

# Tasmanian Mineral Exploration Company Report

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Title: Tube number 40: Lake Lea 1986 EL 41/83)  
Company: PlacerDome

Plans from archive store in Zeehan

Compiled by David Green 4 June 2003.

# 03\_4910

Tube Number 40: Lake Lea 1986 -EL 41/1983

Placer Dome Asia Pacific\*

Green, D.

EL41/1983

AREA. 1:50000 SHEET	EL NR.	SCALE	TUBE 28 40 REMARKS	DATE
LAKE LEA		1:5000	TUNGSTEN GEOCHEM SHEET LEA 4-4	SEP 86
LAKE LEA		1:5000	SAMPLE LOCATIONS LEA 4-4	JULY 86
LAKE LEA		1:5000	BISMUTH GEOCHEM LEA 4-4	JULY 86
LAKE LEA		1:5000	GOLD GEOCHEM LEA 4-4	AUG 86
LAKE LEA		1:5000	FACTUAL AND INTERPRETIVE GEOLOGY LEA 4-5	DEC 86
LAKE LEA		1:5000	COPPER GEOCHEM LEA 4-5	JULY 86
LAKE LEA		1:5000	TUNGSTEN GEOCHEM LEA 4-5	SEP 86
LAKE LEA		1:5000	ZINC GEOCHEM LEA 4-5	JULY 86
LAKE LEA		1:5000	LEAD GEOCHEM LEA 4-5	JULY 86
LAKE LEA		1:5000	SAMPLE LOCATIONS LEA 4-5	JULY 86
LAKE LEA		1:5000	GOLD GEOCHEM LEA 4-5	AUG 86
LAKE LEA		1:5000	BISMUTH GEOCHEM LEA 4-5	SEP 86
LAKE LEA		1:5000	ARSENIC GEOCHEM LEA 4-5	SEP 86
LAKE LEA	41/83	1:5000	CONTOUR ACCESS AND GRID LOCATION LEA 5-3	
LAKE LEA		1:5000	GEOLOGY LEA 5-3	
LAKE LEA		1:5000	TIN GEOCHEM LEA 5-3	
LAKE LEA	41/83	1:5000	CONTOUR ACCESS AND GRID LOCATION LEA 5-4	
LAKE LEA		1:5000	ZINC GEOCHEM LEA 5-4	AUG 86
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LAKE LEA		1:5000	GOLD GEOCHEM LEA 5-4	
LAKE LEA		1:5000	TIN GEOCHEM LEA 5-4	



LAKE LEA AREA  
18000 TUNGSTON  
GEOCHEMISTRY  
LEA 4-4

03\_4910

Tube Number 40: Lake Lea 1996-EL 41/1983  
Placer Dome Asia Pacific  
Green, D. EL41/1983

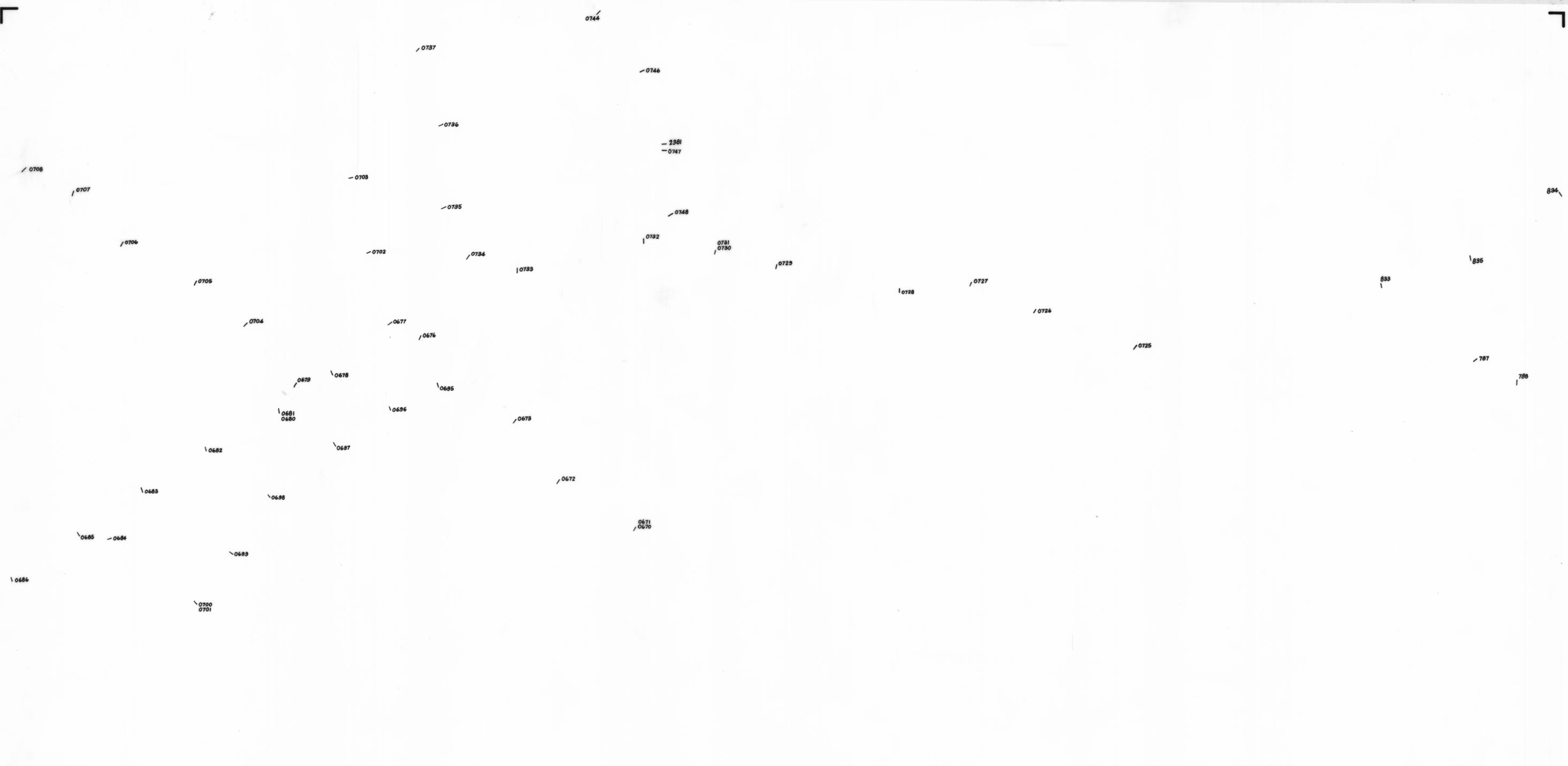
**TUNGSTEN GEOCHEMISTRY  
(PPM.)**

**KEY**  
x Rock Chip (Float) Sample  
⊗ Rock Chip (Outcrop) Sample  
⊗ Stream Sediment Sample  
⊗ Break-of-Slope Sample  
• Soil Sample  
**NB: ONLY ASSAYS ABOVE DETECTION  
LIMIT PLOTTED**

5 cm

R.R.  
S.F.  
SEP.86

LAKE LEA AREA  
15000 SAMPLE  
LOCATIONS  
LEA 4-4



**KEY**

- x Rock Chip (Float) Sample
- ⊗ Rock Chip (Outcrop) Sample
- ⊠ Stream Sediment Sample
- △ Break-of-Slope Sample
- Soil Sample

5 cm

**03\_4910**

Tube Number 40: Lake Lea 1986 - EL 41/1983  
Placer Dome Asia Pacific  
Green, D. EL41/1983

**SAMPLE LOCATIONS**

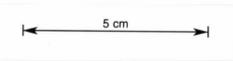
R.R.  
S.F.  
JULY 86

LAKE LEA AREA  
15000 BISMUTH  
GEOCHEMISTRY  
LEA 4-4

03\_4910

Tube Number 40: Lake Lea 1986 -EL 41/1983  
Placer Dome Asia Pacific\*  
Green, D. EL41/1983

**BISMUTH GEOCHEMISTRY  
(P.P.M.)**



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JULY, 86

LAKE LEA AREA  
1-5000 GOLD GEOCHEMISTRY  
LEA 4-4

1-50  
08

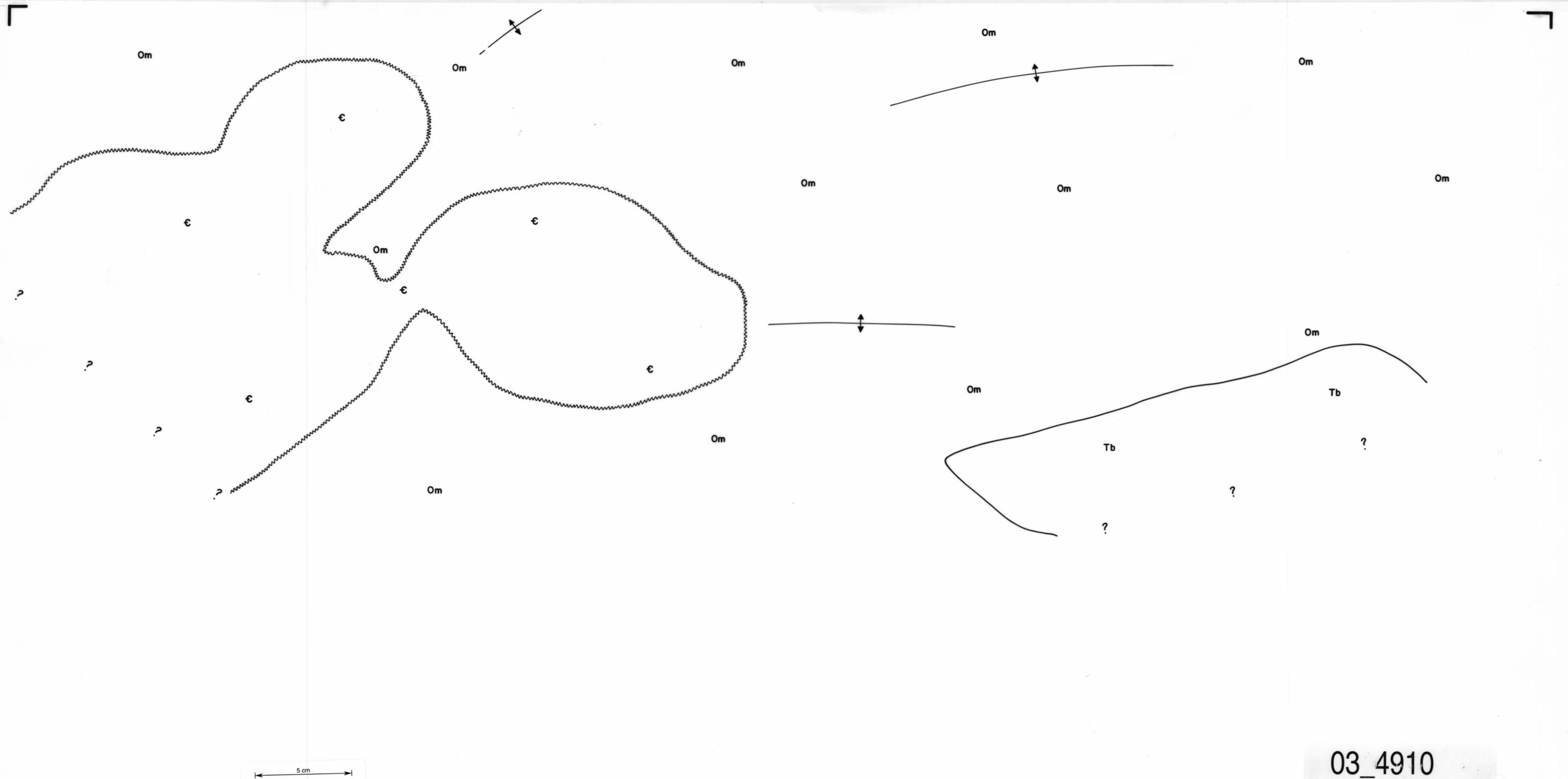
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Tube Number 40: Lake Lea 1986-EL 41/1983  
Placer Dome Asia Pacific\*  
Green, D. EL41/1983

