



010

SHANE RESOURCES LIMITED  
WEST RED LAKE PROPERTY  
BALL AND TODD TOWNSHIPS  
RED LAKE MINING DIVISION  
NTS 52 M 1

REPORT ON  
ULF-EM AND MAGNETIC SURVEYS

**RECEIVED**

JUN 30 1987

**MINING LANDS SECTION**

A. JAMES WALKER P.Eng.

MAY 23, 1987



52M01SE0161 2.10175 BALL TWP

010C

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## INTRODUCTION

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At the request of Brian Asbury, Consulting geologist for Shane Resources Limited, Walker Exploration Ltd. carried out magnetic and ULF-EM surveys over 52 mineral claims, located in the south part of Ball and Todd Townships, about 25 kilometers west of Red Lake.

Linecutting and chaining was done by another contractor, E.M.Hall of Toronto, in March and April 1987, (our crew chained about 40 Kilometers of line while waiting on grid preparation).

The geophysical surveys were carried out during the period March 25 - April 7, 1987, and amounted to approximately 93 Kilometers of lines surveyed.

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

The ULF electromagnetic survey was carried out using Geonics EM 16 units. Seattle Washington (NLK) and Annapolis Maryland (NSS) transmitter stations were read in two separate surveys.

## SUMMARY

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The magnetic survey results show a complex pattern likely representing mafic intrusives and magnetite, some cross faulting to the to the general east west trend is also shown.

The ULF-EM surveys generally coincide, showing several east west trending conductors, as well as some cross structures.

## PROPERTY

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The property consists of 51 mineral claims and 1 patented mining claim at the west end of Red Lake, about 25 kilometers west of the town of Red Lake. The claims are held under an option agreement by Shane Resources Limited.

The Claims are in the south part of Ball and Todd Townships and consist of the following claims, KRL 448434 to 448437, KRL 448439, KRL 775338, KRL 793736 to KRL 793754, KRL 827859 to KRL 827874 and KRL 828045 to KRL 828054. The patented claim is KRL 8929

#### PREVIOUS WORK

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In 1934 a 200 foot shaft and some drifting was done on claim KRL 448437, being part of the former West Red Lake Gold Mines Limited property. Some drilling was carried out in 1958 and again in 1961 in the shaft area, with good gold values. Other drilling has been reported on other parts of the property but no values reported

The general area has been active for 60 years and it is likely the property has seen considerable prospecting over the years, as well as private Airborne geophysical surveys.

Several neighbouring properties have been actively explored recently with diamond drilling and underground at the Mount Jamie Mine.

#### GEOLOGY

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The property is located on the Archean Red Lake greenstone belt which is about 48 km long and up to 25 km wide, made up of mafic to felsic volcanic rocks, and clastic sedimentary rocks, which have been intruded by intermediate to felsic rocks.

The property is mainly underlain by east west trending intermediate to basic volcanics with intrusives of quartz porphyry, granite and granodiorite. Nine gold occurrences are indicated on the claims.

The Shaft Vein is reported to be a quartz filled fracture in carbonated greenstone in contact with quartz porphyry. Sampling at the 200 foot level gave 0.40 oz. per ton gold across 42 inches for a length of 222 feet.

## 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 PPM 400 base station magnetometer, located on the road from Red Lake at shore of Lake, SE of property.

The field magnetometer and base station magnetometer have solid state memory for storage of values and locations of stations read. The instruments have built in clocks which are synchronized each day. The units are plugged together each evening and the built-in computer programme in the base station allows for automatic diurnal correction of data collected. This corrected data was stored on the cassette of an HP85 computer in the field, and later transferred to an IBM compatible computer for final plotting.

Observations of magnetic data were made at 12.5 meter stations on lines with 100 meter spacing. Values are plotted on a plan at a scale of 1:5000. Contours of values are plotted on a separate sheet.

Two separate ULF-EM surveys were performed on the same grid as the magnetic survey above, except that observations were made at 25 meter stations. Geonics EM 16 ULF units were used. Transmitter stations read were Seattle Washington (NLK) at a frequency of 24.8 kHz, and Annapolis Maryland (NSS) at a frequency of 21.4 kHz.

Inphase (Dip angle in percent) and quadrature values and profiles of values are plotted at a scale of 1:5000. Fraser filtered inphase values and contours of values are plotted on separate sheets.

## SURVEY RESULTS

The magnetic survey contours show a northeasterly trend in the east part of the grid, east west in the central area and northwesterly in the west section. The magnetic picture is generally complex, with isolated magnetic highs representing mafic intrusives or iron formation. Some faulting is suggested by the contours.

The trend in the shaft area is northeasterly, although the vein is northwesterly.

The Fraser filtered contours of the 2 ULF-EM surveys show general agreement across the grid. However, as expected, the northeasterly trends are best seen in the NLK data (Seattle) whereas the northwesterly trends are more continuous in the NSS (Annapolis) data.

The ULF surveys show several long strong conductors trending east west across the grid. A northwesterly trending zone is seen to the northwest of the shaft area.

Some conductors are coincident with an old power line that crosses the property from east to west.

CONCLUSIONS

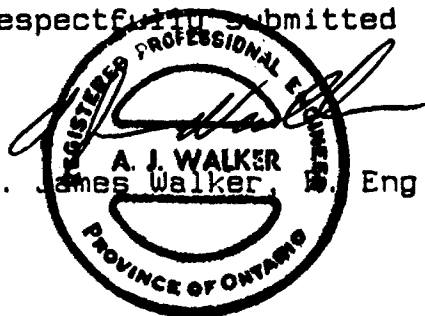
The magnetic survey has shown a complex area, with intrusives, iron formation and faulting suggested. It will be possible to distinguish rock units and should be an assist to prospecting and mapping of the claims.

The ULF-EM surveys have indicated several east west zones and cross structures and should also assist to further exploration of the group.

A full interpretation of the geophysical data, with known geological information is recommended for this interesting property.

Respectfully submitted

A. J. WALKER  
A. James Walker, B. Eng.



SURVEY DATA

Shane Resources Limited - West Red Lake Grid  
Ball and Todd Townships, Red Lake Mining Division, Ontario.

Geophysical Contractor - Walker Exploration Ltd.

Covering Dates - Linecutting - March 11 - April 6, 1987  
Magnetic Survey - March 25 - April 7, 1987  
ULF-EM Survey - March 25 - April 7, 1987  
Drafting and  
Processing - April 27 - May 1, 1987  
May 5 - May 11, 1987  
May 21 - May 23, 1987  
Report - May 23, 1987

Line Coverage - Linecutting - 93.2 km.  
Magnetic Survey - 93.2 km.  
Magnetic Readings - 7522  
Magnetic Station spacing - 12.5 meters  
Line Spacing - 100 meters  
ULF-EM survey NLK - 80.45 km.  
" " " NSS - 92.1 km.  
ULF-EM Readings NLK - 3280  
" " " NSS - 3751  
ULF Station Spacing - 25 meters

Crew

Linecutting - E.M.Hall, Toronto, Ontario  
Magnetic Survey - David Miles, London, Ontario  
ULF-EM Survey - Philip Miles, London, Ontario  
- Jacques Charest, Val D'Or, Quebec  
Drafting and  
Processing - A.J.Walker, Oakville, Ontario  
- T.J.Miles, Mississauga, Ontario  
- D.Miles, London, Ontario  
- P.Miles, London, Ontario  
- R.T. Marcroft, Mississauga, Ontario  
Field Report - A.J. Walker, Oakville, Ontario

Instruments

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Magnetic Survey

- EDA PPM 300 Proton, Total field  
Direct Reading, 0.1 Gamma  
Solid State Memory.
- EDA PPM 400 Base Station Recorder.  
(Located on road from Red Lake at shore  
of Lake, SE of property)

ULF-EM Survey

- Geonics EM 16  
Readings of Inphase (dip angle) and  
Quadrature in percent.  
Transmitters - NLK 24.8 kHz  
                  - NSS 21.4 kHz  
NS lines read facing southerly (NLK)  
EW lines read facing southwest (NSS)





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 MINING LANDS SECTION

### Introduction

At the request of Shane Resources Limited, the author made two visits to the 52 claim property located in the Red Lake area of northwestern Ontario at which times rock samples were collected for gold analysis.

### Summary

The assay results confirm the reported gold values from 1930's underground exploration on a gold-bearing structure as well as indicating several areas of gold occurrences for further work.

### The Property

The Shane Resources Limited Red Lake property consists of 51 mining claims and 1 patented mining claim at the west end of Red Lake about 25 km west of the town of Red Lake. The property is easily accessible by boat from Red Lake.

The claims are held under option by Shane Resources Limited, 600-128 4th Avenue South, Saskatoon, Saskatchewan and include claims in the south parts of Ball and Todd Townships: KRL 448434 to 448437, KRL 448439, KRL 775338, KRL 793736 to 793736, KRL 827859 to 827874 and KRL 828045 to 828054. The patented claim is KRL 8929.

### Previous Work

In 1934-35 a 200 foot shaft and some drifting was done on claim KRL 448437, being part of the former West Red Lake Gold Mines Limited property. Some drilling was done in 1958 and 1961 with reported gold values.

Overgrown trenches on various parts of the property indicate unreported prospecting activities in the past.

### Geology

The property is located in Red Lake archean greestone belt which is about 48km long and up to 25km wide, made up of mafic to felsic volcanic rocks, and clastic sedimentary rocks, which have been intruded by intermediate to felsic rocks.

The property is mainly underlain by east-west trending intermediate to basic volcanics with intrusives of quartz porphyry, granite and granodiorite. Nine gold occurrences are reported on government maps.

The Shaft Vein is reported to be a quartz-filled fracture in carbonated greenstone in contact with quartz porphyry. Sampling in 1934-35 at the 200 foot level gave 0.40 oz/ton gold across 42 inches for a length of 222 feet.

### Rock Sampling and Analysis

A total of 39 1-2 kg rock samples from outcrops, trenches and the Shaft Vein rock dump were taken during 2 visits to the property by the author in 1986.

Gold analyses by fire assay were done on 38 samples by X-Ray Laboratories of Don Mills, Ontario. Samples with values over 10,000 ppb were reassayed with values given in oz/ton gold.

Most of the samples were taken from:

1. The Shaft Vein rock dump which forms a shoreline promontory into the Phillips Channel of Red Lake on claim KRL 448437.
2. The East Vein, an area on claim ~~KRL 448439~~, about 200-300 metres ESE of the Shaft Vein area. Old reports also described this area as the "New Vein" or "Vein #2". Overgrown trenches from the 1934-5 exploration are common.
3. The #3 Vein area, an area on claim ~~KRL 328051~~, about 550 metres east of the Shaft Vein area. Several overgrown pits and trenches were found.

4. The West Trench Area on claim ~~1077633B~~ at the west end of the property.

Sample locations were marked by flagging. During the second visit a grid was available to locate the sample sites more accurately. Refer to Map 1.

#### Results and Conclusions

Tables 1 and 2 summarize the sample locations, descriptions and assay values.

Samples BCA-1 to 7 from the Shaft Vein rock dump confirm the range of assays expected from the reported values in the 1934-35 underground exploration. It is possible that this rock dump could be a source for a bulk sample for milling recovery tests or actually processed as ore.

Samples BCA-8,11,12,13 and 86-14,15 and 20 from the East Vein area range from trace to 0.029 ppm although 1935 reports indicated that a vein in this area averaged 0.52 oz/ton gold across 12 inches for a length of 75 feet. Further sampling is required in this area especially since samples 86-11 and 86-2, about 150-200 metres south and along strike from the East Vein area, assayed 3.56 oz/ton and 0.18 oz/ton respectively.

Samples from the #3 Vein area, BCA-17,18,19 and 86-18 indicate only low values and further work is required in this area to test for the #3 Vein.

Samples BCA-9 and 15 from the West Trench area confirm this as an interesting area with values of 3.0 ppm and 2.7 ppm gold respectively.

A programme of further sampling is recommended with emphasis on thorough cleaning and detailed sampling of the old trenches.

Table 1 Rock Sample Descriptions and Assays  
Red Lake Project, Shane Resources Limited

Samples Taken June 20-24, 1986

Sample	Location	Description	Gold Assay
BCA-1	Mine dump	"carbonate", greyish white, silicified, minute tr py, relict fine bx'd texture marked by hair-line qtz fractures, tr sericite. Cut by barren 5 mm qtz vein	..... 0.011ppm
BCA-2	Mine dump	Qtz and pyrite, 50% milky qtz with 50% brecciated 5mm to 5cm clasts of f. gr. pyrite. One py clast is cut by early clear grey 3mm qtz vein. Very fine traces of py in qtz.	..... 0.340 oz/ton
BCA-3	Mine dump	Similar to BCA-2	..... 0.460 oz/ton
BCA-4	Mine dump	Mylonitized volcanic rock, grey, fine ropey sheared texture, fine diss. cb (good fizz in dil. HCl) and cb'd slips, 1-3% fine diss. pyrite	..... 0.470 ppm
BCA-5	Mine dump	Silicified felsic volc(?), blotchy pale green, very distinctive rusty brown surface weathering, common 1-5mm qtz veins, less than 1% fine diss. py, 1/2% coarse py, no fizz	..... 0.770 ppm
BCA-6	Mine dump	Quartz, barren-looking, 5% rusty weathering clots of massive fine grained pyrite	..... 1.250 oz/ton
BCA-7	Mine dump	Like BCA-1,5 but with 2-3% diss py, occ'l 2-5mm qtz veins, light grey, silicified, no fizz	..... 0.520 ppm
BCA-8	East Vein Area.	Fractured qtz, occl'n calcite crystals, 15% alt'd mafic volcanic fragments. Pyrite rare or absent, Wallrock weathers to dark red-brown soil	..... 0.170 ppm
BCA-9	West Trench KRL 775338	50% barren quartz, 50% andesite with 5% diss.py. No fizz	..... 3.00 ppm (0.088 oz/ton)
BCA-10	Trench on small island in channel	Andesite with 10% coarse diss. pyrite (this trench is not on claim group)	..... 0.500 ppm
BCA-11	East Vein Area.	Greenish altered, granular int.(?) volcanic wallrock to 20 cm qtz vein. Weak diss. cb., tr. diss. pyrite	..... 0.006 ppm
BCA-12	East Vein Area.	40% milky qtz, 60% pale green granular rextll'd int. volcanic or porphyry w/3% amphibole, 1-2% diss. py. and pervasive diss. cb	..... 0.008 ppm
BCA-13	East Vein Area.	Quartz, pyrite rare or absent, 10% volc. inclusions with fine disseminated carbonate	..... 0.008 ppm
BCA-14	Vein sample	Quartz, pyrite rare or absent, 10% volc. incl's	..... 0.072 ppm
BCA-15	West Trench KRL 775338	Quartz (60%), Andesite (40%) with 5% diss pyrite	..... 2.700 ppm (0.078 oz/ton)
BCA-16	Trench at west end of Sadler Bay KRL 448434	50% barren milky quartz. 50% andesite with 5% diss. pyrite, weak cb fizz	..... 0.710 ppm
BCA-17	Trench in area of 1958 vein#3 drilling	50% barren quartz, 50% altered andesite with tr. py, diss. cb. weathering to gossan	..... 0.055 ppm
BCA-18	" "	75% pyritized rextll'd felsic-int. volcanic with 2-4% fine diss. py. 25% 5-10cm qtz vein	.... 0.041 ppm
BCA-19	" "	90% quartz in dark red-brown gossan, only qtz vein material sent for assay	..... 0.009 ppm

Note: Sample BCA-14 also taken from Vein 3 area.

Notes on Assaying: All samples were initially assayed for ppb gold with a detection limit of 1.0 ppb. Values over 10000 ppb could not be expressed. These initial assays have been expressed above in ppm ( 1 oz/ton = 34.285 ppm). The 3 high values (BCA-2,3 and 6) were reassayed with a detection limit of 0.001 oz/ton or 0.034 ppm and have been expressed in oz/ton Au.

Table 2 Rock Sample Descriptions and Assays  
Red Lake Project, Shane Resources Limited

Samples Taken September 26 to October 7, 1986

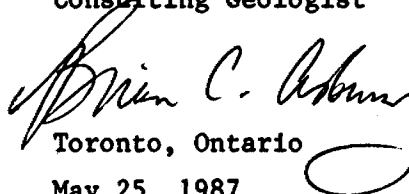
<u>Sample</u>	<u>Location</u>	<u>Description</u>	<u>Gold Assay</u>
86-1	250' S of #4 post of KRL 448437 on shoreline.	From 6" qtz-fsp vein, no pyrite, rusty.	0.002 ppm
86-2	L1N, 1E on shore	From 2cm qtz vein, 140/80W, no py.	6.10 ppm (0.18 oz/ton)
86-3	-as above-	From 10cm brown cb'd qtz vein at 120/55N.	0.42 ppm
86-4	-as above-	From qtz vein in 1-2m shear zone at 130/80E.	0.39 ppm
86-5	6+45N, 0+15W	Qtz from 1.5cm vein at 100/80N, 3cm py halo in volcanics.	0.22 ppm
86-6	BL, 6+20N	Qtz from 1-2cm vein at 000/35W, no py. In emerald green porphyry.	0.005 ppm
86-7	BL, 7+25N (shore)	Qtz from enechelon veins in mafic 1m dyke(?).	1.90 ppm (0.05 oz/ton)
86-8	Tp line at #1 post of KRL 448439	Qtz from qv's in amphibolite zone or dyke intruding felsic unit.	0.002 ppm
86-9	South bay of Sadler Bay, east shore.	Sulphide-chert iron formation, 20% pyrite.	below 0.001 ppm
86-10	0+55N, 0+85E	Quartz porphyry with tr. pyrite	0.056 ppm
86-11	1+15N, 0+65E, south extension of East Vein?	5-8cm qtz vein with 5-10% py.	+10 ppm so reassayed value of 3.56 oz/ton
86-12	1+50N, 0+75W, south extension of Shaft Vein?	altered mafic volcanics	not assayed
86-13	2+00N, 0+75W, south extension of Shaft Vein?	5%pyrite in mafic volcanic rock	0.22 ppm
86-14	2+90N, 0+05E East Vein area	Qtz from 5cm vein in felsic rock	0.037 ppm
86-15	3+30N, 0+50E, East Vein area	Qtz from 10-25 cm vein in diorite, pyrite rare or absent.	0.029 ppm
86-16	3+05N, 2+50E, #3 Vein area.	Dirty qtz from 25cm vein in 40cm zone of sheared felsic(?) rock.	0.14 ppm
86-17	Trench, shoreline, west boundary of KRL448434	Sil'd carbonate w/20% clots+stringers of qtz, Scattered py cubes	0.032 ppm
86-18	-as 86-9 loc'n-	35% py nodules in oxidized IF	0.22 ppm
86-19	Trench, 1+50N, 0+10E.	Quartz diorite w/ tr.to 1% pyrite.	0.03 ppm
86-20	2+50N, 0+50W, East Vein area.	Intermed. volcanic rock w/2-5% py.	0.015 ppm

Certificate of Qualification

I, Brian Clarke Asbury, do hereby certify that:

1. I reside at 35 Hillside Avenue East, Toronto, Ontario.
2. I am a graduate of the University of Toronto with the degrees of Bachelor of Science (Geology; 1973) and Master of Science (Geology; 1975).
3. I have been engaged in mineral exploration for over 12 years.
4. The attached report entitled " Report on Rock Sampling and Analysis for Shane Resources Limited, Red Lake Property, Ontario" is based on personal examinations of the property in 1986.
5. I have not and do not expect to receive any interest, direct or indirect, in the property.

Brian C. Asbury  
Consulting Geologist

  
Toronto, Ontario  
May 25, 1987





Ministry of Northern Development and Mines

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) GEOCHEMICAL (ASSAY EXPENDITURES)
Township or Area BALL, TODD TPS.
Claim Holder(s) SHANE RESOURCES LTD.
600-128 4th Ave S, Siskiyon Sask
Survey Company B.C. Asbury 57K 1M8
Author of Report B.C. Asbury
Address of Author 20 Rothmere Dr. Toronto M4M 1V4
Covering Dates of Survey June 20 1986 - Oct 7 1986
(linecutting to office)
Total Miles of Line Cut 9.0 km.

MINING CLAIMS TRAVERSED
List numerically

Table with columns for (prefix) and (number) for listing mining claims.

If space insufficient, attach list

SPECIAL PROVISIONS CREDITS REQUESTED table with columns for Geophysical, Geological, Geochemical and DAYS per claim.

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

Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_
(enter days per claim)

DATE: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_
Author of Report or Agent

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

Previous Surveys

Table with columns: File No., Type, Date, Claim Holder.

TOTAL CLAIMS \_\_\_\_\_

OFFICE USE ONLY

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken KEL 448437, 448439, 828051, 775338

Total Number of Samples 39

Type of Sample rock samples  
(Nature of Material)

Average Sample Weight 1-2 Kg.

Method of Collection hammered from outcrops

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 Au, ppm, ppb, oz/ton

Field Analysis (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Field Laboratory Analysis

No. (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Commercial Laboratory (41 assay tests)

Name of Laboratory Y-RAY LABORATORIES LTD  
DOM MILLS, ONTARIO

Extraction Method \_\_\_\_\_

Analytical Method FIRE ASSAY, DCP on bead.

Reagents Used \_\_\_\_\_

General \_\_\_\_\_



CERTIFICATE OF ANALYSIS

TO: BRIAN C. ASSBURY  
BOX 456, STATION K  
TORONTO, ONTARIO  
M4P 2G7

CUSTOMER NO. 40

SAMPLE SUBMITTED  
21-NOV-85

REPORT NO. 30132

REF. FILE 25152-03

10 SOCK

WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AU PBB	FADCP	1.000
AU OZ/TON	FA	0.001

X-RAY ASSAY LABORATORIES LIMITED

DATE 21-NOV-85

CERTIFIED BY .....



21-NOV-88

REPORT 30132

REF. FILE 25762-33 PAGE 1 OF 1

SAMPLE	AU PPM	AU OZ/TON
36-1	2	--
36-2	6100	--
36-3	420	--
36-4	390	--
36-5	220	--
36-6	5	--
36-7	1900	--
36-8	2	--
36-9	<1	--
36-10	56	--
36-11	>10000	3.560
36-12	220	--
36-14	37	--
36-15	29	--
36-16	140	--
36-17	32	--
36-18	220	--
36-19	30	--
36-20	15	--

> - CONCENTRATION TOO HIGH FOR GEOCHEMICAL ANALYSIS



copy sent to J. E.  
for Shave file

111-

CERTIFICATE OF ANALYSIS

SHAVE RESIDUES

TO: BRIAN C. ASBURY  
BOX 458, STATION K  
TORONTO, ONTARIO  
M2C 2G7

CUSTOMER NO. 140

DATE SUBMITTED  
4-JUL-86

REPORT 28387

REF. FILE 24050-35

10 ROCKS

WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AU PFB	FADCP	1.000

*July 24/86  
requested*

X-RAY ASSAY LABORATORIES LIMITED

DATE 17-JUL-86

CERTIFIED BY .....

SAMPLE	NO. OF
BCA-1	11
BCA-2	10000
BCA-3	>10000
BCA-4	470
BCA-5	770
BCA-6	>10000
BCA-7	500
BCA-8	170
BCA-9	3000
BCA-10	500
BCA-11	4
BCA-12	6
BCA-13	8
BCA-14	72
BCA-15	2700
BCA-16	710
BCA-17	55
BCA-18	41
BCA-19	0

*July 24/66  
requested  
re-run*

> - CONCENTRATION TOO HIGH FOR TREATMENT BY GEOCHEMICAL METHOD

**XRAL**

*Copy sent to J.2  
for Shave File*

-13-

CERTIFICATE OF ANALYSIS

SHAVE RESOURCES

TO: BRIAN C. ASBURY  
BOX 456, STATION K  
TORONTO, ONTARIO  
M4P 2G9

CUSTOMER NO. 40

DATE SUBMITTED  
28-JUL-86

REPORT 26382

REF. FILE 26352-PM

3 PULPS ON HAND RE:WD#24950

WERE ANALYSED AS FOLLOWS:

AU OZ/TON	METHOD	DETECTION LIMIT
	FA	0.001

*6/1/86*

DATE 01-AUG-86

X-RAY ASSAY LABORATORIES LIMITED  
CERTIFIED BY

**XRAL**

-14-

01-AUG-86 REPORT 28592 REF. FILE 24362-PH PAGE 1 OF 1

SAMPLE AU OZ/TON

BCA-2 0.340  
BCA-3 0.450  
BCA-6 1.250





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, VLF 2 channels, - separate surveys by 2 operators on VLF  
Township or Area BALL, TODD Tps.  
Claim Holder(s) SHANE RESOURCES LTD,  
600-128 4<sup>TH</sup> St S., Saskatoon, Sask S7K1M8  
Survey Company WALKER EXPLORATION LIMITED  
Author of Report A. JAMES WALKER, P. Eng.  
Address of Author Oakville, Ontario  
Covering Dates of Survey MARCH 11, 1987 - MAY 23, 1987  
(linecutting to office)  
Total Miles of Line Cut 93.2 km

**MINING CLAIMS TRAVERSED**  
List numerically

KRL 448434 to 448437 incl.  
(prefix) (number)  
KRL 448439  
KRL 775338  
KRL 793736 to 793754 incl.  
KRL 822859 to 822874 incl.  
KRL 828045 to 828054 incl.  
KRL 8929

If space insufficient, attach list

**SPECIAL PROVISIONS  
CREDITS REQUESTED**

DAYS  
per claim

ENTER 40 days (includes line cutting) for first survey.  
ENTER 20 days for each additional survey using same grid.

