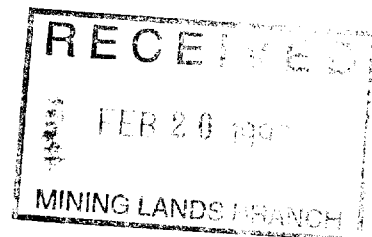




**GEOPHYSICAL SURVEYS**  
Property of  
**PLACER DOME CANADA LTD.**  
**MONETA Property**  
Tisdale and Murphy Townships  
Province of Ontario  
June 1996

P. Boileau    Y. Ghanem

**2.17061**



42A11SE0119 2.17061 MURPHY

010

96-1326

## **SUMMARY**

From March 18 to April 5, 1996, line-cutting as well as 144,7 line-km of magnetic and 131,0 line-km of electromagnetic (HLEM) surveys were carried out on behalf of Placer Dome Canada Limited on the Moneta property located in Tisdale and Murphy townships, Timmins area, province of Ontario.

The surveys detected, inside a weak to moderate magnetic relief, eleven EM conductors of which six are likely located within the bedrock.

Recommendations for further work consist of a few induced polarization profiles and drilling to test the best geophysical responses.



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MAPS:

DRAWING NO.

MAGNETIC SURVEY

- 1.1 (Sheets 1-2-3)
- 1.2 (Sheets 1-2-3)

- Total Field Contours
- Total Field Profiles

DRAWING NO.

ELECTROMAGNETIC HLEM SURVEY

- 3.2 (Sheets 1-2-3)
- 3.4 (Sheets 1-2-3)
- 3.5 (Sheets 1-2-3)

- Profiles 440 Hz
- Profiles 1760 Hz
- Profiles 3520 Hz



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## 1. INTRODUCTION

Magnetic and electromagnetic (HLEM) surveys were carried out during the months of March and April 1996 on a claim block owned by **PLACER DOME CANADA LTD.**, designated **MONETA Property**, in Tisdale and Murphy townships, Timmins area, Province of Ontario.

These surveys were designed to locate anomalies potentially caused by sulphide-rich zones as favourable hosts for precious and base metal deposits.

## 2. PROPERTY, LOCATION AND ACCESS

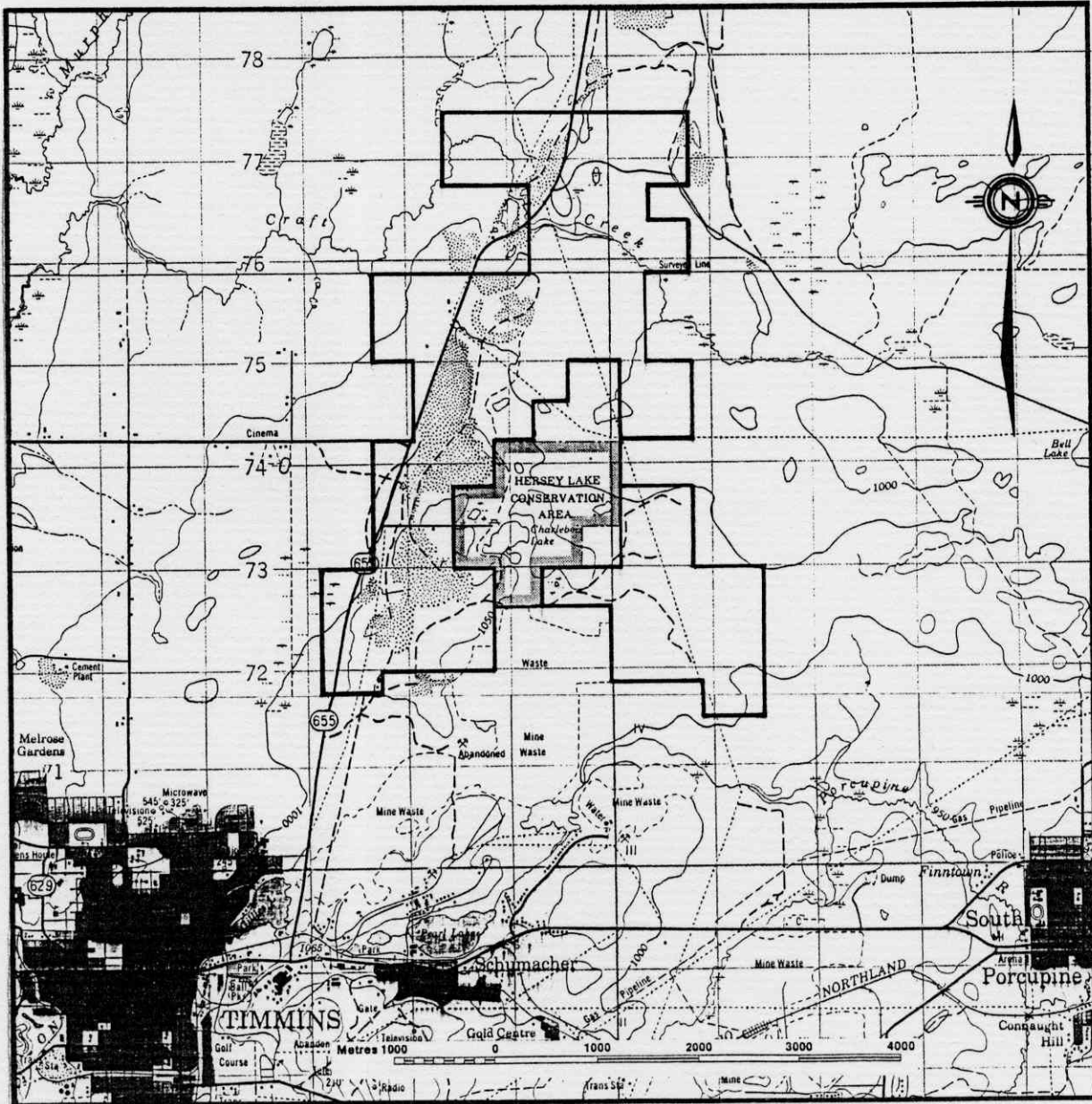
The property is located less than two kilometres to the north-east of the town of Timmins, in Tisdale and Murphy townships, Province of Ontario. The access is from Timmins to the north via Provincial Road 655, which traverses the western and northern parts of the claim block.

The mineral exploration permits are owned by **PLACER DOME CANADA LTD.** The general location of the property is presented in figure #1, while the claim numbers and the survey area show in figure #2 of the present report.

## 3. GEOPHYSICAL SURVEYS

From March 18 to April 5, 1996, line-cutting, magnetic and electromagnetic (HLEM) surveys were carried out on the **MONETA Property**. In total, 144,7 line-km of magnetic and 131,0 line-km of electromagnetic (HLEM) surveys were executed on the property.





**PLACER DOME CANADA LTD.**  
**MONETA Property**  
Figure #1: General location of the property





#### **4. SURVEY SPECIFICATIONS AND INSTRUMENTATION**

The surveys were executed along a grid of N/S-oriented lines, cut at a 100-m interval and marked every 25 m.

The magnetic readings were taken with a GEM GSM-19 portable magnetometer using the Overhauser effect. The total magnetic field was measured every 2 seconds in a continuous reading mode, with a precision of 0,2 nanoTesla (nT). The readings were systematically controlled for location every 12,5 metres. The magnetometer was operated with the sensor mounted on top of a backpack frame. The noise envelope is estimated at less than 5 nT after a short wavelength filter was applied to remove noisy spikes. A base station magnetometer located on the property to measure the total magnetic field every 20 seconds was used as a reference for correction of the diurnal variation.

For the HLEM survey, the APEX MAXMIN I system was used in the horizontal coplanar loop mode with a 150-metre separation between the transmitting and receiving coils. Readings were taken at 25-metre intervals along the lines. The instrument is capable of operating on nine different frequencies of which 440, 1760 and 3520 Hz were selected. In this type of survey, both in-phase and out-of-phase components of the secondary field are measured and are recorded as percentages of the primary field with a precision of 1%.

#### **5. RESULTS AND INTERPRETATION**

##### **5.1 Magnetic Survey**

The area covered by the present survey shows a weak to moderate magnetic relief where total field intensities fluctuate between 57 800 and 59 900 nanoTeslas, in general. This relief is characterized by the presence, specially in the second half of the property, of a few ENE/WSW-oriented zones of magnetic highs which reach 400 to 1800 nT over local background. In the southeast corner and in the northern half of the grid, the magnetic relief



is more homogeneous and uniform, with only a few E-W to ENE/WSW more or less continuous zones of magnetic highs reaching less than 400 nT.

On the other hand, the central part of the survey is traversed by a NW/SE-oriented narrow zone of high magnetic susceptibility which likely represents a diabase dyke.

Finally, the total field profiles generally indicate deep sources (15 to 50 m), except in a few places where near-surface sources could be related to cultural noise.

## 5.2 Horizontal-Loop EM Survey

The survey detected no less than eleven conductors showing a general ENE/WSW-orientation which were designated by the letters A to K, inclusively. The following table presents the principal physical characteristics of each conductor.

**Table 1: Principal physical characteristics of conductors detected on the Moneta property**

Conductor	Length (m)	Dip	Depth (m)	Conductance (Siemens)	Magnetic association (nT)
A	800	North to subvertical	30 to 50	2 to 9	Close to direct 200 to 300
B	500 (?)	North	35 to 50	1 to 5	None
C	200	?	?	?	None
D	100	?	?	?	None
E	200	South	45	3 to 7	Close - 100
F	1 700	South	15 to 40	9 to 36	Locally close - 400
G	200	?	?	?	?
H	200	South (?)	60	16	None
I	100	?	?	?	None
J	500	South	35 to 55	4 to 12	None
K	200	?	?	?	?





Conductors A, B, E, F, H, and J are classified as bedrock conductors with maximum conductances varying from 5 to 36 Siemens and depths ranging usually between 30 and 60 metres; conductor F presents the best responses with conductances of 9 to 36 Siemens.

Conductors A and B seem to be dipping to the north, whereas conductors E, F, H, and J appear to be dipping to the south.

As for conductors C, D, G, I, and K, they could be caused by a weakly conductive mineralization (stringers) or structure, but also by a conductive overburden. Finally, only conductor A presents a direct magnetic association and could possibly be explained, at least partly, by the presence of pyrrhotite within the underlying rocks.

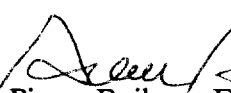
## 6. CONCLUSION AND RECOMMENDATIONS


The geophysical surveys executed on the Moneta property detected, inside a weak to moderate magnetic relief, eleven conductors of which at least six are likely located inside the bedrock and could be explained by stringer to semi-massive and massive mineralizations.

It is recommended to test by drilling the six best conductors on their best HLEM responses. However the final choice of the different drilling targets should be done in the light of all geological, geochemical and geophysical information available on the property.

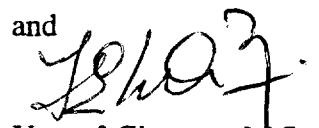
In addition, a few induced polarization profiles could allow to study the nature of the five weaker conductors.

Respectfully submitted,  
VAL D'OR GEOPHYSICS LTD.

  
Pierre Boileau, Eng.  
Geophysicist



and

  
Youcef Ghanem, M.Sc.  
Geophysicist



**CERTIFICATE**

I, undersigned, Pierre Boileau, Eng., certify that:

I reside at 1725 Duchesne, Val-d'Or (Québec), since 1981.

I am a graduate of École Polytechnique, Montréal (Québec) where I have obtained a B. Sc.A. in Geological engineering in 1971.


I have been engaged in Exploration Geophysics since 1968 and have been practicing as a professional engineer since 1971.

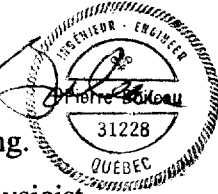
I am a member of the Ordre des Ingénieurs du Québec, the Quebec Prospector Association, the Prospector & Developers Association of Canada, the Society of Exploration Geophysicists and the Canadian Institute of Mining & Metallurgy.

This report is based on the information contained in the survey described. The interpretation of the data was made using methods known in the literature and based on my personal experience.

I have not received, nor do I expect to receive directly or indirectly any interest in the property that belongs to **PLACER DOME CANADA LTD.**

Signed in Val-d'Or, this June 14, 1996.

  
Pierre Boileau, Eng.  
Consulting Geophysicist



**CERTIFICATE**

This to certify that:

I, undersigned, Youcef Ghanem, Geophysicist, certify that:

I reside at 168-A, Perreault, Val-d'Or (Québec), since 1993.

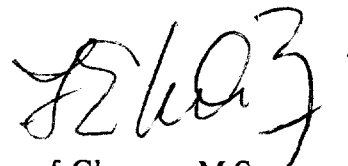
I am a graduate of Moscow Geological Prospection Institute (Russia) where I have obtained an engineering and M.Sc. degree in Geophysics and Geology in 1976 and of École Polytechnique, Montréal (Québec) where I have obtained a M.Sc. in Geophysics in 1988.

I have been engaged in Exploration Geophysics since 1976 and have been practicing as geophysicist since 1976.

I am a member of the Société Québécoise de Géophysique.

I have not received, nor do I expect to receive directly or indirectly any interest of any kind in the property that belongs to **PLACER DOME CANADA LTD.**

Signed in Val-d'Or, this June 14, 1996.



Youcef Ghanem, M.Sc.

Geophysicist





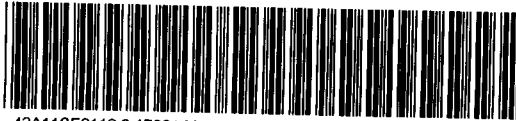
Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use) 9660.00846 Assessment Files Research Imaging

Personal information collected on this form is obtained under the authority of subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about

933 Ramsey Lake



42A11SE0119 2.17061 MURPHY

2.17061

claim, use form 0240.

Instructions:

900

1. Recorded holder(s) (Attach a list if necessary)

Table with columns for Name, Address, Client Number, Telephone Number, and Fax Number. Entries include Placer Dome Canada Limited and Moneta Porcupine Mines Inc.

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

Form with checkboxes for Geotechnical, Physical, and Rehabilitation work. Includes fields for Work Type, Dates Work Performed, Global Positioning System Data, Township/Area, and Mining Division.

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required; - provide proper notice to surface rights holders before starting work; - complete and attach a Statement of Costs, form 0212; - provide a map showing contiguous mining lands that are linked for assigning work; - include two copies of your technical report.

3. Person or companies who prepared the technical report (Attach a list if necessary)

Table for recording technical report preparers. Includes Val d'Or Geophysics. Includes a RECEIVED stamp dated FEB 20 1997 from MINING LANDS BRANCH.

4. Certification by Recorded Holder or Agent

I, PAUL BURCHELL, do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent: Paul Burchell. Date: Dec 10/96. Agent's Address: PO Box 960 Timmins Ontario P4N 7H1. Telephone Number: (705) 267-5400. Fax Number: (705) 267-5440.

