



52C13NW0005 2.7912 FLEMING

010

AGASSIZ RESOURCES LTD.  
OFF LAKE PROPERTY  
FLEMING AND SENN TOWNSHIPS  
KENORA MINING DIVISION, ONTARIO

REPORT ON  
MAGNETIC AND VLF-EM SURVEYS

**RECEIVED**

MAR 22 1985

**MINING LANDS SECTION**

A. James Walker, P. Eng.

February 28, 1985

*Qual.*  
*63.2234*



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ENCLOSURES

Magnetometer Survey	-	Total Field Values
"	"	Total Field Contours
VLF-EM Survey	-	Annapolis - Values and profiles
		Annapolis - Filtered values and contours
		Seattle - Values and profiles
		Seattle - Filtered values and contours

## INTRODUCTION

At the request of Agassiz Resources Ltd., Walker Exploration carried out magnetic and VLF-EM surveys over the Off Lake claim block of Agassiz Resources (35 claims). The claims are located in Senn and Fleming Townships, about 30 kilometers north of EMO Ontario.

Linecutting and chaining was carried out in December 1984, while the surveys were made in January 1985.

A Geonics EM16 VLF unit was used for the VLF-EM survey, reading Annapolis, Maryland, transmitter (21.4 kHz), along the EW cut lines. A second survey was also made using Seattle, Washington transmitter (24.8 kHz) looking for possible EW cross structures. The NS base line and tie lines were read, as well as NS lines on the lake portion of the grid.

The magnetic survey was carried out with an EDA PPM 300 total field proton magnetometer. An EDA PPM 400 base station magnetometer was used for diurnal control.

## SUMMARY

The magnetic and VLF-EM surveys show a northeasterly trending pattern. Conductors are present over the previously drilled Noranda copper occurrence, as well as the gold occurrence located by Brian Christie of Agassiz Resources Ltd. Other conductors present likely require further exploration.

PROPERTY

The 35 claim property is located in the northwest part of Fleming Township and the southwest part of Senn Township (Claims 728022, 728023, 728025-728033 inclusive, 751001-751015 inclusive, 771991-772000 inclusive). The group is about 30 kilometers north of EMO, Ontario. Provincial road 615 leaves highway 71 about 23 kilometers from EMO and crosses the northwest part of the claim block. About half the grid is covered by Off Lake.

PREVIOUS WORK

In 1967, Noranda Exploration carried out magnetic, induced polarization and resistivity surveys over a copper prospect in Senn Township just north of the Fleming Township boundary, and just west of Off Lake. Some mapping and 3 holes were drilled in 1967, which located minor pyrite and chalcopyrite.

In 1971 both INCO and Phelps Dodge Corporation flew combined magnetic and electromagnetic surveys of the area.

Old trenches occur at the north end of Off Lake. In 1984, Agassiz carried out geological mapping.

GENERAL GEOLOGY - Map 2325 - Ontario

The property is located along a northeast trending belt of Precambrian volcanics, with granitic rocks to the northwest and southeast. A

stock of quartz monzonite (Burditt Lake stock) occurs to the northeast.

The claim group is mainly underlain with intermediate to felsic volcanics, with mafic volcanics along the east and north sections of the group.

Gold values were obtained in a northeast trending shear along the shore on the southeast part of Claim K728026, or about 2300 feet west on line 20 South. A gossan zone with fuchsite occurs along the roadside on the north end of Off Lake. The Noranda Copper showing is located in the northwest part of Claim K751001, or about line 32N, to the west of Highway 615.

#### SURVEY METHOD

The magnetic survey was performed with an EDA PPM 300 proton magnetometer, measuring total field to 0.1 Gammas. Diurnal control was made by using an EDA base station magnetometer (PPM 400), located on the southwest corner of the grid.

The magnetometer and base station have solid state memory for storage of values and location of stations read. The units are plugged together each evening and the computer programme allows for automatic diurnal corrections. Corrected data was stored on cassette of an HP85 computer.

Observations were made at 50 foot intervals on lines 400 feet apart. As well, base lines and tie lines were read. Values are plotted on a plan at a scale of 1 inch equals 400 feet (1:4800). Contours of values are plotted on a separate sheet.

The VLF-EM survey was made on the same grid of lines, using a Geonics EM16 VLF unit. Stations were read at 50 foot intervals. The Annapolis, Maryland transmitter station was used (21.4 kHz). A second VLF survey was made by running north-south lines on the lake portion of the grid, as well as the north-south base line and tie line. The Seattle, Washington transmitter (24.8 kHz) was observed.

Dip angle and quadrature values are plotted on plans for each survey, with profiles of values on separate plans.

The dip angle values were filtered (FRASER) for both surveys. Filtered values and contours are plotted on separate plans for each transmitter.

#### SURVEY RESULTS

The magnetic survey shows a general north-south strike to the volcanic rocks. The higher magnetic values along the east section of the grid, as well as the west part, represent the intermediate to basic volcanics, while the central and south westerly area of low and flat magnetics likely represent the more felsic units, such as rhyolite.

Some faulting is also seen in the magnetic pattern of the contoured values.

The VLF-EM survey shows a conductive zone along the west boundary going from Off Lake to Spring Lake, on which the copper zone tested by drilling, by Noranda in 1967 occurs. Another long conductor is along the east shore of Off Lake, and has some magnetic coincidence. Other short zones are shown on the VLF plans.


Both magnetic and electromagnetic surveys suffer from interference of the major power line crossing the grid, as well as the local power lines along Highway 615 and into the numerous cottages along the lakeshore.

CONCLUSIONS

The surveys have located conductors, which may represent sulphide mineralization or shearing and faulting in an environment favourable for gold and base metals. Some conductivity is present at the gold occurrence on line 20S, in a northeast trending shear.

Final interpretation of surveys is being carried out by Mr. J. B. Boniwell, Consulting Geophysicist.

Respectfully submitted,

  
A. James Walker, P. Eng.

AJW:sb

March 9, 1985.

SURVEY DATA

Off Lake Property - Agassiz Resources Ltd.  
Senn and Fleming Townships, Kenora Mining Division

Geophysical Contractor	-	Walker Exploration Ltd.	
Covering Dates	-	Linecutting	- December 8-27, 1984
		Magnetic Survey	- January 18-25, 1985
		VLF-EM Survey	- January 18-26, 1985
		Remove Lake Pickets	- January 26-27, 1985
		Data Preparation	- February 2-4, 1985
		Drafting	- February 11-20, 1985
		Report	- February 25-28, 1985
	Line Coverage	-	Linecutting
		Magnetic Survey	- 34.0 miles 3623 Readings
		VLF-EW Lines	- 29.8 miles 3175 Readings
		VLF-NS Lines	- 15.8 miles 1688 Readings

Crew

Magnetic Survey	David Miles, Proton Station, Ontario
VLF Survey	James Tough, Bracebride, Ontario
Drafting	R. T. Marcroft, Mississauga, Ontario
Report & Data	A. J. Walker, Oakville, Ontario
Geophysical Consultant	J. B. Boniwell, Mississauga, Ontario



Instruments

Magnetic Survey

EDA, PPM 300, Proton

Total Field

Reading to 0.1 Gammas

Solid State Memory

Readings at 50 foot intervals

VLF-EM Survey

Geonics EM-16

Reading Dip angle and quadrature in per cent

Transmitters Used:

Annapolis, Maryland 21.4 kHz

Seattle, Washington 24.8 kHz

Readings at 50 foot intervals

Observations made facing:

Annapolis - N. Easterly

Seattle - Southerly

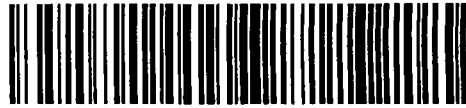


Ministry of  
Natural  
Resources

Ontario

Report of Work  
(Geophysical, Geological,  
Geochemical and Expenditures)

**FWM #25**



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900

**W8501-25**

Mining Act

Do not use shaded areas below.

