

LOG NO	1219	RD.
ACTION		
Report FILE NO.		

Property and Assessment  
for the  
1989 Work Program  
on the  
Spring Property  
(Venture 232)

VOLUME I

Mineral Claims:

- Spring 3
- Boomer 1 - 4
- Pick 1 - 6
- Pick Fr. 6 - 8
- AK 1 to 4

Similkameen Mining Division

N.T.S. 92H/16

Latitude: 49° 47' N, Longitude: 120° 08' W

Owned By: Golden Pick Resources Ltd.  
507-1541 West Broadway  
Vancouver, B. C.  
V6J 1W7

Work By: Placer Dome Inc.  
401-1450 Pearson Place  
Kamloops, B. C.  
V1S 1J9

Report By: Marc Deschenes  
Richard Cannon  
Henri Letient  
Robert Pease

December, 1989

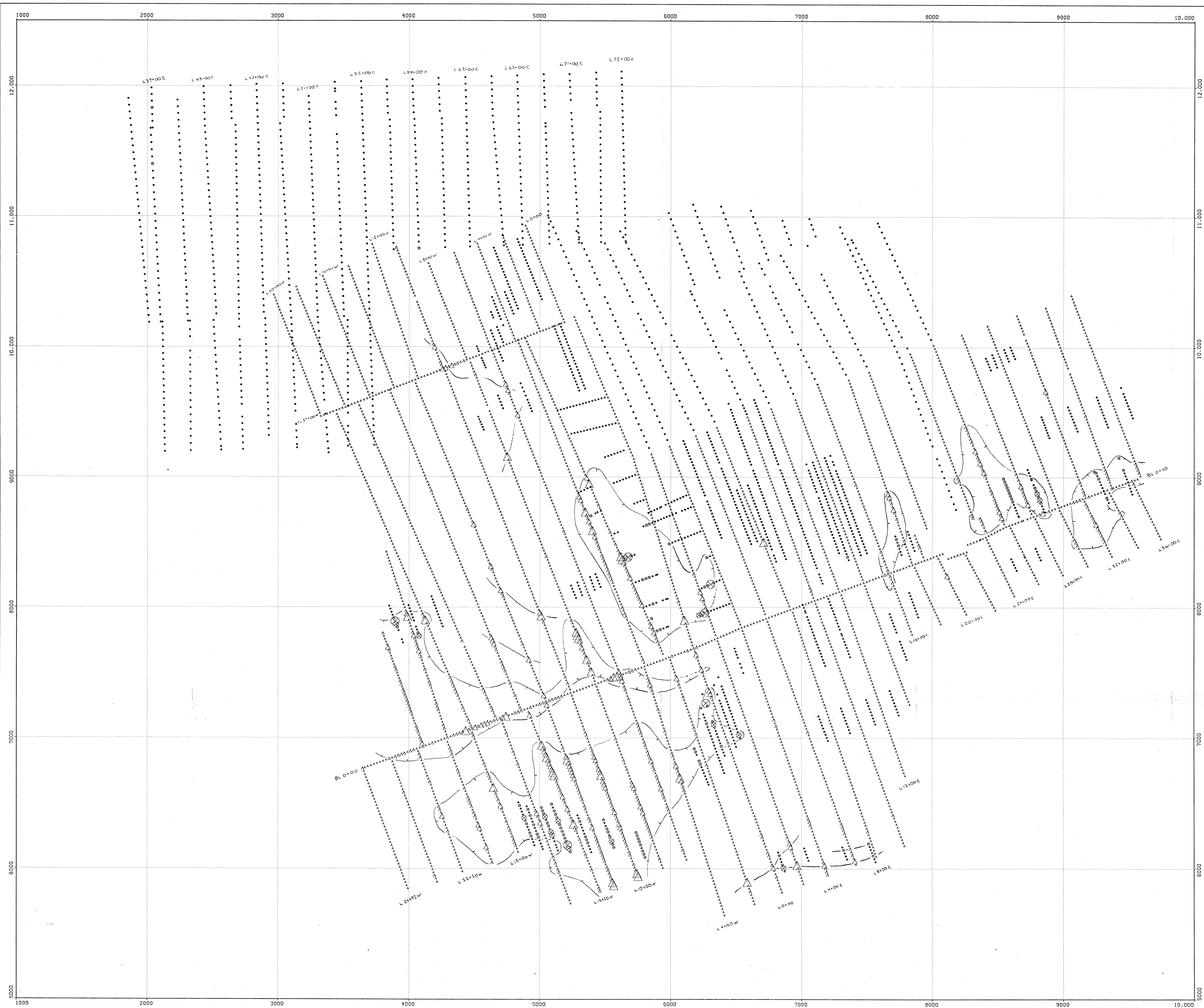
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

19,420 part 2 of 2

SPRING PROJECT  
1988 AND 1989 SOILS  
LEAD SYMBOL PLOT

- 1988 LEAD VALUES
- < 30 PPM
  - △ 30 - 59 PPM
  - △ 60 - 119 PPM
  - △ > 120 PPM

- 1989 LEAD VALUES
- < 30 PPM
  - 30 - 59 PPM
  - ⊗ 60 - 119 PPM
  - ⊗ > 120 PPM



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

**19,420**  
*Part 2 of 2*

DATA PLOTTED ON THIS MAP:  
DIRECTORY: SEML/SPRING/GEUCHEM

FIELD FILE  
POINTS: PB ALLSG89.SOL  
POINTS: PB SG88.SOL

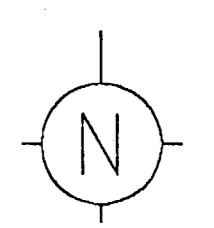
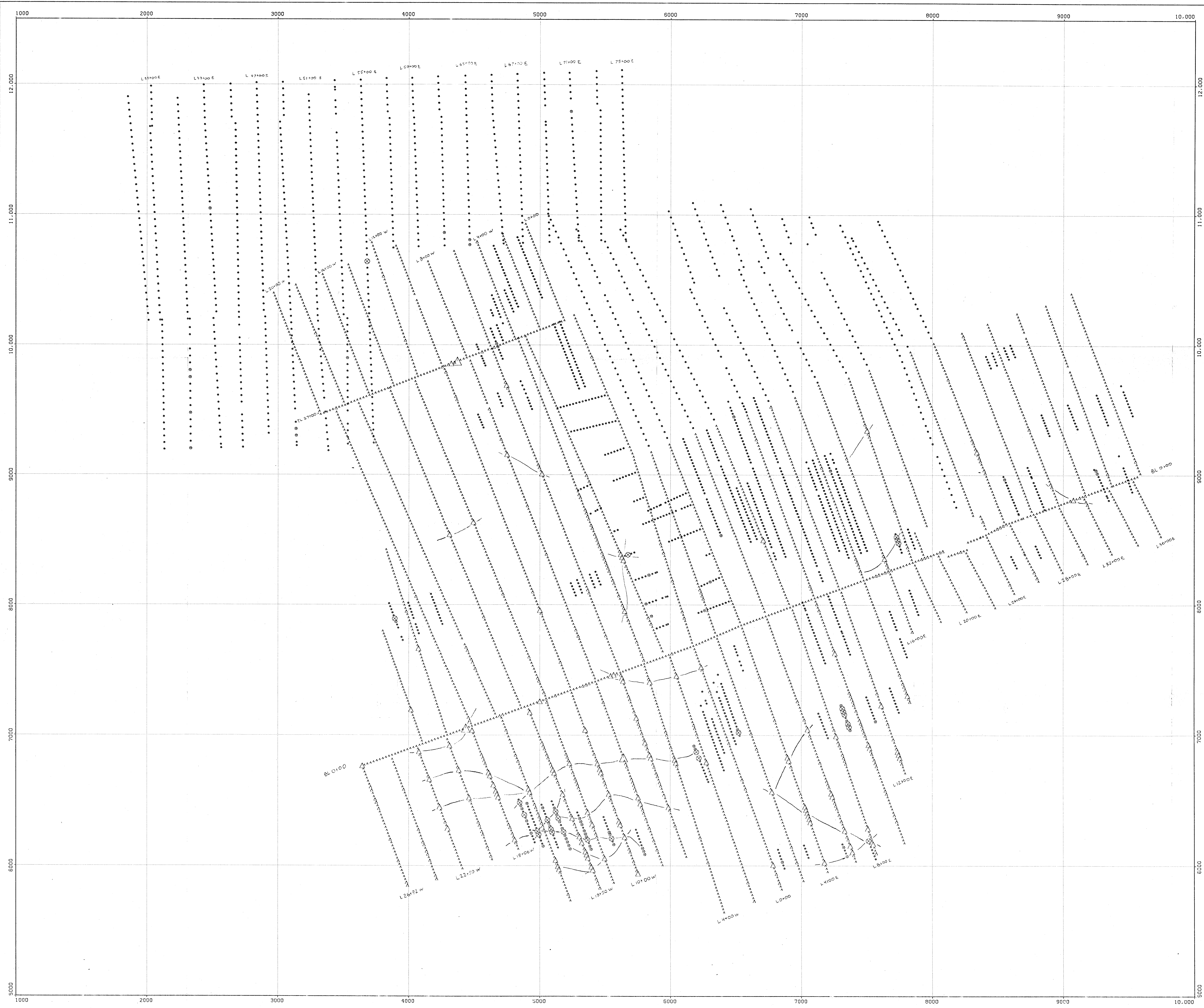


FIGURE 24.

DRAWN: NEM		PLACER DOME INC.	
DATE: 89:11:10		SPRING PROJECT	
SCALE: 1:10000		1988 AND 1989 SOILS	
		LEAD SYMBOL PLOT	
		PLATE	

SPRING PROJECT  
1988 AND 1989 SOILS  
SILVER SYMBOL PLOT

- 1988 SILVER VALUES
- △ < 0.5 PPM
  - △ 0.5 - 0.9 PPM
  - △ 1.0 - 4.9 PPM
  - △ > 5.0 PPM
- 1989 SILVER VALUES
- < 0.5 PPM
  - 0.5 - 0.9 PPM
  - ⊗ 1.0 - 4.9 PPM
  - ⊗ > 5.0 PPM



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

**19,420**  
*Part 2 of 2*

DATA PLOTTED ON THIS MAP:  
DIRECTORY: \EXPL\SPRING\GEOCHEM

POINTS:	FIELD	FILE
POINTS:	RG	ALLSOB9.SOL
POINTS:	RG	SOB9.SOL

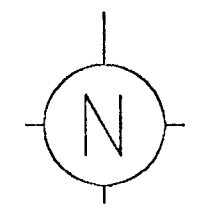


FIGURE 25.

DRAWN		NEM		PLACER DOME INC.	
DATE 09:11:16		SPRING PROJECT		1988 AND 1989 SOILS	
SCALE 1:10000		SILVER SYMBOL PLOT		PERFE	
NO.					

2000 3000 4000 5000 6000 7000 8000 9000

12 000

11 000

10 000

9000

8000

7000

6000

12 000

11 000

10 000

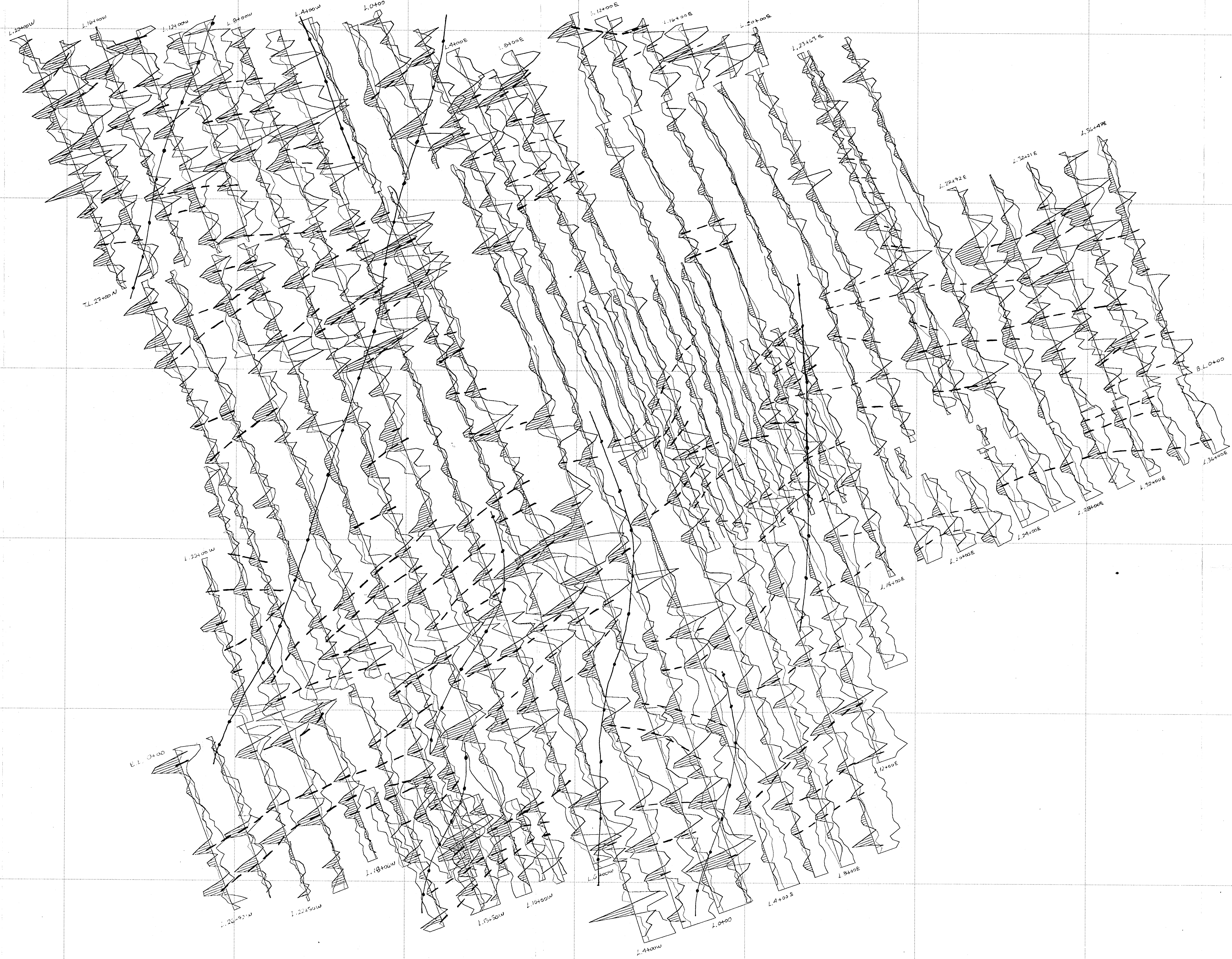
9000

8000

7000

6000

SPRING PROJECT  
STACKED VLF-EM PROFILES  
1988-1989 DATA  
DARK LINE = FRASER FILTER  
MEDIUM LINE = IN-PHASE  
LIGHT LINE = QUADRATURE



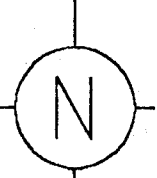
VLF-EM CONDUCTOR AXES  
MAJOR OFFSETS IN VLF TRENDS

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

19,420  
DATA PLOTTED ON THIS MAP  
DIRECTORY: SEXPL/SPRING/GP

Part 2  
of 2

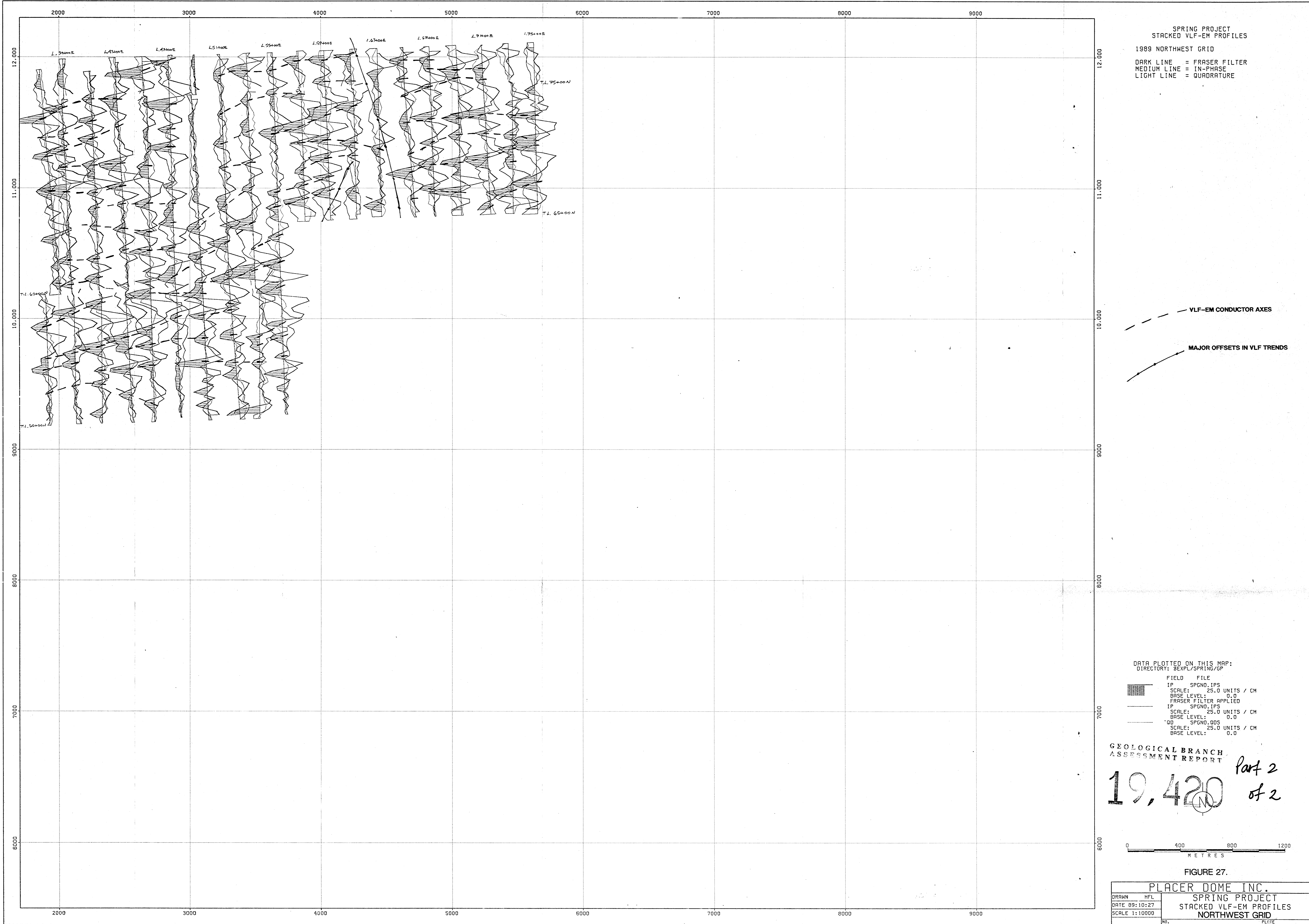
FIELD FILE  
IP 88-89.IPS  
SCALE: 25.0 UNITS / CM  
BASE LEVEL: 0.0  
FRASER FILTER APPLIED  
IP 88-89.IPS  
SCALE: 25.0 UNITS / CM  
BASE LEVEL: 0.0  
QD 88-89.QDS  
SCALE: 25.0 UNITS / CM  
BASE LEVEL: 0.0



0 400 800 1200  
METRES

FIGURE 26.

PLACER DOME INC.  
SPRING PROJECT  
STACKED VLF-EM PROFILES  
MAIN GRID  
DRAWN HFL  
DATE 89:10:27  
SCALE 1:10000  
NO. PLATE



SPRING PROJECT  
 STACKED VLF-EM PROFILES  
 1989 NORTHWEST GRID  
 DARK LINE = FRASER FILTER  
 MEDIUM LINE = IN-PHASE  
 LIGHT LINE = QUADRATURE

--- VLF-EM CONDUCTOR AXES  
 --- MAJOR OFFSETS IN VLF TRENDS

DATA PLOTTED ON THIS MAP:  
 DIRECTORY: 8EXPL/SPRING/GP  
 FIELD FILE  
 IP SPGNO\_IPS  
 SCALE: 25.0 UNITS / CM  
 BASE LEVEL: 0.0  
 FRASER FILTER APPLIED  
 IP SPGNO\_IPS  
 SCALE: 25.0 UNITS / CM  
 BASE LEVEL: 0.0  
 '00 SPGNO\_DOS  
 SCALE: 25.0 UNITS / CM  
 BASE LEVEL: 0.0

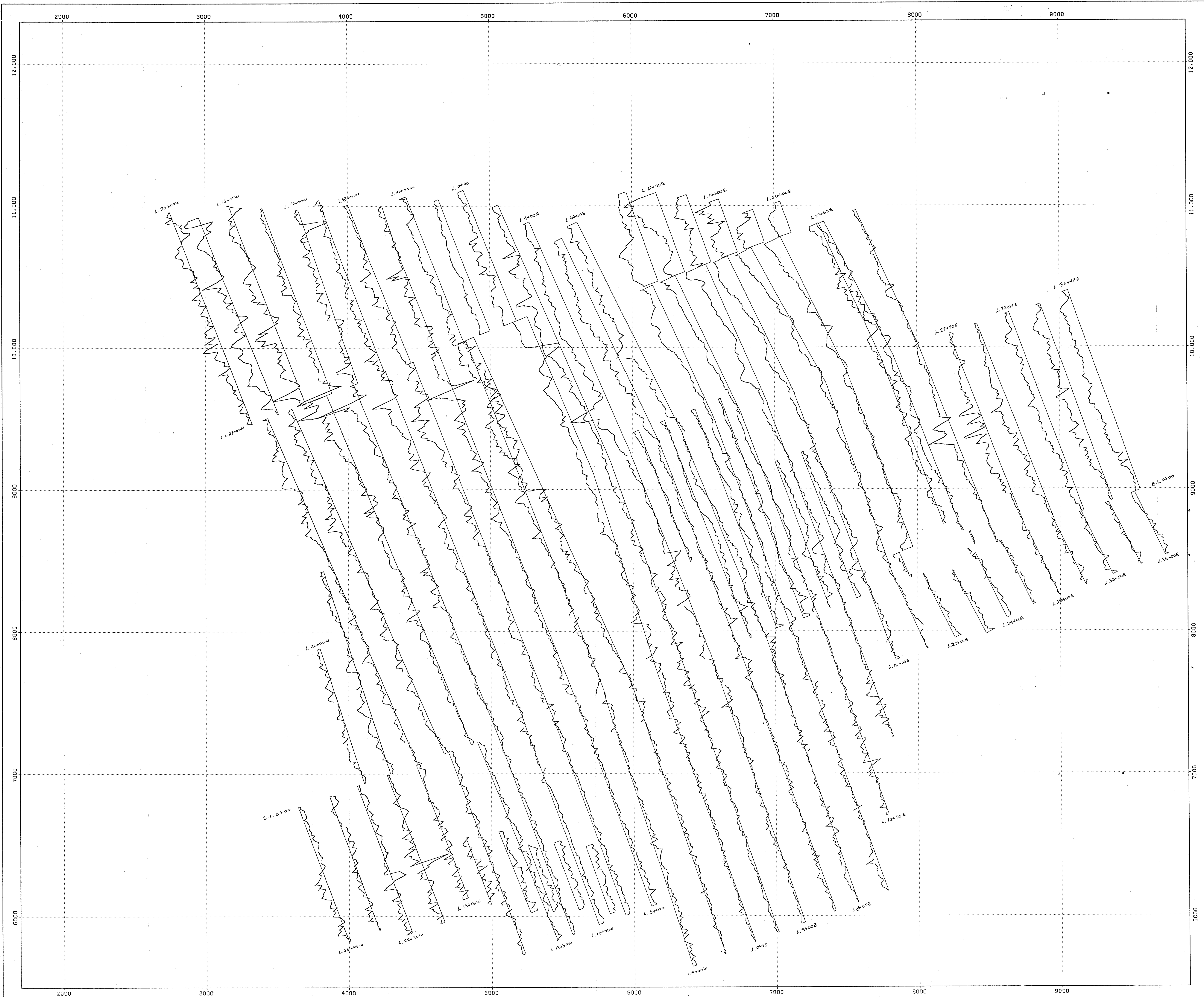
GEOLOGICAL BRANCH  
 ASSESSMENT REPORT  
 19,420 Part 2 of 2

0 400 800 1200  
 METRES

FIGURE 27.