Done and signed on 12/10/96

the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
1					
2	See attached Schedule A (West Block)		\$69,470 done		
3	See attached Schedule B (East Block)		\$22,910 done		
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
Column Totals		92,380	60,080	57,940	32,300

**RECEIVED**  
 FEB 20 1997  
 MINING LANDS BRANCH

I, ROBIN PRICE (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: Robin Price - Placer Dome Canada Date: Dec 10/96

**6. Instructions for cutting back credits that are not approved.**

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

2.17061

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

**For Office Use Only**

Received Stamp

**RECEIVED**  
 FEB 13 1996  
 215 [Signature]  
 PORCUPINE MINING DIVISION

Deemed Approved Date <u>MAR 13 1997</u>	Date Notification Sent
Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature) <u>Gary White</u>	

Moneta - ground geophysics - West Block

Claim	Suffix	# Units/Ha	\$ Done	\$ Applied	\$ Assigned	\$ to Bank
948702		1	1070	400	670	350
948705		1	1070	400	670	350
948706		1	1070	400	670	350
948708		1	1070	400	670	350
948711		1	1000	400	670	350
948712		1	1070	400	670	350
948703		1	1340	400	940	350
948704		1	1340	400	940	350
948707		1	1340	400	940	350
948709		1	1340	400	940	350
948710		1	1340	400	940	350
948713		1	1340	400	940	350
16380-SEC	65.5 ha		4295	0	4295	0
915963		1	1070	400	670	350
915964		1	1070	400	670	350
915965		1	1070	400	670	350
529973		1	1207	400	807	350
3080-W+T	16.6 ha		1140	0	1140	0
3079-W+T	16.1 ha		740	0	740	0
3078-W+T	16.1 ha		1205	0	1205	0
594793		1	1205	400	805	350
594792		1	1140	400	740	350
594791		1	1205	400	805	350
529974		1	1205	400	805	350
3081-W+T	16.6 ha		1275	0	1275	0
594782		1	1275	400	875	350
594783		1	1205	400	805	350
594784		1	1205	400	805	350
594789		1	1070	400	670	350
594790		1	1475	400	1075	350
2729-W+T	16.6 ha		1070	0	1070	350
594781		1	1070	400	1070	350
2728-W+T	16.1 ha		1070	0	1070	350
594785		1	1070	400	670	350
2730-W+T	16.6 ha		1205	0	1205	0
2727-W+T	16.1 ha		1340	0	1340	0
2726-W+T	16.1 ha		1275	0	1275	0
13262-W+T	64.75 ha		5635	0	5635	0
12204-W+T	16.1 ha		870	0	870	0
2725-W+T	16.1 ha		940	0	940	0
2731-W+T	16.1 ha		940	0	940	0
1743-SND	16.1 ha		1070	0	1070	0
1114867		1	1070	400	670	350
1741-SND	16.1 ha		940	0	940	0
987556		1	1070	640	430	375
1031808		1	1275	640	635	375
12583 W+T	16.1 ha		1207	0	1207	0
987557		1	1340	640	730	375
997758		1	1475	640	835	375
1031809		1	1070	640	430	375
1028784		1	1340	640	700	375
1028783		1	1006	640	366	400
1889-SND	16.1 ha		600	0	600	400
1031810		1	270	800	0	0
1031369		1	805	640	165	400
1203730		8	0	6400	0	0
1203731		4	0	3200	0	0
1203732		16	0	12800	0	0
1203733		6	0	4800	0	0
1203734		2	0	1600	0	0
1203735		3	0	2400	0	0
1203736		1	0	800	0	0
1205729		8	0	6400	0	0
TOTALS			69470	55520	53380	13950

2.17061

RECEIVED  
FEB 20 1997  
MINING LANDS BRANCH

RECEIVED  
DEC 13 1996  
R. PRICE

*R. Price*



Mining Act/Loi sur les mines

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4<sup>e</sup> étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre	3642	
	Field Supervision Supervision sur le terrain		3642
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type linecutting	58317	
	mag + EM	31294	
			89611
Supplies Used Fournitures utilisées	Type n/a		
			0
Equipment Rental Location de matériel	Type n/a		
			0
<b>Total Direct Costs Total des coûts directs</b>			<b>93,253</b>

2. Indirect Costs/Coûts indirects

\*\* Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work.  
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type n/a		
			0
Food and Lodging Nourriture et hébergement	n/a		0
Mobilization and Demobilization Mobilisation et démobilisation	n/a		0
<b>Sub Total of Indirect Costs Total partiel des coûts indirects</b>			<b>0</b>
<b>Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)</b>			<b>18,650</b>
<b>Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs)</b>			<b>93,253</b>
<b>Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)</b>			<b>93,253</b>

**2.17061**

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note: Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
	× 0.50 =

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale susmentionnée. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Evaluation totale de crédit
	× 0.50

Certification Verifying Statement of Costs

I hereby certify:  
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as SENIOR GEOLOGIST I am authorized  
(Recorded Holder, Agent, Position in Company)

to make this certification

Attestation de l'état des coûts

J'atteste par la présente:  
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de \_\_\_\_\_ je suis autorisé  
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature <u>Burchell</u>	Date Dec 10/96
------------------------------	-------------------

March 11, 1997

Geoscience Assessment Office  
933 Ramsey Lake Road  
6th Floor  
Sudbury, Ontario  
P3E 6B5

Gary White  
Mining Recorder  
Ontario Government Complex  
P.O. Bag 3060, Hwy 101 East  
South Porcupine, ON  
P0N 1H0

Telephone: (705) 670-5853  
Fax: (705) 670-5863

Dear Sir or Madam:

Submission Number: 2.17061

**Status**

**Subject: Transaction Number(s): W9660.00846 Deemed Approval**

---

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

NOTE: This correspondence may affect the status of your mining lands. Please contact the Mining Recorder to determine the available options and the status of your claims.

If you have any questions regarding this correspondence, please contact Steve Beneteau by e-mail at [beneteau\\_s@torv05.ndm.gov.on.ca](mailto:beneteau_s@torv05.ndm.gov.on.ca) or by telephone at (705) 670-5855.

Yours sincerely,



ORIGINAL SIGNED BY  
Ron C. Gashinski  
Senior Manager, Mining Lands Section  
Mines and Minerals Division



## Work Report Assessment Results

---

**Submission Number:** 2.17061

**Date Correspondence Sent:** March 11, 1997

**Assessor:** Steve Beneteau

---

<b>Transaction Number</b>	<b>First Claim Number</b>	<b>Township(s) / Area(s)</b>	<b>Status</b>	<b>Approval Date</b>
W9660.00846	948702	TISDALE, MURPHY	Deemed Approval	March 10, 1997

**Section:**

14 Geophysical MAG

14 Geophysical EM

**Correspondence to:**

Mining Recorder  
South Porcupine, ON

Resident Geologist  
South Porcupine, ON

Assessment Files Library  
Sudbury, ON

**Recorded Holder(s) and/or Agent(s):**

Paul Burchell  
TIMMINS, ONTARIO

PLACER DOME (CLA) LIMITED  
TORONTO, ON



**MAP SYMBOLOLOGY**

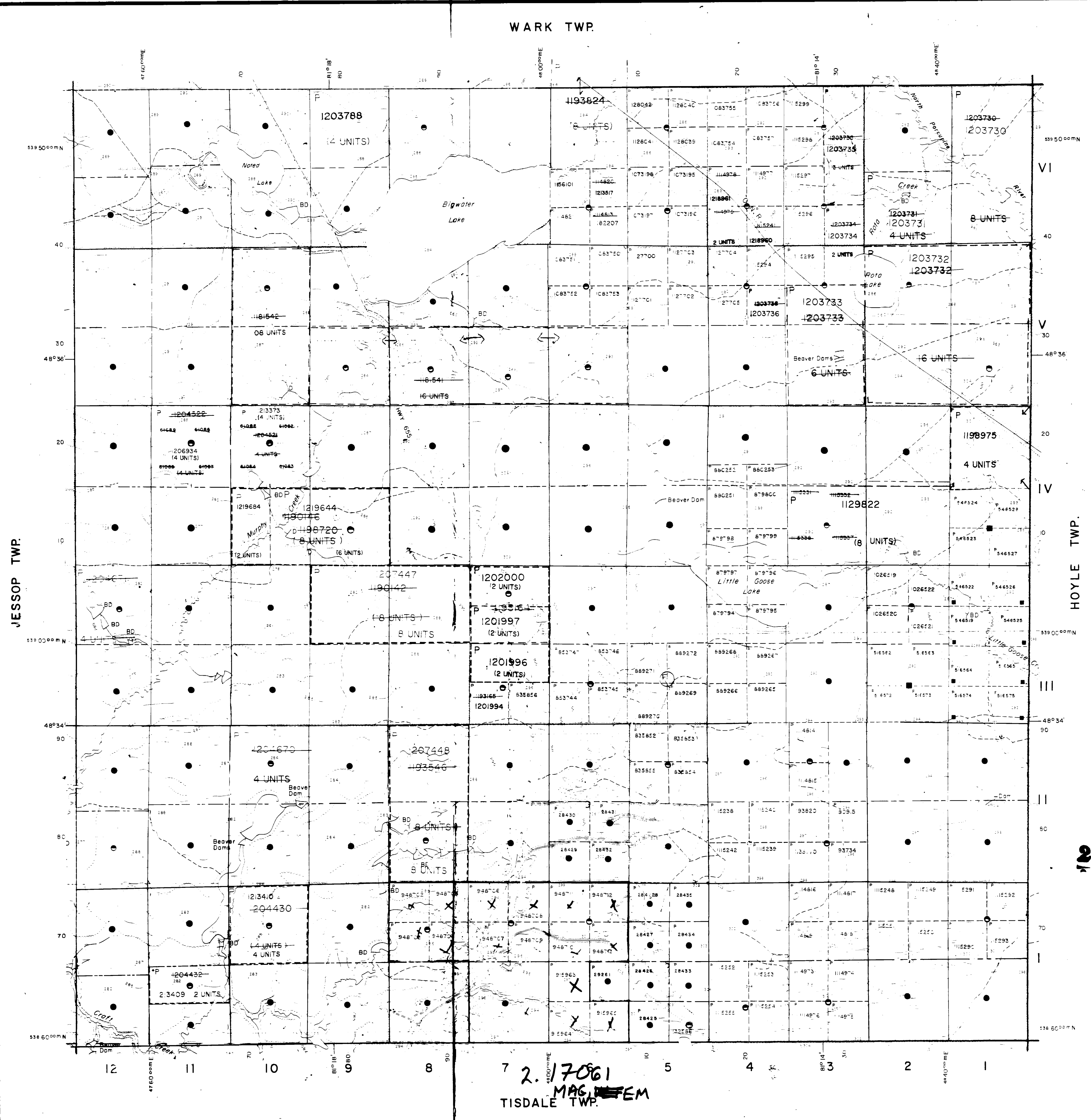
Aerial Cableway	Pipeline
Boundary	Railroad
Interpretation	Single Track
District, Township, Union Reserve	Double Track
Water Main	Abandoned
Lot, Concession, Application	Timberline
Park Boundary	Road
Bridge	Highway, County
Building	Timberline (road at doubtful or location of adjacent or nearby)
Chimney	Timberline (road at doubtful or location of adjacent or nearby)
Cliff, Pit, Pile	Timberline (road at doubtful or location of adjacent or nearby)
Contours	Timberline (road at doubtful or location of adjacent or nearby)
Interpretation	Timberline (road at doubtful or location of adjacent or nearby)
Approximate	Timberline (road at doubtful or location of adjacent or nearby)
Depression	Timberline (road at doubtful or location of adjacent or nearby)
Control Points	Timberline (road at doubtful or location of adjacent or nearby)
Vertical	Timberline (road at doubtful or location of adjacent or nearby)
Culvert	Timberline (road at doubtful or location of adjacent or nearby)
Falls	Timberline (road at doubtful or location of adjacent or nearby)
Double line river	Timberline (road at doubtful or location of adjacent or nearby)
Fence, Hedge, Wall	Timberline (road at doubtful or location of adjacent or nearby)
Feature Outline	Timberline (road at doubtful or location of adjacent or nearby)
Contour on Feature, etc.	Timberline (road at doubtful or location of adjacent or nearby)
Flooded Land	Timberline (road at doubtful or location of adjacent or nearby)
Lock	Timberline (road at doubtful or location of adjacent or nearby)
Marsh or Swamp	Timberline (road at doubtful or location of adjacent or nearby)
Moat	Timberline (road at doubtful or location of adjacent or nearby)
Mine Head Frame	Timberline (road at doubtful or location of adjacent or nearby)
Outcrop	Timberline (road at doubtful or location of adjacent or nearby)

**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

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.



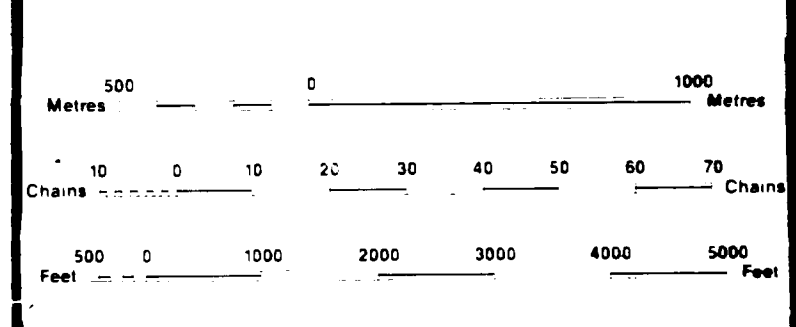
**LEGEND**

HIGHWAY AND ROUTE No	Other Roads
TRAILS	SURVEYED LINES
TOWNSHIPS, BASE LINES, ETC	LOT LINES
LOTS, MINING CLAIMS, PARCELS, ETC	PARCEL BOUNDARY
UNSURVEYED LINES	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 MUSKIE
MINES	MINES
TRAVEL MONUMENT	

**DISPOSITION OF CROWN LANDS**

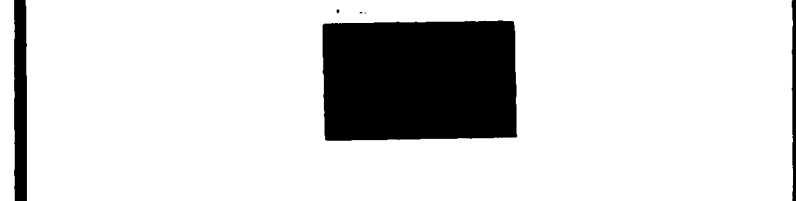
TYPE OF DOCUMENT	SYMBOL
PATENT SURFACE & MINING RIGHTS	●
SURFACE RIGHTS ONLY	○
MINING RIGHTS ONLY	◐
LEASE SURFACE & MINING RIGHTS	◑
SURFACE RIGHTS ONLY	◒
MINING RIGHTS ONLY	◓
LICENCE OF OCCUPATION	OC
RESERVATION	OC
CANCELLED	OC
SAND & GRAVEL	OC

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6 1912 VESTED IN ORIGINAL PATENTERS BY THE PUBLIC LANDS ACT R.S.O. 1970 CHAP. 380 SEC. 63 SUBSEC. 1



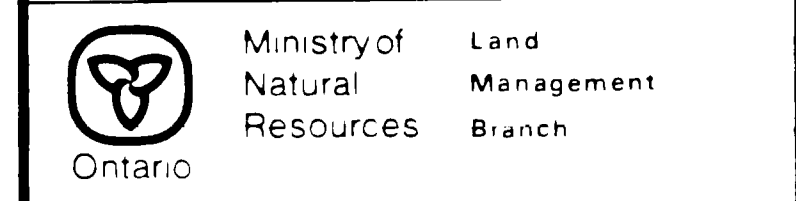
SCALE 1:20 000  
 GRID ZONE: 17  
 NOTES

F-1 SUBJECT TO FORESTRY ACTIVITY IN 1994/95.  
 SEND AND DRAW.  
 FILE # 602 17 92-14 117061 12 E JAN 1 14



2.17061 not updated

TOWNSHIP  
**MURPHY**  
 M.N.R. ADMINISTRATIVE DISTRICT  
**TIMMINS**  
 MINING DIVISION  
**PORCUPINE**  
 LAND TITLES / REGISTRY DIVISION  
**COCHRANE**



