



52J08NW8845 2.12487 POISSON

010

Magnetic and VLF Electromagnetic Surveys  
by  
Geosearch Consultants Limited  
for  
Placer Dome Inc.  
on  
Project 387 - One Pine Option  
Poisson Township, Ontario  
To Accompany Maps 89-111, 112, 113, 114 (A, B, C)

May 15, 1989

## INTRODUCTION

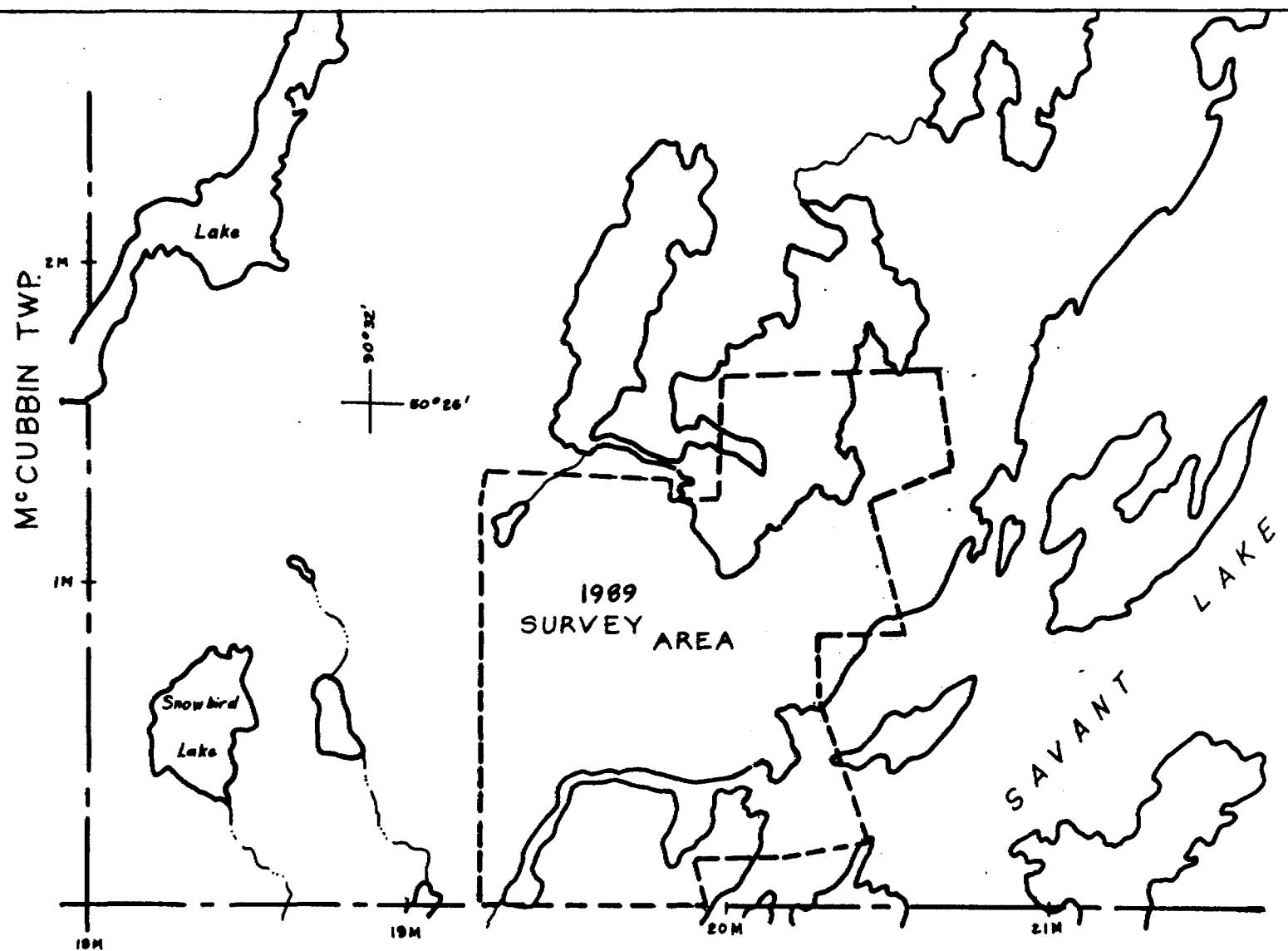
A VLF electromagnetic and a total field magnetic survey were carried out for Placer Dome Inc. on Project 387, One Pine Option, Poisson Township, Ontario in February and March 1989.

The property consists of 27 contiguous, unpatented mining claims, a list of which is appended to this report. The property is situated along the southern boundary of Poisson Township, on and around Savant Lake. Access to the property can be made by fixed winged aircraft from the towns of Savant Lake and Pickle Lake, Ontario.

The purpose of the surveys was to outline subsurface, geo-electrical conductors, and to identify structures which may prove conducive for gold mineralization.

Eleven conductive horizons were located, most of which are due to surficial conductivity. The magnetics outlined a rather large "S" fold and a dextral fault.

The accompanying maps show the area surveyed and the results obtained.



**LOCATION MAP - PROJECT 387**

ONE PINE OPTION / POISSON TWP, ONT.  
N.T.S.: .52 J 7,8

**SCALE**  
0  $\frac{1}{2}$  1  
miles  
2" to 1 mile

## METHOD

The magnetic survey was completed using Gem Systems GSM-18 Proton Precession Magnetometers. The diurnal variations were corrected by means of a base station recorder with readings taken at three second intervals. The very high magnetic values were taken using a Gem Systems GSM-19 magnetometer. The values were posted (Maps 89-111-A, B, C) and contoured (Maps 89-113-A, B, C). Contouring was completed by Placer Dome Inc.

The VLF-EM survey was completed using Geonics EM-16 receivers. The transmitting station used was NLK, located near Seattle, Washington, transmitting at a frequency of 24.8 kHz. The inphase and quadrature components were posted and profiled (Maps 89-112-A, B, C). The inphase data was Fraser-filtered, and these values were posted and contoured (Maps 89-114-A, B, C). Contouring was completed by Geosearch Consultants using Geosoft Software.

## RESULTS

The magnetic data outlines an area with very high magnetic amplitudes (in excess of 100,000 gammas). Many of these high anomalies are linear in nature, reflecting bands of iron formation. A large "S" fold is traced out by these bands, covering the entire survey area. This large fold is made up of three

or four narrow IF bands within a relatively quieter background. Within this "S" fold, a dextral fault is observed. It extends from L 40+00E, 36+00S to L 60+00W, 12+00N. Offsets of the narrow IF bands are evident along the length of the fault.