Geophysical  
--Electromagnetic 40  
--Magnetometer 40  
--Radiometric \_\_\_\_\_  
--Other \_\_\_\_\_  
Geological \_\_\_\_\_  
Geochemical \_\_\_\_\_

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

Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
(enter days per claim)

DATE: May 25, 1987 SIGNATURE: Brian C. Ashman  
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications 2, 2054

**Previous Surveys**

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 52

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations \_\_\_\_\_ Number of Readings \_\_\_\_\_  
Station interval \_\_\_\_\_ Line spacing \_\_\_\_\_  
Profile scale \_\_\_\_\_  
Contour interval \_\_\_\_\_

MAGNETIC

Instrument EDA PPM 300 PROTIN, Total Field  
Accuracy - Scale constant Direct Reading, 0.1 gamma  
Diurnal correction method EDA PPM 400 Base Station Recorder  
Base Station check-in interval (hours) base station clock synchronized with survey instrument  
Base Station location and value on road from Red Lake at shore of lake SE of property

ELECTROMAGNETIC

Instrument GEONICS EM 16 VLF - 2 stations read by separate operators  
Coil configuration doing separate surveys  
Coil separation \_\_\_\_\_  
Accuracy \_\_\_\_\_  
Method:  Fixed transmitter  Shoot back  In line  Parallel line  
Frequency NLK (24.8 kHz), NSS 21.4 kHz.  
(specify V.L.F. station)  
Parameters measured In phase (dip angle), Quadrature (%)

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 \_\_\_\_\_

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) \_\_\_\_\_

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 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



Recorded Holder	SHANE RESOURCES LTD
Township or Area	BALL & TODD TOWNSHIPS

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	KRL 775338 793736 to 54 inclusive 827859 to 74 inclusive 828045 to 54 inclusive
Electromagnetic _____ 40 _____ days	
Magnetometer _____ 40 _____ days	
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical _____ days	
Man days <input type="checkbox"/> Airborne <input type="checkbox"/>	
Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/>	
<input type="checkbox"/> Credits have been reduced because of partial coverage of claims.	
<input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

--

No credits have been allowed for the following mining claims

<input type="checkbox"/> not sufficiently covered by the survey	<input type="checkbox"/> insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.



Recorded Holder	SHANE RESOURCES LTD
Township or Area	BALL AND TODD TOWNSHIPS

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<b>Geophysical</b> Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column <b>Geological</b> _____ days <b>Geochemical</b> _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input checked="" type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input checked="" type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	\$359.00 SPENT ON ANALYSES OF SAMPLES TAKEN FROM MINING CLAIMS:  KRL 775338 448434 - 37 -39  24 ASSESSMENT WORK DAYS ARE ALLOWED WHICH MAY BE GROUPED IN ACCORDANCE WITH SECTION 76(6) OF THE MINING ACT.

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey       insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.

September 24, 1987

Your File: 61-87  
Our File: 2.10175

Mining Recorder  
Ministry of Northern Development and Mines  
P.O. Box 324  
Red Lake, Ontario  
POV 2M0

Dear Sir:

RE: Notice of Intent dated September 3, 1987  
Geophysical (Electromagnetic and Magnetometer) Survey  
and Data for Assaying on Mining Claims KRL 775338,  
et al, in Ball & Todd Townships

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

R.M. Charnesky (Mrs.)  
Acting Manager  
Mining Lands Section  
Mineral Development and Lands Branch  
Mines and Minerals Division

Whitney Block, Room 6610  
Queen's Park  
Toronto, Ontario  
M7A 1W3

Telephone: (416) 965-4888

DK:p1

cc: Shane Resources Ltd.  
Suite 600  
128, 4th Street South  
Saskatoon, Saskatchewan  
S7K 1M8

Mr. G.H. Ferguson  
Mining & Lands Commissioner  
Toronto, Ontario

Resident Geologist  
Red Lake, Ontario

	EM	mag		EM	mag		EM	mag
775338	✓	✓	793754	✓	✓	828045	✓	✓
793736	✓	✓	827859	✓	✓	46	✓	✓
37	✓	✓	60	✓	✓	47	✓	✓
38	✓	✓	61	✓	✓	48	✓	✓
39	✓	✓	62	✓	✓	49	✓	✓
40	✓	✓	63	✓	✓	50	✓	✓
41	✓	✓	64	✓	✓	51	✓	✓
42	✓	✓	65	✓	✓	52	✓	✓
43	✓	✓	66	✓	✓	53	✓	✓
44	✓	✓	67	✓	✓	54	✓	✓
45	✓	✓	68	✓	✓			
46	✓	✓	69	✓	✓			
47	✓	✓	70	✓	✓			
48	✓	✓	71	✓	✓			
49	✓	✓	72	✓	✓			
50	✓	✓	73	✓	✓			
51	✓	✓	74	✓	✓			
52	✓	✓						
53	✓	✓						

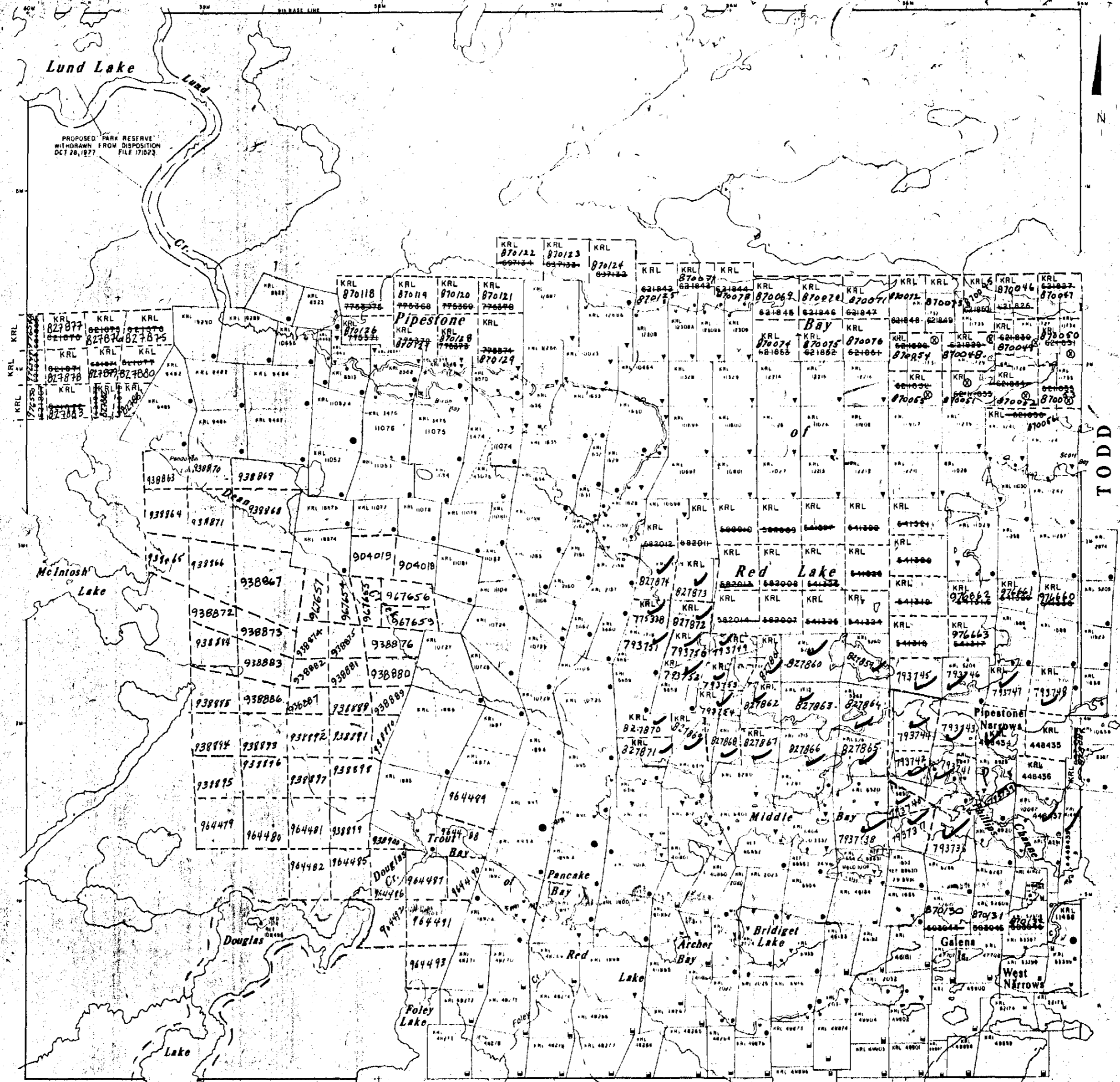


**LEGEND**

- 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



**DISPOSITION OF CROWN LANDS**

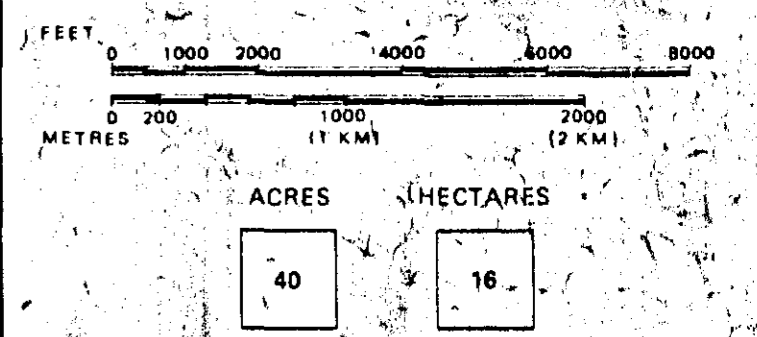
TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
SURFACE RIGHTS ONLY	○
MINING RIGHTS ONLY	◐
LEASE SURFACE & MINING RIGHTS	■
SURFACE RIGHTS ONLY	□
MINING RIGHTS ONLY	◑
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊗
SAND & GRAVEL	⊙

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 389, SEC. 63, SUBSEC. 1.

RED LAKE MINING DIVISION  
JUN 12 1987  
RED LAKE, ONTARIO

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

SCALE: 1 INCH = 40 CHAINS



TOWNSHIP OF  
**BALL**  
DISTRICT  
**KENORA**  
PATRICIA PORTION  
MINING DIVISION  
**RED LAKE**

Ontario Ministry of Natural Resources Surveys and Mapping Branch

Date 8/2/80 Plan No. M-2136  
National Topographic Series

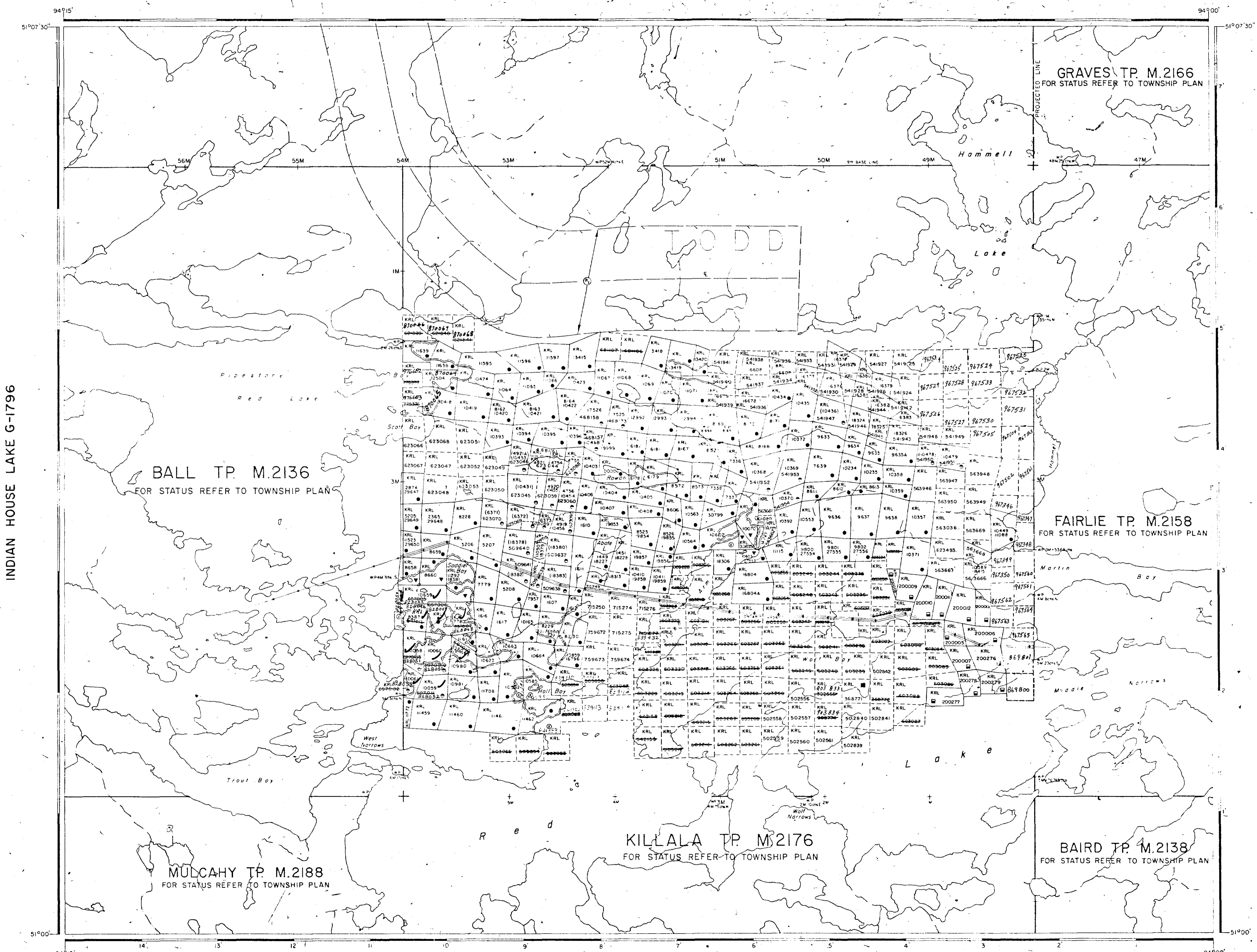


REFERENCES

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
SEC. 36/80	W.19/83	15/1/83	S.R.O.	188571
Sec. 36	W.4/86	17/01/86	M+S	188555 188585



RED LAKE MINING DIVISION  
MAY 11 1987  
RED LAKE, ONTARIO

No. 041/86 REOPENED FOR STAKING JULY 15 1986

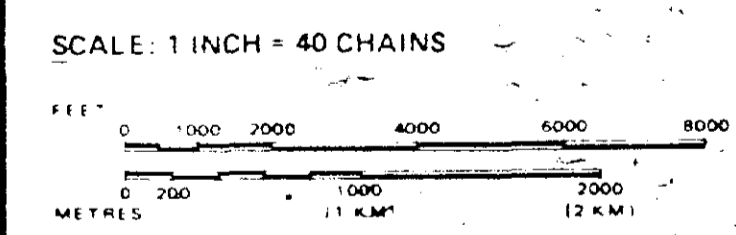
LEGEND

- 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 SHORE LINE
- MARSH OR MUSHEG
- MINES
- TRAVERSE MONUMENT

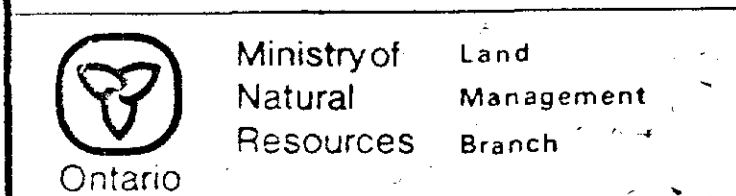
DISPOSITION OF CROWN LANDS

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	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6 1913 VESTED IN ORIGINAL PATENTEES BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63 SUBSEC. 1



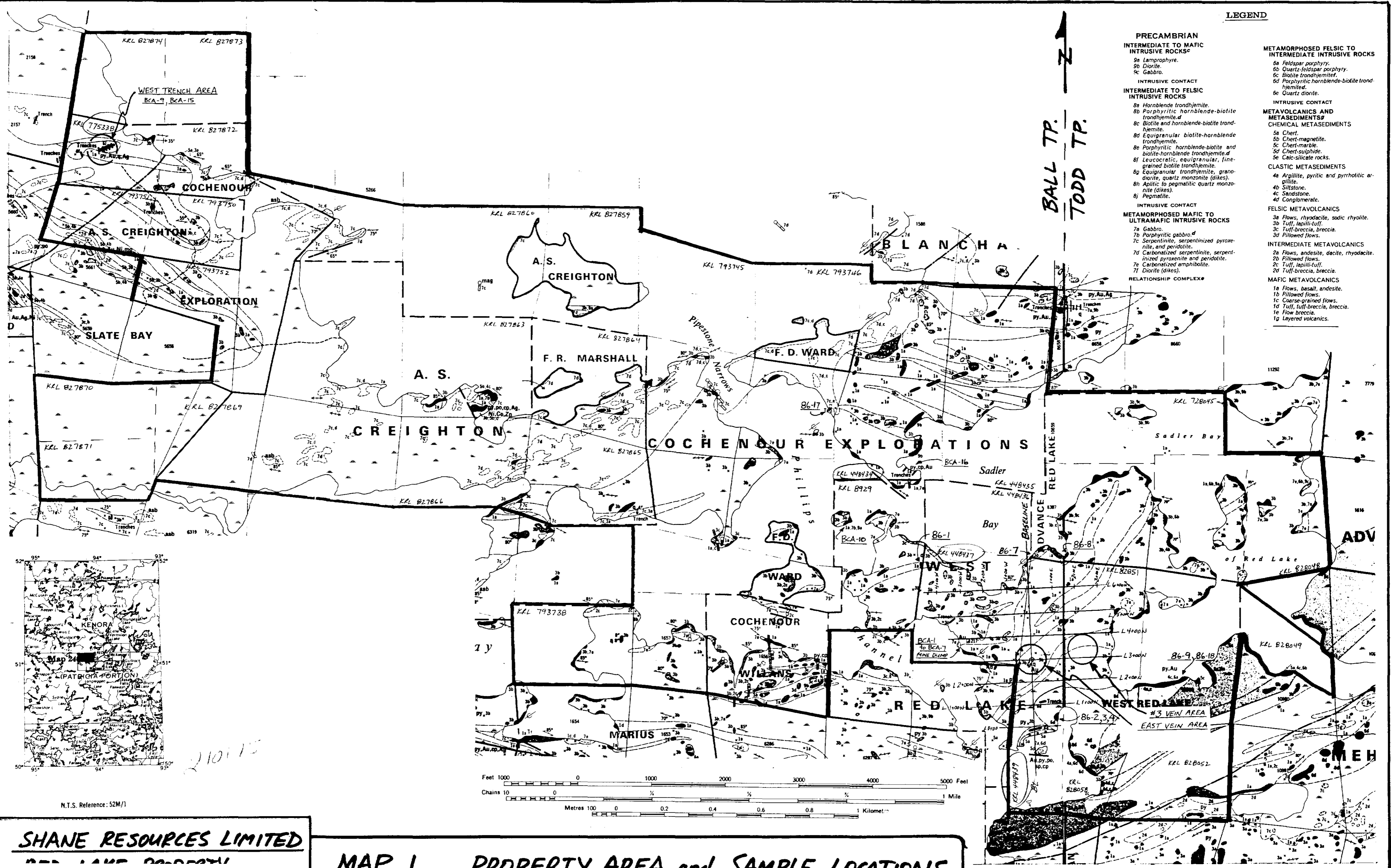
AREA  
**HAMMELL LAKE**  
M.N.R. ADMINISTRATIVE DISTRICT  
RED LAKE  
MINING DIVISION  
RED LAKE  
LAND TITLES / REGISTRY DIVISION  
KENORA/PATRICIA



Date: FEBRUARY 14, 1983  
Number: **G-1789**

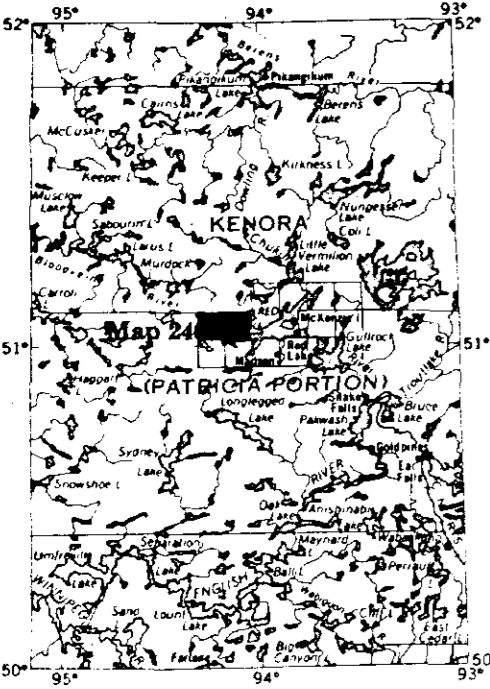
RED LAKE MINING DIVISION  
MAY 11 1987  
RED LAKE, ONTARIO



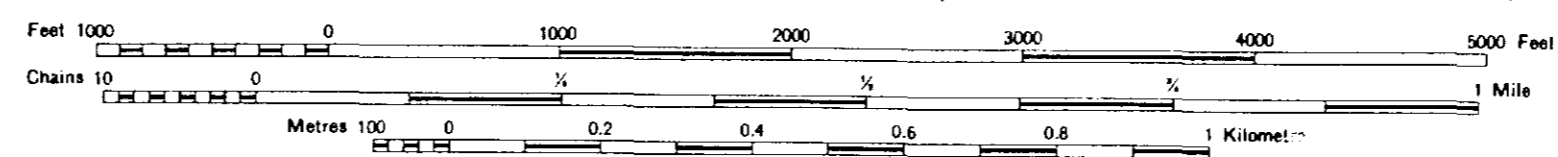


**LEGEND**

- PRECAMBRIAN INTERMEDIATE TO MAFIC INTRUSIVE ROCKS<sup>c</sup>**
  - 9a Lamprophyre.
  - 9b Diorite.
  - 9c Gabbro.
- INTRUSIVE CONTACT**
- INTERMEDIATE TO FELSIC INTRUSIVE ROCKS**
  - 8a Hornblende trondhjemite.
  - 8b Porphyritic hornblende-biotite trondhjemite.<sup>d</sup>
  - 8c Biotite and hornblende-biotite trondhjemite.
  - 8d Equigranular biotite-hornblende trondhjemite.
  - 8e Porphyritic hornblende-biotite and biotite-hornblende trondhjemite.<sup>d</sup>
  - 8f Leucocratic, equigranular, fine-grained biotite trondhjemite.
  - 8g Equigranular trondhjemite, granodiorite, quartz monzonite (dikes).
  - 8h Aplitic to pegmatitic quartz monzonite (dikes).
  - 8j Pegmatite.
- INTRUSIVE CONTACT**
- METAMORPHOSED MAFIC TO ULTRAMAFIC INTRUSIVE ROCKS**
  - 7a Gabbro.
  - 7b Porphyritic gabbro.<sup>d</sup>
  - 7c Serpentinized, serpentinized pyroxenite and peridotite.
  - 7d Carbonized serpentinite, serpentinized pyroxenite and peridotite.
  - 7e Carbonized amphibolite.
  - 7f Diorite (dikes).
- RELATIONSHIP COMPLEX<sup>e</sup>**
- METAMORPHOSED FELSIC TO INTERMEDIATE INTRUSIVE ROCKS**
  - 6a Feldspar porphyry.
  - 6b Quartz-feldspar porphyry.
  - 6c Biotite trondhjemite.<sup>d</sup>
  - 6d Porphyritic hornblende-biotite trondhjemite.
  - 6e Quartz diorite.
- INTRUSIVE CONTACT**
- METAVOLCANICS AND METASEDIMENTS<sup>f</sup>**
- CHEMICAL METASEDIMENTS**
  - 5a Chert.
  - 5b Chert-magnetite.
  - 5c Chert-marble.
  - 5d Chert-sulphide.
  - 5e Calc-silicate rocks.
- CLASTIC METASEDIMENTS**
  - 4a Argillite, pyritic and pyrrhotitic argillite.
  - 4b Siltstone.
  - 4c Sandstone.
  - 4d Conglomerate.
- FELSIC METAVOLCANICS**
  - 3a Flows, rhyolacite, sodic rhyolite.
  - 3b Tuff, lapilli-tuff.
  - 3c Tuff-breccia, breccia.
  - 3d Pillowed flows.
- INTERMEDIATE METAVOLCANICS**
  - 2a Flows, andesite, dacite, rhyolacite.
  - 2b Pillowed flows.
  - 2c Tuff, lapilli-tuff.
  - 2d Tuff-breccia, breccia.
- MAFIC METAVOLCANICS**
  - 1a Flows, basalt, andesite.
  - 1b Pillowed flows.
  - 1c Coarse-grained flows.
  - 1d Tuff, tuff-breccia, breccia.
  - 1e Flow breccia.
  - 1g Layered volcanics.



N.T.S. Reference: 52M/1



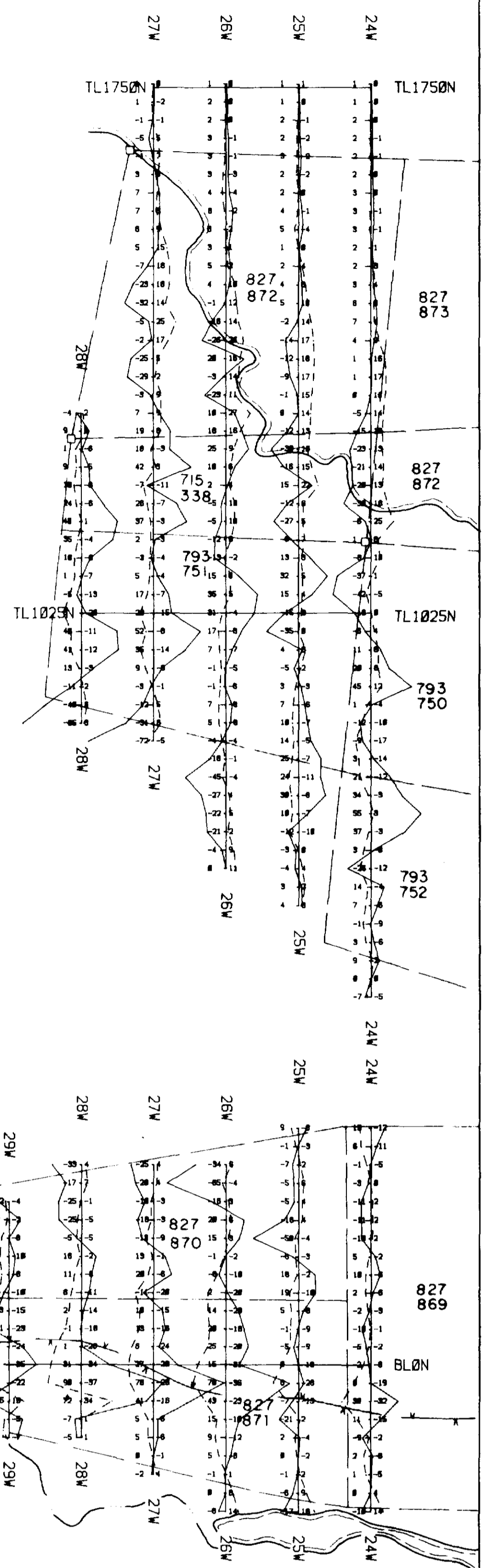
**SHANE RESOURCES LIMITED**

**MAP 1 PROPERTY AREA and SAMPLE LOCATIONS**



BASE MAP FROM O.G.S. MAP 2265 (BALL TP.), MAP 2406 (TODD TP.)