DRAWN HFL		PLACER DOME INC.	
DATE 89:10:27		SPRING PROJECT	
SCALE 1:10000		STACKED VLF-EM PROFILES	
		NORTHWEST GRID	
NO.		PLATE	

SPRING PROJECT  
 STACKED MAGNETIC PROFILES  
 1988-1989 DATA  
 UNITS = NANOTESLAS



GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

19,420  
 Part 2 of 2

DATA PLOTTED ON THIS MAP:  
 DIRECTORY: 8EXPL/SPRING/GP  
 FIELD FILE  
 MRG 88-89.MRG  
 SCALE: 500 UNITS / CM  
 BASE LEVEL: 57000

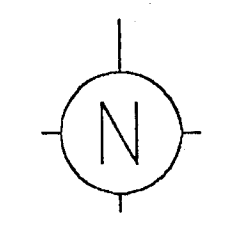
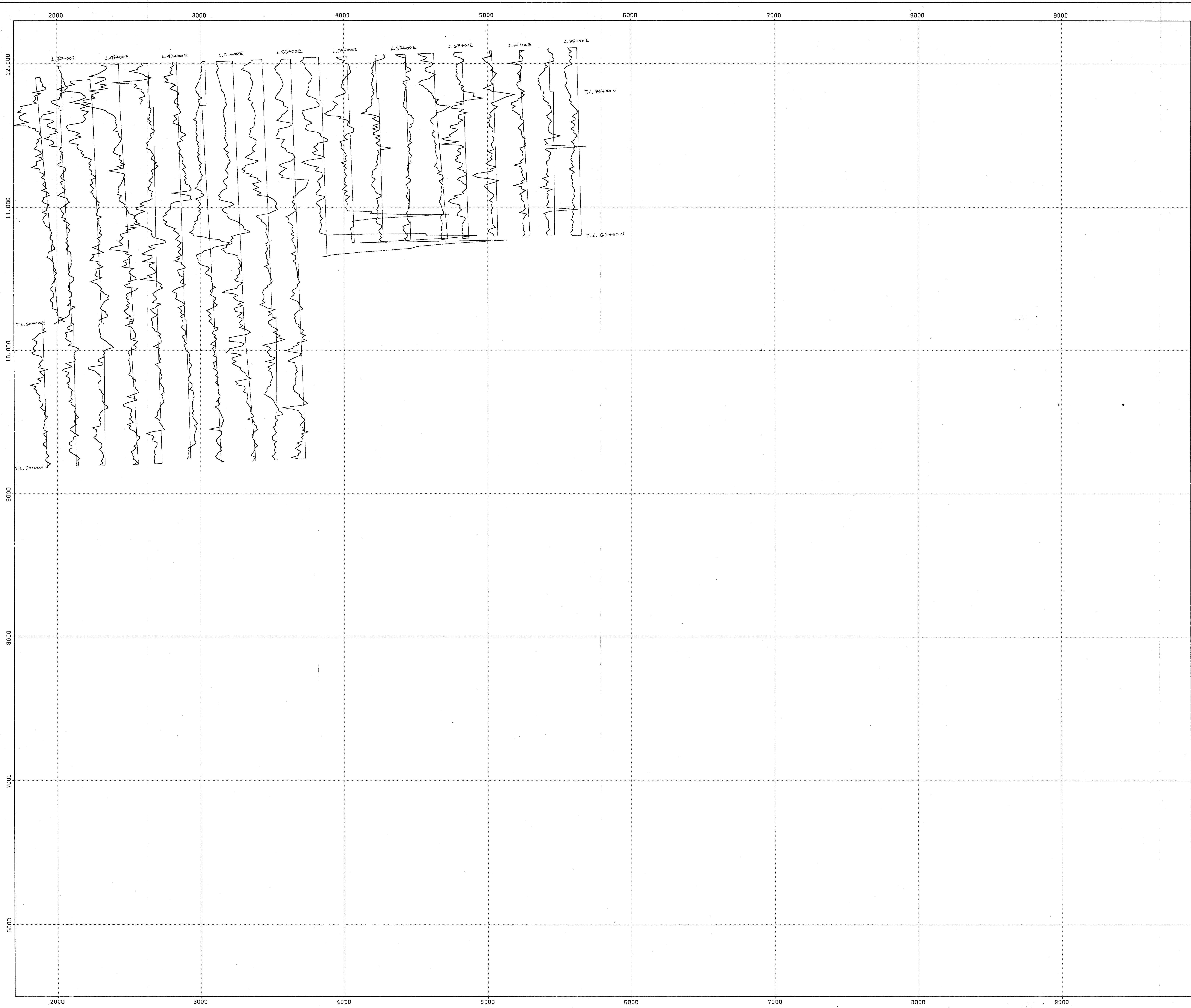


FIGURE 28.

DRAWN: HFL		PLACER DOME INC.	
DATE: 09-10-28		SPRING PROJECT	
SCALE: 1:10000		STACKED MAGNETIC PROFILES	
		MAIN GRID	
NO.		PLATE	



SPRING PROJECT  
 STACKED MAGNETIC PROFILES  
 1989 NORTHWEST GRID  
 UNITS = NANOTESLAS

GEOLOGICAL BRANCH  
 ASSESSMENT REPORT  
 19,420 Part 2 of 2

DATA PLOTTED ON THIS MAP:  
 DIRECTORY: SEXPL/SPRING/GP  
 FIELD FILE  
 MAG SPOND, MRCS  
 SCALE: 500 UNITS / CM  
 BASE LEVEL: 57000

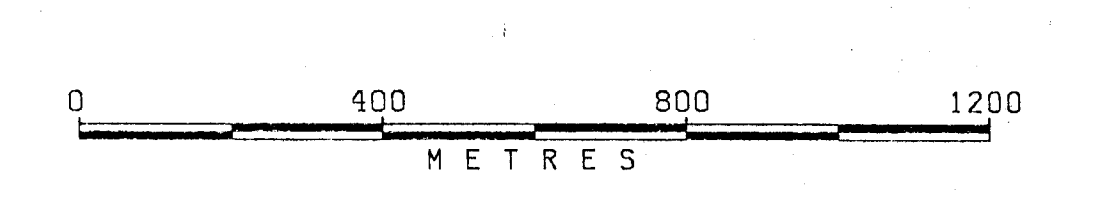
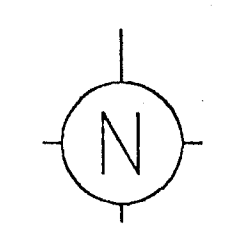
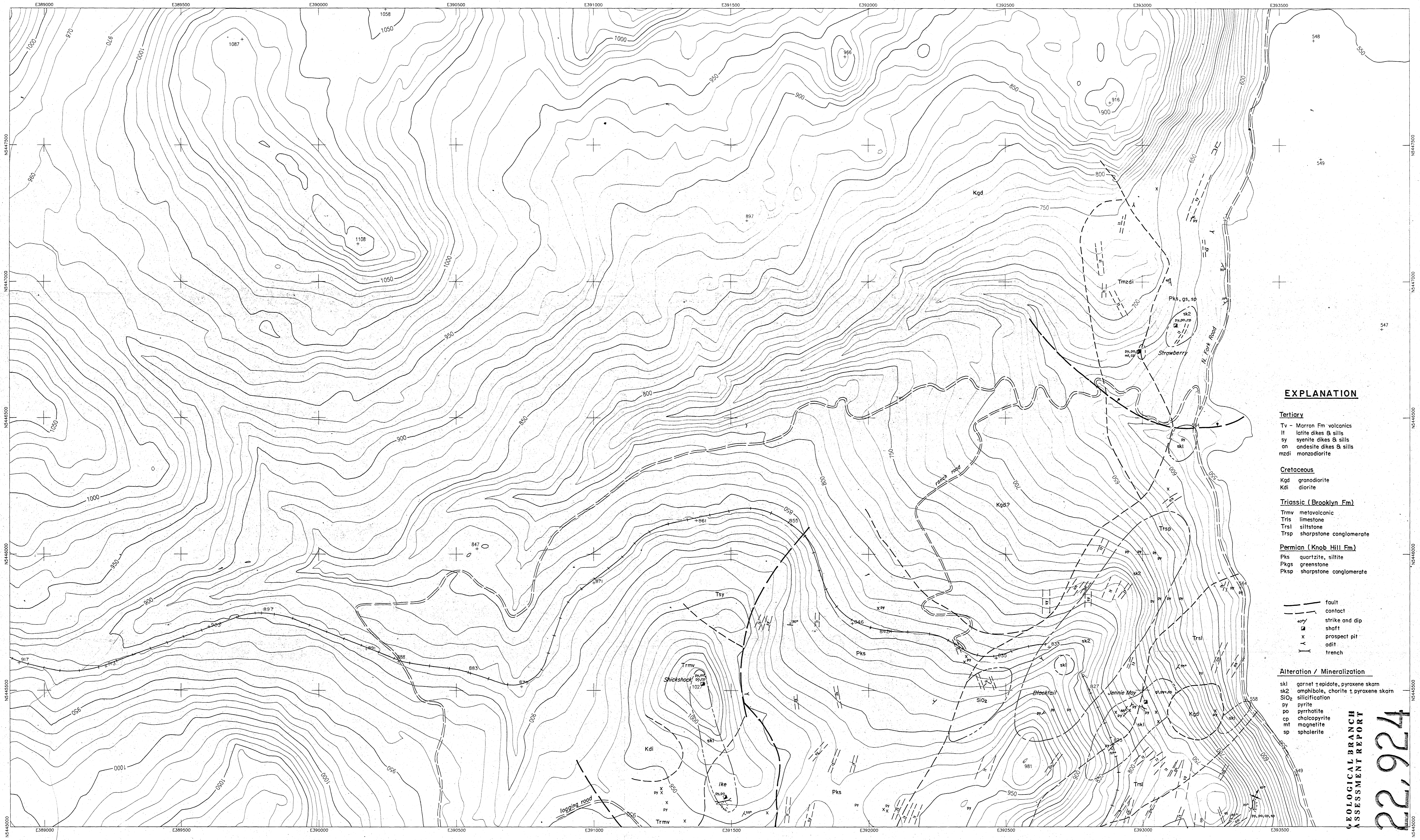


FIGURE 29.

DRAWN HFL		PLACER DOME INC.	
DATE 89:10:27		SPRING PROJECT	
SCALE 1:10000		STACKED MAGNETIC PROFILES	
		NORTHWEST GRID	
NO.		PLATE	



**EXPLANATION**

- Tertiary**  
 Tv - Marron Fm volcanics  
 If - latite dikes & sills  
 sy - syenite dikes & sills  
 on - andesite dikes & sills  
 mzd - monzodiorite
- Cretaceous**  
 Kgd - granodiorite  
 Kdi - diorite
- Triassic (Brooklyn Fm)**  
 Trmv - metavolcanic  
 Trls - limestone  
 Trsl - siltstone  
 Trsp - sharpstone conglomerate
- Permian (Knob Hill Fm)**  
 Pks - quartzite, siltite  
 Pkgs - greenstone  
 Pksp - sharpstone conglomerate

- fault  
 --- contact  
 --- strike and dip  
 --- shaft  
 x prospect pit  
 o dit  
 --- trench

- Alteration / Mineralization**  
 skl - garnet + epidote, pyroxene skarn  
 sk2 - amphibole, chlorite + pyroxene skarn  
 SiO2 - silicification  
 py - pyrite  
 pp - pyrrhotite  
 cp - chalcopyrite  
 mt - magnetite  
 sp - sphalerite

GEOLOGICAL BRANCH ASSESSMENT REPORT

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**HYPSOGRAPHIC**  
 + 557 Spot Height  
 --- Contours

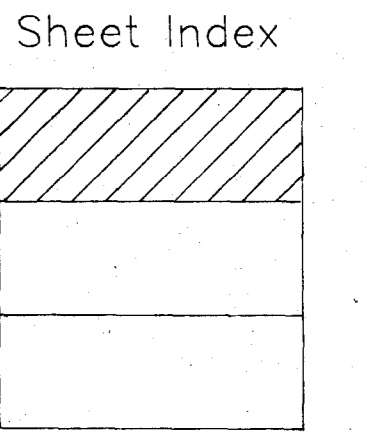
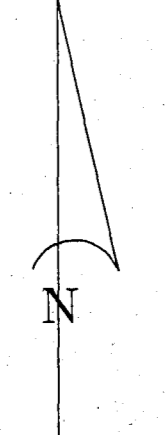
**GEOLOGY**  
**Thimble Mtn. Project**  
 NORTH 1/2  
 Scale 1:5000

Contour Interval 10m  
 Horizontal Datum: NAD83  
 Vertical Datum: Geodetic  
 Control Derived from TRIM  
 Date of Photography: July 1988

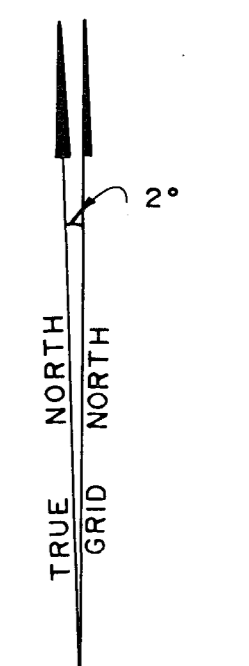
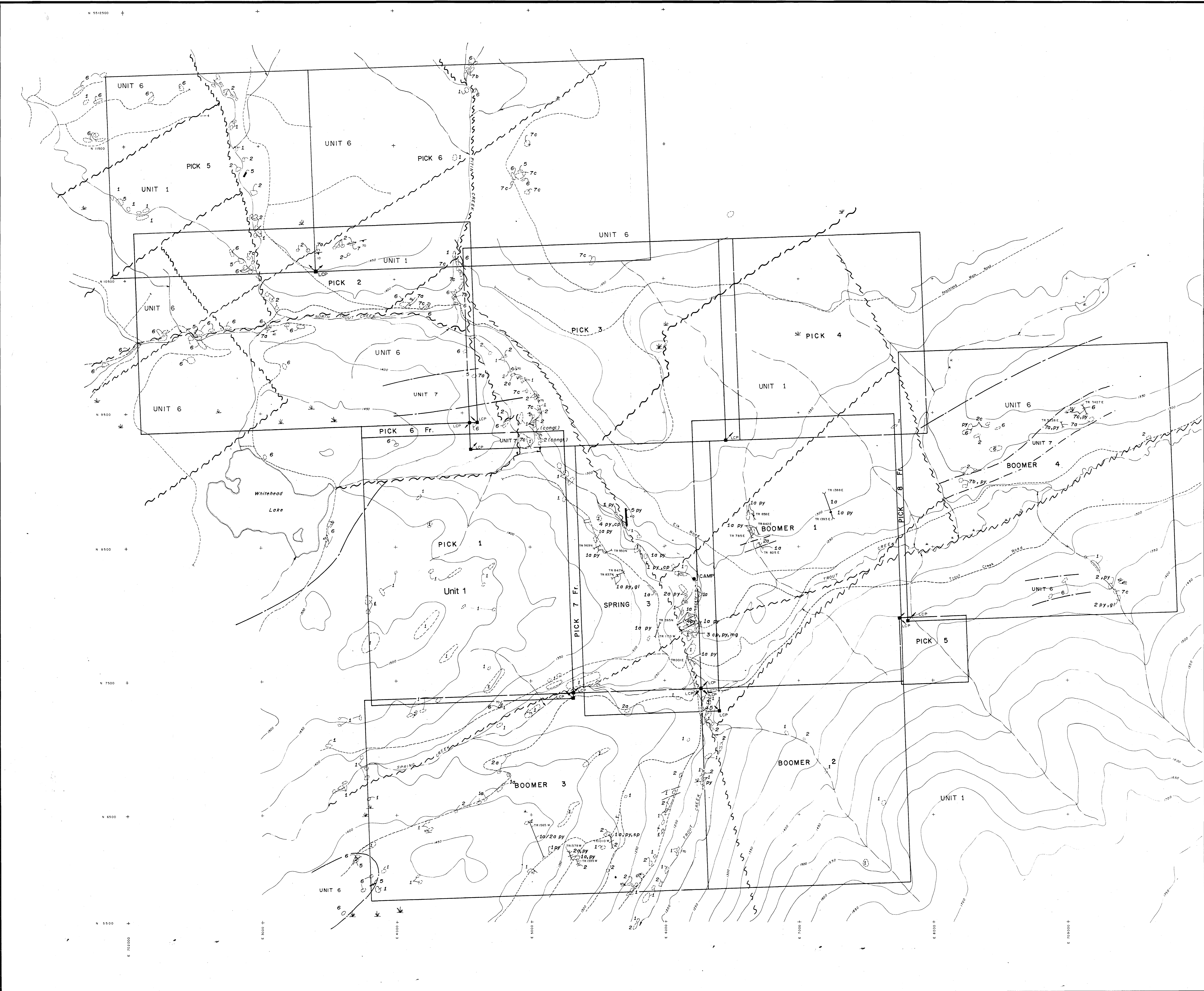


R. Fredericks  
 March, 1995  
 References: Fyles, J.T., 1990, Geology of the Greenwood-Grand Forks Area, B.C., B.C. Geological Survey Branch Open File 1990-25.  
 Ettlinger, A.D., 1991, Pan Orvana mapping report  
 Laird, A.A., 1991, Pan Orvana mapping report

*R. Fredericks*







**LEGEND**

- ROADS, TRAILS
- LAKE, POND
- CREEK, STREAM
- SWAMP, MARSH
- CONTOUR ELEVATIONS IN METRES  
CONTOURS AT 50M INTERVALS
- CLAIM BOUNDARY
- LCP PICK 3
- '89 TRENCH LOCATION
- OUTCROP LOCATION
- STRIKE AND DIP OF JOINTS
- STRIKE AND DIP OF BEDS
- STRIKE AND DIP OF FOLIATION
- STRIKE AND DIP OF SHEAR
- DYKE
- GEOLOGIC CONTACT (known, inferred)
- INFERRED FAULT

**LITHOLOGY**

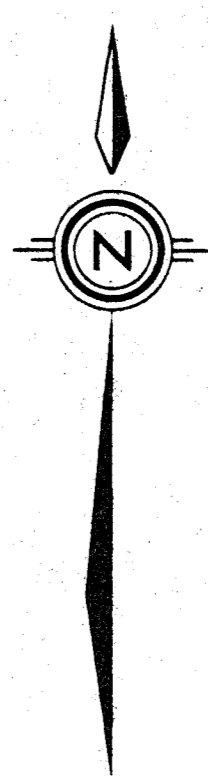
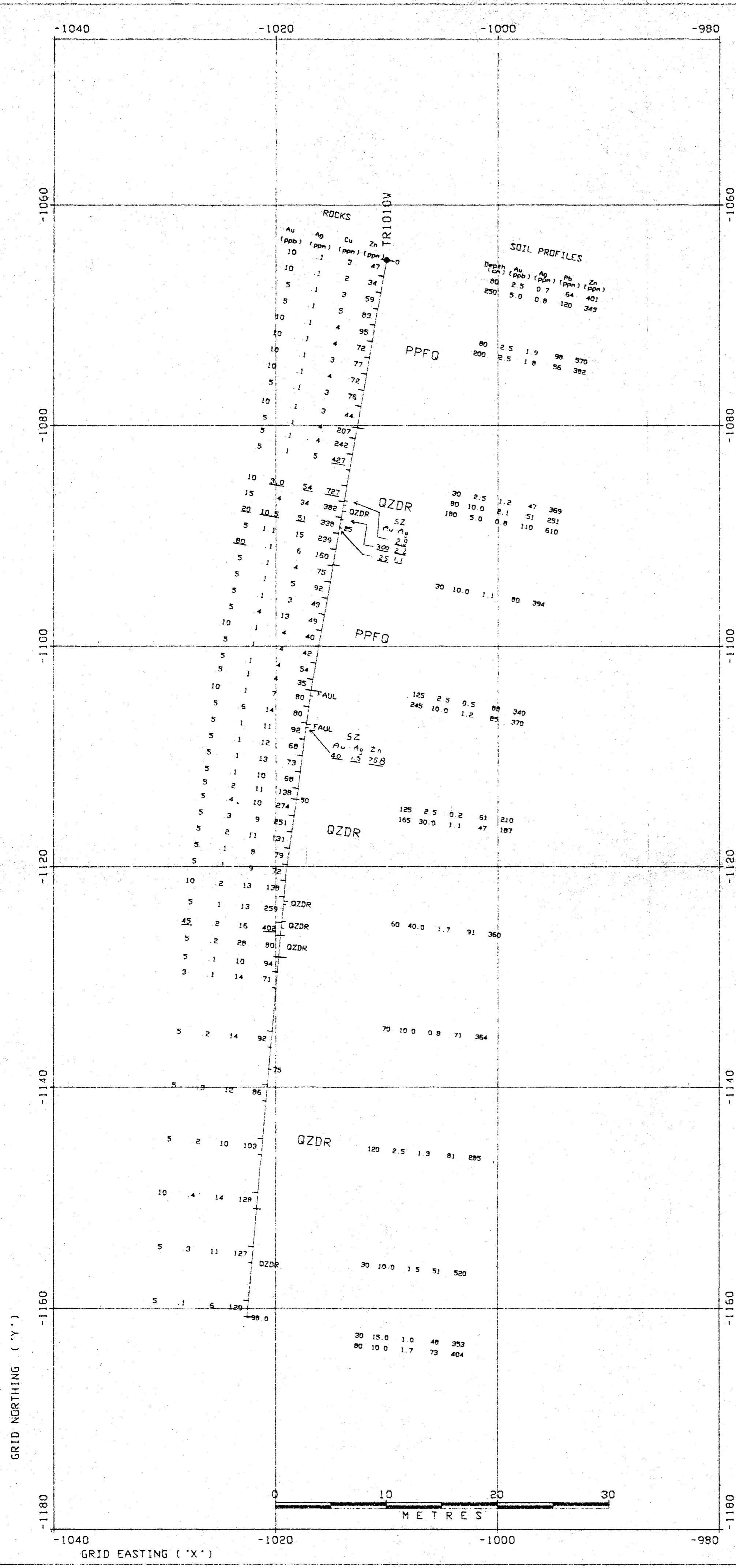
- TERTIARY**
- PPFQ 1 - PORPHYRITIC QUARTZ - FELDSPAR MONZONITE  
1a - PPFQ WITH ARGILLIC ALTERATION (OTTER INTRUSIONS).
  - OZDR 2 - BIOTITE - HORNBLENDE QUARTZ - DIORITE.  
2a - OZDR WITH ARGILLIC ALTERATION  
2c - OZDR CONTAINING GRANITE AND/OR GNEISS XENOLITHS.
  - PRHD 3 - SHEARED PORPHYRITIC RHYODACITE WITH QUARTZ STOCKWORK.
  - BREC 4 - HIGHLY WEATHERED TECTONIC BRECCIA.
  - HAND 5 - ALTERED HYPABYSSAL ANDESITE DYKES.
- JURASSIC OR LATER**
- GRAN 6 - GRANITE PEGMATITE WITH MINOR BIOTITE (COAST INTRUSIONS).
- PALEOZOIC**
- OBGN 7a - PLAGIOCLASE - QUARTZ - BIOTITE GNEISS.  
7b - WEAKLY FOLIATED PLAGIOCLASE - QUARTZ - HORNBLENDE GNEISS.  
7c - PLAGIOCLASE - QUARTZ - HORNBLENDE (BIOTITE) GNEISS.