The VLF electromagnetic survey outlined numerous conductive horizons. A list of these locations are as follow:

#

- 1) L 78+00W, 8+20S to L 76+00W, 8+20S
- 2) L 74+00W, 9+70S to L 70+00W, 9+30S
- 3) L 64+00W, 18+10S to L 48+00W, 22+10S
- 4) L 44+00W, 19+80S to L 36+00W, 22+10S
- 5) L 36+00W, 27+70S to L 32+00W, 28+00S
- 6) L 66+00W, 5+80N to L 46+00W, 14+00S
- 7) L 42+00W, 4+20S to L 30+00W, 10+50S
- 8) L 32+00W, 34+80N to L 18+00W, 33+00N
- 9) L 24+00W, 3+80N to L 12+00W, 8+20S
- 10) L 10+00W, 0+75N
- 11) L 10+00E, 0+70S to L 12+00E, 0+80S

There is a remarkable coincidence between these conductors and the narrow channels of Savant Lake. Conductors # 1, 2, 3, 4, 5 and # 6 are all deemed to be caused by surficial conductivity, and not bedrock conductors. Conductor # 8 appears to

follow a creek bed. Conductor # 9 is located in very swampy terrain. Conductors # 10 and # 11 are located at the lake shore of Savant Lake. All of these are also deemed not to be due to bedrock conductivity. Conductor # 7 appears to follow an old channel, as a bay is located along the strike of its eastern extremity. However, there is an apparent correlation of this conductor with a magnetic low.

#### RECOMMENDATIONS

The majority of conductive horizons appear to be due to surficial conductivity, rather than bedrock conductors. The fact that conductor # 7 has a magnetic correlation with the "S" fold may indeed be coincidental. Prior to drill testing, it is recommended that a horizontal loop electromagnetic survey test conductor # 7. The intense magnetics will cause interference with the inphase data of the HLEM survey, however, the magnetics are not excessive over conductor # 7.

The "S" fold and fault reflected in the magnetics require further geological interpretation. The high amplitude magnetics suggest that there is very limited overburden cover. Correlation of the data presented with the known geology should be completed prior to any drilling.

Respectfully submitted,



Louis Racic  
Geophysicist



**Ministry of  
Northern Development  
and Mines**

## **Report of Work (Geophysical, Geological, Geochemical and Expenditure)**



52J08NW8845 2.12487 POISSON

900

ω8903-060

Type of Survey(s)	VLF-EM, & Magnetic	Township or Area	Poisson Twp. G-2883
Claim Holder(s)	Placer Dome Inc.	Prospector's Licence No.	T-837
Address	P.O. Box 350, IBM Tower, TD Centre, Toronto, Ont.		
Survey Company	Geosearch Consultants Limited	Date of Survey (from & to)	Total Miles of line Cut
		19 Day   02 Mo.   89 Year	48.16 miles
Name and Address of Author (of Geo-Technical report)	Louis Racic, 360-111 Queen St. E., Toronto, Ont., M5C 1S2		

**Credits Requested per Each Claim in Columns at right**

**RECEIVED**

- Other  
- 3 1989  
APR Radiological

# **MINING LANDS SECTION**

Airborne Credits

**Note:** Special provisions  
credits do not apply  
to Airborne Surveys.

**Expenditures (excludes power & piping)**

**ASSESSMENT FILES  
OFFICE**

Performed on Claim(s)

AUC: 0.9

#### Calculation of Expenditure/Draw Credits

**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	Recorded Holder or Agent (Signature)
May 14 /89	Mr. G. R. Reid

## 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 for Race Day: 360-111 Queen St. E., Toronto, Ont., M5C 1S2

Date Certified 03/89

~~Certified by (Signature)~~

1382 (85/12)



**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) VLF-Electromagnetic & Magnetic

Township or Area Poisson Twp., Ontario

Claim Holder(s) Placer Dome Inc.

Survey Company Geosearch Consultants Ltd.

Author of Report Louis Racine

Address of Author 360-111 Queen St. E., Toronto, Ont.

Covering Dates of Survey 19/02/89 - 15/05/89  
(linecutting to office)  
48.16 miles

### Total Miles of Line Cut

**SPECIAL PROVISIONS**  
**CREDITS REQUESTED**

**ENTER 40 days (includes  
line cutting) for first  
survey.**

**ENTER 20 days for each additional survey using same grid.**

	DAYS per claim
Geophysical	
- Electromagnetic	40
- Magnetometer	20
- Radiometric	
- Other	
Geological	
Geochemical	

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

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

DATE: 15/05/89

**SIGNATURE**

**Author of Report or Agent**

Res. Geol. \_\_\_\_\_ Qualifications Q. 80)

## Previous Surveys

File No.      Type      Date      Claim Holder

**MINING CLAIMS TRAVERSED**  
**List numerically**

(prefix)	(number)
Pa	43.7.126-43.7.130
Pa	486010-486013
Pa	517557-517571
pa	820983-820984

If space insufficient, attach list

# GEOPHYSICAL TECHNICAL DATA

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

Number of Stations	2520	Number of Readings	MAG 5064	VLF 5056
Station interval	100 feet (50 feet)	Line spacing	200 feet	
Profile scale	1 inch = 80%			
Contour interval	100 gammas			

**MAGNETIC**

Instrument	Gem Systems GSM-18 and GSM-19			
Accuracy — Scale constant	0.1 gamma			
Diurnal correction method	Base station recorder with readings taken			
Base Station check-in interval (hours)	at 3 second intervals			
Base Station location and value				

**ELECTROMAGNETIC**

Instrument	Geonics EM-16			
Coil configuration				
Coil separation				
Accuracy	1%			
Method:	VLF <input checked="" type="checkbox"/> Fixed transmitter	<input type="checkbox"/> Shoot back	<input type="checkbox"/> In line	<input type="checkbox"/> Parallel line
Frequency	NLK Seattle 24.8 kHz <small>(specify V.L.F. station)</small>			
Parameters measured	In phase and quadrature components of the vertical secondary field.			

**GRAVITY**

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

**INDUCED POLARIZATION**

**RESISTIVITY**

Instrument				
Method	<input type="checkbox"/> Time Domain	<input type="checkbox"/> Frequency Domain		
Parameters — On time		Frequency		
— Off time		Range		
— Delay time				
— Integration time				
Power				
Electrode array				
Electrode spacing				
Type of electrode				



PLACER DOME INC.

