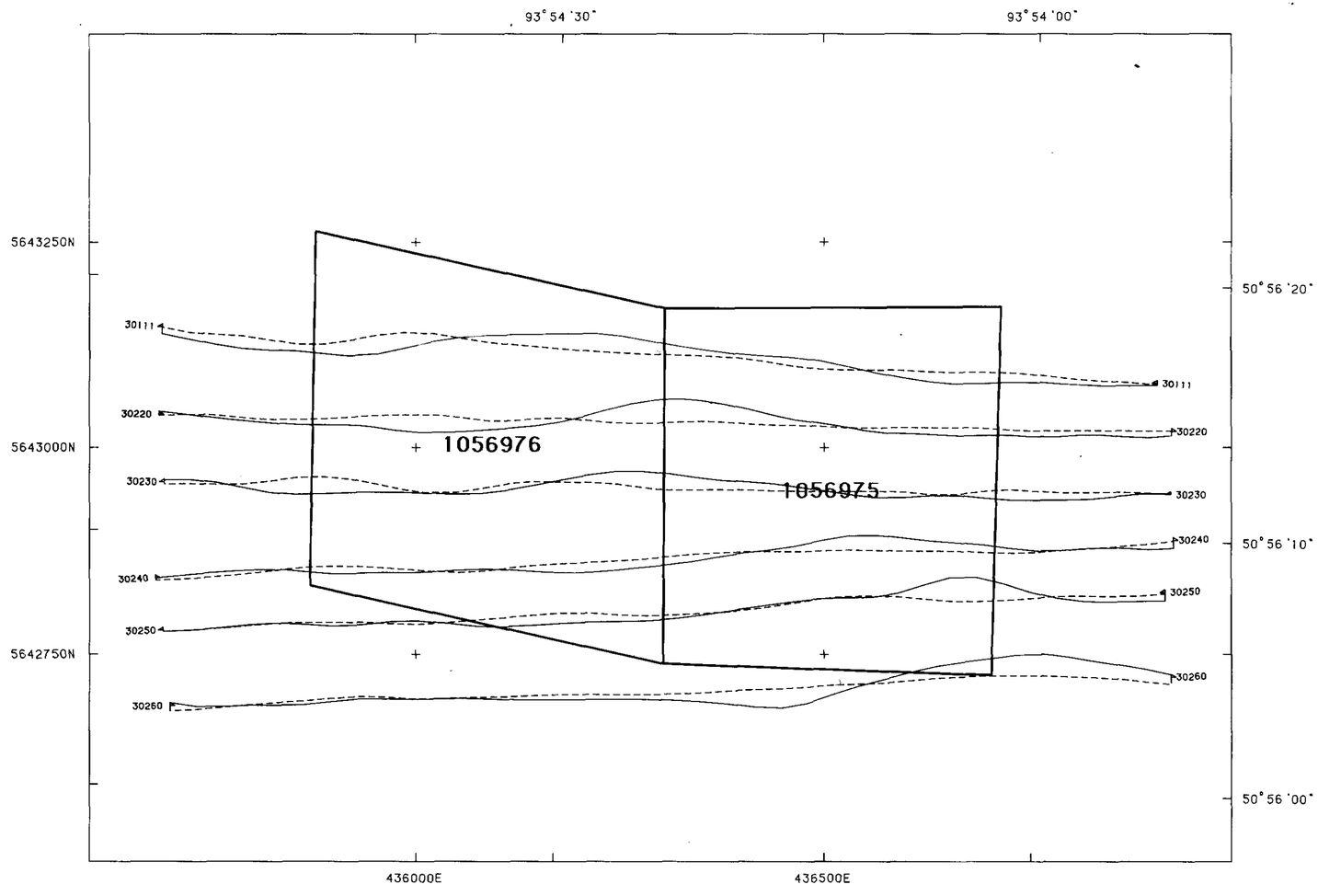
2.12741

A. JAMES WALKER

ROGER LAKE ONT.
BAIRD, HEYSON TWPS

TOTAL FIELD MAGNETIC CONTOURS

NTS: 52K/13	DWG NO: S-1



NLK

SURVEY SPECIFICATIONS

BASE STATION	: EDA PPM - 375 MAGNETOMETER
MAGNETOMETER	: SCINTREX MAC - 3
VLF ELECTROMAGNETIC SYSTEM	: TOTEM 2A
VLF STATIONS	: INLINE NLK Seattle ORTHO NSS Annapolis
MEAN TERRAIN CLEARANCE	: 60 METERS
LINE SPACING	: 100 METERS
LINE DIRECTION	: 0 - 180 DEGREES 90 - 270 DEGREES
DATE	: February 1989

Processed by TESLA-10 LTD
Mississauga Ontario

LEGEND

TOTAL FIELD	———
QUADRATURE	- - - - -
BASE VALUE	0 %
VERTICAL SCALE	10 %/CM

SURVEY CONTRACTORS
GEOTECH LTD
Markham, Ontario
GRID DATA NORTH LTD
Mississauga Ontario

