

SERVICES EXPLORATION SERV

765, BOUL. QUÉBEC  
C.P. 428  
ROUYN-NORANDA, P.Q.  
J9X 5C4



52N04NE0018 2.14198 BATEMAN

010

Jalonnement de Claims  
Coupage de Lignes  
Levés Géophysiques  
Levés Géologiques  
Programmes d'Exploration  
Vente d'articles  
d'exploration minière

Claim Staking  
Line Cutting  
Geophysical Surveys  
Geological Surveys  
Exploration Programmes  
Sales of mining  
exploration articles

2.14198

P L A C E R D O M E I N C

INDUCED POLARIZATION SURVEY

Claim Group # 147

Bateman Twp. Ont.

April 1991

BOOK I

RECEIVED  
JUN 25 1991  
MINING LAIUS SECTION

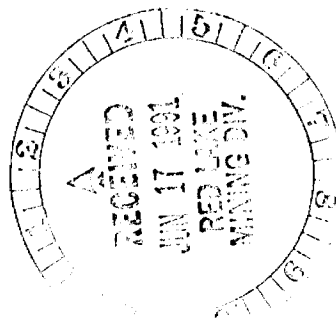


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52N04NE0018 2.14198 BATEMAN

010C

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APPENDIX

I - I.P. Survey Coverage

MAPS

1 - Coloured Phase Map	1" = 2 000'
2 - Coloured Resistivity Map	1" = 2 000'
3 - Index Map	1:50 000
4 - Geology Map	1" = 1/2 mi
5 - Location Map	1: 600 000
6 - Location Map	1: 1 725 000

I - INTRODUCTION:

At the request of PLACER DOME INC., an induced polarization survey was carried out, by Rémy Bélanger Inc., during the months of February and March, 1991, on the # 147 claim group which is located in Bateman Twp., Red Lake area, northwestern Ontario.

The induced polarization survey was undertaken to be used as a guide to the geological and structural interpretation of the area.

II - PROPERTY:

The # 147 claim group consists of a block of 48 contiguous claims which are numbered as follows:

- 542327 - 542328 - 542329 - 542330 - 542331
- 560862 - 560863 - 560864 - 560866 - 560867
- 560868 - 561172 - 561222 - 561223 - 561224
- 561225 - 561227 - 561228 - 561229 - 563131
- 563132 - 563133 - 563134 - 563135 - 563136
- 563137 - 563138 - 563139 - 563140 - 563141
- 563142 - 563143 - 563144 - 1124186 - 1124187
- 1124188 - 1124189 - 1124190 - 1124191 - 1124192
- 1124193 - 1124194 - 1153754 - 1153756 - 1153757
- 1153758 - 1153759.

III - LOCATION & ACCESSIBILITY:

The # 147 claim group is located in the central part of Bateman Twp. at an approximate distance of 18 km northeast of the town of Red Lake, Ontario.

The area is readily accessible from Balmertown by driving northeastwards along an access road for a distance of 15 Km; this road traverses the property in a northeasterly direction.

IV - INDUCED POLARIZATION SURVEY:

The induced polarization survey was carried out along part of a previously cut grid whose 3.75 mi. long base line trends northeast-southwest. Cross lines occur at every 400' intervals. The I.P. survey covered approximately 14 line miles. The I.P. coverage is indicated on appendix I of this report.

A) Instrument & Survey Specifications:

A Phoenix 1PV-4 receiver and 1PI-1 transmitter, operating at a frequency of 1.0 Hz with a generating power of 2.0 Kw, were used for the survey. The I.P. instrument indicated the resistivity in ohm-meters

and the phase difference in Mrad.

The induced polarization survey was carried out using the phase domain with a dipole - dipole electrode configuration. The electrode spacing [X] was established at 100' and readings of the multiple separations [N] were taken at N = 1,2,3, 4 and 5. The IPV-4 receiver measured the I.P. parameter (phase) with an accuracy of 0.1 mrad while the derived apparent resistivities were calculated with an accuracy of 1 ohm-metre. The data were plotted on pseudo sections - in addition, the I.P. anomalies were plotted on a plan at the scale of 1" = 400'

B) Interpretation:

1 - Phase Difference: (I.P. Anomaly)

The obtained values of phase difference are proportional to the amounts of conductive material disseminated in the bedrock, and as such, anomalous values may indicate potential exploration targets. Thus, in this instance, readings of 1 - 10 mrd could indicate 5% disseminated sulfides, 10 - 20 mrd, 15% sulfides, 20 - 30 mrd, 25% sulfides and 30 - 50 mrd, 40% sulfides.

Consequently, the I.P. survey has outlined 8 different anomalous zones which vary in width

from 50' to 1,500'. These anomalous zones generally trend parallel to the base line and to the local stratigraphy.

The I.P. anomalous zones are briefly described as follows:

Zone 1:

Zone # 1 occurs west of the base line between cross line 8 N and 80 N - it varies in width from 100' to 500' and has disseminated sulfide content from 5 to 40%. The highest concentration of sulfides occurs on line 32 N at 19 W and the widest zone has been observed on line 56 E, between 10 W and 15 W.

Zone 1-A:

Zone 1-A is located south of zone 1 between line 8N and 20 N - its best response has been observed along line 16 N between 11 W and 13 W. The sulfide content varies between 5 and 15%.

Zone 1-B:

This zone has been observed on line 72 N only - it lies in a siliceous zone containing up to 20% sulfides

Zone 2 & 2-A:

Zone # 2 has been observed on all of the surveyed lines - it occurs east of the base line as a 200' wide zone between line 8 N and line 84 N. This zone widens and merges with zone 2-A from line 56 N to line 84 N. The widest and highest concentration of sulfides has been observed on lines 68 N, 72 N, and 76 N. On cross line 68 N, the merger of the 2 zones forms a zone which is 1 500' wide containing up to 40% sulfides. The highest concentration of sulfides on any given line occurs on line 76 N between 4+50 E and 12+50 E.

Zone 3:

This zone begins on cross line 48 N at 19 E; it widens as it extends northwards. The highest concentration of sulfides occurs on line 76 E between 19 E and 25 E - it becomes relatively weak on line 84 E.

Zone 5:

Zone # 5 is continuous from line 16 N to line 84 N. Its best values have been obtained along line 16 N between 35 E and 38 E. Zone # 5 merges with zone # 6 in the vicinity of 74N.

Zone 6:

This I.P. anomaly has been observed from line 32 N to line 48 N in the vicinity of T.L. 40 E - it appears to be faulted - the northern segment begins on line 48 N at 38 E and merges with zone # 5 in the vicinity of 74 N. Its best response has been obtained along line 48 N, between 40 E and 43 E. On this line a content of 30% sulfides is indicated.

2 - Resistivity:

A wide zone of high resistivity has been outlined flanking the eastern side of I.P. anomaly 1 and 1-A. The highest resistivity values have been obtained on lines 8 N and 16 N.

Another important area of high resistivity occurs between line 40 N and 88 N - it appears to be nestled between I.P. anomalies # 2 and 3



I.P. anomaly # 5 is not associated with areas of high resistivity, however, narrow bands of high resistivity are associated with I.P. anomaly # 6.

Areas of high resistivity readings are probably caused by the presence of cherty sediments.

V - CONCLUSIONS & RECOMMENDATIONS:

The phase difference of the survey has outlined 8 important zones containing up to 40 % disseminated sulfides. These zones are extensive and trend in a direction parallel to the local stratigraphy.

The resistivity survey indicates large areas of highly siliceous material which is interbedded with the sulfide bands.

A geological survey should be undertaken to evaluate the economic importance of the disseminated sulfide horizons before initiating a drill program.

Respectfully submitted:

E. Chartré: Edl Ch

April 26, 1991

Qual 2.1415

A P P E N D I X I

SURVEY COVERAGE

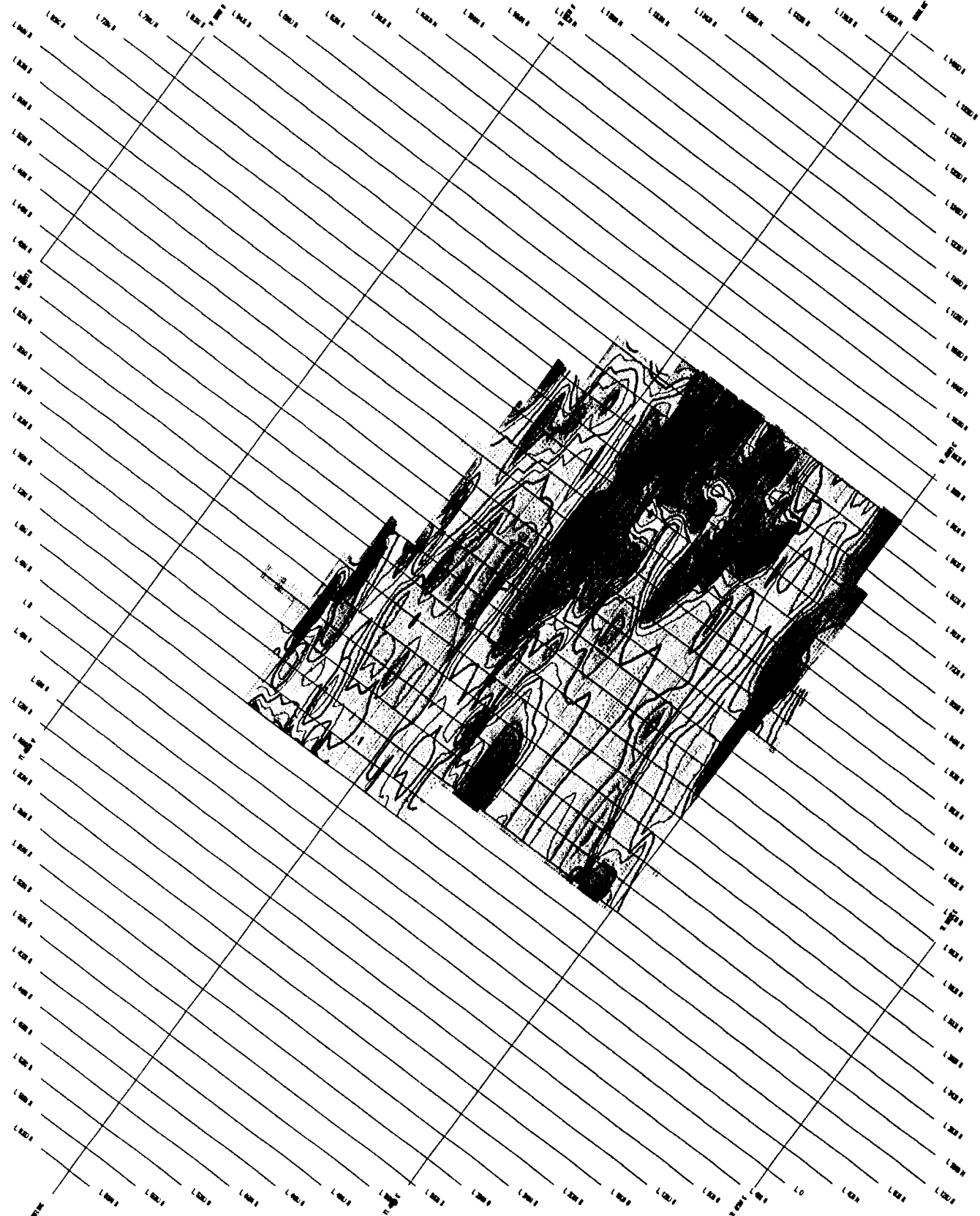
<u>LINE</u>	<u>FROM</u>	<u>TO</u>	<u>LENGTH</u>
8 N	9 E	21 W	3 000'
16 N	43 E	31 E	1 200'
16 N	39 E	22 W	6 100'
24 N	17 W	30 W	2 300'
24 N	43 E	19 W	6 200'
32 N	43 E	21 W	6 400'
40 N	43 E	20 W	6 300'
48 N	48 E	11 W	5 900'
56 N	44 E	16 W	6 000'
64 N	45 E	15 W	6 000'
68 N	42 E	18 E	2 400'
68 N	20 E	1 E	1 900'
72 N	42 E	14 W	5 600'
76 N	41 E	2 W	4 300'
80 N	40 E	9 W	4 900'
84 N	41 E	0	<u>4 100'</u>
	TOTAL		<u>72 600'</u>

CLAIM BLOCK # 147

● Ceman Twp. Ont.

Phase in Mrad N = 4

1" = 2 000'

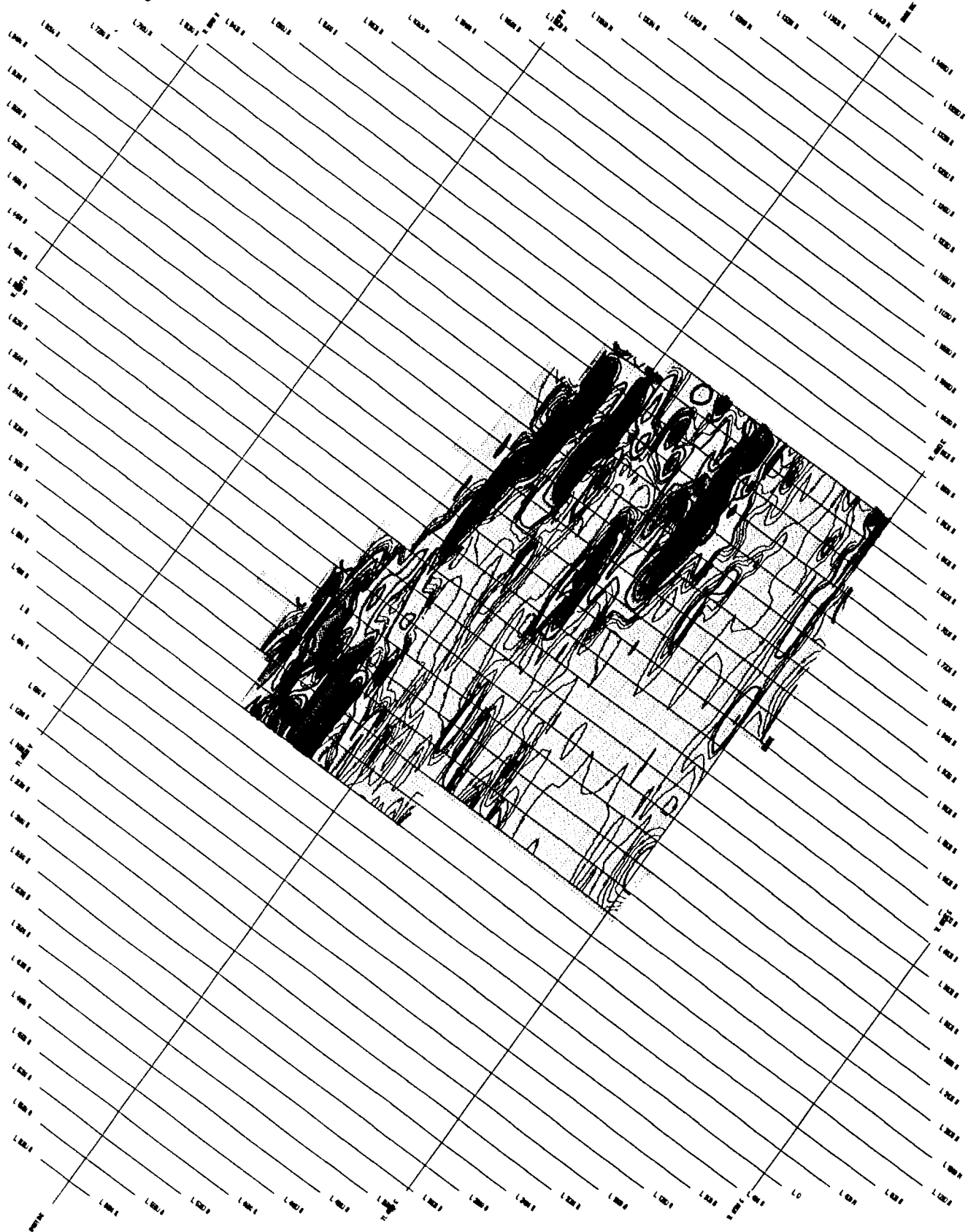


CLAIM BLOCK # 147

• eman Twp. Ont.