Type of Survey(s) <b>Electromagnetic (VLF) and Magnetic</b>	Township or Area <b>Senn &amp; Fleming Beadle Lake</b>
Claim Holder(s) <b>AGASSIZ RESOURCES LTD.</b>	Prospector's Licence No. <b>M2068</b>
Address <b>Suite 1904 - 372 Bay St., TORONTO, Ontario M5H 2X9</b>	
Survey Company <b>Walker Exploration Ltd.</b>	Total Miles of Line Cut <b>33.6</b>
Date of Survey (from & to) <b>17 01 85 27 01 85</b> Day Mo. Yr. Day Mo. Yr.	
Name and Address of Author (of Geo-Technical report) <b>A. James Walker, 10 Hurontario St., MISSISSAUGA, Ontario L5G 3G7</b>	

Credits Requested per Each Claim in Columns at right			Mining Claims Traversed (List in numerical sequence)			
Special Provisions	Geophysical	Days per Claim	Mining Claim Number	Expend. Days Cr.	Mining Claim Number	Expend. Days Cr.
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	40	<b>K</b> 728022		751014	
	- Magnetometer	20	728023		751015	
	- Radiometric		728025		771991 ✓	
	- Other		728026		771992 ✓	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological		728027		771993 ✓	
	Geochemical		728029		771994 ✓	
Man Days Complete reverse side and enter total(s) here	- Electromagnetic		728030		771995	
	- Radiometric		728031		771996 ✓	
			728032		771997 ✓	
			728033		771998	
			751001		771999 ✓	
			751002		772000 ✓	
			751003			
			751004 ✓			
			751005			
			751006			
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.			751007			
			751008			
			751009			
			751010			
			751011			
			751012			

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**FEB 25 1985**  
**MINING LANDS SECTION**

**KENORA MINING DIV.**  
**RECEIVED**  
**FEB 11 1985**  
7 8 9 10 11 12 1 2 3 4 5

**728022**

Total number of mining claims covered by this report of work. **35**

Expenditures (excludes power stripping)		For Office Use Only	
Type of Work Performed	Performed on Claim(s)	Total Days Credits Recorded	Date Recorded
		2100	Feb 11 / 1985
Calculation of Expenditure Days Credits		Total Days Credits	Date Approved as Recorded
Total Expenditures	÷ 15 =		
\$			
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.			
Date	Record Holder or Agent (Signature)	Mining Inspector	
4/02/85	<i>A. Walker</i>	<i>[Signature]</i>	

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 <b>A. James Walker, 10 Hurontario St., MISSISSAUGA, Ontario L5G 3G7</b>		
Date Certified	Certified by (Signature)	
Feb. 4, 1985	<i>A. Walker</i>	



Ministry of Natural Resources

File \_\_\_\_\_

GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL  
TECHNICAL DATA STATEMENT

K

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) Magnetic and VLF-EM  
Township or Area Fleming and Senn  
Claim Holder(s) Agassiz Resources Ltd.  
1904 - 372 Bay St., Toronto, Ontario  
Survey Company Walker Exploration Ltd.  
Author of Report A. James Walker  
Address of Author 406 Canterbury Cr., Oakville, Ontario  
Covering Dates of Survey December 8, 1984 - February 28, 1985  
(linecutting to office)  
Total Miles of Line Cut 34.0

MINING CLAIMS TRAVERSED	
List numerically	
728022 <small>(prefix)</small>	751013 <small>(number)</small>
728023	751014
728025	751015
728026	771991
728027	771992
728029	771993
728030	771994
728031	771995
728032	771996
728033	771997
751001	771998
751002	771999
751003	772000
751004	
751005	
751006	
751007	
751008	
751009	
751010	
751011	
751012	
TOTAL CLAIMS <u>35</u>	

If space insufficient, attach list

SPECIAL PROVISIONS CREDITS REQUESTED	Geophysical	DAYS
		per claim.
ENTER 40 days (includes line cutting) for first survey.	-Electromagnetic	40
	-Magnetometer	20
	-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: Feb 26/85 SIGNATURE: [Signature]  
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications \_\_\_\_\_

Previous Surveys

File No.	Type	Date	Claim Holder

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

Number of Stations \_\_\_\_\_ Number of Readings \_\_\_\_\_ Magnetic 3623  
Station interval 100 Feet (Readings 50') \_\_\_\_\_ Line spacing 400 Feet  
Profile scale VLF 1" = 40% \_\_\_\_\_  
Contour interval Magnetic 10 Gammas \_\_\_\_\_

MAGNETIC

Instrument EDA PPM 350 Total Field Proton  
Accuracy - Scale constant 0.1 Gammas  
Diurnal correction method Base Station Control  
Base Station check-in interval (hours) 30 Seconds  
Base Station location and value Southwest corner of Grid 59,988

ELECTROMAGNETIC

Instrument Geonics EM16  
Coil configuration \_\_\_\_\_  
Coil separation \_\_\_\_\_  
Accuracy + 1%  
Method:  Fixed transmitter  Shoot back  In line  Parallel line  
Frequency Annapolis, Maryland 21.4 kHz and Seattle, Washington 24.8 kHz  
(specify V.L.F. station)  
Parameters measured In-Phase dip angle and quadrature in per cent

GRAVITY

Instrument \_\_\_\_\_  
Scale constant \_\_\_\_\_  
Corrections made \_\_\_\_\_  
Base station value and location \_\_\_\_\_  
Elevation accuracy \_\_\_\_\_

INDUCE 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 \_\_\_\_\_

Mining Lands Section

File No 2.7912

Control Sheet

TYPE OF SURVEY

- GEOPHYSICAL
- GEOLOGICAL
- GEOCHEMICAL
- EXPENDITURE

MINING LANDS COMMENTS:

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L.D. *[Signature]*

*J. Hurst*

Signature of Assessor

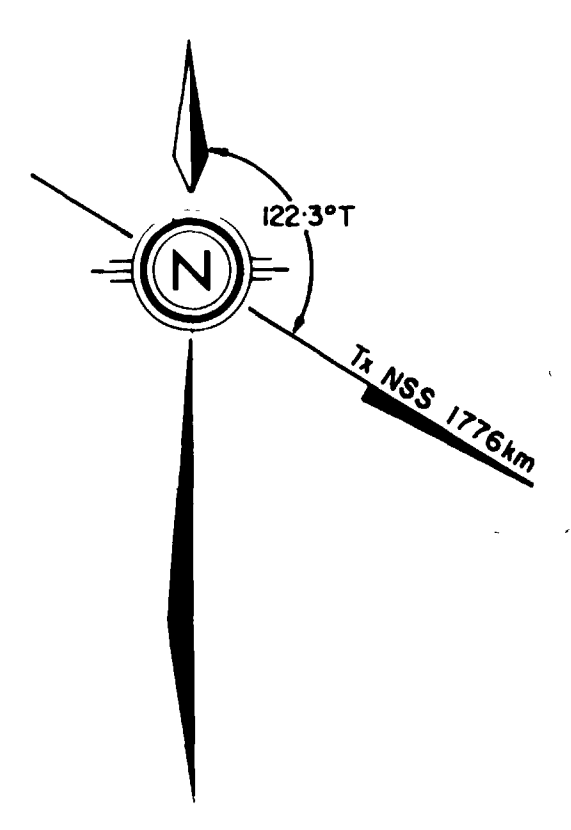
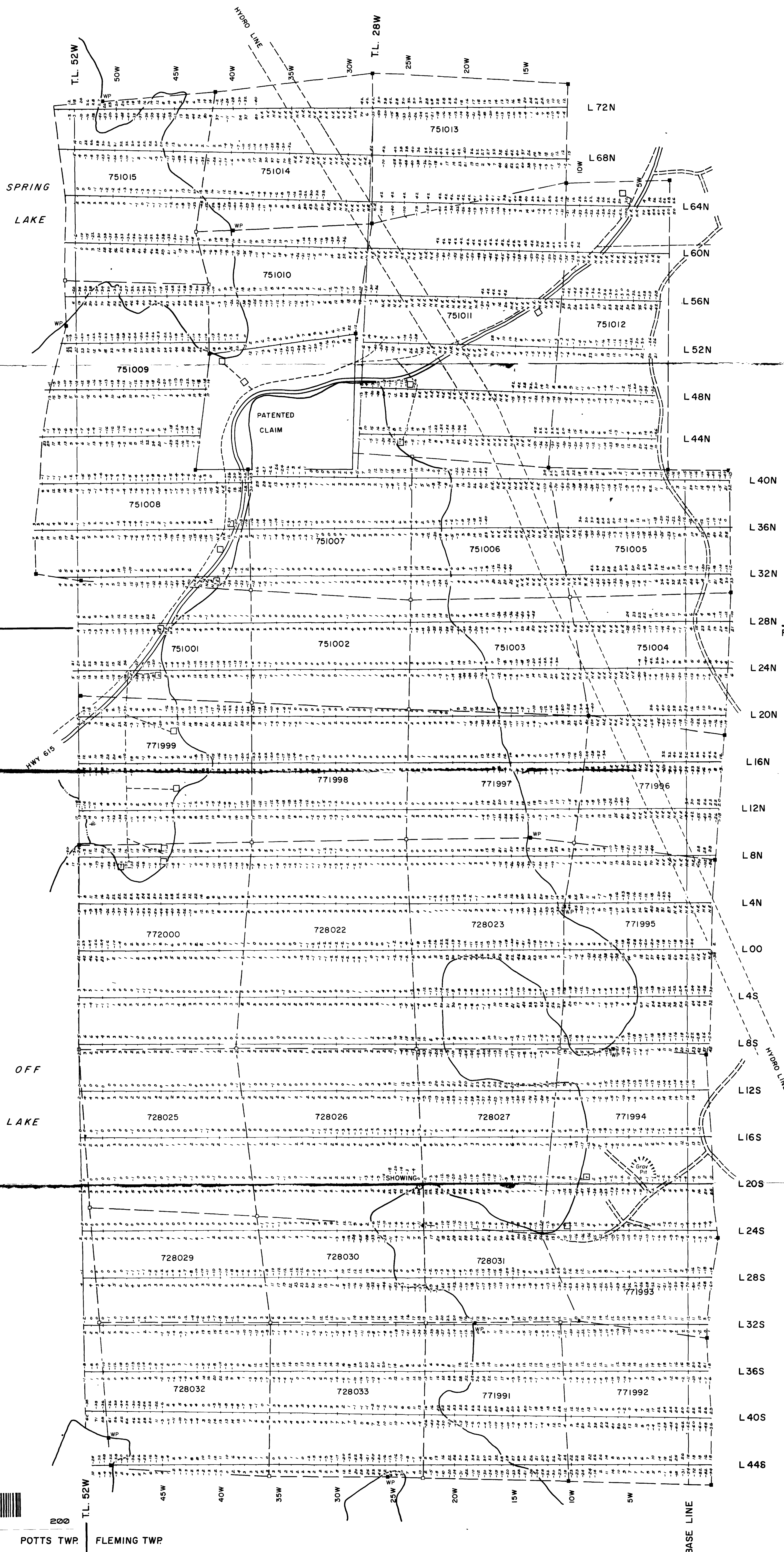
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Date