**MINERALIZATION**

- cp CHALCOPYRITE
- gl GALENA
- mg MAGNETITE

GEOLOGICAL ASSESSMENT REPORT Part 2 of 2  
19,420 Figure 4.

PLACER DOME INC.	
SPRING PROJECT '89	
British Columbia	
V 232	
GEOLOGY	
TECHNICAL WORK BY: M.D.	SCALE: 1:10,000
DRAWN BY: DBM TECHNICAL SERVICES	DATE: NOV. 1989
REVISION:	FIG. NO.



**LEGEND**

- TRENCH**
- TRENCH COLLAR
  - CHIP SAMPLE INTERVAL WITH SIGNIFICANT GEOCHEMICAL RESULTS (PLOTTED TO FAR LEFT)
  - SZ SHEAR ZONE SAMPLE LOCATION WITH SIGNIFICANT GEOCHEMICAL RESULTS
  - PPFQ GEOLOGIC INTERVAL
  - 25 DISTANCE FROM COLLAR (m)

- SOIL PROFILES**
- PLOTTED TO THE FAR RIGHT WITH
  - DEPTH IN CENTIMETRES
  - SIGNIFICANT GEOCHEMICAL RESULTS

- ROCK TYPE CODES**
- CGNG : COARSE-GRAINED BIOTITE GNEISS
  - DYKE : FINE-GRAINED DYKE ROCK (ANDESITE)
  - FAUL : FAULT OR SHEAR ZONE
  - GRAN : GRANITE PEGMATITE
  - OVBW : OVERBURDEN
  - PPFQ : PORPHYRITIC QUARTZ-FELDSPAR MONZONITE
  - QBGN : PLAGIOCLASE-QUARTZ-BIOTITE GNEISS
  - QD : OLITE PORBLEND QUARTZ-DIORITE

**PLACER DOME INC. RANCH ASSESSMENT REPORT**

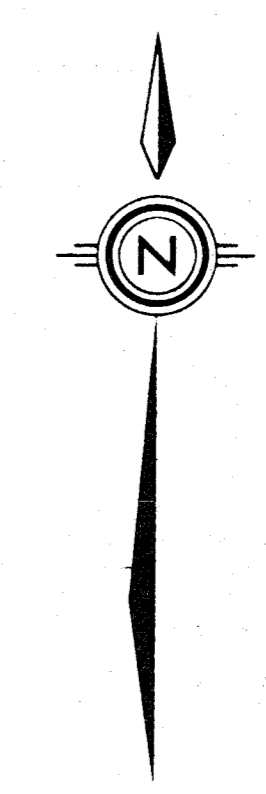
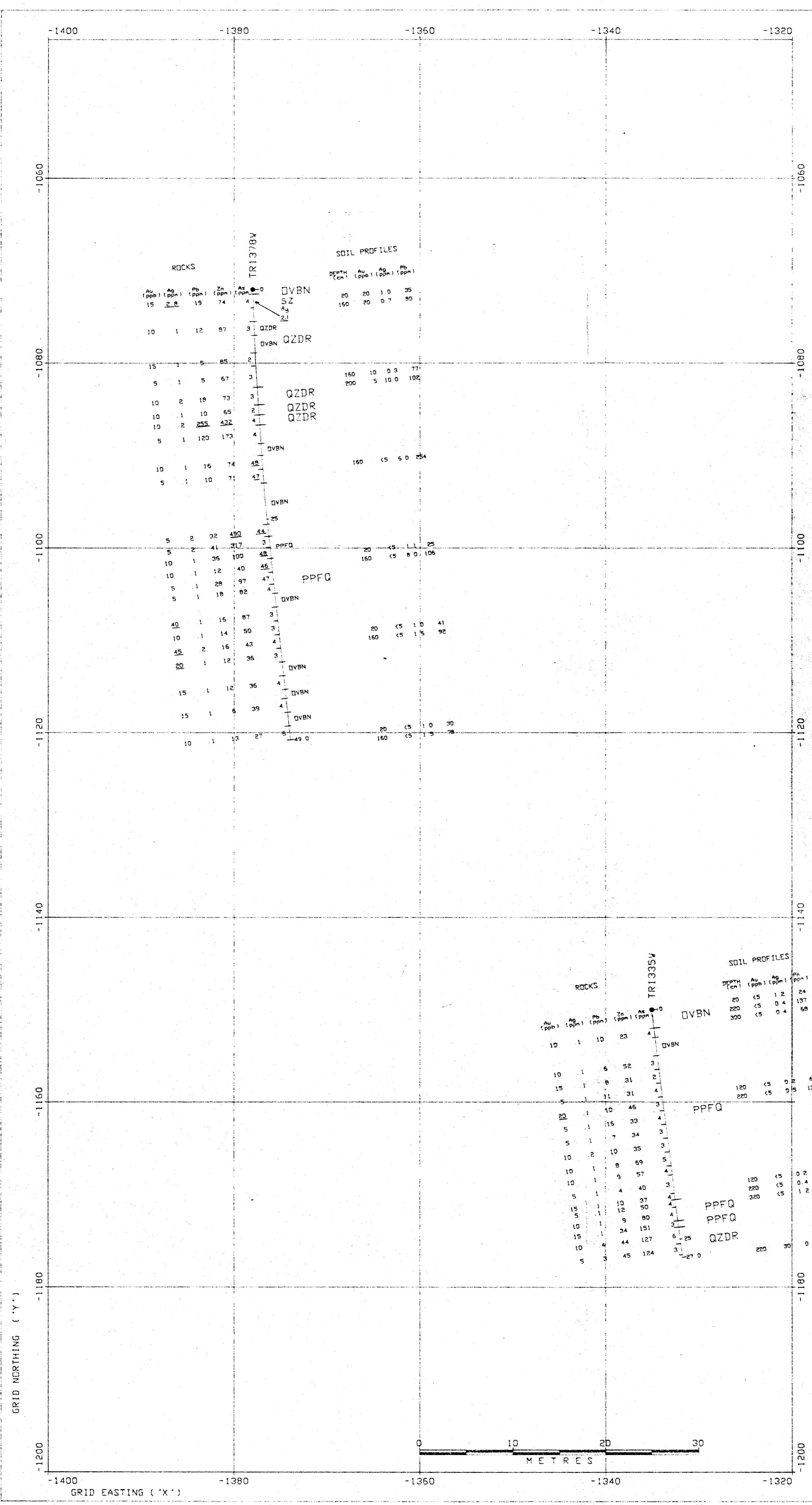
**19,420**

FIGURE 12. TRENCH PLAN: TR1010W

*part 2 of 2*

DATA FILE:  
 POSTED DATA  
 ASSAYS DH ROCK TYPE  
 AU PGI  
 AG RI  
 CU

DRAWN NEM		PLACER DOME INC.	
DATE 89:11:08		SPRING PROJECT '89	
SCALE 1:250		ZONE 4 AREA	
IND		PLATE	



**LEGEND**

- TRENCH**
- TRENCH COLLAR
  - CHIP SAMPLE INTERVAL WITH SIGNIFICANT GEOCHEMICAL RESULTS (PLOTTED TO FAR LEFT)
  - SZ SHEAR ZONE SAMPLE LOCATION WITH SIGNIFICANT GEOCHEMICAL RESULTS
  - PPFQ GEOLOGIC INTERVAL
  - 25 DISTANCE FROM COLLAR (m)
- SOIL PROFILES**
- PLOTTED TO THE FAR RIGHT WITH DEPTH IN CENTIMETRES
  - SIGNIFICANT GEOCHEMICAL RESULTS
- ROCK TYPE CODES**
- COBG : COARSE-GRAINED BIOTITE GNEISS
  - DYKE : FINE-GRAINED DYKE ROCK (ANDESITE)
  - FAUL : FAULT OR SHEAR ZONE
  - GRAN : GRANITE PEGMATITE
  - OVBN : OVERBURDEN
  - PPFQ : PORPHYRITIC QUARTZ-FELDSPAR HORIZONITE
  - OBGN : PLAGIOCLASE-QUARTZ-BIOTITE GNEISS
  - QZDR : BIOTITE-NORBLENDE QUARTZ-DIORITE

FIGURE 13. TRENCH PLAN: TR1335W  
TR1378W

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

19,420 Part 2  
#2

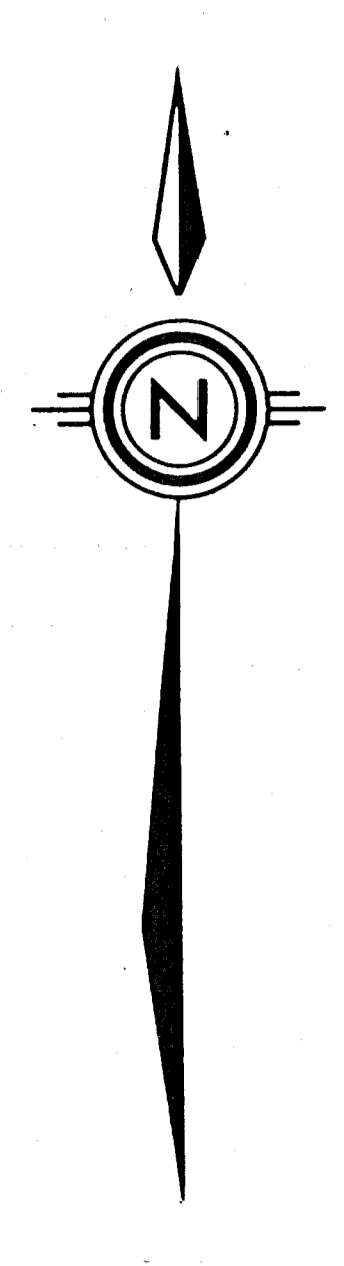
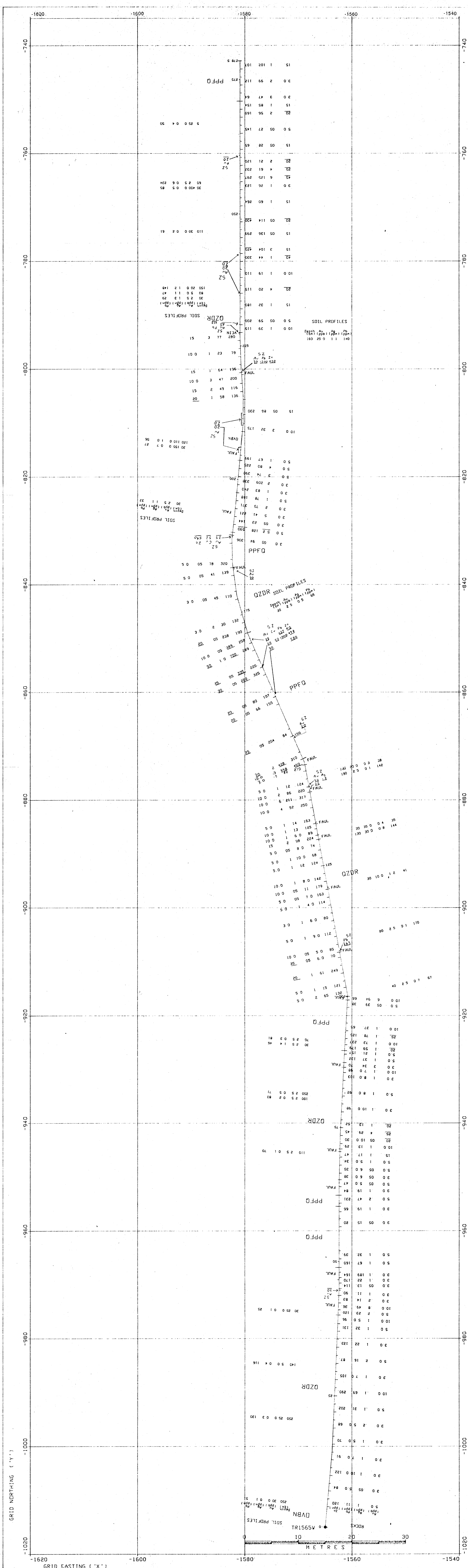
DATA FILE:  
POSTED DATA  
ASSAYS DH ROCK TYPE  
AU PGI  
AG RI  
PB

DRAWN NEM		PLACER DOME INC.
DATE 89-11-08		SPRING PROJECT '89
SCALE 1:250		ZONE 4 AREA
		ND

GRID NORTING ('Y')

GRID EASTING ('X')





**LEGEND**

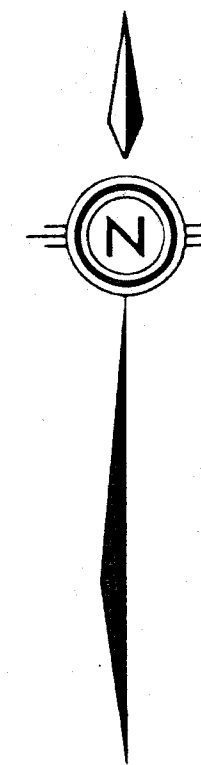
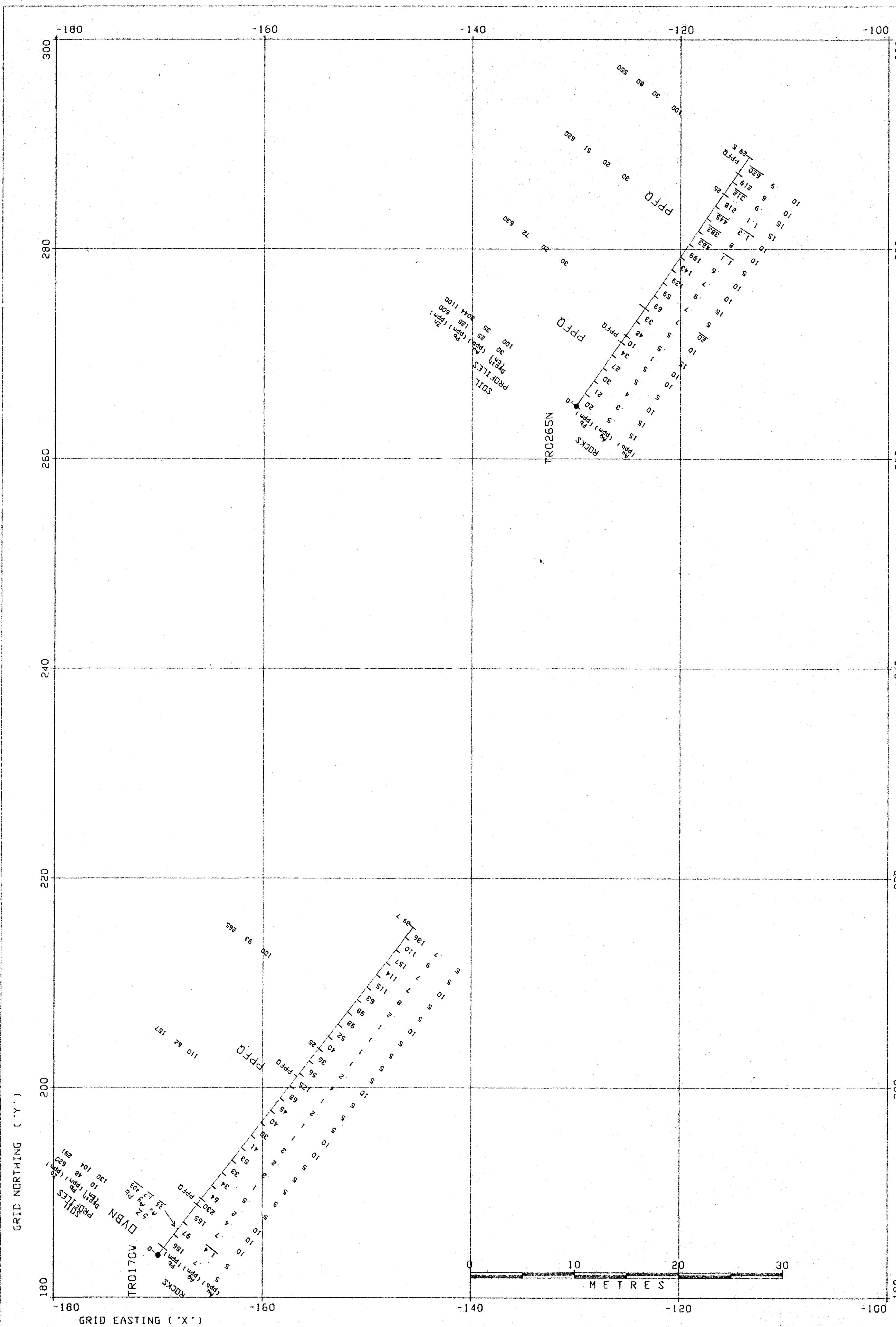
- TRENCH**
- TRENCH COLLAR
  - CHIP SAMPLE INTERVAL WITH SIGNIFICANT GEOCHEMICAL RESULTS (PLOTTED TO FAR LEFT)
  - SZ SHEAR ZONE SAMPLE LOCATION WITH SIGNIFICANT GEOCHEMICAL RESULTS
  - PPFQ GEOLOGIC INTERVAL
  - 25 DISTANCE FROM COLLAR (m)
- SOIL PROFILES**
- PLOTTED TO THE FAR RIGHT WITH DEPTH IN CENTIMETRES
  - SIGNIFICANT GEOCHEMICAL RESULTS
- ROCK TYPE CODES**
- CGNG : COARSE-GRAINED BIOTITE GNEISS
  - DXKE : FINE-GRAINED DYKE ROCK (ANDESITE)
  - FAUL : FAULT OR SHEAR ZONE
  - GRAN : GRANITE PEGMATITE
  - OVEN : OVERBURDEN
  - PPFQ : PORPHYRITIC QUARTZ-FELDSPAR MONZONITE
  - QSNH : PLAGIOCLASE-QUARTZ-BIOTITE GNEISS
  - QZDR : BIOTITE-HORNBLende QUARTZ-DIORITE

FIGURE 14. TRENCH PLAN: TR1565W  
 GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

19,420 Part 2 of 2

DATA FILE:  
 POSTED DATA  
 ASSAYS DH ROCK TYPE  
 AU PGI  
 AG RI  
 PB

PLACER DOME INC.	
SPRING PROJECT '89	
ZONE 4 AREA	
DRAWN NEM	NO
DATE	PLATE
SCALE 1:250	



**LEGEND**

**TRENCH**

- TRENCH COLLAR
- CHIP SAMPLE INTERVAL WITH SIGNIFICANT GEOCHEMICAL RESULTS (PLOTTED TO FAR LEFT)
- SZ SHEAR ZONE SAMPLE LOCATION WITH SIGNIFICANT GEOCHEMICAL RESULTS
- PPFQ GEOLOGIC INTERVAL
- 25 DISTANCE FROM COLLAR (m)

**SOIL PROFILES**

- PLOTTED TO THE FAR RIGHT WITH
- DEPTH IN CENTIMETRES
- SIGNIFICANT GEOCHEMICAL RESULTS

**ROCK TYPE CODES**

- CGNG : COARSE-GRAINED BIOTITE GNEISS
- DYKE : FINE-GRAINED DYKE ROCK (ANDESITE)
- FAUL : FAULT OR SHEAR ZONE
- GRAN : GRANITE PEGMATITE
- OVBN : OVERBURDEN
- PPFQ : PORPHYRITIC QUARTZ-FELDSPAR MONZONITE
- OBGN : PLAGIOCLASE-QUARTZ BIOTITE GNEISS
- OZDR : BIOTITE-HORNBLende QUARTZ-DIORITE