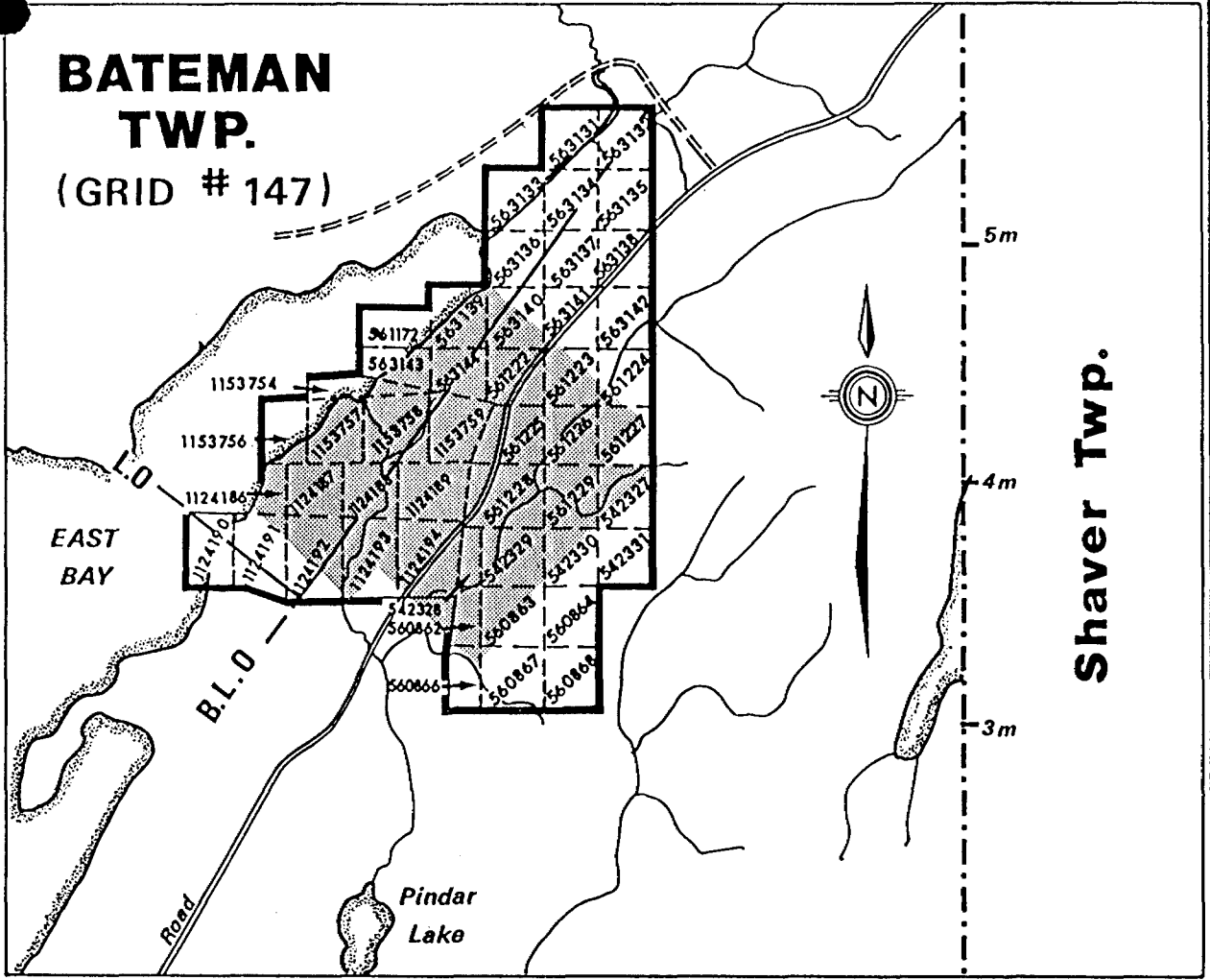
Resistivity Ohm/ft N = 4

1" = 2 000'



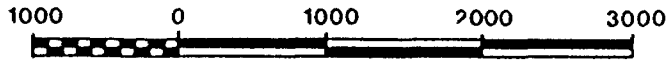
# BATEMAN TWP.

(GRID # 147)

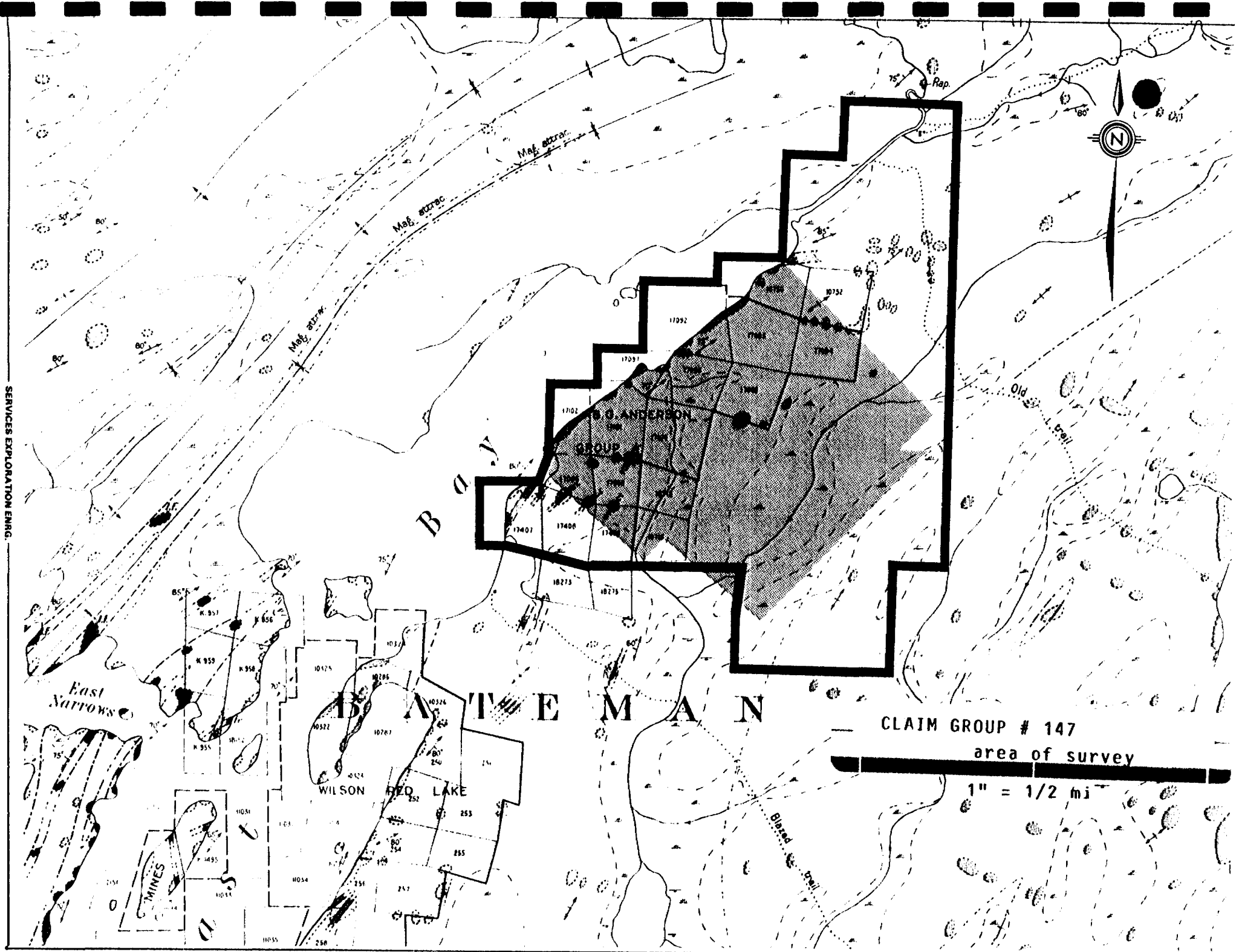


## INDEX MAP

SCALE: 1:50,000



METRES

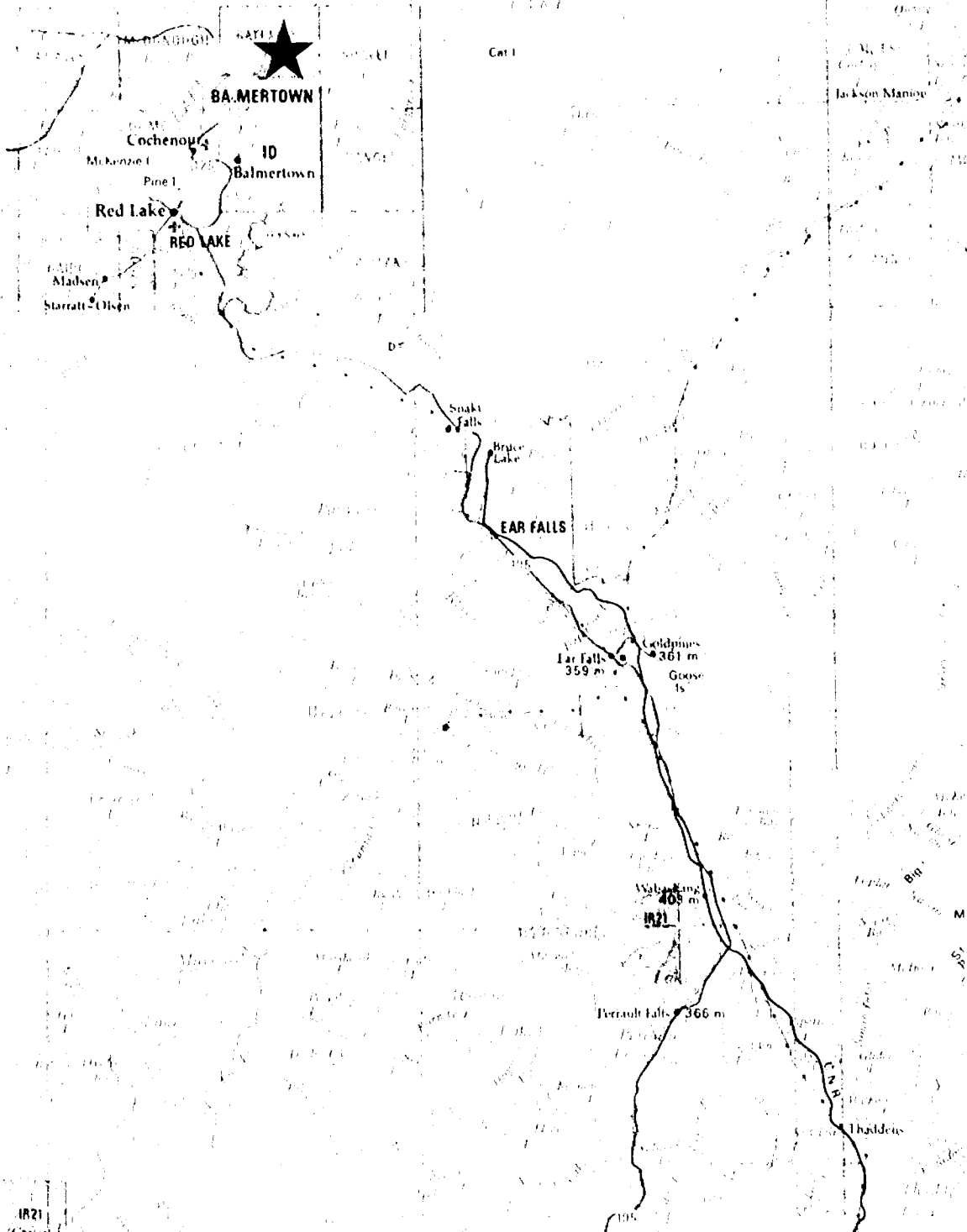


CLAIM GROUP # 147  
area of survey

1" = 1/2 mi



PLACER DOME INC. CLAIM GROUP  
# 147



810  
IR21



North Star Lake

Red Lake

Mat Down

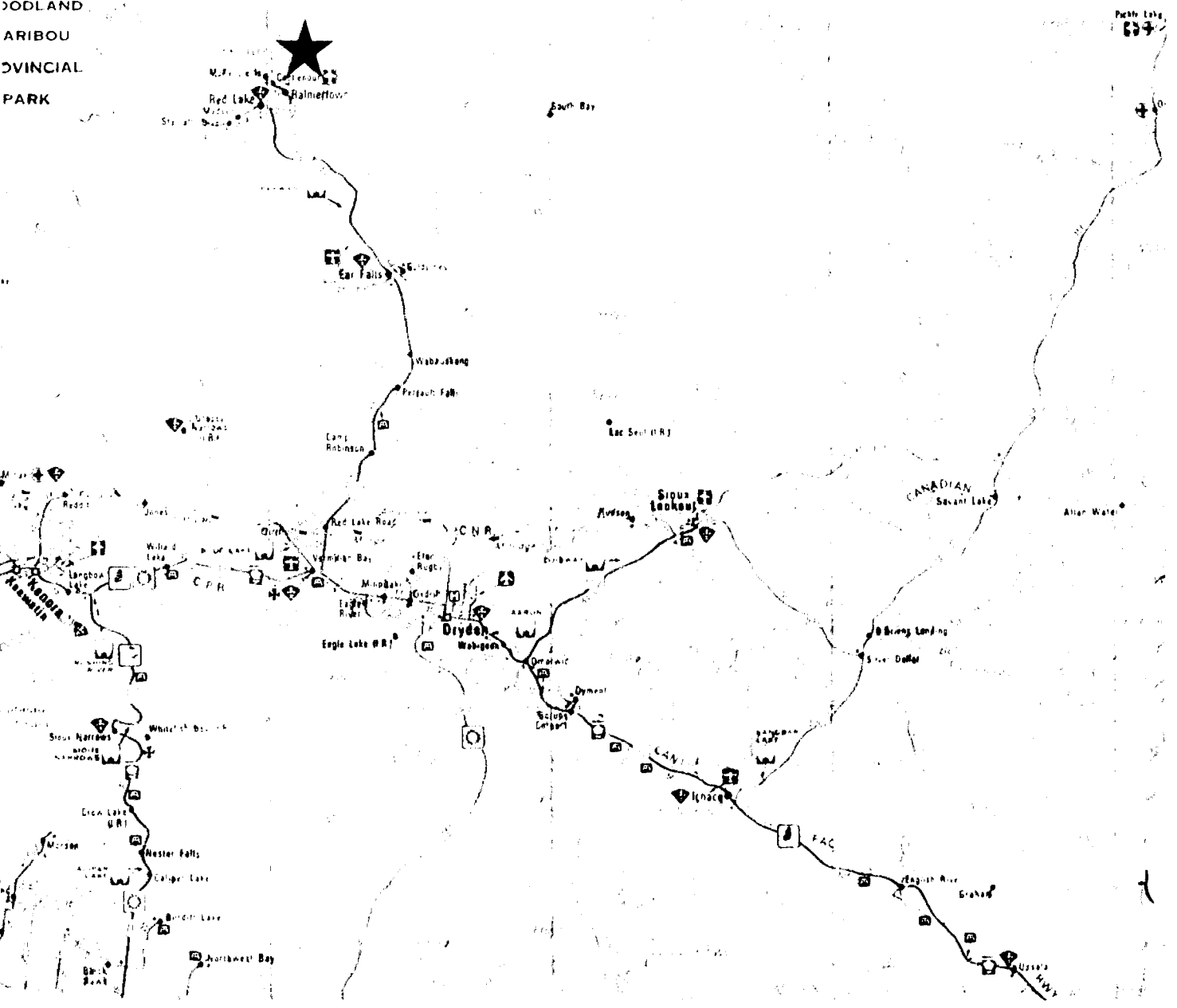
Pikangikum (R)

Car Lake (R)



PLACER DOME INC. CLAIM GROUP # 147

ODLAND  
ARIBOU  
VINCIAL  
PARK





765, BOUL. QUÉBEC  
C.P. 428  
ROUYN-NORANDA, P.Q.  
J9X 5C4

Dessin et Reproduction  
Jalonnement de Claims  
Coupage de Lignes  
Levés Géophysiques  
Levés Géologiques  
Programmes d'Exploration  
Vente d'articles  
d'exploration minière

Drafting and Reproduction Services  
Claim Staking  
Line Cutting  
Geophysical Surveys  
Geological Surveys  
Exploration Programmes  
Sales of mining  
exploration articles

P L A C E R D O M E I N C

INDUCED POLARIZATION SURVEY

Claim Group # 147

Bateman Twp. Ont.

