

52F05SW0035 2.9725 DOGPAW LAKE

010

REPORT  
ON  
GROUND GEOPHYSICAL  
DOGPAW LAKE AI  
(CAVIAR LAKE)



52F05SW0035 2.9725 DOGPAW LAKE

010C

1. INTRODUCTION
2. PREVIOUS WORK
3. GEOLOGY
4. SURVEY DESCRIPTION
5. PRESENTATION OF DATA
6. DISCUSSION OF RESULTS & CONCLUSIONS

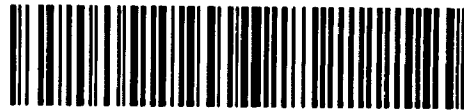
FIGURES FILE 1...Location Map 1":4 miles  
 1-1 Magnetometer Survey Map 1:2000  
 2-2 V.L.F. EM survey Map 1:2000

APPENDIX A...Claim Numbers  
 B...Holders of Property  
 C...Submitting party - For Assessment Work  
 D...Dates of Survey  
 E...Qualifications

**RECEIVED**

JAN 27 1987

**MINING LANDS SECTION**



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**MINING LANDS SECTION**

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REPORT  
ON  
GROUND GEOPHYSICAL SURVEYS  
DOGPAW LAKE AREA  
KENORA MINING DIVISION  
G - 2613

CLAIMS.....K - 855682 - 855684 incl.

INTRODUCTION

This report discusses the results of ground geophysical surveys , namely Magnetometer and V.E.F. EM , conducted on 3 claims in the Dogpaw Lake Area. These surveys were conducted during the period from Sept.17 - Sept.30,1986. The geophysical surveys are hereby submitted as assessment work (Subsection 9 - Section 86)

Location and Access

The location of the claims is shown on Figure 1. The survey area lies immediately East of Sioux Narrows - 35 miles South East of Kenora , Ont. Highway 71 provides direct access to Sioux Narrows and a branch "Reserve" road to Dogpaw and Caviar Lakes. From this point the claims are readily accessible by boat in summer and by ice road during the winter months. An Air Base at Nestor Falls , some 20 miles south of Sioux Narrows provides direct access to the claims area in both summer and winter.

PREVIOUS WORK

No previous work has been done by the present owner. The claims under discussion formed part of a claim group that included the Gold Panner Prospect , discovered in (1899 - 1903). Prospecting in the area was done by the R.Kyle Syndicate in the 1940,s.

GENERAL GEOLOGY

The claims cover South-West and West trending sequences of carbonated Archean Metavolcanics which have been intruded by Quartz and Quartz Feldspar Porphyry dikes and sills. A smallplug of granodiorite intrudes the 3 claims.

SURVEY DESCRIPTION

Line Cutting

A total of 3.88 miles of lines were established from a magnetic East-West base line which forms the South boundary of the claim group. The lines are cut magnetic North-South at 100 metre intervals and stations were established every 30 metres along the base line and the North-South cut lines. The North claim boundary was cut and chained and established as a North tie line.

Magnetometer Survey (Technical Data)

The Magnetometer survey was conducted with a McPhar M-700 Fluxgate Magnetometer, with a sensitivity of 10 gammas per scale division, measuring relative variations in the vertical component of the magnetic field.

A base station was established at 0+30 m East on the base line with a value of 680 gammas for control of the survey.

Readings were taken at 30 metre intervals with fill in readings at 15 metres where necessary for definition of anomalies.

200 stations were occupied for the survey. 200 readings recorded.

V.L.F. EM Survey (Technical Data)

The V.L.F. EM Survey employed a Geonics E.M. unit that measures in phase and out of phase components of vertical magnetic field as a percentage of the horizontal primary field.

Sensitivity.....in phase --- plus or minus 150%  
out of phase--plus or minus 40%

Operating frequency .....15 -25.0 K.H.

V.L.F. radio band system used for the survey was Seattle, Washington at 24.0 K.H.

A total of 174 stations were read.

Number of readings ..... 174 in phase ..... 174 out of phase.

Total number of readings .....348.

## PRESENTATION OF DATA

All the geophysical data is presented at a scale of 1:2000 and plotted on the survey grid together with principal topographic features, claim locations and numbers.

The corrected magnetometer readings (diurnal variation) are annotated at the stations along the traverses and contoured at 100 gamma intervals. The EM survey employed dip angles with profiles. The dip angles were annotated along the traverse lines, in phase readings were plotted to the right hand side and out of phase to the left.

The conductor axis and crossovers are marked as hash lines and circles as illustrated on the legend map.