**GOLD GEOCHEMISTRY  
(PPB.)**

5 cm

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**TERTIARY**  
 Tb Basalt & Basalt Scree  
 Tg Gravels & Greybilly

**ORDOVICIAN**  
 Oq Gordon Limestone  
 Ogh Skarn

**LEGEND**  
 Om Moina Sandstone: Predominantly sandstone with minor shale bands. Worm casts commonly occur within the sandstone (tubicular sandstone). Varies from sandstone to grey quartzite. Pyrite often occurs along microfractures and as disseminations within the sandstone.  
 Omh Hornfelsed sections of Moina Sandstone

**CAMBRIAN**  
 Oc Owen Conglomerate equivalents: Interbedded pink quartz-rich conglomerate, pink sandstone, banded maroon sandstone, pebbly conglomerate with hematitic fragments, hematite-rich sandstone. All units have a hematite component and are distinguished from the overlying Moina sandstone by their reddish colourations.  
 € Undifferentiated Cambrian volcanics

20 Strike & dip of bedding (vertical)  
 30 Strike & dip of jointing (vertical)  
 40 Strike & dip of foliation (vertical)  
 Anticline with plunge  
 Syncline with plunge

Unconformity  
 Geological Boundary  
 Geological Boundary (inferred)  
 Fault  
 Shearing  
 Quartz veins with strike & dip  
 Cut grid  
 Old Workings

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 Tube Number 40: Lake Lea 1986 - EL 41/1983  
 Placer Dome Asia Pacific\*  
 Green, D. EL41/1983

**FACTUAL  
 &  
 INTERPRETIVE GEOLOGY**

LAKE LEA AREA  
1:5,000 COPPER  
GEOCHEMISTRY  
LEA 4-5



**KEY**  
x Rock Chip (Float) Sample  
o Rock Chip (Outcrop) Sample  
Stream Sediment Sample  
Break-of-Slope Sample  
• Soil Sample

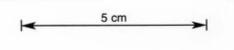
5 cm

**03\_4910**  
Tube Number 40: Lake Lea 1986 - EL 41/1983  
Placer Dome Asia Pacific  
Green, D. EL41/1983

**COPPER GEOCHEMISTRY  
(P.P.M.)**

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JULY, 86

LAKE LEA AREA  
1-B,000 TUNGSTIN  
GEOCHEMISTRY  
LEA 4-B



**03\_4910**  
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Placer Dome Asia Pacific  
Green, D. EL41/1983

**TUNGSTEN GEOCHEMISTRY  
(PPM.)**

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S.F.  
SEP, 86





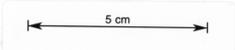


LAKE LEA AREA  
15000 GOLD  
GEOCHEMISTRY  
LEA 4-5

03\_4910

Tube Number 40: Lake Lea 1986 - EL 41/1983  
Placer Dome Asia Pacific\* EL41/1983  
Green, D.

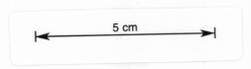
**GOLD GEOCHEMISTRY  
(PPB.)**



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LAKE LEA AREA  
1:5000 BISMUTH  
GEOCHEMISTRY  
LEA 4-5

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Green, D. EL41/1983  
**BISMUTH GEOCHEMISTRY**  
**(P.P.M.)**



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LAKE LEA AREA  
15000 ARSENIC  
GEOCHEMISTRY  
LEA 111

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Tube Number 40: Lake Lea 1986-EL 41/1983  
Placer Dome Asia Pacific\* EL41/1983  
Green, D.

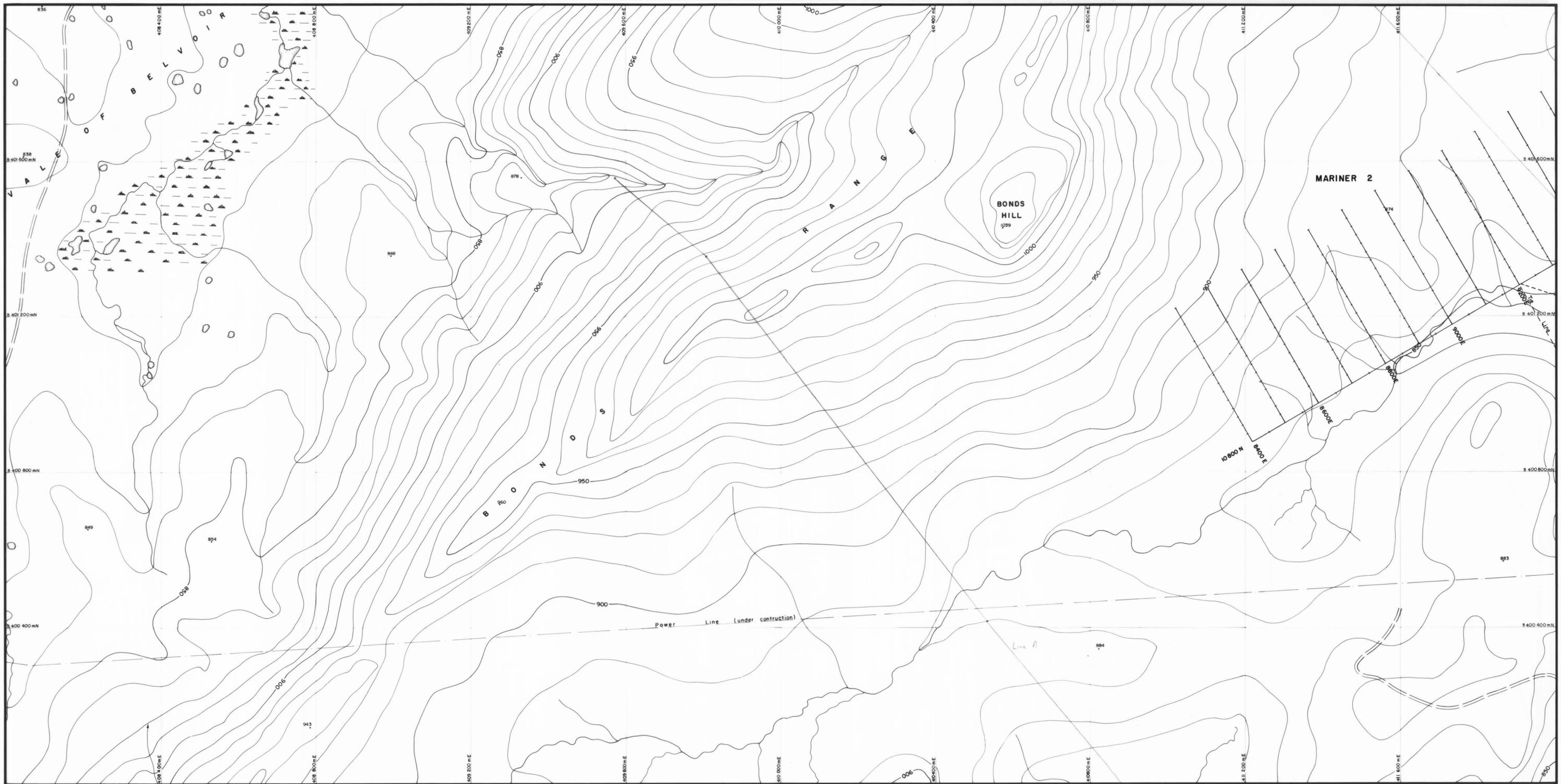
**ARSENIC GEOCHEMISTRY  
(PPM.)**

5 cm

**KEY**  
x Rock Chip (Float) Sample  
\* Rock Chip (Outcrop) Sample  
+ Stream Sediment Sample  
- Break-of-Slope Sample  
• Soil Sample  
**NB: ONLY ASSAYS GREATER THAN  
10 PPM. PLOTTED**

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LAKE LEA AREA  
 1:5000 CONTOUR ACCESS  
 AND GRID LOCATION  
 LEA 5-3



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Tube Number 40: Lake Lea 1986 -EL 41/1983  
 Placer Dome Asia Pacific\*  
 Green, D. EL41/1983

INDEX TO ADJOINING MAPS		
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5-2	LEA 5-3	5-4
1-2	PENCIL PINE 1-3	1-4