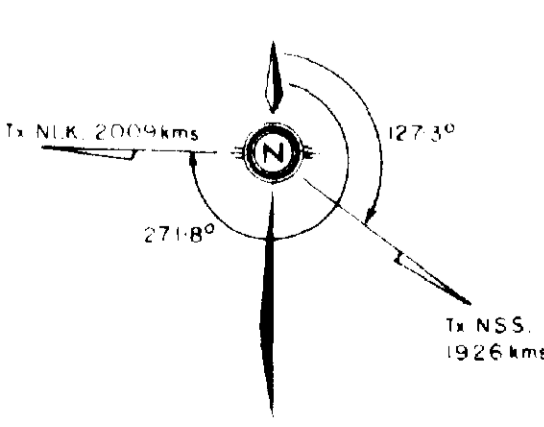
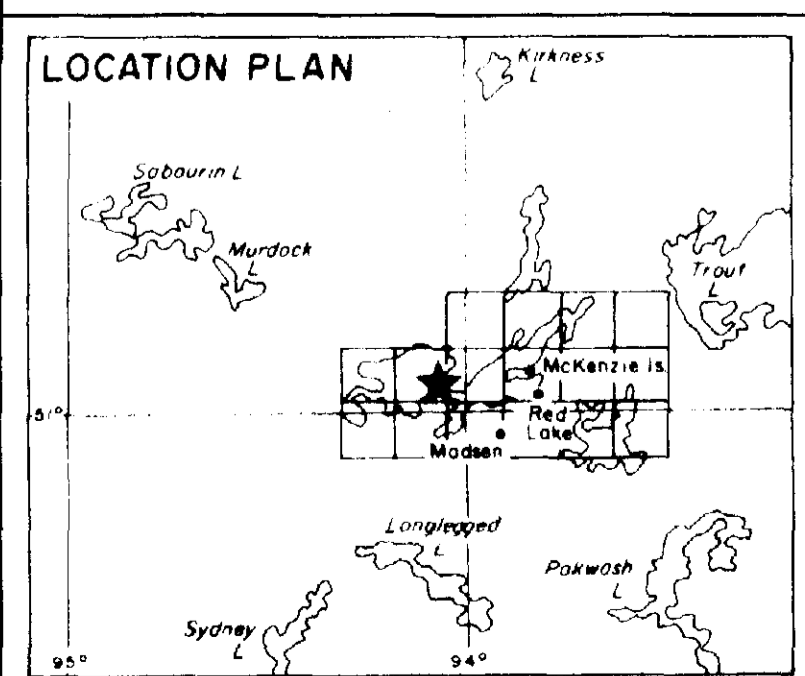
RED LAKE



RED LAKE  
Middle Bay



210175



N75 52 - M - 1

- LEGEND
- Stream, Swamp, Lakeshore.....
  - Claim Post and line.....
  - Instrument..... Geonics EM-16
  - Transmitter..... NLK, Seattle, Wash., 24.8 kHz
  - Readings taken facing South, plotted IP | DP
  - Profile, Scale = 48 2 / cm..... - | +
  - Inphase Profile.....
  - Quadrature Profile.....

SHEET INDEX

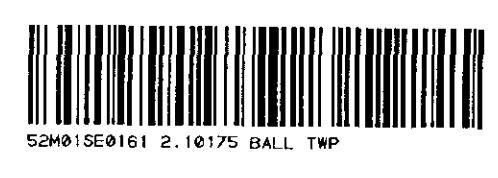
1	2	3
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SHANE RESOURCES LIMITED  
WEST RED LAKE PROPERTY  
RED LAKE AREA ONTARIO  
VLF EM SURVEY - T<sub>x</sub> NLK  
VLF EM VALUES & PROFILES

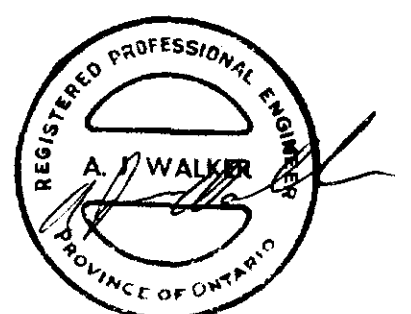
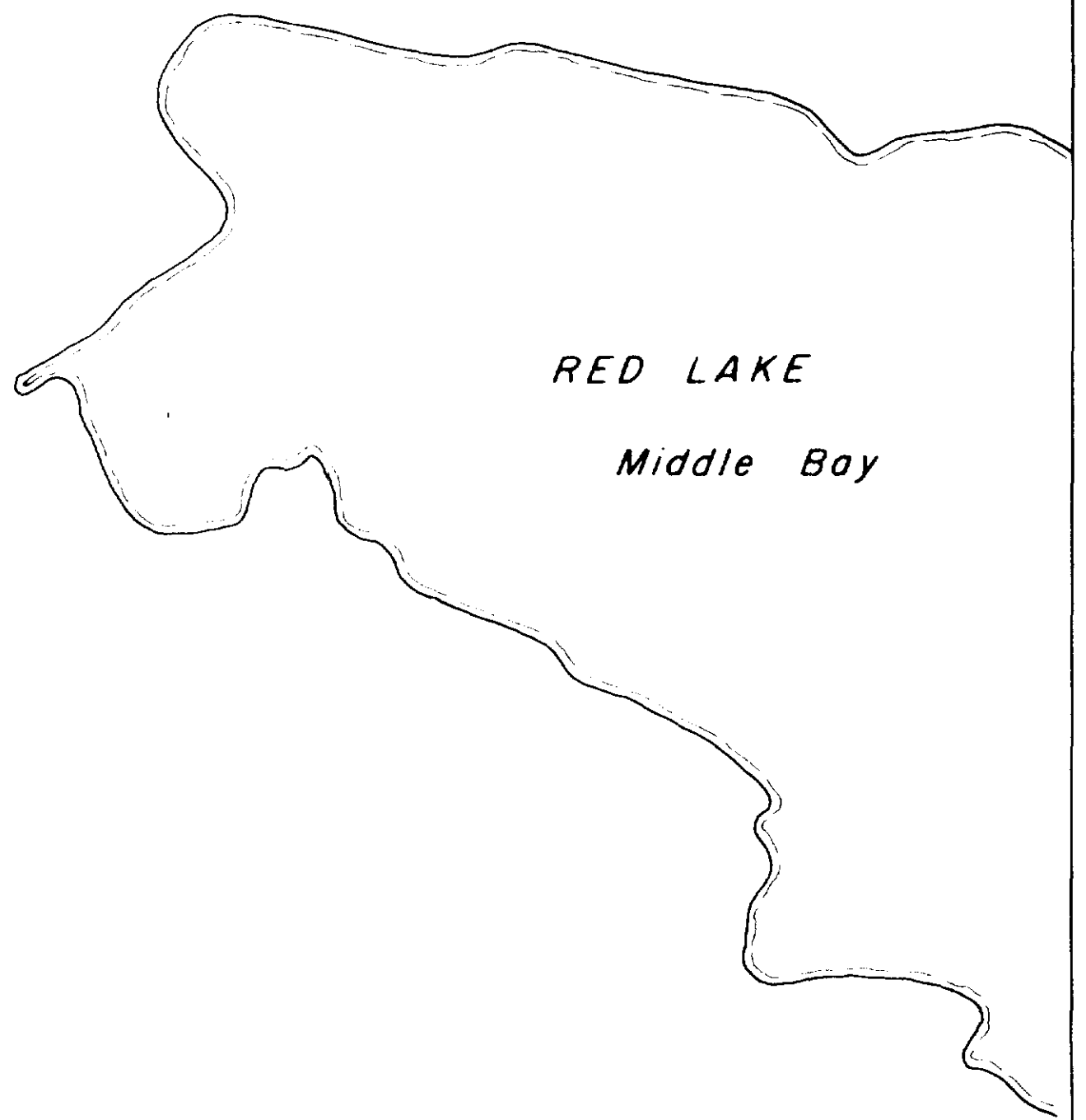
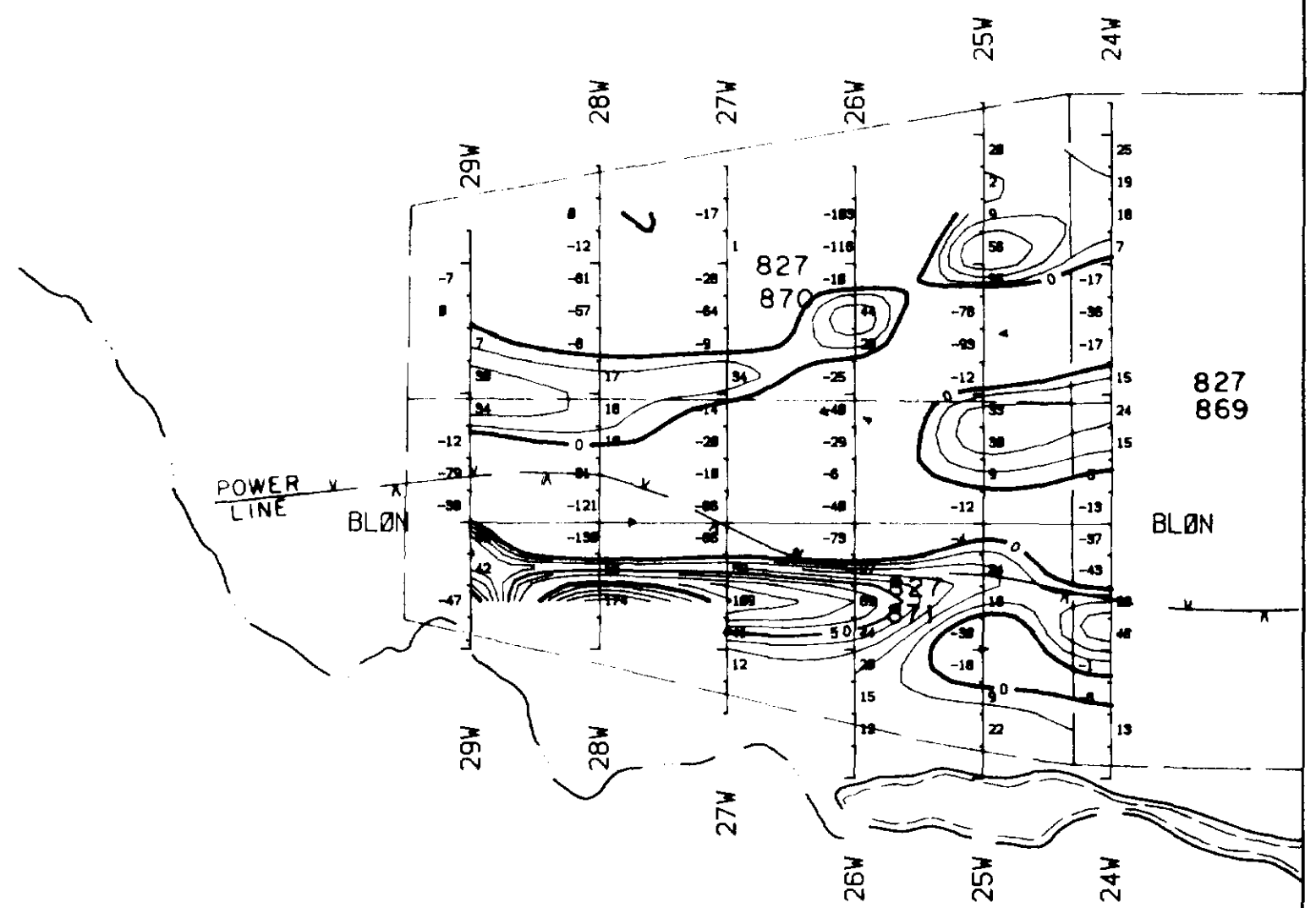
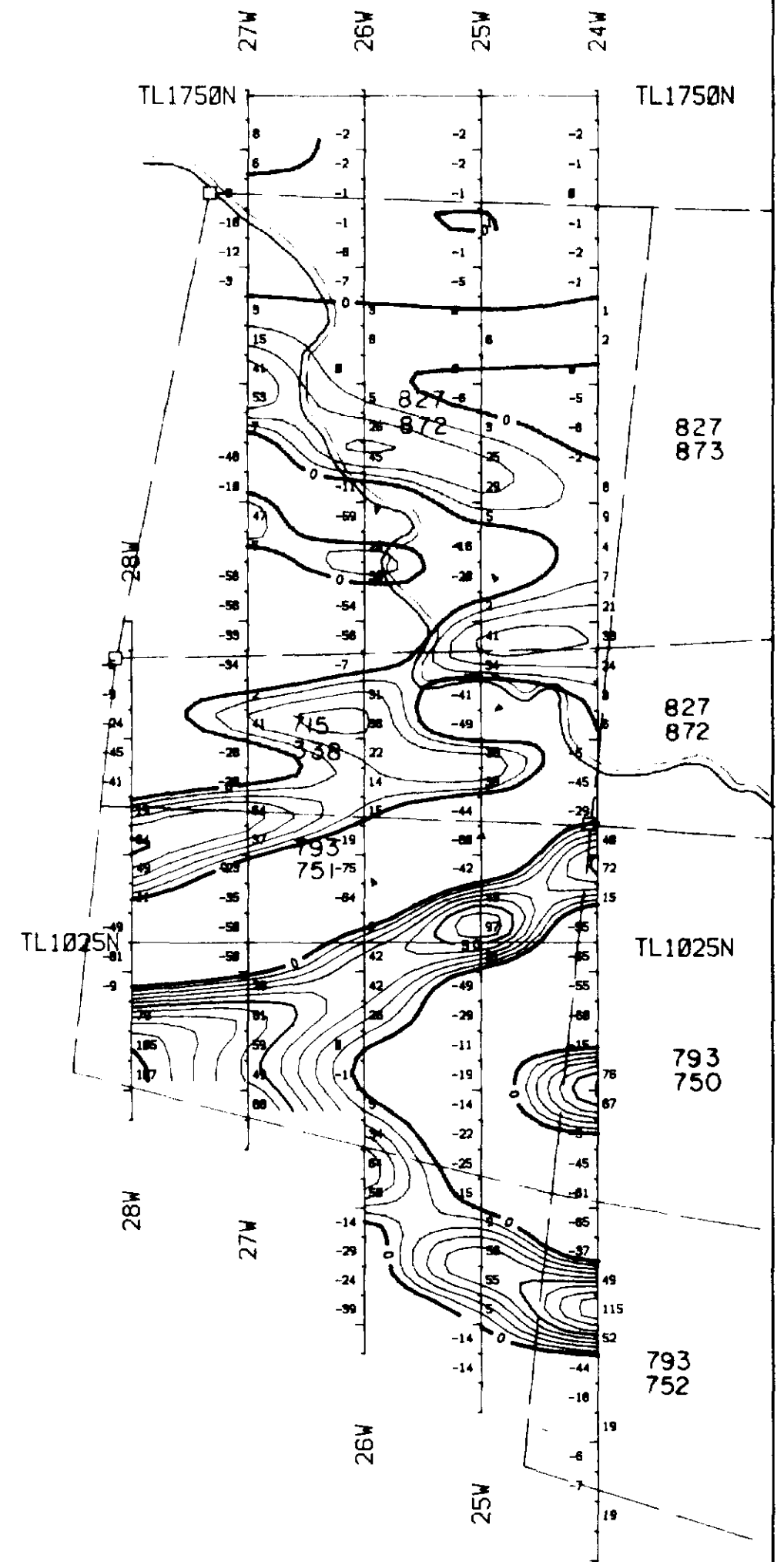
0 100 200 300 meters  
Scale 1 : 5000

WALKER EXPLORATION LTD.  
Mississauga Ontario.  
APRIL 1987

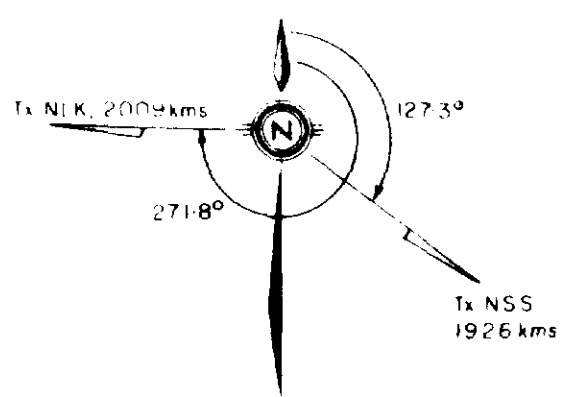
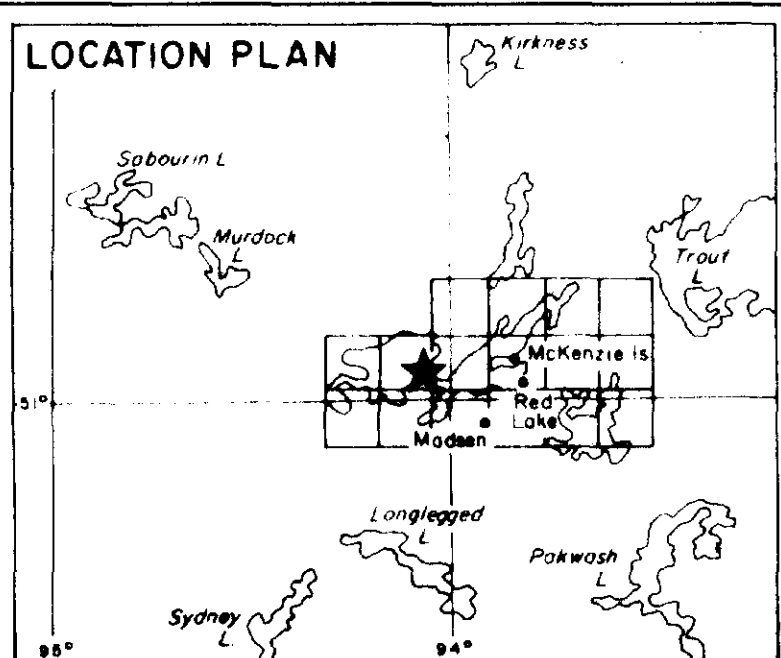
DWG. 1



RED LAKE



210175



NTS 52 - M - 1

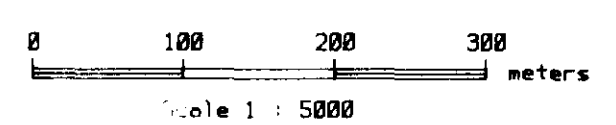
- LEGEND
- Stream/Swamp/Lakeshore.....
  - Claim Post and line.....
  - Instrument..... Geonics EM-16
  - Transmitter..... NLK, Seattle, Wash., 24.8 kHz
  - Contours of Filtered VLF Inphase... 10 Interval
  - 10 contour.....
  - 50 contour.....
  - 100 contour.....

SHEET INDEX

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SHANE RESOURCES LIMITED  
WEST RED LAKE PROPERTY  
RED LAKE AREA ONTARIO

VLF EM SURVEY - Tx NLK  
FILTERED VLF VALUES & CONTOURS

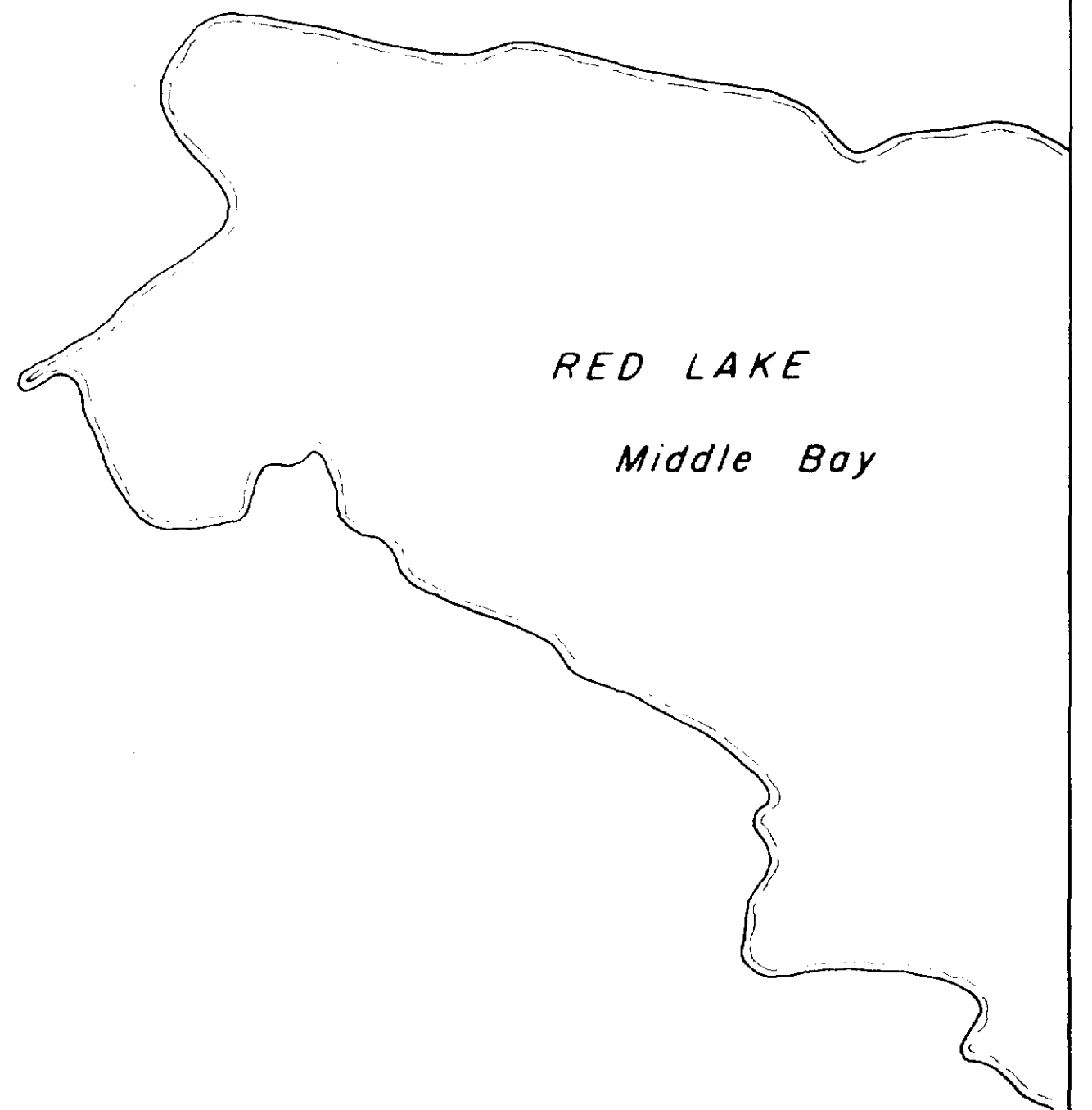
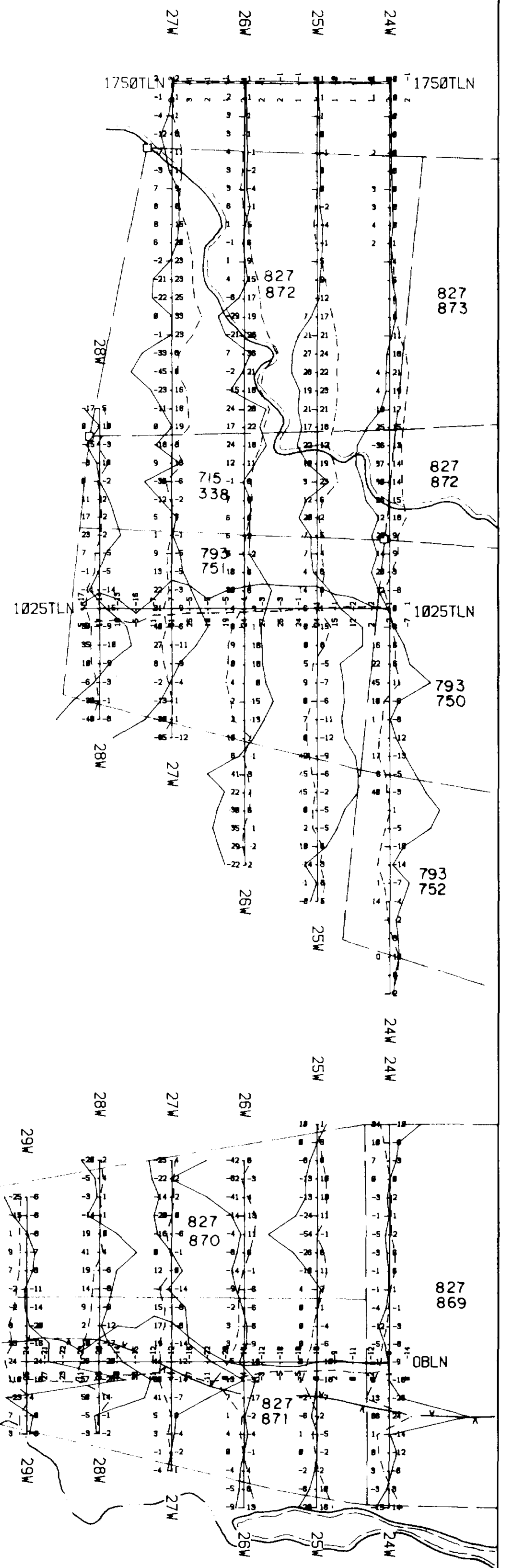


WALKER EXPLORATION LTD.  
Mississauga Ontario  
APRIL 1987

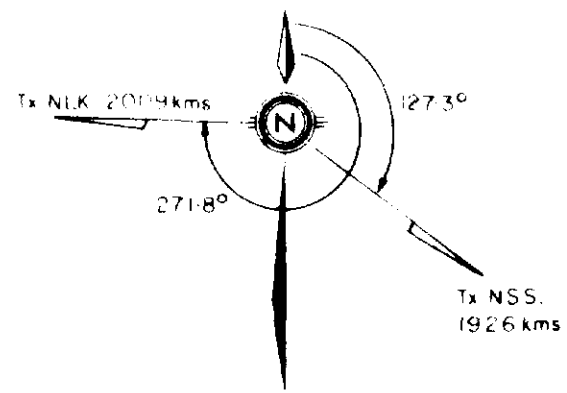
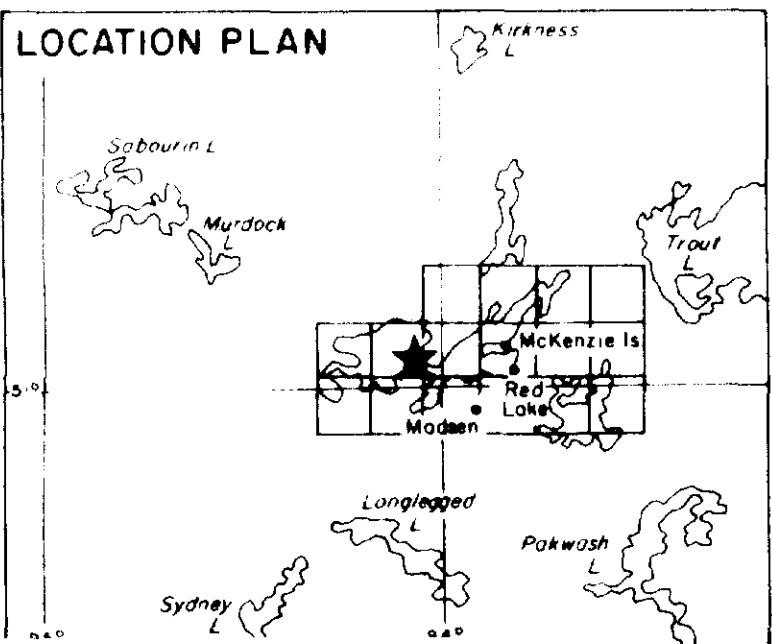
DWG. 1 B



RED LAKE



210175



NTS 52 - M - 1

- LEGEND
- Stream-Swamp, Lakeshore.....
  - Claim Post and Line.....
  - Instrument..... Geonics EM-16
  - Transmitter...NSS, Annapolis, Maryland, 24.8 kHz
  - Readings taken facing South, plotted IP | OP
  - Profile Scale = 40 % / cm.....
  - Inphase Profile.....
  - Quadrature Profile.....