**GEOLOGICAL BRANCH ASSESSMENT REPORT**

**19,420**

FIGURE 16. TRENCH PLAN: TR0170W

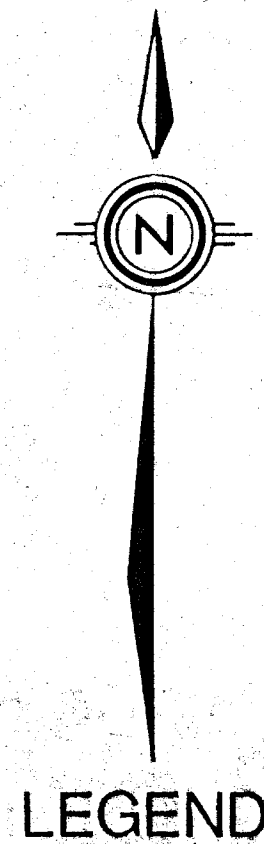
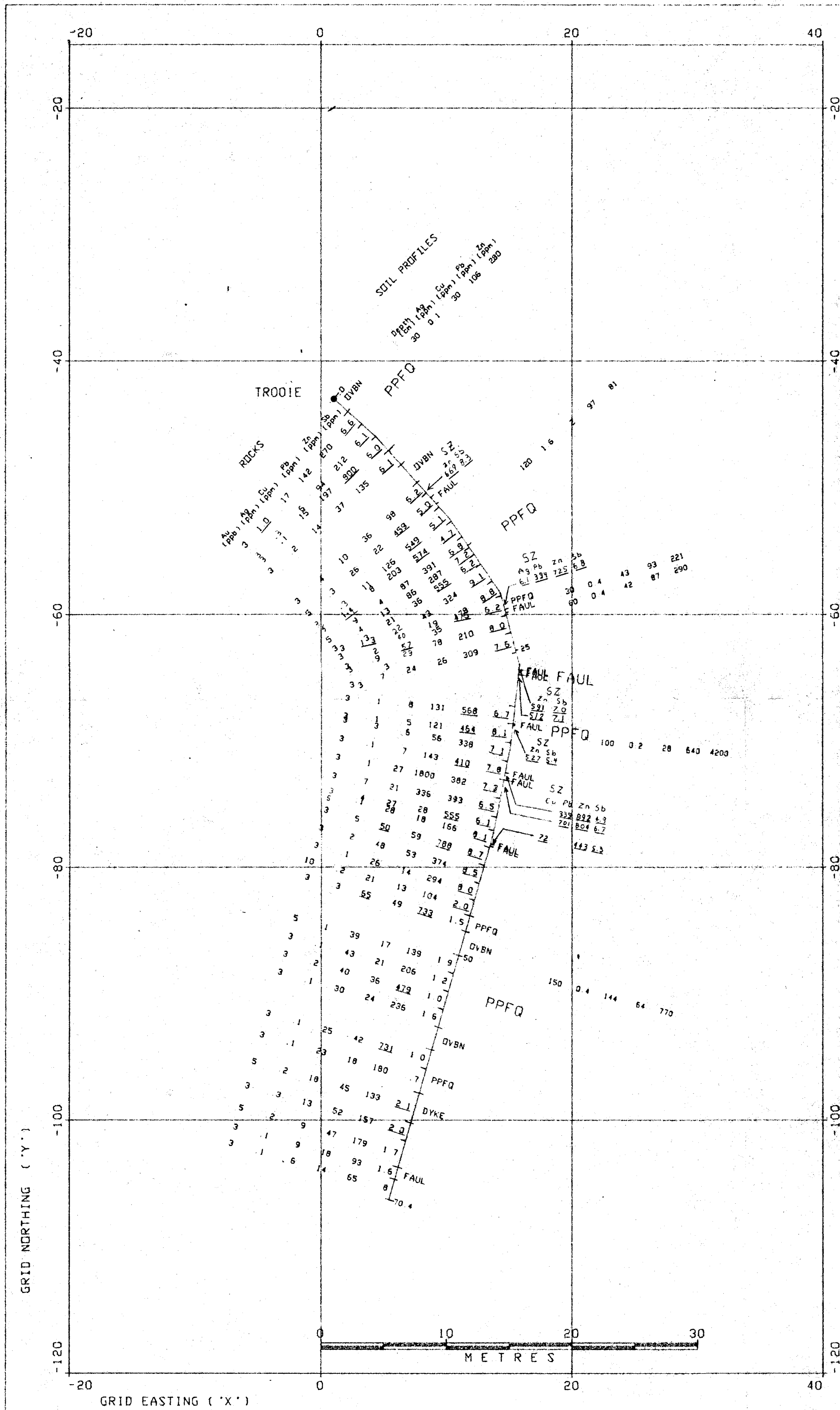
TR0265N

*Part 2 of 2*

**DATA FILE:**

- POSTED DATA
- ASSAYS    DH    ROCK TYPE
- AU                    PGI
- AG                    RI
- PB

DRAWN NEM		PLACER DOME INC.	
DATE 89.11.07		SPRING PROJECT '89	
SCALE 1:250		NORTH TROUT CREEK AREA	
		SOUTH ZONE	
NO.		PLATE	



**LEGEND**

- TRENCH**
- TRENCH COLLAR
  - CHIP SAMPLE INTERVAL WITH SIGNIFICANT GEOCHEMICAL RESULTS (PLOTTED TO FAR LEFT)
  - SZ SHEAR ZONE SAMPLE LOCATION WITH SIGNIFICANT GEOCHEMICAL RESULTS
  - PPFQ GEOLOGIC INTERVAL
  - 25 DISTANCE FROM COLLAR (m)
- SOIL PROFILES**
- PLOTTED TO THE FAR RIGHT WITH
  - DEPTH IN CENTIMETRES
  - SIGNIFICANT GEOCHEMICAL RESULTS

- ROCK TYPE CODES**
- CGNG : COARSE-GRAINED BIOTITE GNEISS
  - DYKE : FINE-GRAINED DYKE ROCK (ANDALUSITE)
  - FAUL : FAULT OR SHEAR ZONE
  - GRAN : GRANITE PEGMATITE
  - OVBN : OVERBURDEN
  - PPFQ : PORPHYRITIC QUARTZ-FELDSPAR HORNZONITE
  - OBGN : PLAGIOCLASE-QUARTZ-BIOTITE GNEISS
  - OZDR : BIOTITE-HORNBLende QUARTZ-DIORITE

**19,420**  
Part 2 of 2

**GEOLOGICAL BRANCH ASSESSMENT REPORT**

**FIGURE 15. TRENCH PLAN: TR001E**

DATA FILE:  
 POSTED DATA  
 ASSAYS DH ROCK TYPE  
 AU PGI  
 AG RI  
 CU

DRAWN NEM		PLACER DOME INC.	
DATE 89:11:08		SPRING PROJECT '89	
SCALE 1:250		NORTH TROUT CREEK AREA	
NO.		PLATE	

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

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of 2

19,420

LEGEND

- TRENCH
  - O TRENCH COLLAR
  - CHIP SAMPLE INTERVAL WITH SIGNIFICANT GEOCHEMICAL RESULTS (PLOTTED TO FAR LEFT)
  - SZ SHEAR ZONE SAMPLE LOCATION WITH SIGNIFICANT GEOCHEMICAL RESULTS
  - PPFQ GEOLOGIC INTERVAL
  - 25 DISTANCE FROM COLLAR (m)
- SOIL PROFILES
  - PLOTTED TO THE FAR RIGHT WITH - DEPTH IN CENTIMETRES - SIGNIFICANT GEOCHEMICAL RESULTS
- ROCK TYPE CODES
  - CGGN : COARSE-GRAINED BIOTITE GNEISS
  - FAUL : FAULT OR SHEAR ZONE
  - GRAN : GRANITE PEGMATITE
  - OVBN : OVERBURDEN
  - PPFQ : PORPHYRITIC QUARTZ-FELDSPAR MONZONITE
  - QBGN : PLAGIOCLASE-QUARTZ-BIOTITE GNEISS

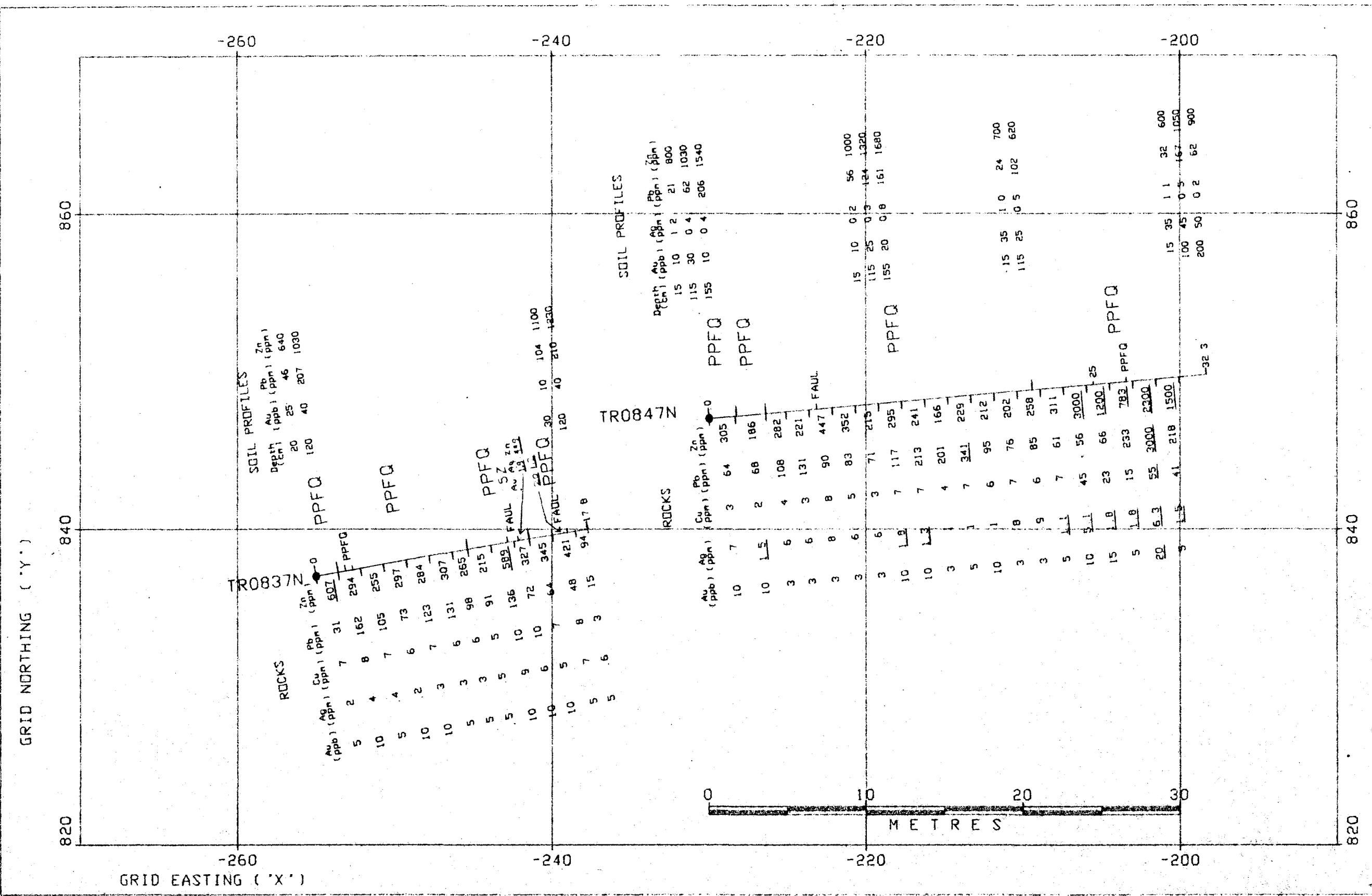


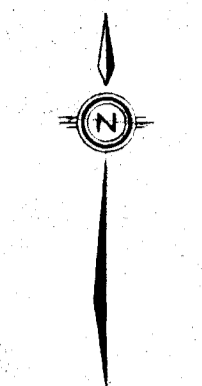
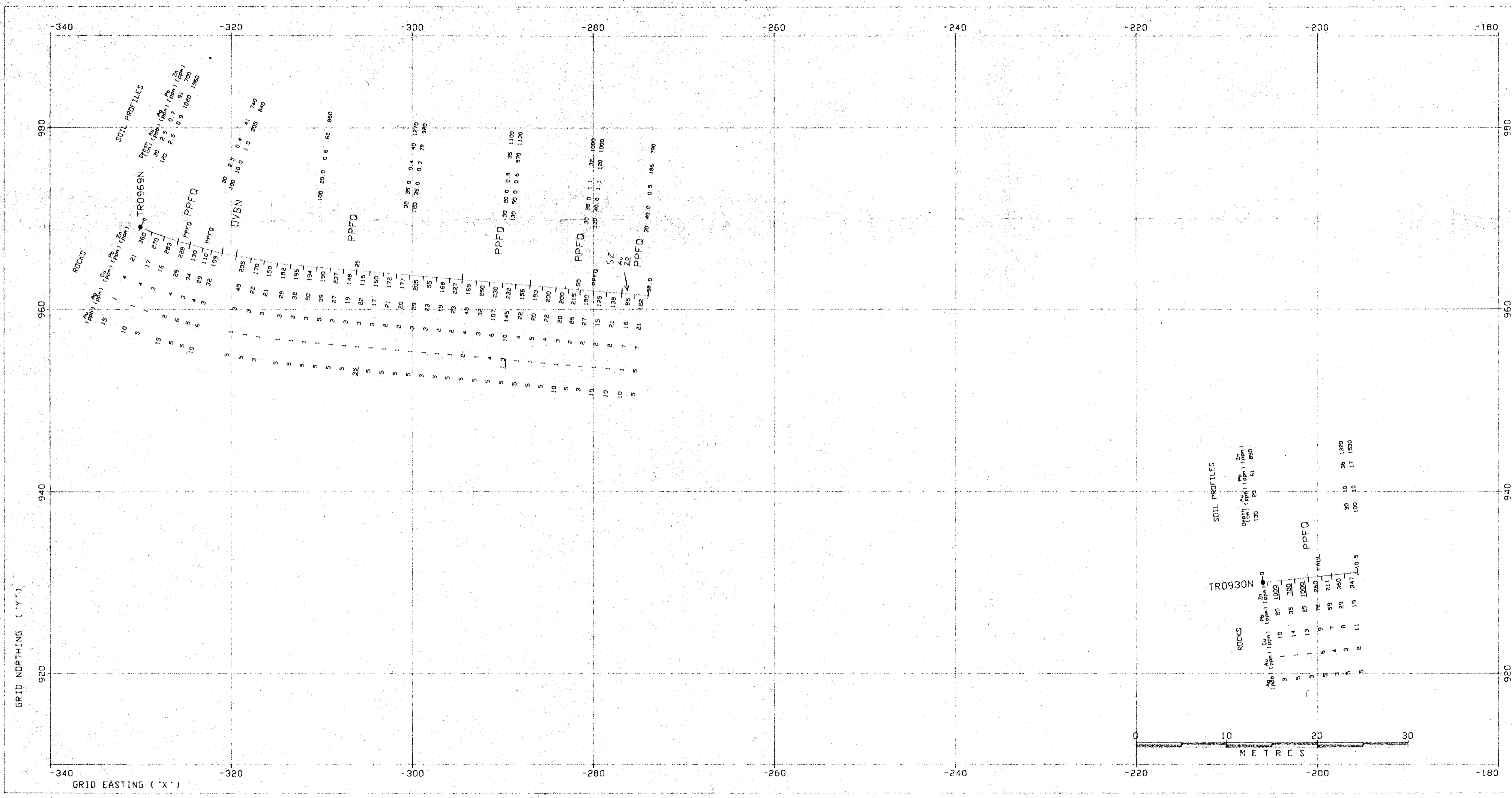
FIGURE 17. TRENCH PLAN: TR0837N

TR0847N

DATA FILE:

POSTED DATA  
ASSAYS DH ROCK TYPE  
AU PGI  
AG RI  
CU

DRAWN NEM		PLACER DOME INC.	
DATE 89:11:07		SPRING PROJECT '89	
SCALE 1:250		NORTH TROUT CREEK AREA	
		CENTRAL ZONE	
NO.		PLATE	



**LEGEND**

- TRENCH**
- TRENCH COLLAR
  - CHIP SAMPLE INTERVAL WITH SIGNIFICANT GEOCHEMICAL RESULTS (PLOTTED TO FAR LEFT)
  - SZ SHEAR ZONE SAMPLE LOCATION WITH SIGNIFICANT GEOCHEMICAL RESULTS
  - PPFQ GEOLOGIC INTERVAL
  - 25 DISTANCE FROM COLLAR (m)

- SOIL PROFILES**
- PLOTTED TO THE FAR RIGHT WITH
  - DEPTH IN CENTIMETRES
  - SIGNIFICANT GEOCHEMICAL RESULTS

- ROCK TYPE CODES**
- CGNG : COARSE-GRAINED BIOTITE GNEISS
  - DYKE : FINE-GRAINED DYKE ROCK (ANDERITE)
  - FAUL : FAULT OR SHEAR ZONE
  - GRAM : GRANITE PEGMATITE
  - OVBN : OVERBURDEN
  - PPFQ : PORPHYRITIC QUARTZ-FELDSPAR MONZONITE
  - QBGN : PLAGIOCLASE-QUARTZ-BIOTITE GNEISS
  - QZDR : BIOTITE-HORNBLende QUARTZ-DIORITE

GEOLOGICAL BRANCH  
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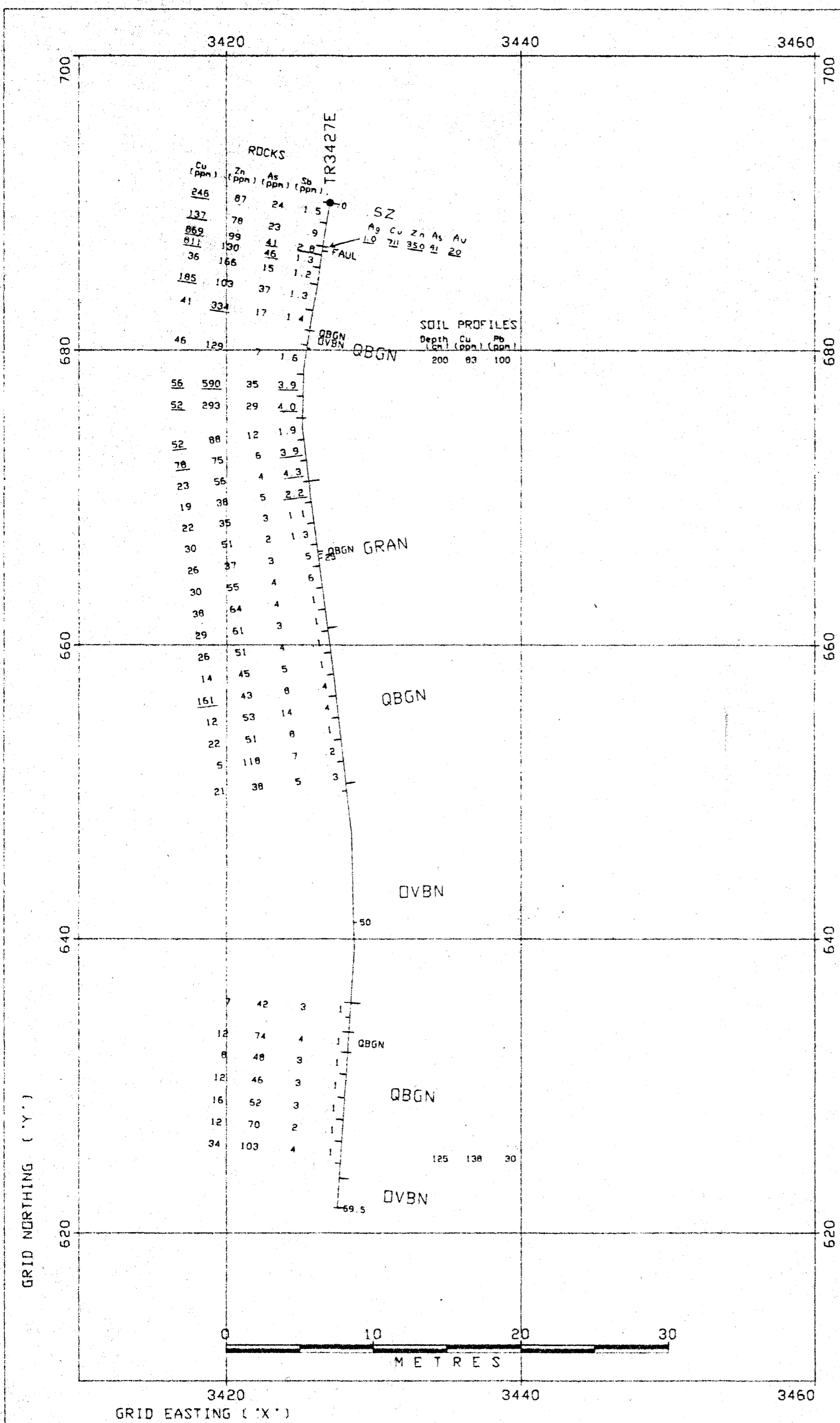
part 2 of 2

**FIGURE 18. TRENCH PLAN: TR0930N  
TR0969N**

DATA FILE:  
 POSTED DATA  
 ASSAYS    DH    ROCK TYPE  
 AU        PGI  
 AG        RI  
 CU

DRAWN NEM		PLACER DOME INC.	
DATE 89:11:07		SPRING PROJECT '89	
SCALE 1:250		NORTH TROUT CREEK AREA	
		<b>NORTH ZONE</b>	
NO			PLATE





**LEGEND**

- TRENCH**
- TRENCH COLLAR
  - CHIP SAMPLE INTERVAL WITH SIGNIFICANT GEOCHEMICAL RESULTS (PLOTTED TO FAR LEFT)
  - SZ SHEAR ZONE SAMPLE LOCATION WITH SIGNIFICANT GEOCHEMICAL RESULTS
  - PPFQ GEOLOGIC INTERVAL
  - 25 DISTANCE FROM COLLAR (m)

- SOIL PROFILES**
- PLOTTED TO THE FAR RIGHT WITH DEPTH IN CENTIMETRES
  - SIGNIFICANT GEOCHEMICAL RESULTS

**ROCK TYPE CODES**

- CONG : COARSE-GRAINED BIOTITE GNEISS
- DYKE : FINE-GRAINED DYKE ROCK (ANDESITE)
- FAULT : FAULT OR SHEAR ZONE
- GRAN : GRANITE-PEGMATITE
- OVBN : OVERBURDEN
- PPFQ : PORPHYRITIC QUARTZ-FELDSPAR MONZONITE
- QBGN : PLAGIOCLASE-QUARTZ-BIOTITE GNEISS
- OZDR : BIOTITE-HORNBLÉNDÉ QUARTZ-DIORITE

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**FIGURE 20. TRENCH PLAN: TR3427E**

DATA FILE:  
POSTED DATA  
ASSAYS    DH    ROCK TYPE  
CU                    PGI  
ZN                    RI  
AS

PLACER DOME INC.	
DRAWN NEM	SPRING PROJECT '89
DATE 89:11:07	EAST ZONE AREA
SCALE 1:250	
NO.	PLATE

SPRING PROJECT  
1988 AND 1989 SOILS  
GOLD SYMBOL PLOT

- 1988 GOLD VALUES
- △ < 6 PPB
  - △ 6 - 19 PPB
  - △ 20 - 49 PPB
  - △ 50 - 99 PPB
  - △ > 100 PPB
- 1989 GOLD VALUES
- < 6 PPB
  - 6 - 19 PPB
  - 20 - 49 PPB
  - ⊗ 50 - 100 PPB
  - ⊗ > 100 PPB

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DATA PLOTTED ON THIS MAP:  
 DIRECTORY: 3EXPL/SPRING/GEOCHEM  
 FIELD FILE  
 POINTS: RU ALLSG89.SOL  
 POINTS: RU SG88.SOL

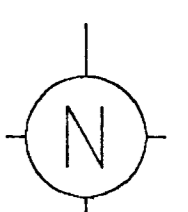
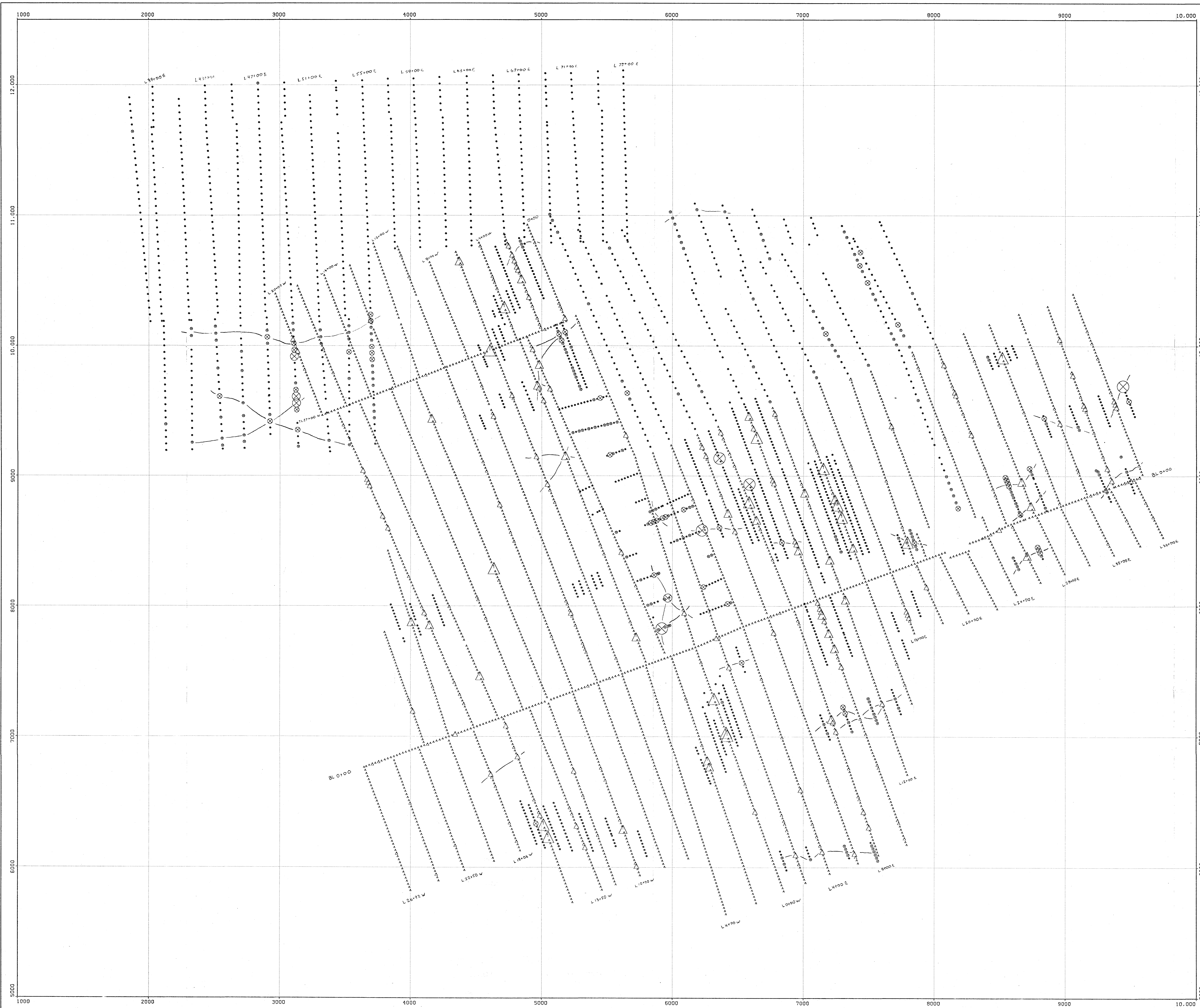


FIGURE 21.