ORIG. COMPILATION: JULY 1984  
 REVISED: **G-3980**



2-3980

MWT YH9AUM

G-3980



LOT 9

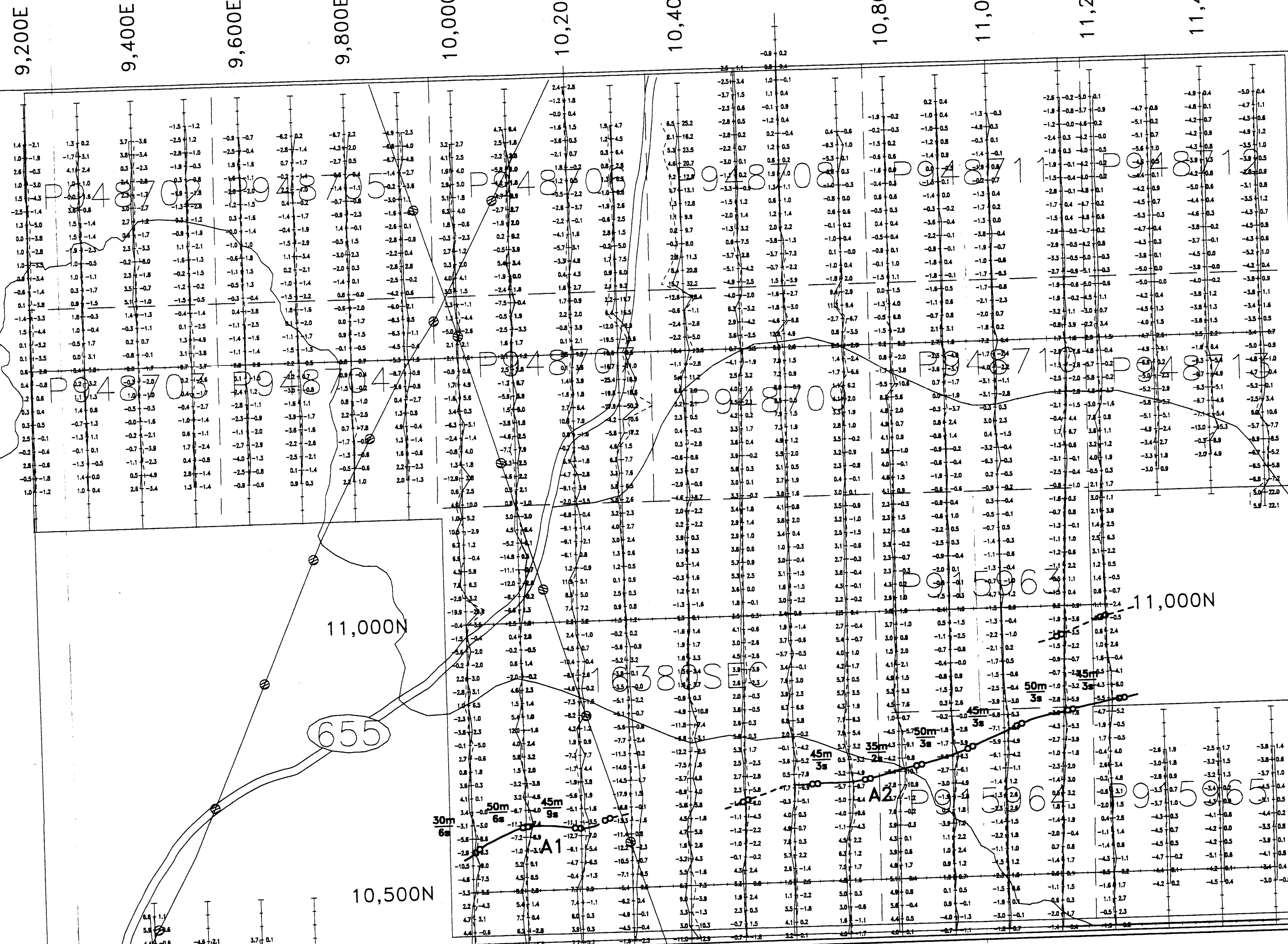
LOT 8

LOT 7

LOT 6

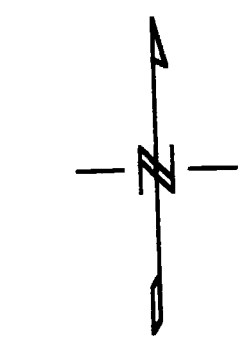
LOT 5

LOT 4



CON 1

MURPHY TWP



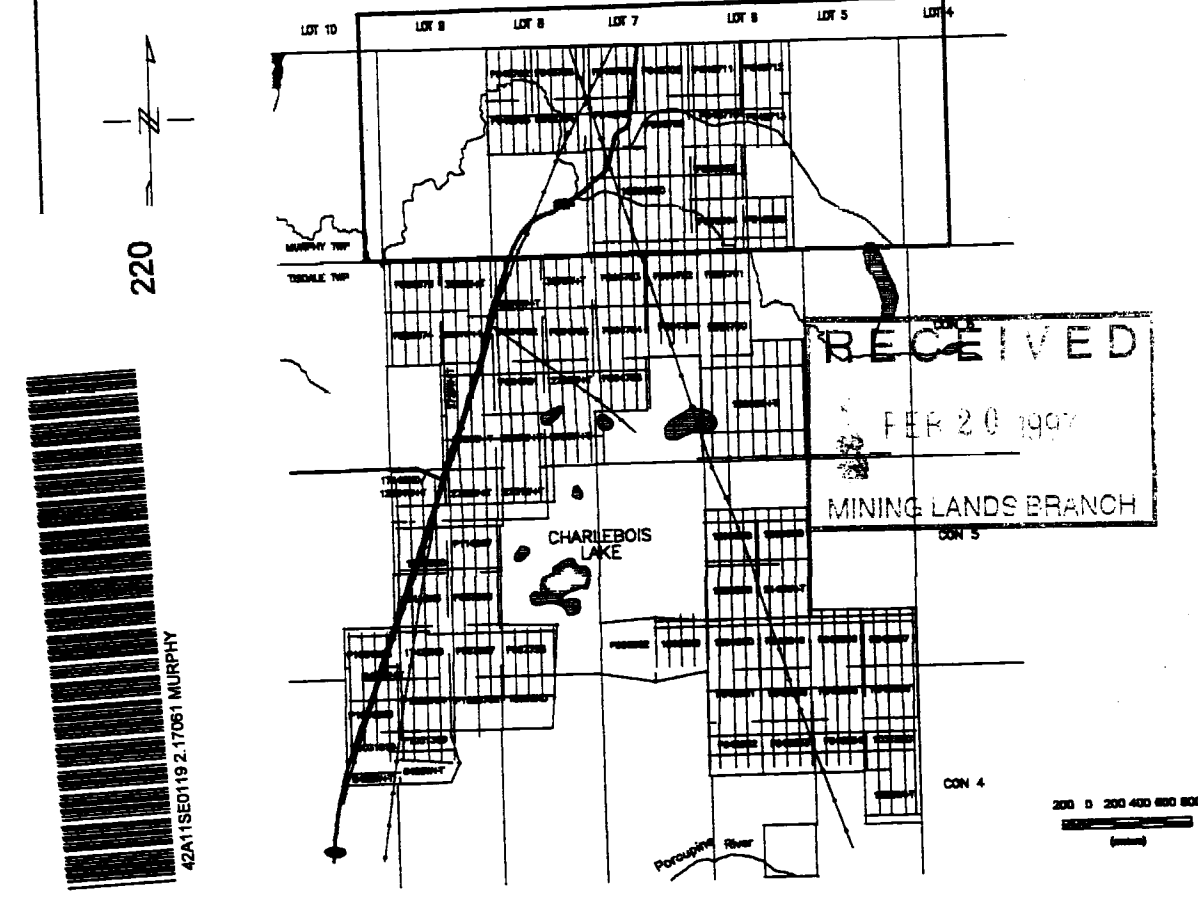
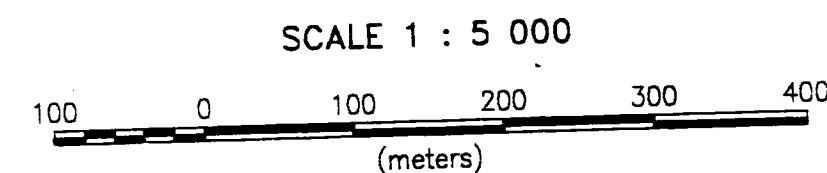
**LEGEND**

**ELECTROMAGNETIC PROFILES**

— In-phase 1 cm. = 40 %  
 - - - Out-of-phase 1 cm. = 40 %

Readings: In-Phase % 1 | -1 Out-of-phase %

Instrument: APEX, MAXMIN I



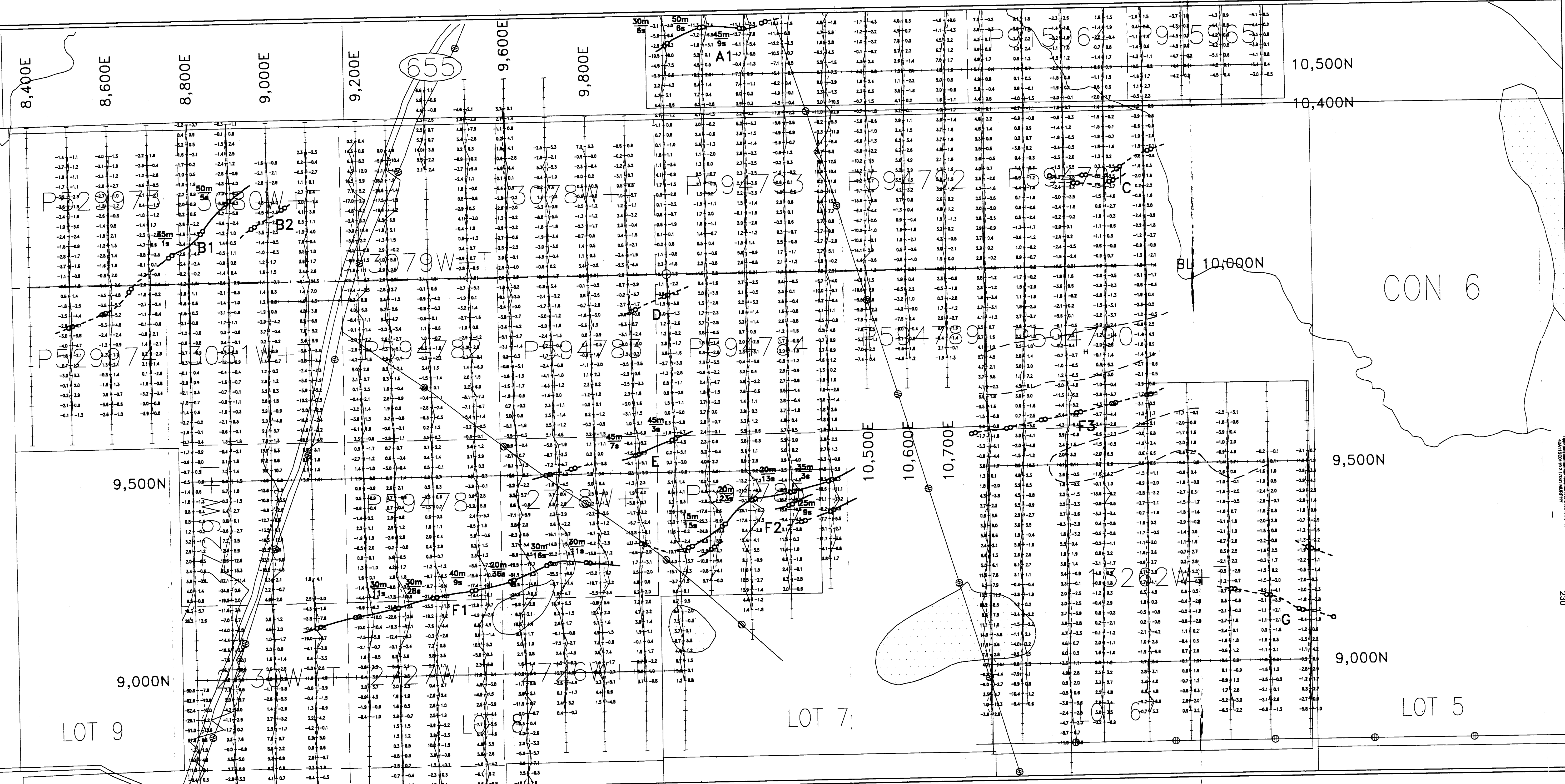
**PLACER DOME CANADA LTD**  
**MONETA PROPERTY**  
**2.170 61 SHEET-1**

**HEM ELECTROMAGNETIC SURVEY**  
 FREQUENCY = 440 Hz CABLE = 150 m.

**VAL D'OR GEOPHYSICS LTD**

Interpreted by: P. Boileau, P.Eng. Date: 06/96  
 Scale 1 : 5 000 Drawing no: 96-1326-3.2

MURPHY TWP  
TISDALE TWP



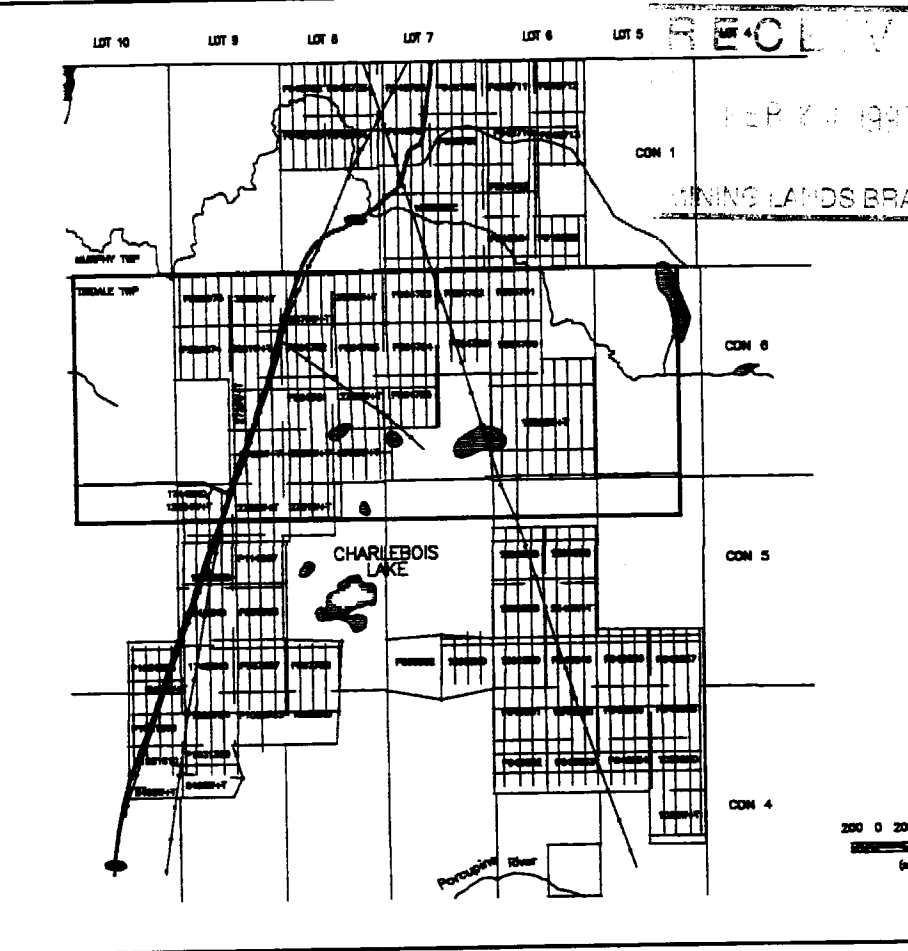
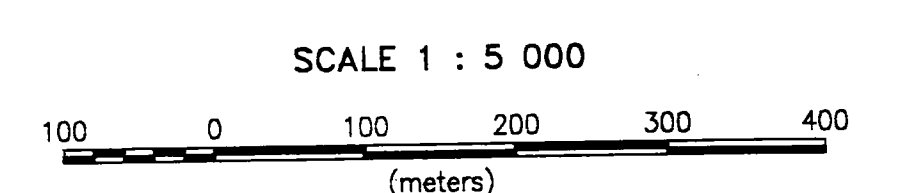
**LEGEND**

**ELECTROMAGNETIC PROFILES**

— In-phase 1 cm. = 40 %  
 - - - Out-of-phase 1 cm. = 40 %

Readings: In-phase %    Out-of-phase %

Instrument: APEX, MAXMIN I



**PLACER DOME CANADA LTD**  
**MONETA PROPERTY**  
**2.17061 SHEET-2**  
**HEM ELECTROMAGNETIC SURVEY**  
 FREQUENCY = 440 Hz CABLE = 150 m.