SHEET INDEX

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SHANE RESOURCES LIMITED  
 WEST RED LAKE PROPERTY  
 RED LAKE AREA ONTARIO  
 VLF EM SURVEY - Tx NSS  
 VLF EM VALUES & PROFILES

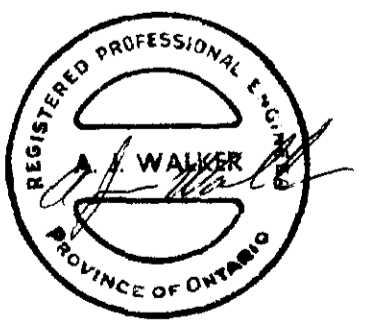
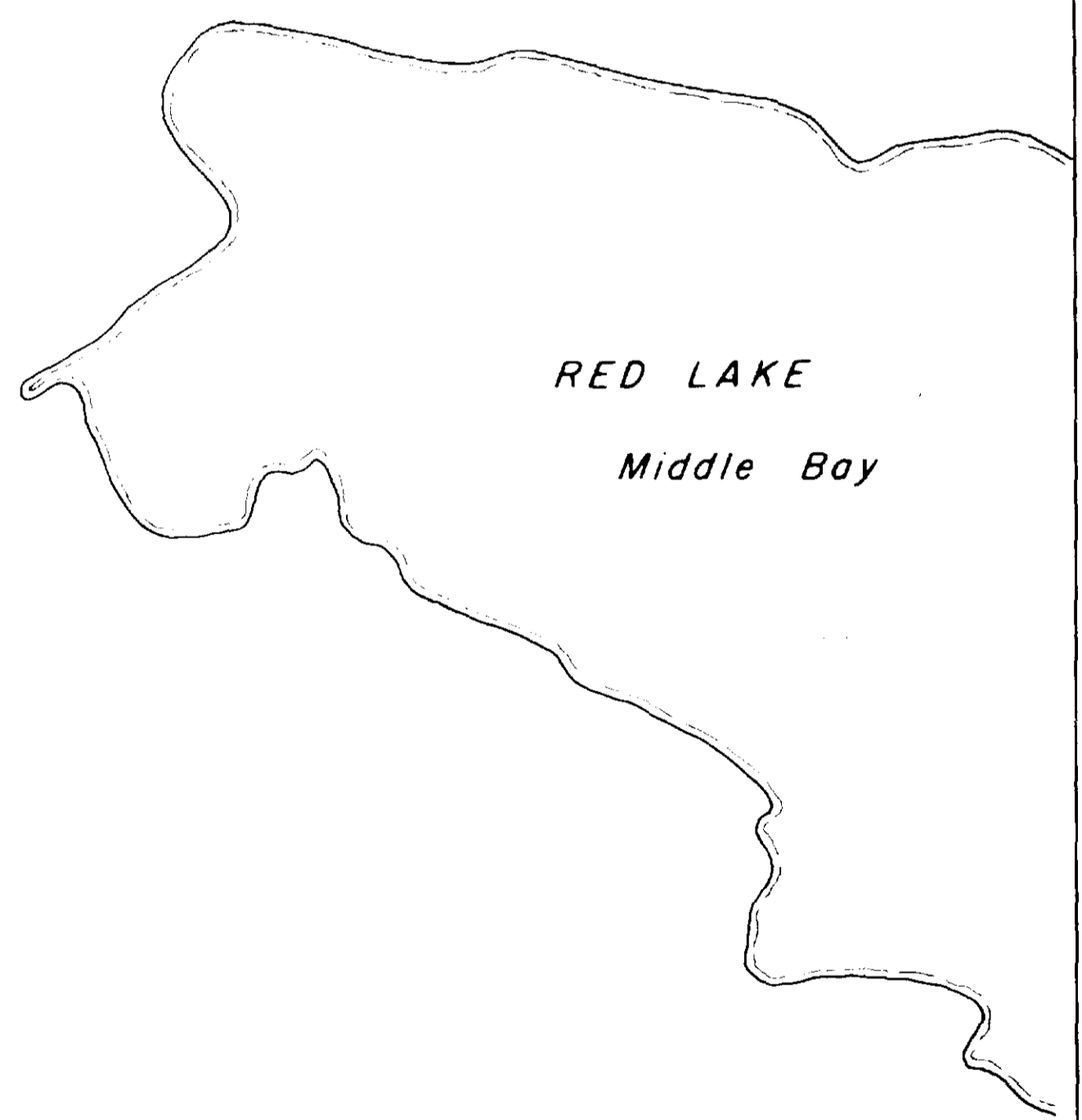
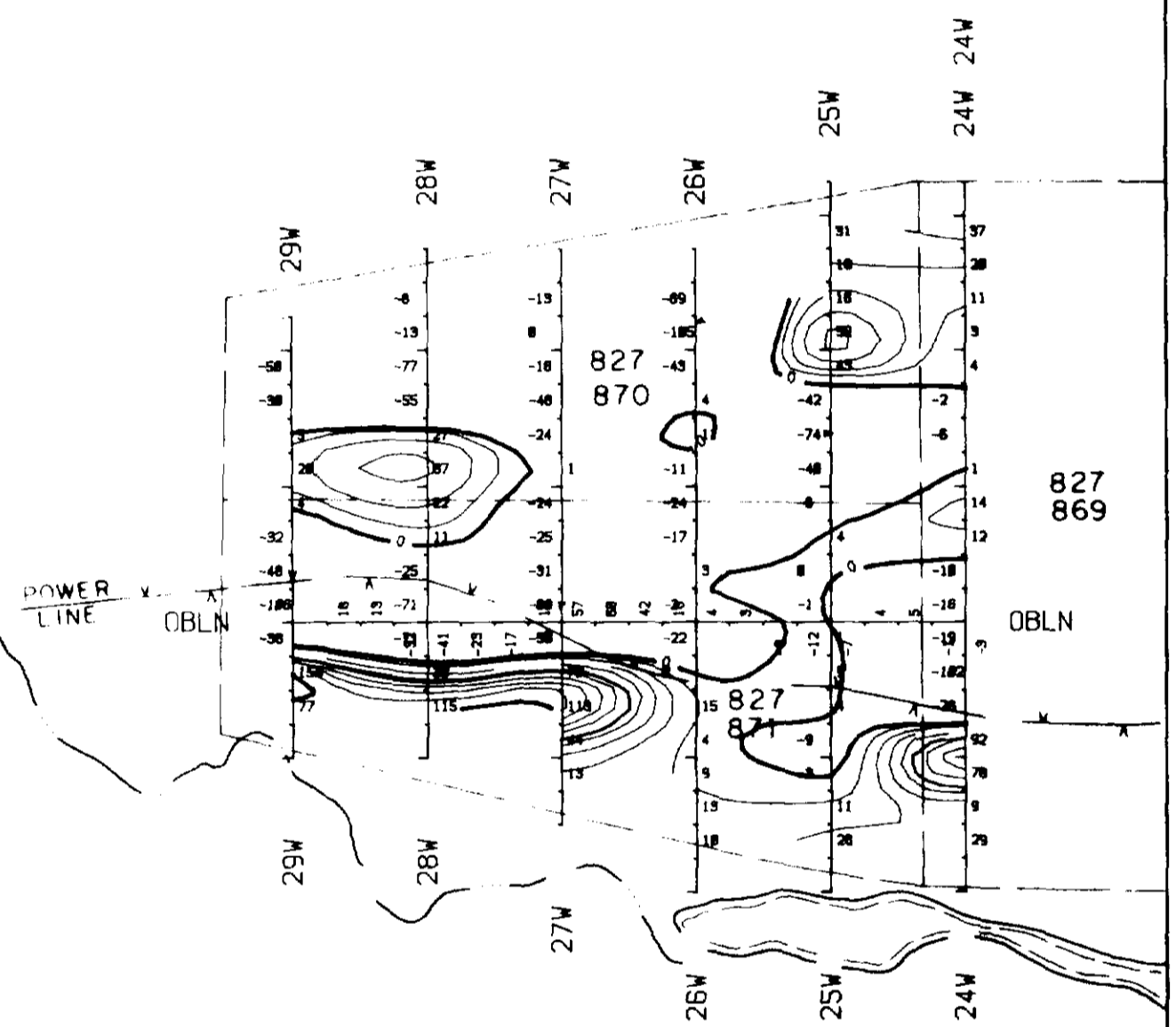
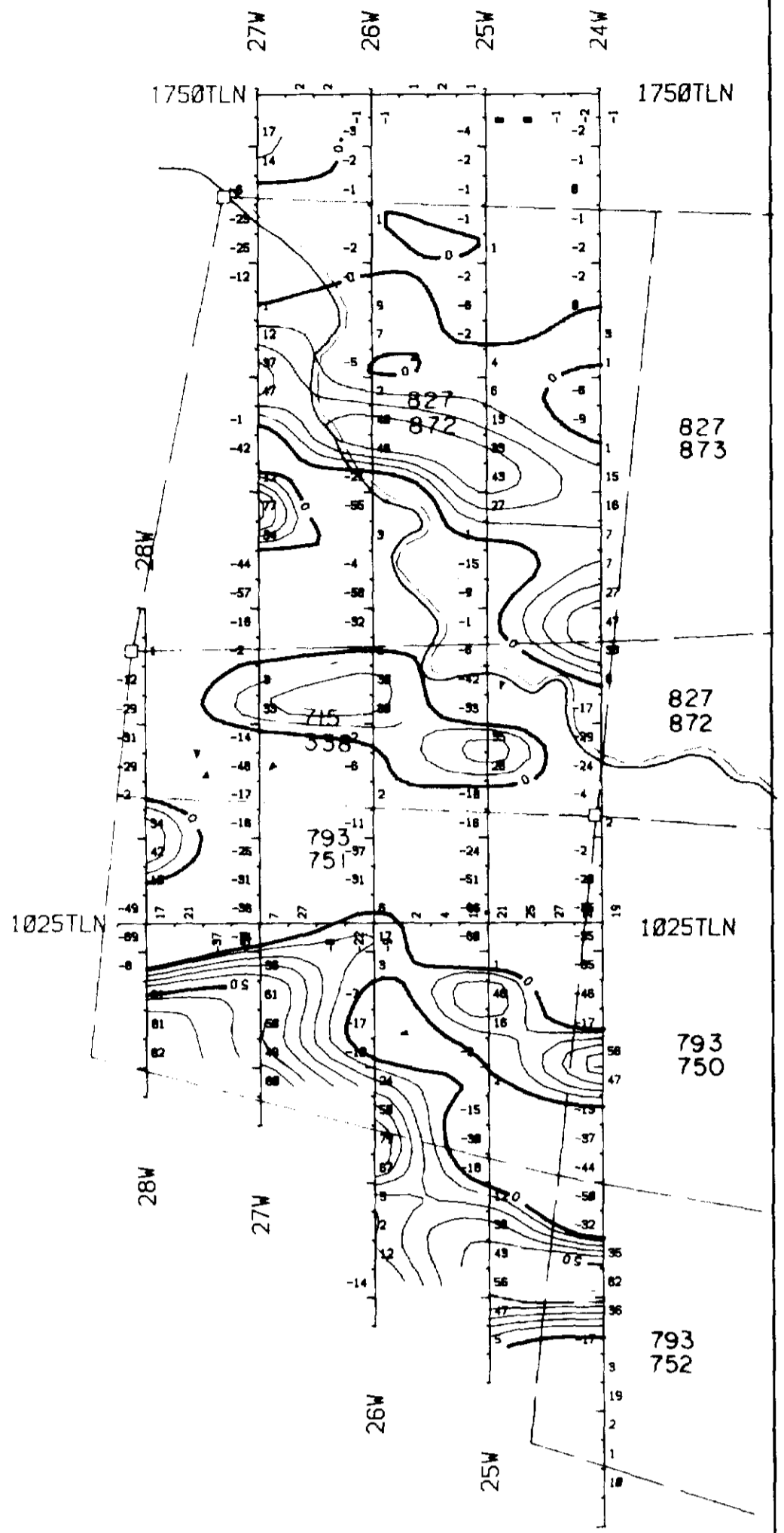
0 100 200 300 meters  
 Scale 1 : 5000

WALKER EXPLORATION LTD.  
 Mississauga Ontario,  
 April 1987

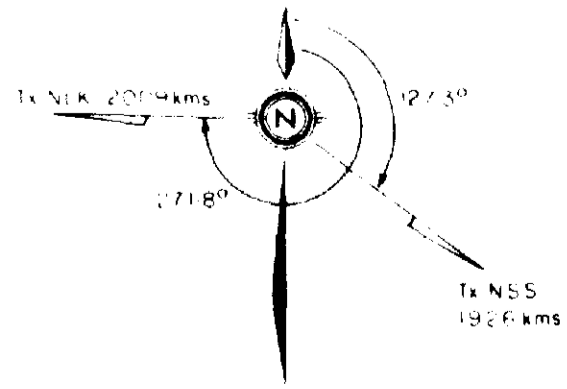
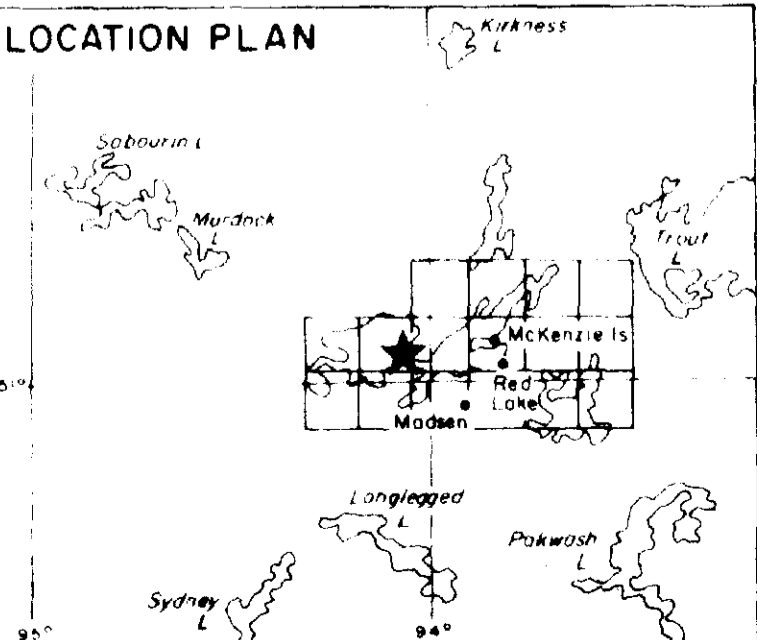
DWG. I C



RED LAKE



210175



- LEGEND
- Stream, Swamp, Lakeshore.....
  - Claim Post and line.....
  - Instrument..... Geonics EM-16
  - Transmitter...NSS, Annapolis, Maryland, 24.8 kHz
  - Contours of Filtered VLF Inphase... 10 interval
  - 10 contour.....
  - 50 contour.....
  - 100 contour.....

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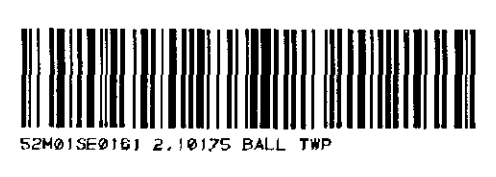
SHANE RESOURCES LIMITED  
 WEST RED LAKE PROPERTY  
 RED LAKE AREA ONTARIO  
 VLF EM SURVEY - T<sub>x</sub> NSS  
 FILTERED VLF VALUES & CONTOURS

0 100 200 300 meters  
 Scale 1 : 5000

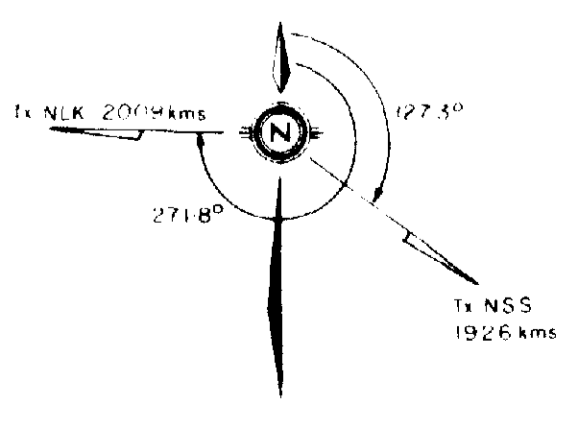
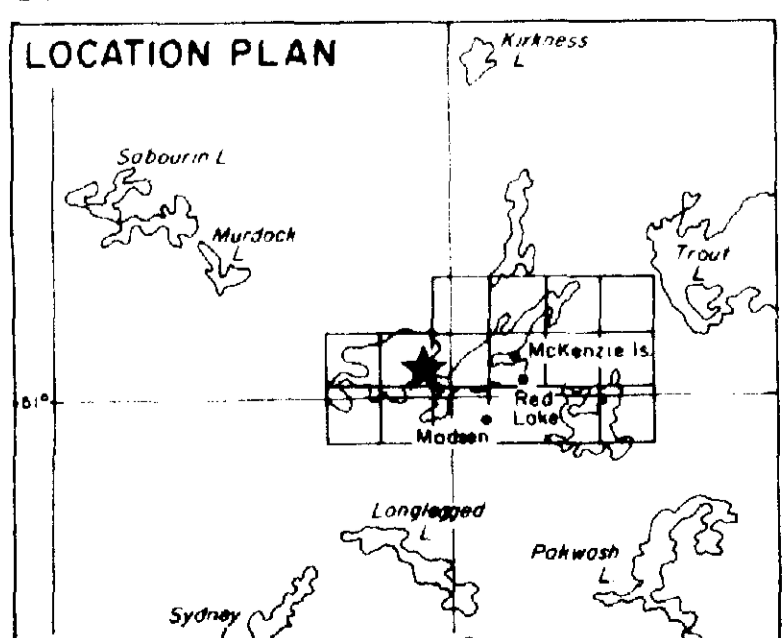
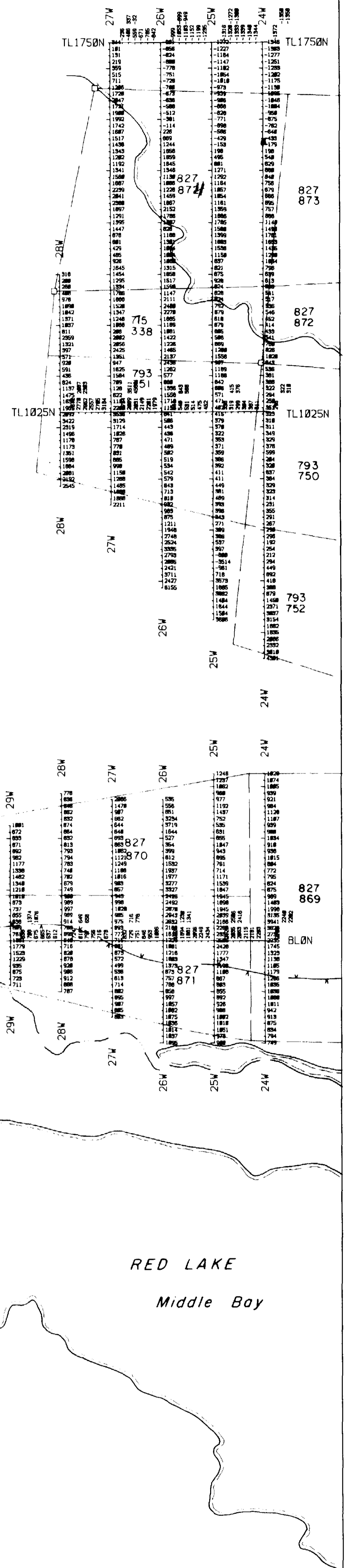
WALKER EXPLORATION LTD.  
 Mississauga, Ontario  
 April 1987

NTS S2 - M - 1

DWG. 1.0



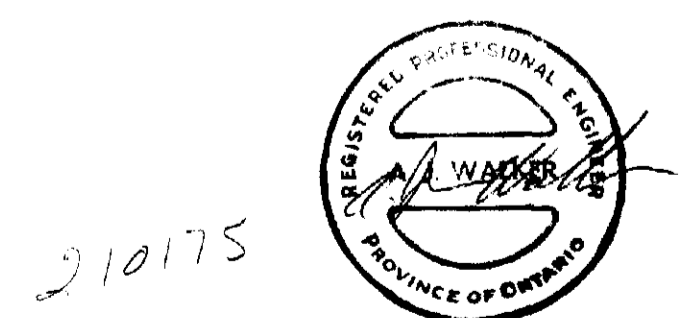
RED LAKE



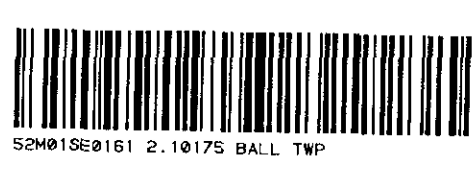
- LEGEND
- Stream/Swamp/Lakeshore.....
  - Claim Post and line.....
  - Instrument..... EDA PPM-500
  - Base Station..... EDA PPM-400
  - Base level..... 59000 nt