P.O. BOX 350  
SUITE 3500, IBM TOWER  
TORONTO-DOMINION CENTRE  
TORONTO, ONTARIO  
M5K 1N3

(416) 868-6060  
TELEX 065-24590  
TELECOPIER (416) 366-1775

EXPLORATION DEPARTMENT

May 17, 1989

**DELIVER**

Ministry of Northern Development  
and Mines  
Mining Land Section  
880 Bay Street  
3rd. Floor  
Toronto, Ontario  
M5S 1Z8

Project 387

Attention: Dr. W.R. Cowan  
Provincial Manager, Mining Lands  
Mines & Minerals Division

**RECEIVED**

MAY 17 1989

**MINING LANDS SECTION**

Dear Dr. Cowan:

**Re: Geophysical Report - Poisson Township, Ontario**

We enclose herewith, in duplicate, a Report and Plans prepared by Geosearch Consultants Limited covering 60 days Magnetic and Electromagnetic Survey in Poisson Township.

Enclosed is a copy of the Report of Work which we forwarded to the Mining Recorder in Sioux Lookout, Ontario.

Please date-stamp the enclosed copy of this letter and return it to me.

Yours very truly,

PLACER DOME INC.

M. Luba Vcislo  
Land Manager

MLV:sh  
Encl.



TOTAL FIELD MAGNETIC SURVEY  
by  
PLACER DOME INC.  
for  
GEOSearch CONSULTANTS LTD.

PROJECT 387 - ONE PINE OPTION  
POSSON TOWNSHIP, ONT.

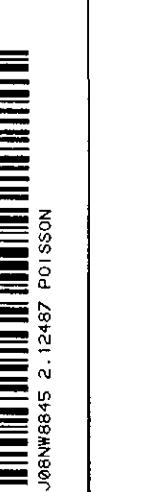
DATE : FEB 1989  
NTS : 52 J 7, 8  
BRN : J.H.R.

Scale 1:2,400  
1 in. = 200 ft  
200 ft

MAP KEY

BASE LEVEL 60,000 AT REMNED  
INSTRUMENT : DEX SYSTEMS 504-18 MAGNETOMETER

TOPOGRAPHY  
CLAIM POST  
LAKE  
STREAM  
SHRUB  
ACCESS ROAD  
HIGHWAY  
POWER LINE



2.12487

TOTAL FIELD MAGNETIC SURVEY by GEOSEARCH CONSULTANTS LTD. PLACER DOME INC.		PROJECT 387 - ONE PINE OPTION POTISSON TOWNSHIP, ONT. NTS : 52 J J 7, 8 DATE : FEB 1989 DRAWN : J.A.R.
MAP KEY A (○) C		SCALE 1:2,400 1 in. = 200 ft 0 200 400 FEET
		500
TOPOGRAPHY CLAIM POST — LINE — STREAM — SHRUB — ACCESS ROAD — BUSH ROAD — POWER LINE —		BASE LEVEL SYSTEM GEM 18 MAGNETOMETER INSTRUMENT : GEM SYSTEMS GEM 18 MAGNETOMETER 89-111-8
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**PROJECT 387 - ONE PINE OPTION  
POISSON TOWNSHIP, ONT.**

by  
GEOSURVEY CONSULTANTS LTD.  
for  
PLACER DOME INC.  
DATE : FEB 1989  
NFS : S2 J 7.8  
DRAWN : J.H.R.  
85-111-C

**MAP KEY**



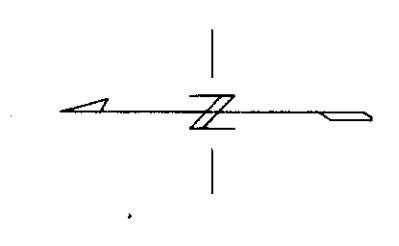
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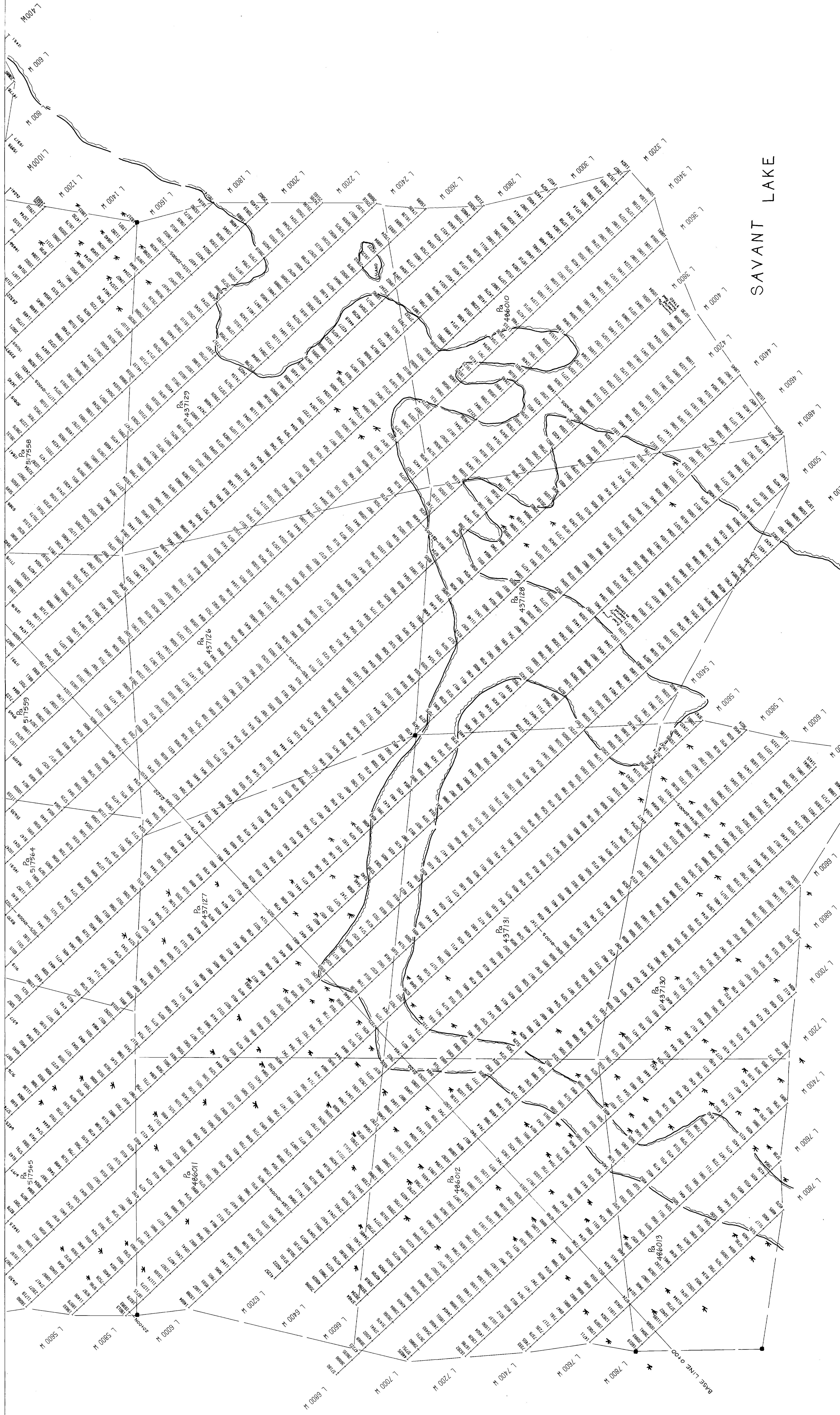
BASE LEVEL 60.000' ± RENDERED  
INSTRUMENT : GEM Systems 634-18 MILETIC  
ELEVATION : 60.000' ± 0.000'