## DISCUSSION OF RESULTS AND CONCLUSIONS

### Magnetometer Survey

The Magnetometer readings range from a background of 600 gammas to a high of 1600 gammas. One isolated "high" read 2500 gammas on line 6+00W 360 metres N. This area lies within a plug of granodiorite. A soil sample from this area assayed 70 ppb au.

The Magnetic highs centred on lines zero 120metres N., line 200 W. 15 metres N. and line 10 on the base line, reflect outcropping of quartz feldspar porphyry dikes or sills that have intruded the meta-volcanics. The V.L.F. conductor axis appear to outline the north edge of the intrusives.

### V.L.F. EM Survey

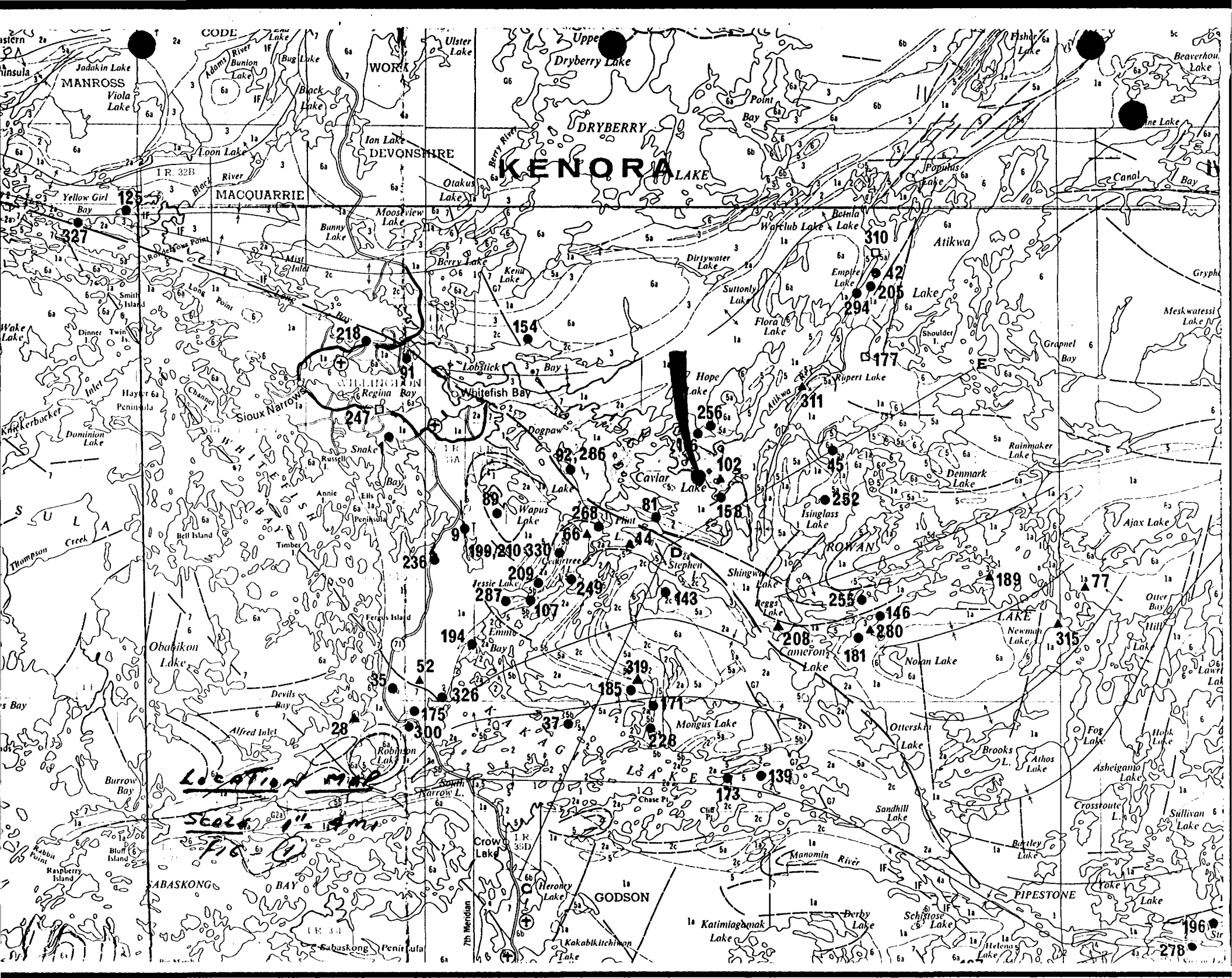
The EM Survey disclosed a series of E.W. trending conductors extending across the 3 claims.