N

0 100 200 300 400 500m

Scale 1:5000

UNIVERSAL TRANSVERSE MERCATOR GRID
ZONE 15

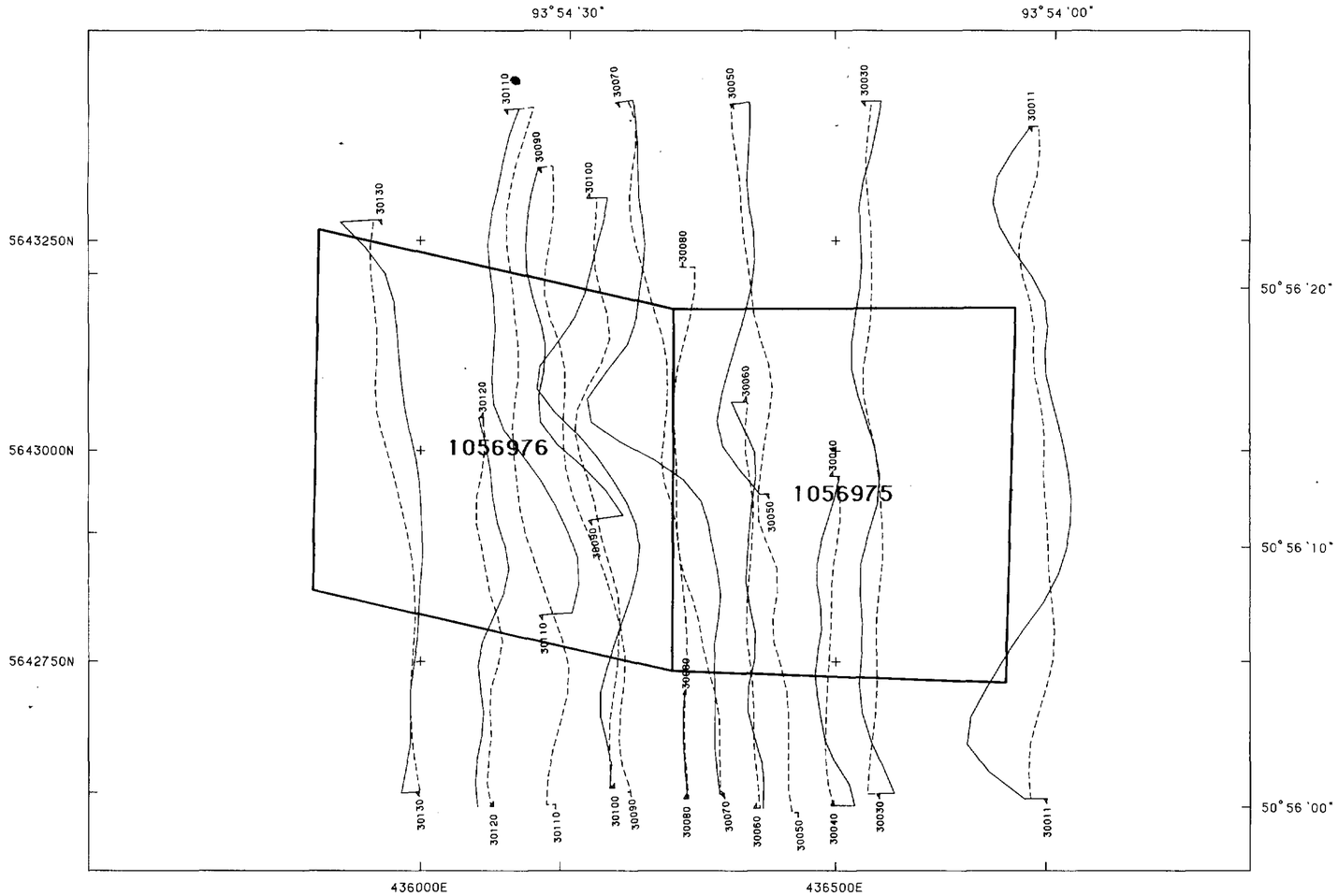
2.12741

A. JAMES WALKER

ROGER LAKE ONT.
BAIRD, HEYSON TWPS

VLF PROFILES (GTAM)
SEATTLE 24.8 HZ

NTS: 52K/13	DWG NO: S-3



SURVEY SPECIFICATIONS

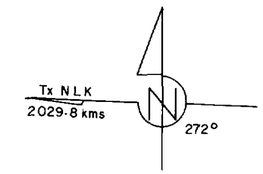
BASE STATION	: EDA PPM - 375 MAGNETOMETER
MAGNETOMETER	: SCINTREX MAC - 3
VLF ELECTROMAGNETIC SYSTEM	: TOTEM 2A
VLF STATIONS	: INLINE NLK Seattle ORTHO NSS Annapolis
MEAN TERRAIN CLEARANCE	: 60 METERS
LINE SPACING	: 100 METERS
LINE DIRECTION	: 0 - 180 DEGREES 90 - 270 DEGREES
DATE	: February 1989

Processed by TESLA-10 LTD
Mississauga Ontario

LEGEND

TOTAL FIELD	———
QUADRATURE	- - - - -
BASE VALUE	0 %
VERTICAL SCALE	10 %/CM

SURVEY CONTRACTORS
GEOTECH LTD
Markham, Ontario
GRID DATA NORTH LTD
Mississauga Ontario