April 1991

BOOK II



Ontario



52N04NE0018 2.14198 BATEMAN

900

Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines

Geoscience Approvals Section  
Mining Lands Branch  
159 Cedar Street, 4th Floor  
Sudbury, Ontario  
P3E 6A5

November 21, 1991

Toll Free: 1-800-465-3880  
Telephone: (705) 670-7264  
Fax: (705) 670-7262

Mining Recorder  
Ministry of Northern Development  
and Mines  
Ontario Government Building  
Box 324  
Red Lake, Ontario  
POV 2M0

Our File: 2.14198  
Transaction #: W.9120.05000

Dear Sir/Madam:

RE: APPROVAL OF GEOPHYSICAL WORK ON MINING CLAIMS KRL. 542327 ET AL.  
IN BATEMAN TOWNSHIP.

The deficiencies in the Induced Polarization Survey submitted under section 14 of the Mining Act Regulations have been rectified and are approved as of the above date.

The Assessment Work Credits on the attached credit form (schedule) replaces the one filed with the original submission. Please alter the record sheets accordingly.

If you have any questions please contact Clive Stephenson at (705) 670-7251.

Yours sincerely,

Ron C. Gashinski  
Senior Manager, Mining Lands Branch  
Mines and Minerals Division

CDS  
CDS/jl

Enclosures:

cc: J.M. Morganti  
Toronto, Ontario

Luba Vcislo  
Placer Dome Inc.

Resident Geologist  
Red Lake, Ontario

✓ Assessment Files Office  
Toronto, Ontario

SCHEDULE  
REPORT OF WORK CONDUCTED  
AFTER RECORDING CLAIM

Work Report Number for Applying Reserve	CLAIM NUMBER	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	KRL 542327	1	130.00	400.00	0.00	0.00
	KRL 542328	1	652.00	400.00	252.00	0.00
	KRL 542329	1	652.00	400.00	252.00	0.00
	KRL 542330	1	195.00	400.00	0.00	0.00
	KRL 542331	1	0.00	400.00	0.00	0.00
	KRL 560862	1	652.00	400.00	252.00	0.00
	KRL 560863	1	260.00	400.00	0.00	0.00
	KRL 560864	1	0.00	400.00	0.00	0.00
	KRL 560866	1	0.00	400.00	0.00	0.00
	KRL 560867	1	0.00	400.00	0.00	0.00
	KRL 560868	1	0.00	400.00	0.00	0.00
	KRL 561172	1	130.00	400.00	0.00	0.00
	KRL 561222	1	652.00	200.00	452.00	0.00
	KRL 561223	1	652.00	0.00	652.00	0.00
	KRL 561224	1	326.00	0.00	326.00	0.00
	KRL 561225	1	652.00	0.00	652.00	0.00
	KRL 561226	1	652.00	0.00	652.00	0.00
	KRL 561227	1	489.00	0.00	489.00	0.00
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	KRL 561229	1	652.00	0.00	652.00	0.00
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	KRL 563140	1	521.00	0.00	521.00	0.00
	KRL 563141	1	163.00	0.00	163.00	0.00
	KRL 563143	1	521.00	0.00	521.00	0.00
	KRL 563144	1	652.00	0.00	652.00	0.00
	KRL 1124186	1	391.00	800.00	0.00	0.00
	KRL 1124187	1	652.00	800.00	0.00	0.00
	KRL 1124188	1	652.00	800.00	0.00	0.00
	KRL 1124189	1	652.00	800.00	0.00	0.00
	KRL 1124190	1	0.00	800.00	0.00	0.00
	KRL 1124191	1	100.00	800.00	0.00	0.00

SCHEDULE  
REPORT OF WORK CONDUCTED  
AFTER RECORDING CLAIM

Work Report Number for Applying Reserve	CLAIM NUMBER	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	KRL 1124192	1	392.00	800.00	0.00	0.00
	KRL 1124193	1	489.00	800.00	0.00	0.00
	KRL 1124194	1	652.00	800.00	0.00	0.00
	KRL 1153754	1	326.00	800.00	0.00	0.00
	KRL 1153756	1	260.00	800.00	0.00	0.00
	KRL 1153757	1	521.00	800.00	0.00	0.00
	KRL 1153758	1	652.00	800.00	0.00	0.00
	KRL 1153759	1	652.00	800.00	0.00	0.00
*** Total ***			16200.00	16200.00	7694.00	0.00



**Report of Work Conducted After Recording Claim**

Transaction Number  
**W9120.05000**

Project 147

Mining Act

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

**2.14.198**

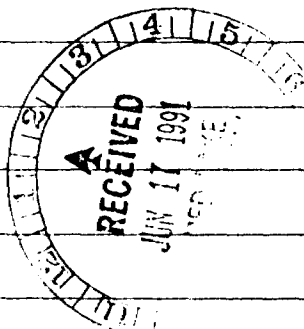
- Instructions:**
- Please type or print and submit in duplicate.
  - Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
  - A separate copy of this form must be completed for each Work Group.
  - Technical reports and maps must accompany this form in duplicate.
  - A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s) Placer Dome Inc.		Client No. 182746
Address P.O. Box 350, Suite 3500, IBM Tower, TD Centre Toronto, Ont. M5K 1N3		Telephone No. 416 868-6060
Mining Division Red Lake	Township/Area Bateman Township	M or G Plan No. M-2139
Dates Work Performed From: February 1991		To: March 1991

**Work Performed (Check One Work Group Only)**

Work Group	Type
Geotechnical Survey	Geophysical - Induced Polarization Survey
Physical Work, Including Drilling	
Rehabilitation	
Other Authorized Work	
Assays	
Assignment from Reserve	

**RECEIVED**  
JUL 22 1991  
MINING LANDS SECTION



Total Assessment Work Claimed on the Attached Statement of Costs \$ \$16,200.00

**Note:** The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

**Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)**

Name	Address
Services Exploration Enr.	765 Boul. Quebec, C.P. 428
Remy Belanger Inc.	Rouyn-Noranda, Quebec J9X 5C4

(attach a schedule if necessary)

**Certification of Beneficial Interest \* See Note No. 1 on reverse side**

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date June 12, 1991	Recorded Holder or Agent (Signature) <i>M. Luba Vcislo</i> M. Luba Vcislo, Land Manager
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------	-----------------------------------------------------------------------------------------------

**Certification of Work Report**

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.		
Name and Address of Person Certifying J.M. Morganti, Exploration Manager P.O. Box 350, Suite 3500, IBM Tower, TD Centre, Toronto, Ontario M5K 1N3		
Telephone No. 416 868-6060	Date June 12, 1991	Certified By (Signature) <i>J.M. Morganti</i>

**For Office Use Only**

Total Value Cr. Recorded <b>\$16,200.00</b>	Date Recorded <i>July 5, 1991</i>	Mining Recorder <i>[Signature]</i>	Received Stamp <b>RECEIVED</b> JUL 5 1991 RED LAKE MINING DIV.
	Deemed Approval Date <i>October 3, 1991</i>	Date Approved Mining Recorder	
	Date Notice for Amendments Sent <i>June 24, 1991</i>		

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
	KRL542327	1
	KRL542328	1
	KRL542329	1
	KRL542330	1
	KRL542331	1
	KRL560862 ✓	1
	KRL560863 ✓	1
	KRL560864	1
	KRL560866	1
	KRL560867	1
	KRL560868	1
	KRL561172	1
	KRL561222	1
	KRL1124186	1
	KRL1124187	1
	KRL1124188 <i>SP</i>	1
	KRL1124189 <i>SP</i>	1
	KRL1124190 <i>SP</i>	1
	KRL1124191 <i>SP</i>	1
	KRL1124192 <i>SP</i>	1
	KRL1124193 <i>SP</i>	1
	KRL1124194 <i>SP</i>	1
	KRL1153754	1
	KRL1153756	1
	KRL1153757	1
	KRL1153758	1
	KRL1153759	1
	27 claims	
Total Number of Claims		

Value of Assessment Work Done on this Claim	Value Applied to this Claim
	\$400.00
	400.00
	400.00
	400.00
	400.00
	400.00
	400.00
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	800.00
	800.00
	800.00
	800.00
	800.00
	800.00
Total Value Work Done	Total Value Work Applied
	\$16,200.00

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
Total Assigned From	Total Reserve

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

- Credits are to be cut back starting with the claim listed last, working backwards.
- Credits are to be cut back equally over all claims contained in this report of work.
- Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

**Note 1:** Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

**Note 2:** If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented land at the time the work was performed.

Signature \_\_\_\_\_ Date \_\_\_\_\_

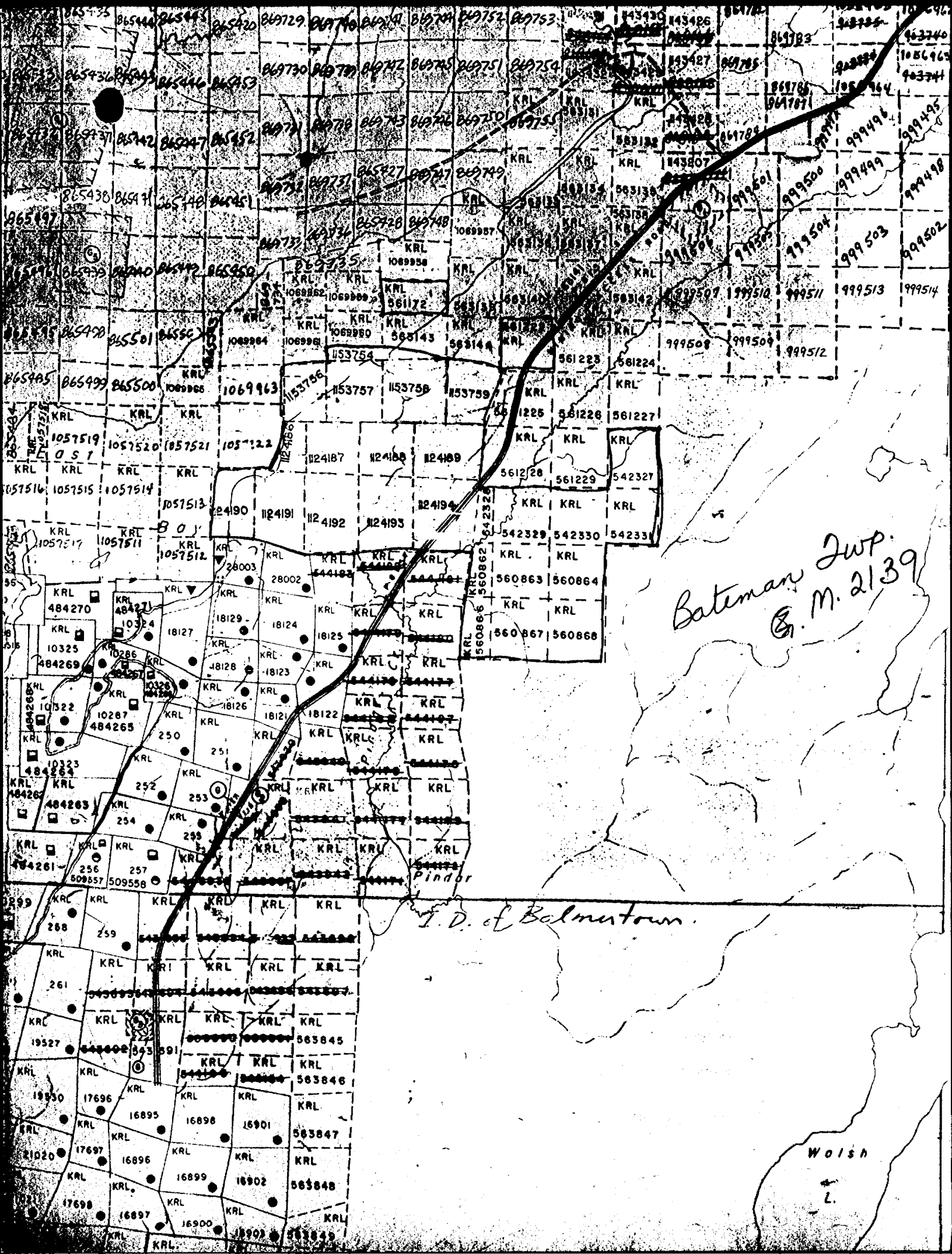
SCHEDULE  
REPORT OF WORK CONDUCTED  
AFTER RECORDING CLAIM

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	KRL 542329	1	652.00	400.00	252.00	0.00
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	KRL 542331	1	0.00	400.00	0.00	0.00
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	KRL 560863	1	260.00	400.00	0.00	0.00
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	KRL 560867	1	0.00	400.00	0.00	0.00
	KRL 560868	1	0.00	400.00	0.00	0.00
	KRL 561172	1	130.00	400.00	0.00	0.00
	KRL 561222	1	652.00	200.00	452.00	0.00
	KRL 561223	1	652.00	0.00	652.00	0.00
	KRL 561224	1	326.00	0.00	326.00	0.00
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	KRL 561227	1	489.00	0.00	489.00	0.00
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	KRL 563143	1	521.00	0.00	521.00	0.00
	KRL 563144	1	652.00	0.00	652.00	0.00
	KRL 1124186	1	391.00	800.00	0.00	0.00
	KRL 1124187	1	652.00	800.00	0.00	0.00
	KRL 1124188	1	652.00	800.00	0.00	0.00
	KRL 1124189	1	652.00	800.00	0.00	0.00
	KRL 1124190	1	0.00	800.00	0.00	0.00
	KRL 1124191	1	100.00	800.00	0.00	0.00

SCHEDULE  
REPORT OF WORK CONDUCTED  
AFTER RECORDING CLAIM

Work Report Number for Applying Reserve	CLAIM NUMBER	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	KRL 1124192	1	392.00	800.00	0.00	0.00
	KRL 1124193	1	489.00	800.00	0.00	0.00
	KRL 1124194	1	652.00	800.00	0.00	0.00
	KRL 1153754	1	326.00	800.00	0.00	0.00
	KRL 1153756	1	260.00	800.00	0.00	0.00
	KRL 1153757	1	521.00	800.00	0.00	0.00
	KRL 1153758	1	652.00	800.00	0.00	0.00
	KRL 1153759	1	652.00	800.00	0.00	0.00
*** Total ***			16200.00	16200.00	7694.00	0.00





Bateman JWP.  
E. M. 2139

I.D. of Belmontown

Woish  
L.