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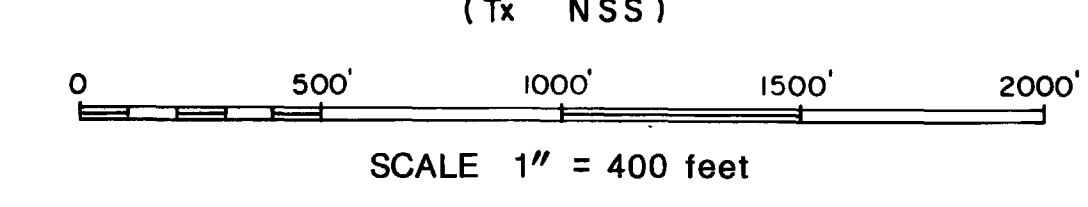
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	26	✓	✓		14	✓	✓			
	27	✓	✓		15	✓	✓			
	29	✓	✓		771991	✓	✓			
	30	✓	✓		92	✓	✓			
	31	✓	✓		93	✓	✓			
	32	✓	✓		94	✓	✓			
	33	✓	✓		95	✓	✓			5
	751001	✓	✓		96	✓	✓			2
	2	✓	✓		97	✓	✓			
	3	✓	✓		98	✓	✓			
	4	✓	✓		99	✓	✓			
	5	✓	✓		772000	✓	✓			
	6	✓	✓							
	7	✓	✓							
	8	✓	✓							
	9	✓	✓							
	10	✓	✓							



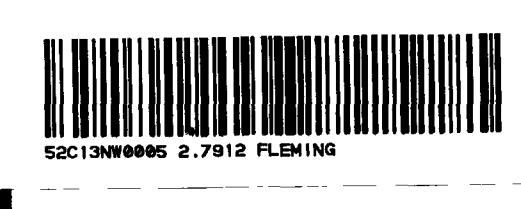
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- Claim post; located, assumed, witness  $\square$  WP
  - Claim line  $\cdots$
  - Cottages  $\square$
  - Power Line  $\cdots$
  - Roads; main, bush  $\cdots$
  - Lakeshore, Creek, Swamp  $\cdots$
  - Grid line with 100' stations  $\cdots$
- SURVEY DATA**
- Instrument  $\cdots$  Geonics EM-16
  - Transmitter  $\cdots$  NSS, Annapolis, MD, 21.4 kHz
  - Stations read facing  $\cdots$  Northeast
  - Readings plotted  $\cdots$  QP
  - $\cdots$  IP



AGASSIZ RESOURCES LTD.  
**OFF LAKE GRID**  
 Senn and Fleming Townships  
 KENORA M.D., ONTARIO  
**VLF EM SURVEY**  
**Inphase and Quadrature Readings**  
 (Tx NSS)

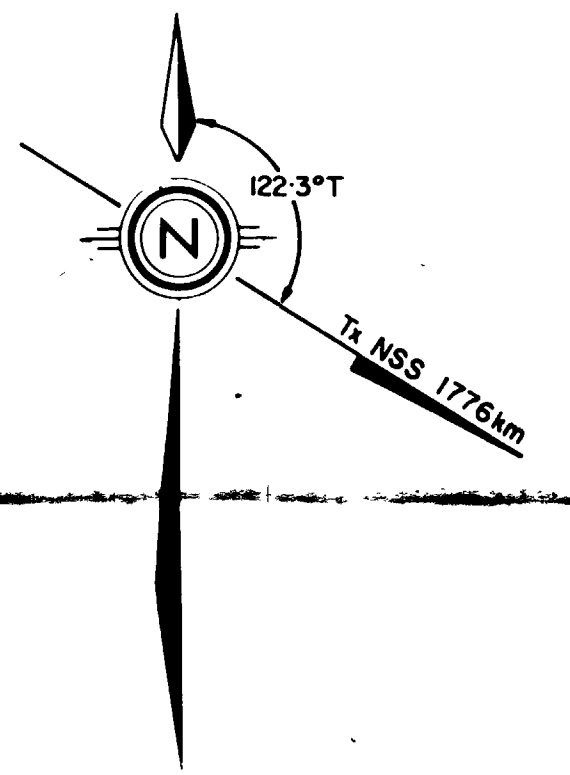
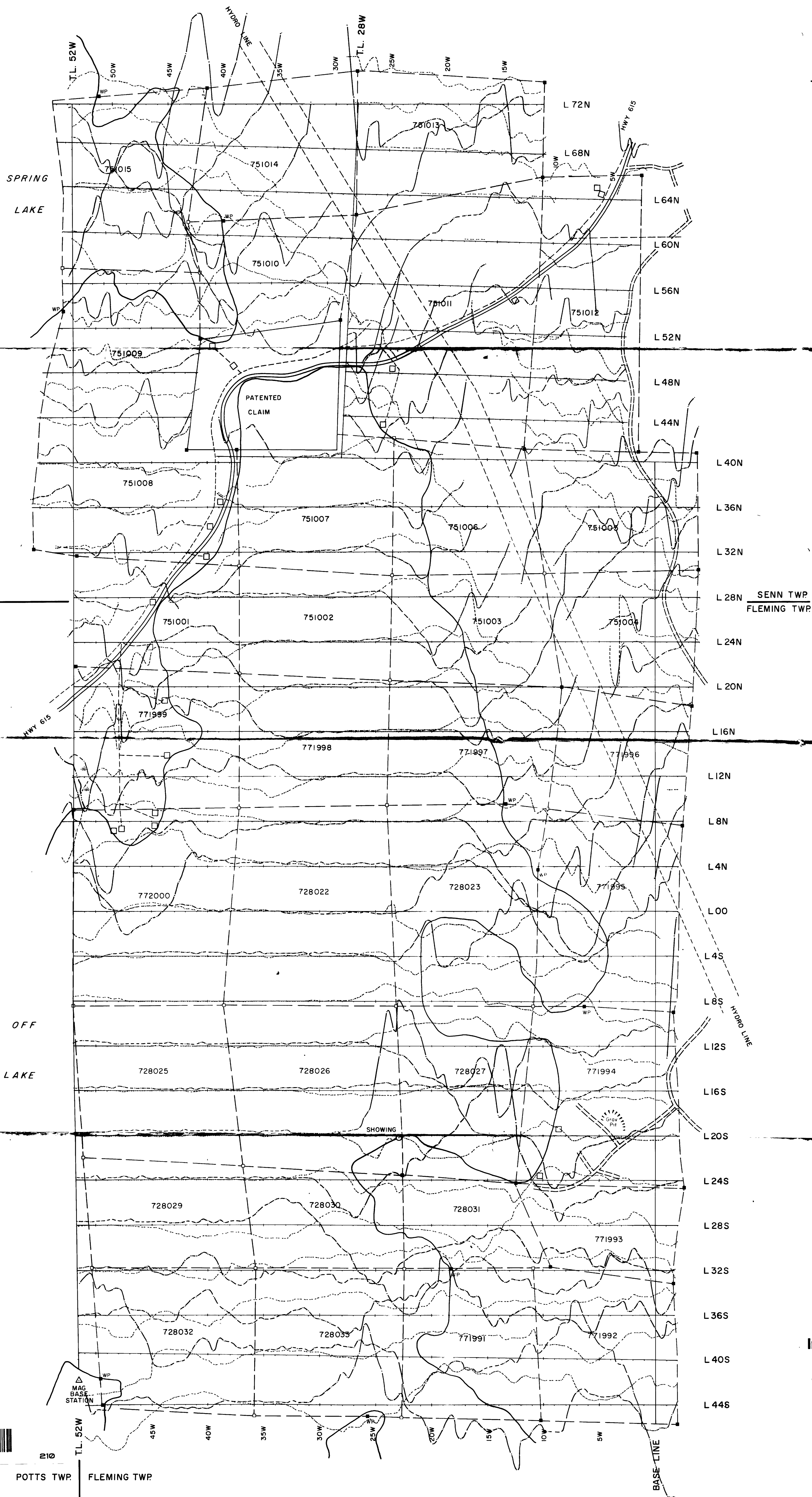


Survey Contractor  
 WALKER EXPLORATION LTD. 27912  
 Mississauga, Ontario  
 January 1985



POTTS TWP. FLEMING TWP.