The axis and continuity of individual conductors as shown the V.L.F. electromagnetic map have been derived by examining the dip angles and quadrature readings.

Because of the shallow overburden and anomaly shape, all anomalies are inferred to arrive from bed rock conductors.

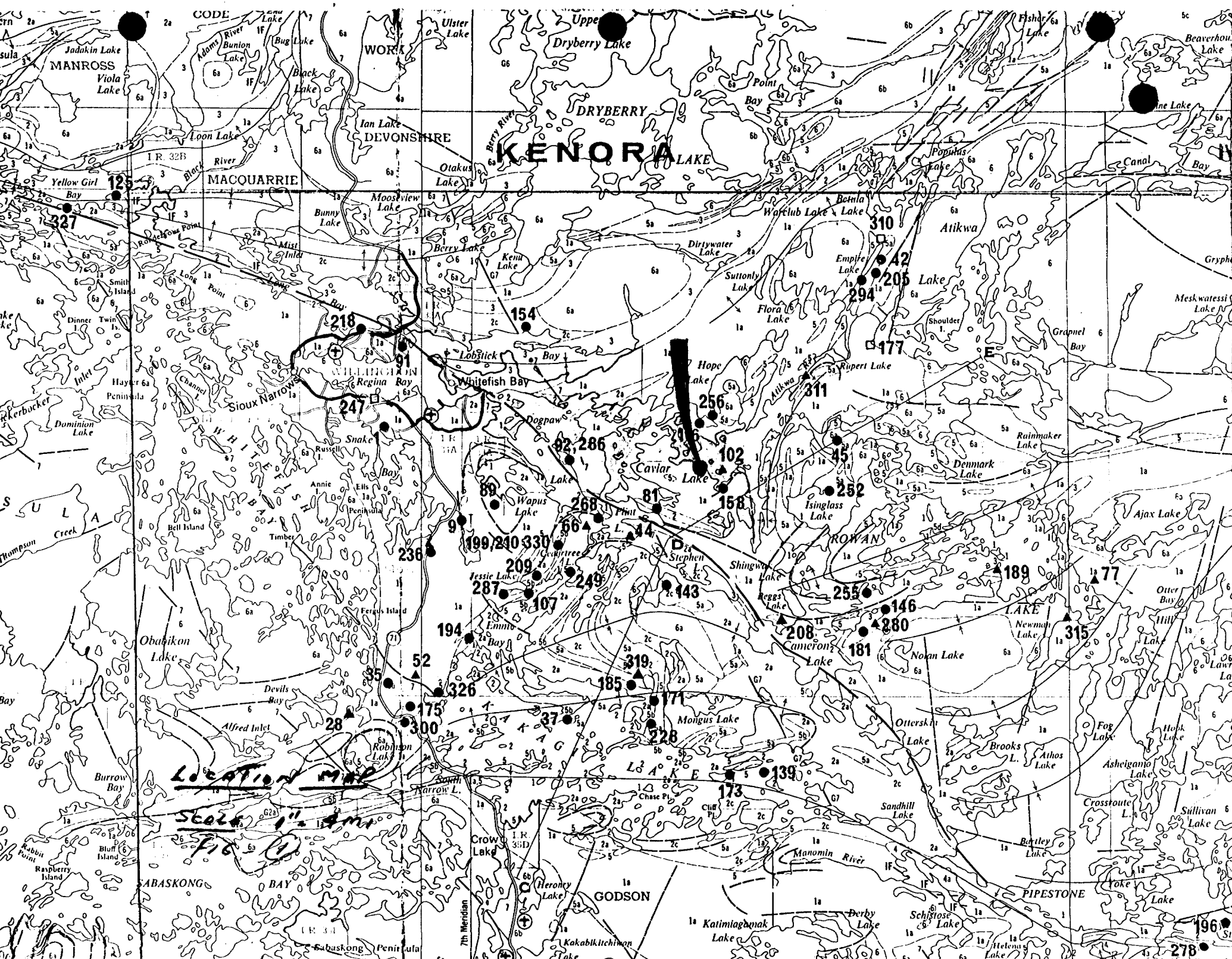