**VAL D'OR GEOPHYSICS LTD**

Interpreted by: P. Boileau, P.Eng. Date: 06/96  
 Scale 1 : 5 000 Drawing no: 96-1326-3.2

LOT 10

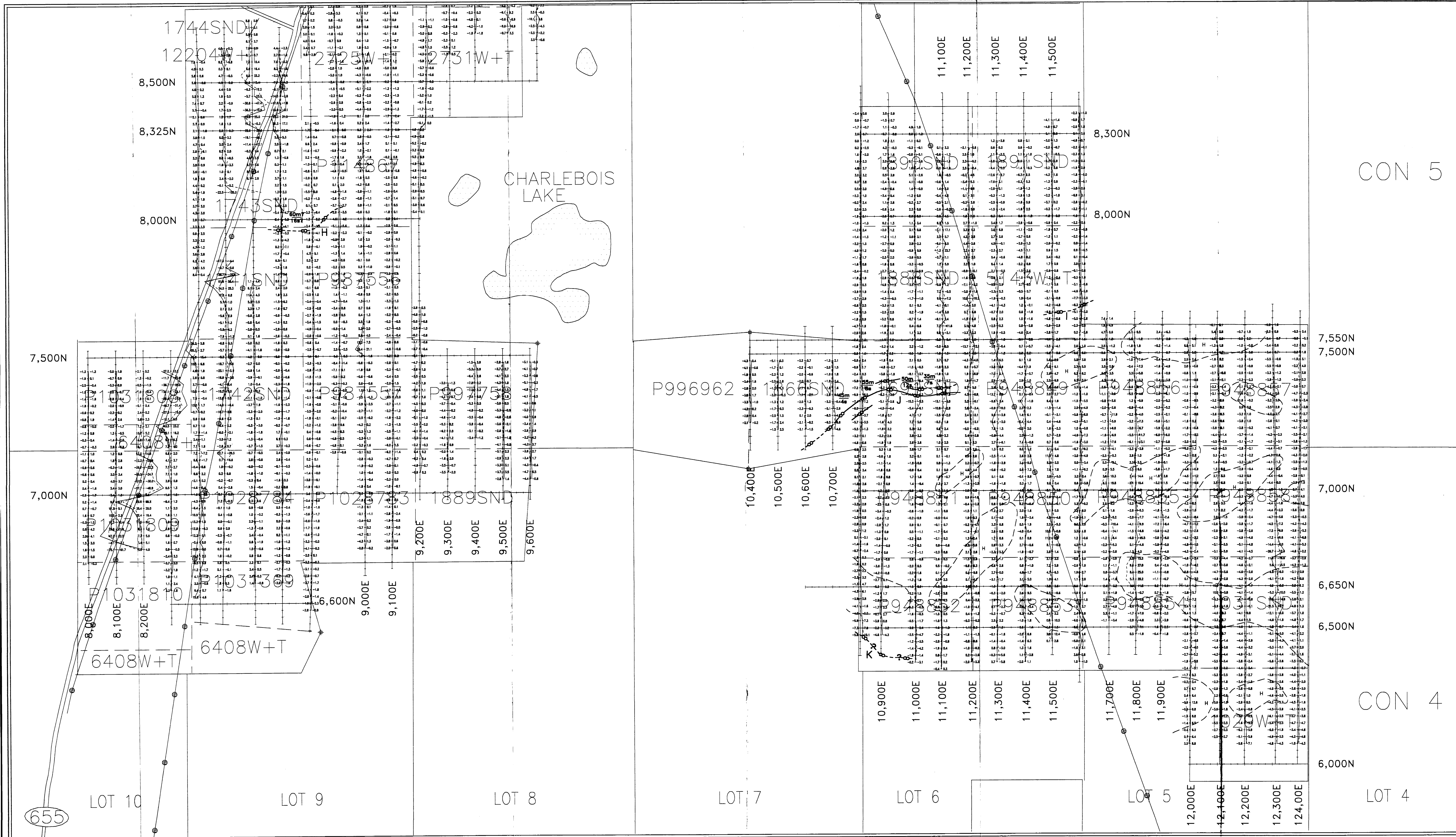
LOT 9

LOT 7

LOT 5

230





**LEGEND**

**INTERPRETATION**

- Relatively low resistivity unit with respect to immediate surroundings. Bedrock valley, thicker overburden, with or without an associated structure.
- Relatively high resistivity unit with respect to immediate surroundings. Bedrock ridge, thinner overburden, more resistive lithological unit.
- Well-defined HEM bedrock conductor. Definitely metallic causes, continuous, massive to semi-massive mineralization.
- Poorly-defined HEM conductor. Discontinuous, stringer or disseminated mineralization; or electrolytic conductive structure.
- Depth (metres), conductance (Siemens)
- Interpreted shear zone.
- Interpreted fault.

**ELECTROMAGNETIC PROFILES**

- In-phase 1 cm. = 40 %
- Out-of-phase 1 cm. = 40 %

Readings: In-Phase %    Out-of-phase %

Instrument: APEX, MAXMIN I

SCALE 1 : 5 000

**PLACER DOME CANADA LTD**  
**MONETA PROPERTY**  
**2.170 C SHEET-3**

**HEM ELECTROMAGNETIC SURVEY**  
 FREQUENCY = 440 Hz CABLE = 150 m.

**VAL D'OR GEOPHYSICS LTD**

Interpreted by: P. Boileau, P.Eng.      Date: 06/96  
 Scale 1 : 5 000      Drawing no: 96-1326-3.2





MURPHY TWP

TISDALE TWP

8,400E

8,600E

8,800E

9,000E

9,200E

9,400E

9,600E

9,800E

BL 10,000N

10,500N

10,400N

9,500N

9,000N

9,500N

9,000N

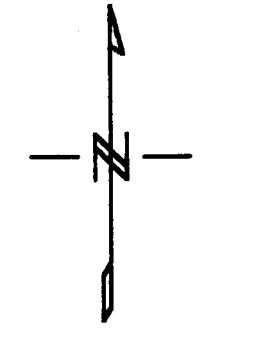
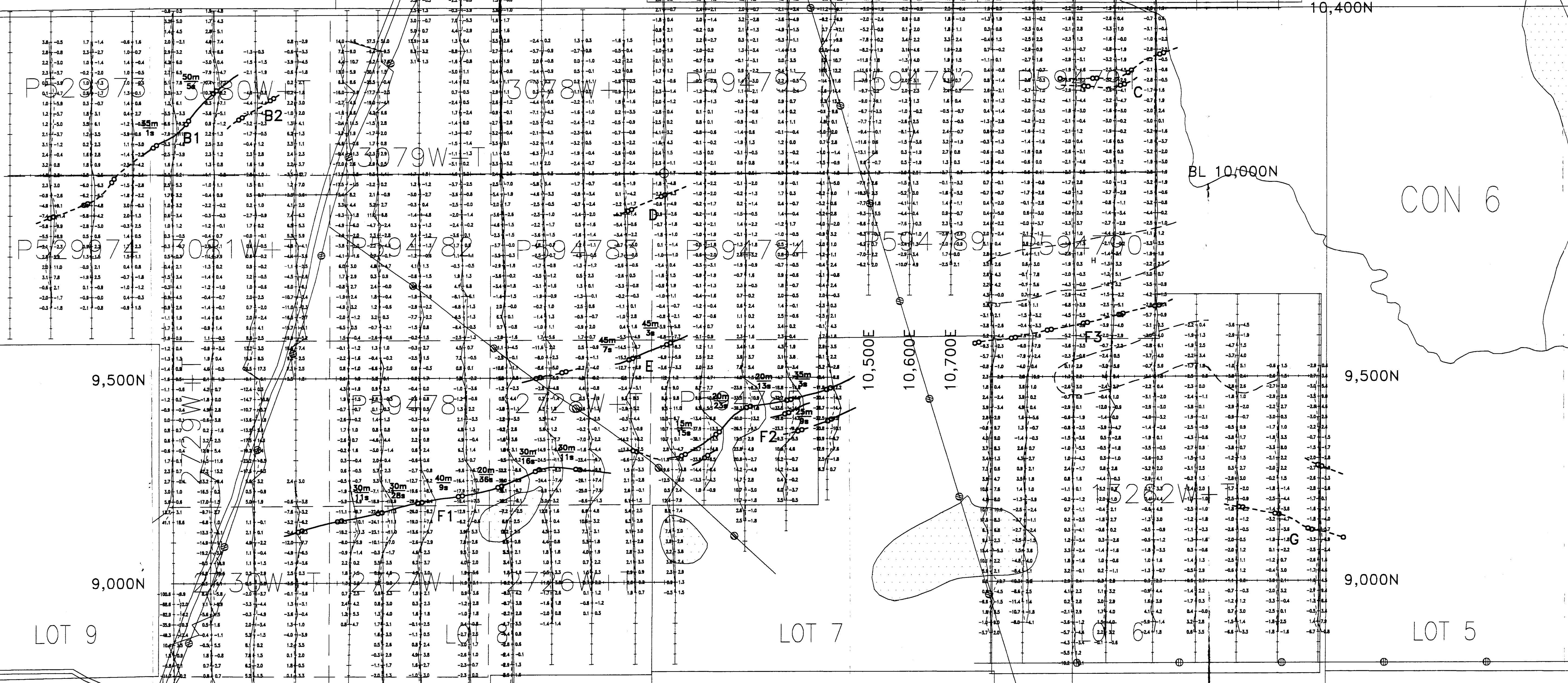
LOT 10

LOT 9

LOT 7

LOT 5

CON 6



**LEGEND**

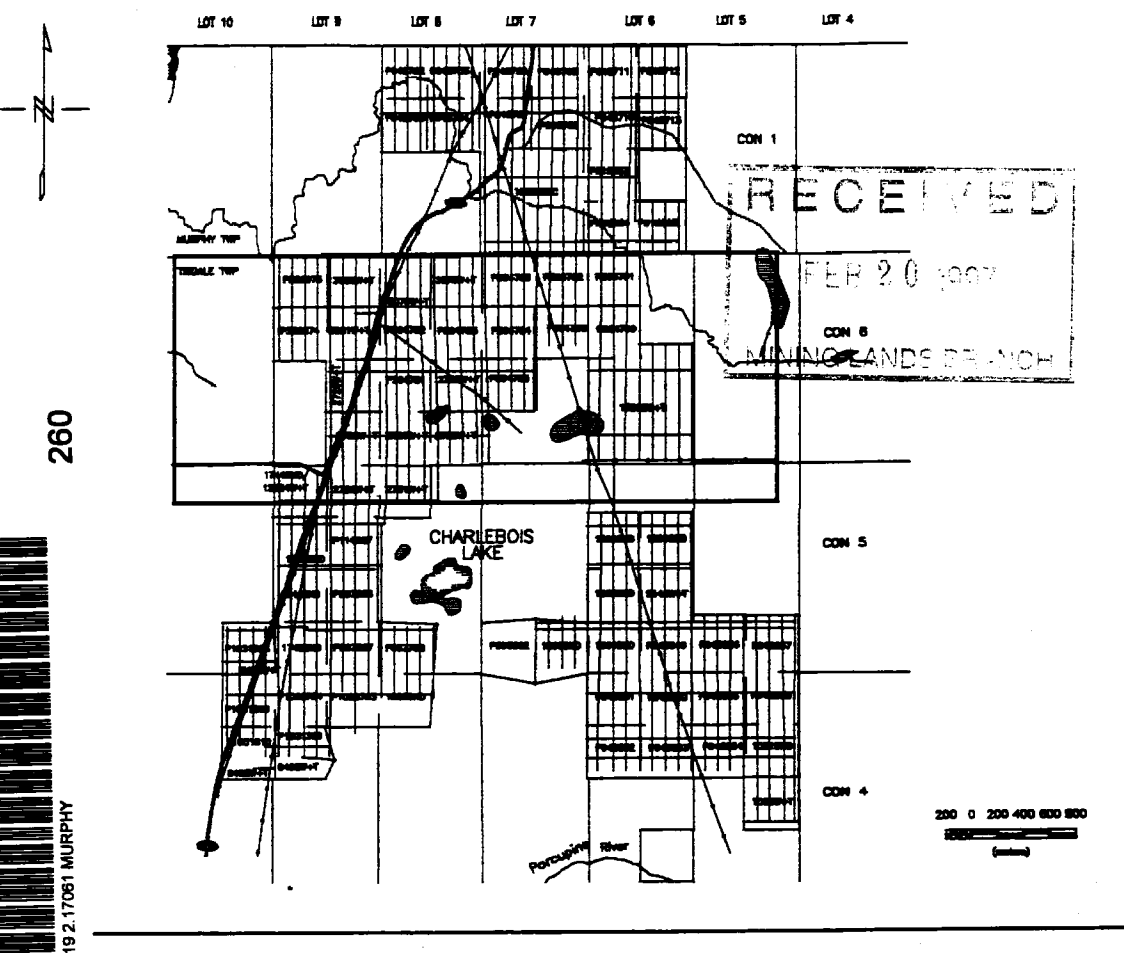
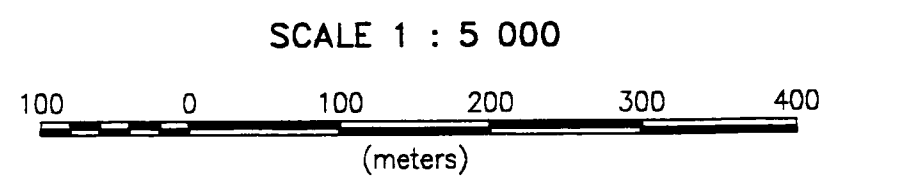
**ELECTROMAGNETIC PROFILES**

— In-phase 1 cm. = 40 %

- - - Out-of-phase 1 cm. = 40 %

Readings: In-Phase % | Out-of-phase %

Instrument: APEX, MAXMIN I



**PLACER DOME CANADA LTD**

**MONETA PROPERTY**

**2.17061 SHEET-2**

**HEM ELECTROMAGNETIC SURVEY**

FREQUENCY = 1760 Hz CABLE = 150 m.