Map containing numerous parcel numbers and 'KRL' labels. Visible numbers include: 865438, 865491, 865440, 865451, 865497, 865499, 865500, 865501, 865502, 865503, 865504, 865505, 865506, 865507, 865508, 865509, 865510, 865511, 865512, 865513, 865514, 865515, 865516, 865517, 865518, 865519, 865520, 865521, 865522, 865523, 865524, 865525, 865526, 865527, 865528, 865529, 865530, 865531, 865532, 865533, 865534, 865535, 865536, 865537, 865538, 865539, 865540, 865541, 865542, 865543, 865544, 865545, 865546, 865547, 865548, 865549, 865550, 865551, 865552, 865553, 865554, 865555, 865556, 865557, 865558, 865559, 865560, 865561, 865562, 865563, 865564, 865565, 865566, 865567, 865568, 865569, 865570, 865571, 865572, 865573, 865574, 865575, 865576, 865577, 865578, 865579, 865580, 865581, 865582, 865583, 865584, 865585, 865586, 865587, 865588, 865589, 865590, 865591, 865592, 865593, 865594, 865595, 865596, 865597, 865598, 865599, 865600, 865601, 865602, 865603, 865604, 865605, 865606, 865607, 865608, 865609, 865610, 865611, 865612, 865613, 865614, 865615, 865616, 865617, 865618, 865619, 865620, 865621, 865622, 865623, 865624, 865625, 865626, 865627, 865628, 865629, 865630, 865631, 865632, 865633, 865634, 865635, 865636, 865637, 865638, 865639, 865640, 865641, 865642, 865643, 865644, 865645, 865646, 865647, 865648, 865649, 865650, 865651, 865652, 865653, 865654, 865655, 865656, 865657, 865658, 865659, 865660, 865661, 865662, 865663, 865664, 865665, 865666, 865667, 865668, 865669, 865670, 865671, 865672, 865673, 865674, 865675, 865676, 865677, 865678, 865679, 865680, 865681, 865682, 865683, 865684, 865685, 865686, 865687, 865688, 865689, 865690, 865691, 865692, 865693, 865694, 865695, 865696, 865697, 865698, 865699, 865700, 865701, 865702, 865703, 865704, 865705, 865706, 865707, 865708, 865709, 865710, 865711, 865712, 865713, 865714, 865715, 865716, 865717, 865718, 865719, 865720, 865721, 865722, 865723, 865724, 865725, 865726, 865727, 865728, 865729, 865730, 865731, 865732, 865733, 865734, 865735, 865736, 865737, 865738, 865739, 865740, 865741, 865742, 865743, 865744, 865745, 865746, 865747, 865748, 865749, 865750, 865751, 865752, 865753, 865754, 865755, 865756, 865757, 865758, 865759, 865760, 865761, 865762, 865763, 865764, 865765, 865766, 865767, 865768, 865769, 865770, 865771, 865772, 865773, 865774, 865775, 865776, 865777, 865778, 865779, 865780, 865781, 865782, 865783, 865784, 865785, 865786, 865787, 865788, 865789, 865790, 865791, 865792, 865793, 865794, 865795, 865796, 865797, 865798, 865799, 865800, 865801, 865802, 865803, 865804, 865805, 865806, 865807, 865808, 865809, 865810, 865811, 865812, 865813, 865814, 865815, 865816, 865817, 865818, 865819, 865820, 865821, 865822, 865823, 865824, 865825, 865826, 865827, 865828, 865829, 865830, 865831, 865832, 865833, 865834, 865835, 865836, 865837, 865838, 865839, 865840, 865841, 865842, 865843, 865844, 865845, 865846, 865847, 865848, 865849, 865850, 865851, 865852, 865853, 865854, 865855, 865856, 865857, 865858, 865859, 865860, 865861, 865862, 865863, 865864, 865865, 865866, 865867, 865868, 865869, 865870, 865871, 865872, 865873, 865874, 865875, 865876, 865877, 865878, 865879, 865880, 865881, 865882, 865883, 865884, 865885, 865886, 865887, 865888, 865889, 865890, 865891, 865892, 865893, 865894, 865895, 865896, 865897, 865898, 865899, 865900, 865901, 865902, 865903, 865904, 865905, 865906, 865907, 865908, 865909, 865910, 865911, 865912, 865913, 865914, 865915, 865916, 865917, 865918, 865919, 865920, 865921, 865922, 865923, 865924, 865925, 865926, 865927, 865928, 865929, 865930, 865931, 865932, 865933, 865934, 865935, 865936, 865937, 865938, 865939, 865940, 865941, 865942, 865943, 865944, 865945, 865946, 865947, 865948, 865949, 865950, 865951, 865952, 865953, 865954, 865955, 865956, 865957, 865958, 865959, 865960, 865961, 865962, 865963, 865964, 865965, 865966, 865967, 865968, 865969, 865970, 865971, 865972, 865973, 865974, 865975, 865976, 865977, 865978, 865979, 865980, 865981, 865982, 865983, 865984, 865985, 865986, 865987, 865988, 865989, 865990, 865991, 865992, 865993, 865994, 865995, 865996, 865997, 865998, 865999, 866000.

# BATEMAN

DISTRICT OF KENORA  
PATRICIA PORTION  
RED LAKE  
MINING DIVISION

SCALE: 1-INCH 40 CHAINS

### DISPOSITION OF CROWN LANDS

- PATENT, SURFACE AND MINING RIGHTS ----- ●
- " SURFACE RIGHTS ONLY ----- ○
- " MINING RIGHTS ONLY ----- ◐
- LEASE, SURFACE AND MINING RIGHTS ----- ■
- " SURFACE RIGHTS ONLY ----- □
- " MINING RIGHTS ONLY ----- ▽
- LICENCE OF OCCUPATION ----- ▽
- ROADS -----
- IMPROVED ROADS -----
- KING'S HIGHWAYS -----
- RAILWAYS -----
- POWER LINES -----
- MARSH OR MUSKEG -----
- MINES -----
- CANCELLED -----

### NOTES

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

### SAND & GRAVEL

- Ⓢ MTC PIT N<sup>o</sup> IE-13
- Ⓢ MTC " " IE-11
- Ⓢ MTC " " IE-12
- Ⓢ QUARRY PERMIT
- Ⓢ MNR GRAVEL RESERVE IE10
- Ⓢ MNR GRAVEL RESERVE IE11

No OPEN GROUND SEPT. 22/86

### FOREST ACTIVITY INFORMATION

THIS TOWNSHIP/AREA FALLS WITHIN THE  
RED LAKE CROWN

AND MAY BE SUBJECT TO FORESTRY OPERATIONS.  
THE M.N.R. UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT:

P.O. BOX 5003  
RED LAKE, ONTARIO P0V 2M0  
(807) 727-2253

PLAN NO. **M.2139**

ONTARIO  
MINISTRY OF NATURAL RESOURCES

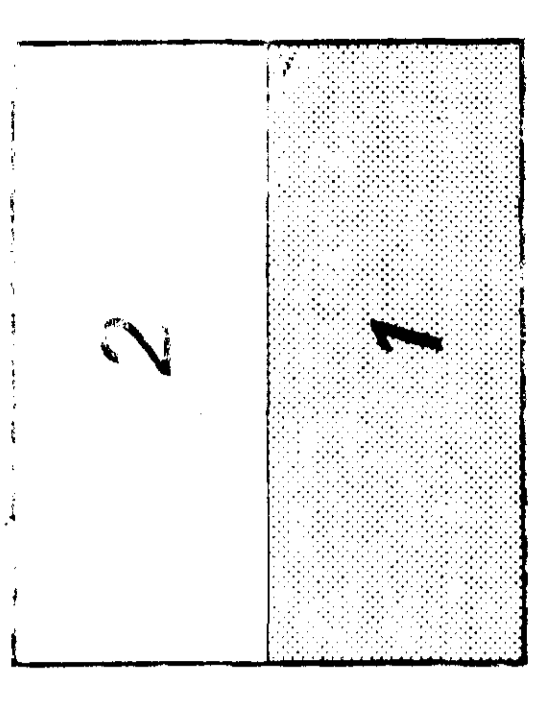
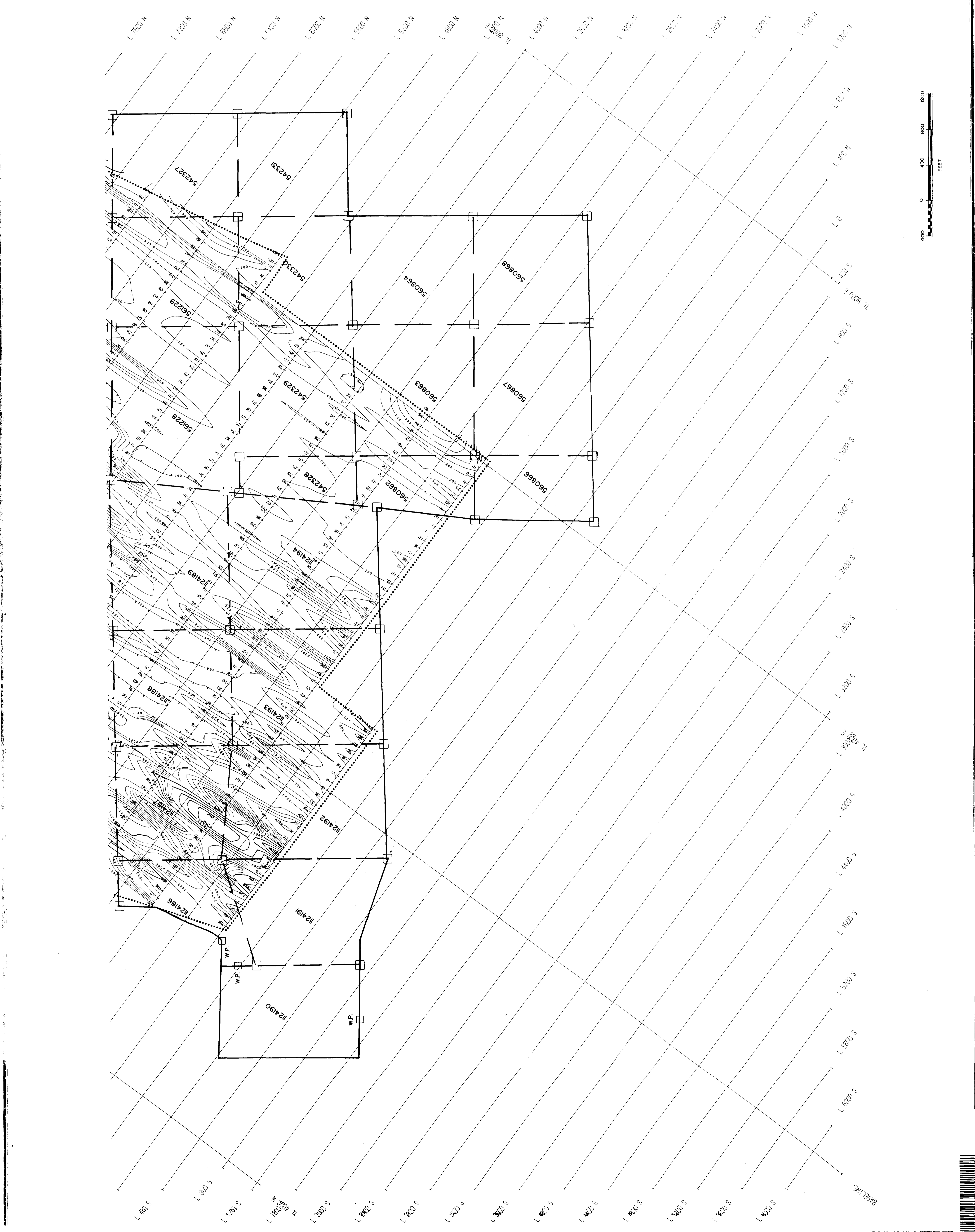
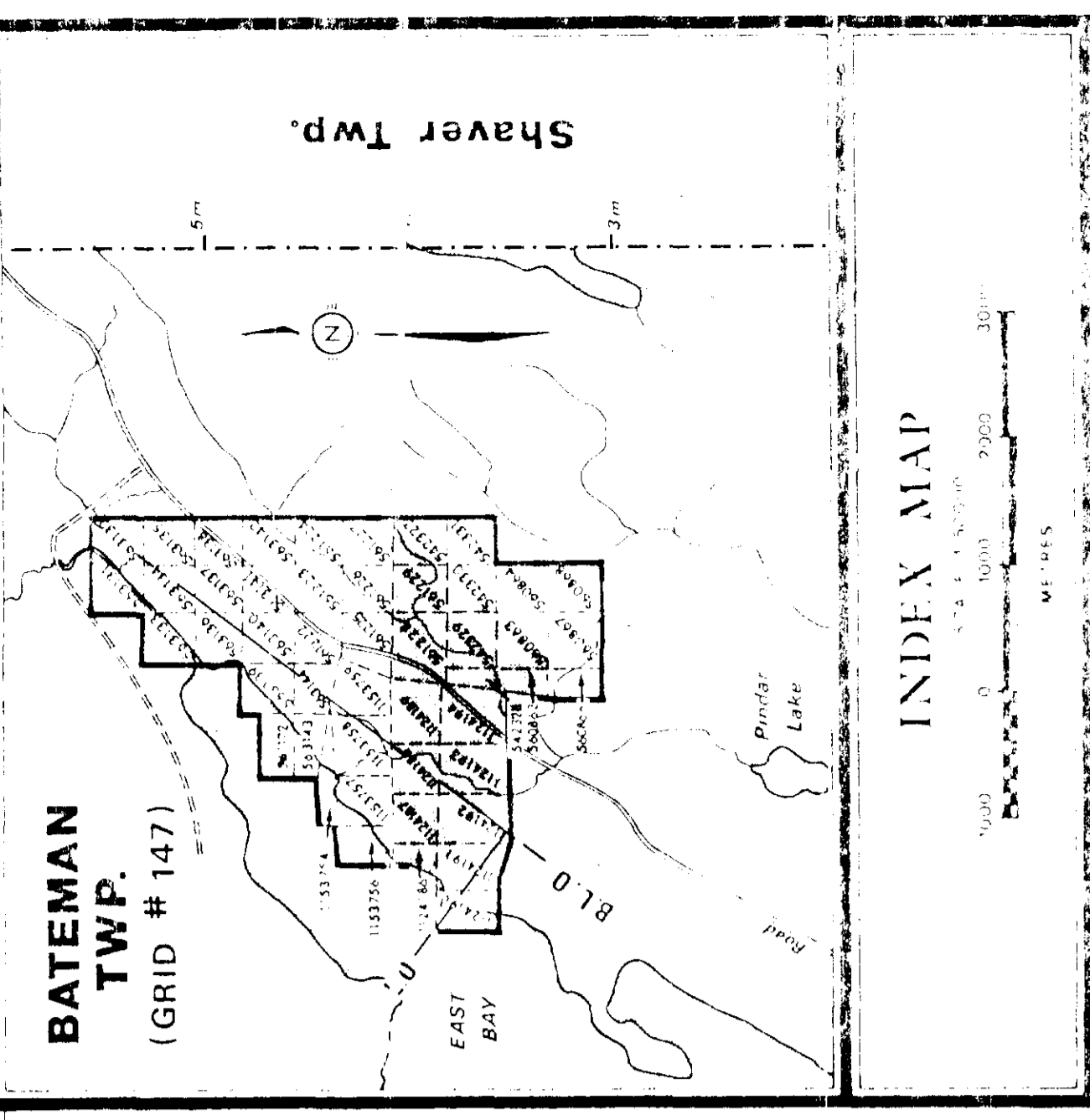
SURVEYS AND MAPPING BRANCH