GOLD FIELDS EXPLORATION PTY LIMITED

**E.L. 41/83 - LAKE LEA AREA**

DRAWN BY  
 DRAFTSMAN  
 DATE  
 REVISIONS

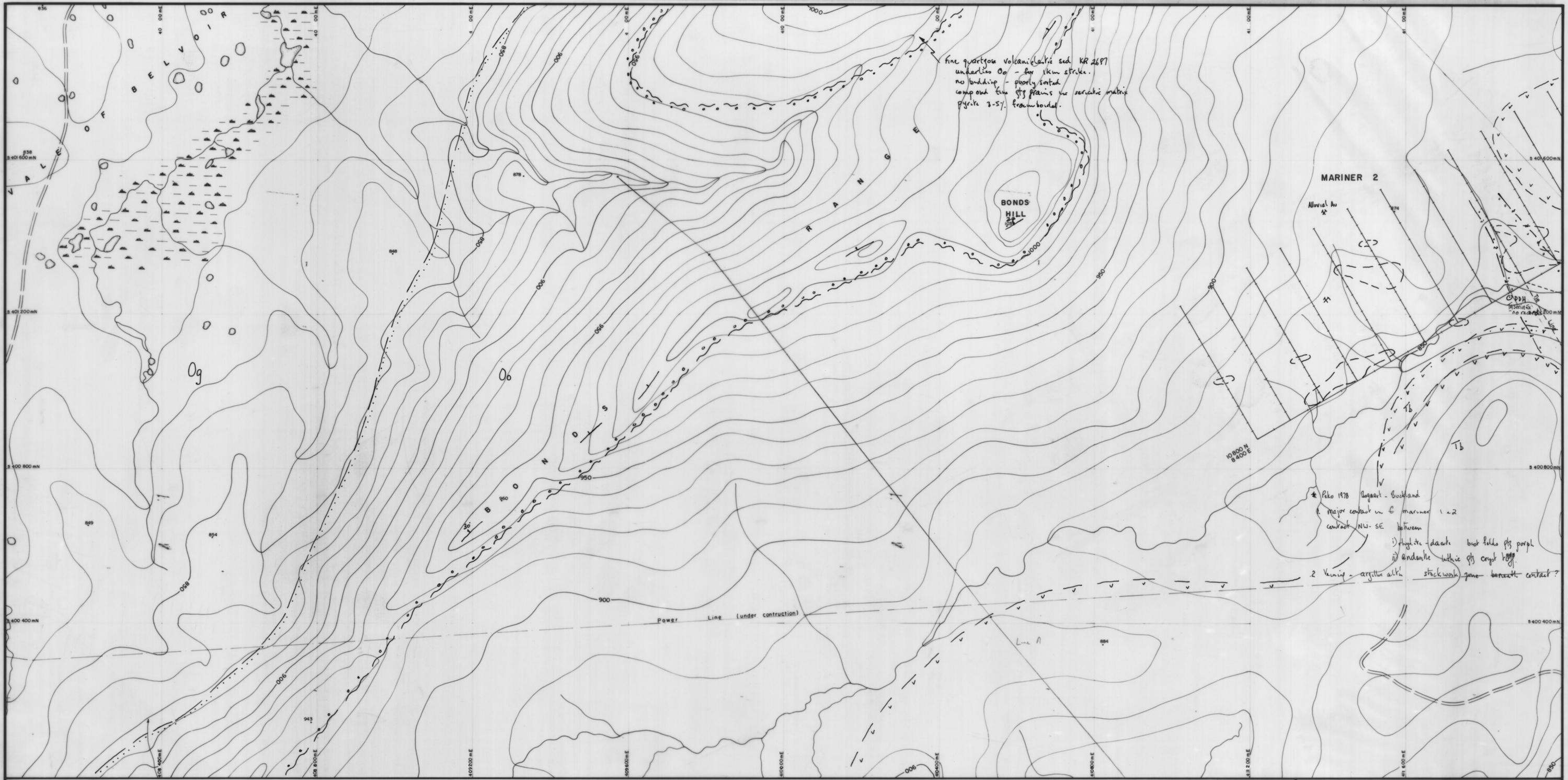
FILE NO.

SCALE 1:5000

5 cm

METRES

FIG.



03\_4910

Tube Number 40: Lake Lea 1986 -EL 41/1983  
Placer Dome Asia Pacific  
Green, D. EL41/1983

INDEX TO ADJOINING MAPS

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5-2	LEA 5-3	5-4
1-2	PENCIL PINE 1-3	1-4

GOLD FIELDS EXPLORATION PTY LIMITED

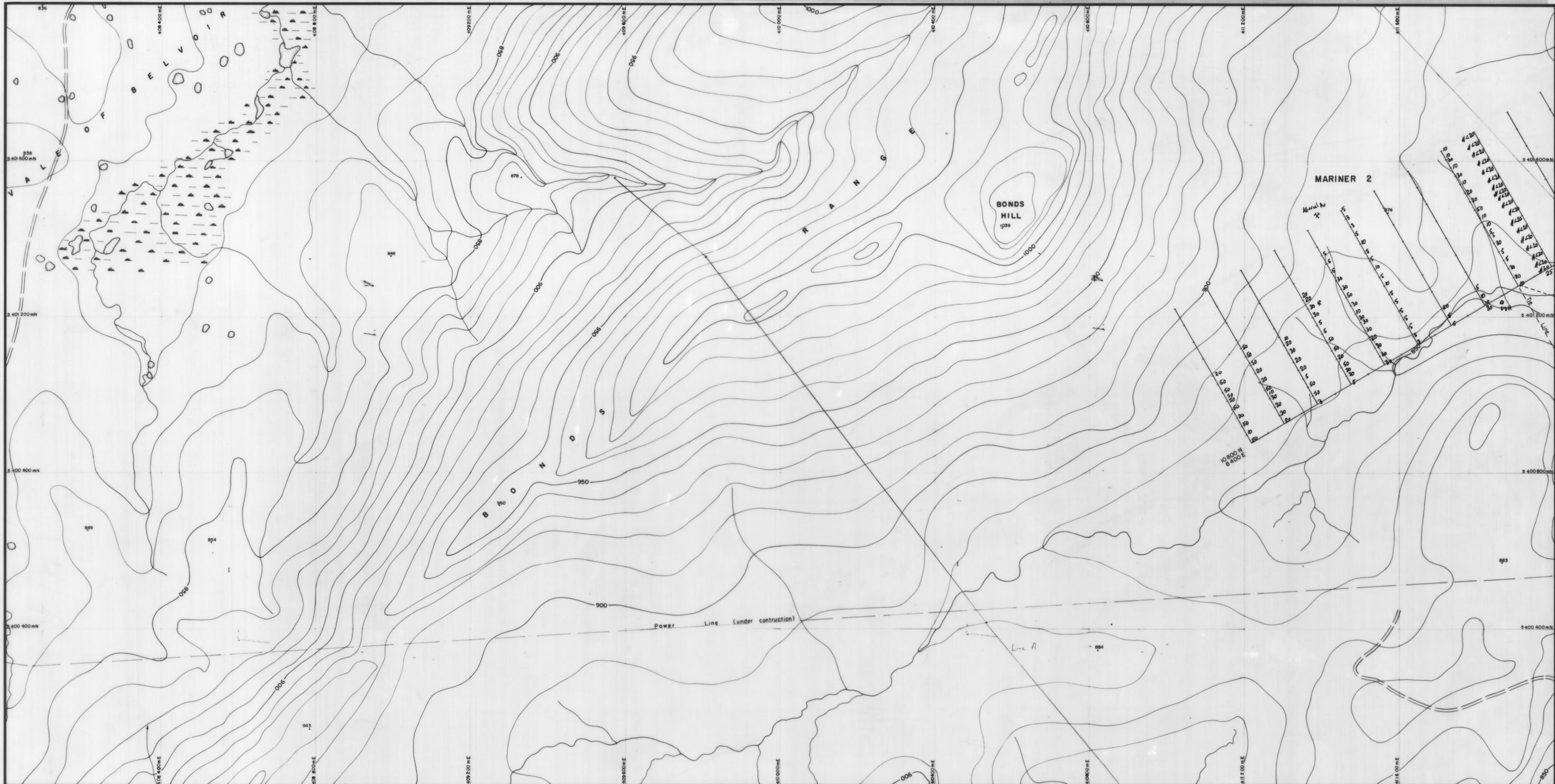
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DATE	
REVISIONS	
FILE NO.	
FIG.	

SCALE 1:5000

5 cm

100 50 0 100 200 METRES

LEA 5-3



Soil - Bedrock.  
#C20 XRF  
Emission Spect'

**03\_4910**  
Tube Number 40: Lake Lea 1986-EL 41/1983  
Placer Dome Asia Pacific  
Green, D. EL41/1983

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5-2	LEA 5-3	5-4
PENCIL PINE		
1-2	1-3	1-4

GOLD FIELDS EXPLORATION PTY. LIMITED

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FILE NO.	
FIG.	

SCALE 1:5000

100 50 0 50 100 200 METRES

5 cm

LAKE LEA AREA  
 1:5000 CONTOUR ACCESS  
 AND GRID LOCATION  
 LEA 5-4.



**03\_4910**  
 Tube Number 40: Lake Lea 1986-EL 41/1983  
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1-3	PENCIL 1-4	1-5

GOLD FIELDS EXPLORATION PTY LIMITED

**E.L. 41/83-LAKE LEA AREA**

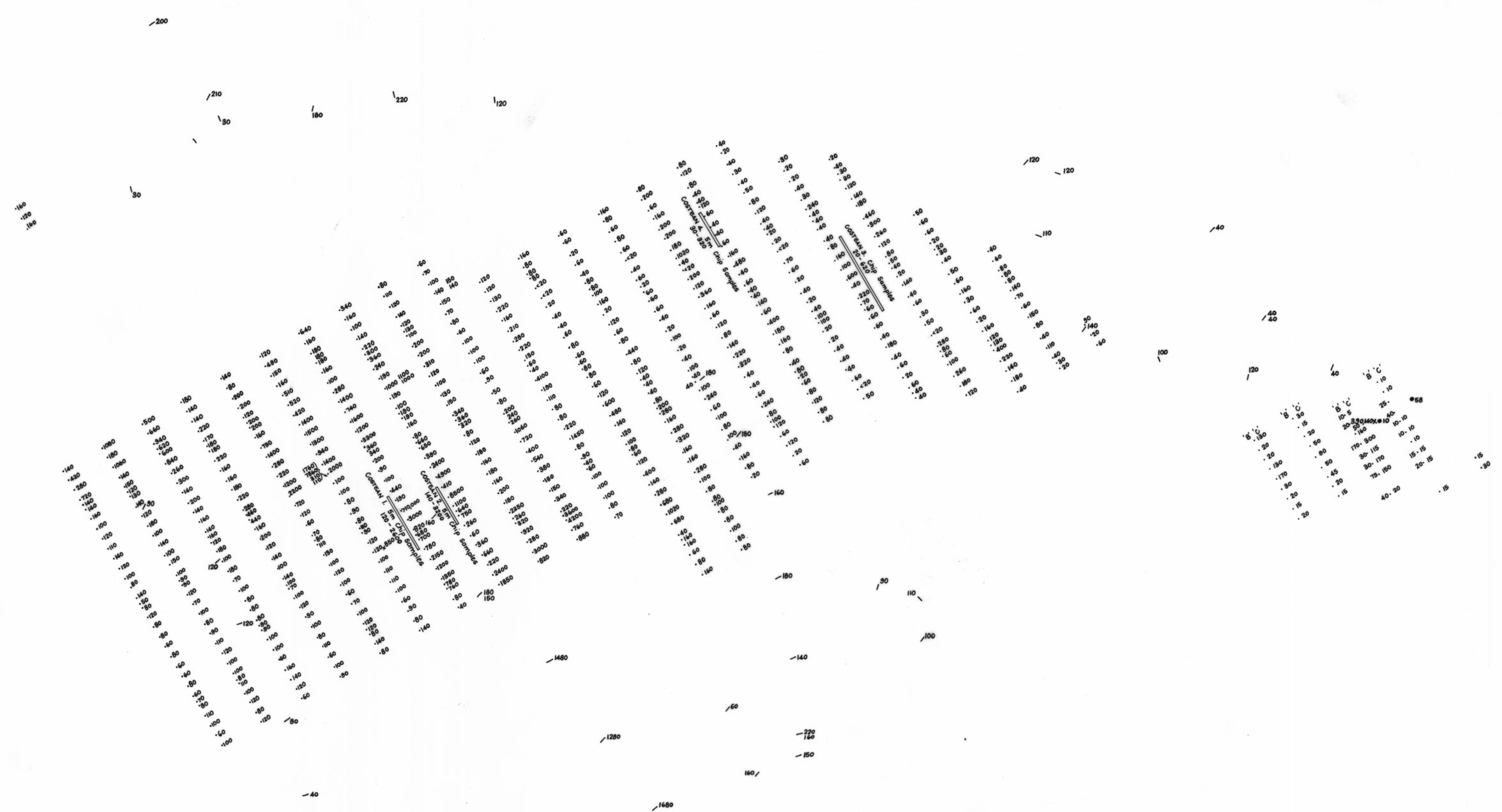
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DATE	
REVISIONS	
FILE NO.	
FIG.	