**TOPOGRAPHY**

CLIMB POINT	—
LAKE	—
STREAM	—
SHAMP	—
ACLES ROAD	—
BUSH ROAD	—
PUMPER LINE	—



**2.12487**



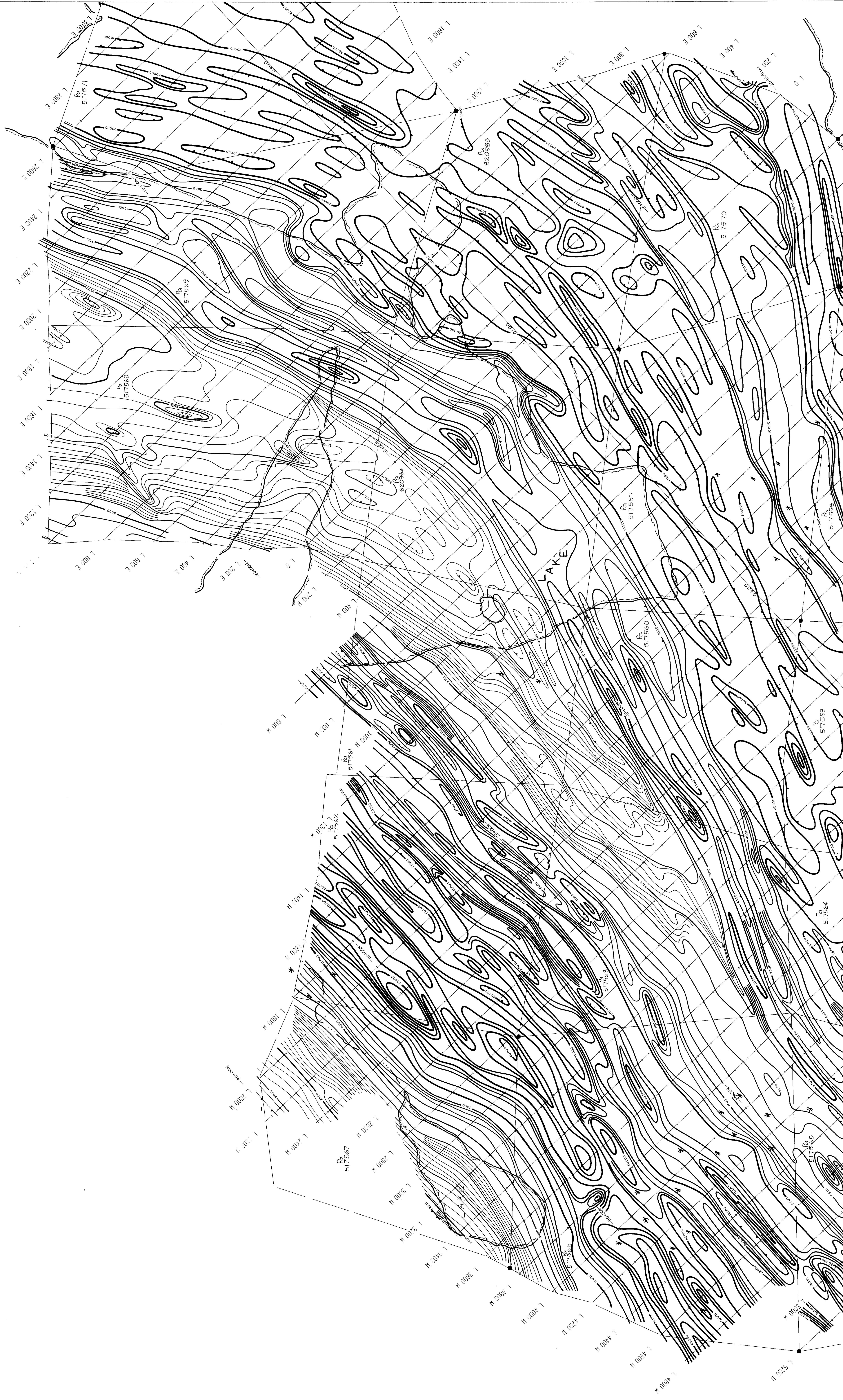
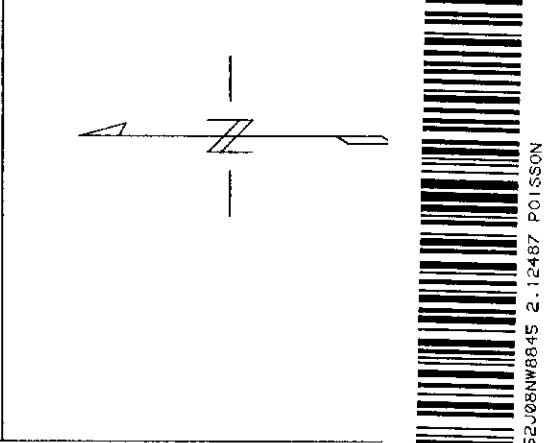
TOTAL FIELD MAGNETIC CONTOURS  
 by  
 GEOSearch CONSULTANTS LTD.  
 PLACER DOME INC.  
 for  
 PROJECT 387 - ONE PINE OPTION  
 POISSON TOWNSHIP, ONT.  
 NTS : 52 J 7, 8  
 DATE : FEB 1989  
 DRAWN : J.A.R.  
 81 - 1/2A