McDonough Twp. M.2182

Shaver Twp. M.2202

Balmer Twp. M.2137





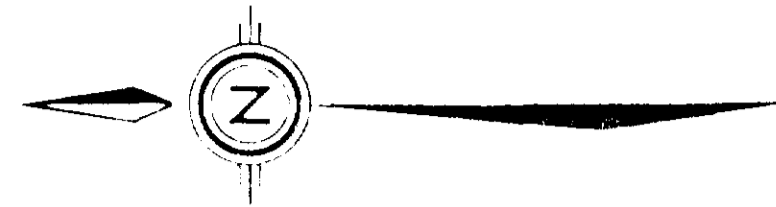
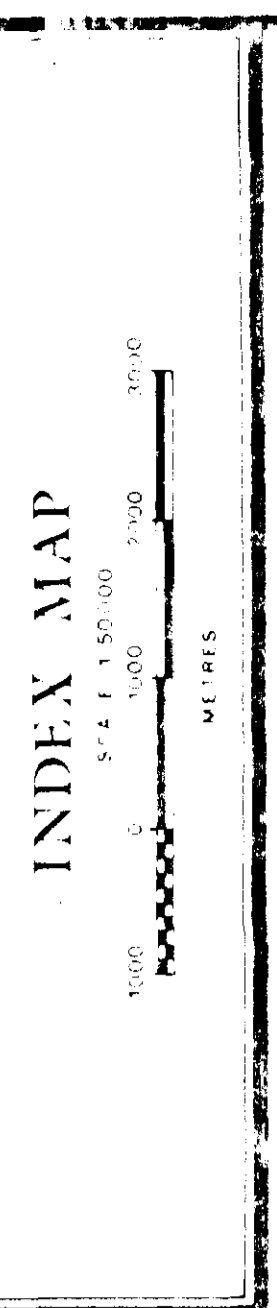
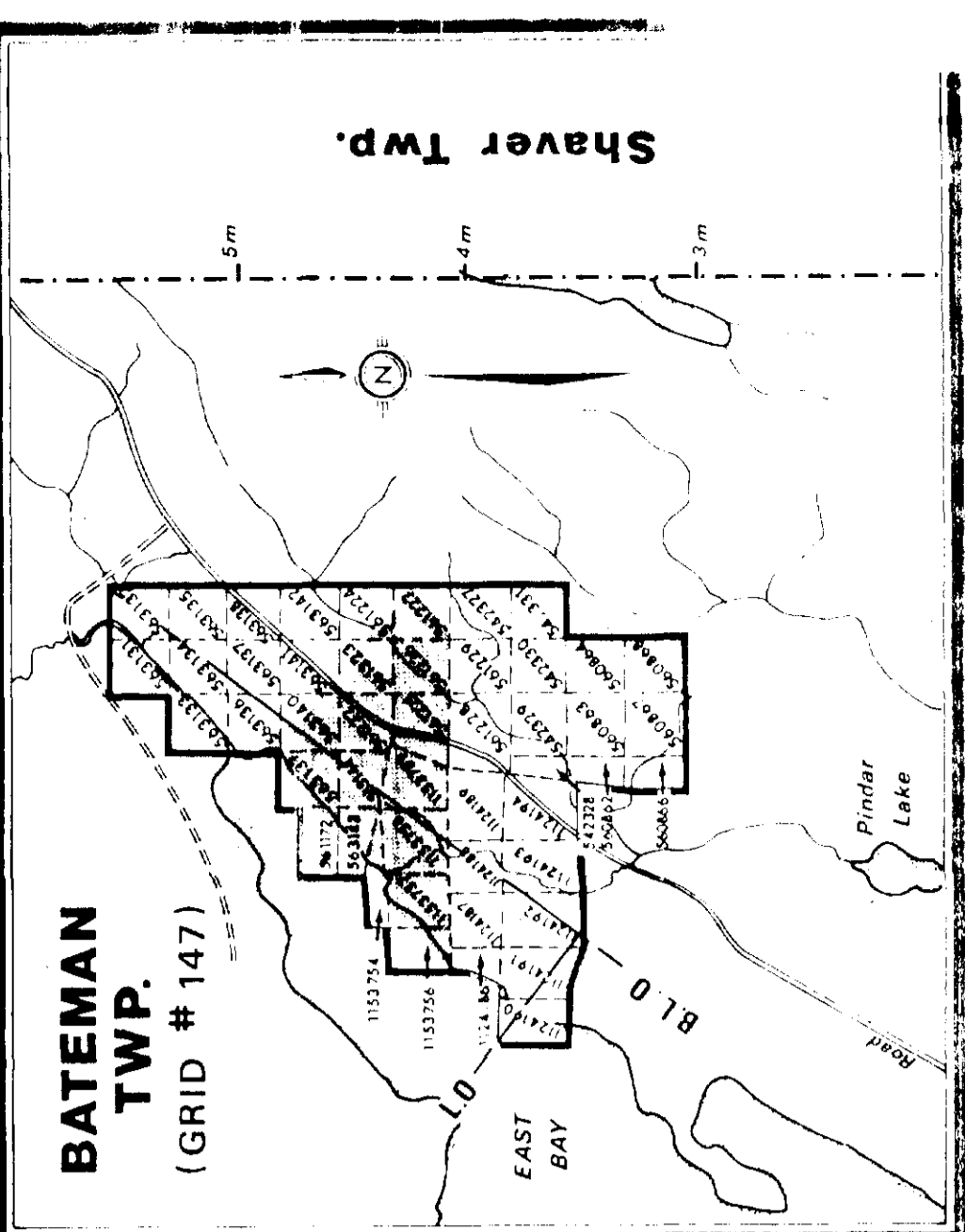
Induced Polarization Survey  
Resistivity N=4

FOR  
**PLACER DOME INC.**

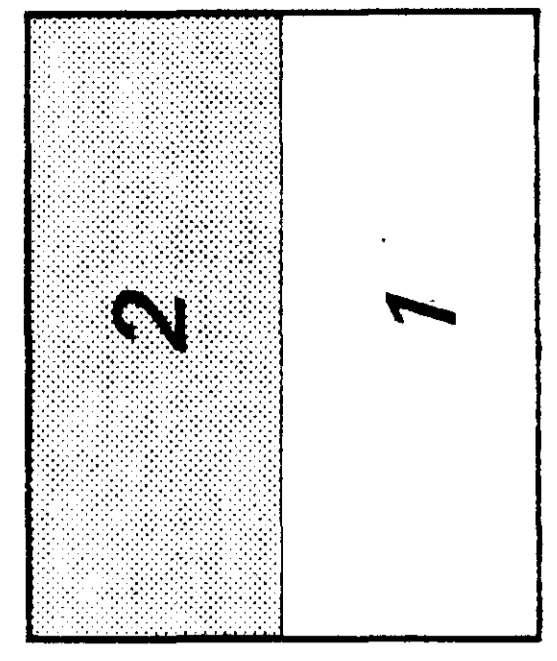
PROJECT: **EAST BAY Grid # 147** 1 of 2  
SURVEYED BY: R. BELANGER DATE: April 91  
DRAWN BY: LEONARDY SERVICES SCALE: 1:500

Instrument: 1P/4  
PHOENIX - 1PT1

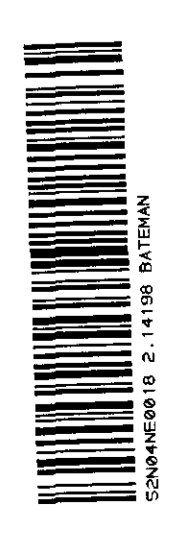
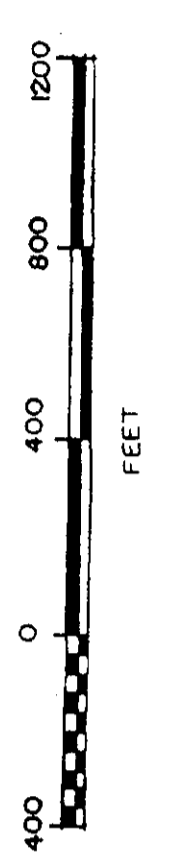
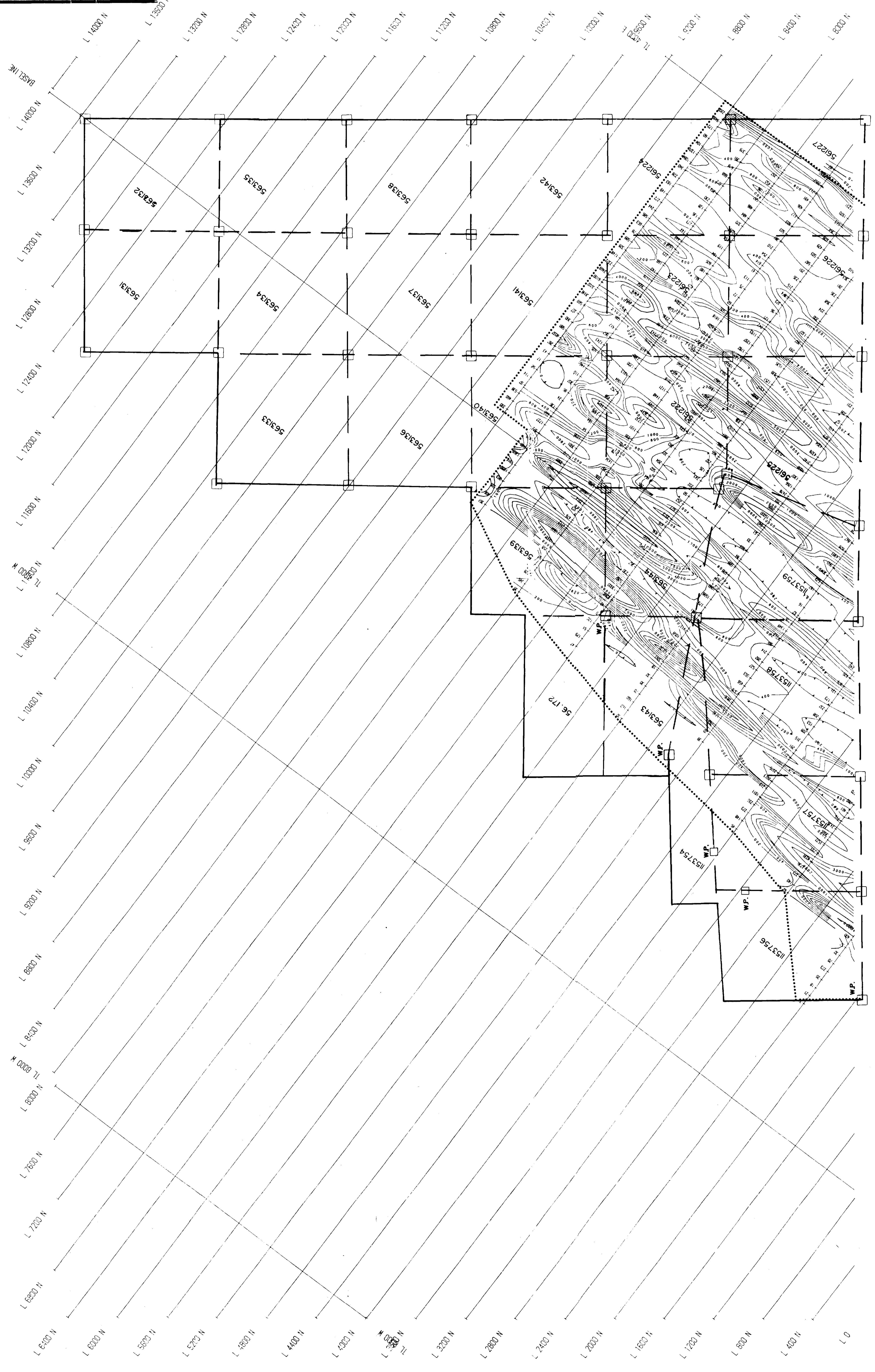
Twp. BATEMAN

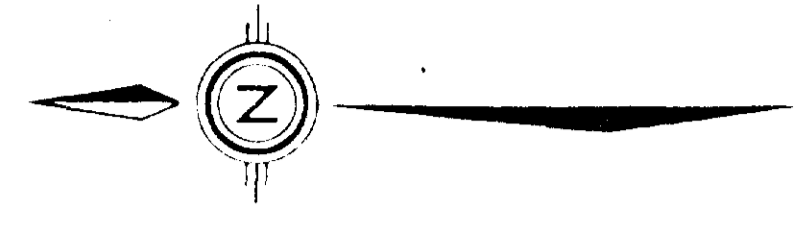
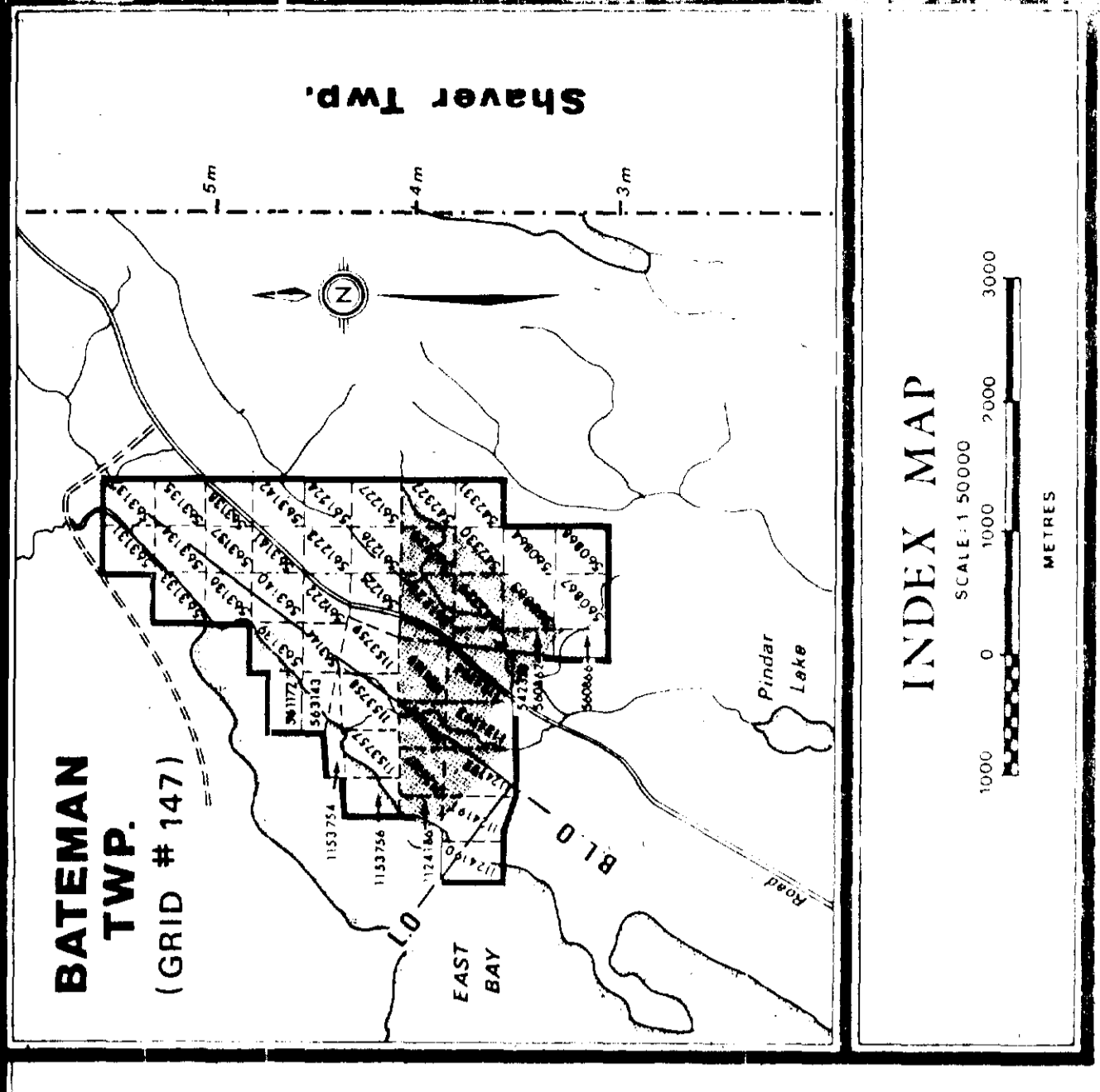


..... Outline of area covered by survey

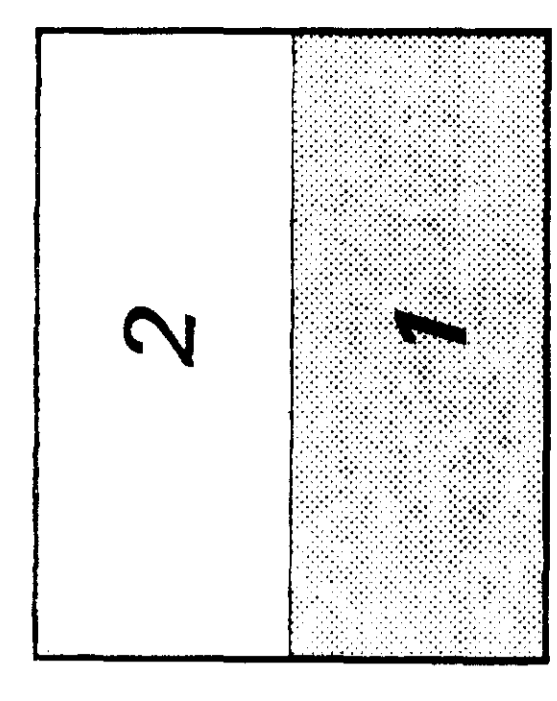


Induced Polarization Survey  
Resistivity N=4  
FOR  
**PLACER DOME INC.**  
PROJECT **EAST BAY Grid # 147** 2 of 2  
SURVEYED BY: R. BELANGER DATE: April 91  
DRAWN BY: EXPLORATION SERVICES SCALE: 1:400  
INSTRUMENT: IPV  
PHOENIX 111  
REMY BELANGER INC.  
WP: 2/2/2000