SCALE 1:5000

5 cm

100 50 0 100 200 METRES





03\_4910

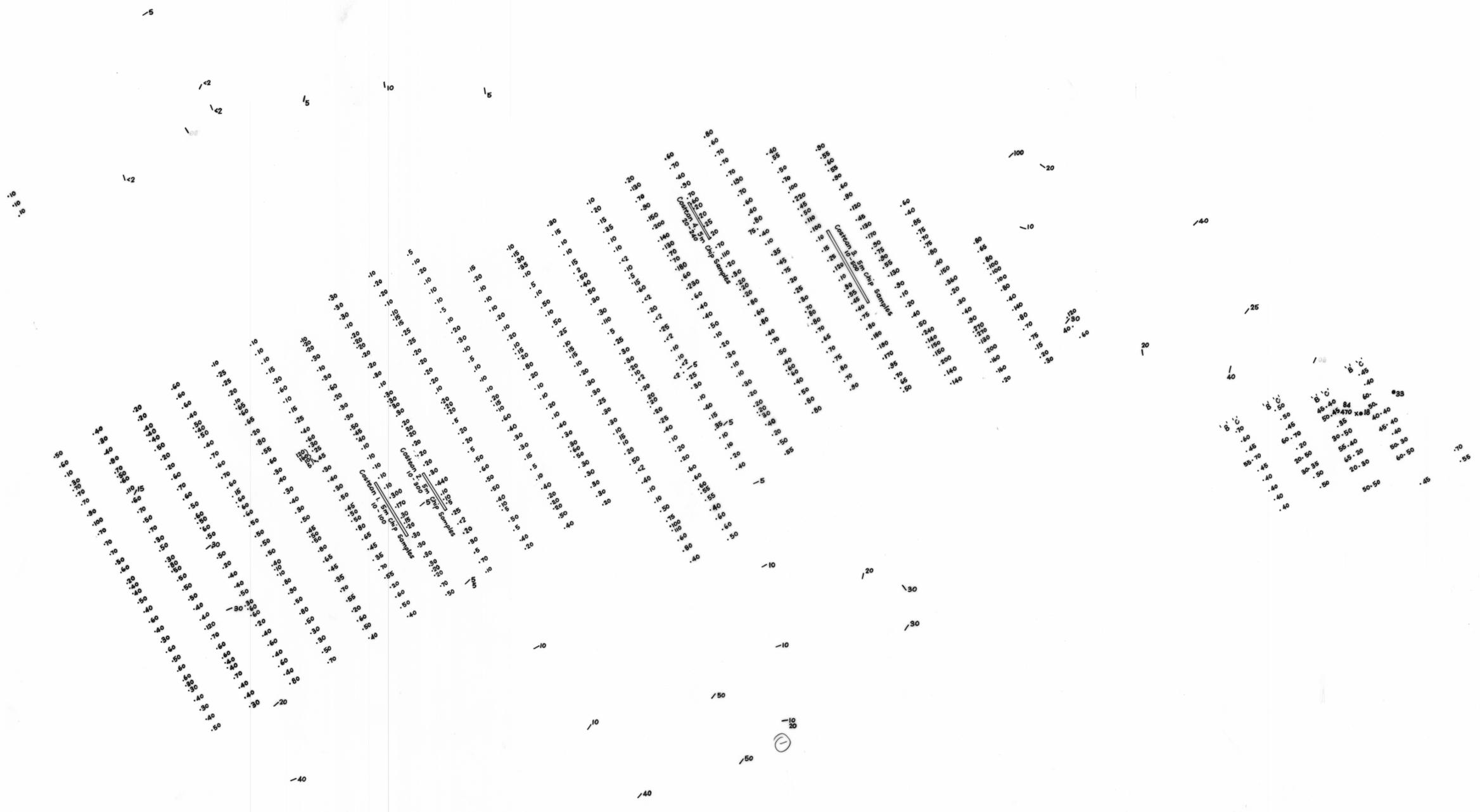
Tube Number 40: La'ea Lea 1986 -EL 41/1953  
Placer Dome Asia Pacific\*  
Green, D. EL41/1983

**LEAD GEOCHEMISTRY**



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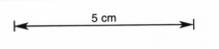
Lake Lea Area  
1:50,000 COPPER  
GEOCHEMISTRY  
LEA 5-4



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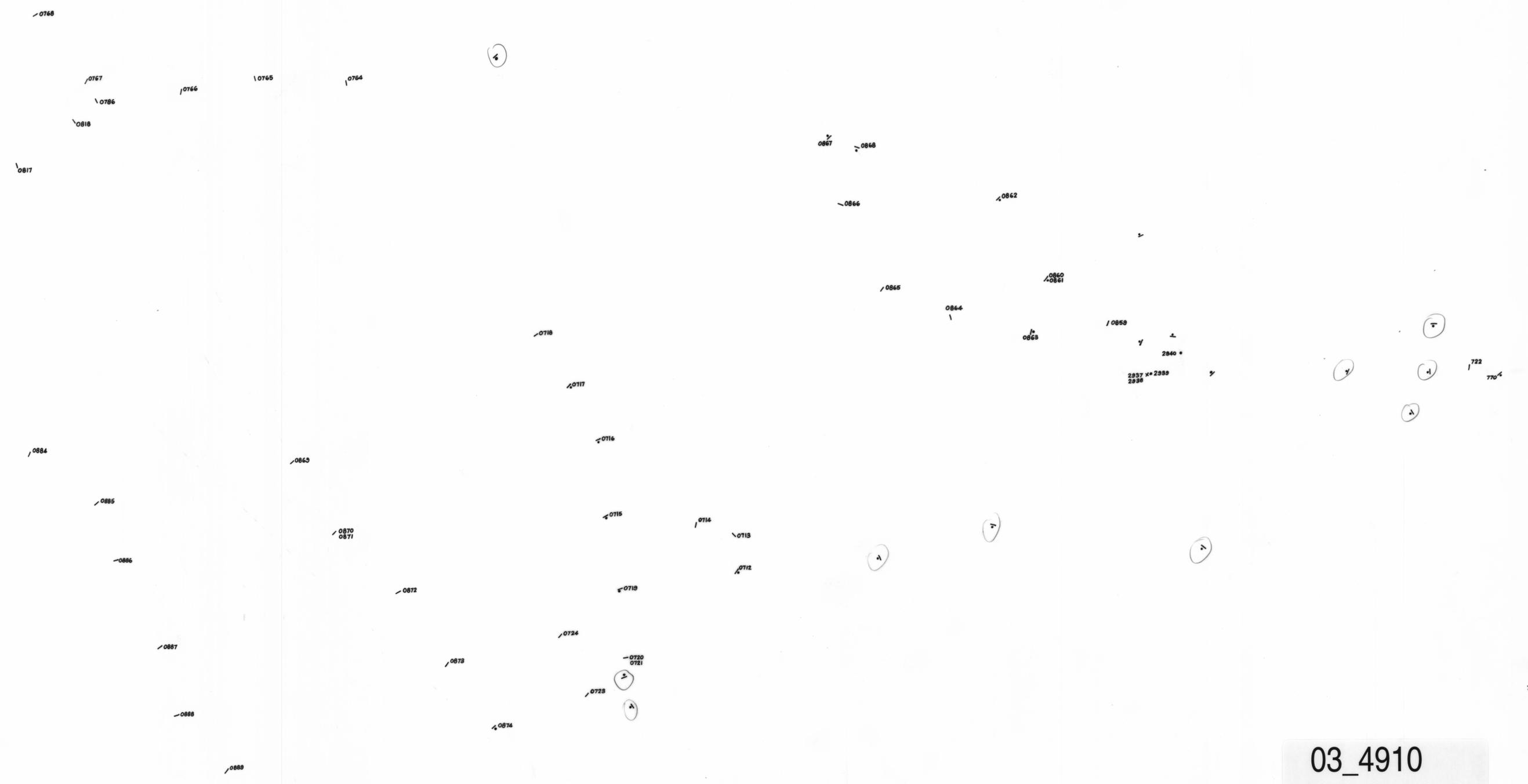
Tube Number 40: Lake Lea 1986 - EL 41/1983  
Placer Dome Asia Pacific  
Green, D. EL41/1983

**COPPER GEOCHEMISTRY**  
(PPM.)



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Tube Number 40: Lake Lea 1986 - EL 41/1983  
Placer Dome Asia Pacific\*  
Green, D. EL41/1983

**SAMPLE LOCATIONS**  
5 cm

769  
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LAKE LEA AREA  
15000 TUNGSTUN  
GEOCHEMISTRY  
LEA 5-4

420

10 4/10  
1 1/10

410

3-10

10  
1/20

10  
1/30

280/10  
60

\*2

6.6 x

\*480

70

4

450

4

7 10

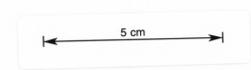
410

4

520  
10

410

4  
10



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Tube Number 40: Lake Lea 1986 -EL 41/1983  
Placer Dome Asia Pacific\*  
Green, D. EL41/1983

**TUNGSTEN GEOCHEMISTRY  
(PPM.)**

RR.  
S.F.  
AUG. 86

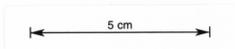
LAKE LEA AREA  
15000 ARS ENIC  
GEOCHEMISTRY  
LEA 5-4

55x

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Tube Number 40: Lake Lea 1986-EL 41/1983  
Placer Dome Asia Pacific  
Green, D. EL41/1983

**ARSENIC GEOCHEMISTRY  
(PPM.)**



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S.F.  
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LAKE LEA AREA  
LE000 BISMUTH  
GEOCHEMISTRY  
LEA 5-4