**VAL D'OR GEOPHYSICS LTD**

Interpreted by: P. Boileau, P.Eng. Date: 06/96

Scale 1 : 5 000 Drawing no: 96-1326-3.4







LOT 9

LOT 8

LOT 7

LOT 6

LOT 5

LOT 4

9,200E

9,400E

9,600E

9,800E

10,000E

10,200E

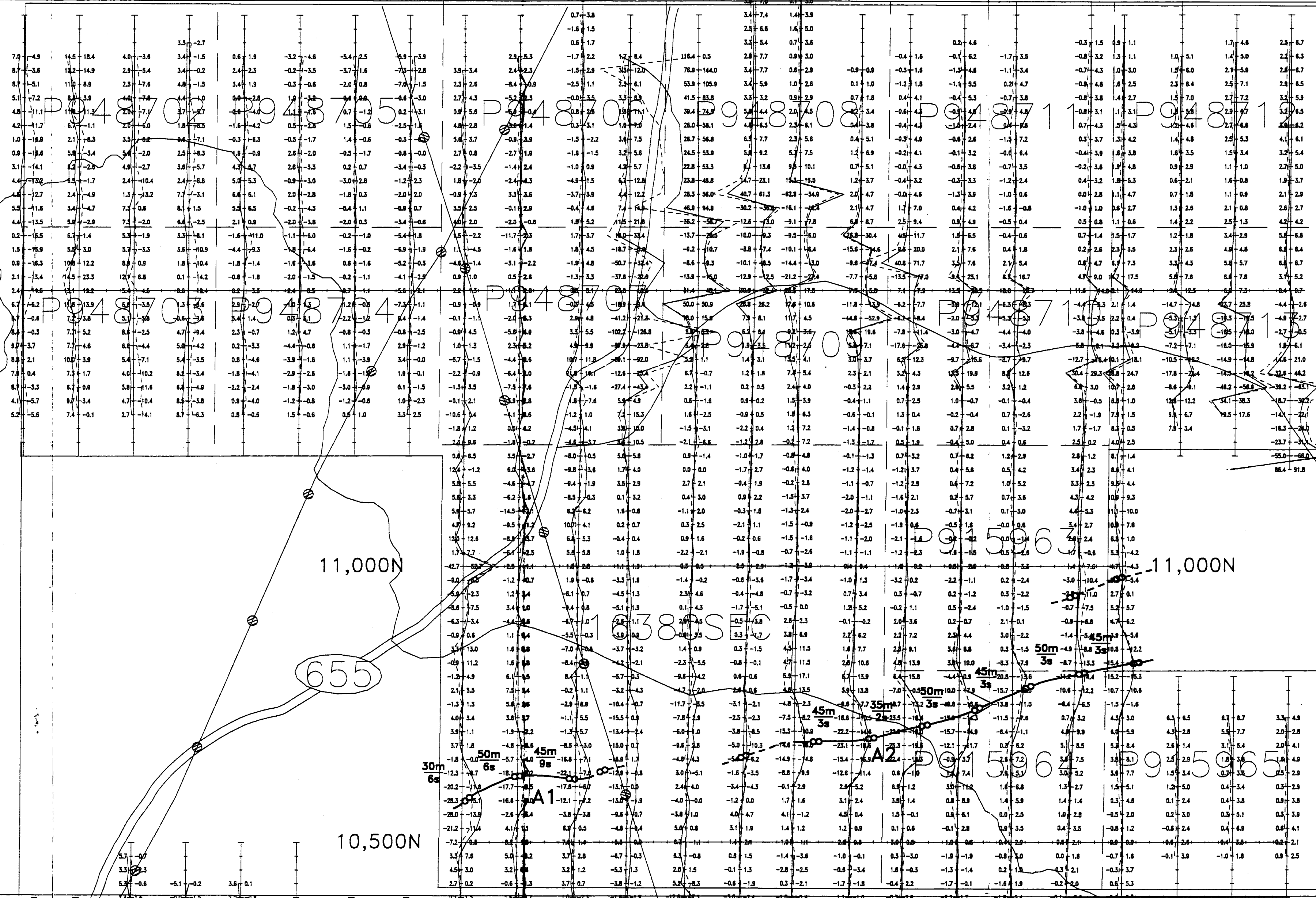
10,400E

10,800E

11,000E

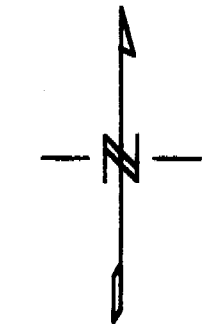
11,200E

11,400E



MURPHY TWP

CON 1



**LEGEND**

**ELECTROMAGNETIC PROFILES**

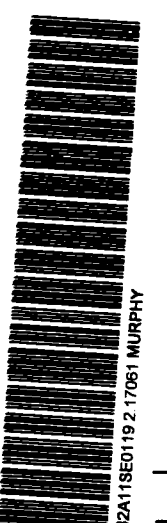
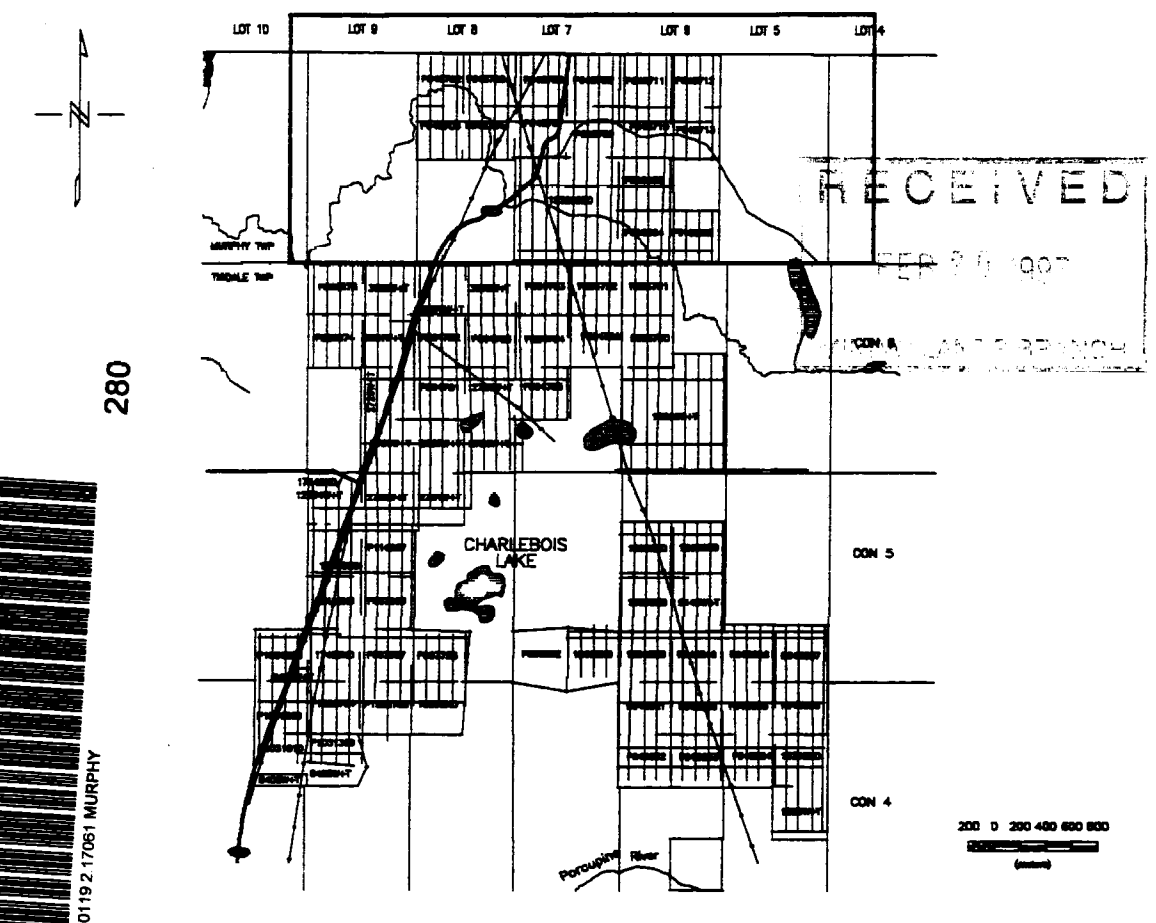
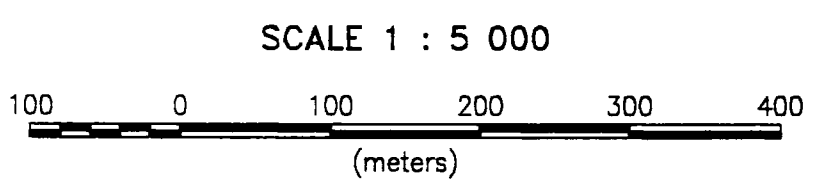
— In-phase 1 cm. = 40 %

- - - Out-of-phase 1 cm. = 40 %

Readings: In-Phase 1+1 Out-of-phase 1-1

% %

Instrument: APEX, MAXMIN I



**PLACER DOME CANADA LTD**

**MONETA PROPERTY**

**2.17061 SHEET-1**

**HEM ELECTROMAGNETIC SURVEY**

FREQUENCY = 3520 Hz CABLE = 150 m.

**VAL D'OR GEOPHYSICS LTD**

Interpreted by: P. Boileau, P.Eng. Date: 06/96

Scale 1 : 5 000 Drawing no: 96-1326-3.5

MURPHY TWP

TISDALE TWP

8,400E

8,600E

8,800E

9,000E

9,200E

9,600E

9,800E

BL 10,000N

BL 10,000N

10,500N

10,400N

9,500N

9,500N

9,000N

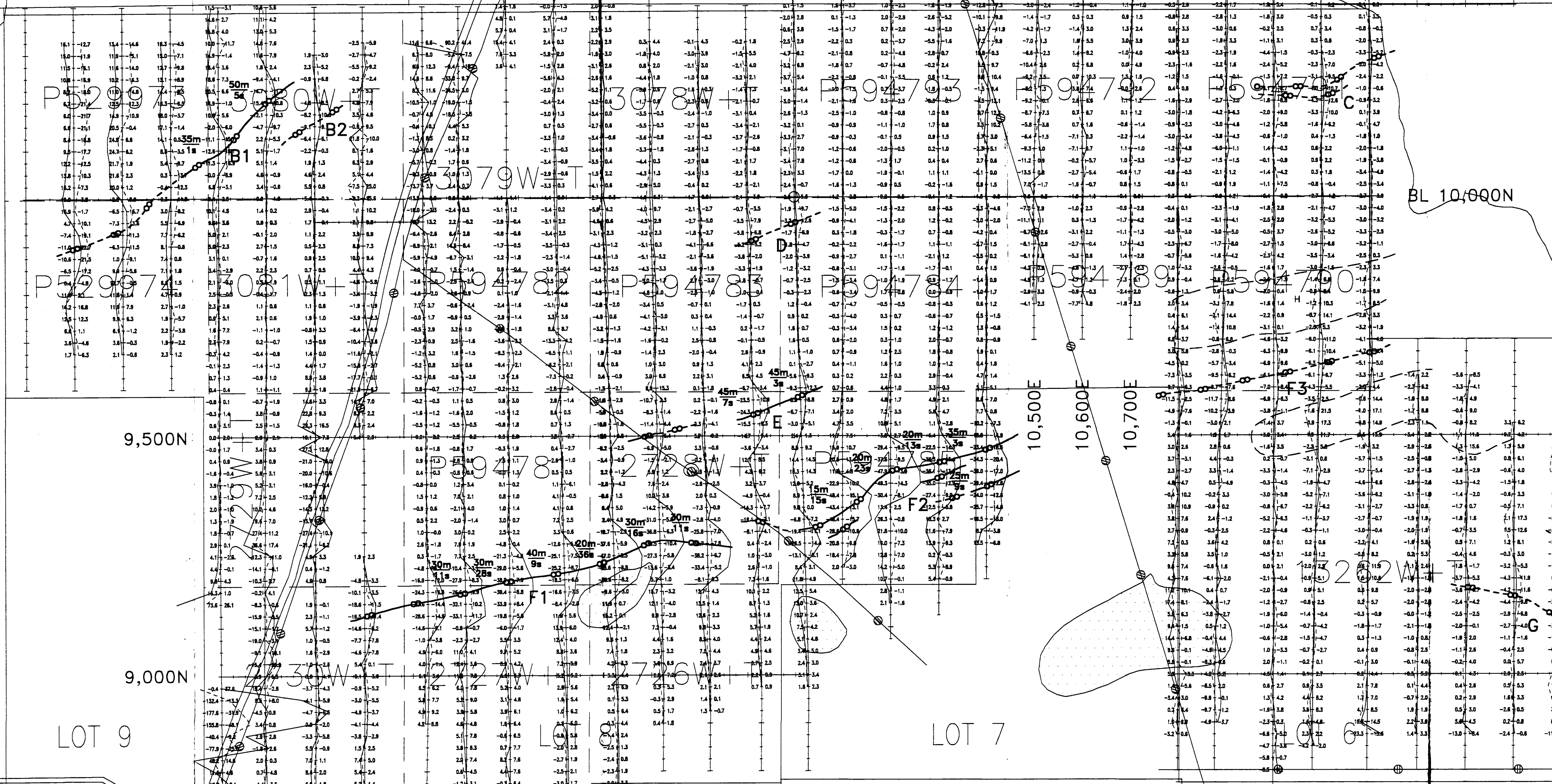
9,000N

LOT 10

LOT 9

LOT 7

LOT 5



LEGEND

**ELECTROMAGNETIC PROFILES**

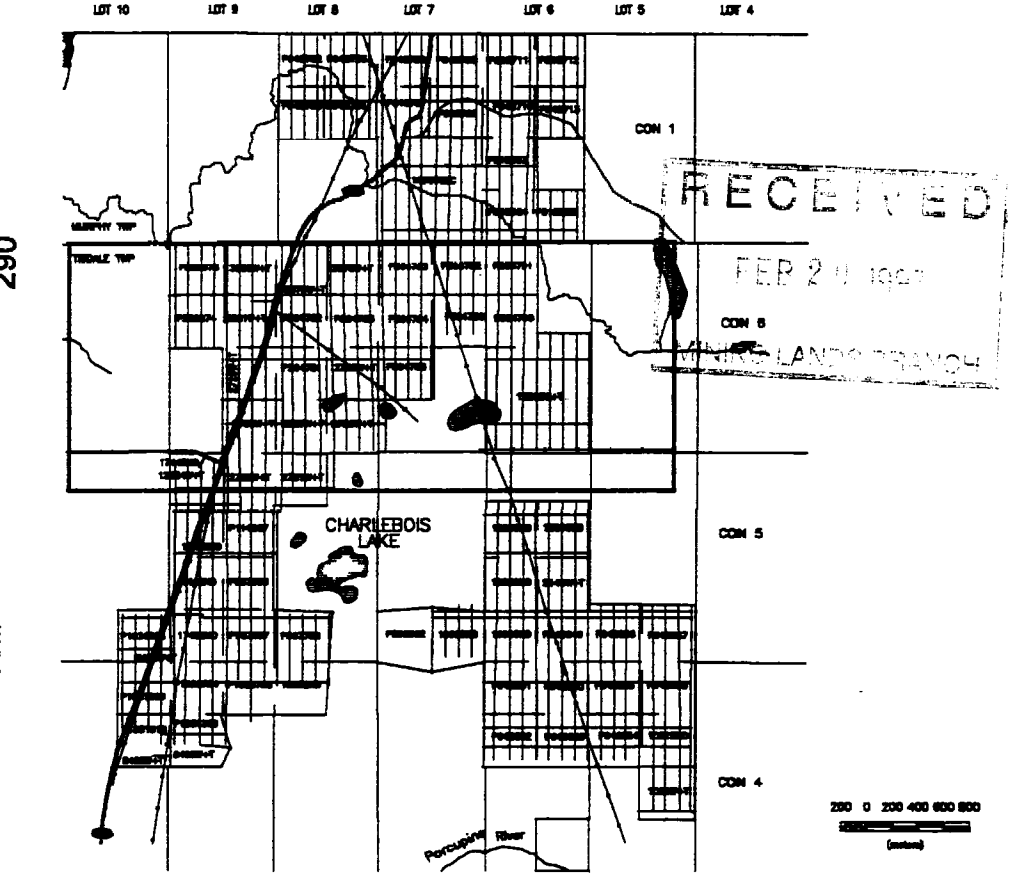
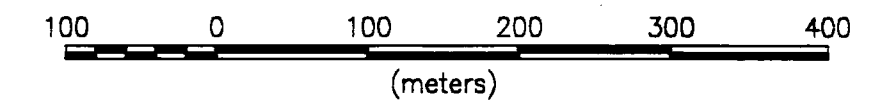
— In-phase 1 cm. = 40 %

- - - Out-of-phase 1 cm. = 40 %

Readings: In-Phase 1+1 Out-of-phase 1-1

Instrument: APEX, MAXMIN I

SCALE 1 : 5 000



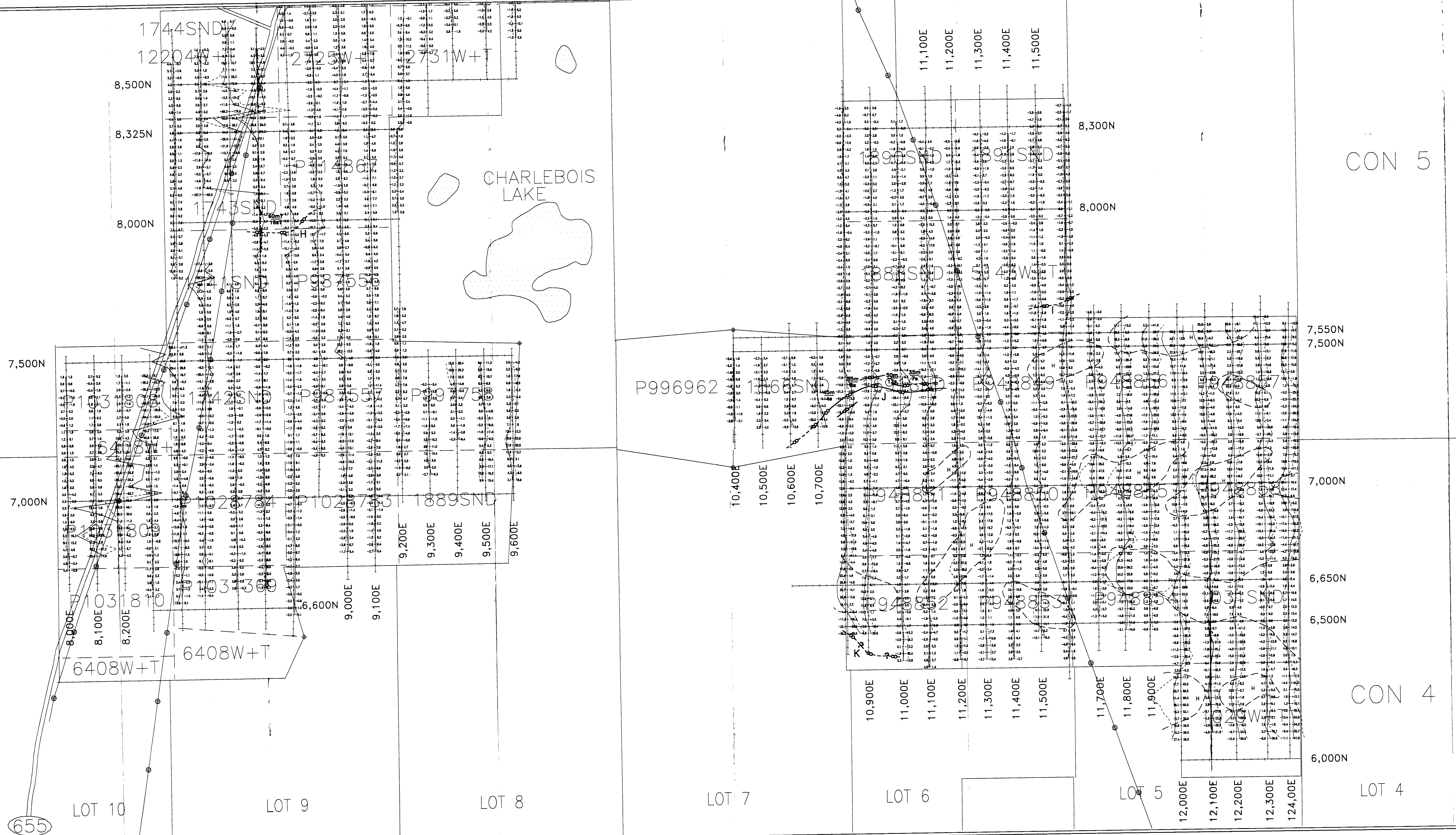
**PLACER DOME CANADA LTD**  
**MONETA PROPERTY**  
**9.17C 61 SHEET-2**