..... Outline of area covered by survey

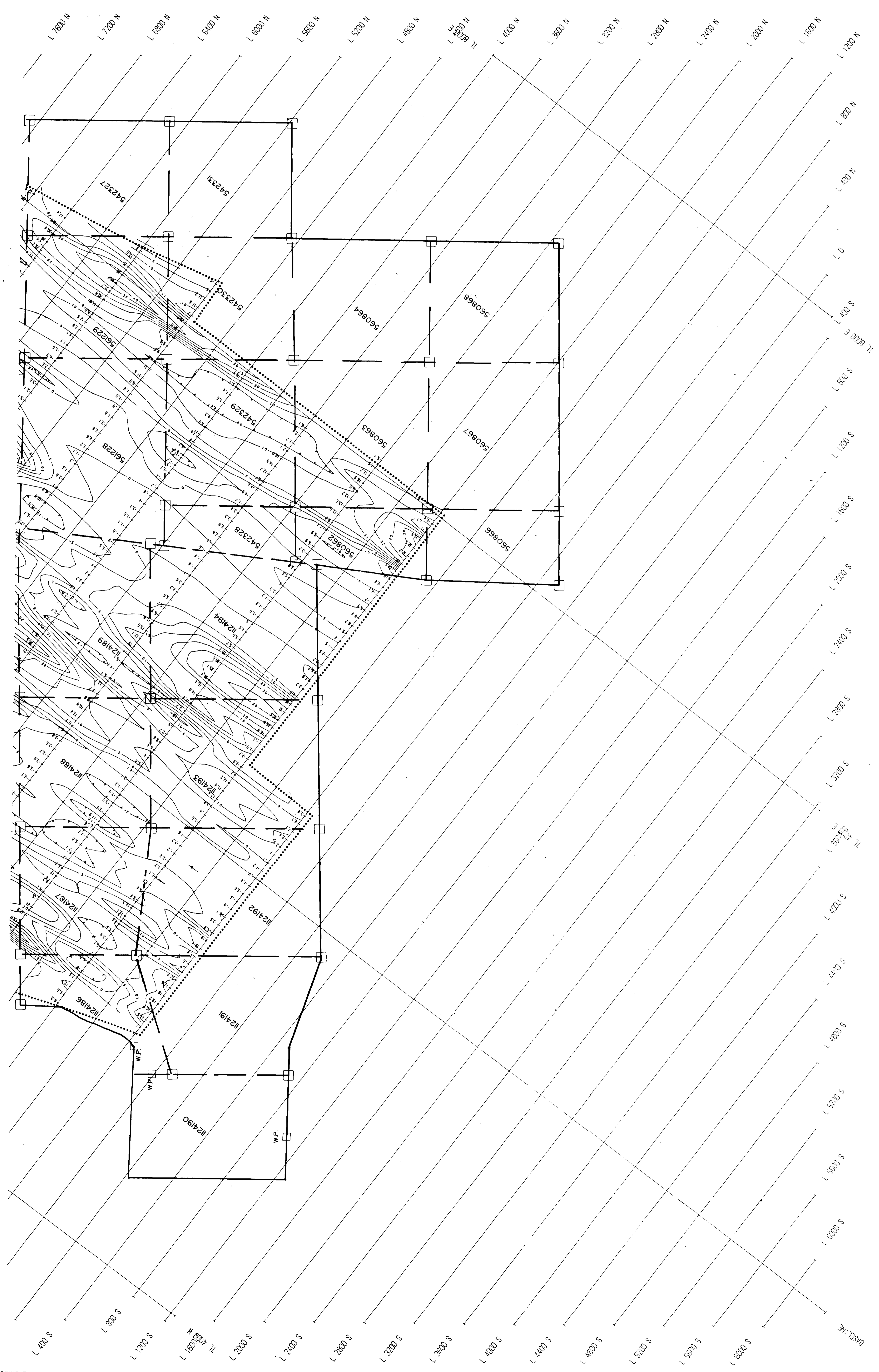


Induced Polarization Survey  
 PHASE (MRAD) N-4  
 FOR  
**PLACER DOME INC.**

PROJECT: **EAST BAY Grid #147**

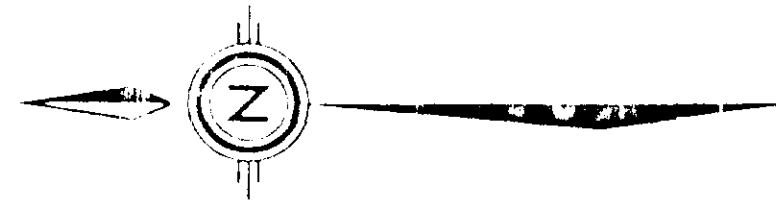
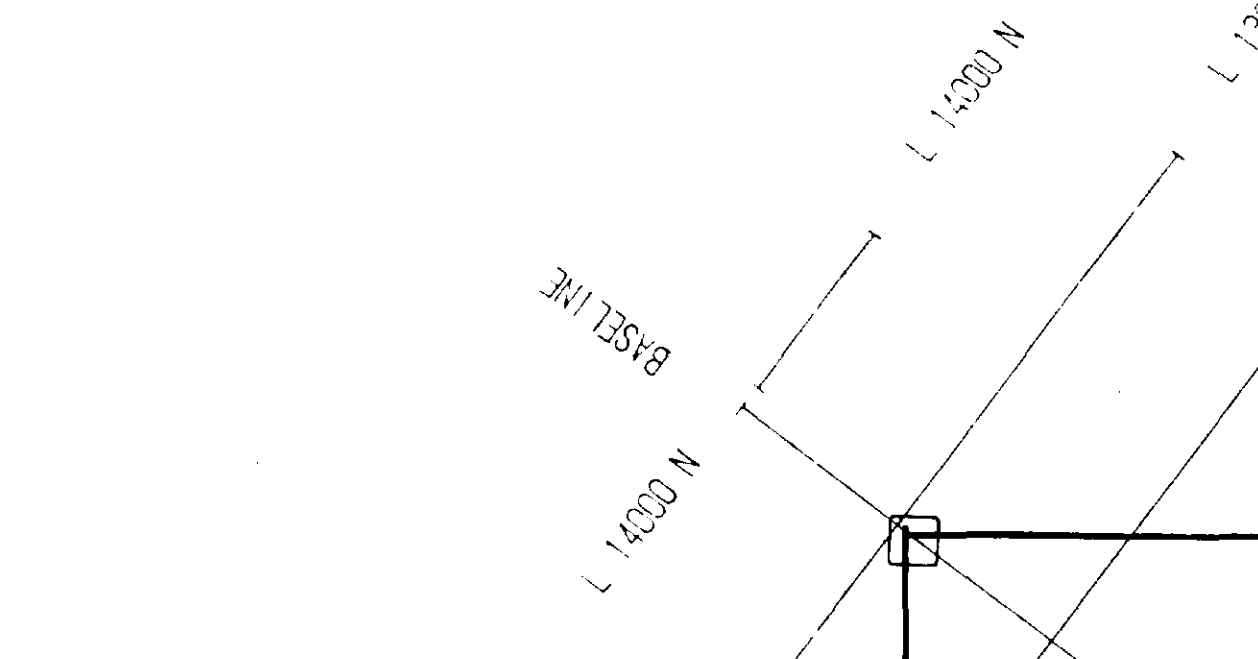
SURVEYED BY: R. BELANGER DATE: April 94  
 DRAWN BY: EXPLORATION SERVICES SCALE: 1:400  
 TWP. BATEMAN

Instrument: JPL1  
 PROJECT: JPL1  
 TWP. BATEMAN

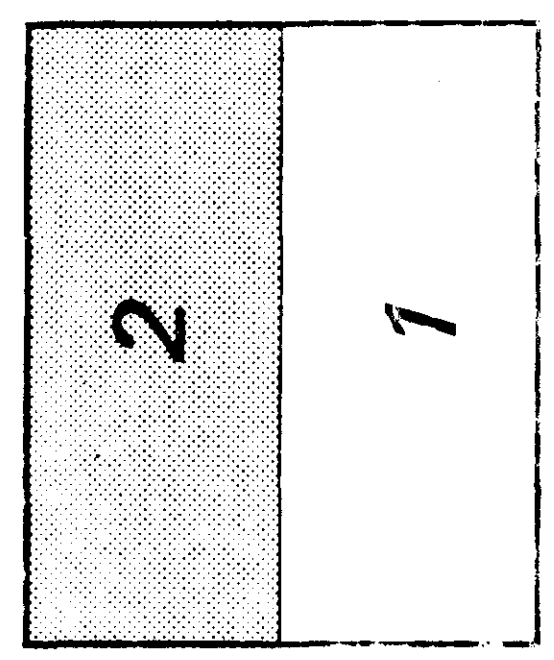


BATEMAN  
TWP.  
(GRID # 147)

INDEX MAP  
SCALE: 1" = 1000'  
METERS



..... Outline of area covered by survey



Induced Polarization Survey  
 PHASE (MRAD) N-4  
 FOR  
**PLACER DOME INC.**

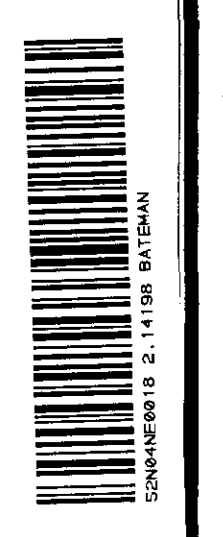
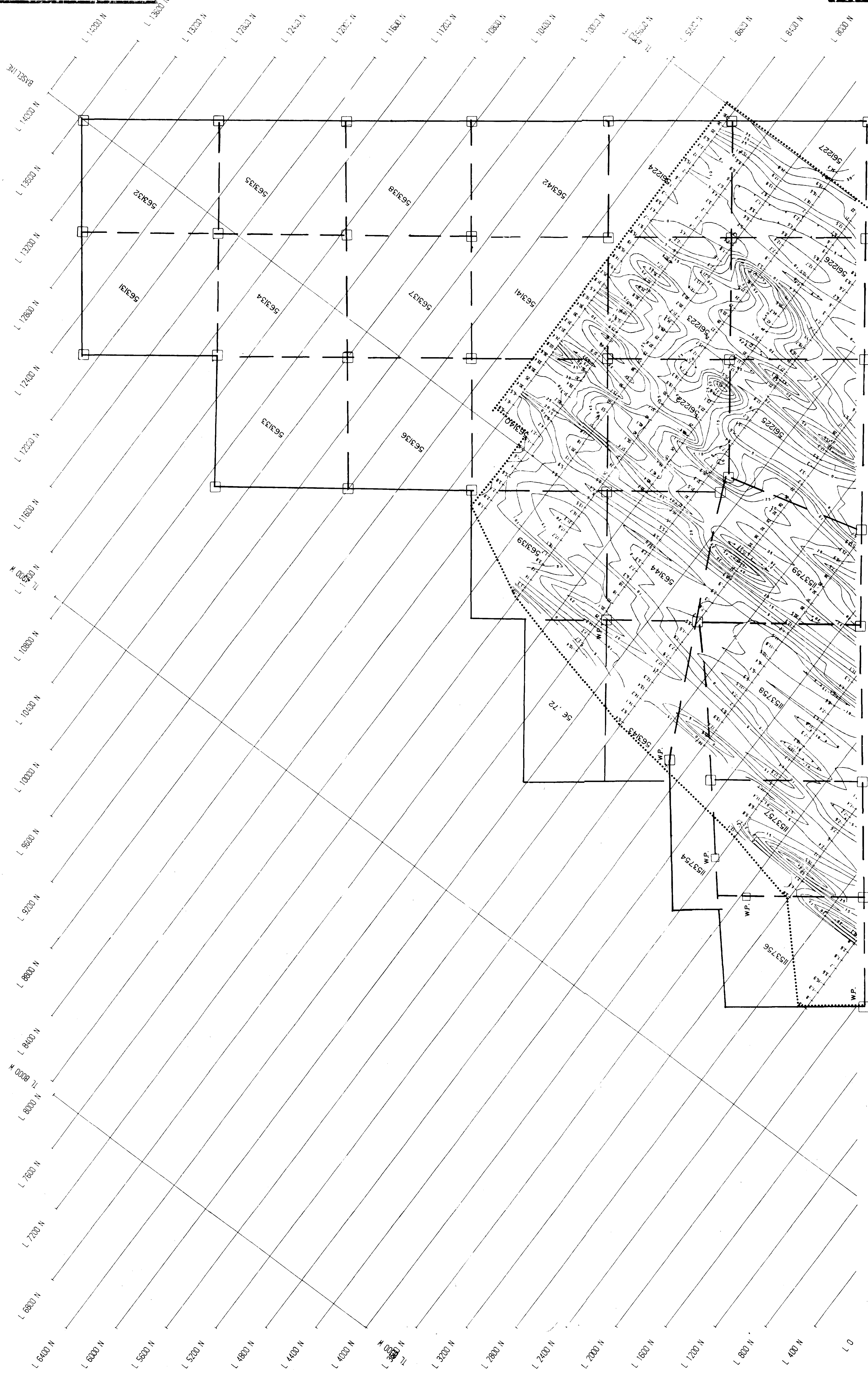
PROJECT: **EAST BAY Grid # 147** 2 of 2

SURVEYED BY: **R. BELANGER** DATE: **APRIL 91**  
 DRAWN BY: **EXPLORATION SERVICES** SCALE: **1" = 400'**

Instrument: **IPV4**  
**PHOENIX 1171**

Twp. **BATEMAN**

REMY BELANGER INC.

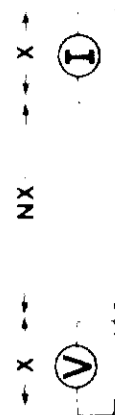


# INDUCED POLARIZATION AND RESISTIVITY SURVEY

COMPANY: PLACER DOME INC.

Property: 147 - EAST BAY  
RED LAKE, ONTARIO 2.14198

LINE No. 8100N  
ELECTRODE CONFIGURATION  
(DIPOLE - DIPOLE)



PLOTTING POINT  
→ X X-100'

SURFACE PROJECTION  
OF ANOMALOUS ZONES  
DEFINITE  
POSSIBLE

INSTRUMENT PHOENIX IPV-4 SPECTRAL FREQUENCY 10 Hz  
IPT 1 CR-2

\*NOTE: CONTOURS AT LOGARITHMIC INTERVALS (1:1.5:2.3:3.5:5:10)

DATE SURVEYED: FEB 15 1991

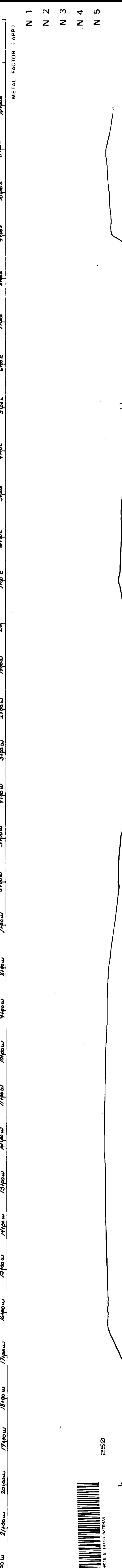
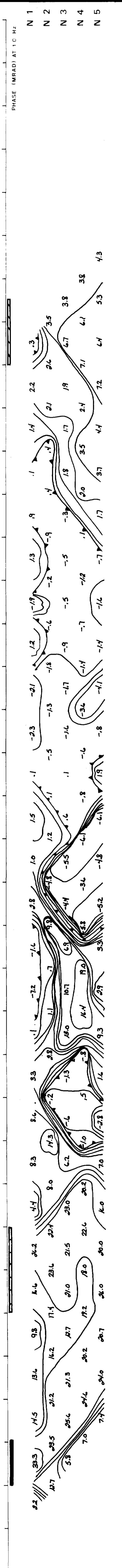
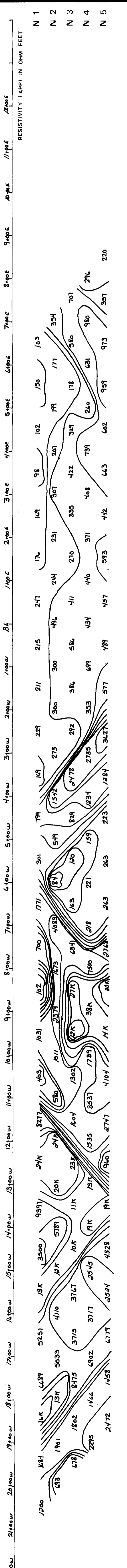
APPROVED: *Remy Belanger*

DATE: MARCH 25-1991

OPERATOR: REMY BELANGER



REMY BELANGER INC.