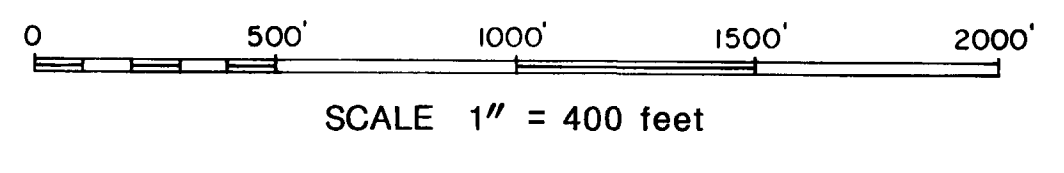




- LEGEND**
- Claim post; located, assumed, witness  $\square$  WP
  - Claim line  $\square$
  - Cottages  $\square$
  - Power Line  $\square$
  - Roads, main, bush  $\square$
  - Lakeshore, Creek, Swamp  $\square$
  - Grid line with 100' stations  $\square$
- SURVEY DATA**
- Instrument ..... Geonics EM-16
  - Transmitter ..... NSS, Annapolis, MD, 21.4 KHz
  - Stations read facing ..... Northeast
  - Profiles plotted ..... +
  - Profile scale ..... 1" = 40'
  - Inphase profile  $\square$
  - Quadrature profile  $\square$



AGASSIZ RESOURCES LTD.  
**OFF LAKE GRID**  
**Senn and Fleming Townships**  
 KENORA M.D., ONTARIO  
**VLF EM SURVEY**  
**Inphase and Quadrature Profiles**  
 (Tx NSS)

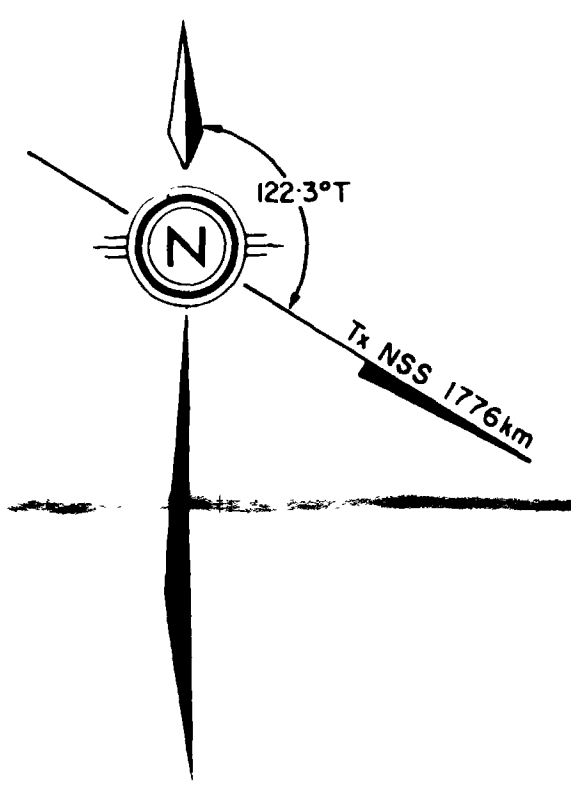
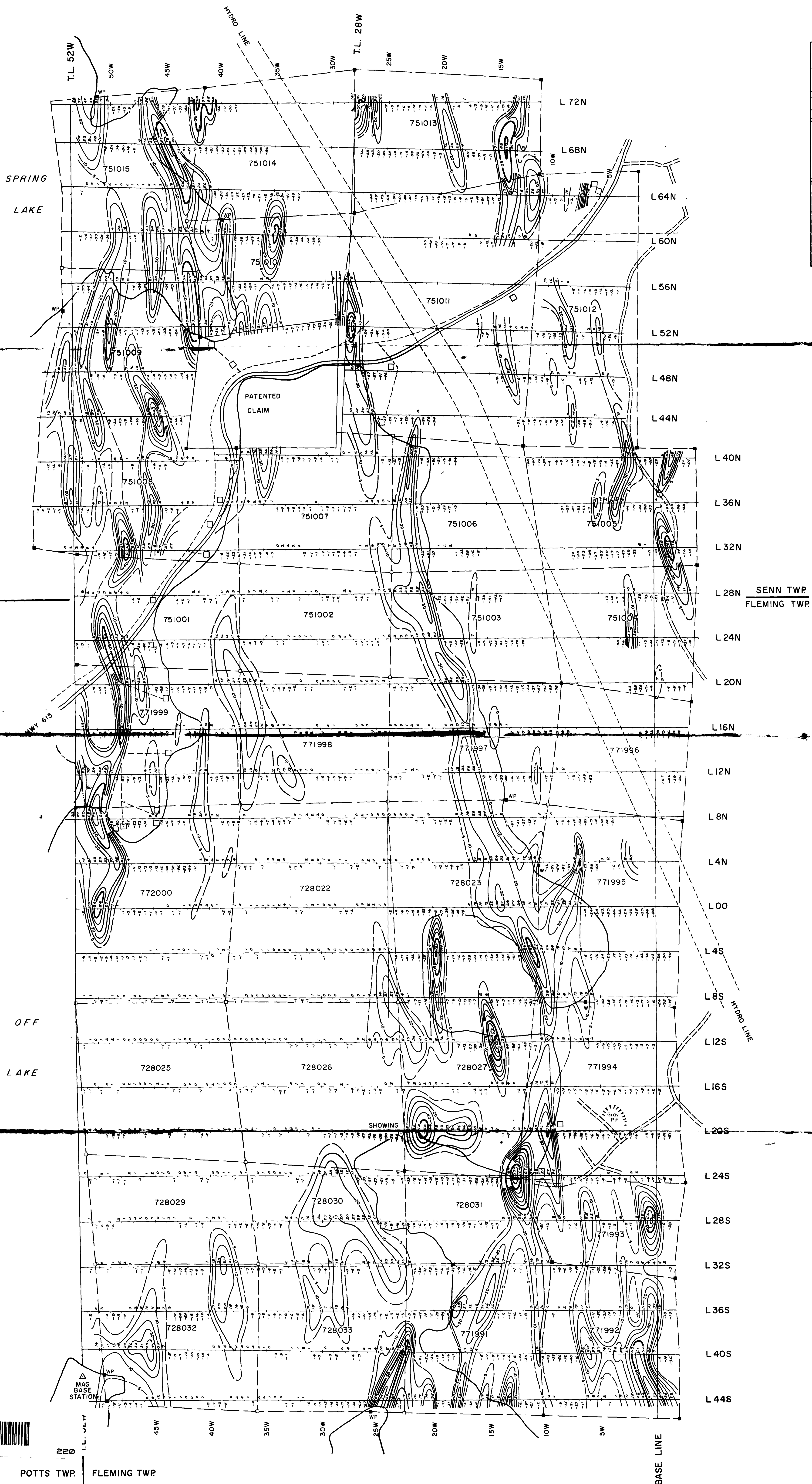


Survey Contractor  
**WALKER EXPLORATION LTD.**  
 Mississauga, Ontario  
 January 1985

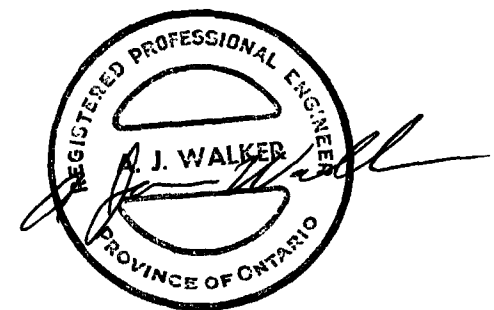


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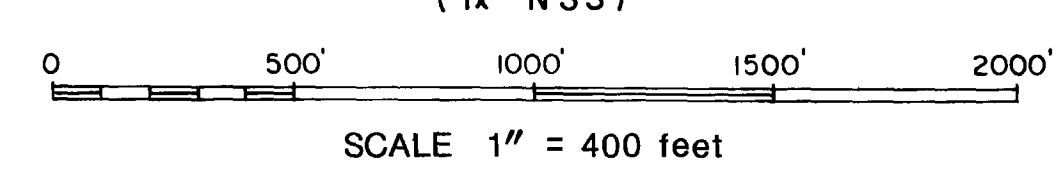




- LEGEND**
- Claim post; located, assumed, witness  $\square$  WP
  - Claim line  $\square$
  - Cottages  $\square$
  - Power Line  $\text{---}$
  - Roads, main, bush  $\text{---}$
  - Lakeshore, Creek, Swamp  $\text{---}$
  - Grid line with 100' stations  $\text{---}$
- SURVEY DATA**
- Instrument... Geonics EM-16
  - Transmitter... NSS, Annapolis, M.D., 21.4 kHz
  - Contours of Fraser filtered inphase VLF-EM data
  - Contour interval... +10%
  - +5% contour...  $\text{---}$
  - +10% contour...  $\text{---}$
  - +50% contour...  $\text{---}$