**HEM ELECTROMAGNETIC SURVEY**  
 FREQUENCY = 3520 Hz CABLE = 150 m.

VAL D'OR GEOPHYSICS LTD

Interpreted by: P. Boileau, P.Eng. Date: 06/96  
 Scale 1 : 5 000 Drawing no: 96-1326-3.5





**LEGEND**

**INTERPRETATION**

- Relatively low resistivity unit with respect to immediate surroundings. Bedrock valley, thicker overburden, with or without an associated structure.
- Relatively high resistivity unit with respect to immediate surroundings. Bedrock ridge, thinner overburden, more resistive lithological unit.
- Well-defined HEM bedrock conductor. Definitely metallic causes, continuous, massive to semi-massive mineralization.
- Poorly-defined HEM conductor. Causes possibly metallic. Discontinuous, stringer or disseminated mineralization; or electrolytic: conductive structure.
- Depth (metres), conductance (Siemens)
- Interpreted shear zone.
- Interpreted fault.

**ELECTROMAGNETIC PROFILES**

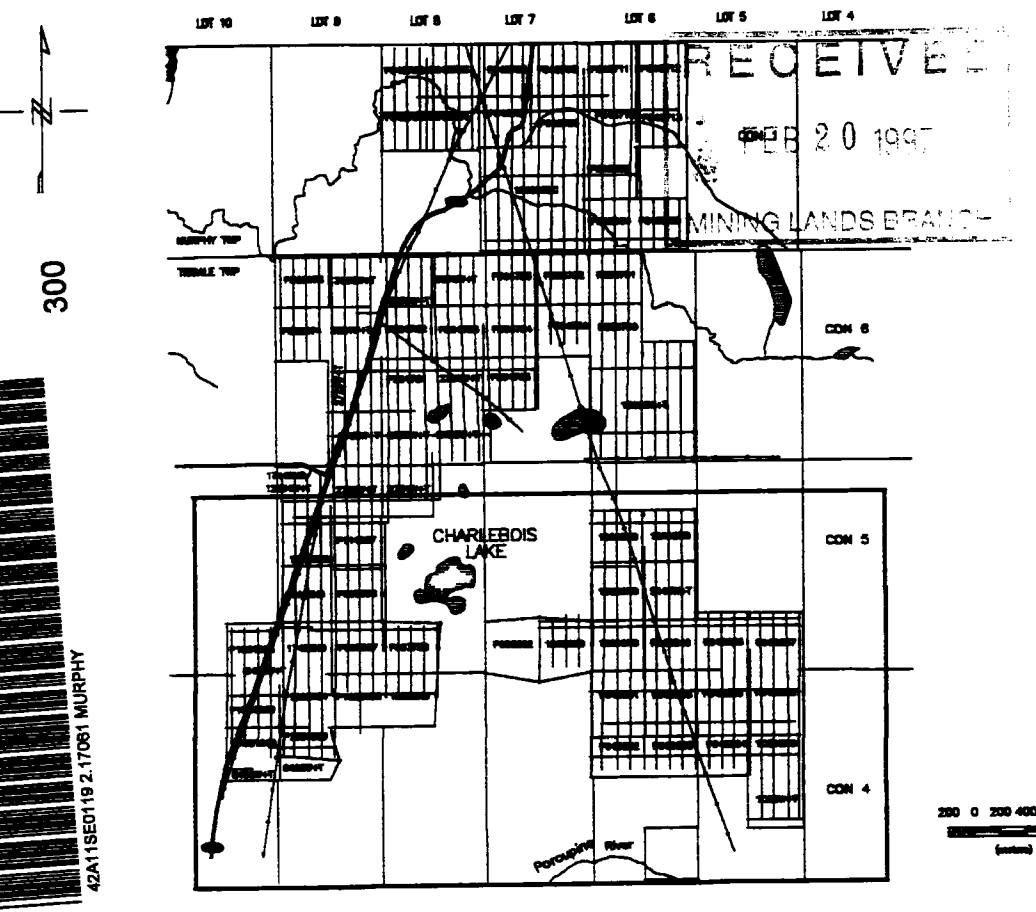
- In-phase 1 cm. = 40 %
- Out-of-phase 1 cm. = 40 %

Readings: In-Phase %    Out-of-phase %

Instrument: APEX, MAXMIN I

SCALE 1 : 5 000

100 0 100 200 300 400 (metres)



**PLACER DOME CANADA LTD**  
**MONETA PROPERTY**  
**17061 SHEET-3**  
**HÉM ELECTROMAGNETIC SURVEY**  
 FREQUENCY = 3520 Hz CABLE = 150 m.

**VAL D'OR GEOPHYSICS LTD**

Interpreted by: P. Boileau, P.Eng.    Date: 06/96  
 Scale 1 : 5 000    Drawing no: 96-1326-3.5

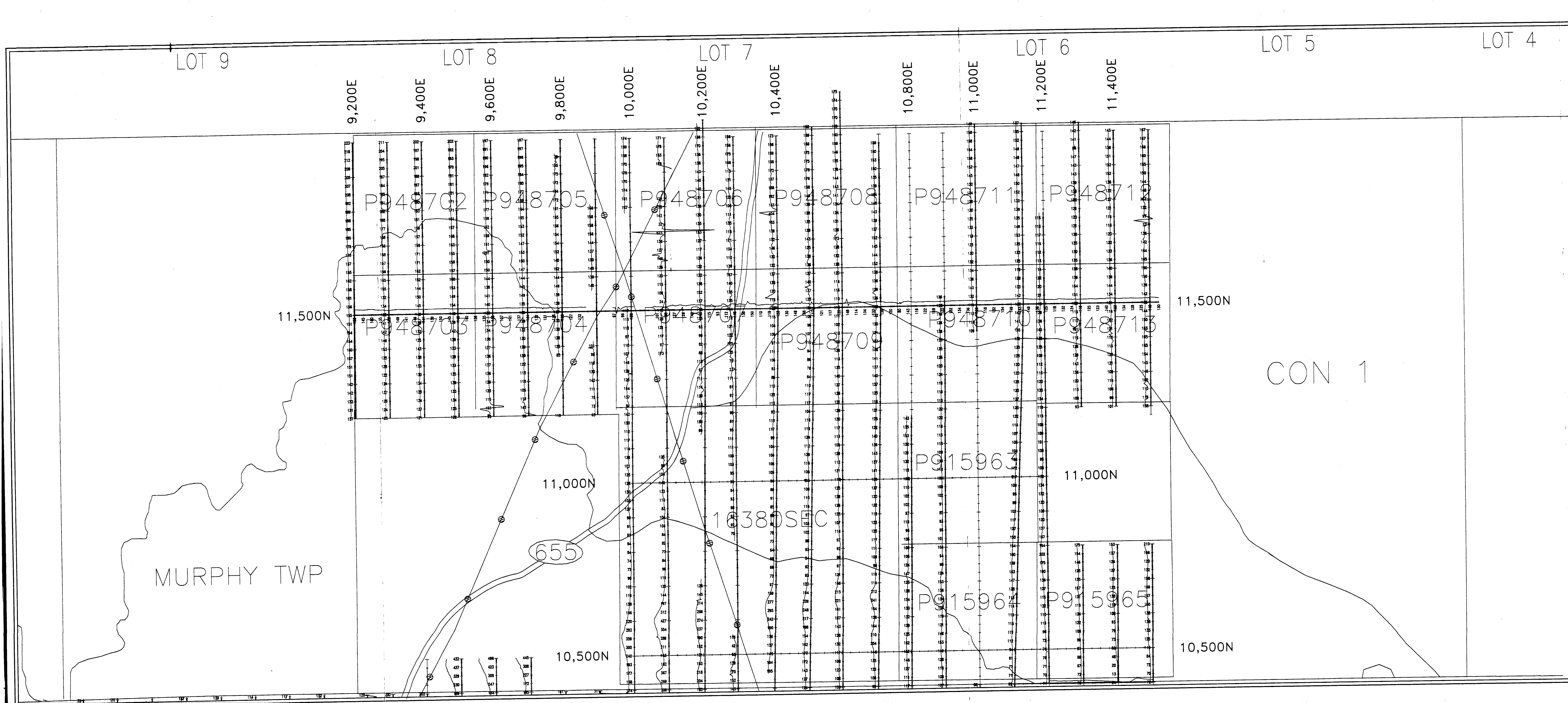
CON 5

CON 4

LOT 4

655

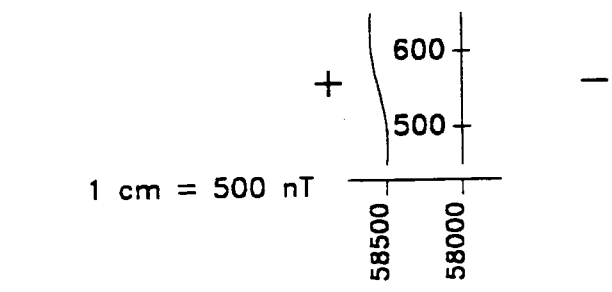




**LEGEND**

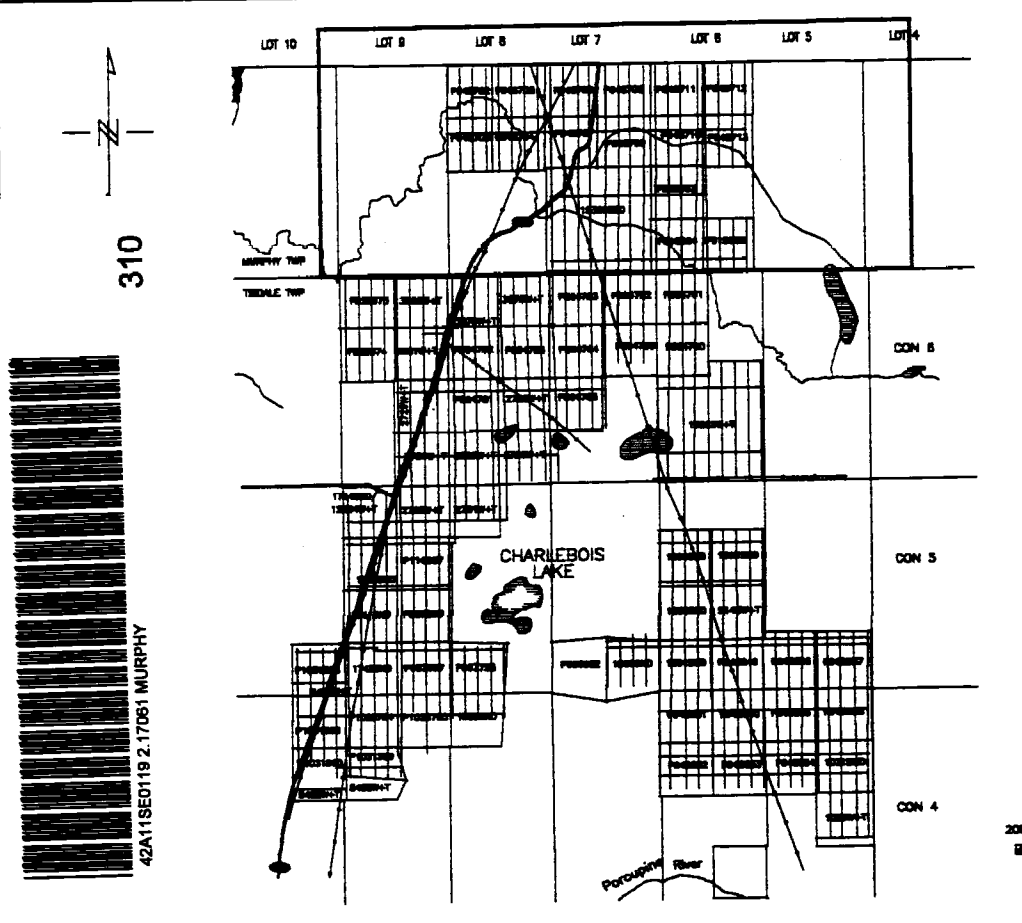
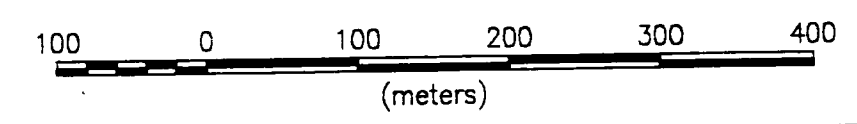
**MAGNETIC PROFILES**