LAKE

250

55996918 2-14198 BATEDAM

# INDUCED POLARIZATION AND RESISTIVITY SURVEY

COMPANY: **PLACER DOME INC.**

Property: 147 - EAST BAY  
RED LAKE, ONTARIO

LINE No **164004**

ELECTRODE CONFIGURATION  
(DIPOLE DIPOLE)

- X - - NX - - X -

(V) (I)

PLOTTING POINT  
- X x 100'

MAP PROJECTION  
W. CONFORMAL ZONES

**2.14198**

MEASUREMENT PHOENIX IPV 4 SPECTRAL FREQUENCY 10  
IPT 1 CR-2

\*NOTE: CONTOURS AT LOGARITHMIC INTERVALS (1:15.23575)

DATE SURVEYED:  
**FEB. 17 - 1991**

OPERATOR:  
**REMY BELANGER**

APPROVED:  
*Remy Belanger*

DATE:  
**MARCH 25 - 1991**

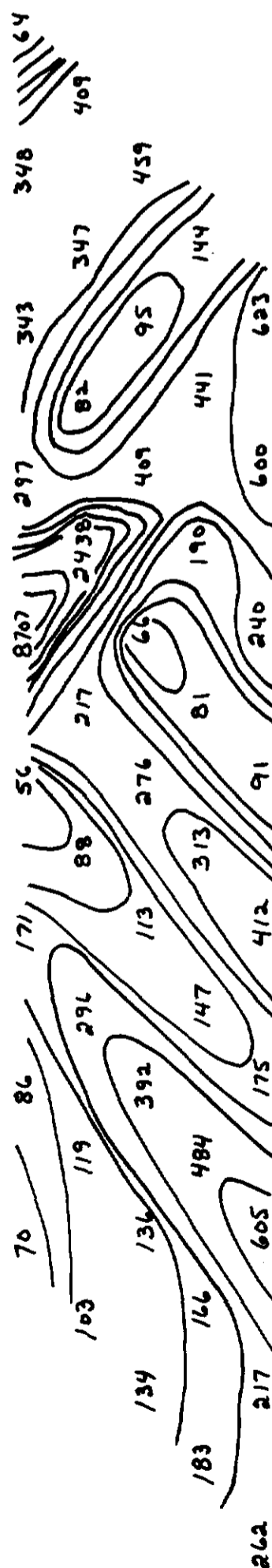


**REMY BELANGER INC.**

RESISTIVITY (APP) IN OHM FEET

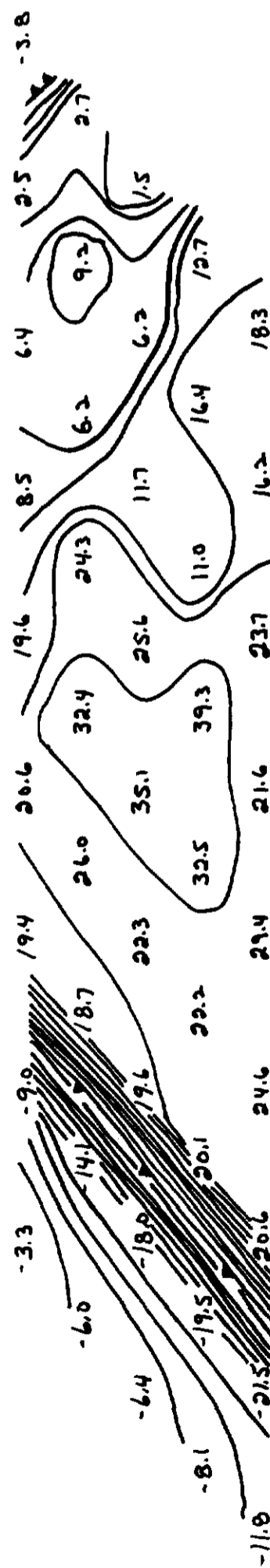
N 1  
N 2  
N 3  
N 4  
N 5

34100E 35500E 36100E 37100E 38100E 39100E 40100E 41100E 42100E 43100E



PHASE (MRAD)

N 1  
N 2  
N 3  
N 4  
N 5



METAL FACTOR (APP)

N 1  
N 2  
N 3  
N 4  
N 5

SWAMP FLAT OUTCROP



5204NE0018 2.14198 BATEMAN



# INDUCED POLARIZATION AND RESISTIVITY SURVEY

COMPANY: **PLACER DOME INC.**  
 Property: 147 - EAST BAY  
 RED LAKE, ONTARIO

LINE No **167000**  
 ELECTRODE CONFIGURATION  
 DIPOLE-DIPOLE

INSTRUMENT PHOENIX 344 SPECTRAL FREQUENCY 1.0 47  
 PLOT 1 ON 2

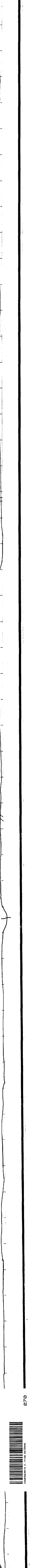
DATE SURVEYED:  
**FEB. 16-17-1991**

OPERATOR:  
**REMY BELANGER**

APPROVED:  
*Remy Belanger*  
 DATE:  
**MARCH 24-1991**



**REMY BELANGER INC.**





# INDUCED POLARIZATION AND RESISTIVITY SURVEY

COMPANY: **PLACER DOME INC.**

PROPERTY: 147 - EAST BAY  
RED LAKE, ONTARIO

LINE No. **24100N**  
ELECTRODE CONFIGURATION  
DIPPLE DIPOLE

DATE: **1997**

TIME: **10:00**

TEMPERATURE: **10**

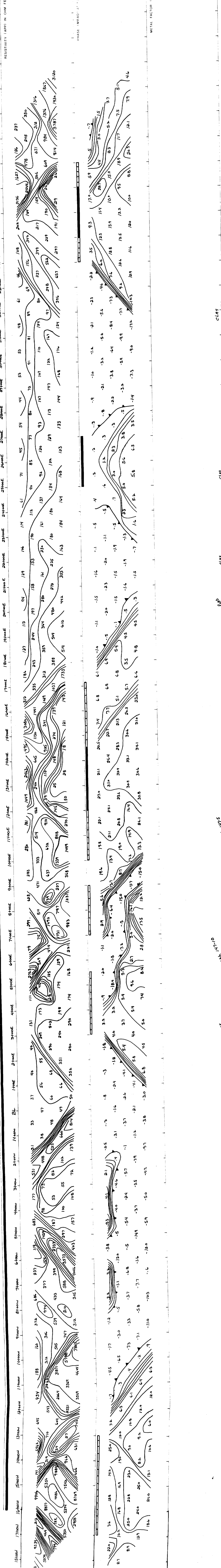
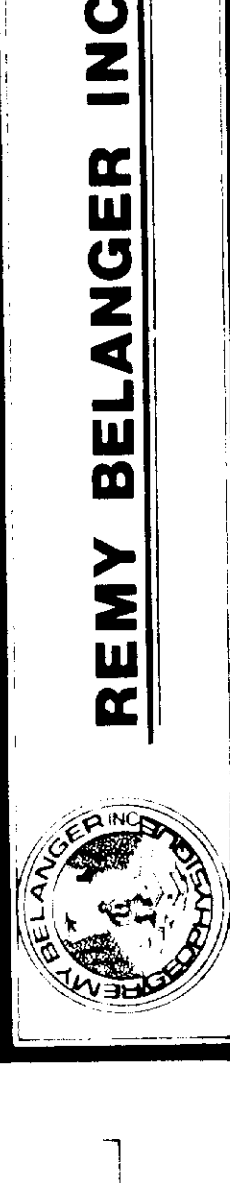
WIND: **100'**

PROJECT: **2.14198**

INSTRUMENT PHOENIX RT 1 CR 2

NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1:1.25:1.5:2:3:5:10

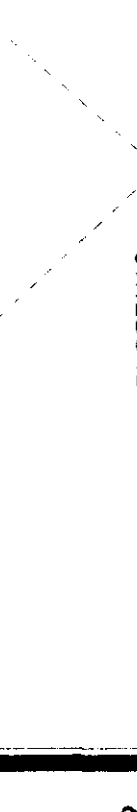
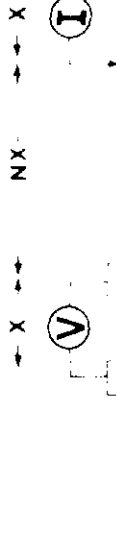
DATE SURVEYED: **FEB/18-19/97**  
OPERATOR: **REMY BELANGER**



# INDUCED POLARIZATION AND RESISTIVITY SURVEY

COMPANY: **PLACER DOME INC.**  
 Property: 147 - EAST BAY  
 RED LAKE, ONTARIO

LINE No. **32-N**  
 ELECTRODE CONFIGURATION  
 (DIPOLE - DIPOLE)

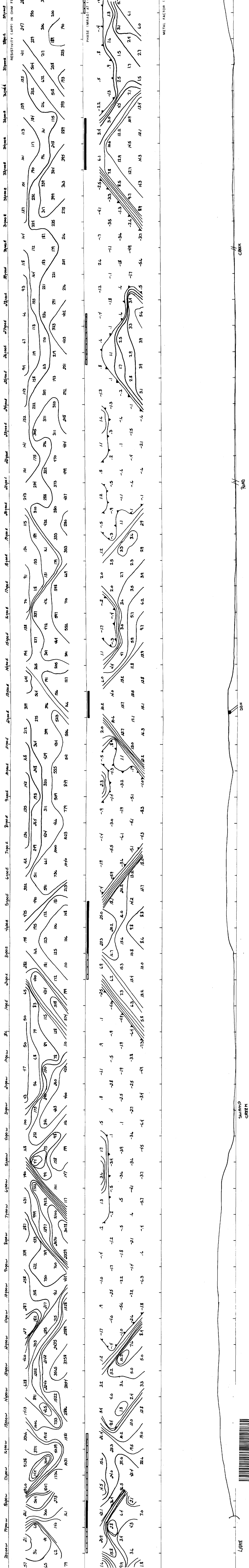
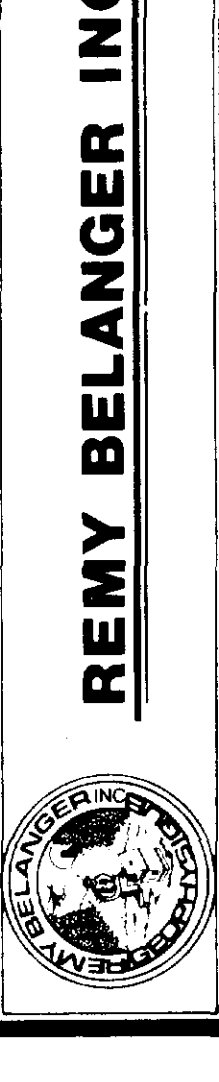


PLOTTING POINT - X X 100'  
 SURFACE PROJECTION OF ANOMALOUS ZONES  
 DEFINITE  
**214198**  
 PROBABLE  
 POSSIBLE

INSTRUMENT PHOENIX IPV-4 SPECTRAL IPT-1 CR-2  
 FREQUENCY 10 Hz

\*NOTE: CONTOURS AT LOGARITHMIC INTERVALS (1:1.5:2.3:3.5:5:10)

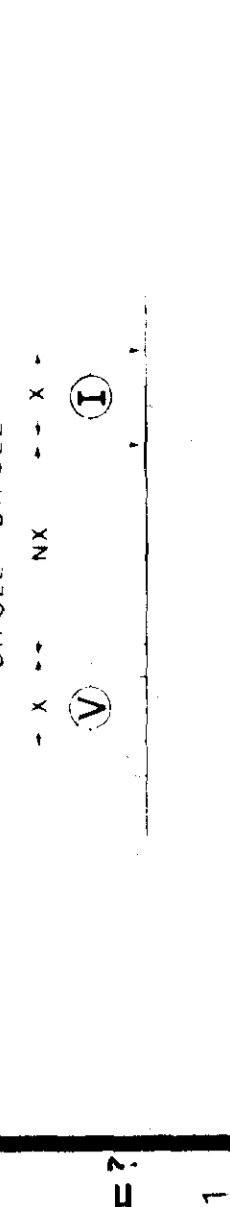
DATE SURVEYED: \_\_\_\_\_  
 APPROVED: *Stacy Adams*  
 OPERATOR: REMY BELANGER  
 DATE: MARCH 26-1991



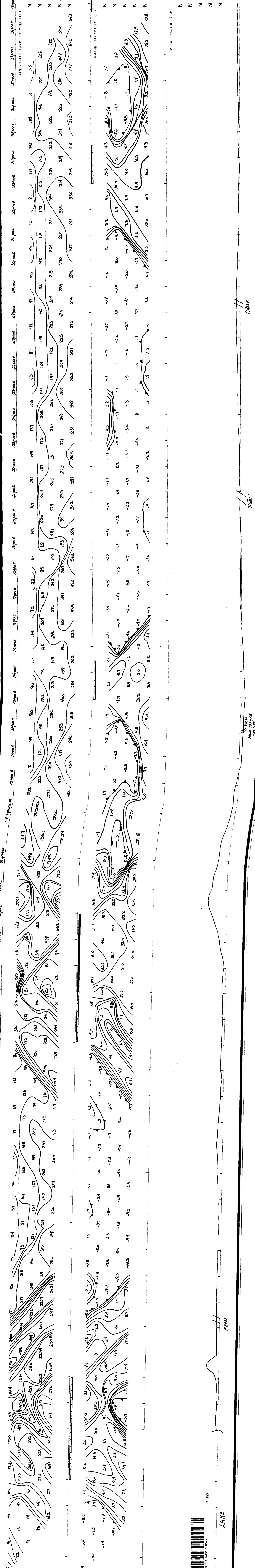
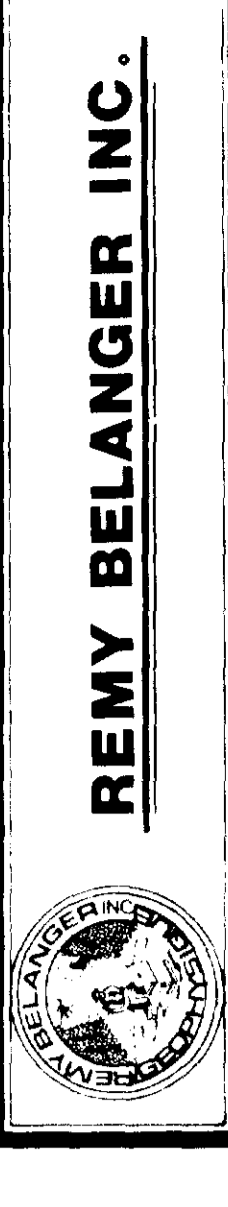
# INDUCED POLARIZATION AND RESISTIVITY SURVEY

COMPANY: **PLACER DOME INC.**  
 Property: 147 - EAST BAY  
 RED LAKE, ONTARIO

LINE No. **40-N**  
 ELECTRODE CONFIGURATION  
 (DIPOLE - DIPOLE)



INSTRUMENT PHOENIX IPV 4 SPECTRAL FREQUENCY 10 Hz  
 1PI 1 CR 2  
 \*NOTE CONTOURS AT LOGARITHMIC INTERVALS (1:1.23:5.75:10)  
 DATE SURVEYED: **FEB: 21-22 1991**  
 OPERATOR: **REMY BELANGER**  
 APPROVED: *Remy Belanger*  
 DATE: **MARCH 24 1991**



LAKE

ROAD

CREEK

CREEK

DOH  
 MADE 197-2  
 STREET

METAL FACTOR (APP)

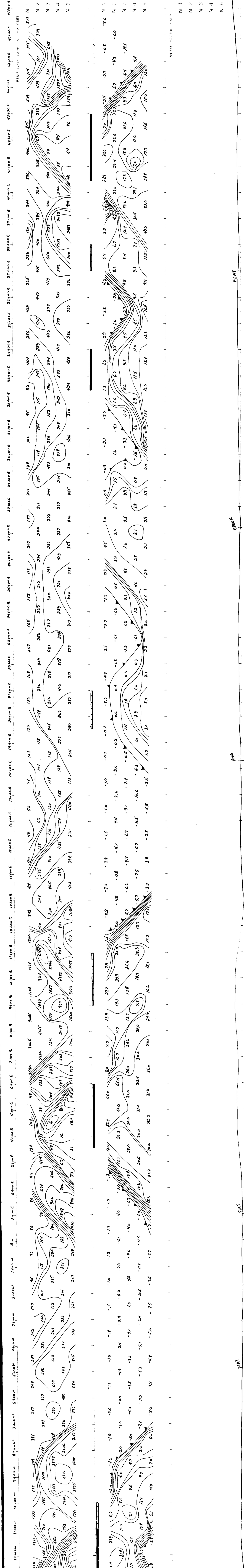
N 1  
 N 2  
 N 3  
 N 4  
 N 5

# INDUCED POLARIZATION AND RESISTIVITY SURVEY

COMPANY: **PLACER DOME INC.**  
 Property: 147 - EAST BAY  
 RED LAKE, ONTARIO

LINE No. **48-N**  
 1:50,000 SCALE  
 1:50,000 SCALE

**2.14198**



DATE SURVEYED:  
**FEB 22-23-1990**  
 OPERATOR:  
**REMY BELANGER**

APPROVED:  
*[Signature]*  
 DATE:  
**MARCH 26-1991**



**REMY BELANGER INC.**



2.14198 BATTEN

**INDUCED POLARIZATION  
AND RESISTIVITY SURVEY**

COMPANY: **PLACER DOME INC.**  
PROPERTY: **147 - EAST BAY  
RED LAKE, ONTARIO**

LINE No. **5400N**  
ELECTRODE CONFIGURATION  
(DIPOLE - DIPOLE)