• 14  
700,0 x 13

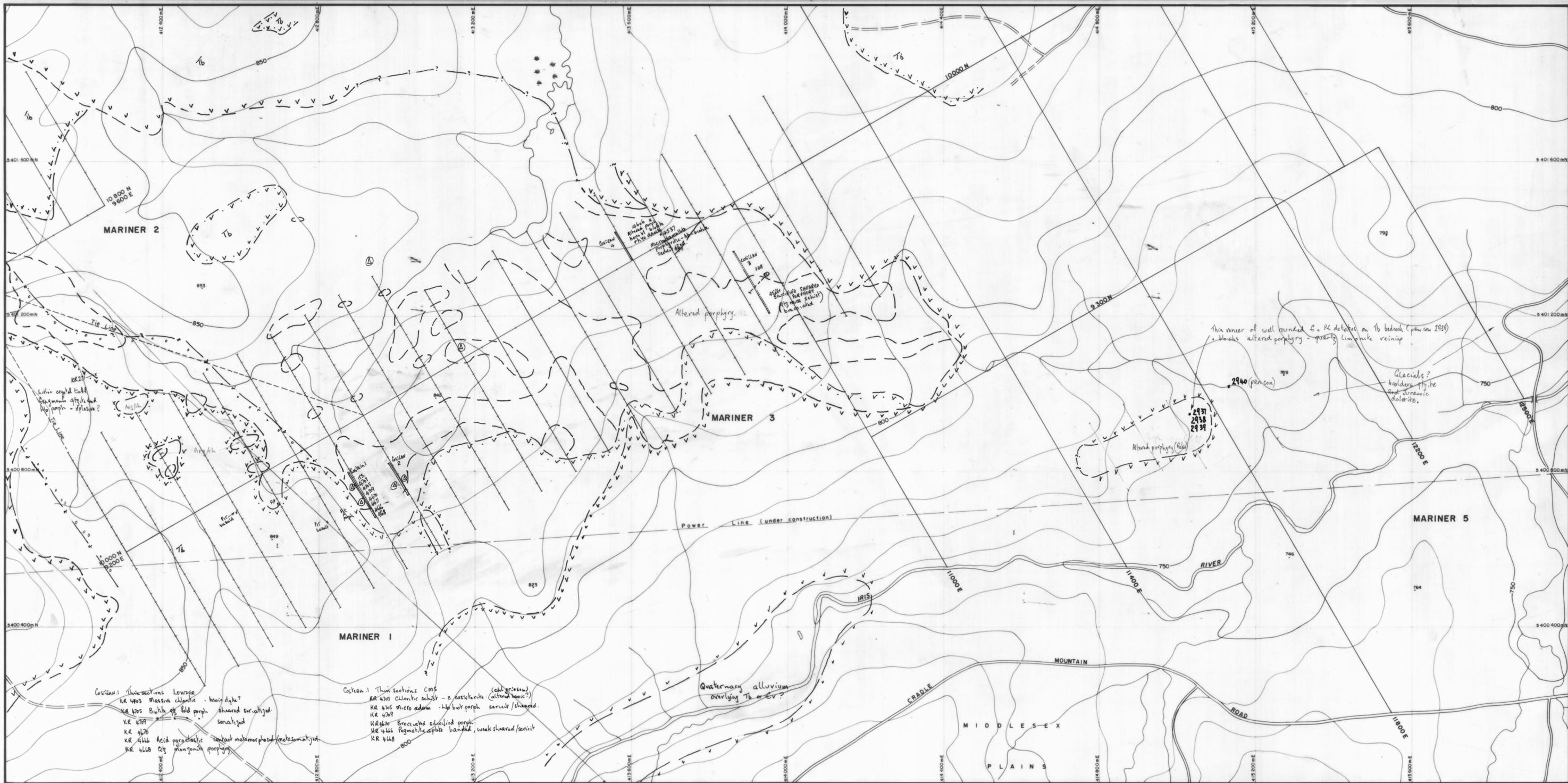
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Tube Number 40: Lake Lea 1986-EL 41/1983  
Placer Dome Asia Pacific\*  
Green, D. EL41/1983

**BISMUTH GEOCHEMISTRY  
(PPM.)**



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S.F.  
AUG. 86



Ⓐ Like 1978 Volcanic breccia  
distinctly visible from porph  
an intrusive or pyroclastic?  
  
↳ Lithic crystal tuff

Section 1 Thin sections Lower  
KR 4403 Massive chlorite - biotite dyke?  
KR 4405 Biotite of fold porph. sheared, sericitized  
KR 4407  
KR 4420  
KR 4444 Acid pyroclastic contact metamorphosed/metasomatized  
KR 4448 Qtz monzonite porphyry

Section 1 Thin sections CMS  
KR 4409 chlorite schist - e. porphyry (chlorite?)  
KR 4405 micro adam. - biotite porph. sericit/shaded.  
KR 4407  
KR 4440 Brecciated schistoid porph.  
KR 4446 fegnetic schist banded, weakly shaded/sericit  
KR 4448

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Prospect?  
6336 Mackintosh.  
(road metal pit in Tertiary basin)

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FIG	

SCALE 1:5000







LAKE LEA AREA  
1:5000  
LEAD  
GEOCHEMISTRY  
LEA 5-5

22

20

16

12

10

1

15

8

135

132

8

12

8

25

15

5

8

5

16

15

16

15

5

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Placer Dome Asia Pacific  
Green, D. EL41/1983

LEAD GEOCHEMISTRY  
(P.P.M.)

5 cm

R.R.  
S.F.  
SEP.86

LAKE LEA AREA  
1:5000 COPPER  
GEOCHEMISTRY  
LEA 5-5

12

32

12

20

20

22

25

28

15

18

8

42

45

25

18

42

32

18

20

8

12

12

8

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Tube Number 40: Lake Lea 1986-EL 41/1983  
Placer Dome Asia Pacific  
Green, D. EL41/1983

**COPPER GEOCHEMISTRY  
(PPM)**



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LAKE LEA AREA  
15000 ZINC  
GEOCHEMISTRY  
LBA 5-5



45

30

120

210

100

140

120

80

170

50

1160

140



160

120

150

110

150

110

100

170

100

120

80



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Tube Number 40: Lake Lea 1986-EL 41/1983  
Placer Dome Asia Pacific\*  
Green, D. EL41/1983

ZINC - GEOCHEMISTRY  
(PPM.)



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LAKE LEA AREA  
BE000 SAMPLE NUMBER  
LEA 5-5

781  
780

784

727

755

756

726

757

775

776

777

758

774  
773

760

759

761

763

762

764

768

766  
765

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Placer Dome Asia Pacific\*  
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SAMPLE NUMBERS



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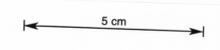
LAKE LEA AREA  
1:5000 GOLD  
GEOCHEMISTRY  
LEA 5-5

530

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Tube Number 40: Lake Lea 1986 - EL 41/1983  
Placer Dome Asia Pacific\* EL41/1983  
Green, D.

**GOLD GEOCHEMISTRY  
(P.P.B.)**



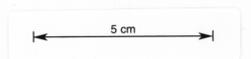
RR.  
S.F.  
SEP. 86

LAKE LEA AREA  
15,000 TUNGSTEN  
GEOCHEMISTRY  
LEA 5-5

03\_4910

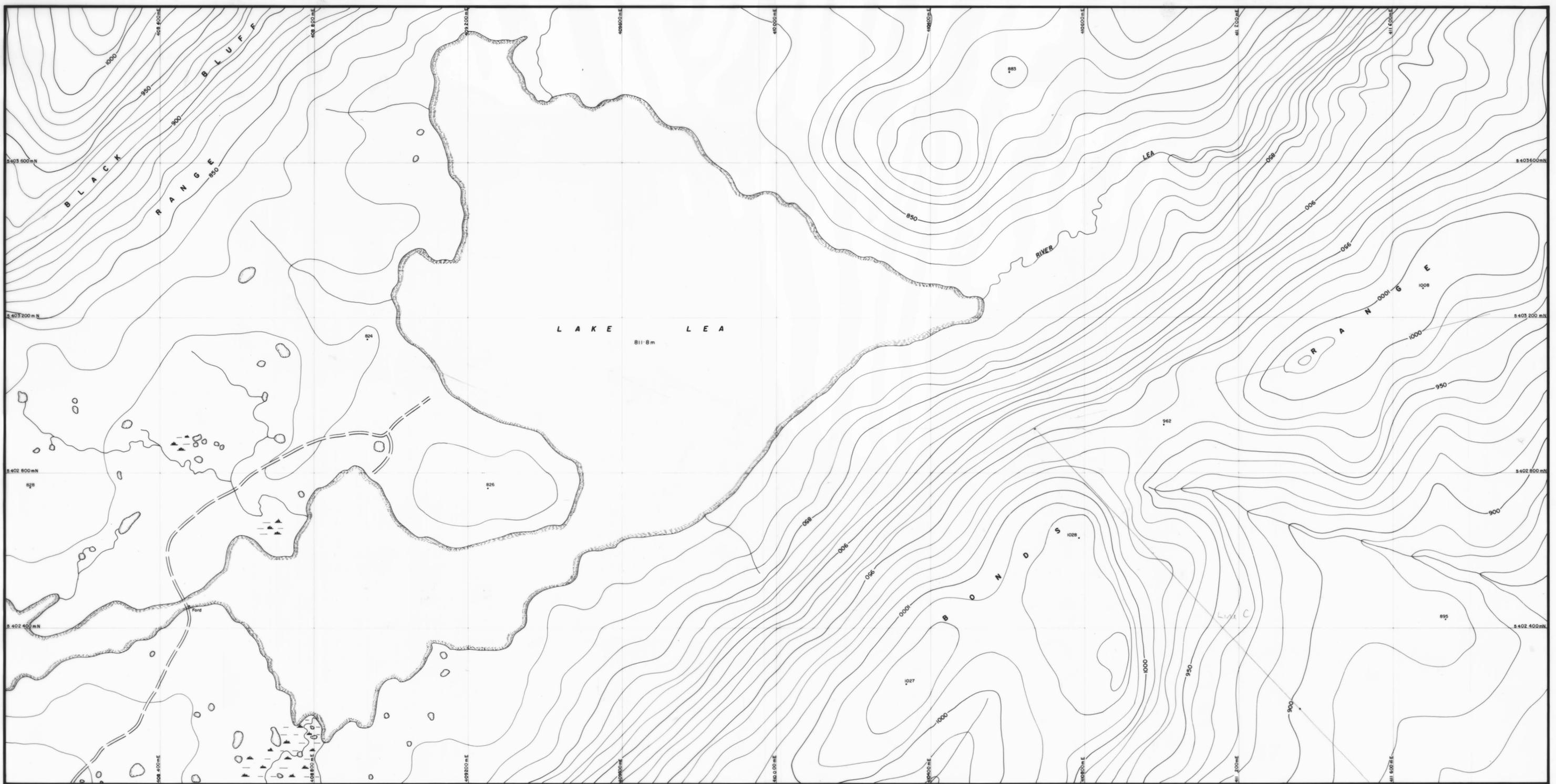
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Green, D. EL41/1983