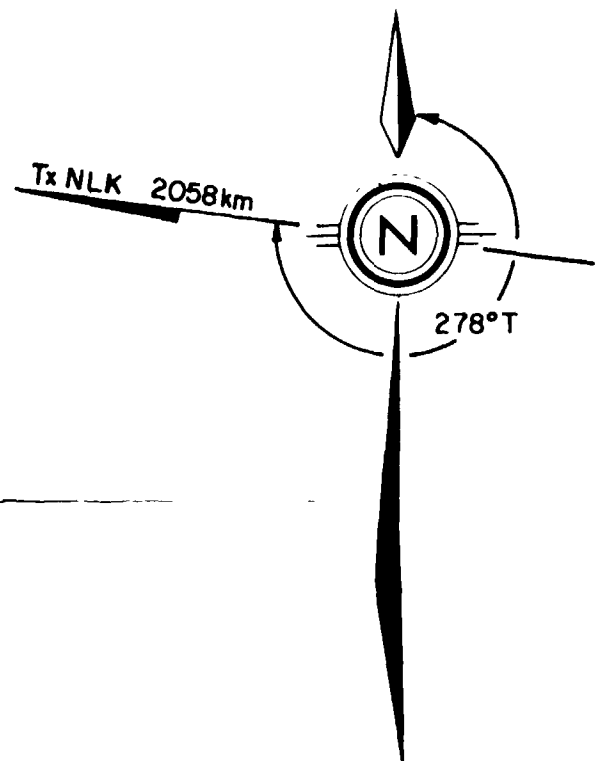
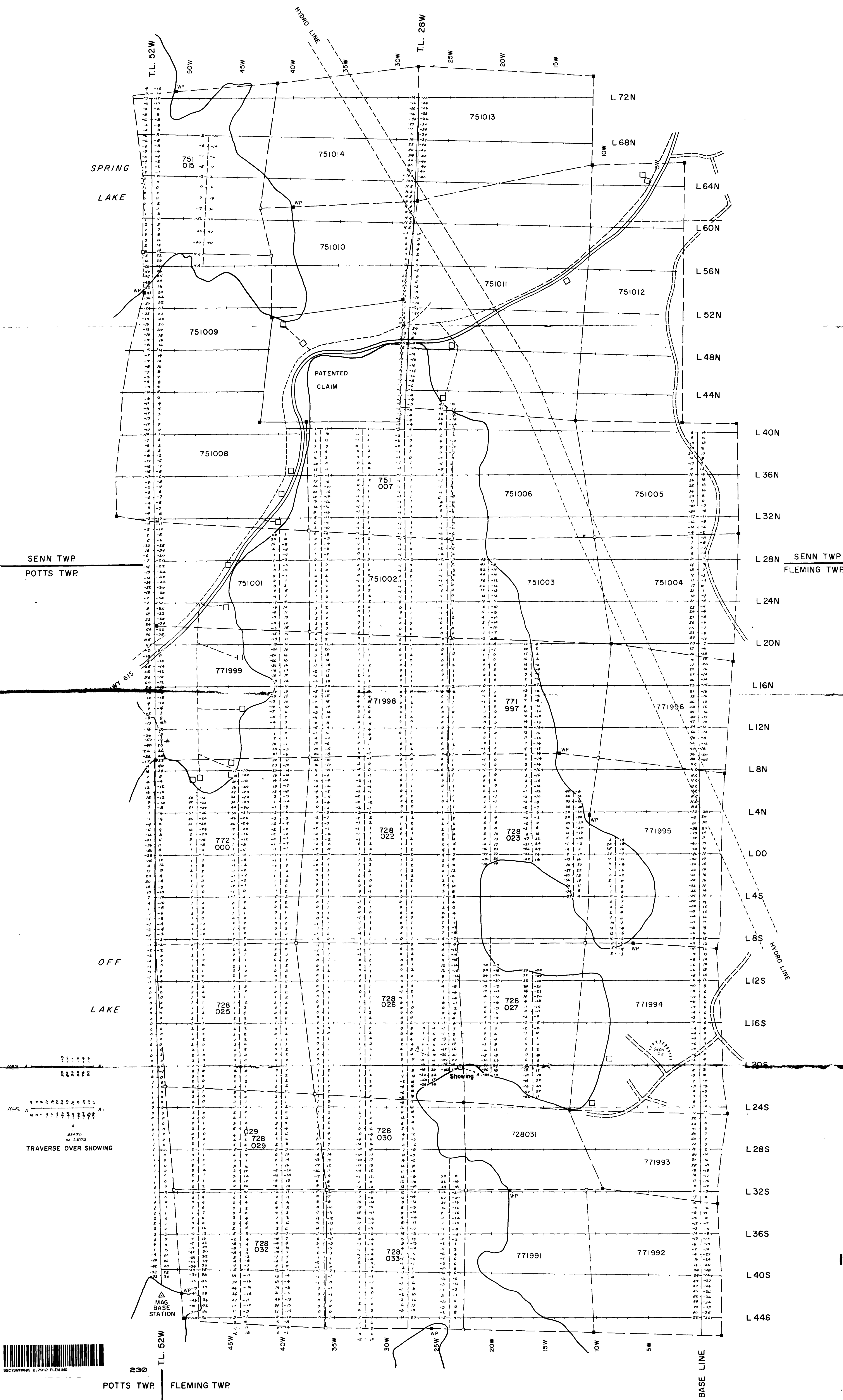
**AGASSIZ RESOURCES LTD.**  
**OFF LAKE GRID**  
**Senn and Fleming Townships**  
**KENORA M.D., ONTARIO**  
**VLF EM SURVEY**  
**Filtered Inphase Contours**



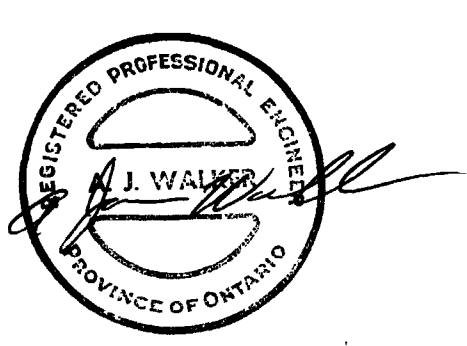
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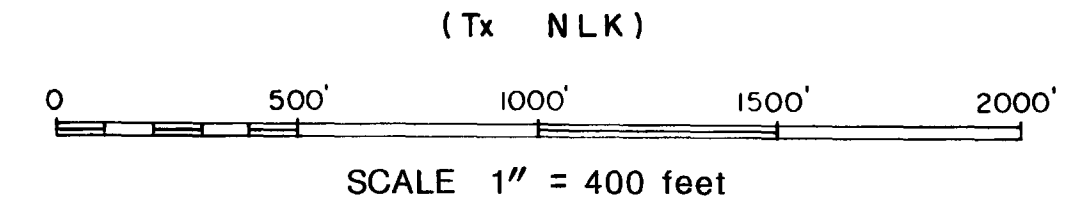
POTTS TWP. FLEMING TWP.



- LEGEND**
- Claim post; located, assumed, witness  WP
  - Claim line
  - Cottages
  - Power Line
  - Roads, main, bush
  - Lakeshore, Creek, Swamp
  - Grid line with 100' stations
- SURVEY DATA**
- Instrument: Geonics EM-16
  - Transmitter: NLK, Seattle, Wash., 24.8 kHz
  - Stations read facing: South
  - Readings plotted: IP 1 QP

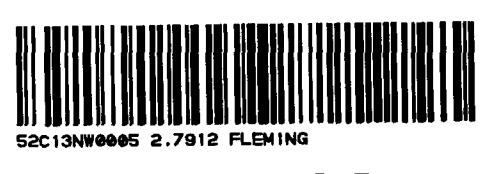


AGASSIZ RESOURCES LTD.  
**OFF LAKE GRID**  
 Senn and Fleming Townships  
 KENORA M.D., ONTARIO  
**VLF EM SURVEY**  
**Inphase and Quadrature Readings**