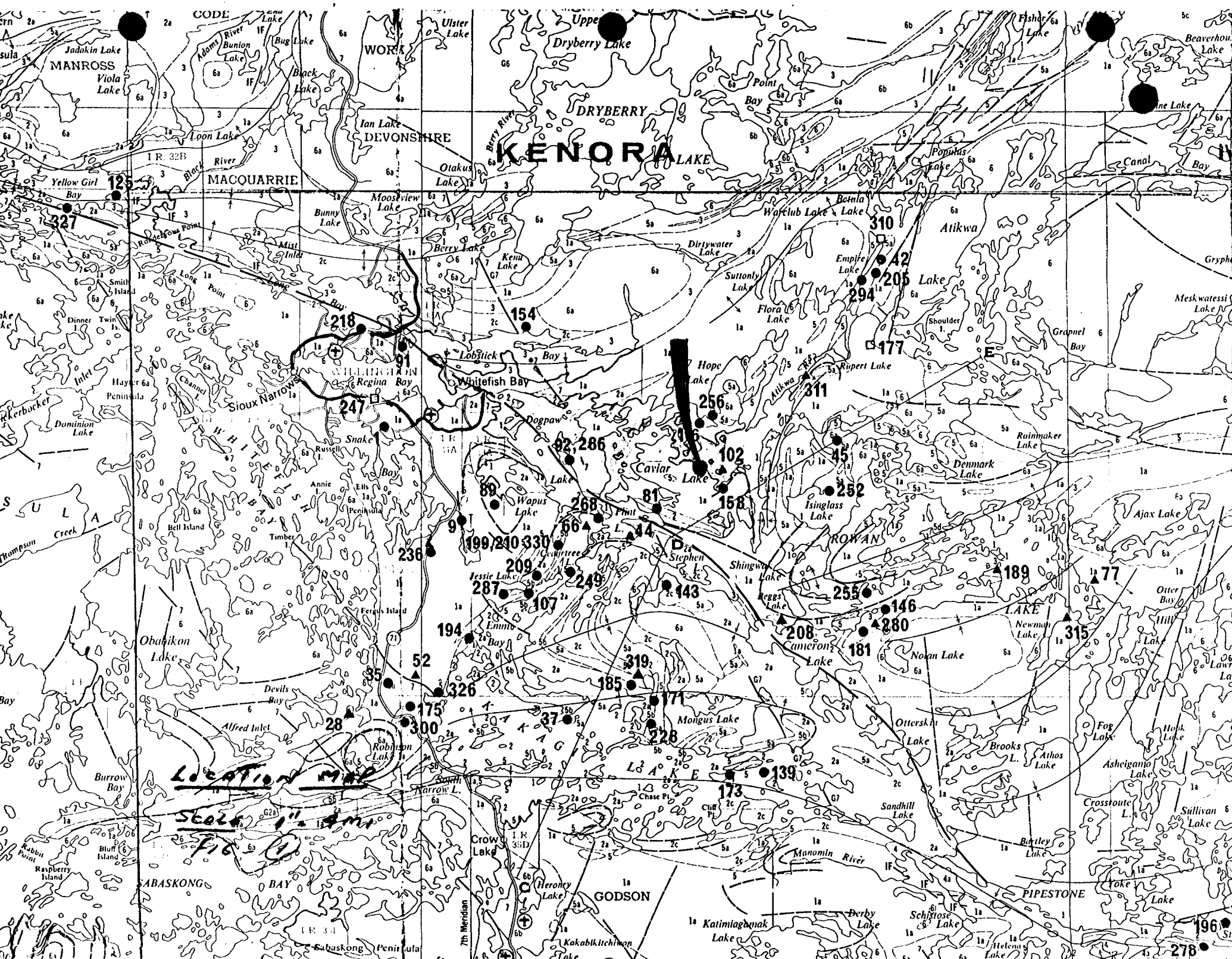
Comparison of the V.L.F. conductors with the magnetic data indicates that the conductors striking ~~striking~~ east-west and dipping south are on the north flanks of the magnetic zones. Pyrite and pyrrhotite and minor chalco-pyrite have been noted within the intrusives.