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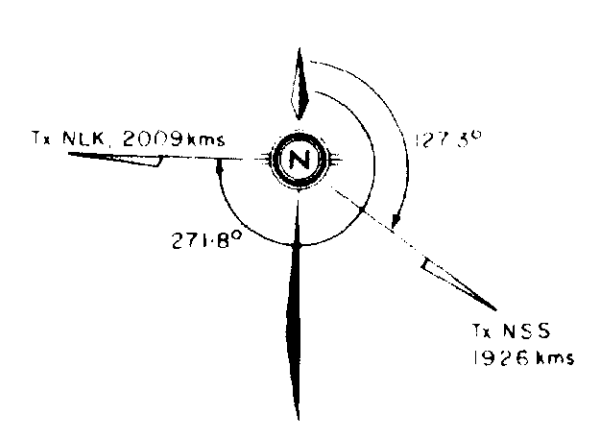
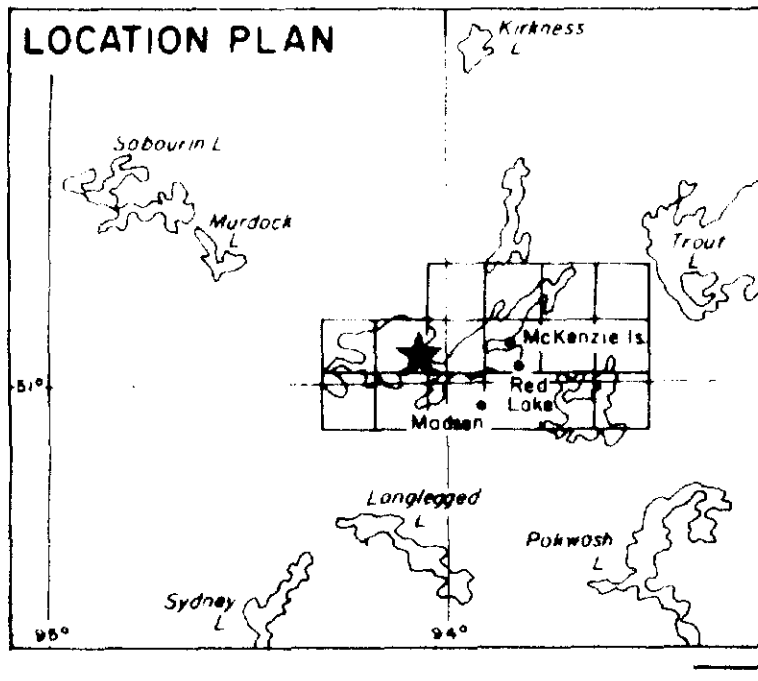
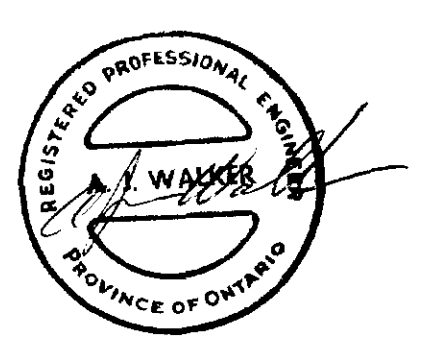
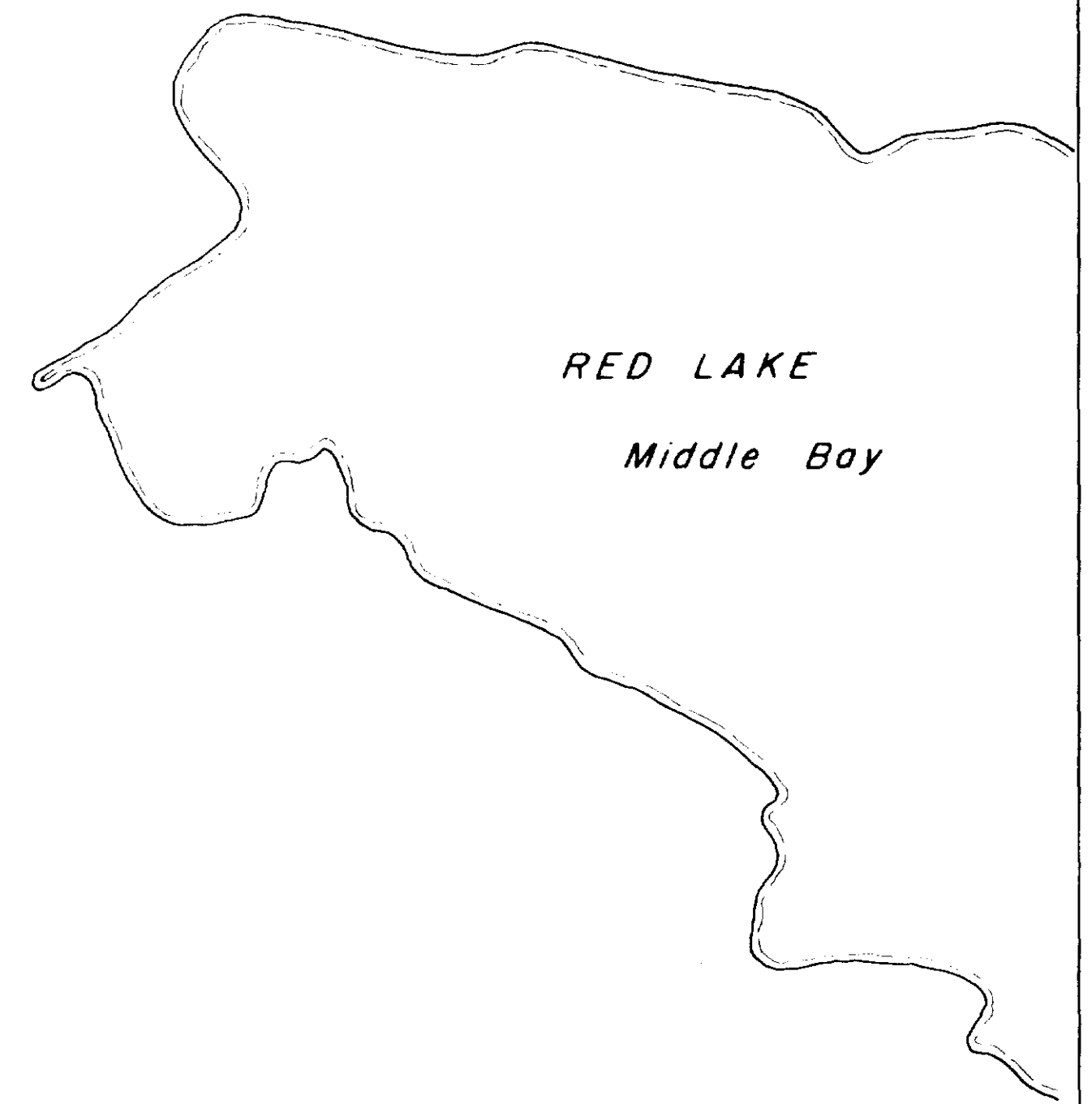
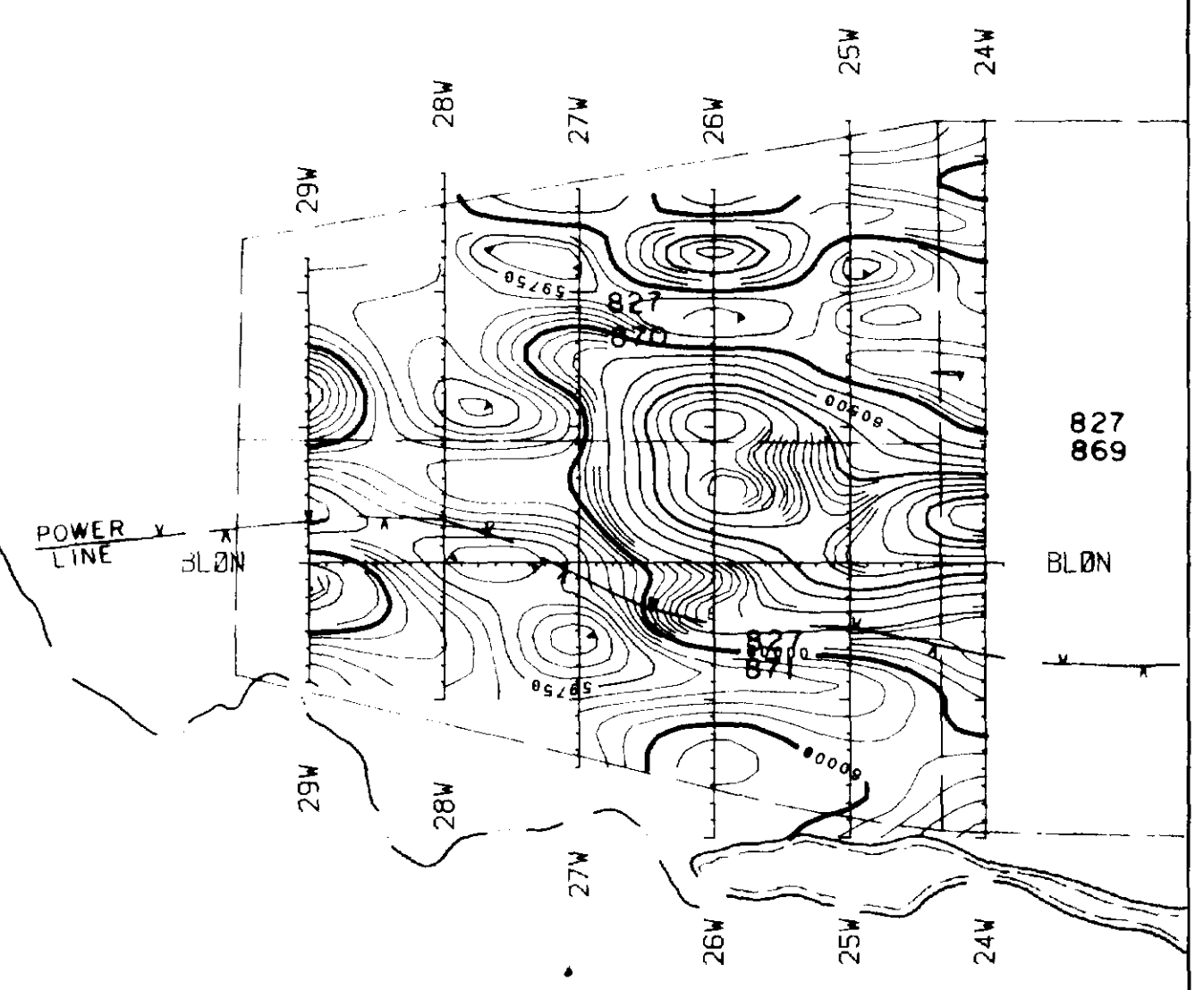
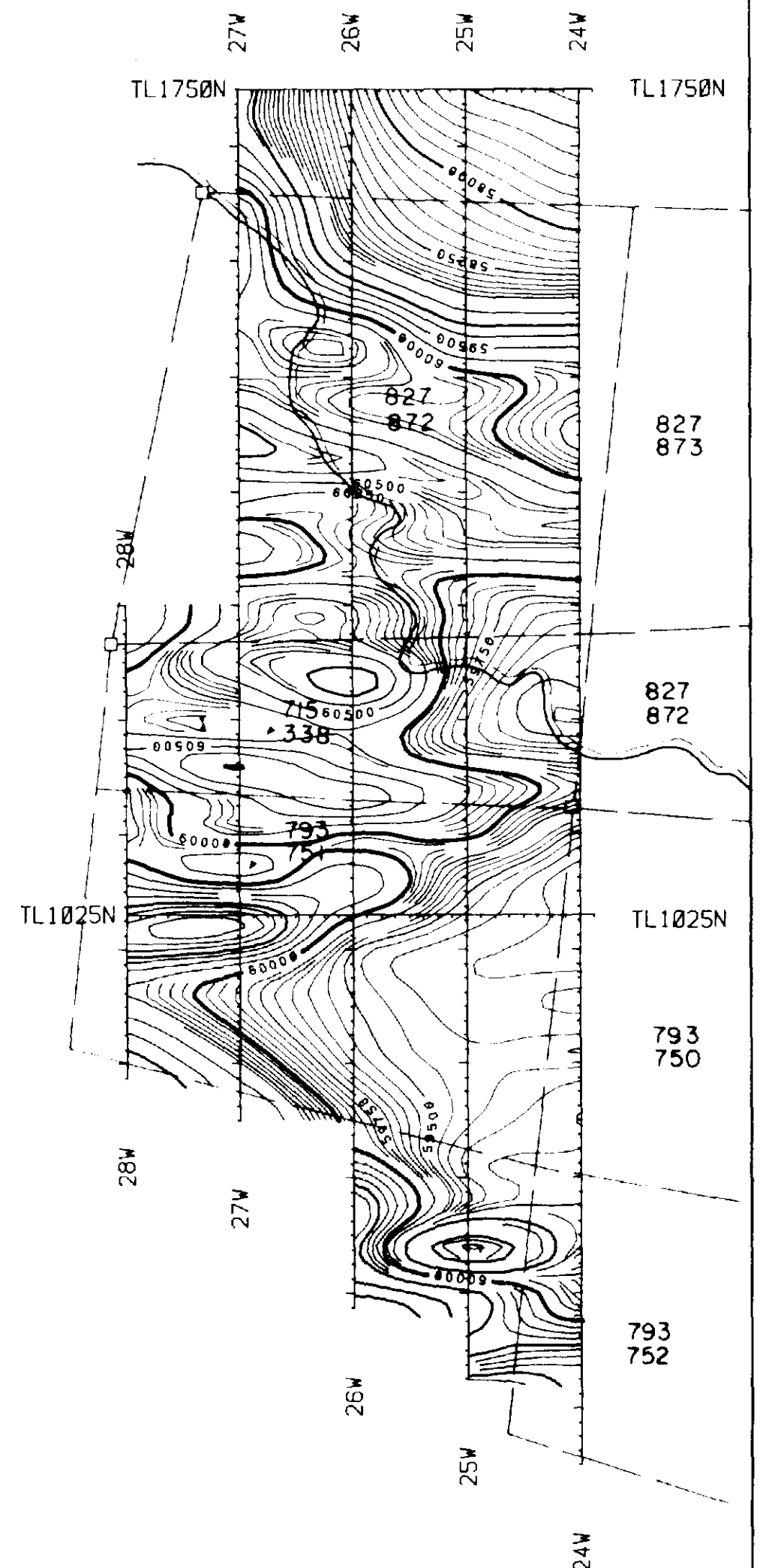


SHANE RESOURCES LIMITED  
 WEST RED LAKE PROPERTY  
 RED LAKE AREA ONTARIO  
 MAGNETOMETER SURVEY  
 TOTAL FIELD VALUES  
 Scale 1 : 5000  
 WALKER EXPLORATION LTD.  
 Mississauga Ontario  
 March 1987





RED LAKE



LEGEND

- Stream, Swamp, Lakeshore.....
- Claim Post and line.....
- Instrument..... EDR PPM-500
- Base Station..... EDR PPM-400
- Contours of Vertical Field..... 50m Interval
- 50m contour.....
- 250m contour.....
- 1000m contour.....
- 5000m contour.....

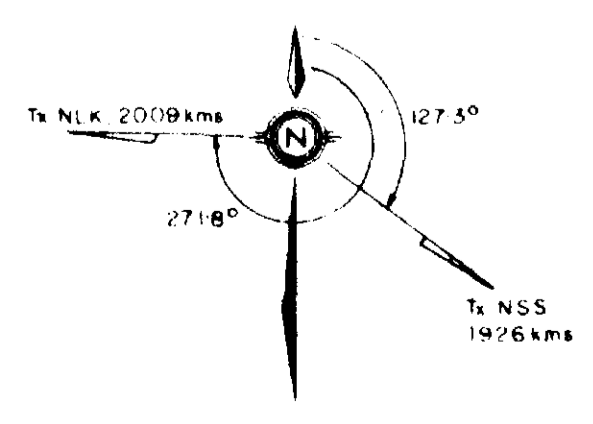
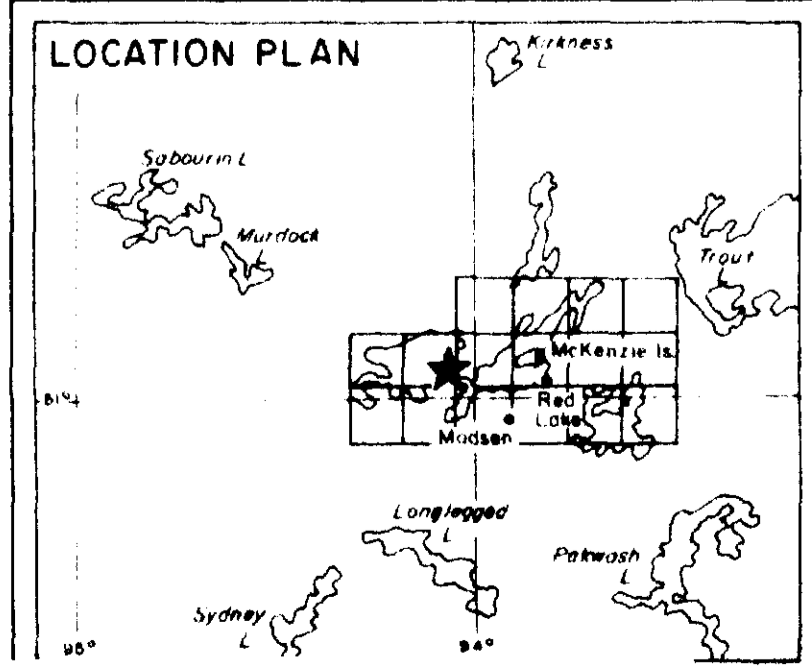
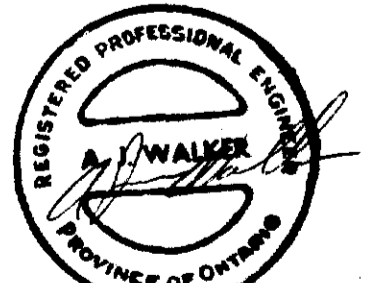
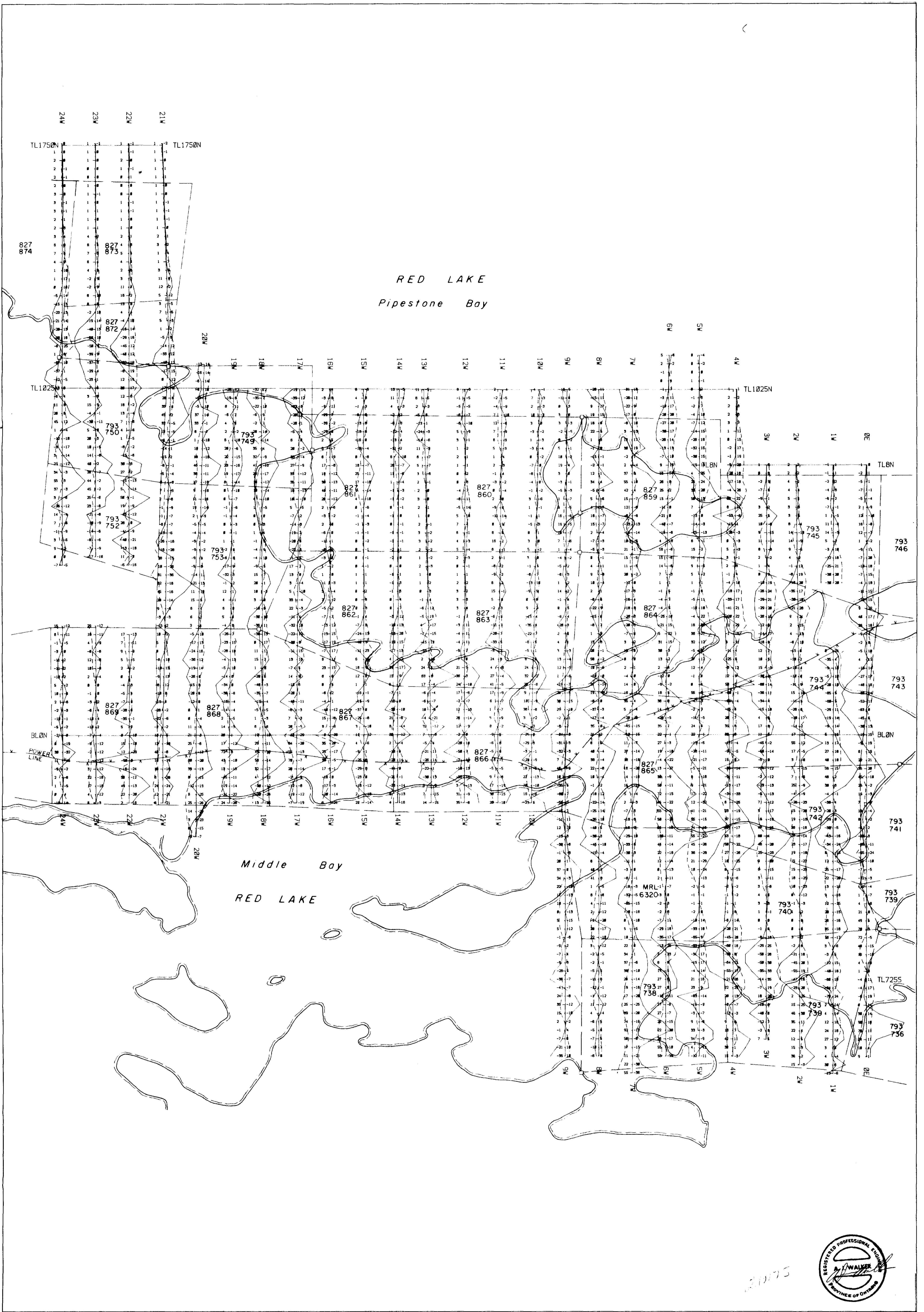
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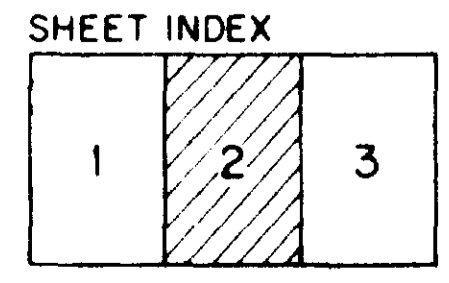
SHANE RESOURCES LIMITED  
 WEST RED LAKE PROPERTY  
 RED LAKE AREA ONTARIO  
 MAGNETOMETER SURVEY  
 TOTAL FIELD CONTOURS

Scale 1 : 5000

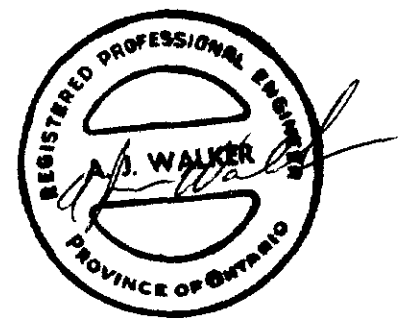
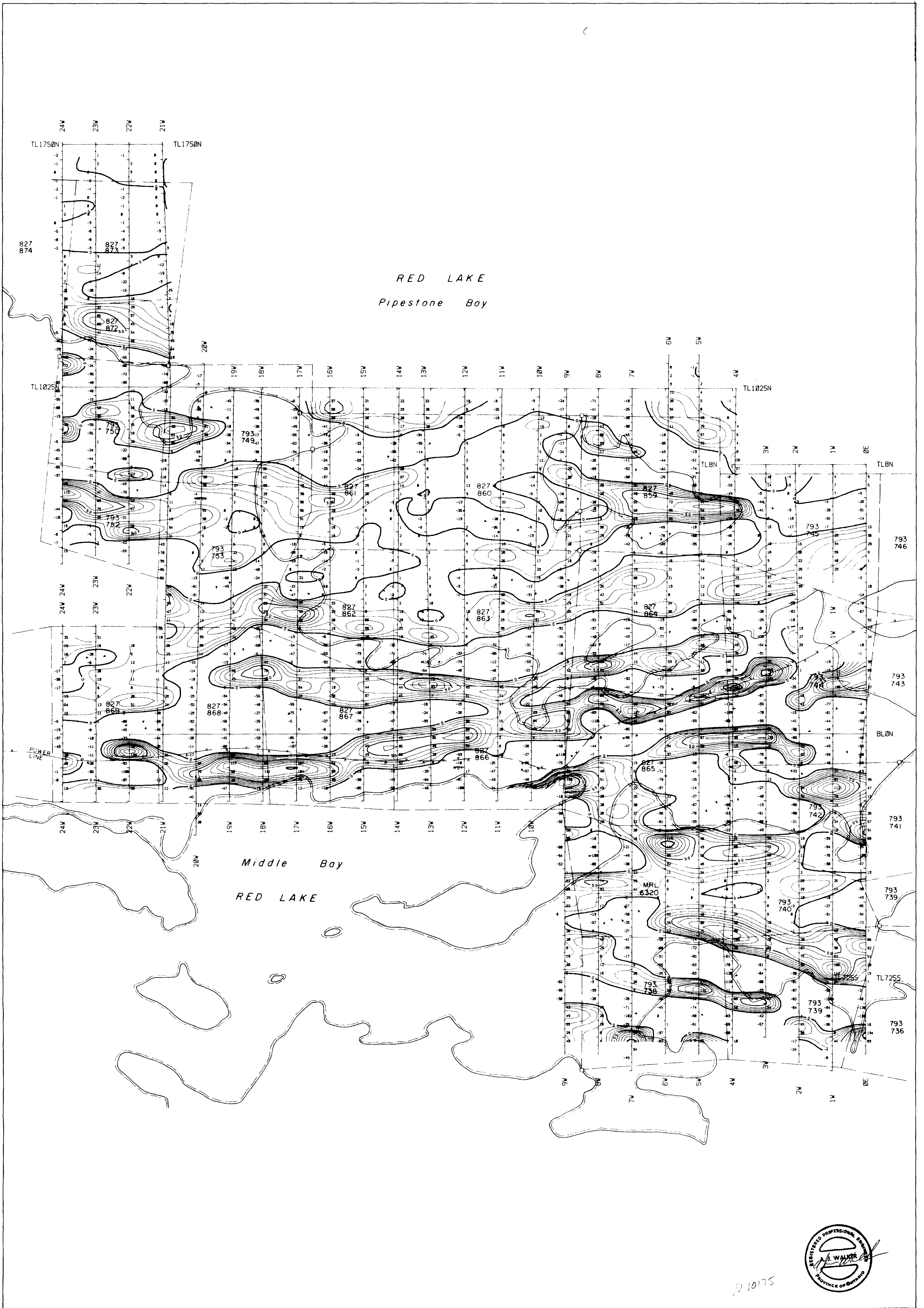
WALKER EXPLORATION LTD.  
 Mississauga Ontario,  
 March 1987



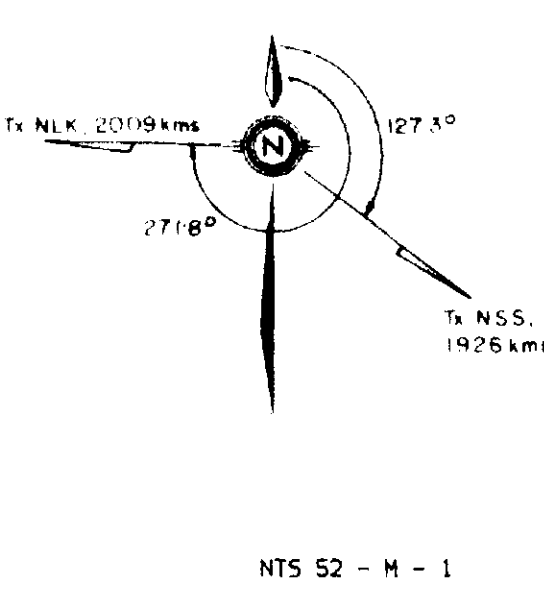
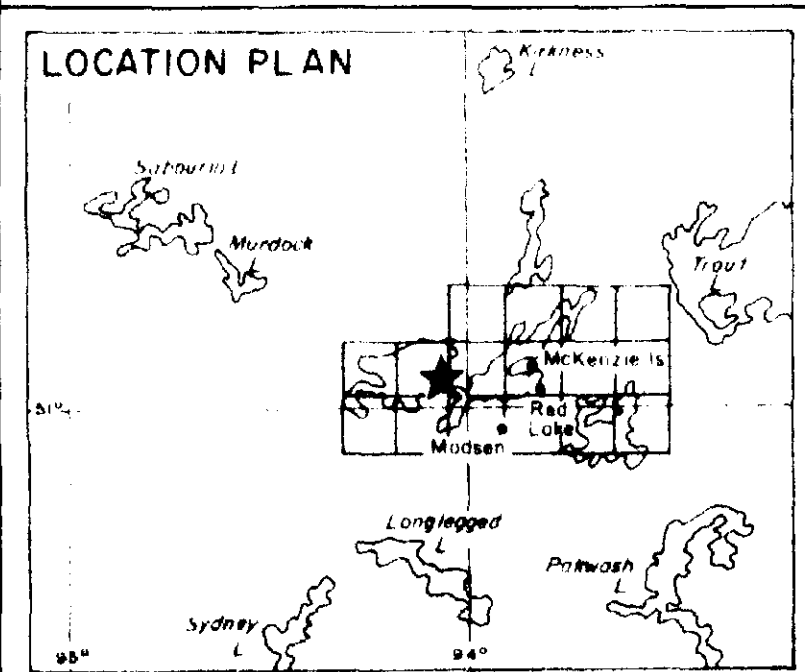
- LEGEND
- Stream/Swamp/Lakeshore.....
  - Claim Post and line.....
  - Instrument..... Geonics EM-15
  - Transmitter..... NLK, Seattle, Wash., 24.8 kHz
  - Readings taken facing South, plotted IP | OP
  - Profile. Scale = 40 %/cm.....
  - Inphase Profile.....
  - Quadrature Profile.....