MAP KEY  
 A B  
 C  
 2.12487  
 SCALE 1 : 2,400  
 1 in. = 200 ft  
 0 500  
 FEET

INSTRUMENT : JEM SYSTEMS GM 18  
 60,000 nT Background Removed  
 DEPRESSION : 100 gamma contour  
 500 gamma contour  
 2000 gamma contour  
 10,000 gamma contour  
 DEPRESSION : Depression

LEGEND  
 Contour interval.....100 gammas  
 100 gamma contour.....  
 500 gamma contour.....  
 2000 gamma contour.....  
 10,000 gamma contour.....  
 Depression.....Depression

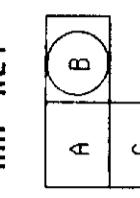
TOPOGRAPHY  
 CLAIM LINE - - -  
 LAKE  
 STREAM  
 SHIMP  
 ACCESS ROAD  
 RUSH ROAD  
 R LINE



2.12487

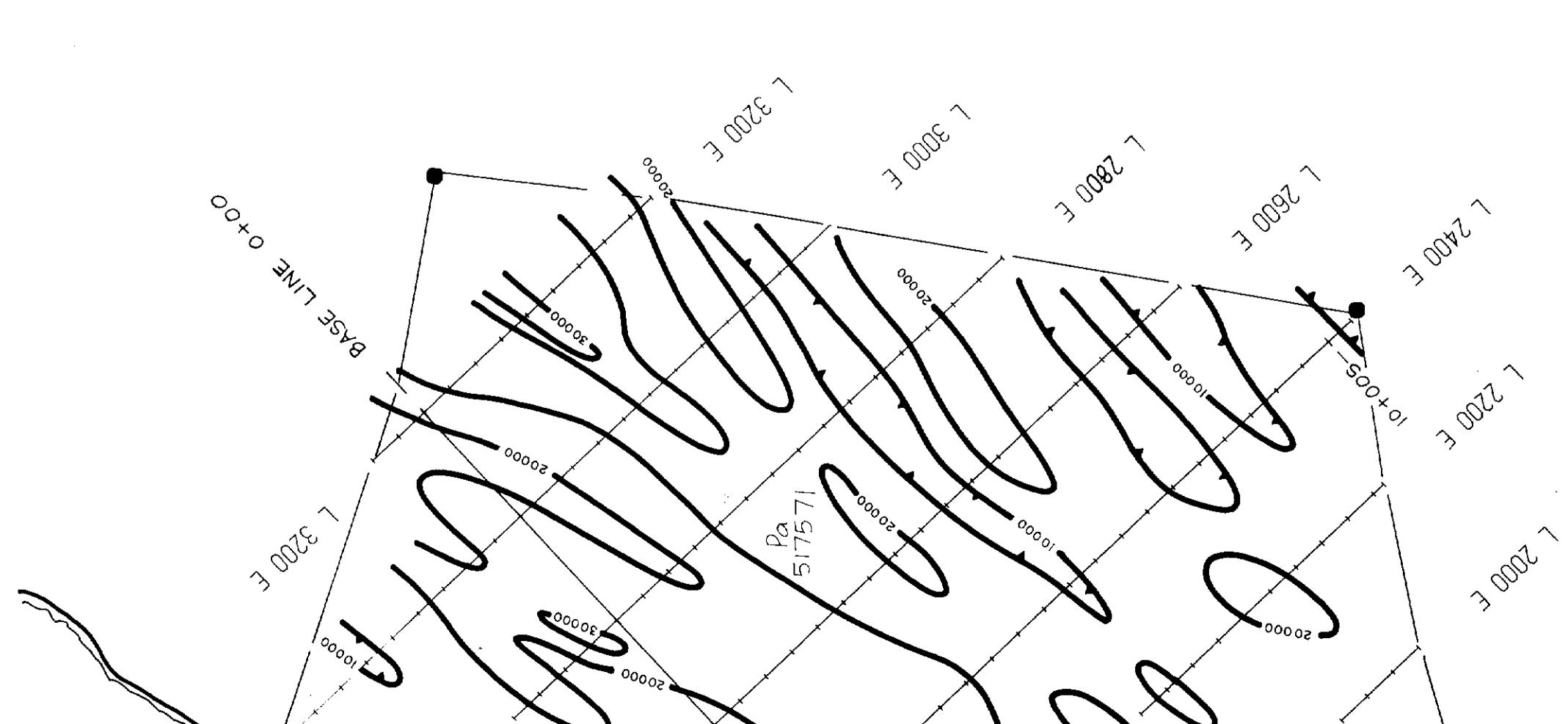
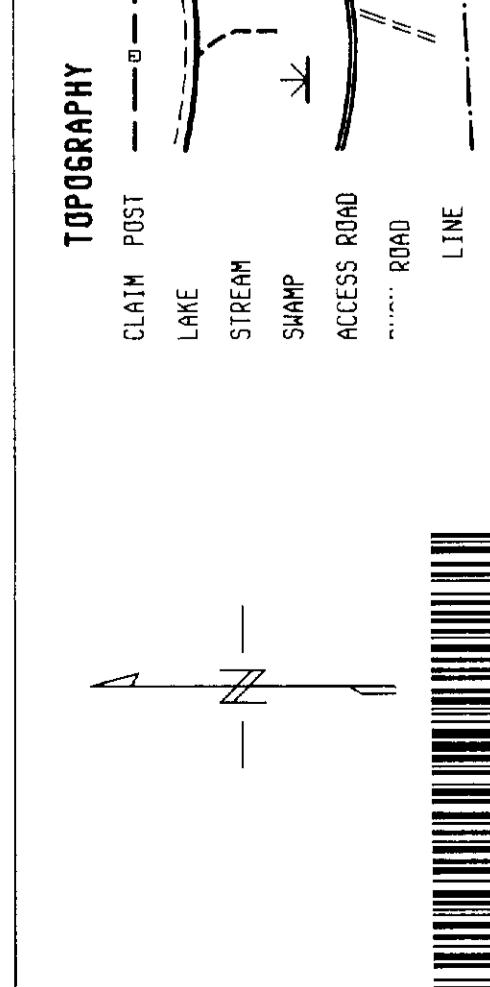
TOTAL FIELD MAGNETIC CONTOURS  
by  
GEOSEARCH CONSULTANTS LTD.  
for  
PLACER DOME INC.  
PROJECT 387 - ONE PINE OPTION  
POISSON TOWNSHIP, ONT.  
N.S. : 52 J 7, 3  
DATE : FEB 1989  
DRAWN : J.A.R.  
B9 -1.5 d