Continuity of a moderate to strong conductor axis extending from line 4+00W to 7+00W at 100 metres N. appears to be interrupted on the east and west ends by a N.N.E. fault or shear zone as indicated on V.L.F. survey map. For better definition, short lines could be established at 3+50 W. and 7+50 W.



**LOCATION MAP**  
**Scale 1:100,000**

# KENORA LAKE



APPENDIX

Claim Numbers

K-855682 , K-855683 , K-855684.

Holders of Property

D.R.Doal  
208 Acacia Drive  
Airdrie, Alta.  
T4B 1G4

Date of Survey

Magnetometer ..... Sept.24 - Sept.26 , 1986.  
V.L.F. EM ..... Sept.27 - Sept.30 , 1986.

Qualifications

The writer , D.R.Doal , is a graduate of Haileybury School of Mines and has practised his vocation for some 30 years in all phases of mining exploration.

Submitted by D.R.Doal

*D.R. Doal*

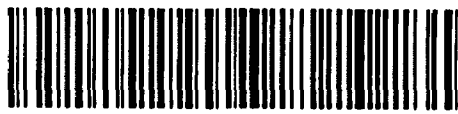
*Qual.*

*63.2748.*

RP

#149-86

The Mini



52F05SW0035 2.9725 DOGPAW LAKE

900

Type of Survey(s): ELECTRO MAGNETIC - MAGNETIC

Claim Holder(s): D. R. DONL Prospector's Licence No.: H-11496

Address: Box 1815 AIRDRIE ALTA TON-080

Survey Company: D. R. DONL Date of Survey (from & to): 17 9 86 to 30 9 86 Total Miles of line Cut: 3.86

Name and Address of Author (of Geo-Technical report): D. R. DONL Box 1815 AIRDRIE ALTA TON-080

Credits Requested per Each Claim in Columns at right			Mining Claims Traversed (List in numerical sequence)		
Special Provisions	Geophysical	Days per Claim	Mining Claim		Expend. Days Cr.
			Prefix	Number	
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	40	K	855682	
	- Magnetometer	20		855683	
	- Radiometric			855684	
	- Other				
For each additional survey: using the same grid: Enter 20 days (for each)	Geological				
	Geochemical				
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim			
	- Electromagnetic				
	- Magnetometer				
	- Radiometric				
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Geological				
	Geochemical				
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	Days per Claim			
	Magnetometer				
	Radiometric				

RECEIVED NOV 26 1986 MINING LANDS SECTION

KENORA MINING DIV. RECEIVED OCT 1 1986 AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

KENORA MINING DIV. RECEIVED NOV 14 1986 AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

855682

Total number of mining claims covered by this report of work. 3

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$  ÷ 15 = Total Days Credits

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

For Office Use Only

Total Days Cr. Recorded: 180 Date Recorded: NOV. 14/86 Mining Registrar: [Signature]

Date Approved as Recorded: 8.2.4 [Signature]

Date: Oct 1 1986 Recorded Holder or Agent (Signature): [Signature]

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying: D. R. DONL Box 1815 AIRDRIE ALTA TON-080

Date Certified: Oct 1 1986 Certified by (Signature): [Signature]





Mining Act

In the matter of mining claims:

K 855682 to 84 inclusive

in the Area of Dogpaw Lake.

On consideration of an application from the recorded holder, D.R. Doal under Section 77 Subsection 22 of the Mining Act, I hereby order that the time for filing reports and plans in support of geophysical (Electromagnetic & Magnetometer) assessment work recorded on November 14, 19 86 be extended until and including February 2, 19 87.

1987.01.16

Date

*[Handwritten Signature]*

Signature of Director, Land Management Branch

Copies: Mr. D.R. Doal  
Box 1815  
Airdrie, Alberta  
TOM OBO

Mining Recorder  
Kenora, Ontario  
File No. 149-86

*[Handwritten initials]*

2.9725

January 6, 1987

Report of Work 149

D.R. Doal  
Box 1815  
Airdrie, Alberta  
TOM OBO

Dear Sir:

RE: Mining Claims K 855682, et al,  
in the Area of Dogpaw Lake

We have not received  
Geophysical (Electro  
above-mentioned clai

As the assessment "R  
Recorder on November  
Section 77 of Mining  
reports and maps to

If the material is  
we will have no alt  
to delete the work

For further informat  
(416) 965-4888.

Yours sincerely,

J.C. Smith, Supervi  
Mining Lands Sectio

Whitney Block, 6th  
Queen's Park  
Toronto, Ontario  
M7A 1W3

AB/mc

cc: Mining Record  
Kenora, Ontar

Encl.

**Action Memo**

Time: 5:05 pm Date: 87-01-12

To: Arthur

From (Name and City): Mr. Doal, Alberta

I.C.N. No. Area Code Telephone No. Ext. Message Taken By

403 948-2823

Phoned  Please Call  Will Call Back  Waiting in Person  Will Return

On Hold  Returned Your Call  Wishes Appointment  Was Here

File  Draft Reply For My Signature  Provide More Details  For Your Information

Type Draft  For Your Approval and Signature  Keep Me Informed  Per Discussion

Type Final  Circulate, Initial and Return  Take Appropriate Action  Per Your Request

Make Copies  Return With Comments  Note and See Me  Returned With Thanks

Please Answer  Investigate and Report  Note and Return

Comments: Re: your letter of Jan 6 '87  
Report of Work 149 (Kenora)  
Require an extension to  
get maps to you.  
Please call asap!