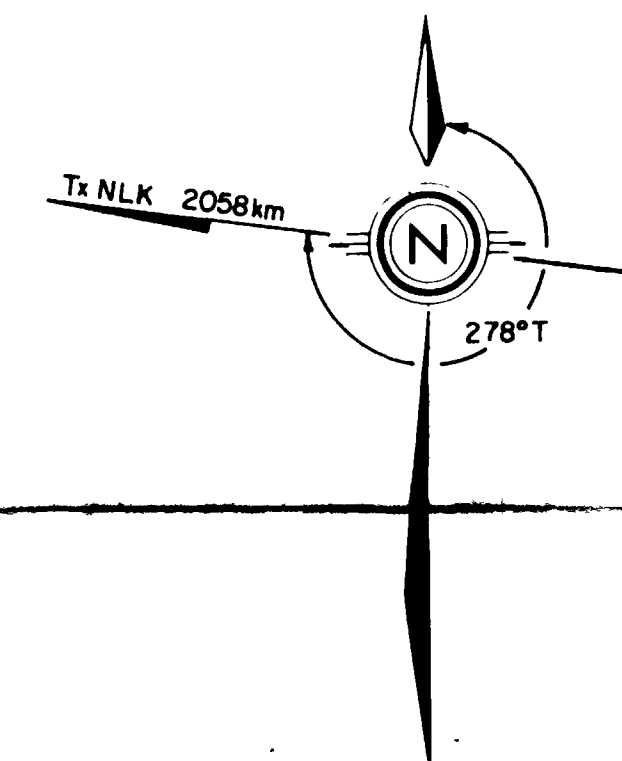
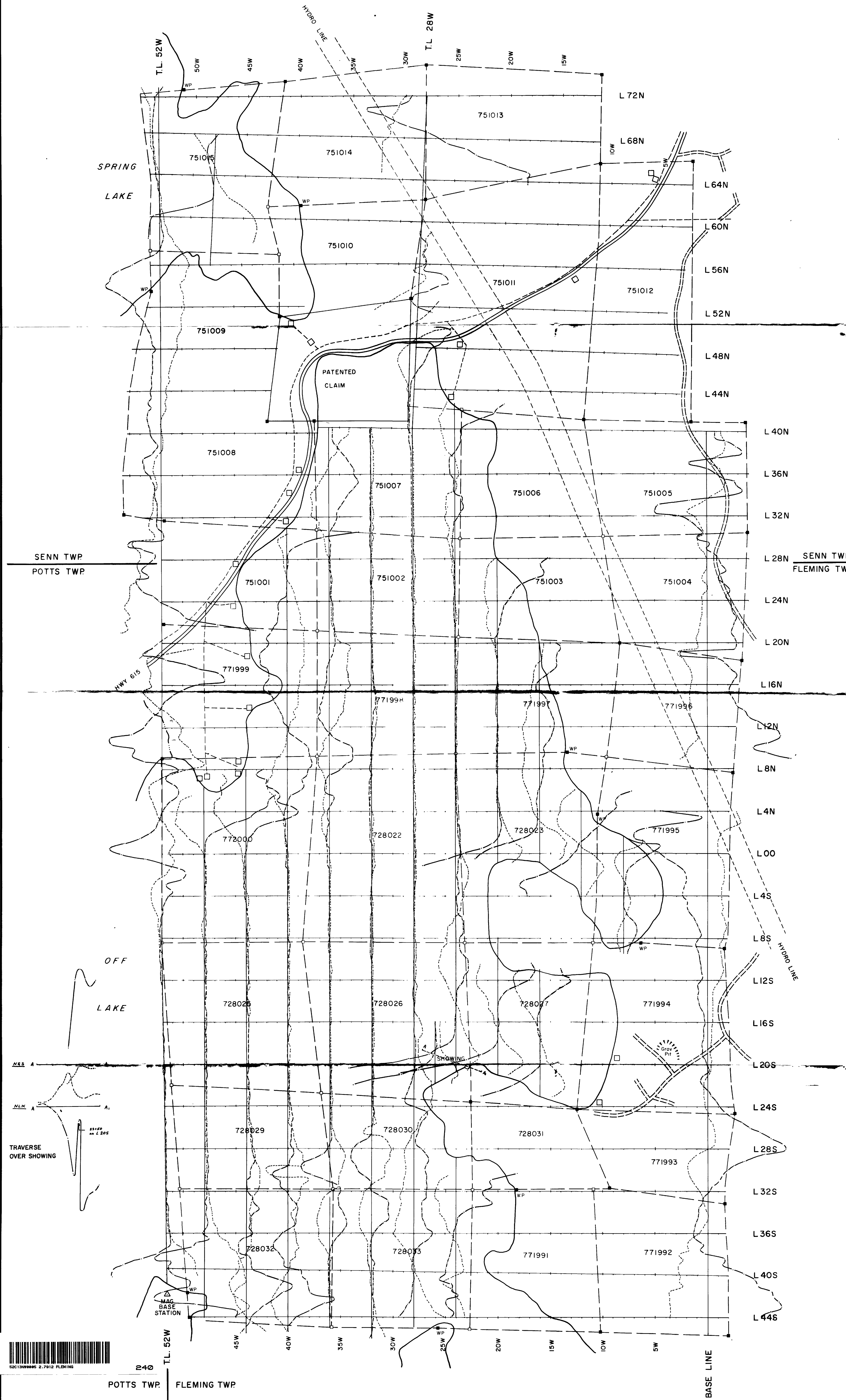
Survey Contractor  
 WALKER EXPLORATION LTD.  
 Mississauga, Ontario  
 January 1985

27912



POTTS TWP. FLEMING TWP.

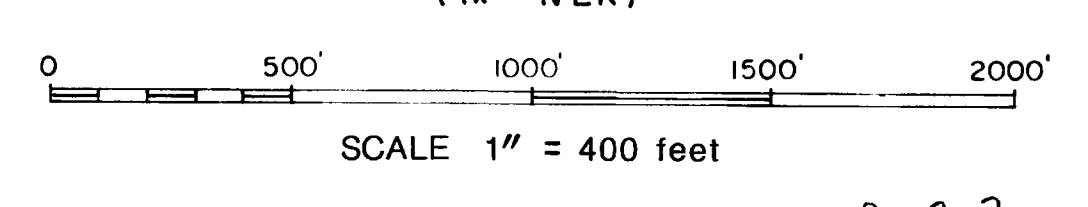




- LEGEND**
- Claim post, located, assumed, witness
  - Claim line
  - Cottages
  - Power Line
  - Roads, main, bush
  - Lakeshore, Creek, Swamp
  - Grid line with 100' stations
- SURVEY DATA**
- Instrument ..... Geonics EM-16
  - Transmitter ..... NLK, Seattle, Wash., 24.8 kHz
  - Stations read facing ..... South
  - Profiles plotted ..... 1+
  - Profile scale ..... 1" = 40'
  - Inphase profile
  - Quadrature profile



AGASSIZ RESOURCES LTD.  
**OFF LAKE GRID**  
 Senn and Fleming Townships  
 KENORA M.D., ONTARIO  
**VLF EM SURVEY**  
**Inphase and Quadrature Profiles**  
 (Tx NLK)

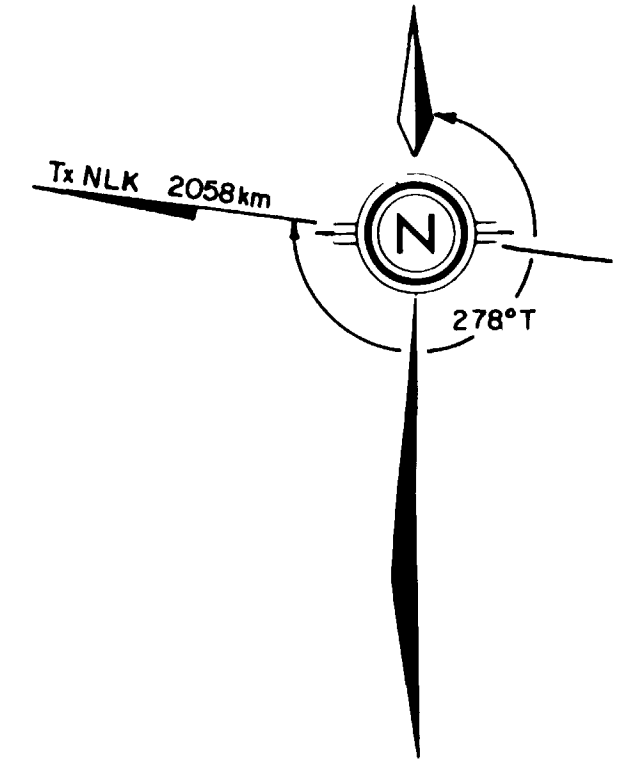
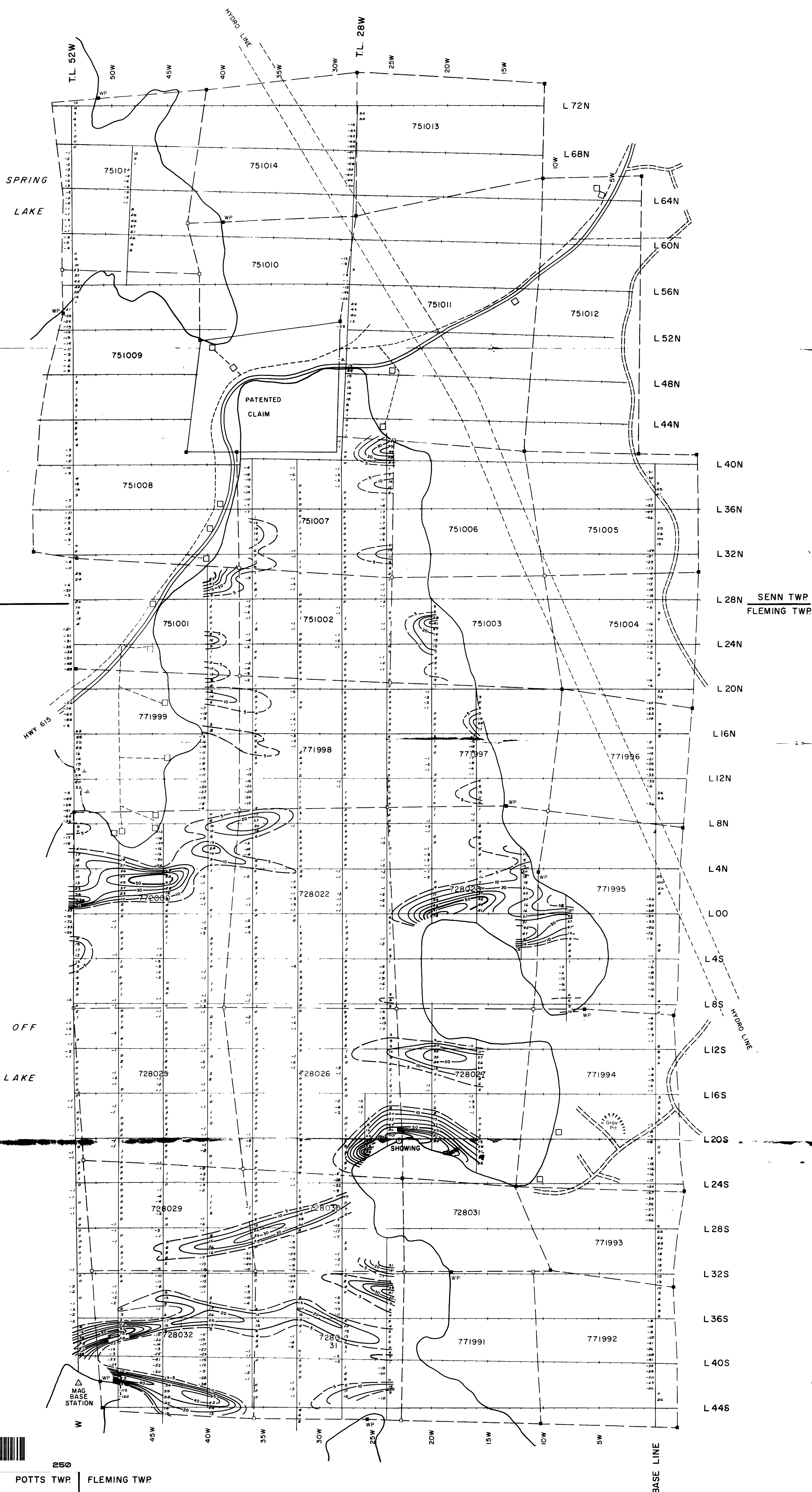