**TUNGSTEN GEOCHEMISTRY  
(PPM.)**



RR  
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LAKE LEA AREA  
 1:5000  
 CONTOUR ACCESS  
 AND GRID  
 LOCATION  
 LEA 4-3



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Tube Number 40: Lake Lea 1986-EL 41/1983  
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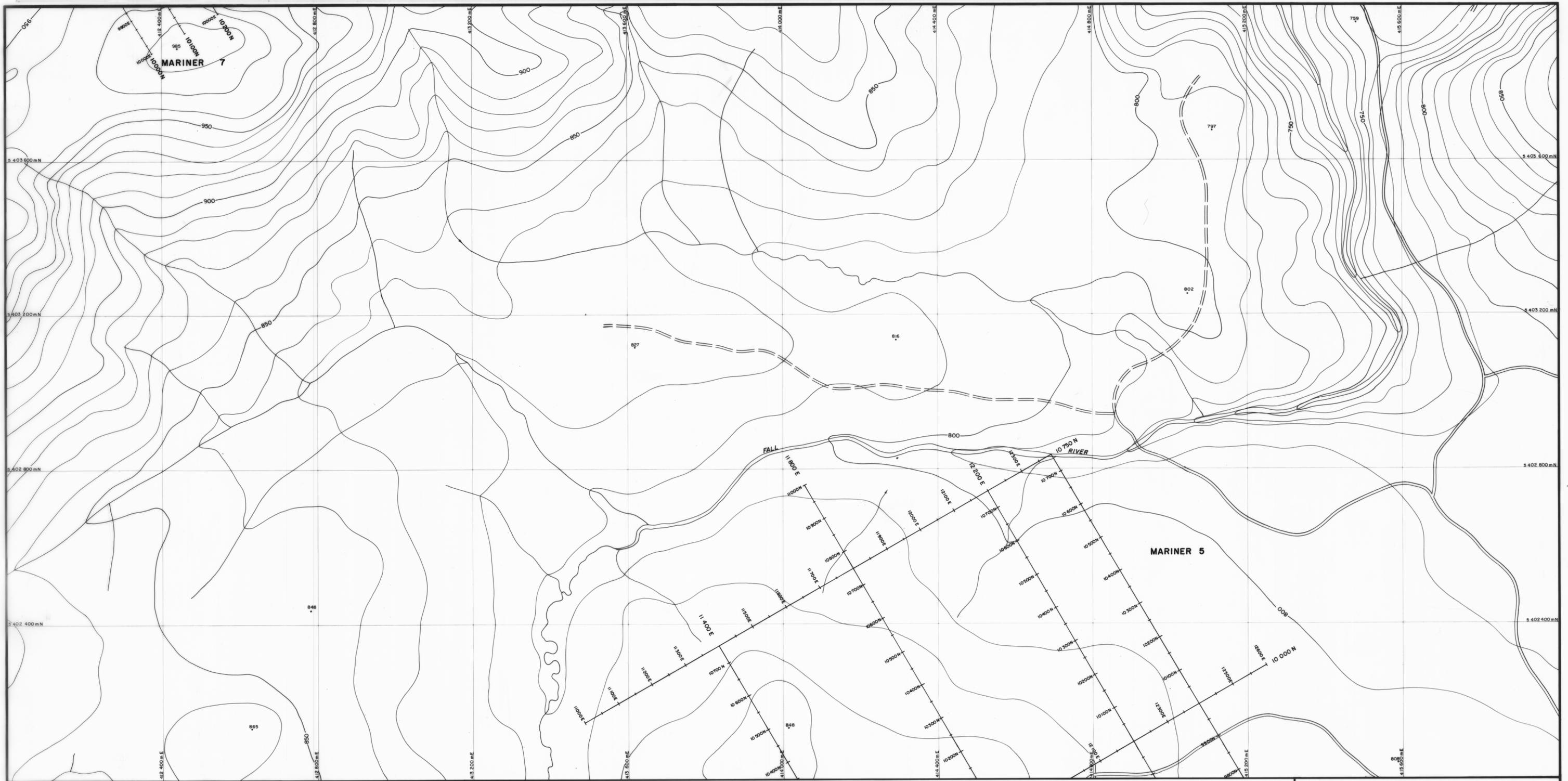
E.L.41/83 - LAKE LEA AREA



SCALE 1:5000  
 100 50 0 100 200  
 METRES

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FIG.	

LAKE LEA AREA  
 1:5000 CONTOUR ACCESS  
 AND GRID LOCATION  
 LEA 4-4



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GOLD FIELDS EXPLORATION PTY LIMITED

EL. 41/83 - LAKE LEA AREA



SCALE 1:5000

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DATE	
REVISIONS	
FILE NO.	
FIG.	

LAKE LEA AREA  
 1:5,000 FACTUAL  
 &  
 INTERP. GEOLOGY  
 LEA 4-4



TERTIARY		LEGEND		CAMBRIAN	
Tb	Basalt & Basalt Scree	Om	<b>Moina Sandstone:</b> Predominantly sandstone with minor shale bands. Worm casts commonly occur within the sandstone (tubicolur sandstone). Varies from sandstone to grey quartzite. Pyrite often occurs along microfractures and as disseminations within the sandstone.	Oc	<b>Owen Conglomerate equivalents:</b> Interbedded pink quartz-rich conglomerate, pink sandstone, banded maroon sandstone, pebbly conglomerate with hematitic fragments, hematite-rich sandstone. All units have a hematite component and are distinguished from the overlying Moina sandstone by their reddish colorations.
Tg	Gravels & Greybilly	Omh	Hornfelsed sections of Moina Sandstone	€	Undifferentiated Cambrian volcanics
Og	Gordon Limestone				
Ogs	Skarn				

	Strike & dip of bedding (vertical)		Unconformity
	Strike & dip of jointing (vertical)		Geological Boundary (inferred)
	Strike & dip of foliation (vertical)		Fault
	Anticline with plunge		Shearing
	Syncline with plunge		Quartz veins with strike & dip
			Cut grid
			Old Workings

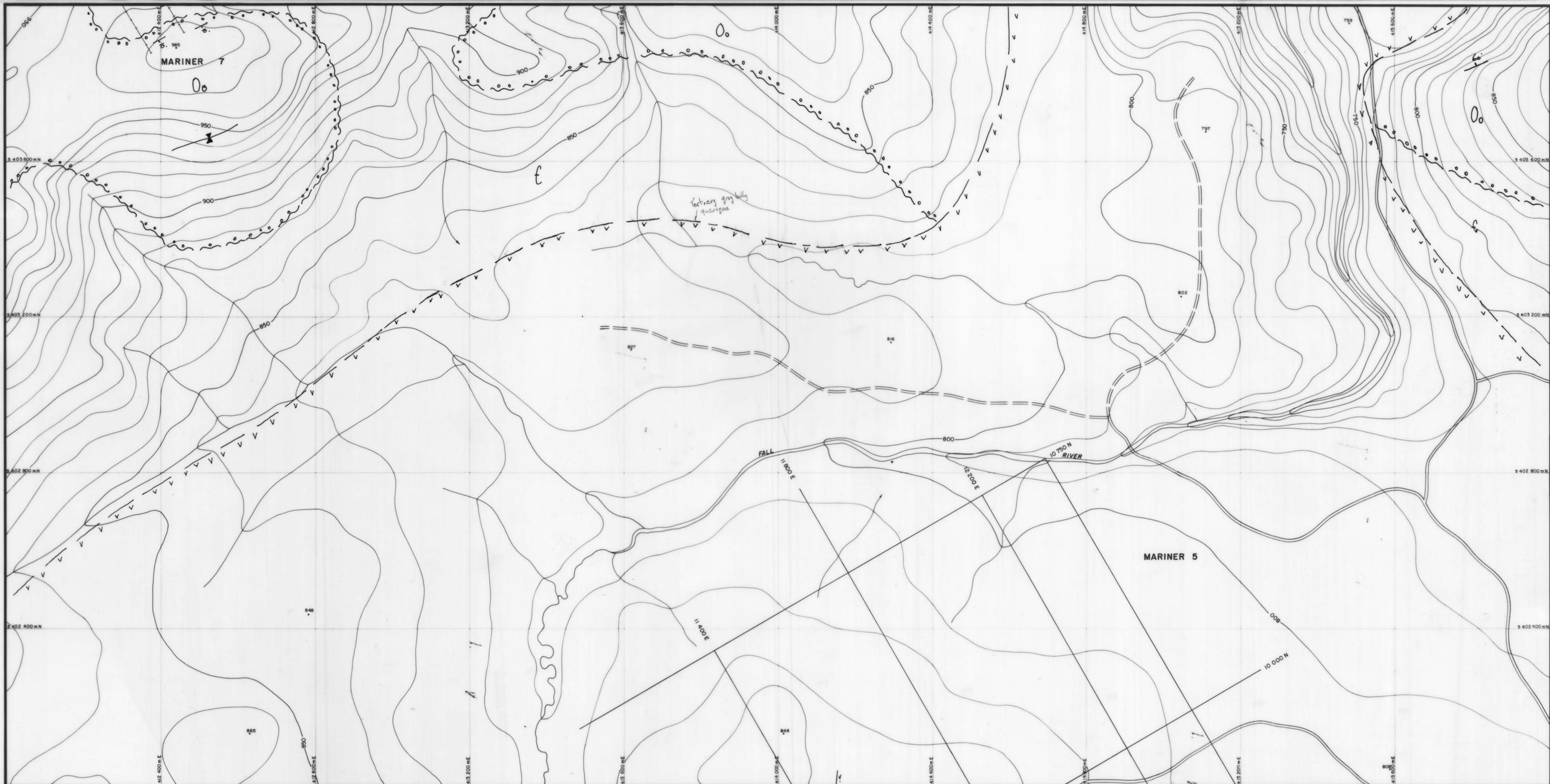
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Tube Number 40: Lake Lea 1986-EL 41/1983  
 Placer Dome Asia Pacific\*  
 Green, D. EL41/1983