2.9725

E.M. Mag.

K-855682

1/4 1/4

83

N/V

84

V V

OK

LOBSTICK BAY G-2627

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

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. 360, SEC. 63, SUBSEC. 1

REFERENCES

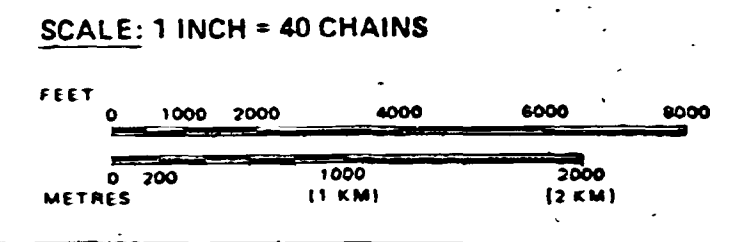
AREAS WITHDRAWN FROM DISPOSITION

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

Description	Order No.	Date	Disposition	File
(R)	W80/86	Oct 8/86	S+MR	7598

Effective as shown

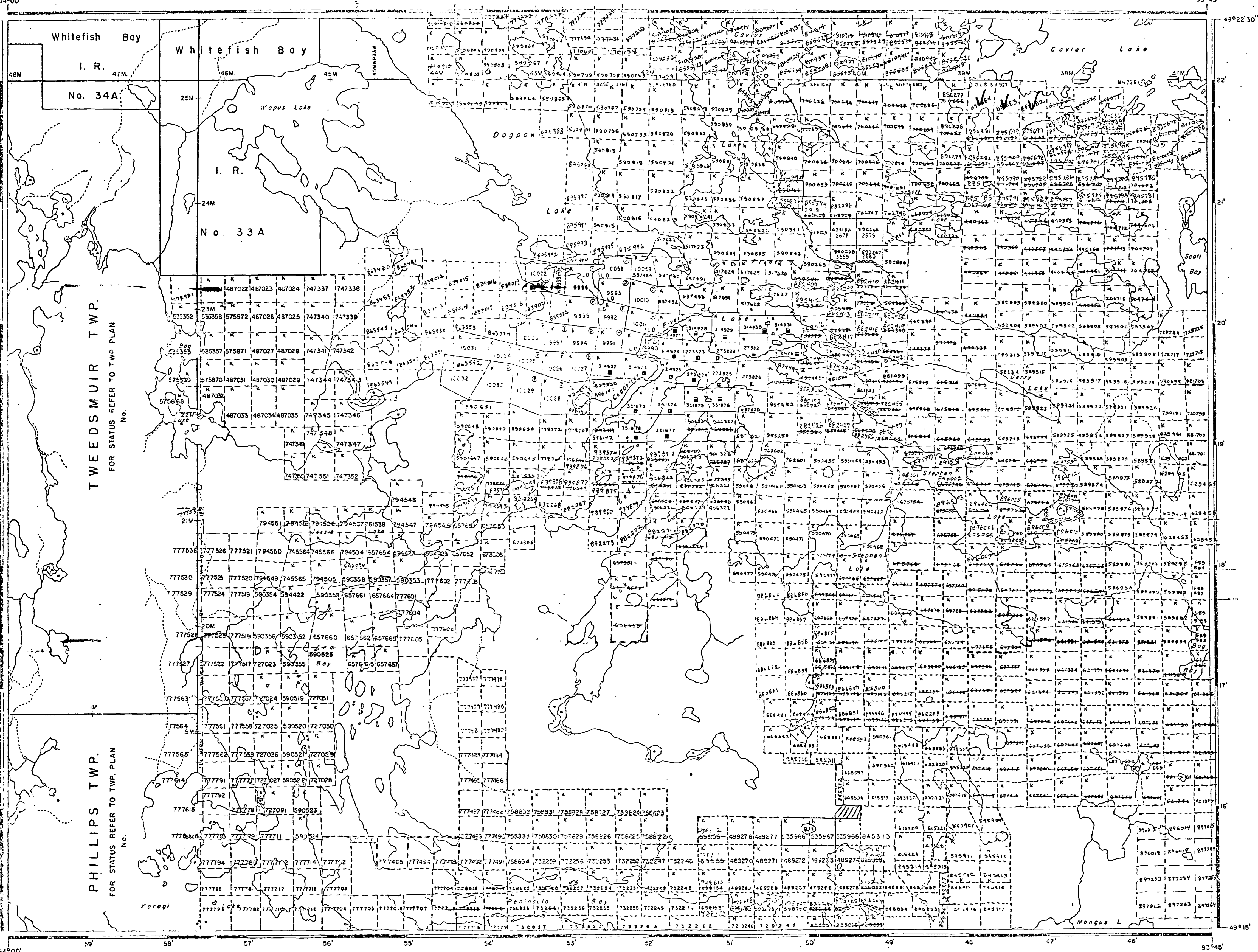
Stamp: 891011919346



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

Ontario Ministry of Natural Resources Land Management Branch

Date: JANUARY, 1984 Number: **G-2613**



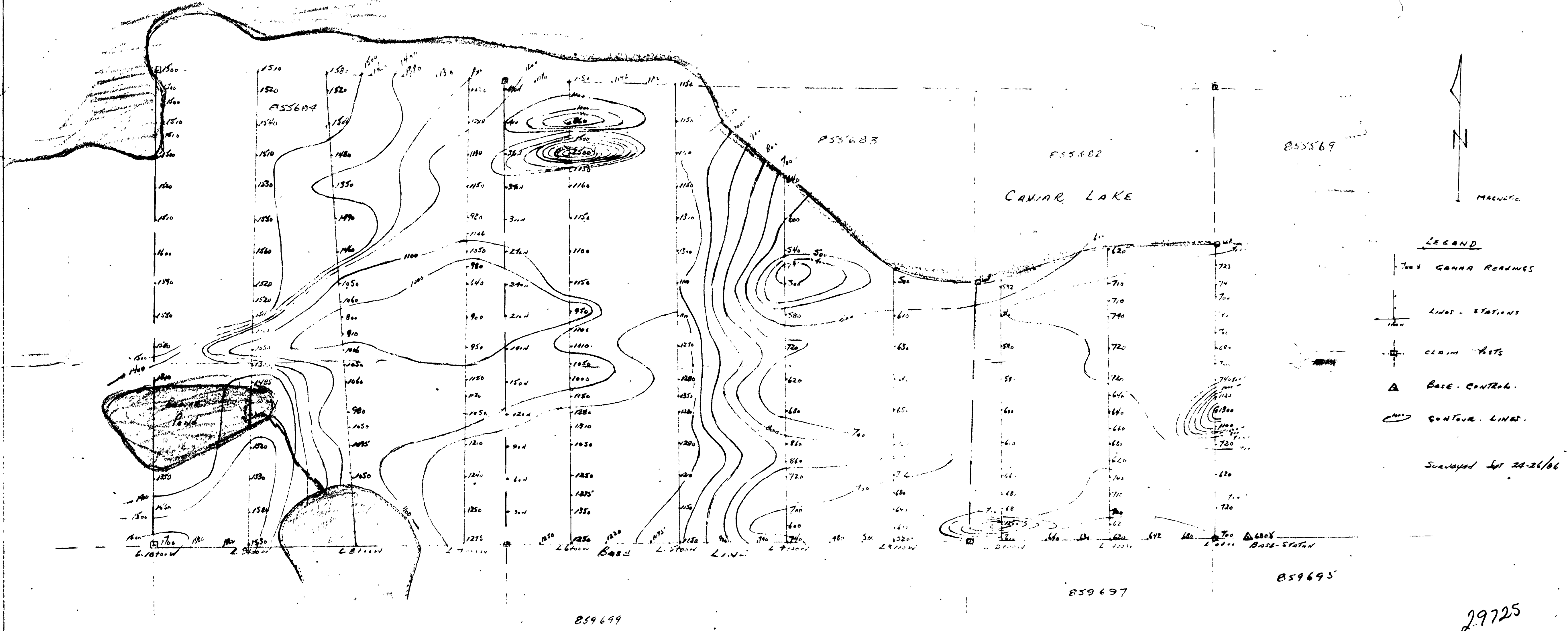
TWEEDSMUIR TWP. FOR STATUS REFER TO TWP. PLAN No.

PHILLIPS TWP. FOR STATUS REFER TO TWP. PLAN No.