Survey Contractor  
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 Mississauga, Ontario  
 January 1985

2.7912



POTTS TWP. FLEMING TWP.



- LEGEND**
- Claim post; located, assumed, witness  WP
  - Claim line
  - Cottages
  - Power Line
  - Roads, main, bush
  - Lakeshore, Creek, Swamp
  - Grid line with 100' stations
- SURVEY DATA**
- Instrument ..... Geonics EM-16
  - Transmitter ..... NLK, Seattle, Wash., 24.8 kHz
  - Contours of Fraser filtered inphase VLF-EM data
  - Contour interval ..... +10%
  - +5% contour
  - +10% contour
  - +50% contour



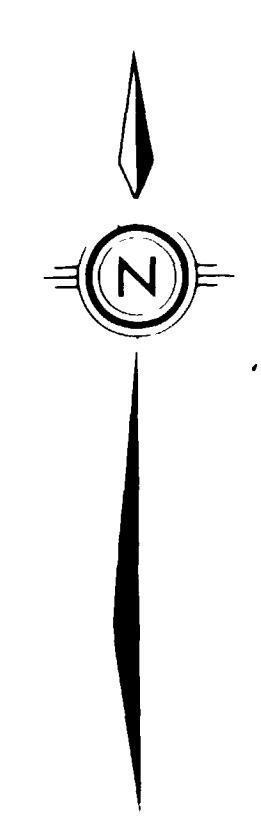
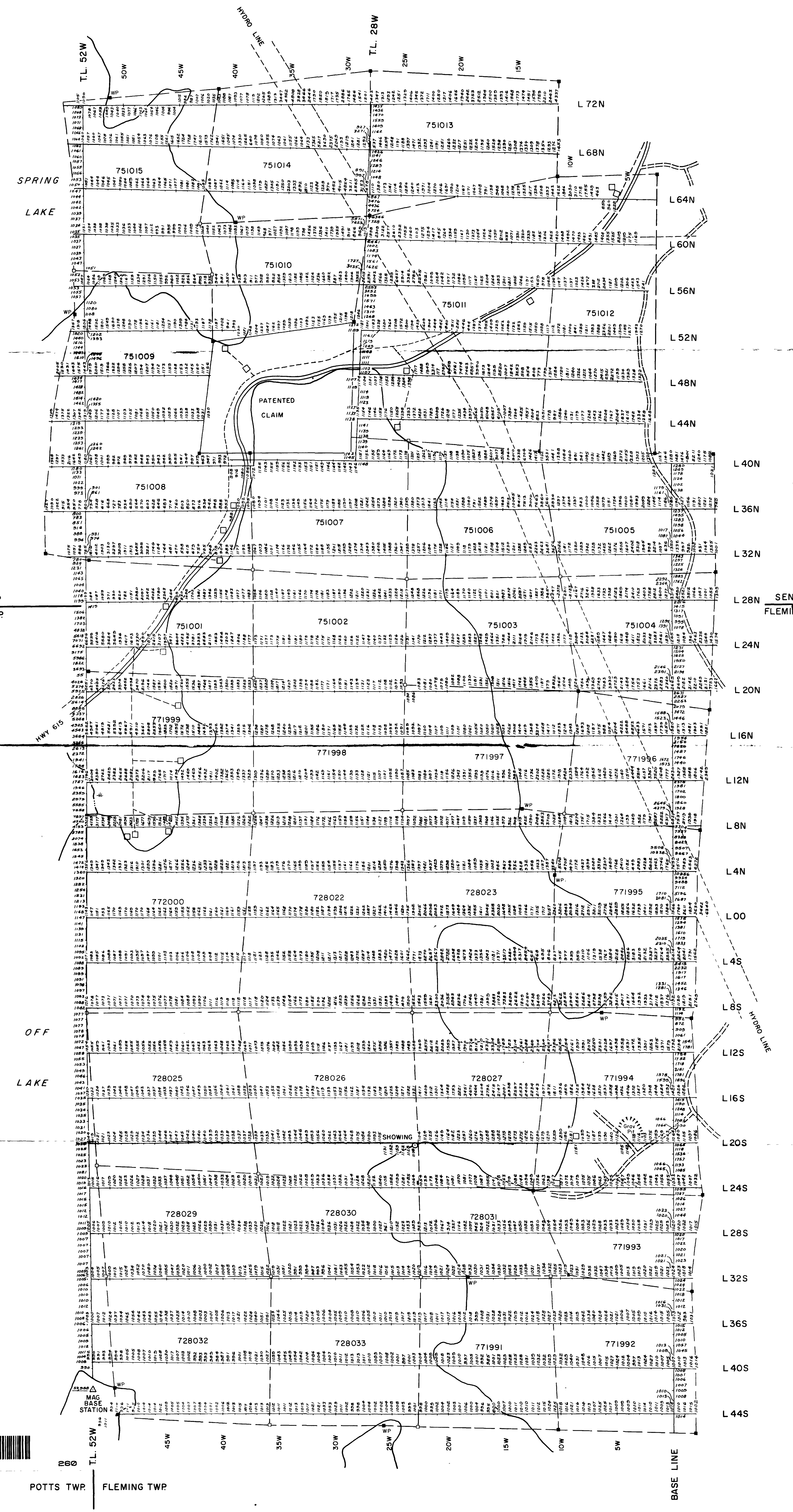
AGASSIZ RESOURCES LTD.  
**OFF LAKE GRID**  
**Senn and Fleming Townships**  
 KENORA M.D., ONTARIO  
**VLF EM SURVEY**  
**Filtered Inphase Contours**  
 (Tx NLK)  
 0 500' 1000' 1500' 2000'  
 SCALE 1" = 400 feet  
 Survey Contractor  
 WALKER EXPLORATION LTD.  
 Mississauga, Ontario  
 January 1985



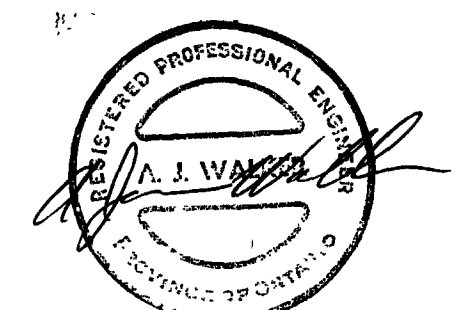
250  
 POTTS TWP. FLEMING TWP.

27912

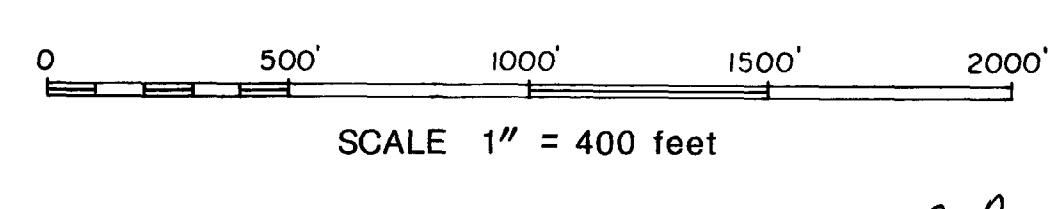




- LEGEND**
- Claim post; located, assumed, witness  WP
  - Claim line
  - Cottages
  - Power Line
  - Roads, main, bush
  - Lakeshore, Creek, Swamp
  - Grid line with 100' stations
- SURVEY DATA**
- Instrument: EDA PPM-300
  - Base station: EDA PPM-400
  - Readings + or - base level of 59,000 gamma



**AGASSIZ RESOURCES LTD.**  
**OFF LAKE GRID**  
**Senn and Fleming Townships**  
**KENORA M.D., ONTARIO**  
**Magnetometer Survey**  
**TOTAL INTENSITY READINGS**