Readings: Total field - 58000 nT



Instrument: Magnetometer GEM, GSM-19

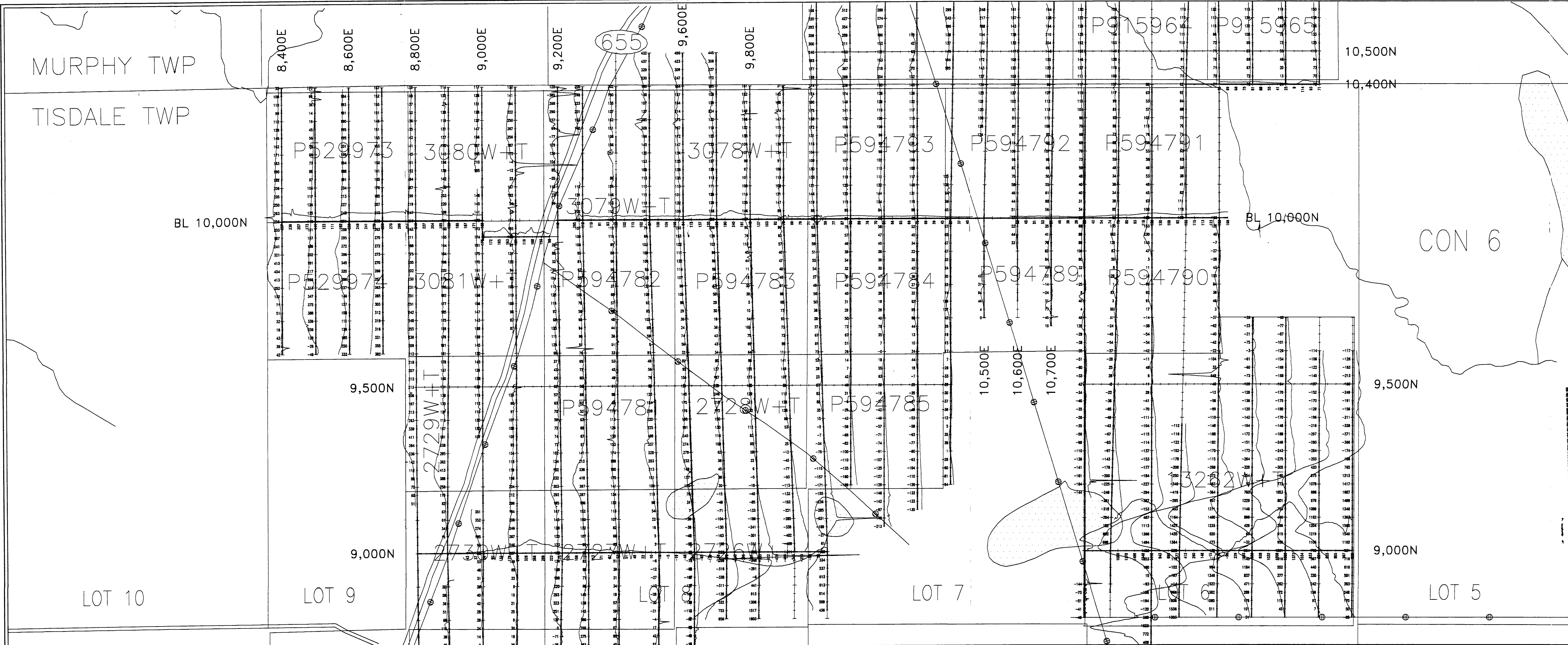
SCALE 1 : 5 000



**PLACER DOME CANADA LTD**  
**MONETA PROPERTY RECEIVED**  
**2.17061 SHEET-1** FEB 24 1997  
MINING LAWS BRANCH

**MAGNETIC SURVEY**  
**TOTAL FIELD PROFILES**  
**VAL D'OR GEOPHYSICS LTD**

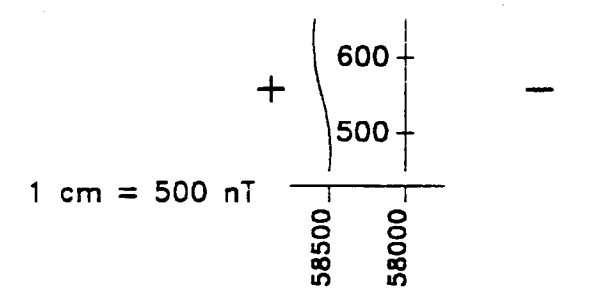
Interpreted by: P. Boileau, P.Eng. Date: 06/96  
 Scale 1 : 5 000 Drawing no: 96-1326-1.2



**LEGEND**

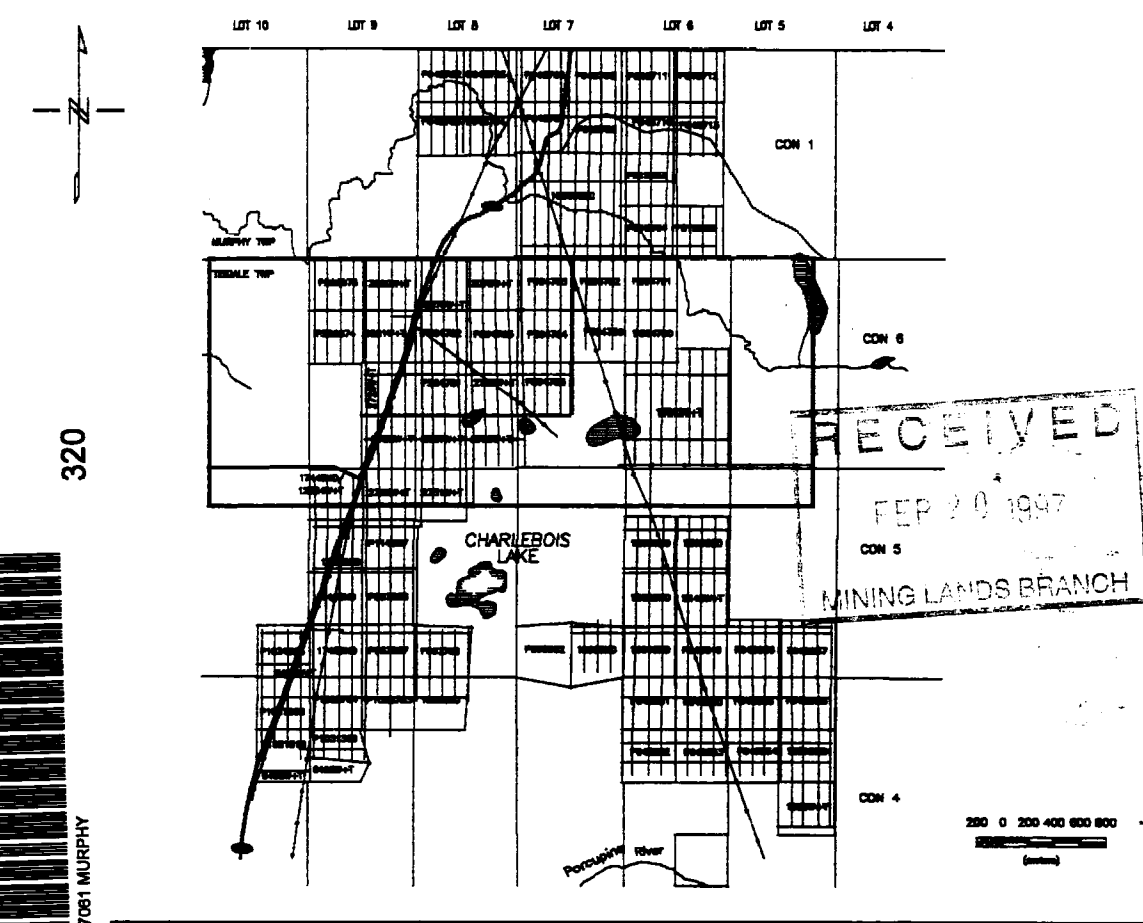
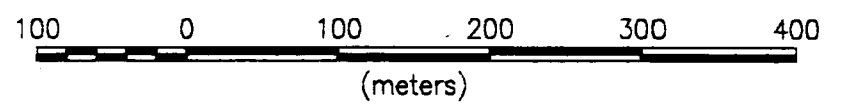
**MAGNETIC PROFILES**

Readings: Total field - 58000 nT



Instrument: Magnetometer GEM, GSM-19

SCALE 1 : 5 000



**PLACER DOME CANADA LTD**

**MONETA PROPERTY**

**2.17C61 SHEET-2**

**MAGNETIC SURVEY**

**TOTAL FIELD PROFILES**

**VAL D'OR GEOPHYSICS LTD**

Interpreted by: P. Boileau, P.Eng.

Date: 06/96

Scale 1 : 5 000

Drawing no: 96-1326-1.2







LOT 9

LOT 8

LOT 7

LOT 6

LOT 5

LOT 4

9,200E

9,400E

9,600E

9,800E

10,000E

10,200E

10,400E

10,800E

11,000E

11,200E

11,400E

11,500N

11,500N

11,000N

11,000N

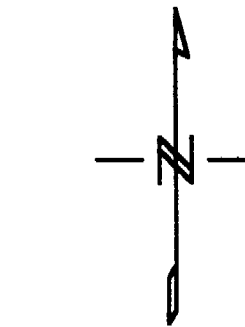
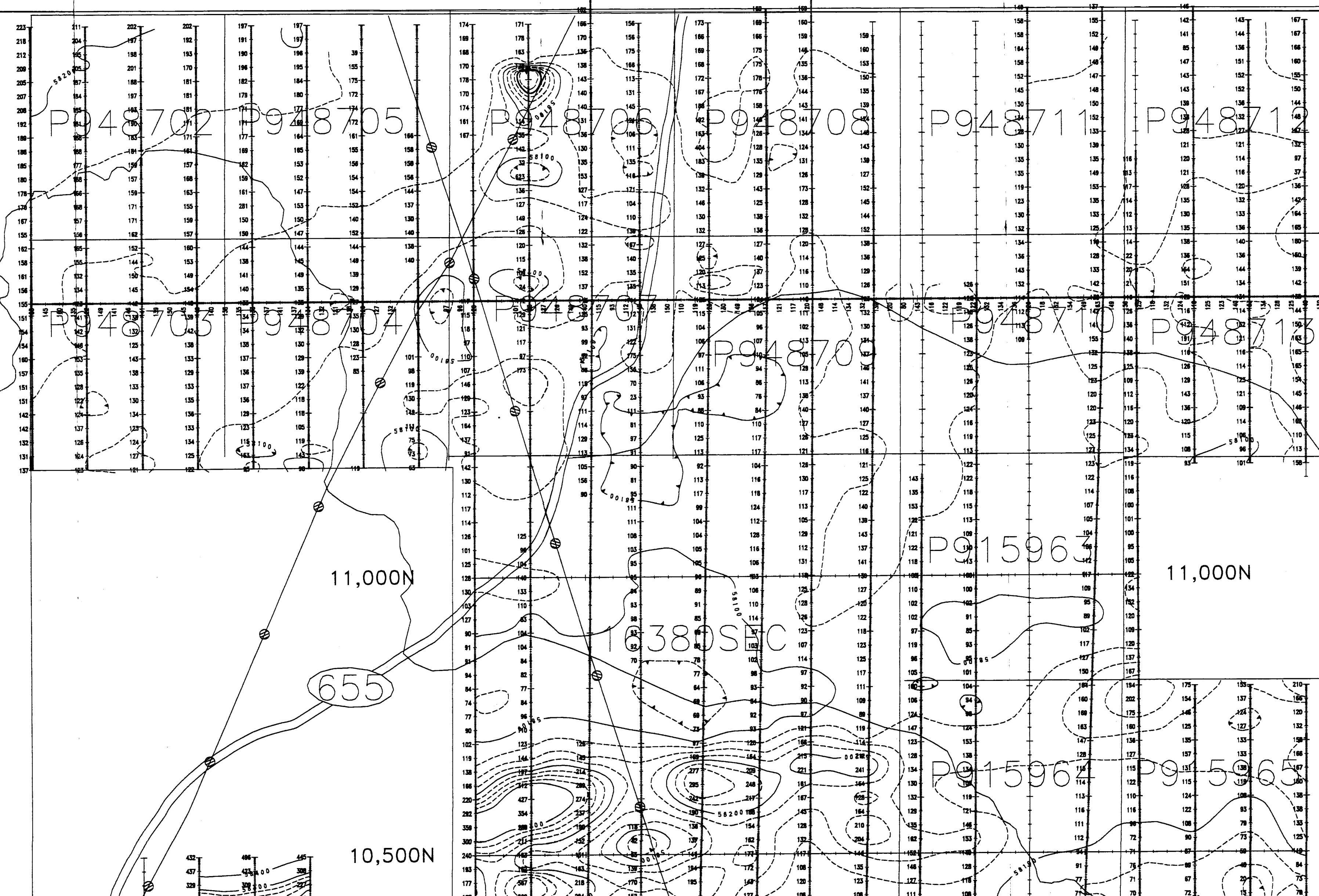
10,500N

10,500N

MURPHY TWP

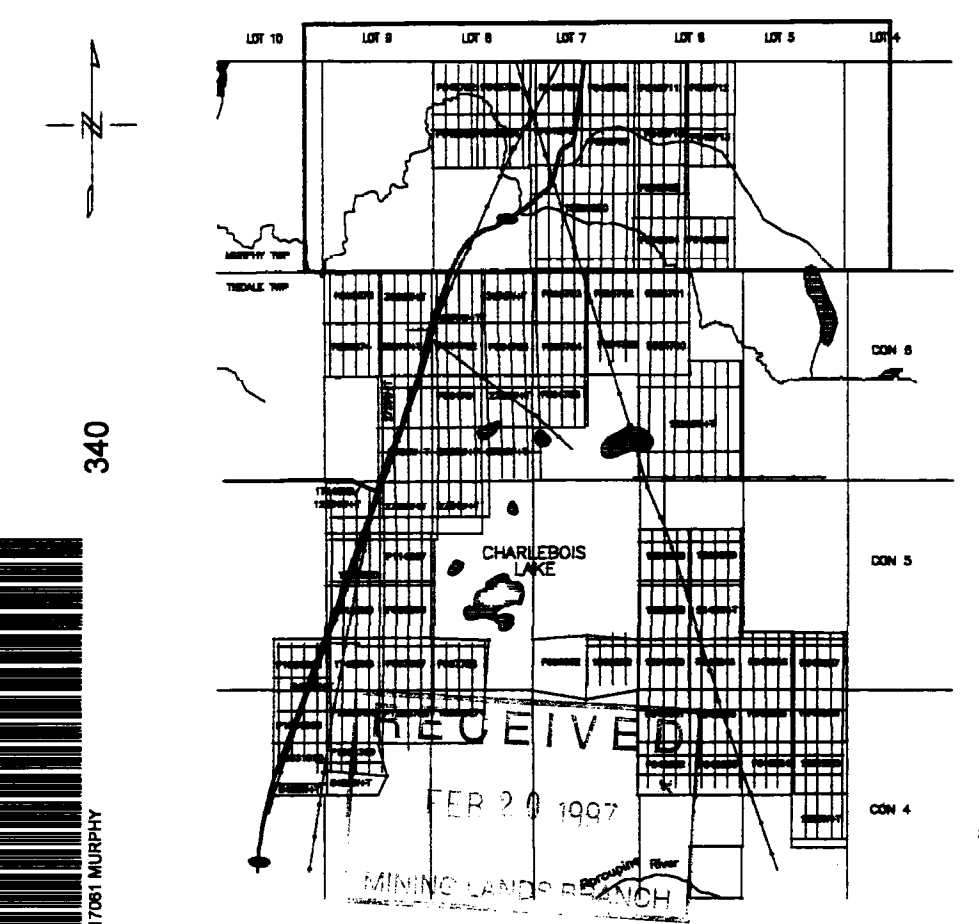
655

CON 1



**LEGEND**  
**CONTOUR INTERVALS (nanoTesla)**  
 - - - - 25 to 58300 nT  
 ——— 100  
 ——— 500  
 Readings: Total field - 58000 nT  
 Instrument: Magnetometer GEM, GSM-19

SCALE 1 : 5 000  
 100 0 100 200 300 400  
 (meters)



**PLACER DOME CANADA LTD**  
**MONETA PROPERTY**  
**P.17061 SHEET-1**  
**MAGNETIC SURVEY**  
**TOTAL FIELD CONTOURS**  
**VAL D'OR GEOPHYSICS LTD**

Interpreted by: P. Boileau, P.Eng. Date: 06/96  
 Scale 1 : 5 000 Drawing no: 96-1326-1.1