MAP KEY

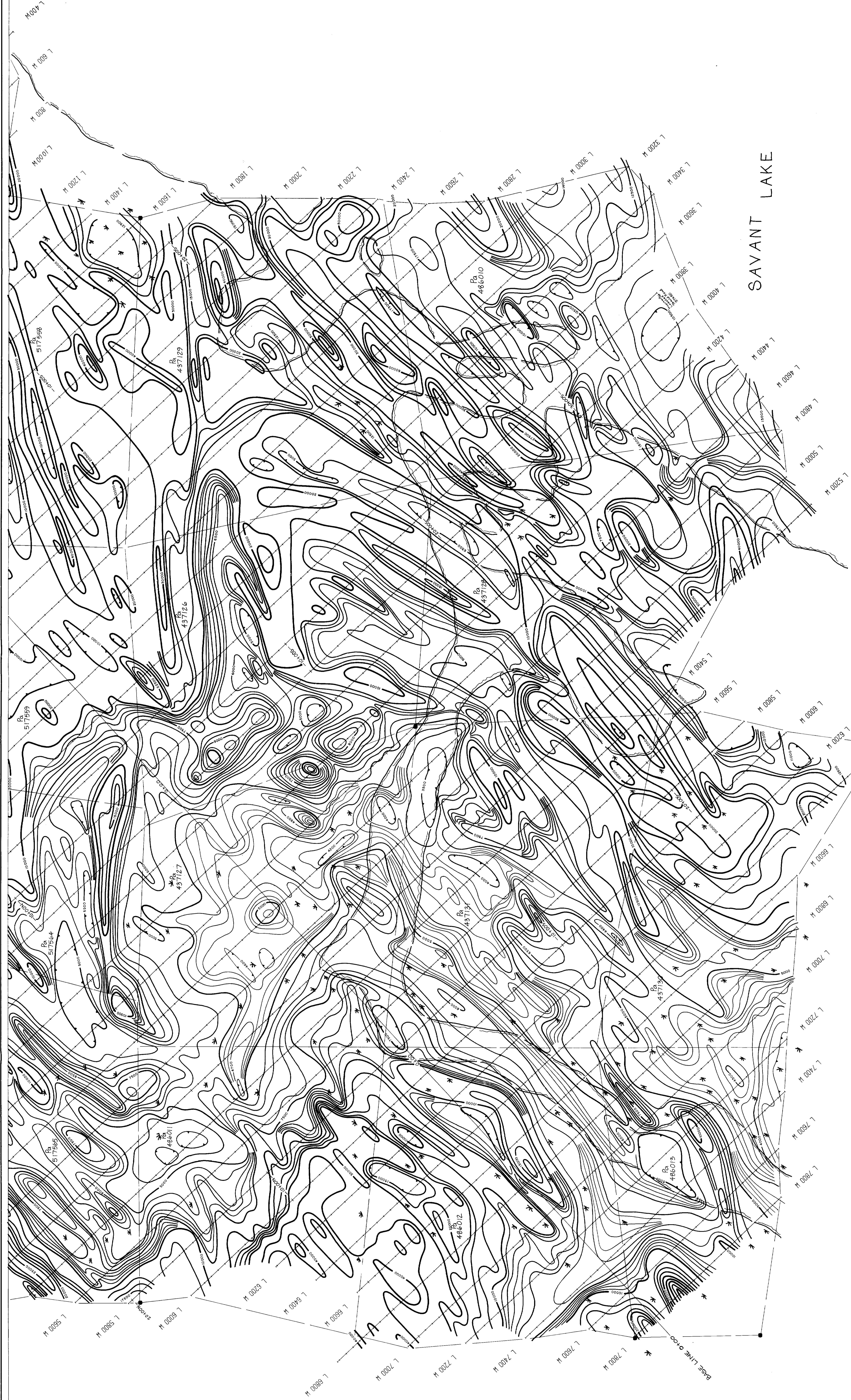


LEGEND  
Contour interval ..... 100 gammas  
100 gamma contour .....  
500 gamma contour .....  
2500 gamma contour .....  
10000 gamma contour .....  
Depression .....  
INSTRUMENT : GEM SYSTEMS GM 18  
80,000 n. Background Removed

TOPOGRAPHY  
CLAIM POST .....  
LINE .....  
STREAM .....  
SWAMP .....  
ACCESS ROAD .....  
RIDGE .....  
LINE .....  
250



2. 12487



**TOTAL FIELD MAGNETIC CONTOURS**  
by  
**GEOSEARCH CONSULTANTS LTD.**

for

**PLACER DOME INC.**

**PROJECT 387 - ONE PINE OPTION**  
**POISSON TOWNSHIP, ONT.**

**DATE : FEB 1989**  
**DRAWN : J.A.R.**

NTS : 52 J 7, 8  
89-1135

A diagram titled "MAP KEY" containing three entries: "A" with a square symbol, "B" with a rectangle symbol, and "C" with a circle symbol.

INSTRUMENT : GEM SYSTEMS GSM 18  
60,000 nT Background Removed

LEGEND	
Contour interval.....	100
100 gamma contour.....	
500 gamma contour.....	
1500 gamma contour.....	
3000 gamma contour.....	
Depression.....	

A topographic map section illustrating contour lines, a stream, a road, and a line labeled "POST". The map includes contour lines, a stream symbol, a road, and a line labeled "POST".



VLF ELECTROMAGNETIC SURVEY  
by  
GEOSEARCH CONSULTANTS LTD.  
for  
PLACER DOME INC.  
PROJECT 387 - ONE PINE OPTION  
POISSON TOWNSHIP, ONT.  
DATE : FEB 1989  
NTS : 52-17-8  
DRAWN : J.A.R.  
83-112-A

2.12487

SCALE : 1 : 2,400  
1 in. = 200 ft.  
200 ft. = 0 in.