**FACTUAL  
 &  
 INTERPRETIVE GEOLOGY**

5 cm

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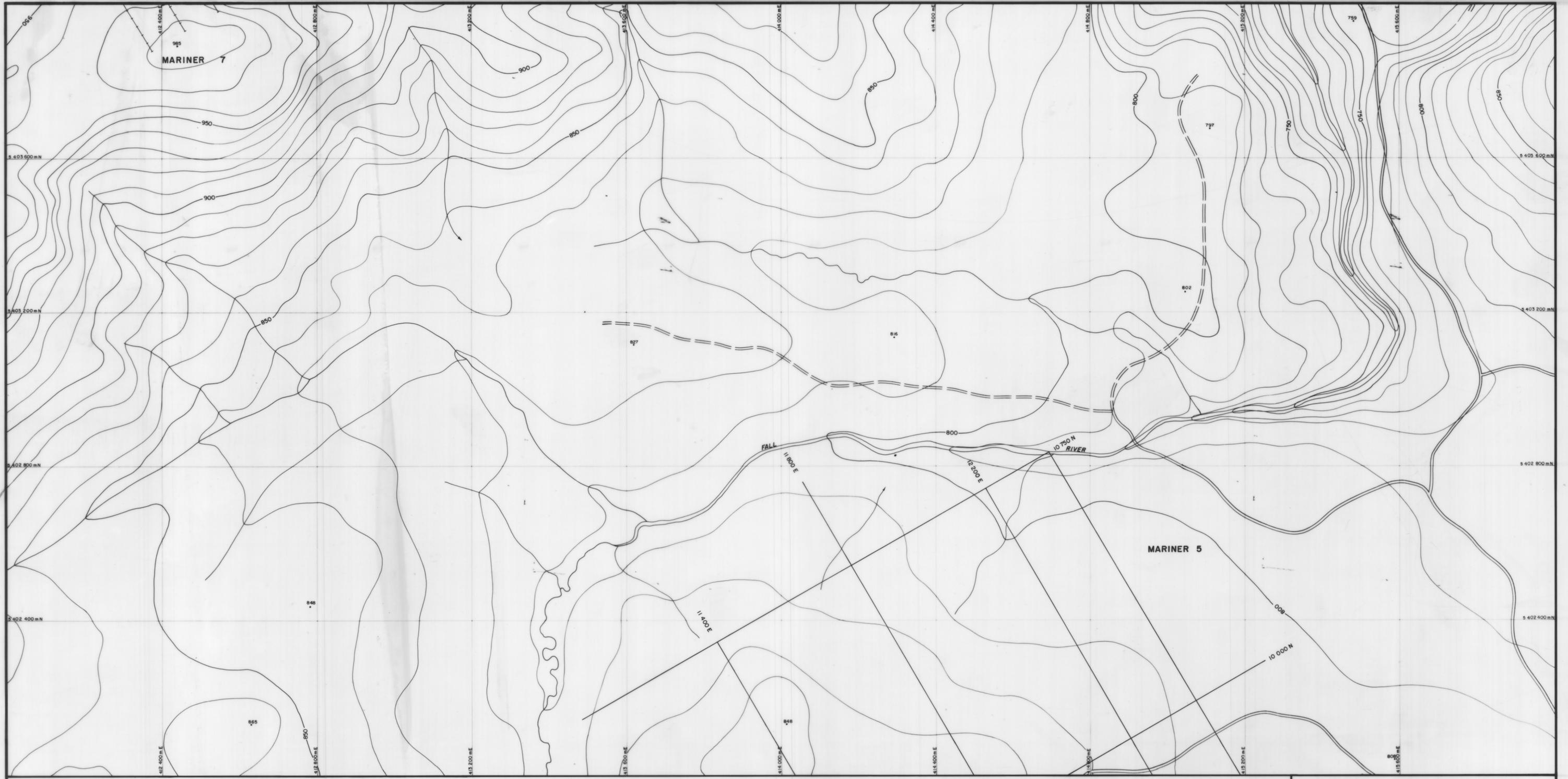
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FIG	

SCALE 1:5000

LAKE LEA AREA  
1:5000  
GEOCHEM  
TIN

LEA 4-4



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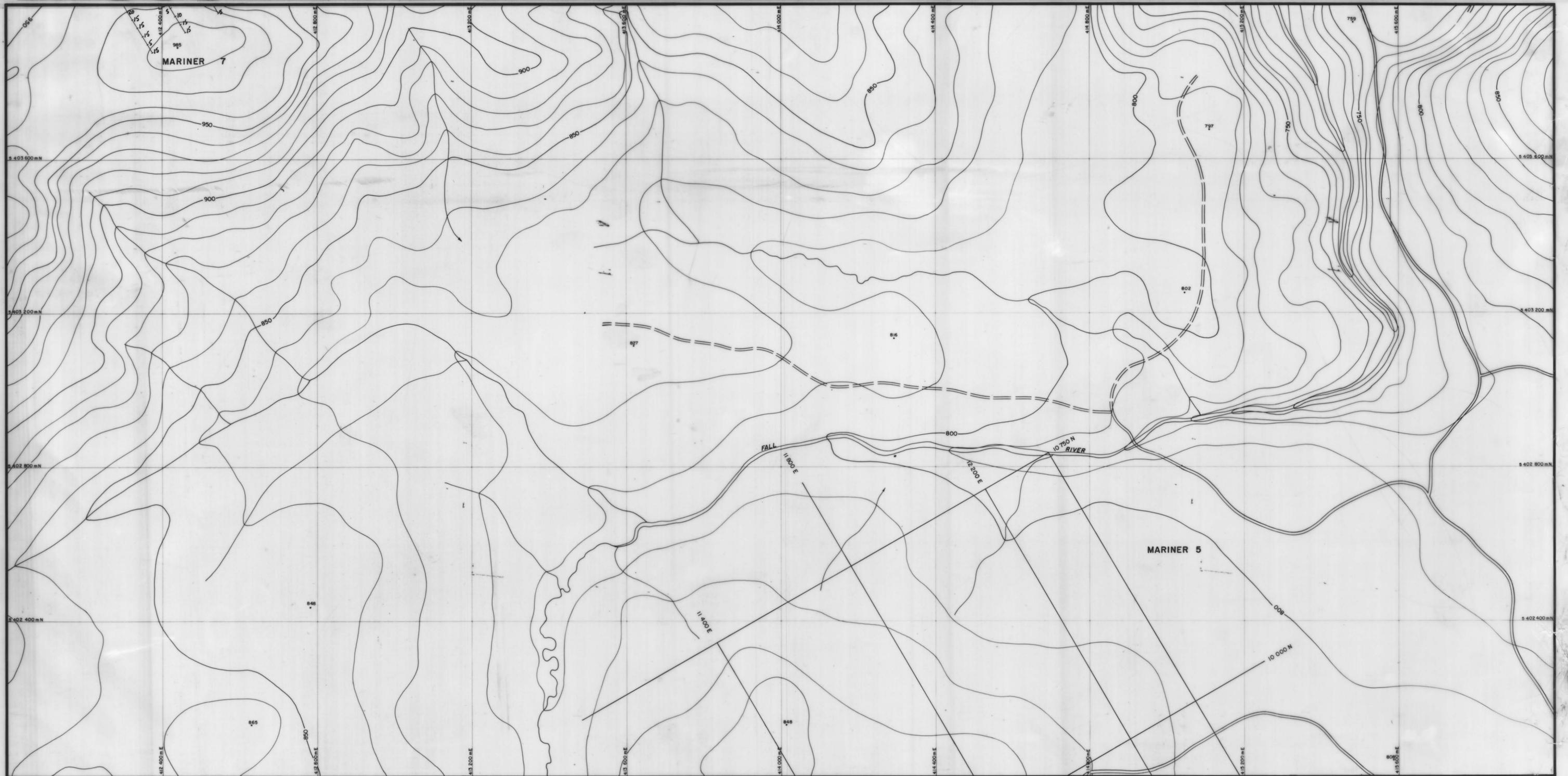
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FIG	

SCALE 1:5000

5 cm

Lake Lea Area  
 1:5000  
 GEOCHEM  
 Zn  
 LEA 4-4



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DATE	
REVISIONS	
FILE NO.	
FIG	

SCALE 1:5000

LAKE LEA AREA  
1986 ARSENIC  
GEOCHEMISTRY  
LEA 4-4

5 cm

**KEY**  
x Rock Chip (Float) Sample  
⊗ Rock Chip (Outcrop) Sample  
— Stream Sediment Sample  
— Break-of-Slope Sample  
• Soil Sample  
**NB: ONLY ASSAYS GREATER THAN  
10 PPM. PLOTTED**

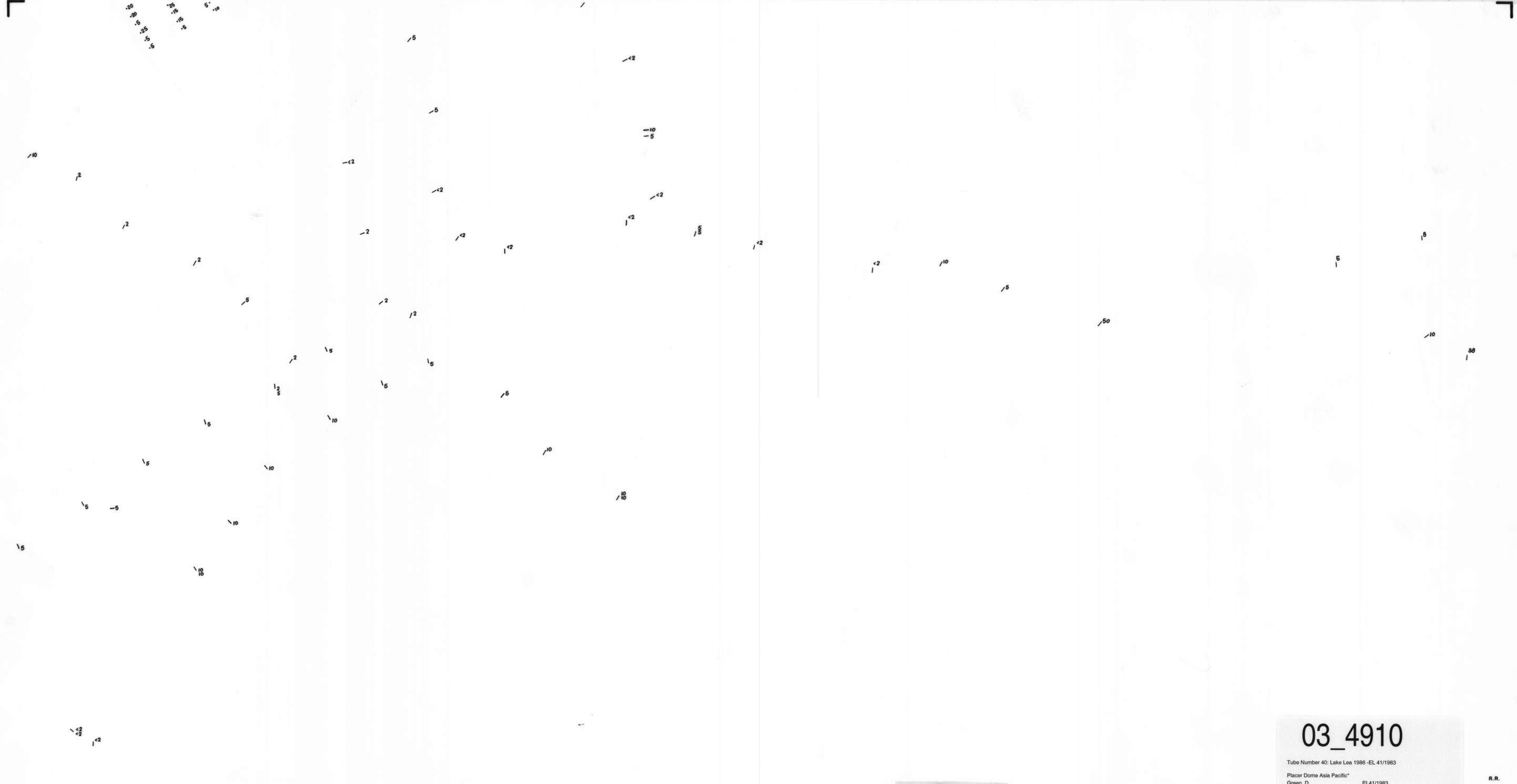
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Placer Dome Asia Pacific\*  
Green, D. EL41/1983