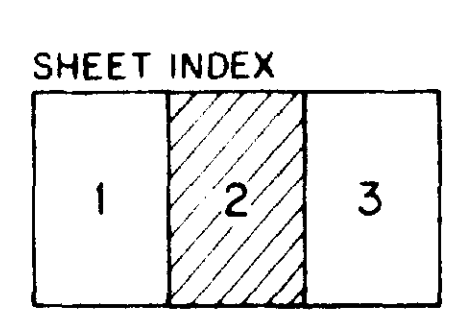
SHANE RESOURCES LIMITED  
 WEST RED LAKE PROPERTY  
 RED LAKE AREA ONTARIO  
 VLF EM SURVEY - Tx NLK  
 VLF EM VALUES & PROFILES  
 Scale 1 : 5000  
 WALKER EXPLORATION LTD.  
 Mississauga Ontario.  
 APRIL 1987  
 DWG. 2



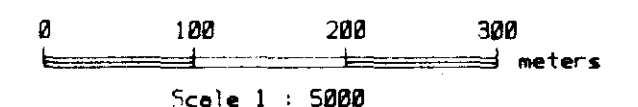
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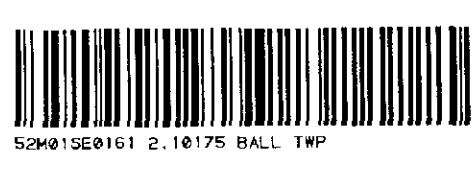
- LEGEND
- Stream, Swamp, Lakeshore.....
  - Claim Post and line.....
  - Instrument..... Geonics EM-16
  - Transmitter..... NLK, Seattle, Wash., 24.8 kHz
  - Contours of Filtered VLF Inphase... 10 Interval
  - 10 contour.....
  - 50 contour.....
  - 100 contour.....

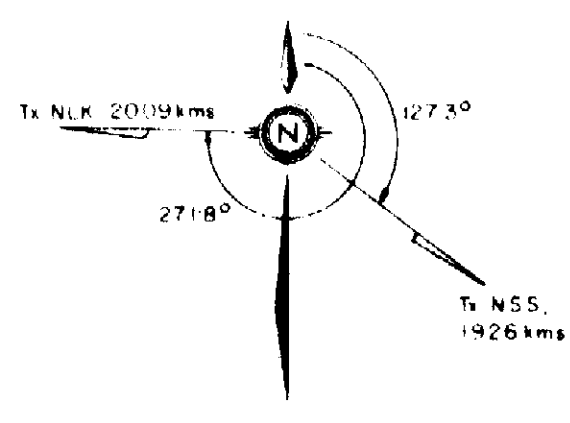
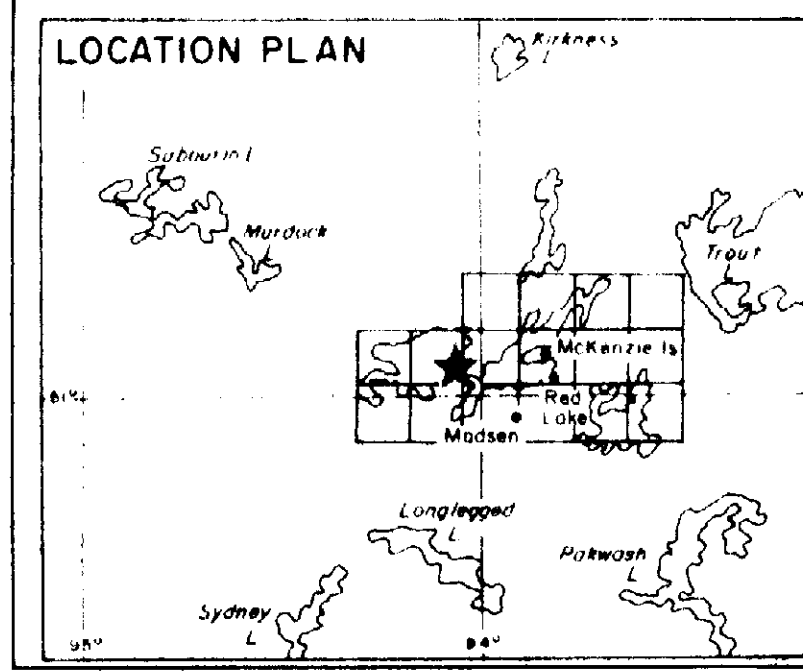
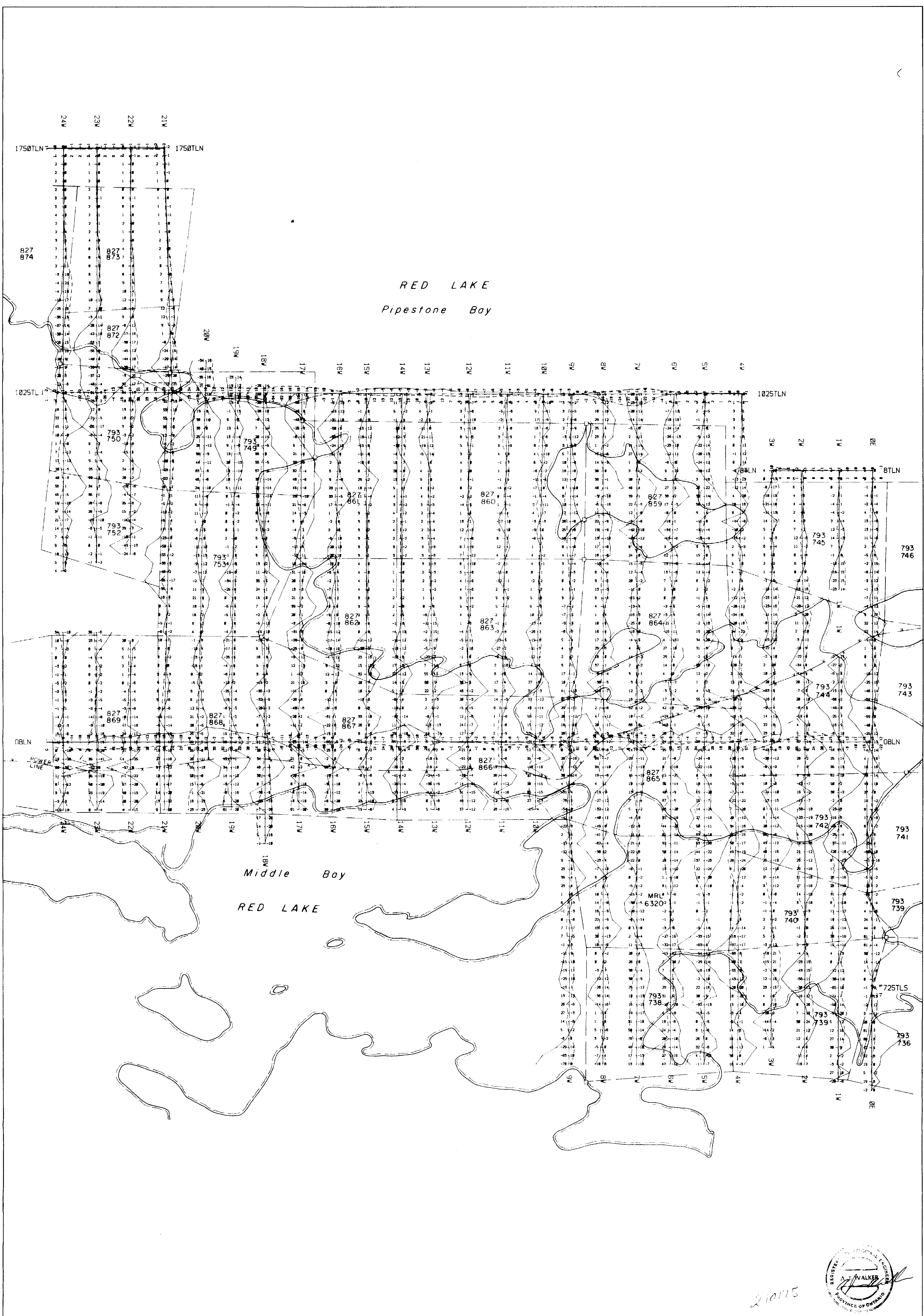


SHANE RESOURCES LIMITED  
 WEST RED LAKE PROPERTY  
 RED LAKE AREA ONTARIO  
 VLF EM SURVEY - TX NLK  
 FILTERED VLF VALUES & CONTOURS

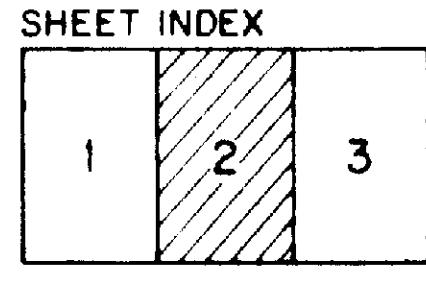


WALKER EXPLORATION LTD.  
 Mississauga Ontario,  
 APRIL 1987  
 DWG. 2 B



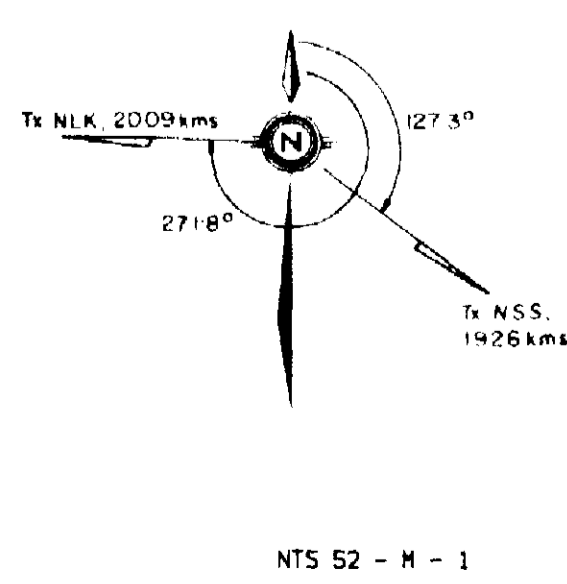
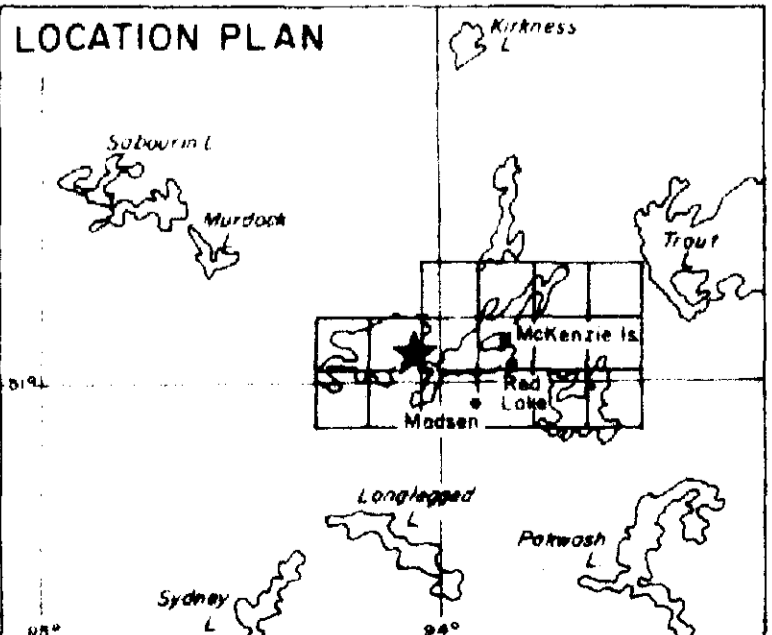
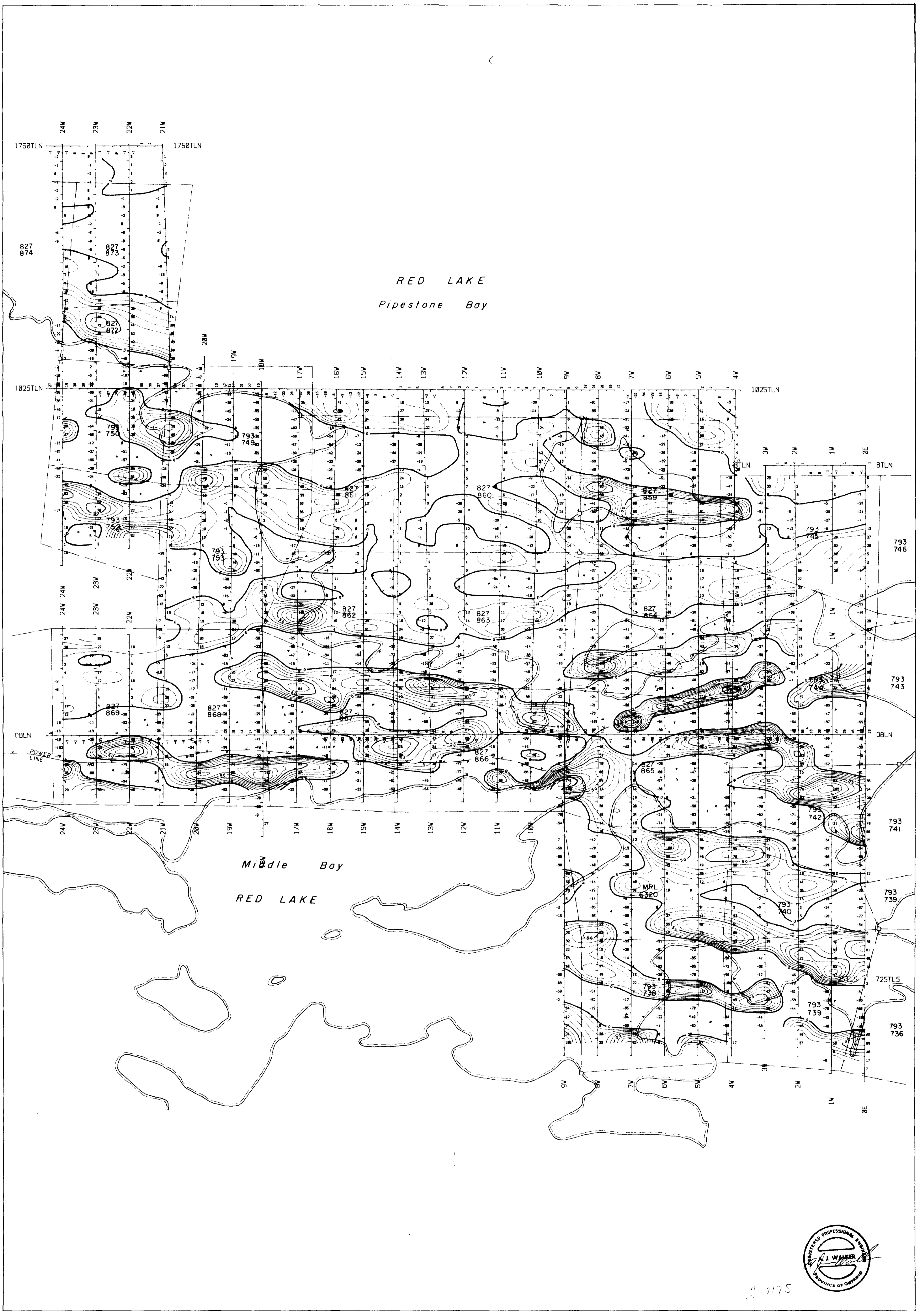


- LEGEND
- Stream, Swamp, Lakeshore.....
  - Claim Post and line.....
  - Instrument..... Geonics EM-15
  - Transmitter...NSS, Annapolis, Maryland, 24.8 kHz
  - Readings taken facing South, plotted IP|QP
  - Profile, Scale = 40 % /cm.....
  - Inphase Profile.....
  - Quadrature Profile.....

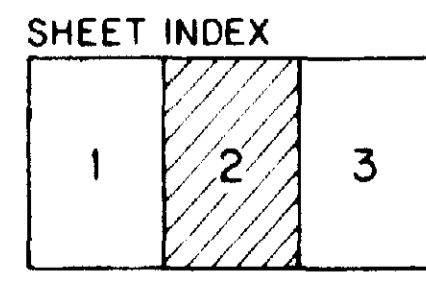


210115

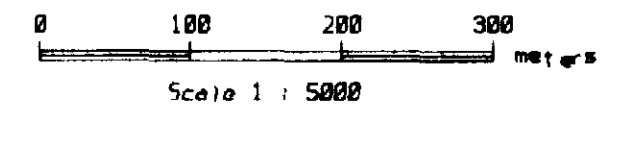
SHANE RESOURCES LIMITED  
 WEST RED LAKE PROPERTY  
 RED LAKE AREA ONTARIO  
 VLF EM SURVEY - Tx NSS  
 VLF EM VALUES & PROFILES  
 Scale 1 : 5000  
 WALKER EXPLORATION LTD.  
 Mississauga Ontario,  
 April 1987  
 DWG. 2 C



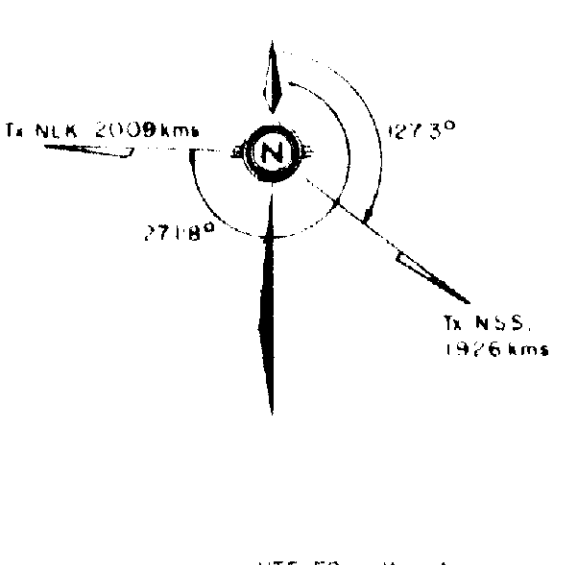
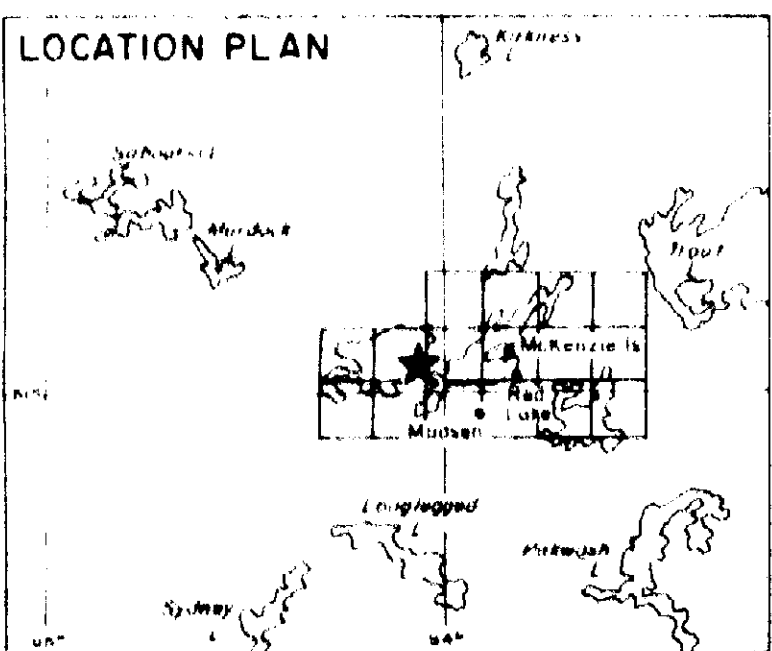
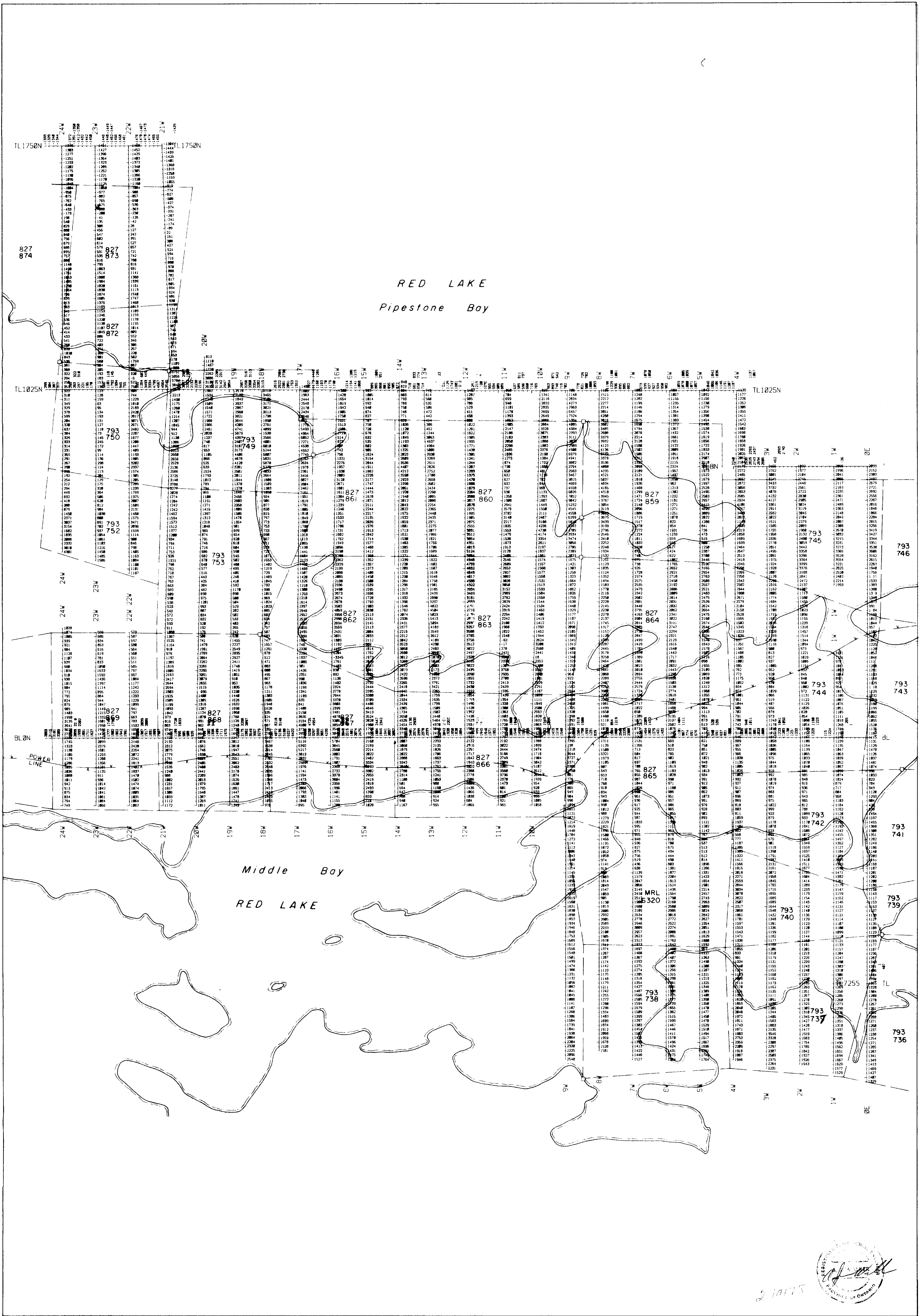
- LEGEND
- Stream/Swamp/Lakeshore.....
  - Claim Post and line.....
  - Instrument..... Geonics EM-16
  - Transmitter...NSS, Annapolis, Maryland, 24.8 kHz
  - Contours of Filtered VLF Inphase... 10 Interval
  - 10 contour.....
  - 50 contour.....
  - 100 contour.....