--- X --- NX --- X ---  
①

SUREACE PROJECTION  
OF ANOMALOUS ZONES  
DEFINITE  
POSSIBLE

PLOTTING POINT  
**2.14198**

INSTRUMENT PHOENIX IPV.4 SPECTRAL FREQUENCY 10 HZ  
IPT 1 CH 2

\*NOTE CONTOURS AT LOGARITHMIC INTERVALS (1:1523:575:10)

DATE SURVEYED:  
**FEB. 24 - 25 - 1991**

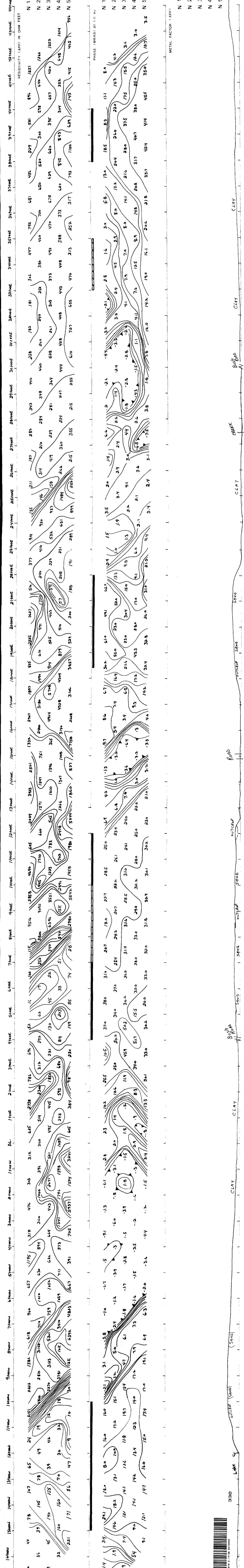
APPROVED:  
*Remy Belanger*

OPERATOR:  
**REMY BELANGER.**

DATE:  
**MARCH 26 - 1991**



**REMY BELANGER INC.**





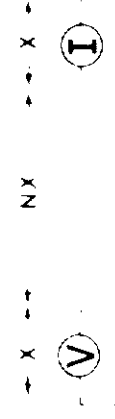




# INDUCED POLARIZATION AND RESISTIVITY SURVEY

COMPANY: *PLACER DOME INC.*  
 Property: 147. EAST BAY  
 RED LAKE, ONTARIO

LINE No. 68100W  
 ELECTRODE CONFIGURATION  
 (DIPOLE DIPOLE)



PLOTTING POINT  
 - X X 100'

2.14198

SURFACE PROJECTION  
 OF ANOMALOUS ZONES  
 DEFINITE  
 PROBABLE  
 POSSIBLE

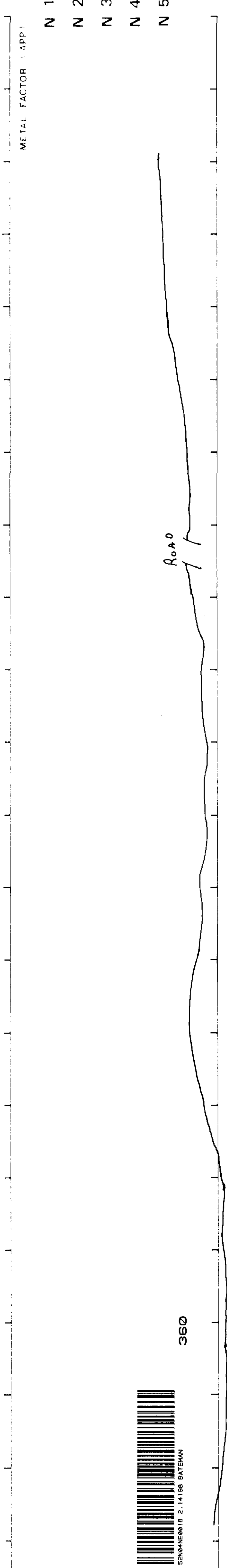
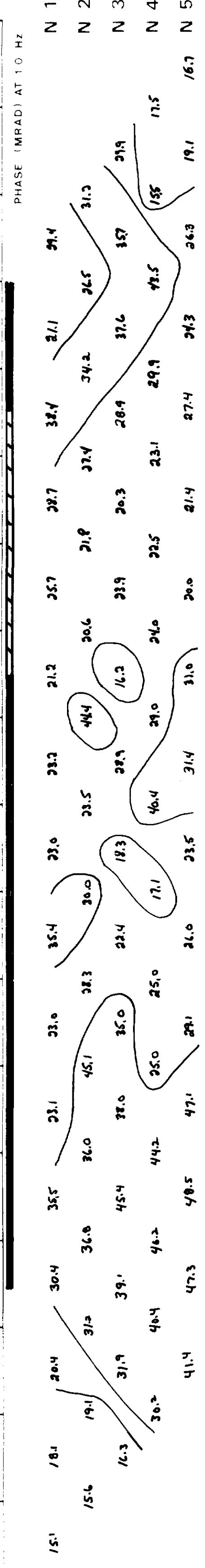
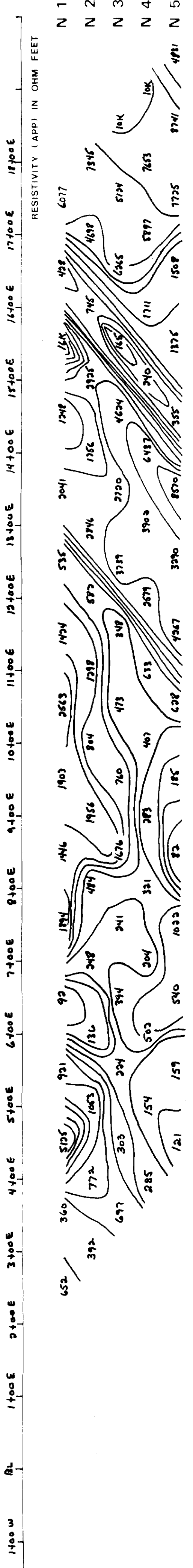
INSTRUMENT PHOENIX IPV 4 SPECTRAL FREQUENCY IPT 1 CP 2

\* NOTE CONTOURS AT LOGARITHMIC INTERVALS 1:1:2:3:5:7:10:

DATE SURVEYED: *MARCH 04 1991*  
 OPERATOR: *REMY BELANGER*  
 APPROVED: *Remy Belanger*  
 DATE: *MARCH 26 1991*



**REMY BELANGER INC.**



360

ROAD

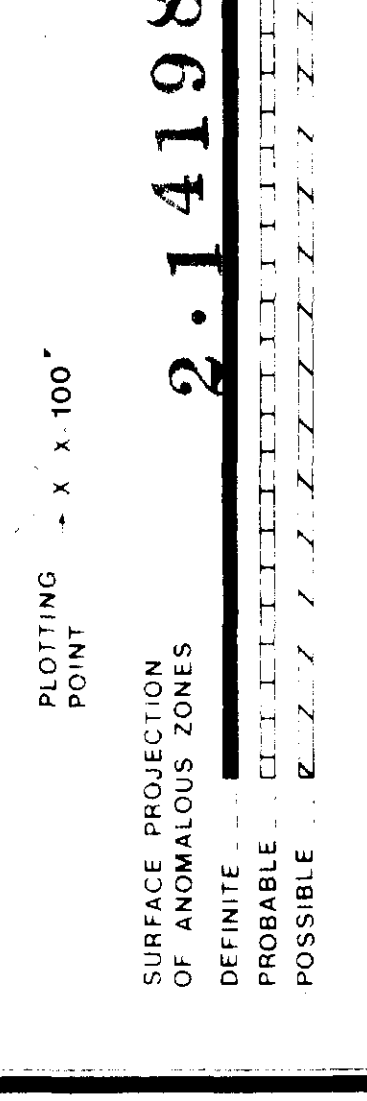
# INDUCED POLARIZATION AND RESISTIVITY SURVEY

COMPANY: PLACER DOME INC.  
Property: 147 - EAST BAY  
RED LAKE, ONTARIO

LINE No. 72-N  
ELECTRODE CONFIGURATION  
(DIPOLE - DIPOLE)



PHASE (MRAD) AT 10 HZ



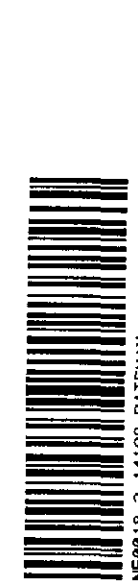
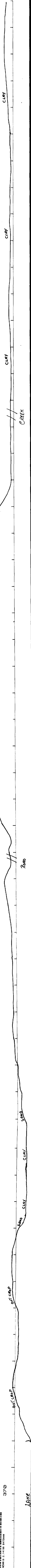
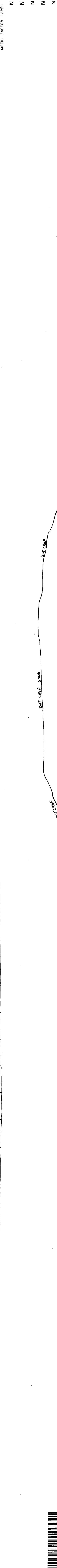
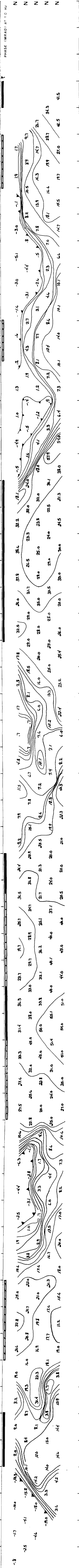
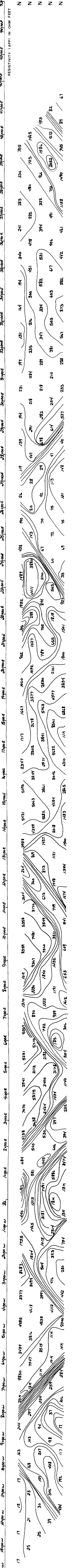
INSTRUMENT PHOENIX IPV-4 SPECTRAL FREQUENCY 10 HZ  
PT 1 CR 2

\*NOTE CONTOURS AT LOGARITHMIC INTERVALS (1.1, 1.3, 1.5, 1.7, 1.9)

DATE SURVEYED: FEB. 27-28-1971  
APPROVED: *[Signature]*  
OPERATOR: REMY BELANGER  
DATE: MARCH 24-1971



**REMY BELANGER INC.**



370

LAKE

SCANNED BY 2-14198 BATESMAN



# INDUCED POLARIZATION AND RESISTIVITY SURVEY

COMPANY: **PLACER DOME INC.**

Property: 147 - EAST BAY  
RED LAKE, ONTARIO

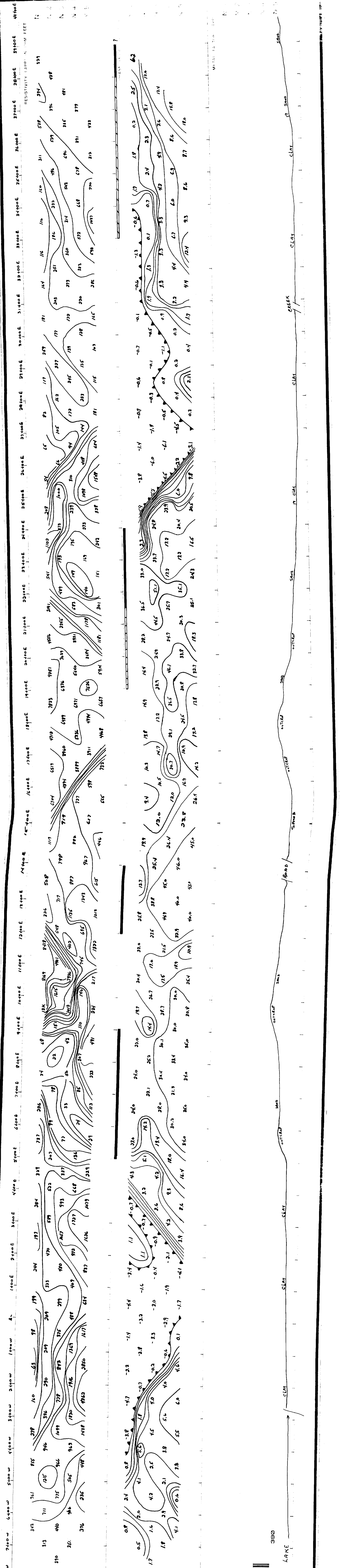
LINE No 80-00N

ELECTRICAL CONFIGURATION  
DIPOLAR, DIPOLAR

DATE: 1991

2.14198

RESISTIVITY (APP) IN OHM FEET



DATE SURVEYED: **MARCH 01 1991**  
OPERATOR: **REMY BELANGER**  
DATE: **MAR 26 1991**

APPROVED: **Remy Belanger**



**REMY BELANGER INC.**



# INDUCED POLARIZATION AND RESISTIVITY SURVEY

COMPANY: PLACER DOME INC.  
Property: 147 - EAST BAY  
RED LAKE, ONTARIO

LINE No. 84100N  
ELECTRODE CONFIGURATION  
(DIPOLE DIPOLE)

- X -- NX -- X -  
①

PLOTTING POINT  
- X x 100°

2.14198

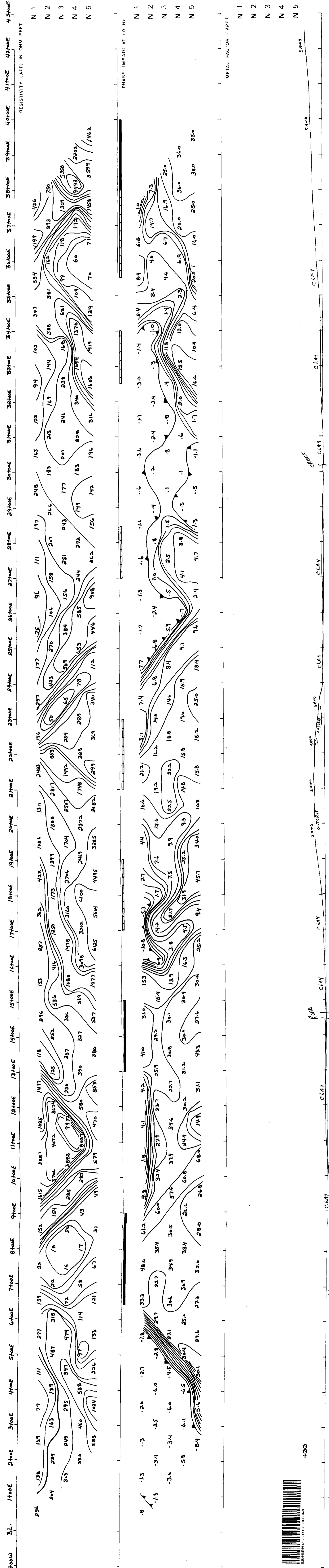
INSTRUMENT PHOENIX IPV-4 SPECTRAL FREQUENCY 10 Hz  
IPT 1 CR-2

\*NOTE: CONTOURS AT LOGARITHMIC INTERVALS (1:1.5:2.5:7.5:10)

DATE SURVEYED: March 02-1991  
APPROVED: *Greg Belyea*  
OPERATOR: REMY BELANGER  
DATE: March 26, 1991



REMY BELANGER INC.



SENHENS18 2.14198 BATEMAN