0 100 200 300 400 500m

Scale 1:5000

UNIVERSAL TRANSVERSE MERCATOR GRID
ZONE 15

2.12741

A. JAMES WALKER

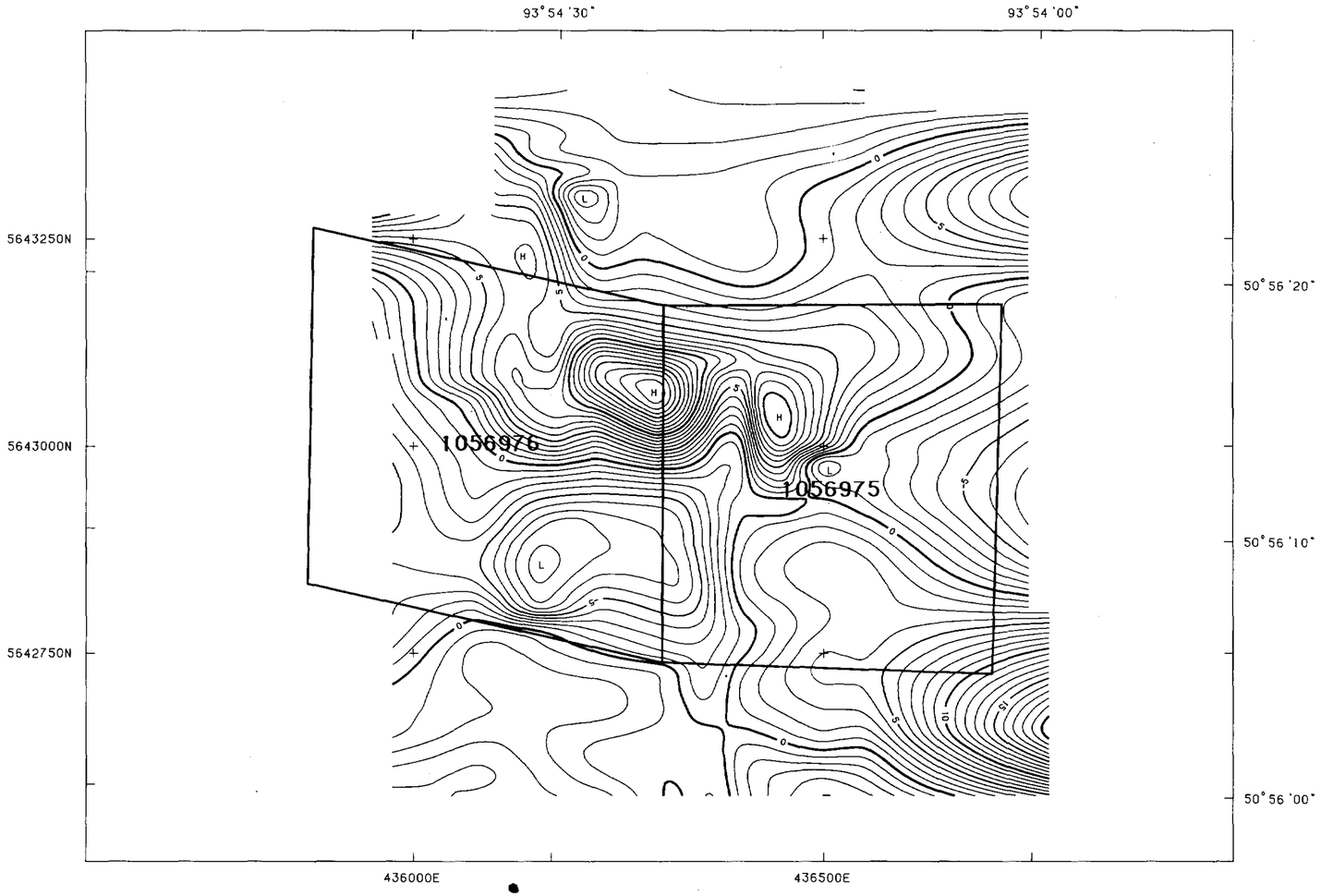
ROGER LAKE ONT.
BAIRD. HEYSON TWPS

VLF PROFILES
SEATTLE 24.8 HZ

NTS: 52K/13	DWG NO: S-4

NLK

52K13NW9994 2.12741 HEYSON



NLK ←

SURVEY SPECIFICATIONS

BASE STATION	: EDA PPM - 375 MAGNETOMETER
MAGNETOMETER	: SCINTREX MAC - 3
VLF ELECTROMAGNETIC SYSTEM	: TOTEM 2A
VLF STATIONS	: INLINE NLK Seattle ORTHO NSS Annapolis
MEAN TERRAIN CLEARANCE	: 60 METERS
LINE SPACING	: 100 METERS
LINE DIRECTION	: 0 - 180 DEGREES 90 - 270 DEGREES
DATE	: February 1989

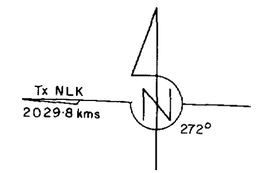
Processed by TESLA-10 LTD
Mississauga Ontario

LEGEND

CONTOUR INTERVAL 1 %

1 %
5 %
10 %
20 %

SURVEY CONTRACTORS
GEOTECH LTD
Markham, Ontario
GRID DATA NORTH LTD
Mississauga Ontario



0 100 200 300 400 500m

Scale 1:5000

UNIVERSAL TRANSVERSE MERCATOR GRID
ZONE 15

2.12741
A. JAMES WALKER

ROGER LAKE ONT.
BAIRD, HEYSON TWPS

VLF TOTAL FIELD CONTOURS
NLK SEATTLE

NTS: 52K/13	DWG NO: S-5