MAP KEY



VLF PROFILES  
THREE-DIMENSIONAL  
POSTING IP  
NUK STATE, WASHINGTON, 24.8 kHz.  
INSTRUMENT: GEOTRACS CH-16  
INSTRUMENT ROAD: 4E-16  
CONDUCTOR RATIO: 1:100

TOPOGRAPHY  
CLAIM POINT  
LINE  
STREAM  
SHAMP  
ACCESS ROAD  
.LINE  
100  
200  
.LINE





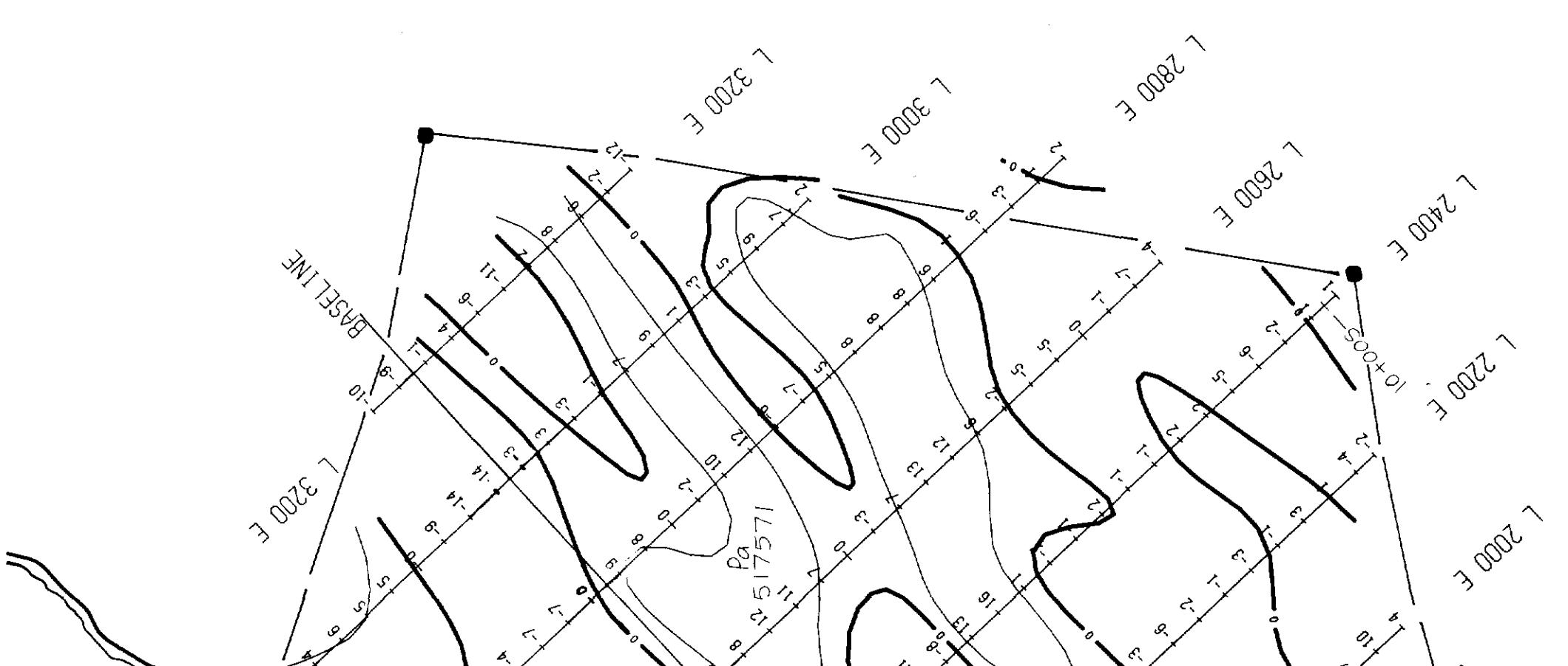
2.12487

VLF ELECTROMAGNETIC SURVEY  
by  
GEOSEARCH CONSULTANTS LTD.  
for  
PLACER DOME INC.  
PROJECT 387 - ONE PINE OPTION  
POISSON TOWNSHIP, ONT.  
NTS : 52 J 7.8  
DATE : FEB 1989  
DRAWN : J.A.R.  
RECORDED : J.A.R.

Scale 1:2,400  
1 in. = 200 ft.  
400 ft.  
200 ft.  
100 ft.  
50 ft.  
25 ft.  
12.5 ft.  
6.25 ft.  
3.125 ft.  
1.5625 ft.  
0.78125 ft.  
0.390625 ft.  
0.1953125 ft.  
0.09765625 ft.  
0.048828125 ft.  
0.0244140625 ft.  
0.01220703125 ft.  
0.006103515625 ft.  
0.0030517578125 ft.  
0.00152587890625 ft.  
0.000762939453125 ft.  
0.0003814697265625 ft.  
0.00019073486328125 ft.  
0.000095367431640625 ft.  
0.0000476837158203125 ft.  
0.00002384185791015625 ft.  
0.000011920928955078125 ft.  
0.0000059604644775390625 ft.  
0.00000298023223876953125 ft.  
0.000001490116119384765625 ft.  
0.0000007450580596923828125 ft.  
0.0000003725290298461910546875 ft.  
0.00000018626451492309552734375 ft.  
0.000000093132257461547763671875 ft.  
0.0000000465661287307738818359375 ft.  
0.00000002328306436538694091796875 ft.  
0.0000000116415321826934704589375 ft.  
0.000000005820766091346735229478125 ft.  
0.0000000029103830456733676147390625 ft.  
0.00000000145519152283668380736953125 ft.  
0.000000000727595761418331903684765625 ft.  
0.0000000003637978807091659518423828125 ft.  
0.00000000018189894035458297592119140625 ft.  
0.0000000000909494701772914879605953125 ft.  
0.00000000004547473508864574398029765625 ft.  
0.000000000022737367544322871990148828125 ft.  
0.0000000000113686837721614359950744140625 ft.  
0.00000000000568434188608071799753722265625 ft.  
0.00000000000284217094304035899876861140625 ft.  
0.00000000000142108547152017949938430553125 ft.  
0.000000000000710542735760089749692152734375 ft.  
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0.000000000000044408920985005609355755546875 ft.  
0.0000000000000222044604925028046778777734375 ft.  
0.00000000000001110223024625140233893888671875 ft.  
0.00000000000000555111512312570116946944340625 ft.  
0.000000000000002775557561562850584734721734375 ft.  
0.000000000000001387778780781425292368510859375 ft.  
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0.0000000000000003469446951953563230916277221875 ft.  
0.00000000000000017347234759767816154581386111875 ft.  
0.00000000000000008673617379883908077295183055625 ft.  
0.0000000000000000433680868994195403864759152734375 ft.  
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0.00000000000000000067762635780343031853618618055625 ft.  
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0.00000000000000000016940658945085757963404754521875 ft.  
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0.00000000000000000000000000000000481482486139487912812500116734375000010337500000103375 ft.  
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0.00000000000000000000000000000000030092655383717994564531250000559375000000559375000000559375 ft.  
0.0000000000000000000000000000000001504632774185899728125000023343750000002168750000000216875 ft.  
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0.000000000000000000000000000000000037615819354647993281250000055937500000005593750000000559375 ft.  
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0.0000000000000000000000000000000000094039548386619983281250000011673437500000093375000000093375 ft.  
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0.0000000000000000000000000000000000002938735887081874472812500000023343750000002168750000000216875 ft.  
0.0000000000000000000000000000000000001469367943540937232812500000011673437500000093375000000093375 ft.  
0.000000000000000000000000000000000000073468397177027181645645312500000055937500000005593750000000559375 ft.  
0.00000000000000000000000000000000000003673419858551358082812500000023343750000002168750000000216875 ft.  
0.000000000000000000000000000000000000018367099292756790445645312500000011673437500000093375000