**ARSENIC GEOCHEMISTRY  
(P.P.M.)**

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S.F.  
SEP. 86

LAKE LEA AREA  
15,000 COPPER  
GEOCHEMISTRY  
LEA 4-4

50  
50  
50  
50  
50  
50  
50  
50  
50  
50



**KEY**  
x Rock Chip (Float) Sample  
⊗ Rock Chip (Outcrop) Sample  
⊙ Stream Sediment Sample  
⊖ Break-of-Slope Sample  
• Soil Sample

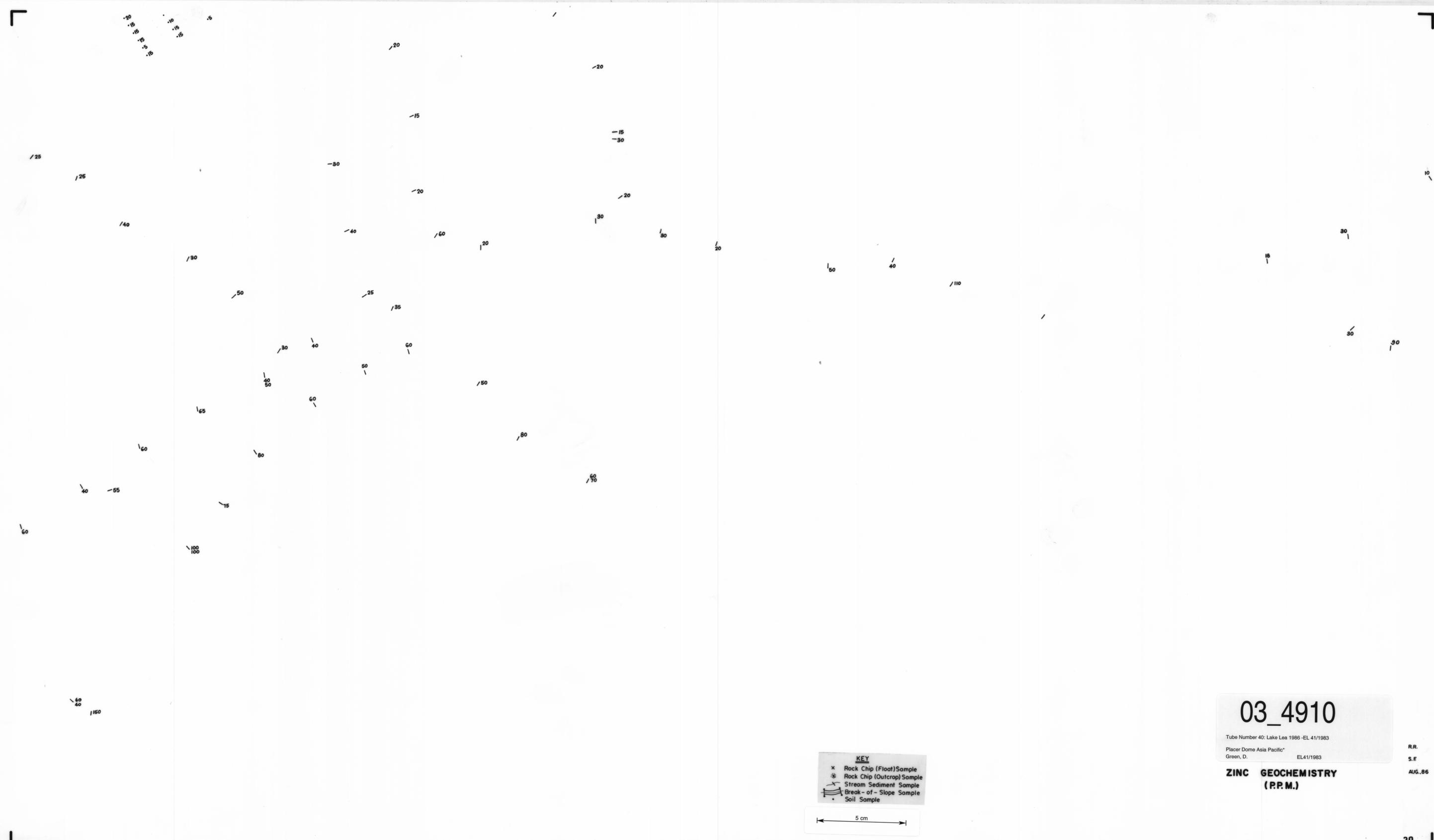
5 cm

**03\_4910**  
Tube Number 40: Lake Lea 1986-EL 41/1983  
Placer Dome Asia Pacific\*  
Green, D. EL41/1983

**COPPER GEOCHEMISTRY  
(P.P.M.)**

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LAKE LEA AREA  
1:5,000 ZINC  
GEOCHEMISTRY  
LEA 4-4



**KEY**  
x Rock Chip (Float) Sample  
o Rock Chip (Outcrop) Sample  
x Stream Sediment Sample  
--- Break-of-Slope Sample  
• Soil Sample

5 cm

03\_4910

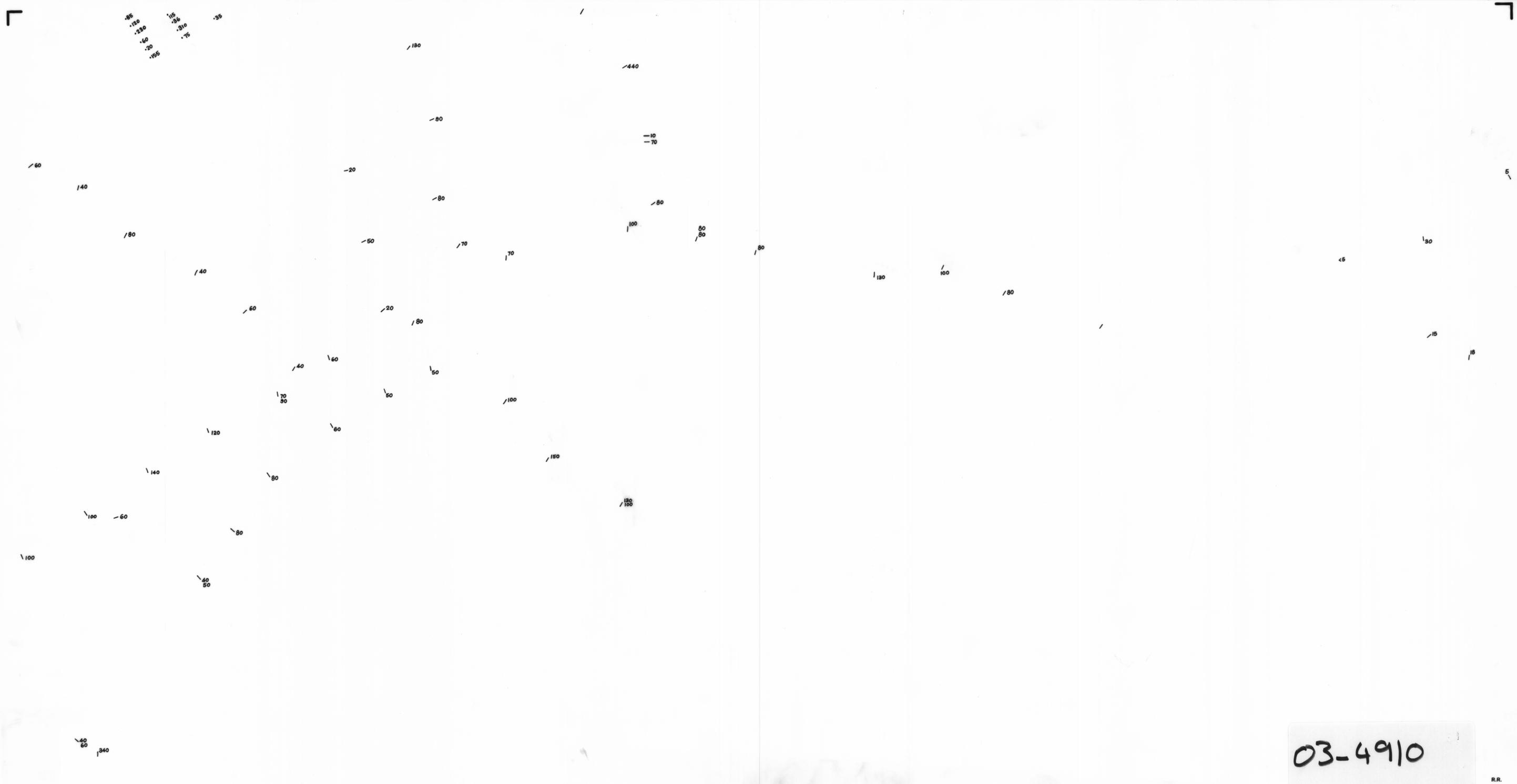
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Placer Dome Asia Pacific\* EL41/1983  
Green, D.

**ZINC GEOCHEMISTRY**  
(P.P.M.)

R.R.  
S.F.  
AUG. 86

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LAKE LEA AREA  
#15000 LEAD  
GEOCHEMISTRY  
LEA 4-4



**KEY**  
x Rock Chip (Float) Sample  
o Rock Chip (Outcrop) Sample  
— Stream Sediment Sample  
| Break-of-Slope Sample  
• Soil Sample

5 cm

03-4910

LEAD GEOCHEMISTRY  
(P.P.M.)

R.R.  
S.F.  
AUG. 86