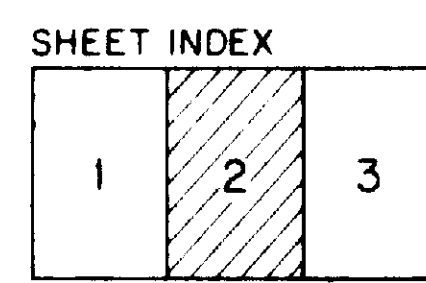
SHANE RESOURCES LIMITED  
 WEST RED LAKE PROPERTY  
 RED LAKE AREA ONTARIO  
 VLF EM SURVEY - Tx NSS  
 FILTERED VLF VALUES & CONTOURS



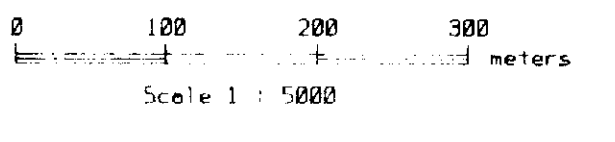
WALKER EXPLORATION LTD.  
 Mississauga Ontario,  
 April 1987  
 DWG. 2.0



- LEGEND
- Stream/Swamp/Lakeshore.....
  - Estate Post and Line.....
  - Instrument..... EDR PPM-500
  - Base Station..... LDA PPM-400
  - Base level..... 592000 mt

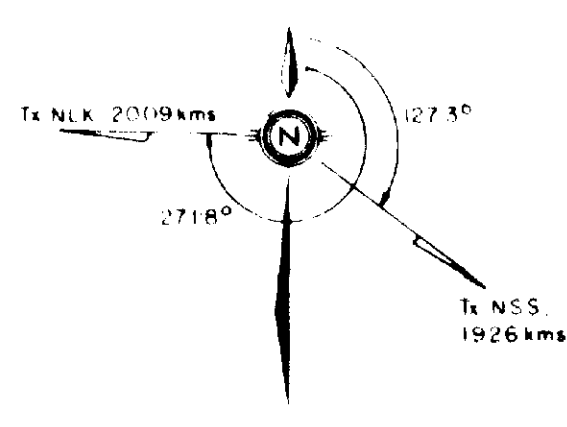
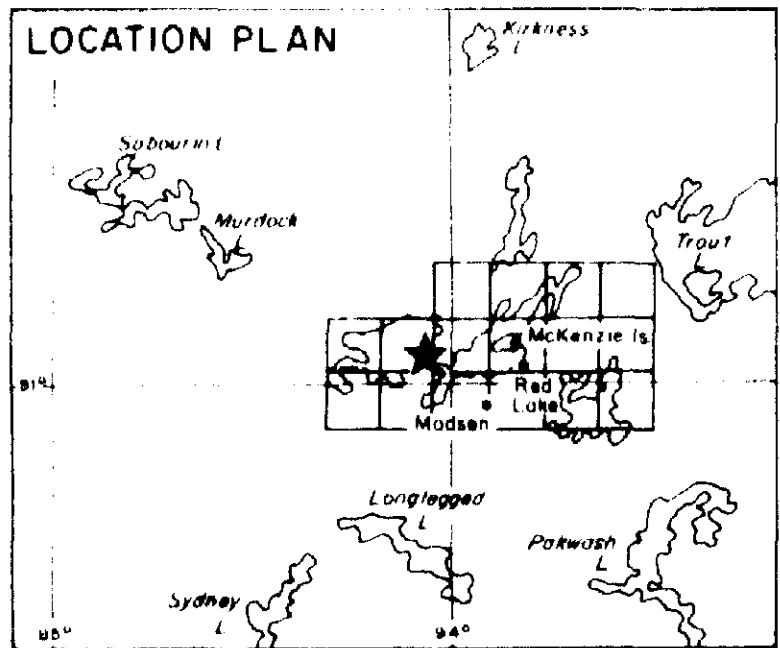
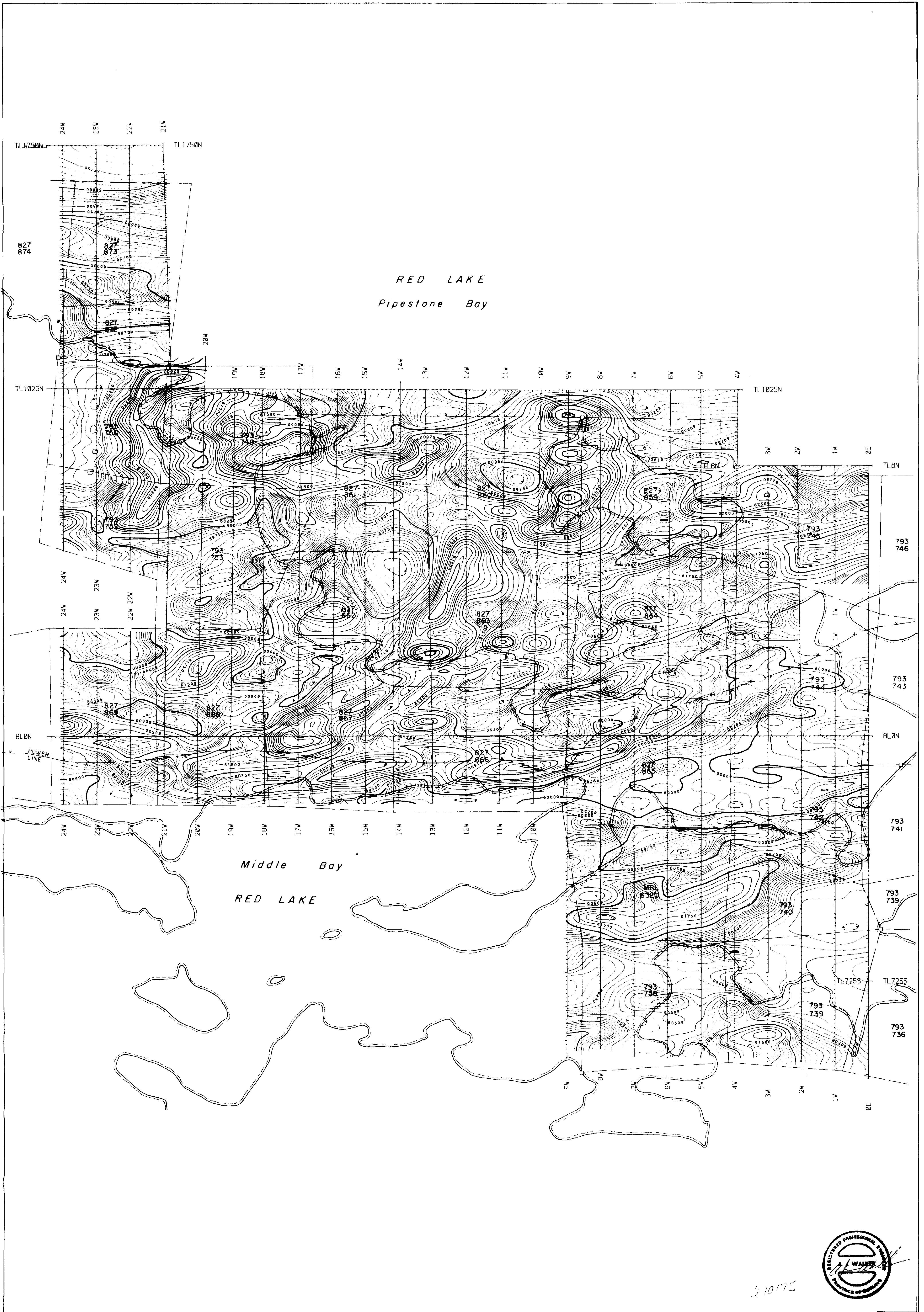


SHANE RESOURCES LIMITED  
 WEST RED LAKE PROPERTY  
 RED LAKE AREA ONTARIO  
 MAGNETOMETER SURVEY  
 TOTAL FIELD VALUES



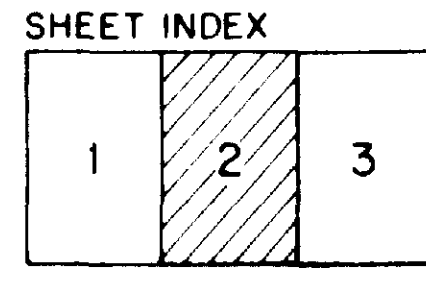
WALKER EXPLORATION LTD.  
 Mississauga Ontario.  
 March 1987  
 DRG. 2 E





LEGEND

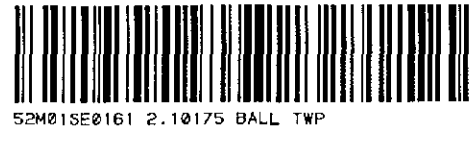
Stream, Swamp, Lakeshore.....	
Claim Post and line.....	
Instrument.....	EDR PPM-500
Base Station.....	EDR PPM-400
Contours of Total Field.....	50mt Interval
50mt contour.....	
25mt contour.....	
100mt contour.....	
500mt contour.....	

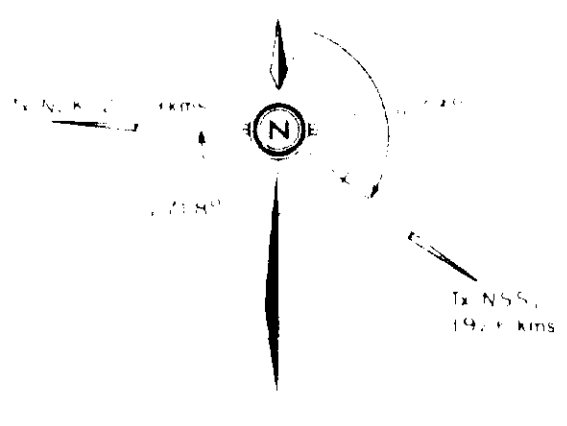
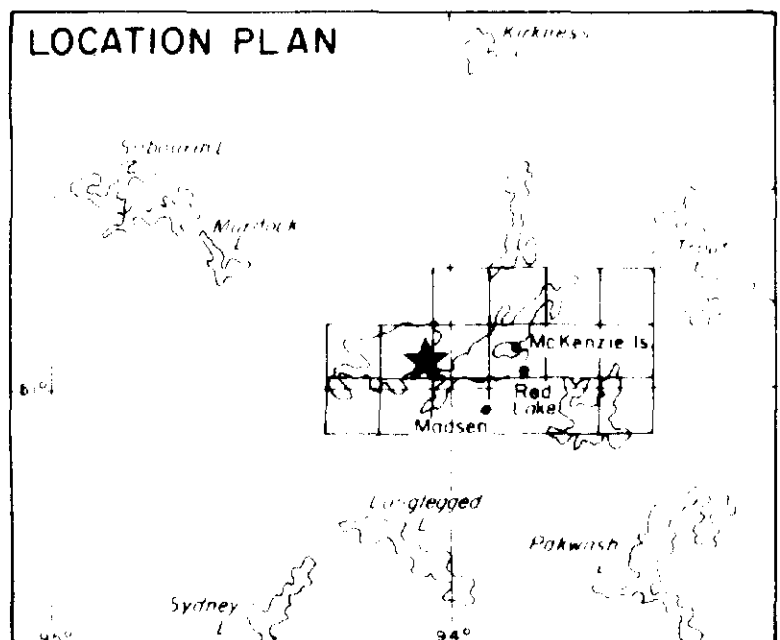
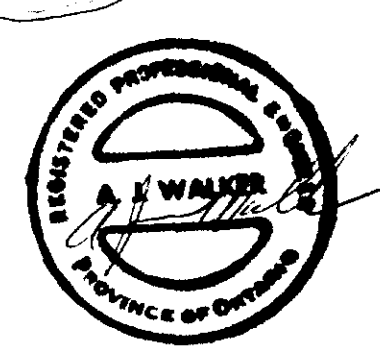
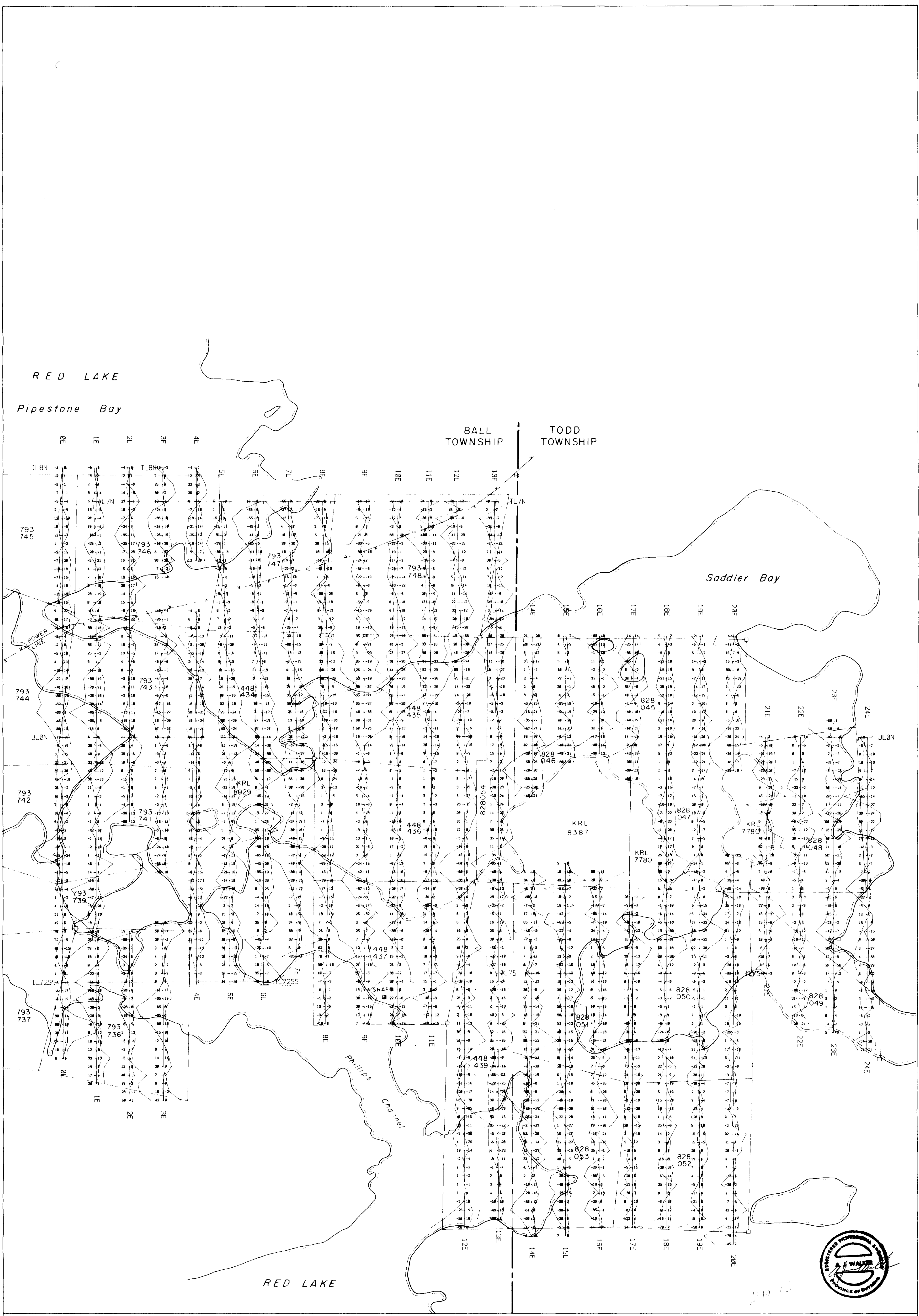


SHANE RESOURCES LIMITED  
 WEST RED LAKE PROPERTY  
 RED LAKE AREA ONTARIO  
 MAGNETOMETER SURVEY  
 TOTAL FIELD CONTOURS

Scale 1 : 5000

WALKER EXPLORATION LTD.  
 Mississauga Ontario.  
 March 1987



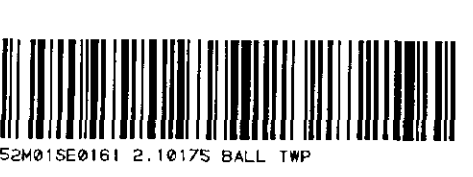


- LEGEND
- Stream, Swamp, Lakeshore.....
  - Claim Post and Line.....
  - Instrument..... Geonics EM-15
  - Transmitter..... NLK, Seattle, Wash., 24.8 kHz
  - Readings taken Facing South, plotted IP, OP
  - Profile, Scale = 40 X /cm.....
  - Inphase Profile.....
  - Quadrature Profile.....

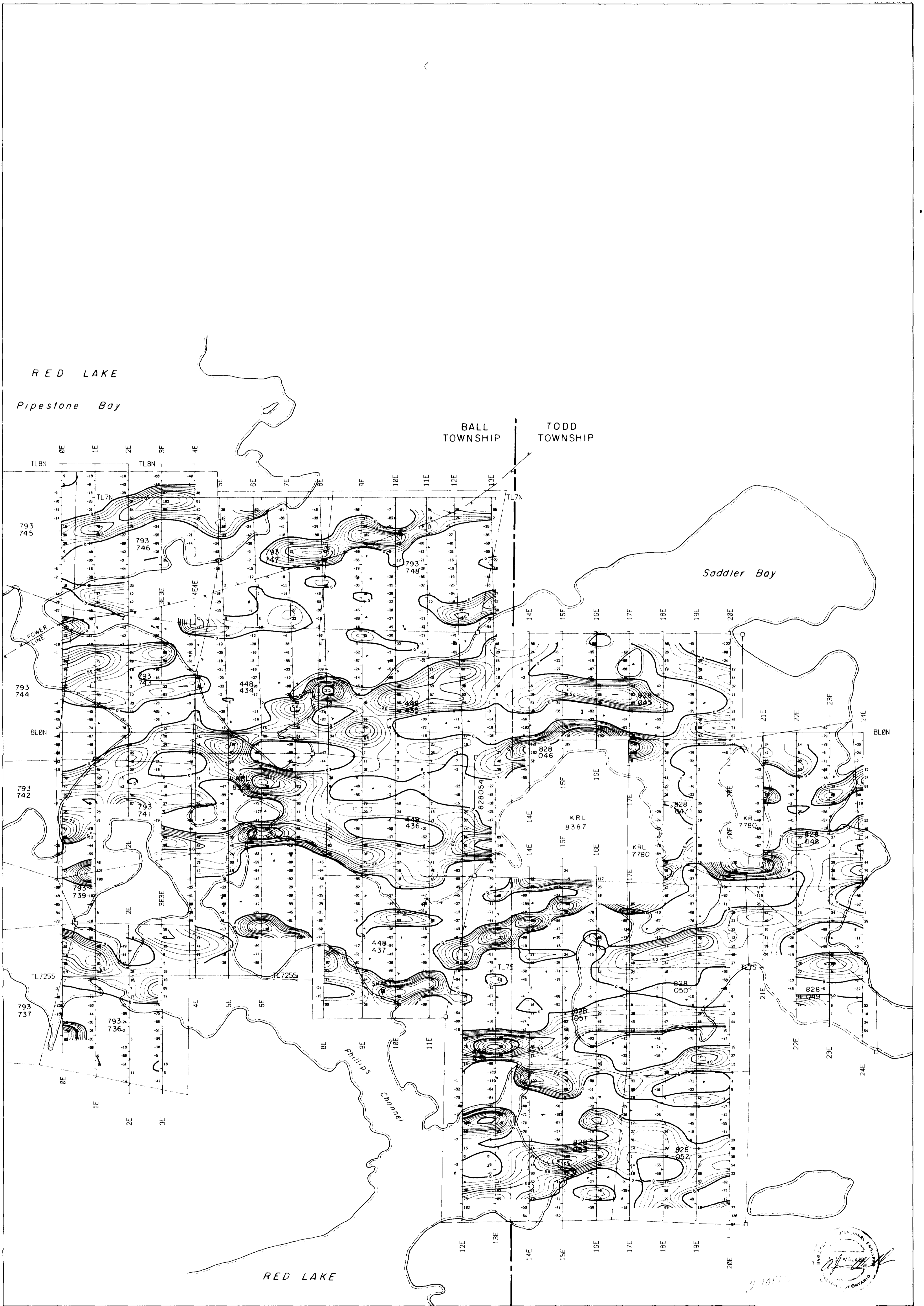
SHEET INDEX

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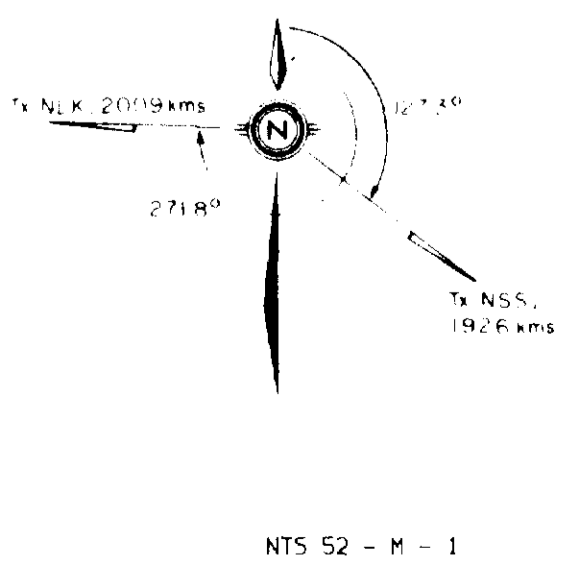
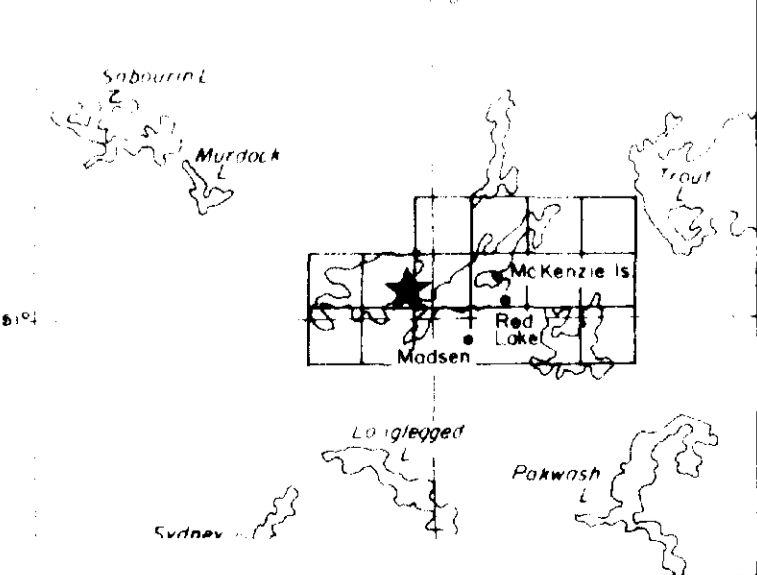
SHANE RESOURCES LIMITED  
 WEST RED LAKE PROPERTY  
 RED LAKE AREA ONTARIO  
 VLF EM SURVEY - Tx NLK  
 VLF EM VALUES & PROFILES  
 0 100 200 300  
 meters  
 Scale 1 : 5000  
 WALKER EXPLORATION LTD.  
 Mississauga, Ontario.  
 APRIL 1987







LOCATION PLAN



NTS S2 - M - 1

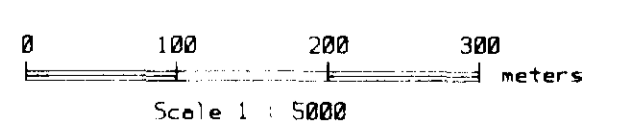
LEGEND

- Stream/Swamp/Lakeshore.....
- Claim Post and Line.....
- Instrument..... Geonics EM-16
- Transmitter..... NLK, Seattle, Wash., 24.8 kHz
- Contours of Filtered VLF Inphase... 10 Interval
- 10 contour.....
- 50 contour.....
- 100 contour.....

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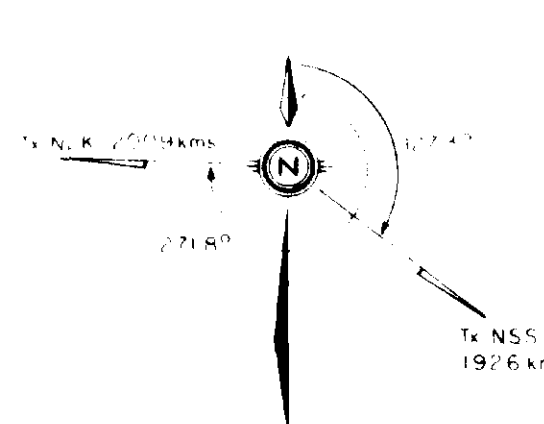
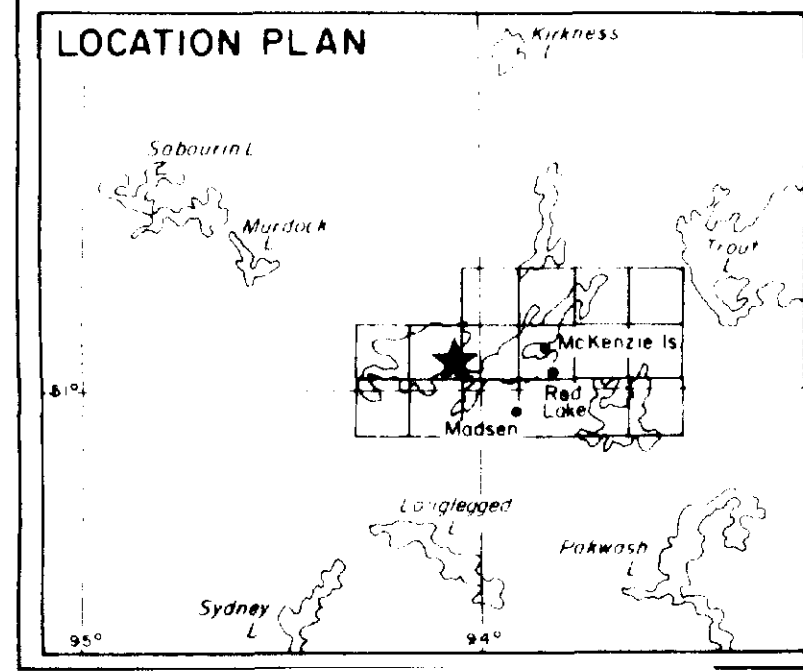
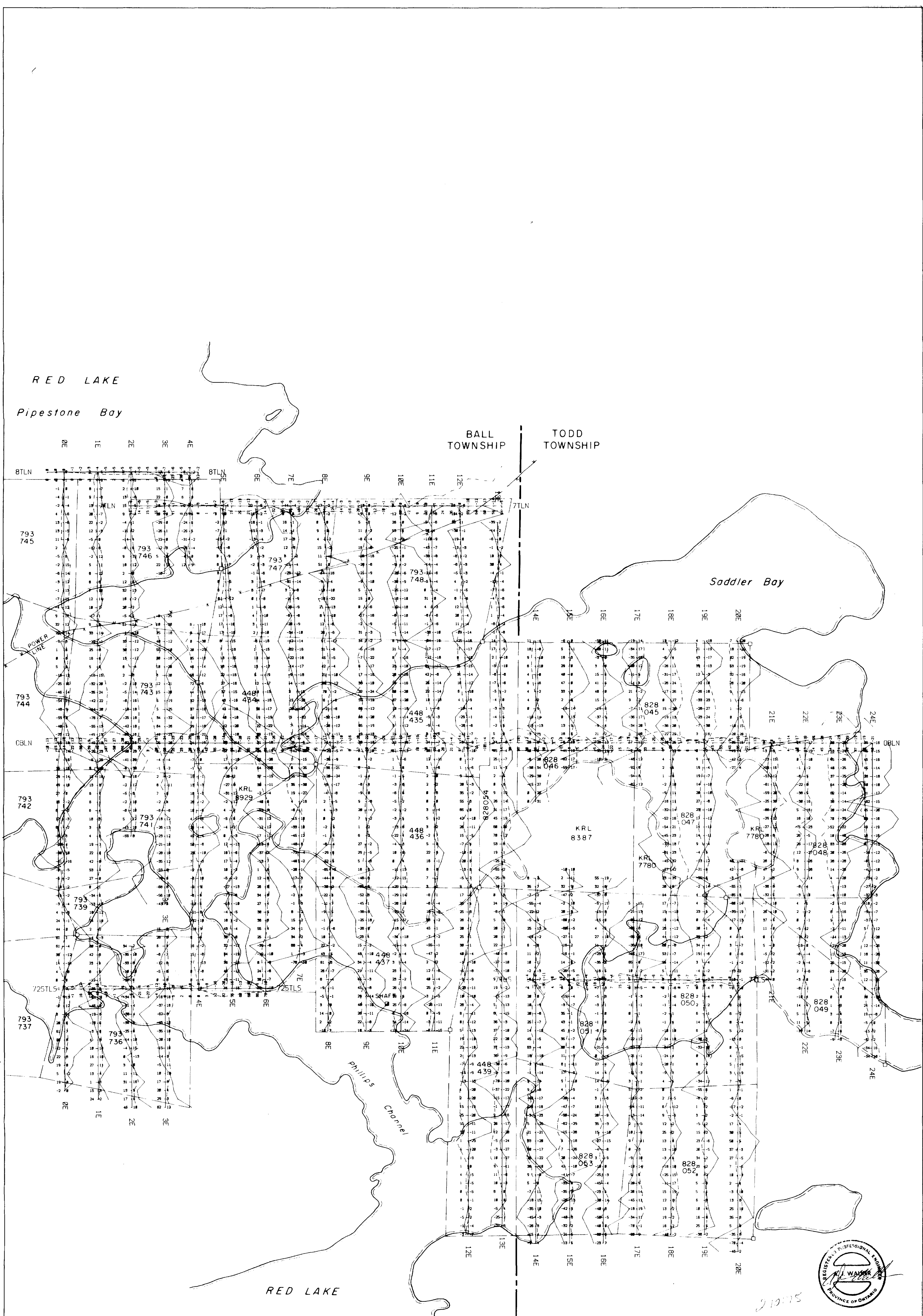
SHANE RESOURCES LIMITED  
 WEST RED LAKE PROPERTY  
 RED LAKE AREA ONTARIO  
 VLF EM SURVEY - Tx NLK  
 FILTERED VLF VALUES & CONTOURS



WALKER EXPLORATION LTD.  
 Mississauga Ontario,  
 APRIL 1987

DWG. 3 B





NTS 52 - M - 1

- LEGEND
- Stream, Swamp, Lakeshore.....
  - Claim Post and line.....
  - Instrument..... Geonics EM-16
  - Transmitter...NSS, Annapolis, Maryland, 24.8 kHz
  - Readings taken facing South, plotted IP|QP
  - Profile, Scale = 40 I/cm.....
  - Inphase Profile.....
  - Quadrature Profile.....