MURPHY TWP

TISDALE TWP

BL 10,000N

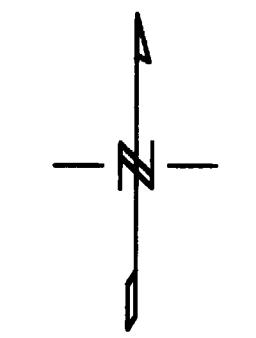
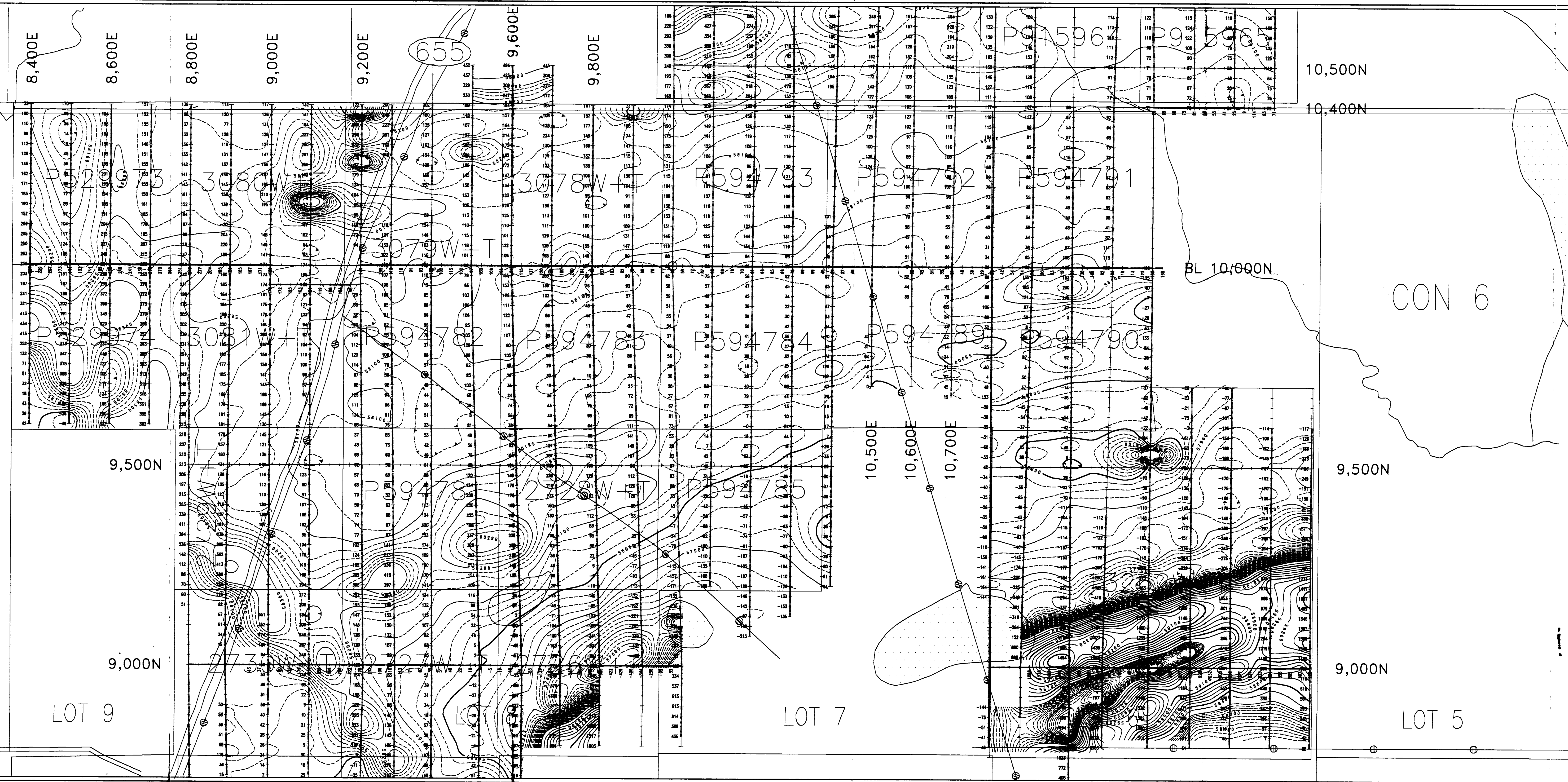
BL 10,600N

LOT 10

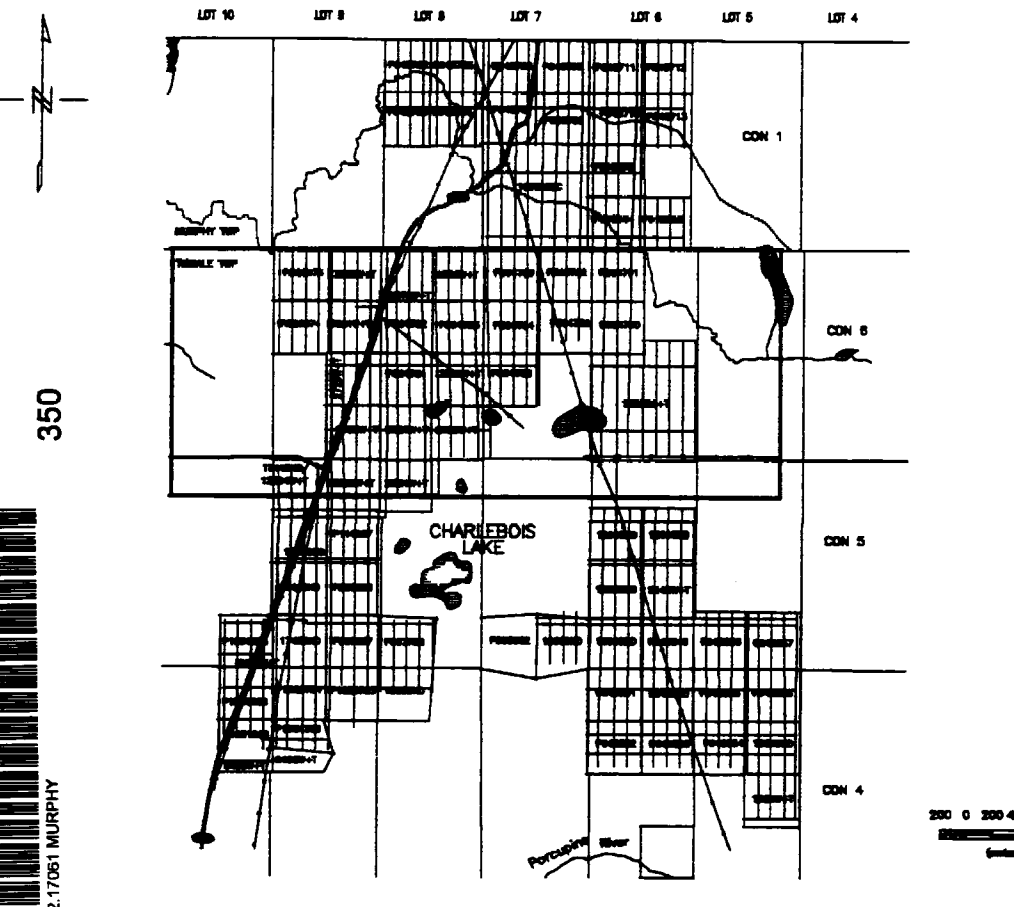
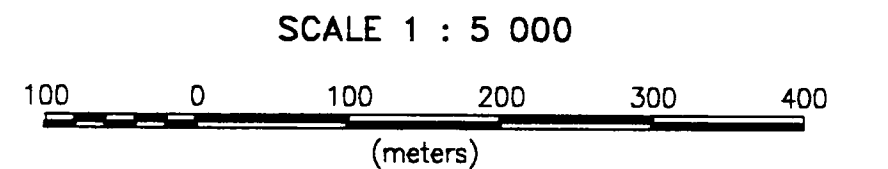
LOT 9

LOT 7

LOT 5



**LEGEND**  
**CONTOUR INTERVALS (nanoTesla)**  
 - - - 25 to 58300 nT  
 — 100  
 — 500  
 Readings: Total field - 58000 nT  
 Instrument: Magnetometer GEM, GSM-19

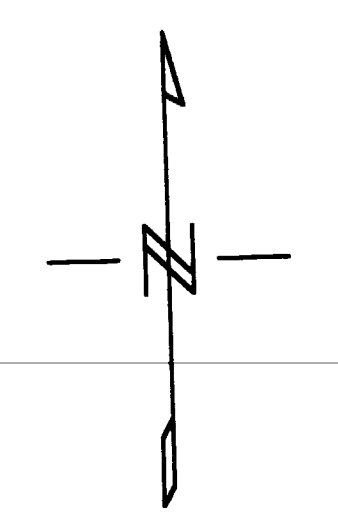
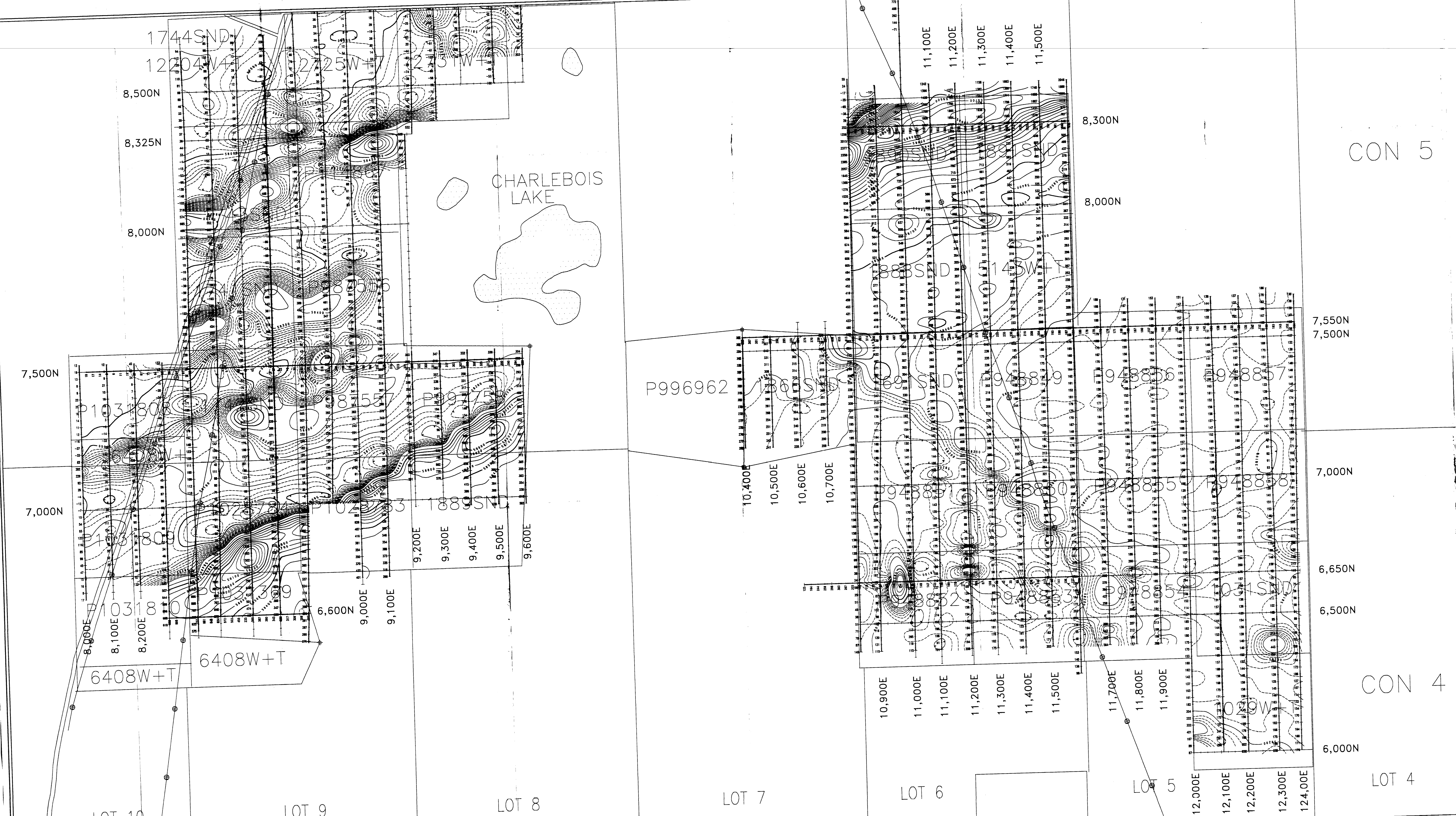


**PLACER DOME CANADA LTD**  
**MONETA PROPERTY RECEIVED**  
 2.17061 SHEET-2

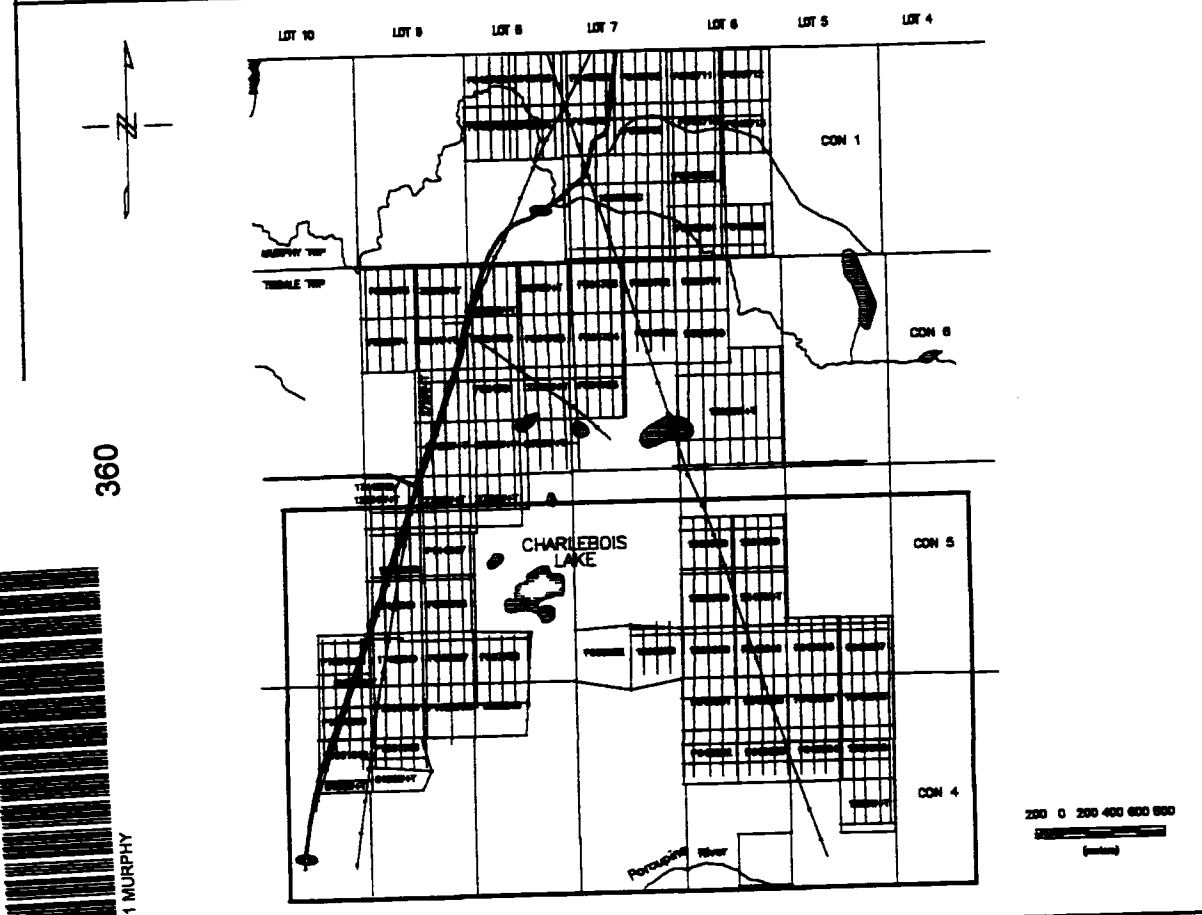
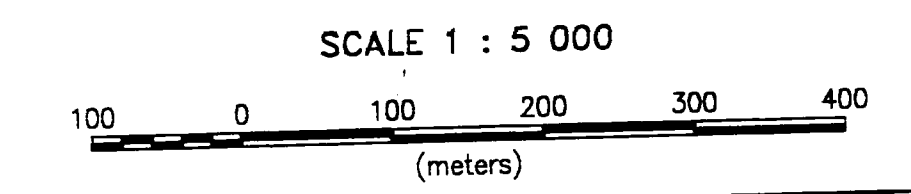
**MAGNETIC SURVEY**  
**TOTAL FIELD CONTOURS**  
**VAL D'OR GEOPHYSICS LTD**

Interpreted by: P. Boileau, P.Eng. Date: 06/96  
 Scale 1 : 5 000 Drawing no: 96-1326-1.1





**LEGEND**  
**CONTOUR INTERVALS (nanoTesla)**  
 - - - - 25 to 58300 nT  
 ——— 100  
 ——— 500  
 Readings: Total field - 58000 nT  
 Instrument: Magnetometer GEM, GSM-19



**PLACER DOME CANADA LTD**  
**MONETA PROPERTY**

**17061 SHEET-3**

**MAGNETIC SURVEY**  
**TOTAL FIELD CONTOURS**

**VAL D'OR GEOPHYSICS LTD**

Interpreted by: P. Boileau, P.Eng. Date: 06/96  
 Scale 1 : 5 000 Drawing no: 96-1326-1.1