PLACER DOME INC.

DRAWN	NEM	SPRING PROJECT
DATE	89:11:10	1988 AND 1989 SOILS
SCALE	1:10000	GOLD SYMBOL PLOT
No.		PLATE



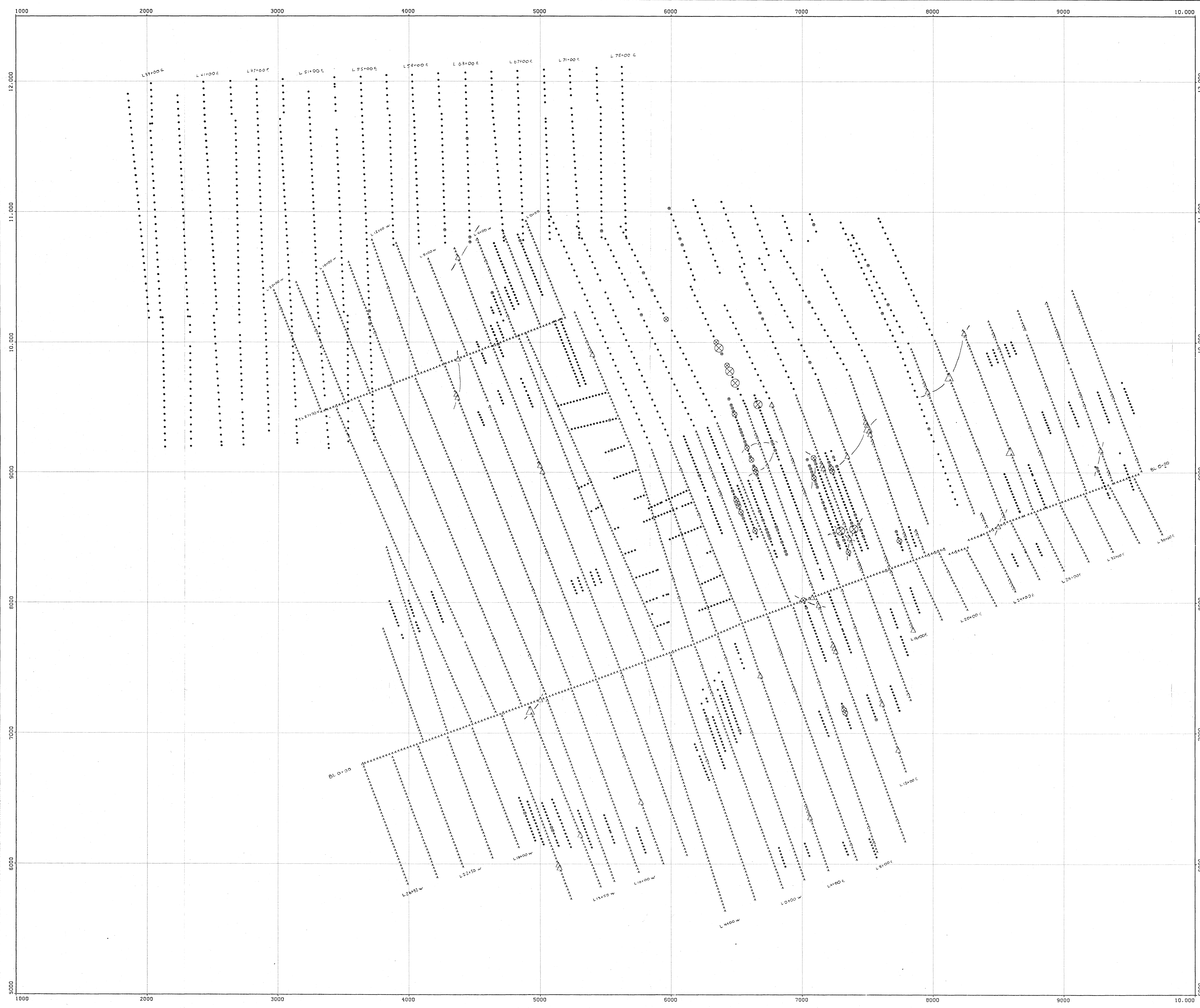
SPRING PROJECT  
1988 AND 1989 SOILS  
COPPER SYMBOL PLOT

1988 COPPER VALUES

- < 40 PPM
- △ 40 - 79 PPM
- △ 80 - 159 PPM
- △ > 160 PPM

1989 COPPER VALUES

- < 40 PPM
- 40 - 79 PPM
- ⊗ 80 - 159 PPM
- ⊗ > 160 PPM



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DATA PLOTTED ON THIS MAP:  
DIRECTORY: 88PL/SPRING/GEOCHEM  
FIELD FILE  
POINTS: CU ALL5889.SOL  
POINTS: CU 5888.SOL

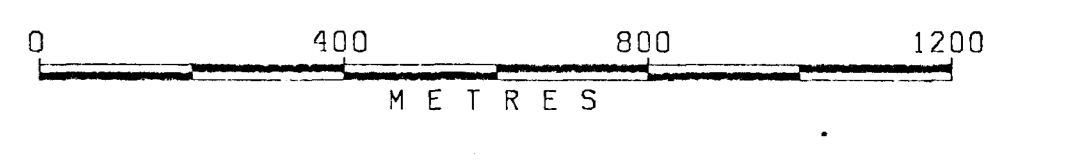
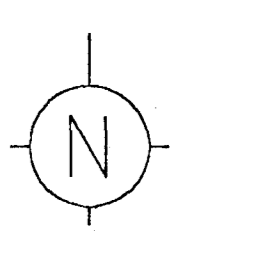


FIGURE 22.

DRAWN NEM		PLACER DOME INC.	
DATE 89:11:10		SPRING PROJECT	
SCALE 1:10000		1988 AND 1989 SOILS	
		COPPER SYMBOL PLOT	
		PLATE	

SPRING PROJECT  
1988 AND 1989 SOILS  
ZINC SYMBOL PLOT

- 1988 ZINC VALUES
- ▲ < 300 PPM
  - △ 300 - 599 PPM
  - △ 600 - 1199 PPM
  - △ 1200 - 2399 PPM
  - △ > 2400 PPM
- 1989 ZINC VALUES
- < 300 PPM
  - ⊙ 300 - 599 PPM
  - ⊙ 600 - 1199 PPM
  - ⊙ 1200 - 2399 PPM
  - ⊙ > 2400 PPM

GEOLOGICAL BRANCH  
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DATA PLOTTED ON THIS MAP:  
DIRECTORY: SEXPL/SPRING/GEOCHEM  
FIELD FILE  
POINTS: ZN ALL589.SOL  
POINTS: ZN SC88.SOL

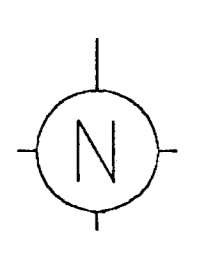
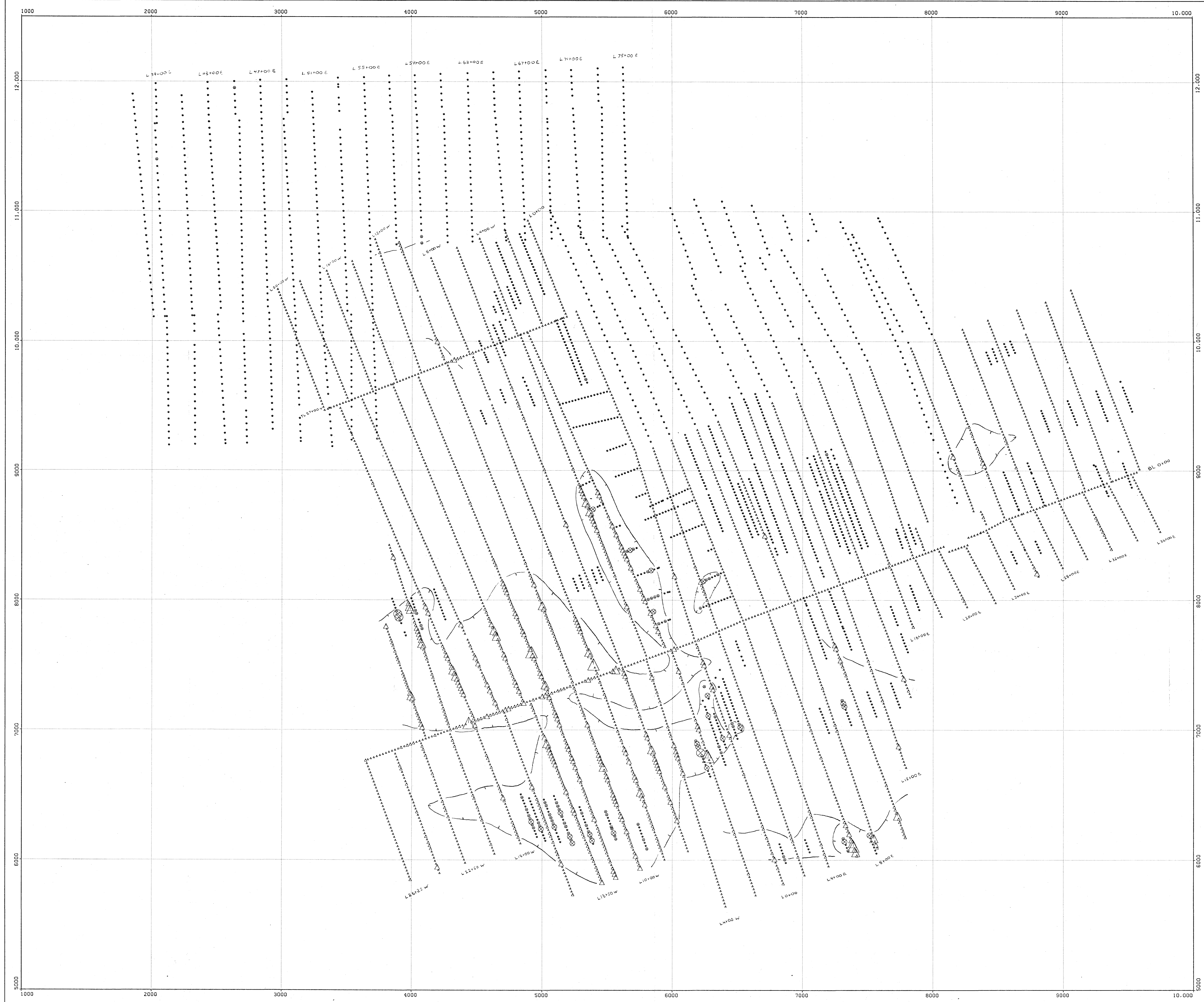


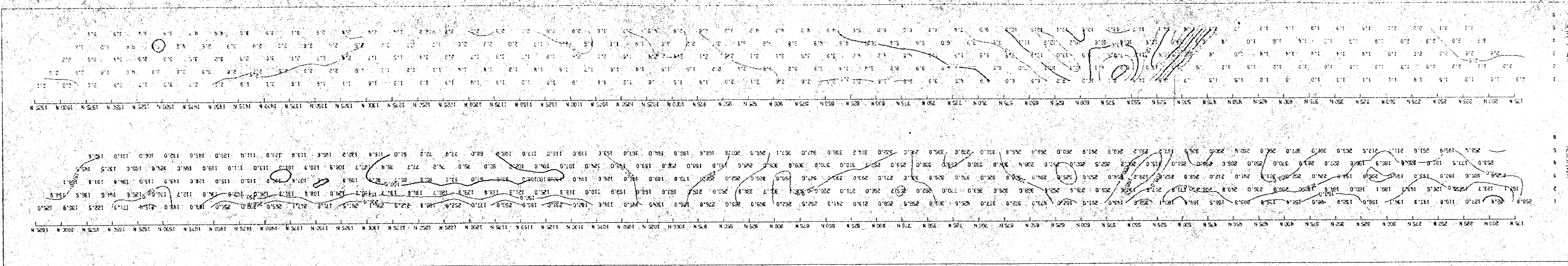
FIGURE 23.

PLACER DOME INC.  
SPRING PROJECT

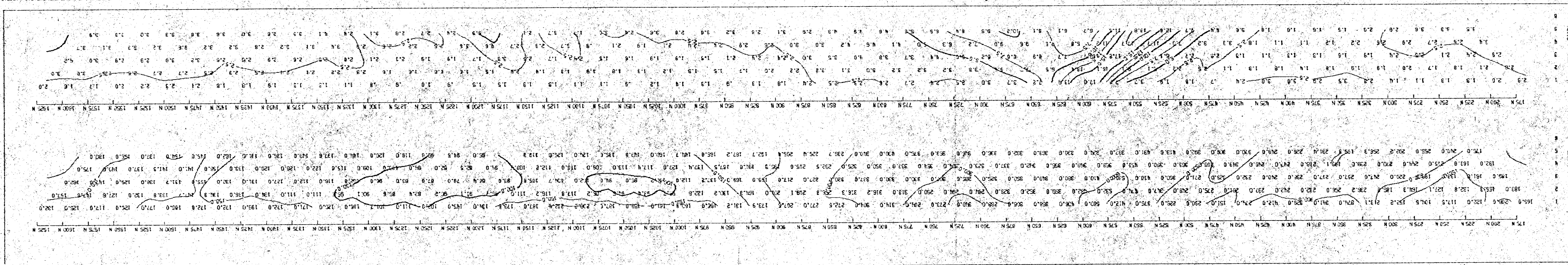
DRAWN	NEW	1988 AND 1989 SOILS
DATE	09/11/10	ZINC SYMBOL PLOT
SCALE	1:10000	PLATE



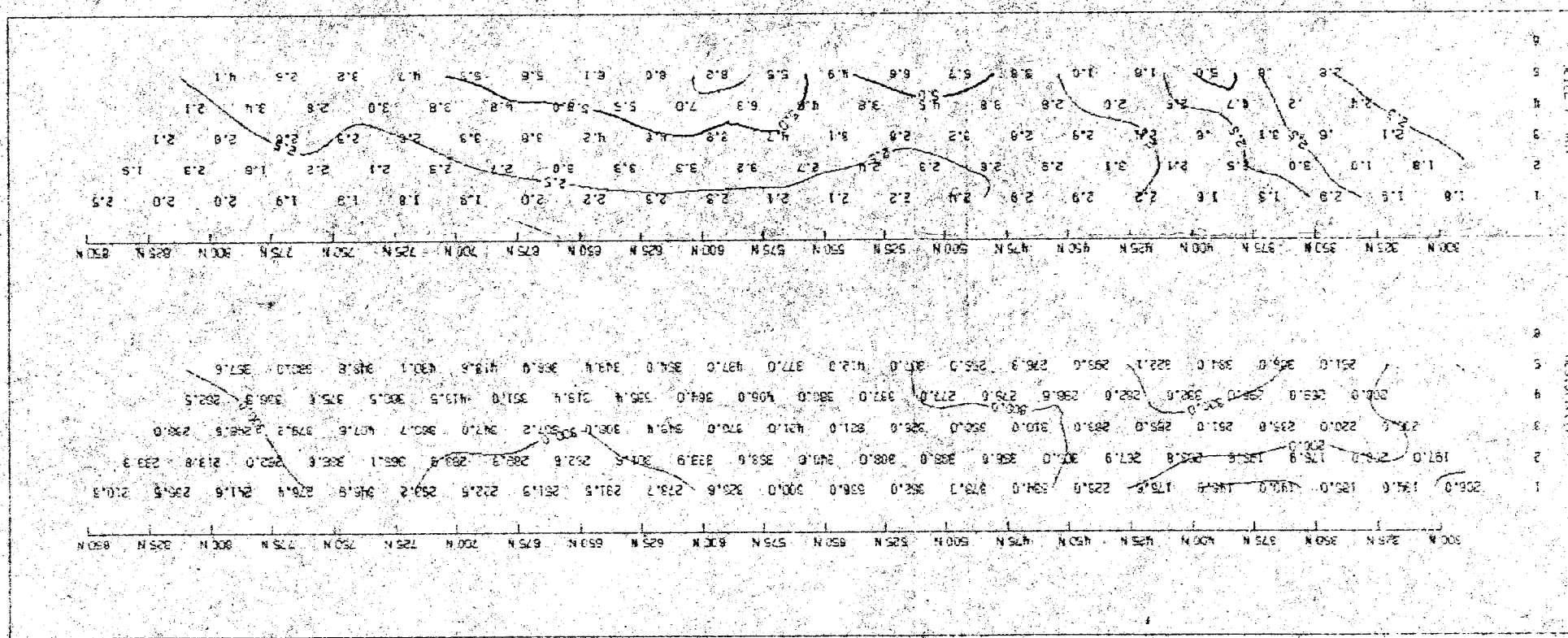
PLACER DOME, INC.  
 SPRING PROPERTY, ZONE 2  
 LINE NUMBER: 600 EAST  
 N=1 TO 5  
 SCINTEX 19H-11 RECEIVER  
 TX PULSE TIME: 2.0 SEC  
 RECEIVE TIME: 2.0 SEC  
 SCALE: 1: 1250  
 RESISTIVITY



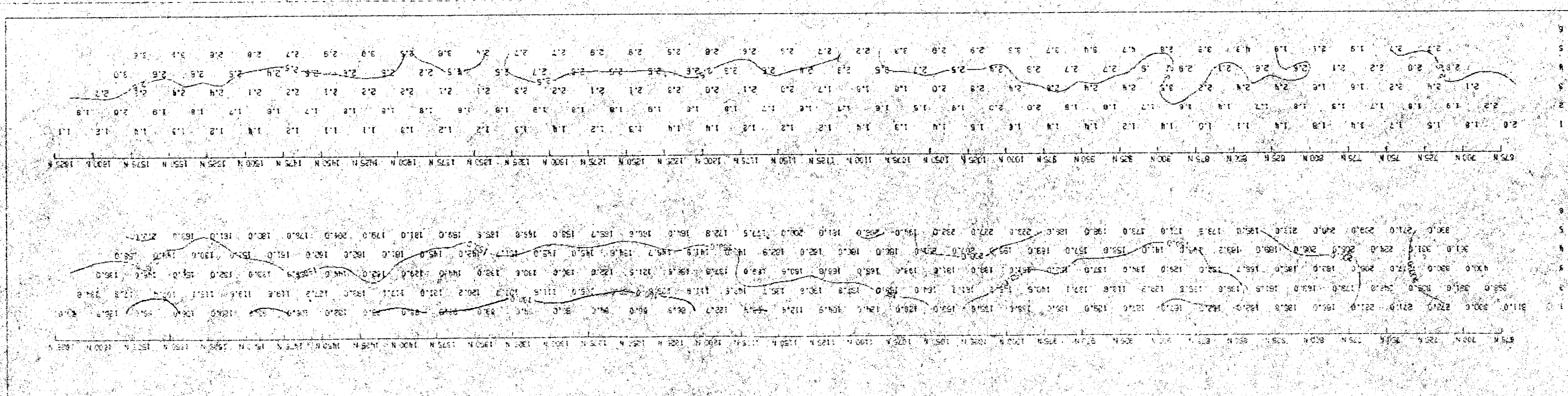
PLACER DOME, INC.  
 SPRING PROPERTY, ZONE 2  
 LINE NUMBER: 700 EAST  
 N=1 TO 5  
 SCINTEX 19H-11 RECEIVER  
 TX PULSE TIME: 2.0 SEC  
 RECEIVE TIME: 2.0 SEC  
 SCALE: 1: 1250  
 RESISTIVITY



PLACER DOME, INC.  
 SPRING PROPERTY, ZONE 2  
 LINE NUMBER: 800 EAST  
 N=1 TO 5  
 SCINTEX 19H-11 RECEIVER  
 TX PULSE TIME: 2.0 SEC  
 RECEIVE TIME: 2.0 SEC  
 SCALE: 1: 1250  
 RESISTIVITY



PLACER DOME, INC.  
 SPRING PROPERTY, ZONE 2  
 LINE NUMBER: 900 EAST  
 N=1 TO 5  
 SCINTEX 19H-11 RECEIVER  
 TX PULSE TIME: 2.0 SEC  
 RECEIVE TIME: 2.0 SEC  
 SCALE: 1: 1250  
 RESISTIVITY