SHEET INDEX

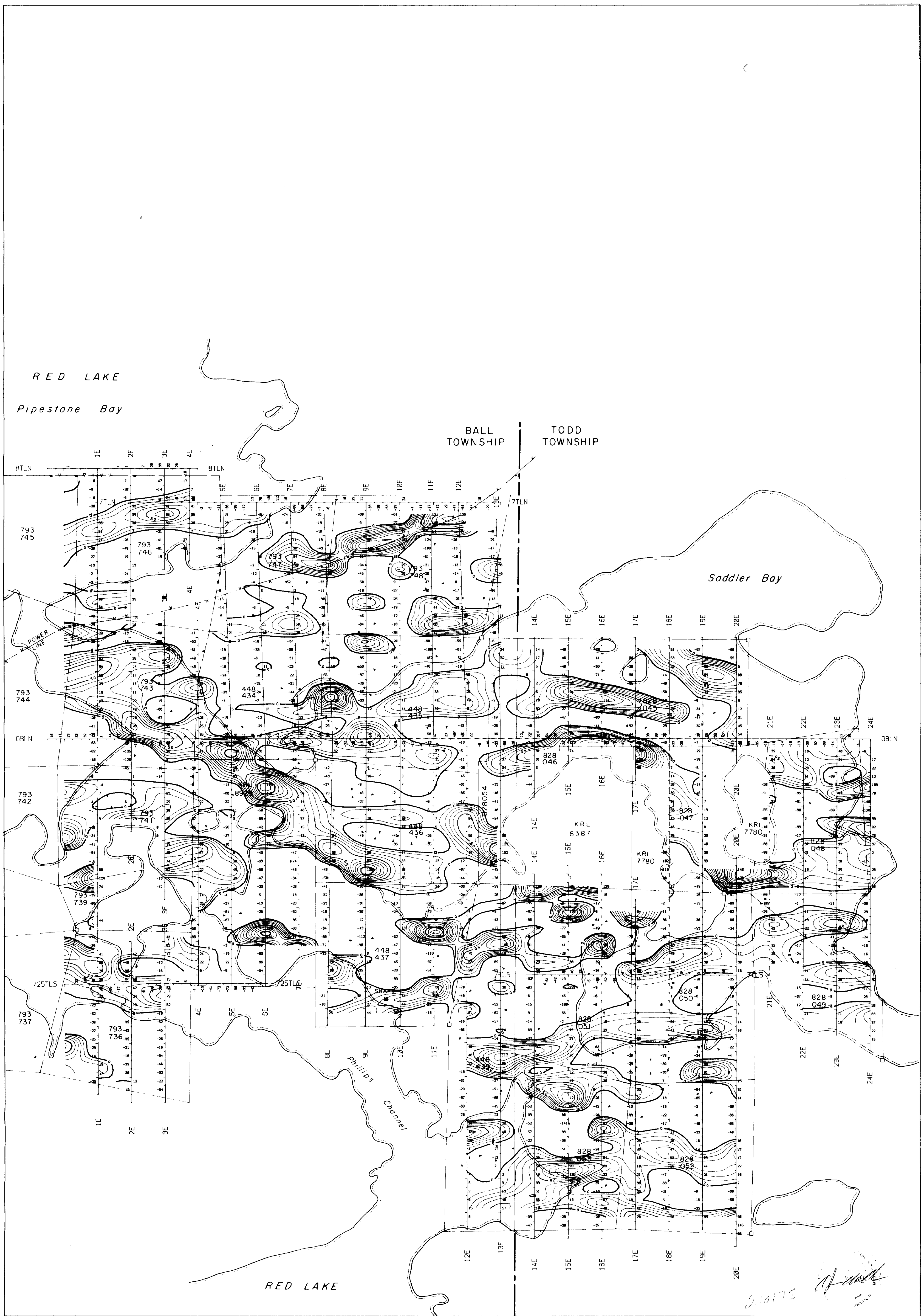
1	2	3
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SHANE RESOURCES LIMITED  
 WEST RED LAKE PROPERTY  
 RED LAKE AREA ONTARIO  
 VLF EM SURVEY - Tx NSS  
 VLF EM VALUES & PROFILES

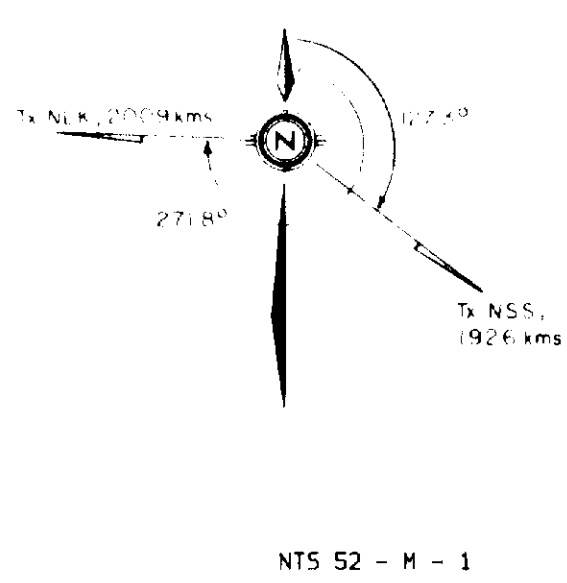
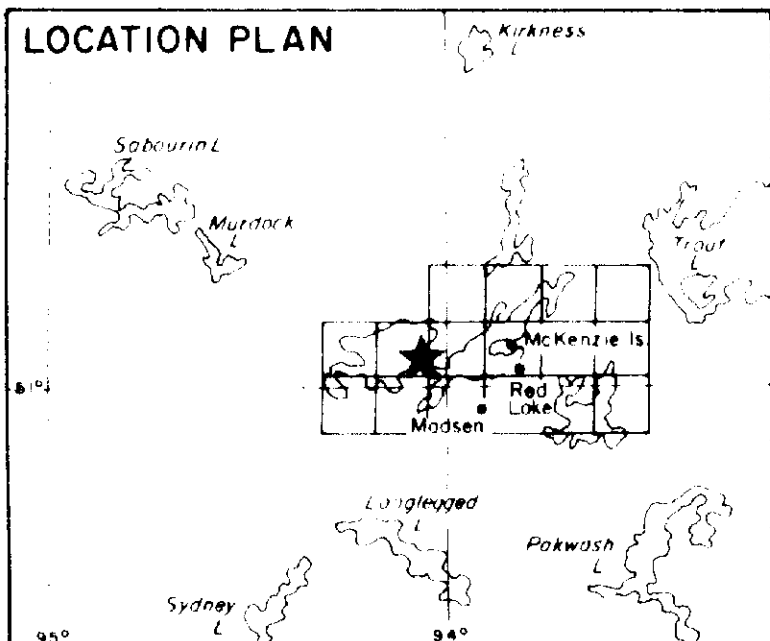
0 100 200 300 meters  
 Scale 1 : 5000

WALKER EXPLORATION LTD.  
 Mississauga Ontario  
 April 1987

DWG. 3 C



210175  
*[Signature]*



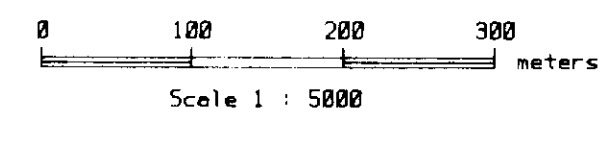
LEGEND

- Stream/Swamp/Lakeshore.....
- Clote Post and Line.....
- Instrument..... Geonics EM-16
- Transmitter...NSS, Annapolis, Maryland, 24.8 kHz
- Contours of Filtered VLF Inphase... 10 Interval
- 10 contour.....
- 50 contour.....
- 100 contour.....

SHEET INDEX

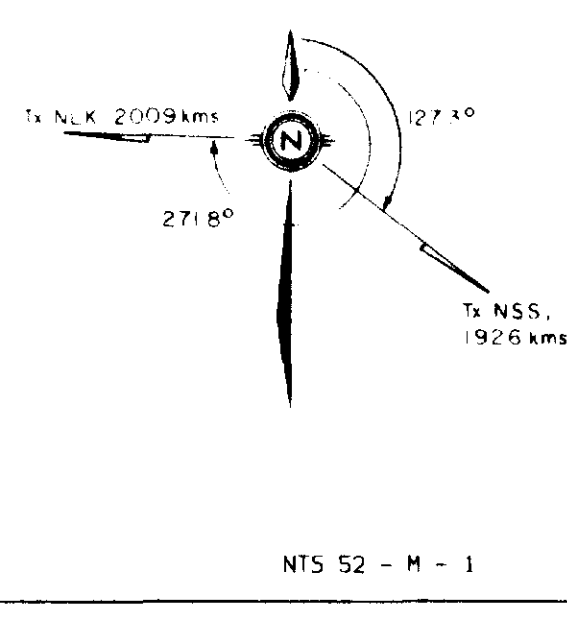
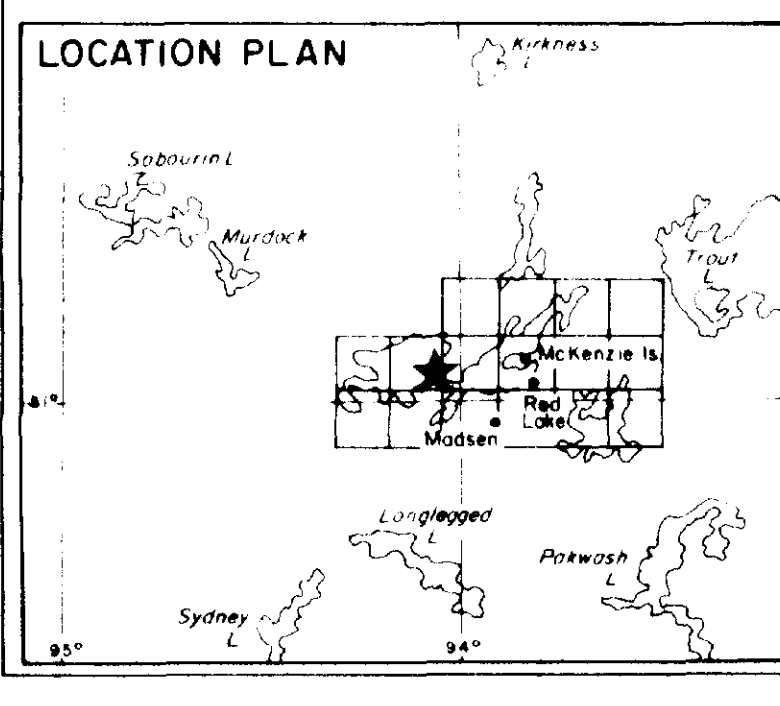
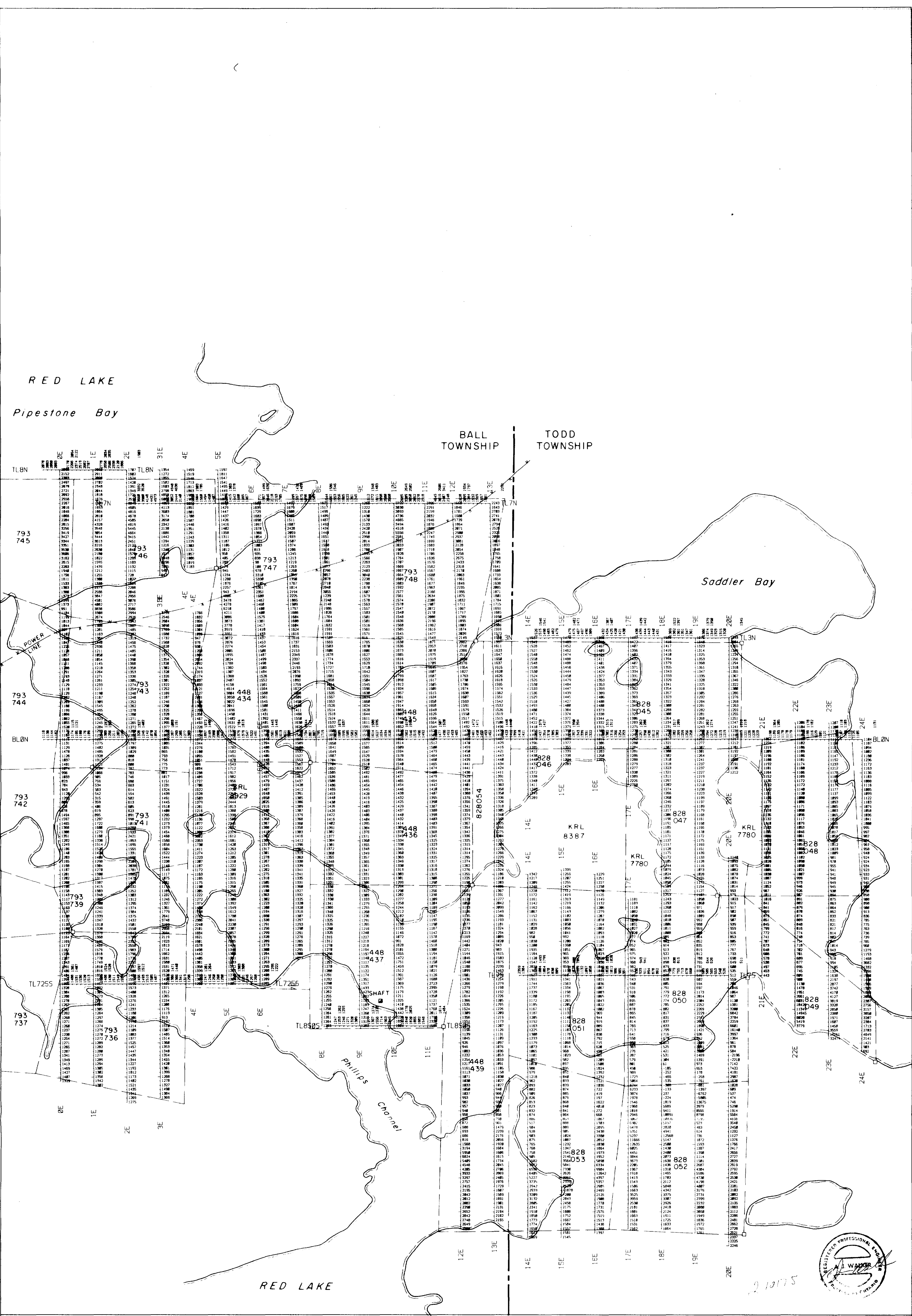
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SHANE RESOURCES LIMITED  
 WEST RED LAKE PROPERTY  
 RED LAKE AREA ONTARIO  
 VLF EM SURVEY - Tx NSS  
 FILTERED VLF VALUES & CONTOURS

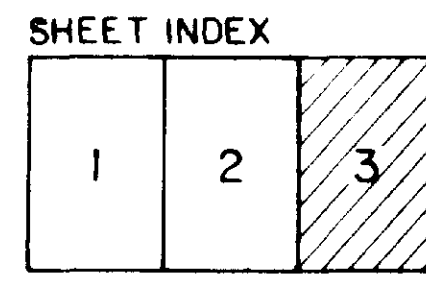


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 April 1987  
 DWG. 3 D

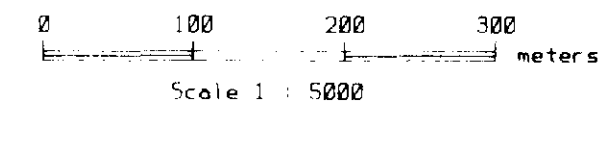




- LEGEND
- Stream/Swamp/Lakeshore.....
  - Lot/Post and line.....
  - Instrument..... EDR PPM-580
  - Base Station..... EDR PPM-400
  - Base Level..... 590000 mt



SHANE RESOURCES LIMITED  
 WEST RED LAKE PROPERTY  
 RED LAKE AREA ONTARIO  
 MAGNETOMETER SURVEY  
 TOTAL FIELD VALUES



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 Mississauga Ontario,  
 March 1987  
 DRG. 3 E

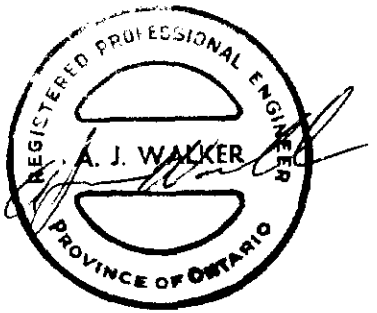
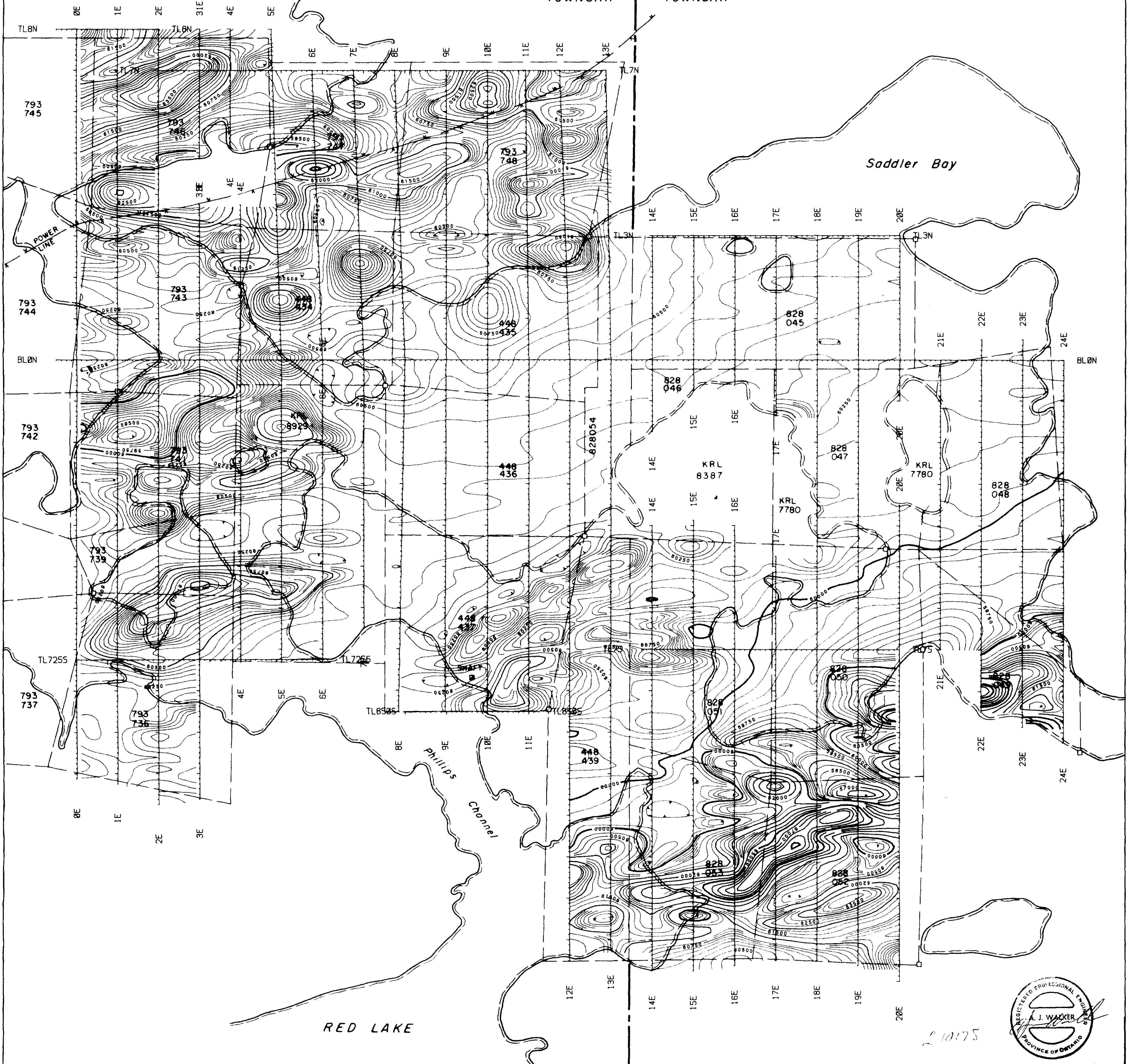


RED LAKE  
Pipestone Bay

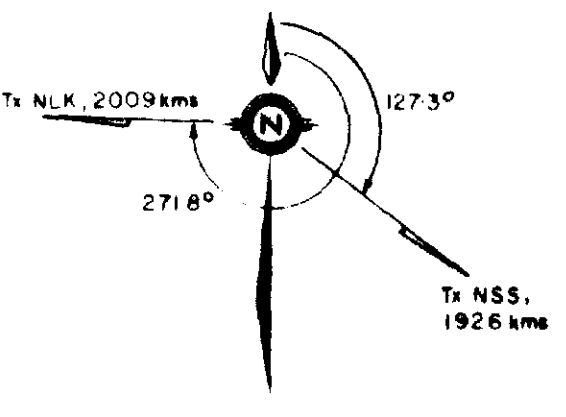
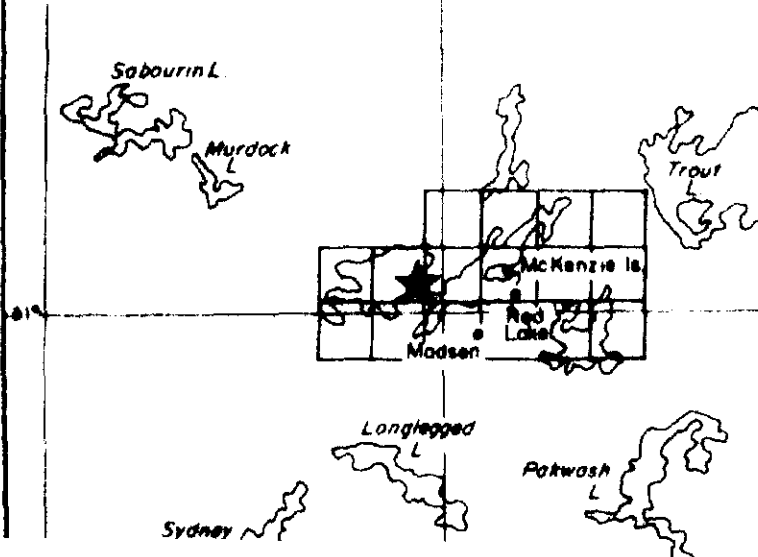
BALL TOWNSHIP  
TODD TOWNSHIP

Saddler Bay

RED LAKE



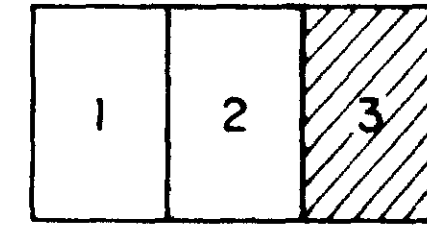
LOCATION PLAN



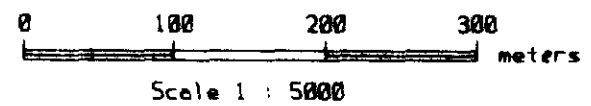
LEGEND

Stream, Swamp, Lakeshore.....	
Claim Post and line.....	
Instrument.....	EDR PPH-500
Base Station.....	EDR PPH-400
Contours of Vertical Field.....	10m interval
50m contour.....	
250m contour.....	
1000m contour.....	
5000m contour.....	

SHEET INDEX



SHANE RESOURCES LIMITED  
WEST RED LAKE PROPERTY  
RED LAKE AREA ONTARIO  
MAGNETOMETER SURVEY  
TOTAL FIELD CONTOURS



Scale 1 : 5000  
WALKER EXPLORATION LTD.  
Mississauga Ontario,  
March 1987

DRG. 3 F