2. 12487



**VLF - FRASER FILTER CONTOURS**  
by  
**GEOSEARCH CONSULTANTS LTD.**

for

**PLACER DOME INC.**

**PROJECT 387 - ONE PINE OPTI**  
**POISSON TOWNSHIP, ONT.**

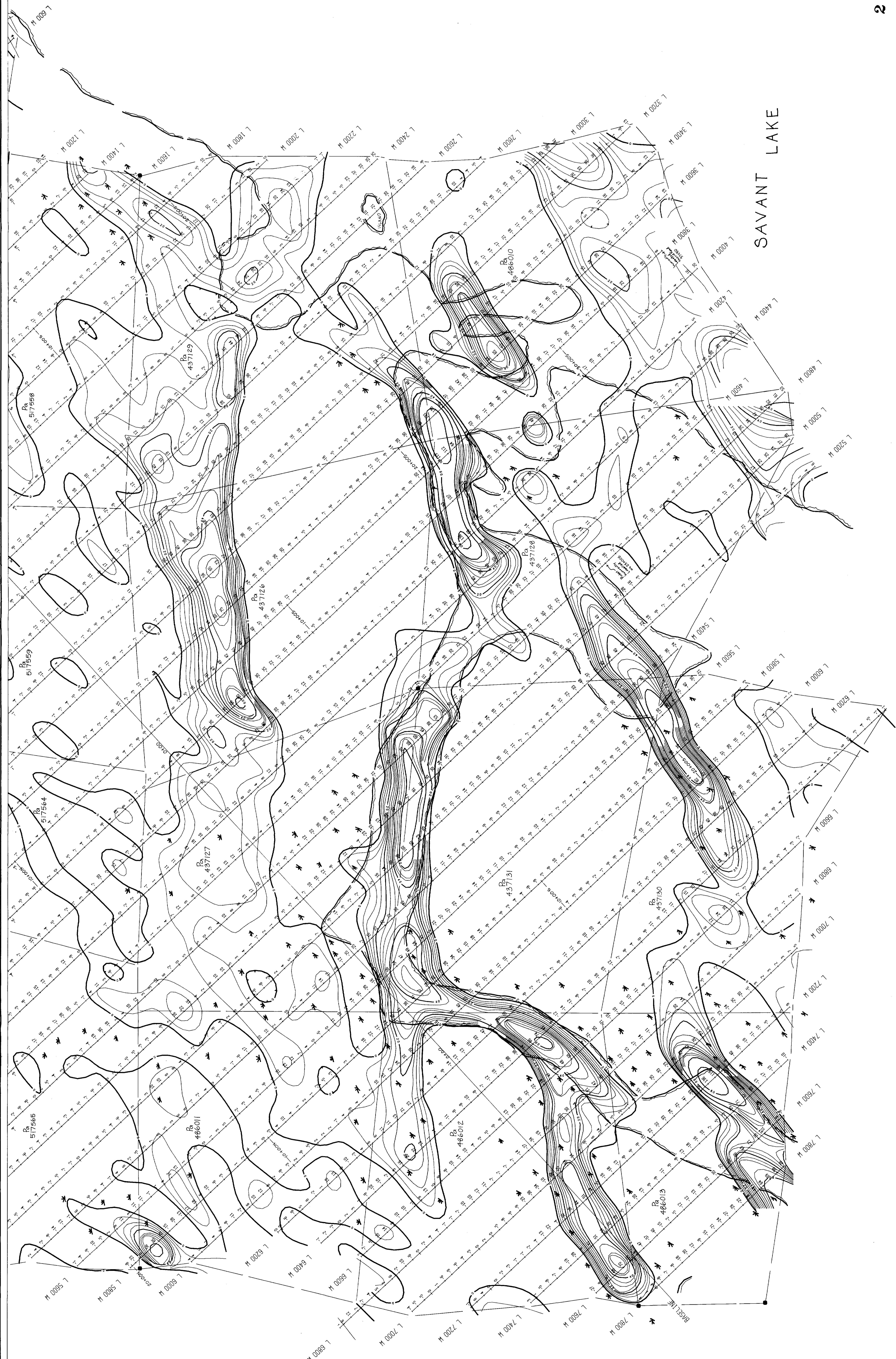
DATE : FEB 1989  
DRAWN : J.A.R.  
NTS : 52 J  
89 - 114

MAP

VLF FRASER FILTERED CONTOURS



2. 12487



VLF - FRASER FILTER CONTOURS  
by  
GEOSEARCH CONSULTANTS LTD.  
for  
PLACER DOME INC.

PROJECT 387 - ONE PINE OPTION  
POISSON TOWNSHIP, ONT.

DATE : FEB 1989  
DRAWN : J.A.R.

NTS : 52 J 7.  
89 - 114 -C

**MAP KEY**

	B
A	C

LF FRASER FILTERED CONTOURS

Dimensionless Units  
Calculated from In Phase Data  
INSTRUMENT : GEONICS EM - 16  
NLK SEATTLE WASH. 24.8 kHz.