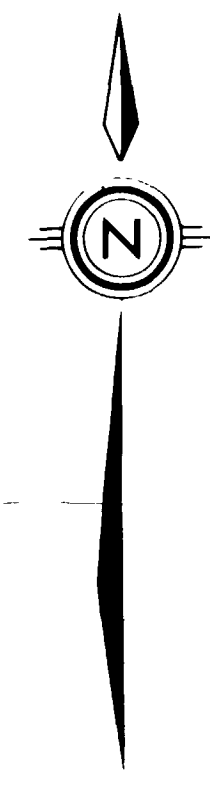
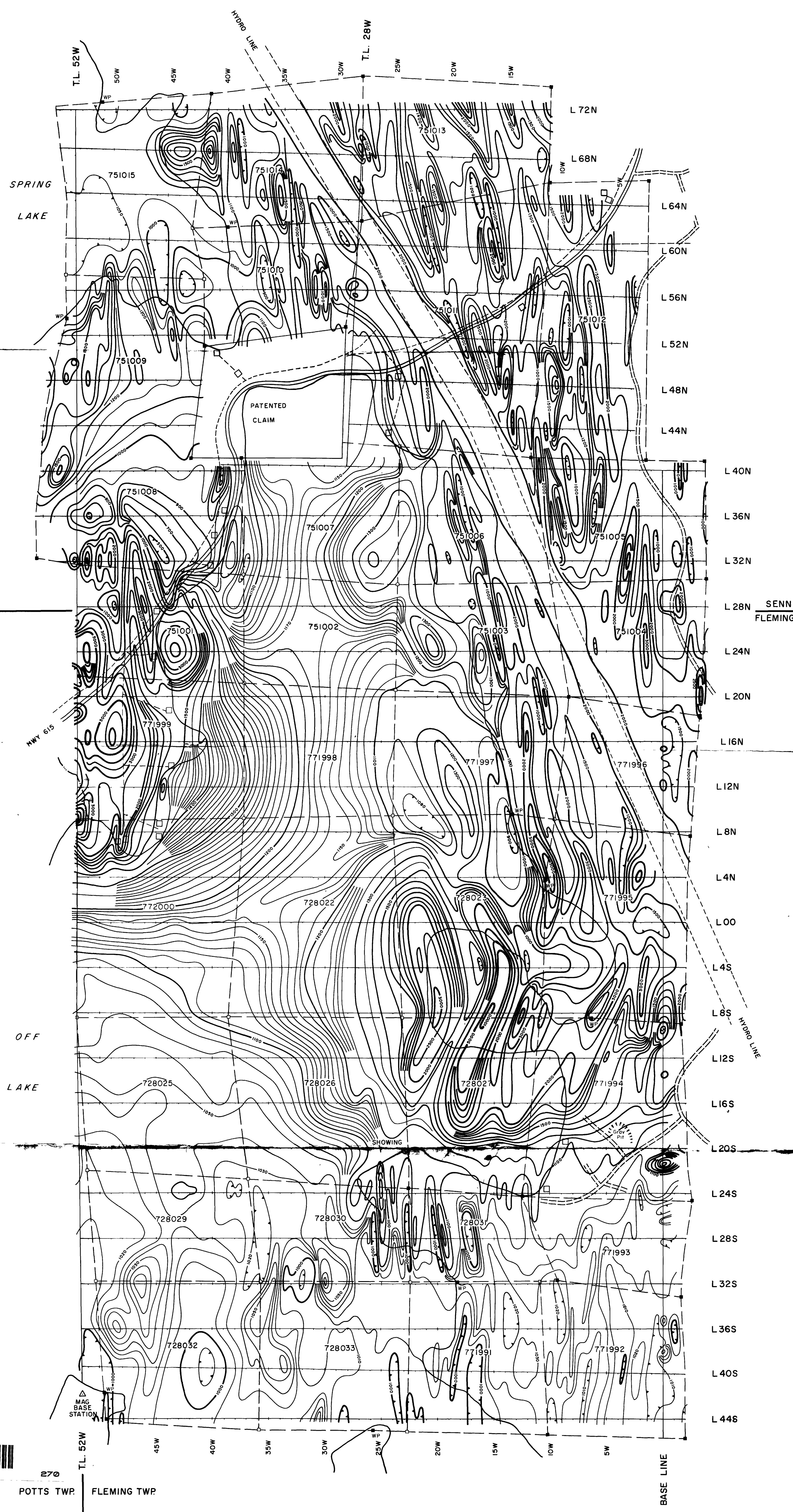
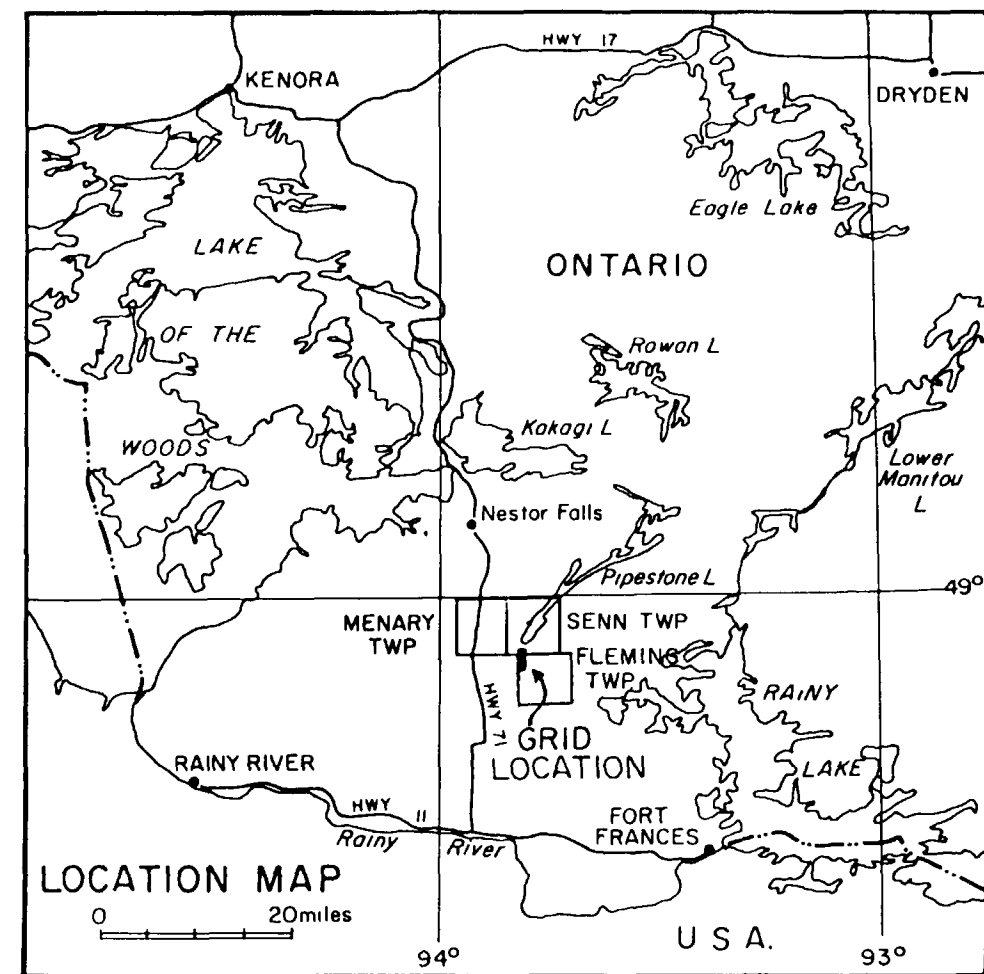
Survey Contractor  
**WALKER EXPLORATION LTD.**  
 Mississauga, Ontario  
 January 1985

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POTTS TWP FLEMING TWP





**LEGEND**

- Claim post, located, assumed, witness
- Claim line
- Cottages
- Power Line
- Roads, main, bush
- Lakeshore, Creek, Swamp
- Grid line with 100' stations

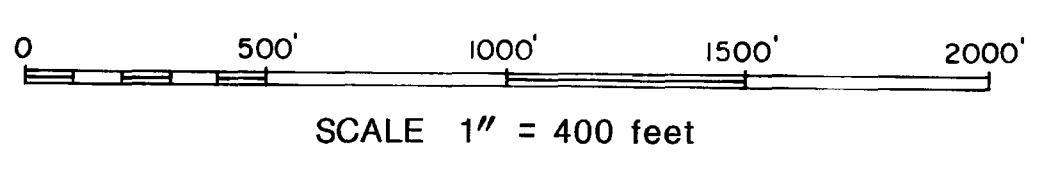
**SURVEY DATA**

- Instrument EDA PPM-300
- Base station EDA PPM-400
- Values + or - base level of 59,000 gammas
- Contour interval 10 gammas
- 10 gamma contour
- 100 gamma contour
- 1000 gamma contour
- 5000 gamma contour
- Depression

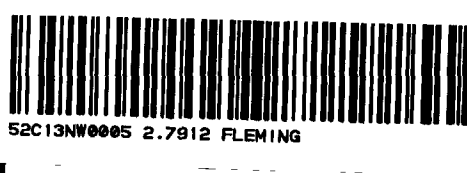


AGASSIZ RESOURCES LTD.  
**OFF LAKE GRID**  
**Senn and Fleming Townships**  
 KENORA M.D., ONTARIO

**Magnetometer Survey**  
**TOTAL INTENSITY CONTOURS**



Survey Contractor *27912*  
 WALKER EXPLORATION LTD.  
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 January 1985



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 POTTS TWP. FLEMING TWP