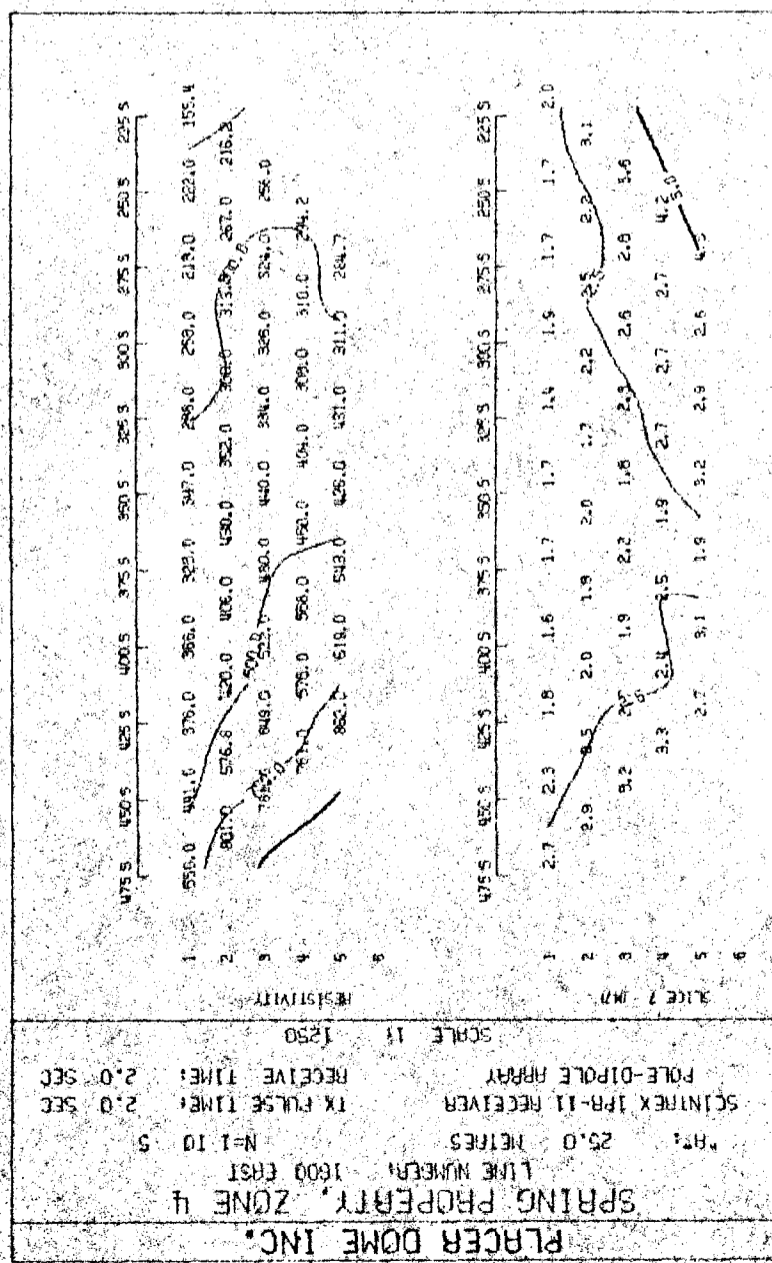
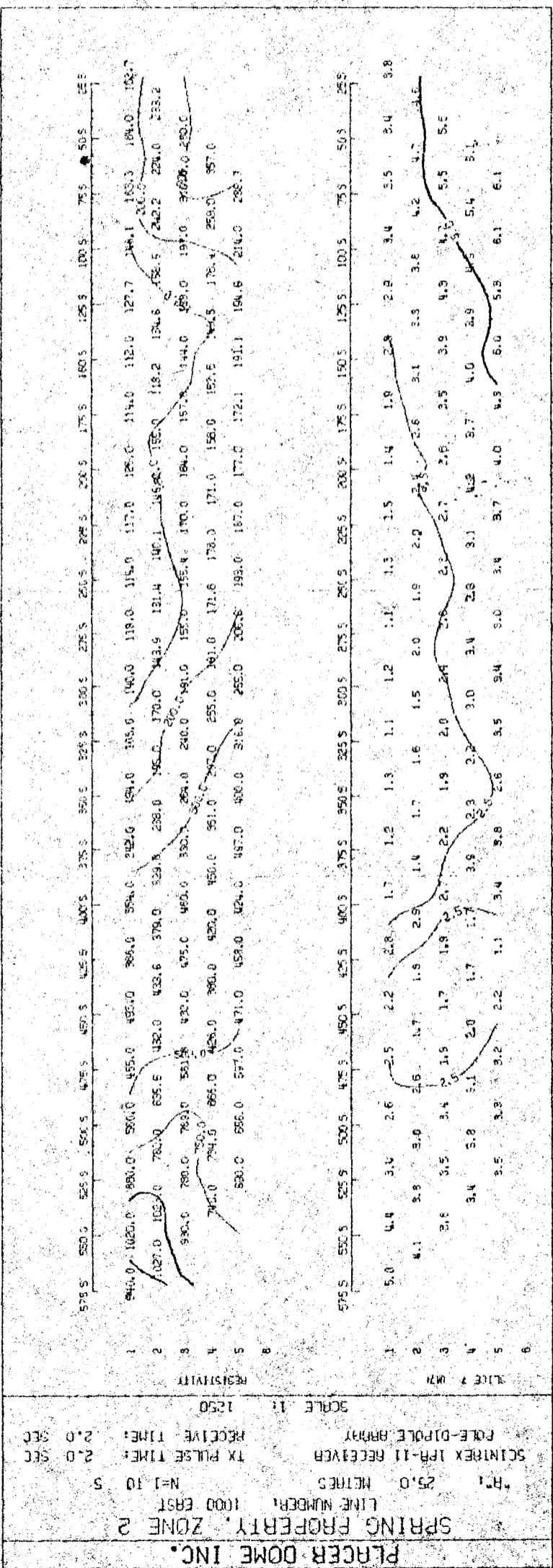
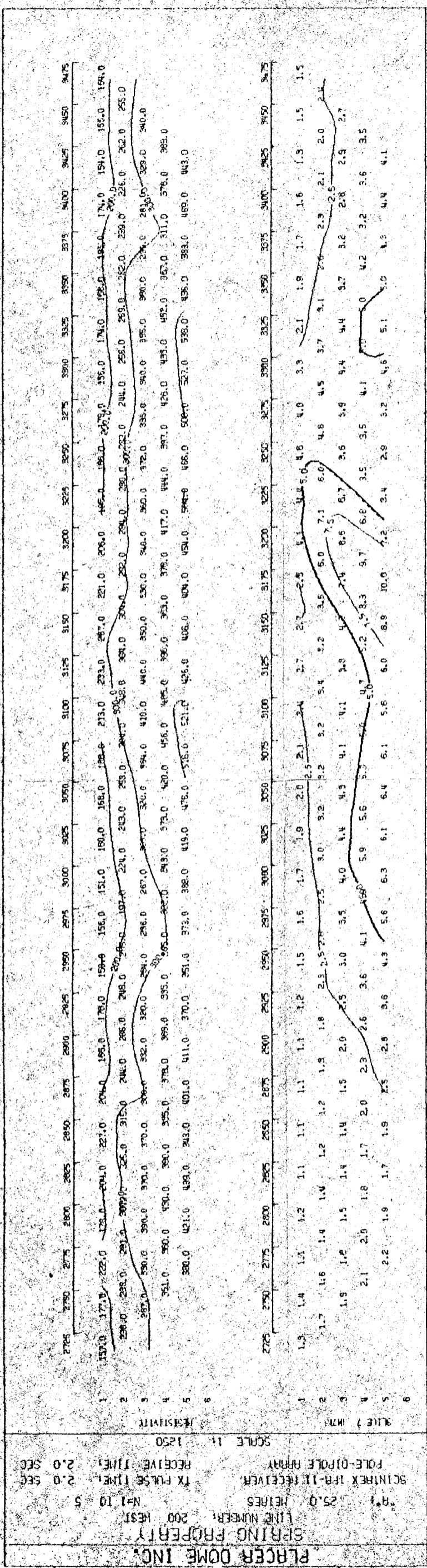
GEOLOGICAL BRANCH  
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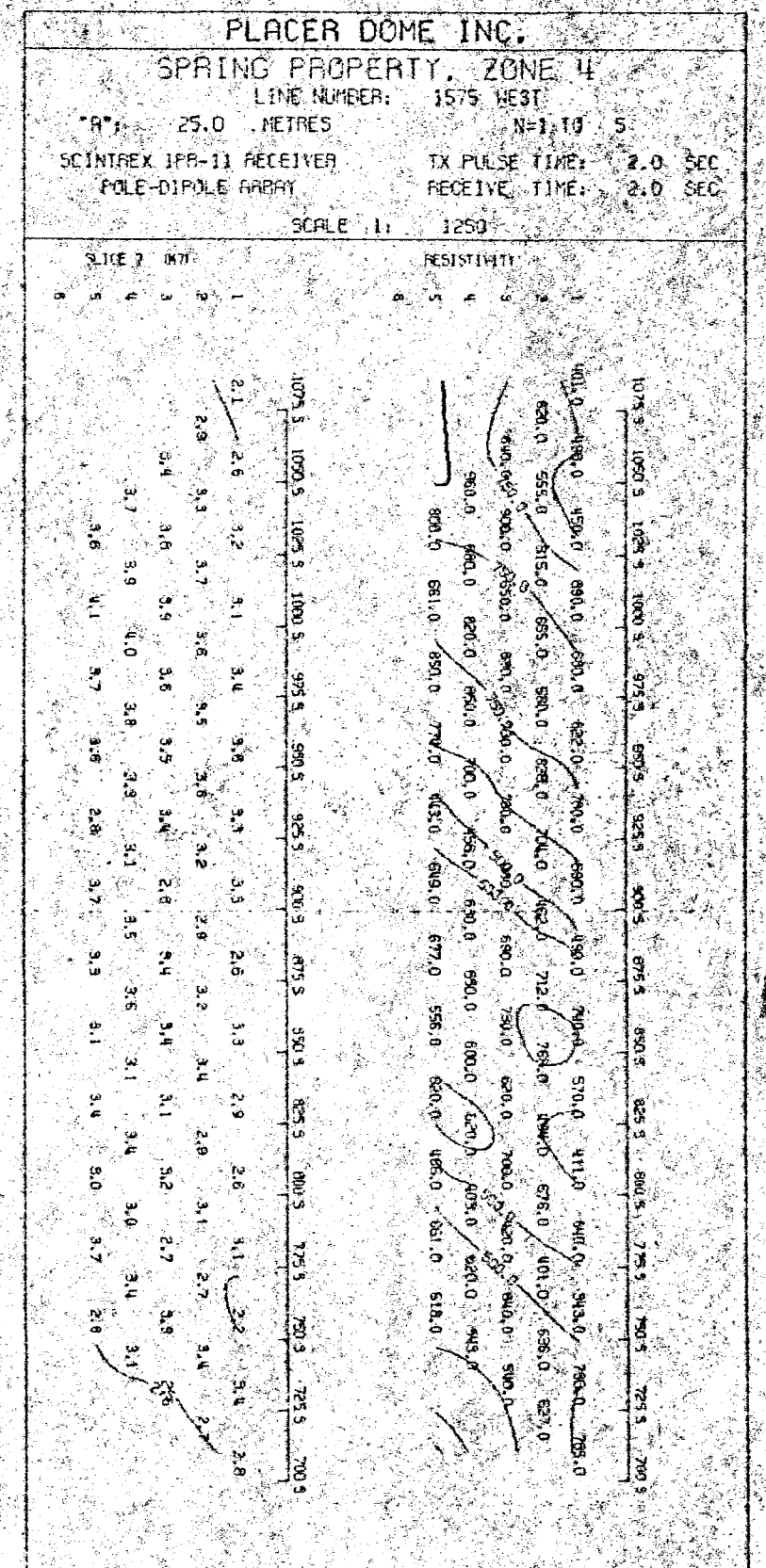
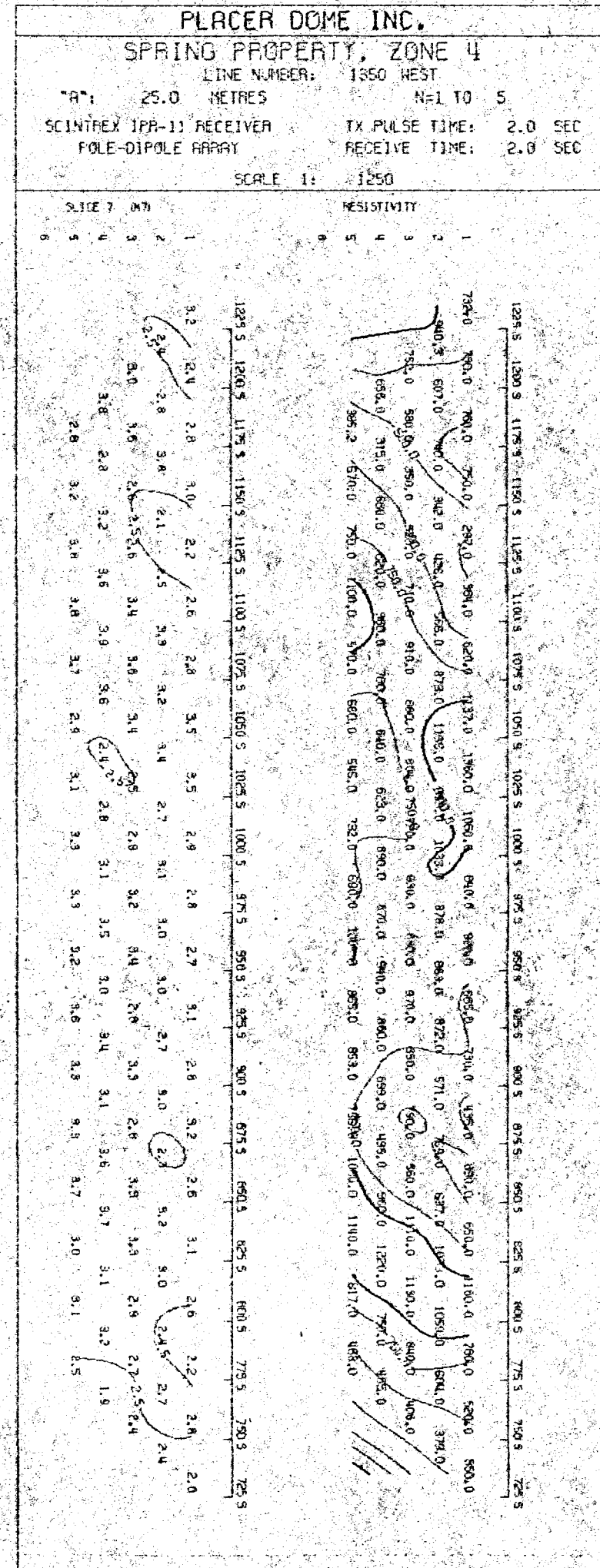
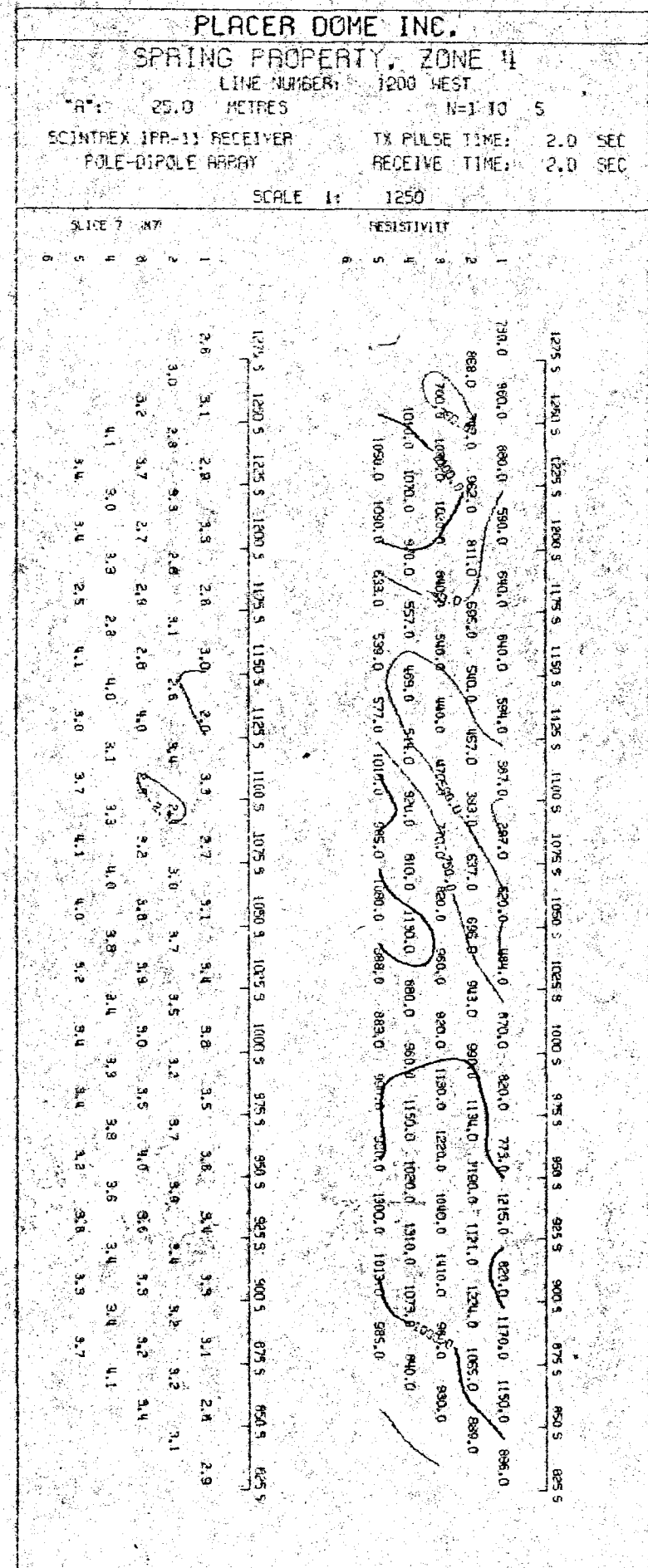
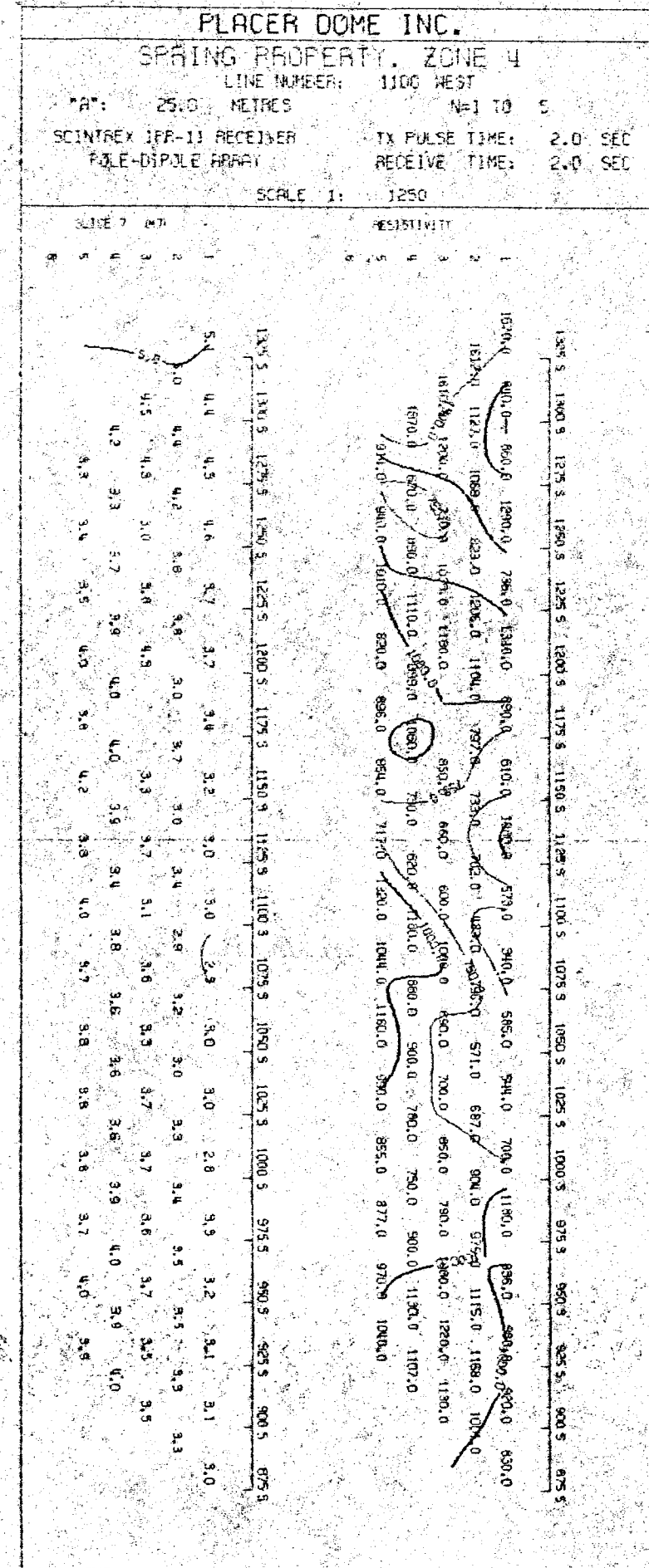
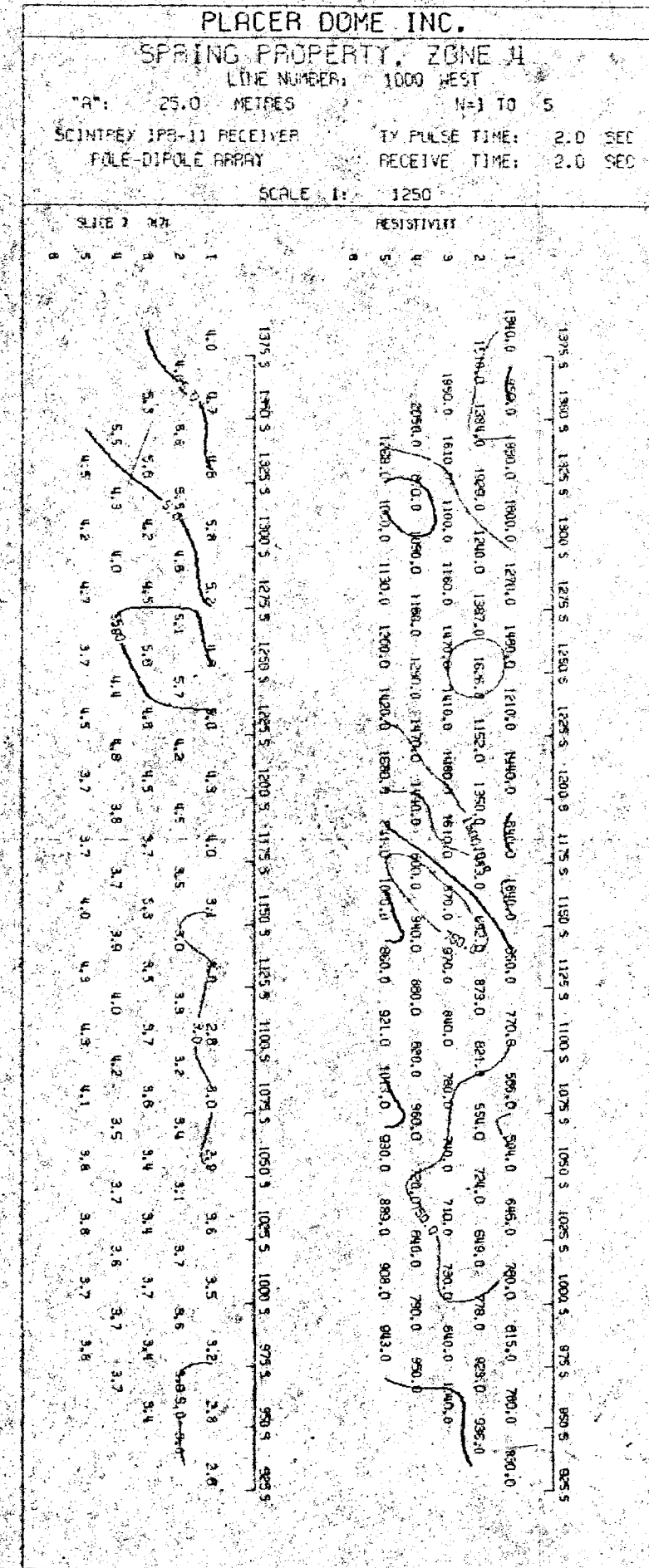
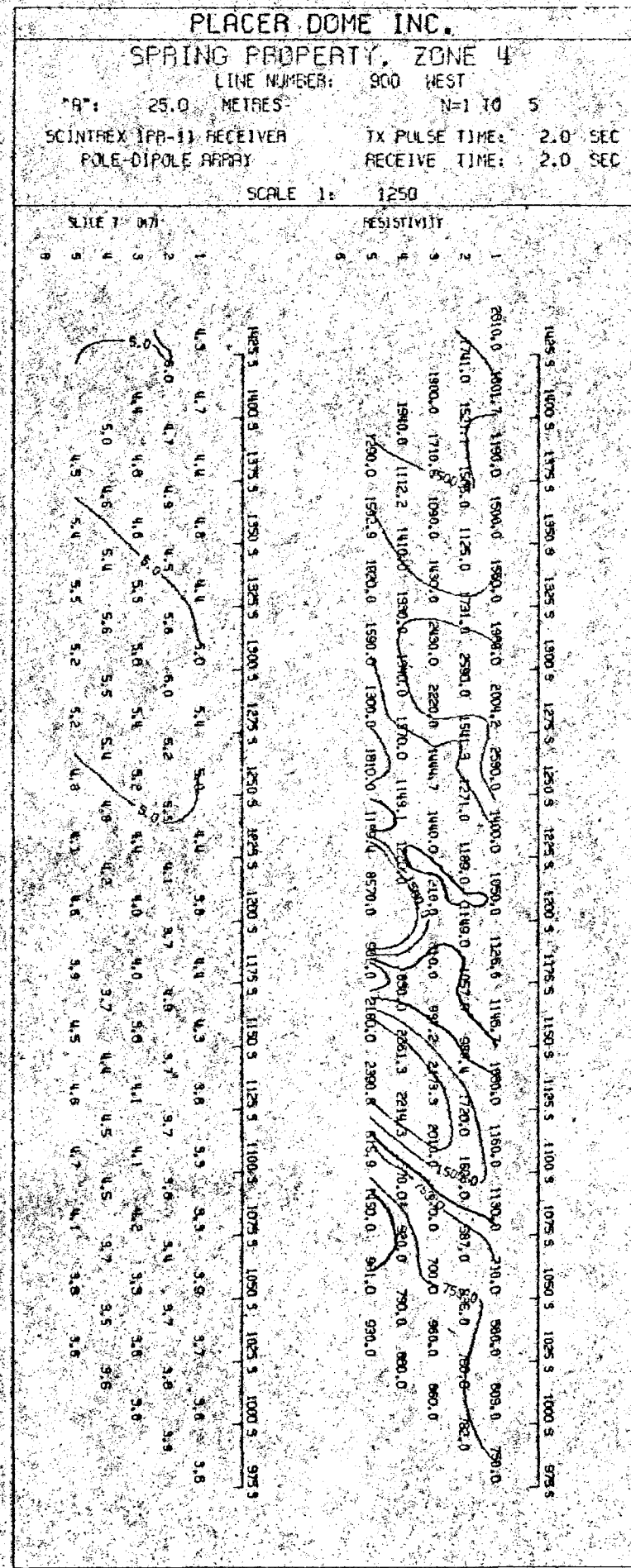
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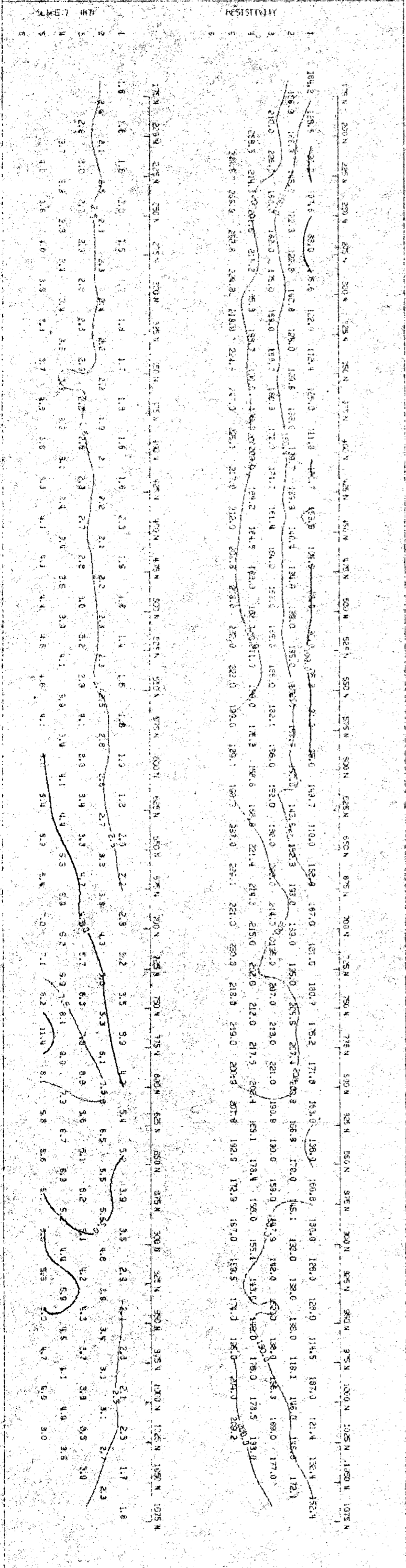