HERONRY LAKE G-2621



CAVIAR LAKE

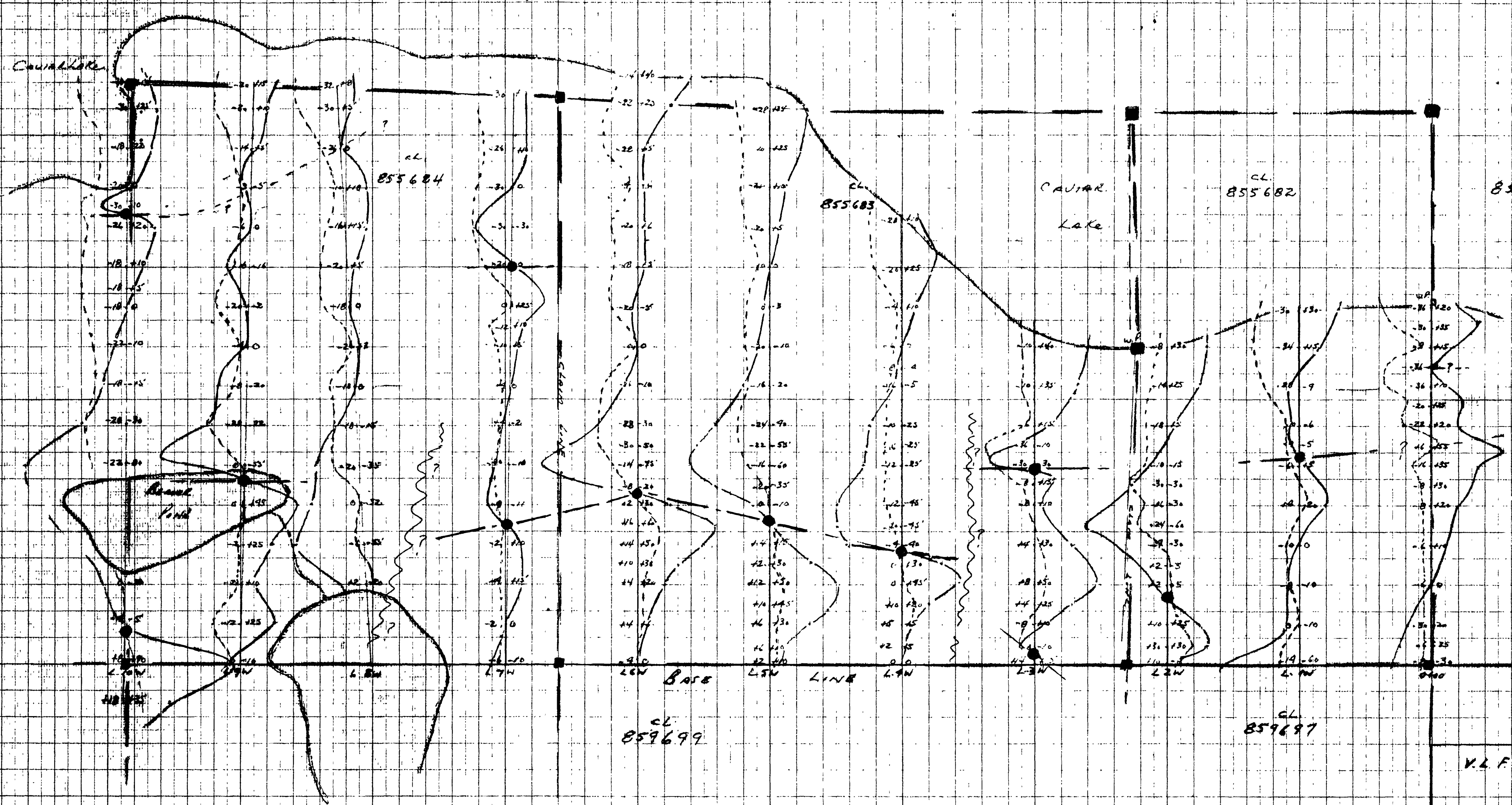


LEGEND

- GANNA READINGS
  - LINES - STATIONS
  - CLAIM TESTS
  - BASE CONTROL
  - CONTOUR LINES
- Surveyed Jan 24-26/06

MAGNETOMETER SURVEY  
 CLAIMS - 855682, 855684, etc.  
 Dug Pan Lake AREA  
 G-2613  
 Scale 1:2000  
 D.R. Deal 17 Jan/07





- LEGEND**
- Emb. 5%.
  - Dip Angle.
  - In Mass.
  - Contour Line.
  - claim posts.
  - cross oval.
  - conductor axis.
  - Fault Zone.

Surveyed  
Sep. 27.30/06

V. L. F. ELECTRO MAGNETIC  
SURVEY  
CLAIMS 855682 - 855685 and  
DOG PAW LAKE AREA  
62613  
Scale 1:2000  
VERT 1 CM. 20'  
D.R. Pool  
Jan 1907