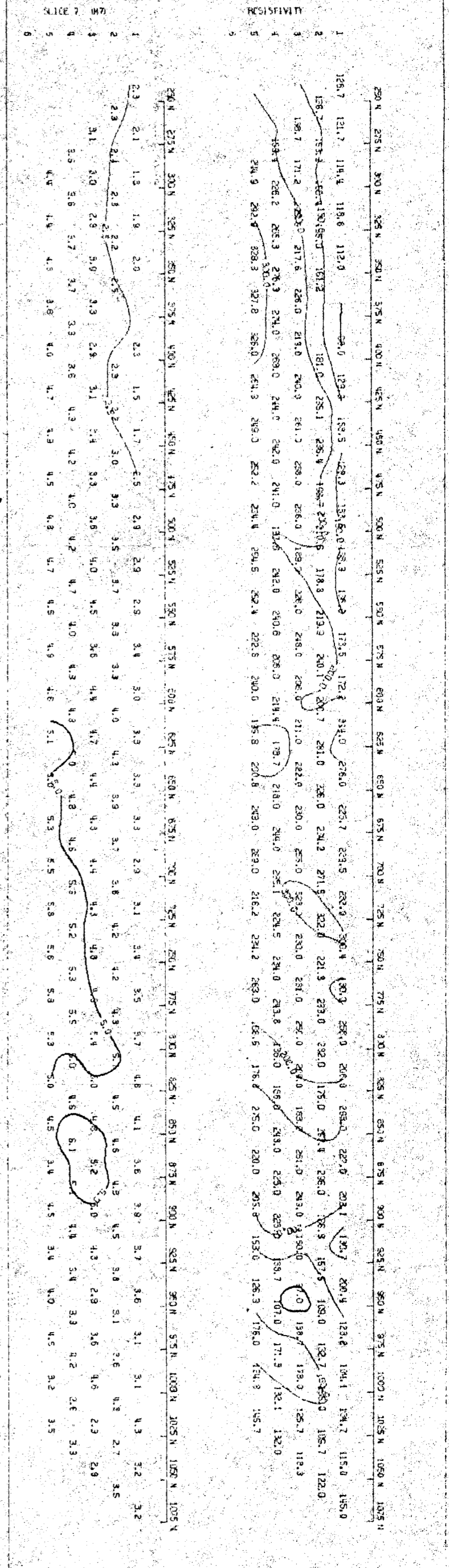
GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

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PLACER DOME INC.  
 SPRING PROPERTY, ZONE 2  
 LINE NUMBER: 1200 EAST  
 "A": 25.0 METRES N=1 TO 5  
 SCINTREX IPA-11 RECEIVER TX PULSE TIME: 2.0 SEC  
 POLE-DIPOLE ARRAY RECEIVE TIME: 2.0 SEC  
 SCALE 1: 1250

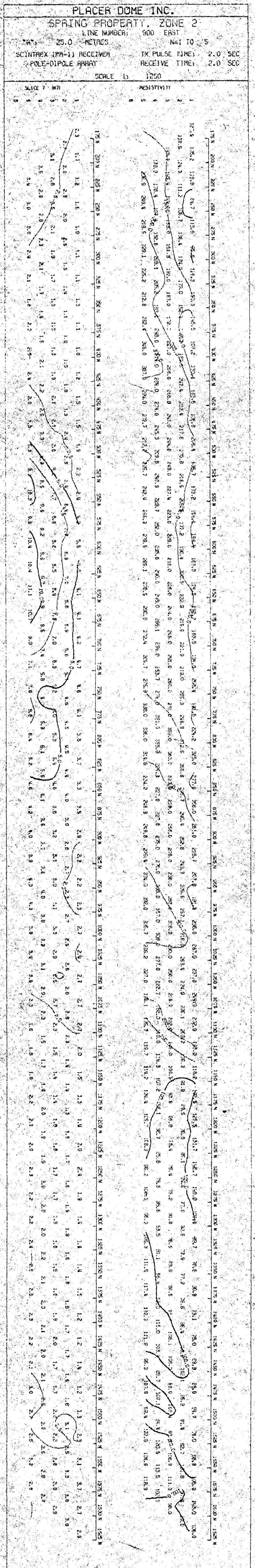
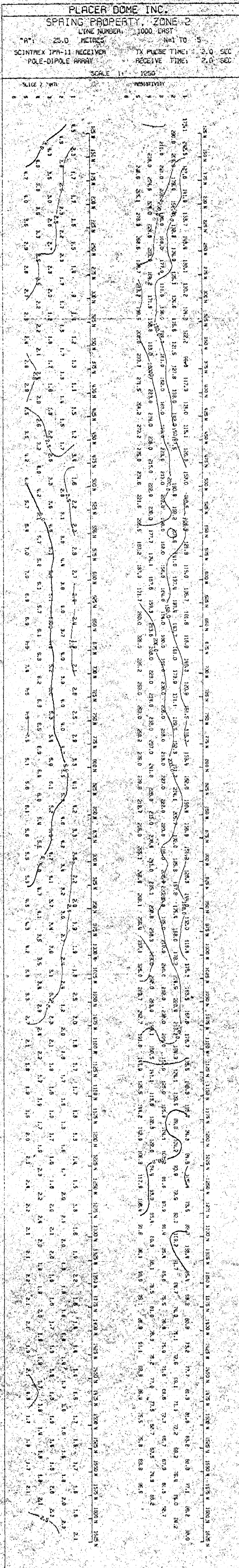
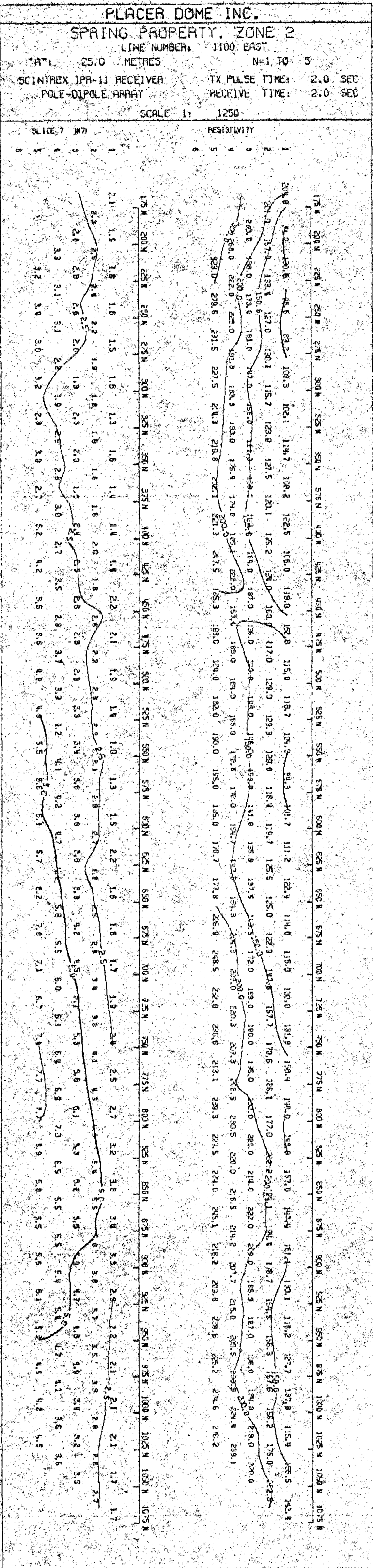


PLACER DOME INC.  
 SPRING PROPERTY, ZONE 2  
 LINE NUMBER: 1400 EAST  
 "A": 25.0 METRES N=1 TO 5  
 SCINTREX IPA-11 RECEIVER TX PULSE TIME: 2.0 SEC  
 POLE-DIPOLE ARRAY RECEIVE TIME: 2.0 SEC  
 SCALE 1: 1250



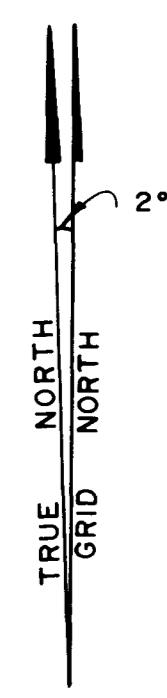
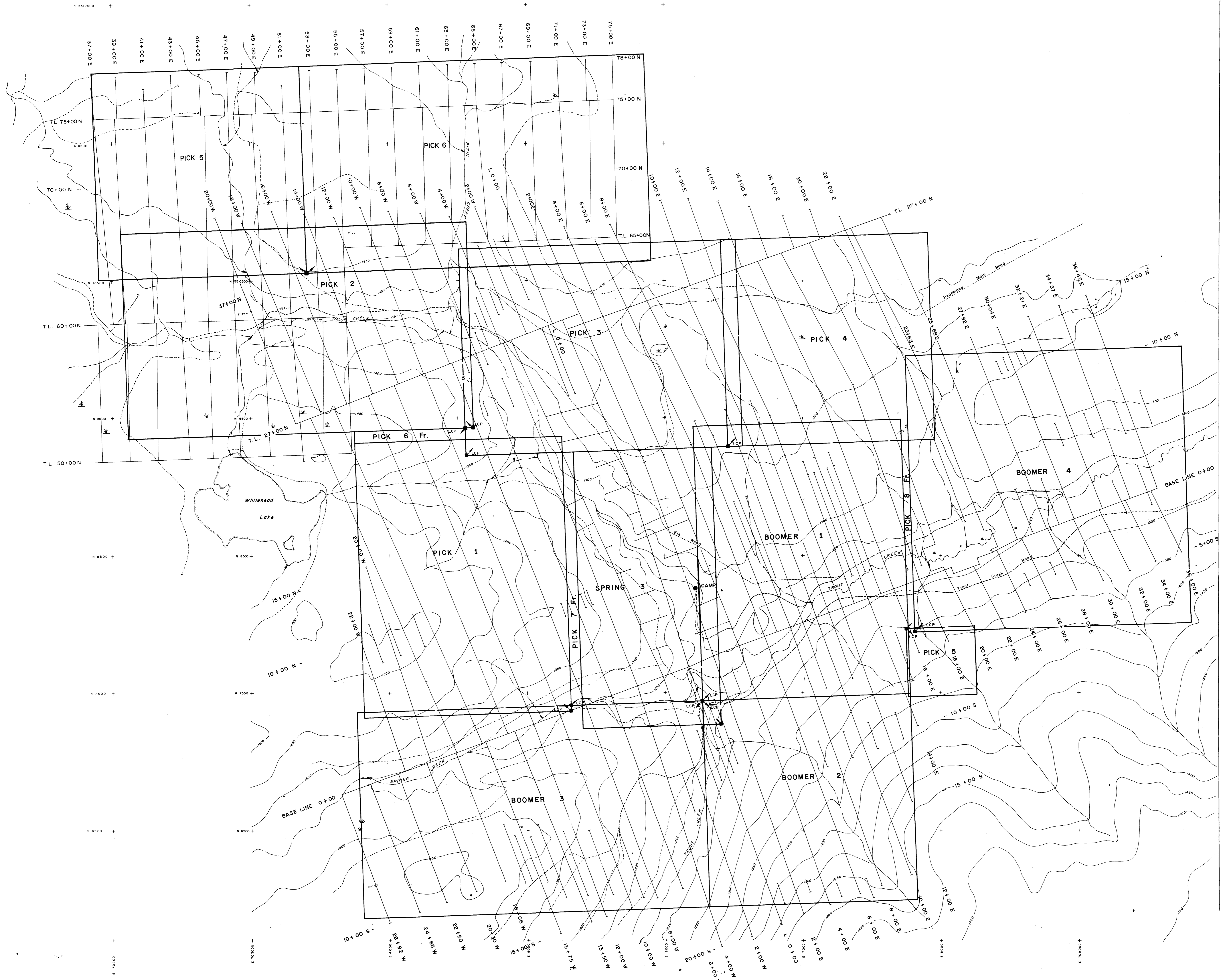
GEOLOGICAL BRANCH  
 ASSESSMENT REPORT  
**19,420**  
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 ASSESSMENT REPORT

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- LEGEND**
- ROADS, TRAILS
  - LAKE, POND
  - CREEK, STREAM
  - SWAMP, MARSH
  - CONTOUR ELEVATIONS IN METRES  
CONTOURS AT 50 M INTERVALS
  - CLAIM BOUNDARY
  - LCP  
PICK 3
  - GRID LINE

GEOLOGICAL BRANCH  
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Figure 3.

PLACER DOME INC.	
SPRING PROJECT '89	
British Columbia	
V 232	
GRID LOCATION	
TECHNICAL WORK BY: M.D.	SCALE: 1:10,000
DRAWN BY: DBM TECHNICAL SERVICES	DATE: NOV. 1989
REVISION:	FIG. NO.:

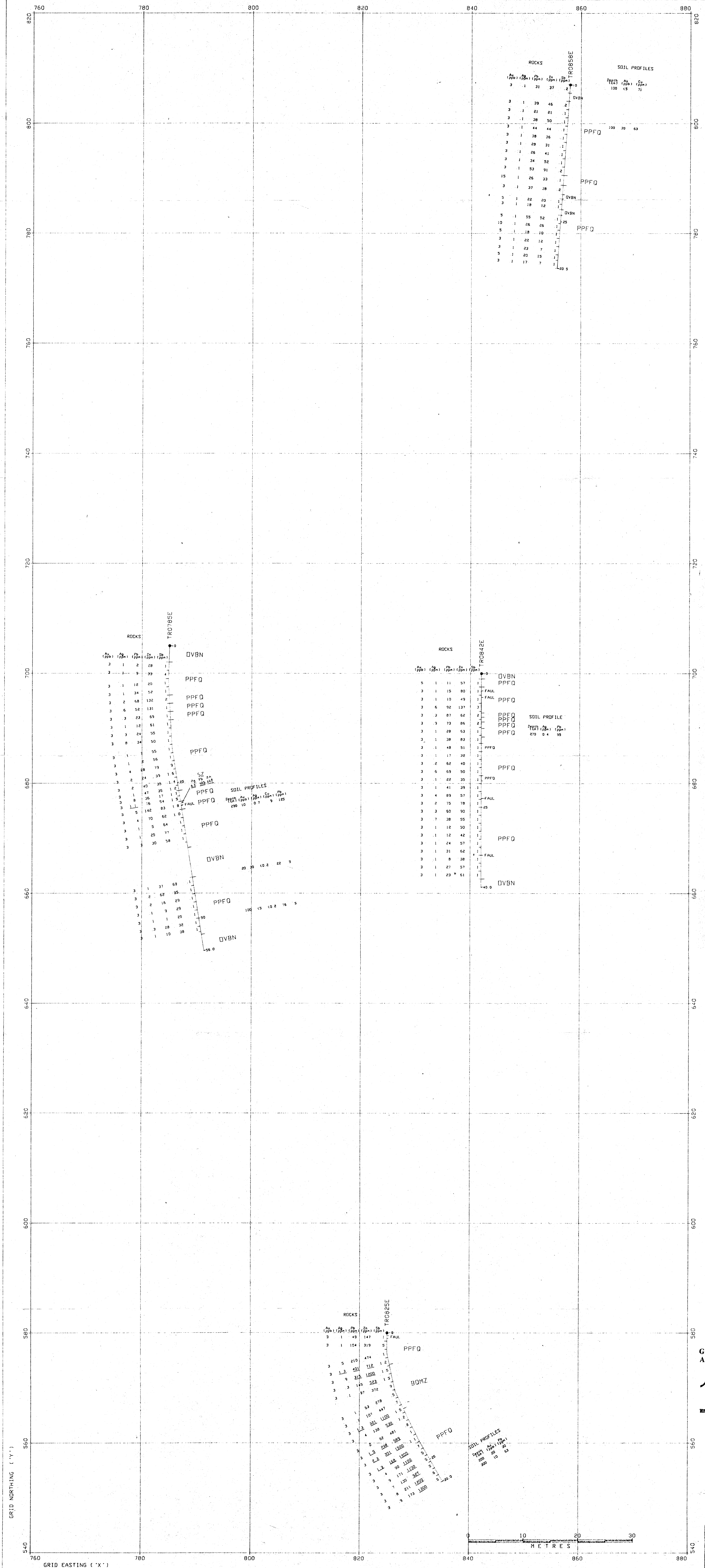


FIGURE 10. TRENCH PLAN: TR0785E  
TR0825E  
TR0842E  
TR0858E

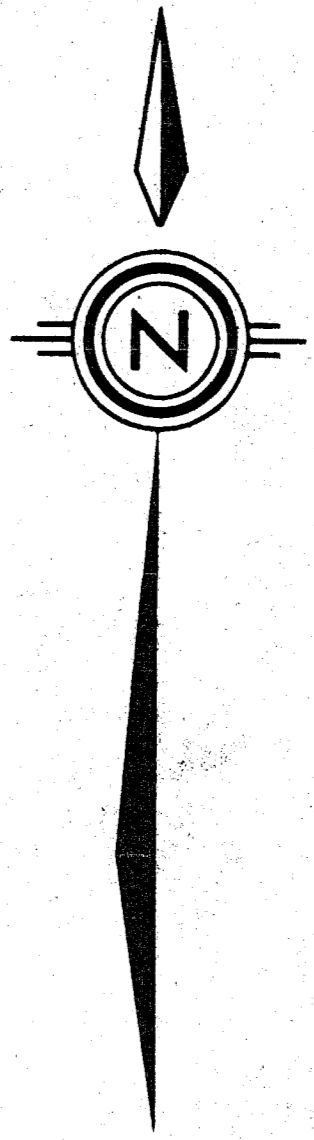
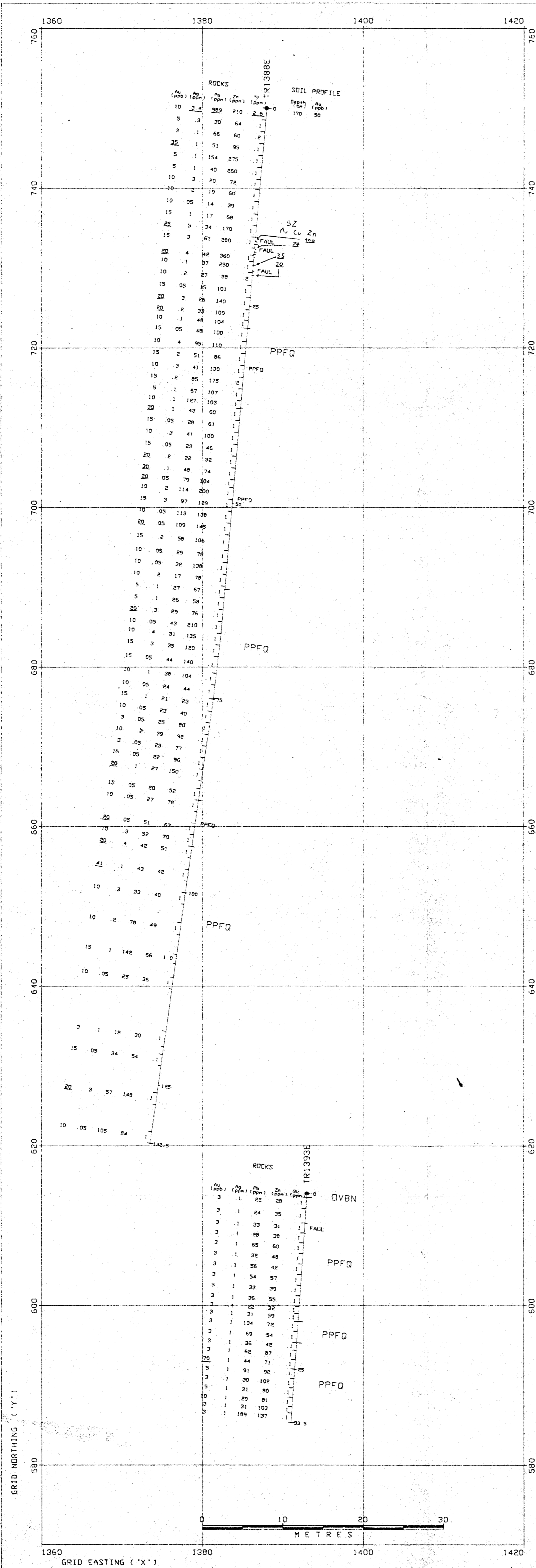
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

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Figure 10

DATA FILE:  
POSTED DATA  
ASSAYS DH ROCK TYPE  
AU PGI  
AG RI  
PB

PLACER DOME INC  
DRAWN NEM  
DATE 89:11:07  
SCALE 1:250  
SPRING PROJECT '89  
ZONE 2 AREA  
WEST HALF



**LEGEND**

- TRENCH**
- TRENCH COLLAR
- CHIP SAMPLE INTERVAL WITH SIGNIFICANT GEOCHEMICAL RESULTS (PLOTTED TO FAR LEFT)
- SZ SHEAR ZONE SAMPLE LOCATION WITH SIGNIFICANT GEOCHEMICAL RESULTS
- PPFQ GEOLOGIC INTERVAL
- 25 DISTANCE FROM COLLAR (M)
- SOIL PROFILES**
- PLOTTED TO THE FAR RIGHT WITH - DEPTH IN CENTIMETRES - SIGNIFICANT GEOCHEMICAL RESULTS
- ROCK TYPE CODES**
- CONG : COARSE-GRAINED BIOTITE GNEISS
- DYKE : FINE-GRAINED DYKE ROCK (ANDESITE)
- FAULT : FAULT OR SHEAR ZONE
- GRAM : GRANITE PEGMATITE
- OVBN : OVERBURDEN
- PPFQ : PORPHYRITIC QUARTZ-FELDSPAR MONZONITE
- QSDN : PLAGIOCLASE-QUARTZ-BIOTITE GNEISS
- QZDR : BIOTITE-HORNBLende QUARTZ-DIORITE

FIGURE 11. TRENCH PLAN: TR1388E  
TR1393E

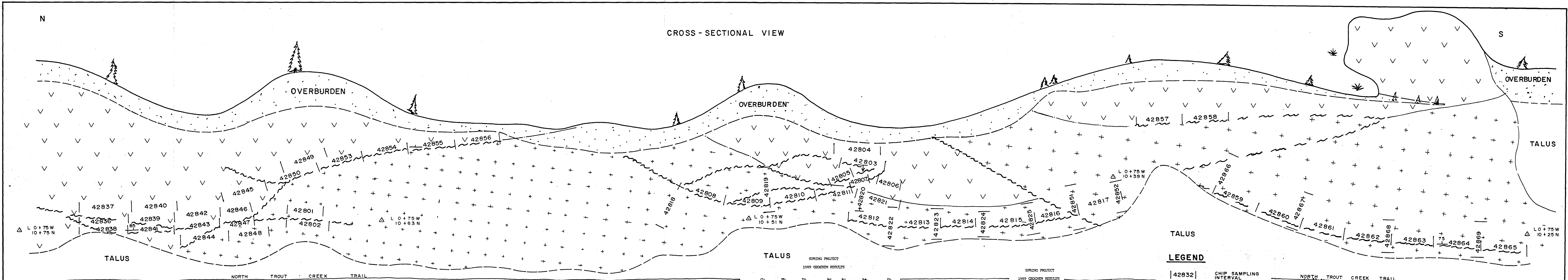
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

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DATA FILE:  
POSTED DATA  
ASSAYS DH ROCK TYPE  
AU PG1  
AG RI  
PB

DRAWN NEM		PLACER DOME INC.	
DATE 09/11/08		SPRING PROJECT '89	
SCALE 1:250		ZONE 2 AREA	
		EAST HALF	
NO.		PLATE	



SPRING PROJECT  
1989 GEOCHEM RESULTS

Samp	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppb)	Au (ppb)	As (ppm)	Sb (ppm)
42803	90	5500	3300	27.0	75	290	2.0
42804	5	82	770	6	35	52	1.0
42805	20	1150	3200	2.0	15	36	1.0
42806	16	310	1970	4.4	3	6	1.0
42807	78	3900	3600	6.0	50	71	3.0
42808	18	1150	660	3.6	15	122	1.0
42809	15	960	610	2.5	3	66	1.0
42810	26	1540	1920	3.0	3	53	1.0
42811	74	4400	4400	13.0	15	68	1.0
42812	7	600	510	4.8	3	98	1.0
42813	9	700	304	4.0	15	75	1.0
42814	16	540	820	3.8	30	143	1.0
42815	22	820	1900	3.0	15	77	1.0
42816	30	990	1620	3.3	20	87	1.0
42817	26	640	1050	3.0	25	160	1.0
42818	14	1470	560	2.8	15	95	1.0
42819	38	1650	1700	9.0	20	75	1.0
42820	56	4000	4600	3.7	20	56	1.0
42821	109	2000	6500	3.3	10	54	1.0
42822	102	850	4500	2.8	15	54	1.0
42823	19	890	710	3.0	10	103	1.0
42824	31	335	1520	2.1	3	100	1.0
42825	30	1520	2100	4.2	10	110	1.0
42851	36	810	1250	2.8	3	81	1.0
42852	41	830	1420	3.6	3	74	1.0

SPRING PROJECT  
1989 GEOCHEM RESULTS

Samp	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppb)	Au (ppb)	As (ppm)	Sb (ppm)
42801	25	1660	1540	2.3	3	44	1.0
42802	21	1050	1240	2.2	3	15	1.0
42836	40	85	216	2.9	40	215	1.0
42837	46	47	173	7	3	11	1.0
42838	40	47	180	3.0	40	360	1.0
42839	46	225	720	1.5	15	62	1.0
42840	69	680	930	1.4	3	16	1.0
42841	24	340	870	7.0	135	680	1.0
42842	29	100	301	1.0	10	53	1.0
42843	54	295	570	5.2	135	580	1.0
42844	24	206	394	3	25	12	1.0
42845	40	840	1130	5.0	110	330	1.0
42846	90	1330	1500	4.0	60	280	1.0
42847	29	211	1440	1.7	10	120	1.0
42848	22	138	325	5	10	26	1.0
42849	10	86	382	6	1	24	1.0
42850	20	1280	580	2.0	150	720	2.0
42853	57	1960	1900	5.0	75	540	1.0
42854	50	3100	2000	14.0	125	870	1.0
42855	49	4200	1700	9.0	30	310	1.0
42856	44	3800	1890	8.0	60	390	1.0

**LEGEND**

- [42832] CHIP SAMPLING INTERVAL
- △ L 0+90E / 10+50N SAMPLING CONTROL STATION
- ▲▲ GROUND SURFACE
- GEOLGICAL CONTACT (KNOWN, INFERRED)
- ~ FAULT GOUGE
- - - OUTCROP BOUNDARY
- [+ + +] ALTERED & WEATHERED TECTONIC BRECCIA (PYRITE, CHALCOPYRITE)
- [v v v] ALTERED HYPABYSSAL ANDESITE DYKE (PYRITE, GALENA)

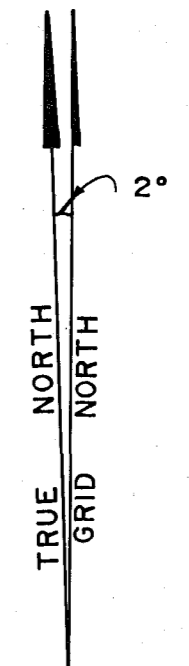
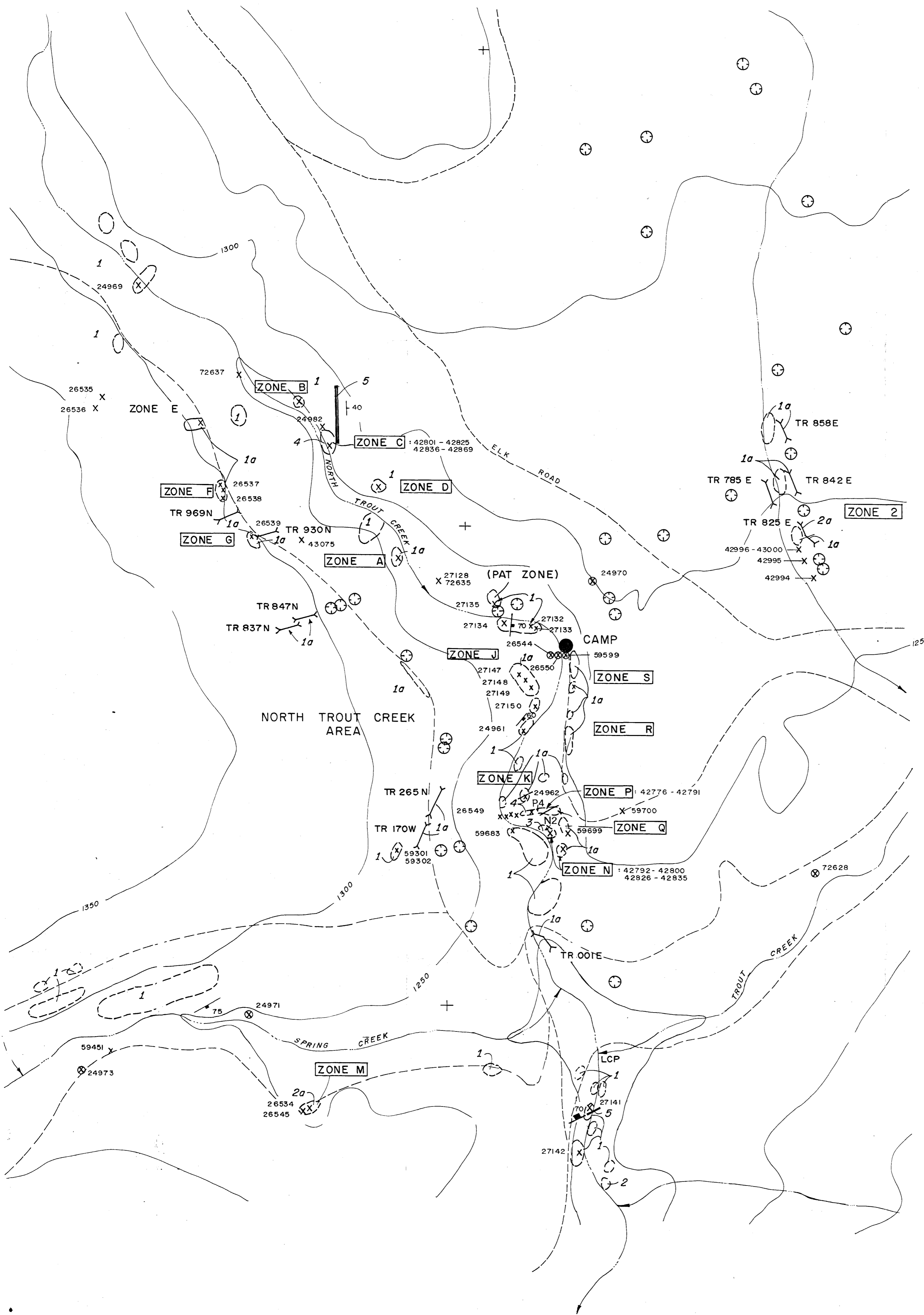
NORTH TROUT CREEK TRAIL  
**GEOLOGICAL BRANCH**  
ASSESSMENT REPORT

0.5 0 1m 2m  
BAR SCALE 1:50

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PLACER DOME INC.  
SPRING PROJECT '89  
V-232  
Sampling Zone C  
FIGURE NO. 7



**LEGEND**

- ROADS, TRAILS
- LAKE, POND
- CREEK, STREAM
- SWAMP, MARSH
- CONTOUR ELEVATIONS IN METRES  
CONTOURS AT 50M INTERVALS
- CLAIM BOUNDARY
- LCP PICK 3  
LOCATED CORNER POST
- 59560  
ROCK SAMPLE NUMBER & LOCATION
- 59687  
FLOAT SAMPLE NUMBER & LOCATION
- ZONE H  
'88 SAMPLING ZONE LOCATION
- TR 842 E  
'89 TRENCH LOCATION
- 7  
OUTCROP LOCATION
- TEST PIT LOCATION
- 60  
STRIKE AND DIP OF JOINTS
- 40  
STRIKE AND DIP OF BEDS
- 20  
STRIKE AND DIP OF FOLIATION
- 40  
STRIKE AND DIP OF SHEAR
- DYKE

**LITHOLOGY**

**TERTIARY**

- PPFQ 1 - PORPHYRITIC QUARTZ - FELDSPAR MONZONITE.
- 1a - PPFQ WITH ARGILLIC ALTERATION (OTHER INTRUSIONS).
- QZDR 2 - BIOTITE - HORNBLende QUARTZ - DIORITE.
- 2a - QZDR WITH ARGILLIC ALTERATION.
- 2c - QZDR CONTAINING GRANITE AND/OR GNEISS XENOLITHS.
- PRHD 3 - SHEARED PORPHYRITIC RHYODACITE WITH QUARTZ STOCKWORK.
- BREC 4 - HIGHLY WEATHERED TECTONIC BRECCIA.
- HAND 5 - ALTERED HYPABYSSAL ANDESITE DYKES.

**JURASSIC OR LATER**

- GRAN 6 - GRANITE PEGMATITE WITH MINOR BIOTITE (COAST INTRUSIONS).

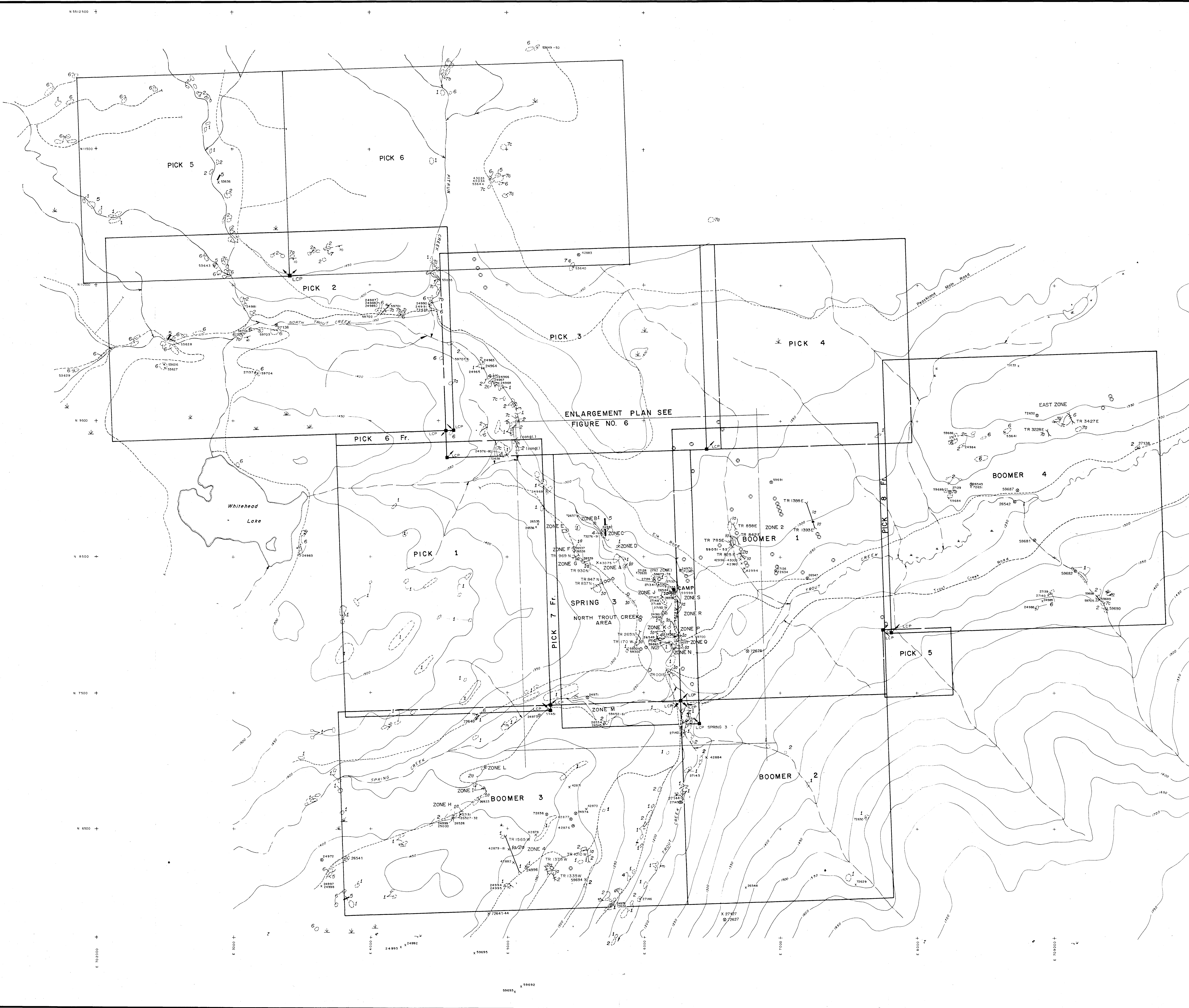
**PALEOZOIC**

- QBGN 7a - PLAGIOCLASE - QUARTZ - BIOTITE GNEISS.
- 7b - WEAKLY FOLIATED PLAGIOCLASE - QUARTZ - HORNBLende GNEISS.
- 7c - PLAGIOCLASE - QUARTZ - HORNBLende BIOTITE GNEISS.

19,420 *part 2*  
Figure 6. *of 2*

PLACER DOME INC.  
**SPRING PROJECT '89**  
 British Columbia  
 V 232  
**NORTH TROUT CREEK AREA  
 SAMPLE, TRENCH AND  
 OUTCROP LOCATION**

TECHNICAL WORK BY: M.P.	SCALE: 1" = 5000'
DRAWN BY: DBM TECHNICAL SERVICES	DATE: NOV., 1989
REVISION:	FIG. NO.:



**LEGEND**

- ROADS, TRAILS
- LAKE, POND
- CREEK, STREAM
- SWAMP, MARSH
- CONTOUR ELEVATIONS IN METRES  
CONTOURS AT 50 M INTERVALS
- CLAIM BOUNDARY
- LOCATED CORNER POST
- ROCK SAMPLE NUMBER & LOCATION
- FLOAT SAMPLE NUMBER & LOCATION
- '88 SAMPLING ZONE LOCATION
- '89 TRENCH LOCATION
- OUTCROP LOCATION
- TEST PIT LOCATION
- STRIKE AND DIP OF JOINTS
- STRIKE AND DIP OF BEDS
- STRIKE AND DIP OF FOLIATION
- STRIKE AND DIP OF SHEAR
- DYKE

**LITHOLOGY**

- TERTIARY**
- 1 - PORPHYRITIC QUARTZ - FELDSPAR MONZONITE
  - 1a - PPFQ WITH ARGILLIC ALTERATION (OTTER INTRUSIONS)
  - 2 - BIOTITE - HORNBLENDE QUARTZ - DIORITE
  - 2a - QZDR WITH ARGILLIC ALTERATION
  - 2c - QZDR CONTAINING GRANITE AND/OR GNEISS KENOLITHS
  - 3 - SHEARED PORPHYRITIC RHYODACITE WITH QUARTZ STOCKWORK
  - 4 - HIGHLY WEATHERED TECTONIC BRECCIA
  - 5 - ALTERED HYPABYSSAL ANDESITE DYKES
- JURASSIC OR LATER**
- 6 - GRANITE PEGMATITE WITH MINOR BIOTITE (COAST INTRUSIONS)
- PALEOZOIC**
- 7a - PLAGIOCLASE - QUARTZ - BIOTITE GNEISS
  - 7b - WEAKLY FOLIATED PLAGIOCLASE - QUARTZ - HORNBLENDE GNEISS
  - 7c - PLAGIOCLASE - QUARTZ - HORNBLENDE (BIOTITE) GNEISS

GEOLOGICAL BRANCH ASSESSMENT REPORT Part 2

19,420 #2

Figure 5.

PLACER DOME INC.  
 SPRING PROJECT '89  
 British Columbia  
 V 232  
 SAMPLE, TRENCH AND  
 OUTCROP LOCATION

TECHNICAL WORK BY:	M.D.	SCALE:	1:10,000
DRAWN BY:	DBM TECHNICAL SERVICES	DATE:	NOV. 1989
REVISION:		FIG. NO.:	