

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21153

1990 GEOLOGICAL, GEOCHEMICAL
AND GEOPHYSICAL REPORT
ON THE
PL 7-13 CLAIMS
VOLUME II - FIGURES

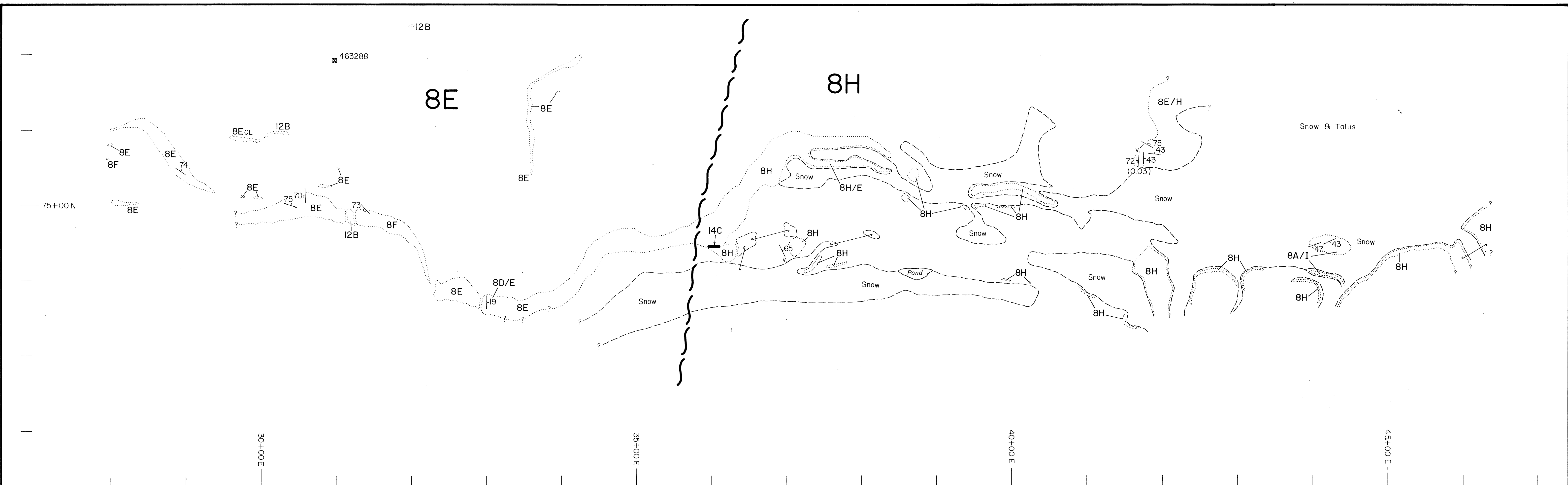
Part 2
of 2

Located in the Galore Creek Area
Liard Mining Division
NTS 104G/4E
57° 03' North Latitude
131° 36' West Longitude

-prepared for-
ROYCE INDUSTRIES INC.

-prepared by-
Brian K. Yamamura, Geologist
Henry J. Awmack, P.Eng

December, 1990



MINERALS AND ALTERATION TYPES

AS arsenopyrite	AZ azurite	BO bornite
CA calcite	CB Fe-carbonate	CL chlorite
CP chalcopyrite	CY clay	EP epidote
GL galena	GE goethite	JA jarosite
MC malachite	MG magnetite	MO molybdenite
MS sericite	PO pyrrhotite	PY pyrite
SI silica	SP sphalerite	

SYMBOLS

- Rock Outcrop
- Geological Contact (approximate)
- Fault - approximate (inclined, horizontal movement)
- Bedding with Dip
- Foliation, Schistosity (inclined, vertical)
- Joint (inclined, vertical)
- Lination (inclined)
- Dyke
- Vein with Dip (inclined, vertical, unknown) and true width in metres
- Rock Sample - Grab from Outcrop (Located, Approximate)
- Rock Sample - Float (Located, Approximate)
- Silt sample
- Soil sample line with 25 metre and 100 metre stations. Results shown for Au >36 ppb, Cu >110 ppm, Ag >0.9 ppm, Pb >26 ppm, Zn >155 ppm and As >21 ppm.
- Trench
- Area of Iron-Carbonate Alteration
- Carbonate Cemented Breccia + Alteration Zone
- Legal Corner Post (Located, Approximate)

LEGEND

LITHOLOGIES

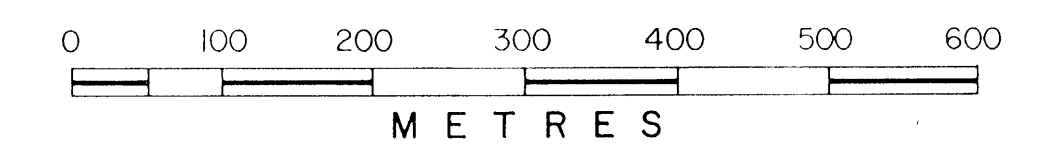
- TERTIARY**
 Dykes and sills
 14A Andesite.
 14B Basalt (gabbro).
 14C Lamprophyre (biotite minette).
 14E Rhyolite.
- EOCENE**
 13A Biotite quartz monzonite to monzonite: may range to a granodiorite phase; usually equigranular, medium-grained and leucocratic.
 13C Quartz monzonite to quartz syenite stocks and dykes: similar to 13A but biotite is not common.
- JURA-CRETACEOUS AND TERTIARY**
 Coast Plutonic Complex
 12B Biotite hornblende diorite to granodiorite (and tonalite).
- MIDDLE TRIASSIC TO MIDDLE JURASSIC**
 Galore Creek Intrusives
 11B Orthoclase-porphyrritic monzonite: coarse- to medium-grained.
- UPPER TRIASSIC**
 Stuhini Group
 8 Undivided Stuhini Group volcanics, volcaniclastics and sedimentary rocks.
 8A Interbedded wackes, siltstone and argillites.
 8D Augite porphyry: includes pyroxene-phyric flows.
 8E Andesite ± andesite crystal tuffs: may have associated flow breccias.
 8F Microdiorite: intrusive variety of units 8D and 8E.
 8H Lapilli tuffs, pyroclastic breccia and agglomerate: matrix of crystal to ash tuff.
 8I Volcanic conglomerate: contains an abundance of volcanic clasts.
- Stikine Assemblage**
- PERMIAN**
 5 Rusty argillite: pyrite-pyrrhotite bearing.
- MISSISSIPPIAN AND OLDER**
 4 Undivided metavolcanics and metasediments.
 4A Tuff unit: consists of ash tuff, lapilli tuff and tuffaceous siltstone.
 4B Intermediate flows: feldspar-hornblende porphyry andesites, pyroxene-plagioclase porphyritic flows.
 4C Argillites and siltstones: usually strongly laminated, siltstone.
 4D Greywacke: fine- to medium-grained; thick sequences found within unit 4C.
 4I Chlorite-feldspar-quartz schist: may be gneissic in places.

Geology for Paydirt property after Holtby (1985).
 Additional geology from Caulfield and Kasper (1989).

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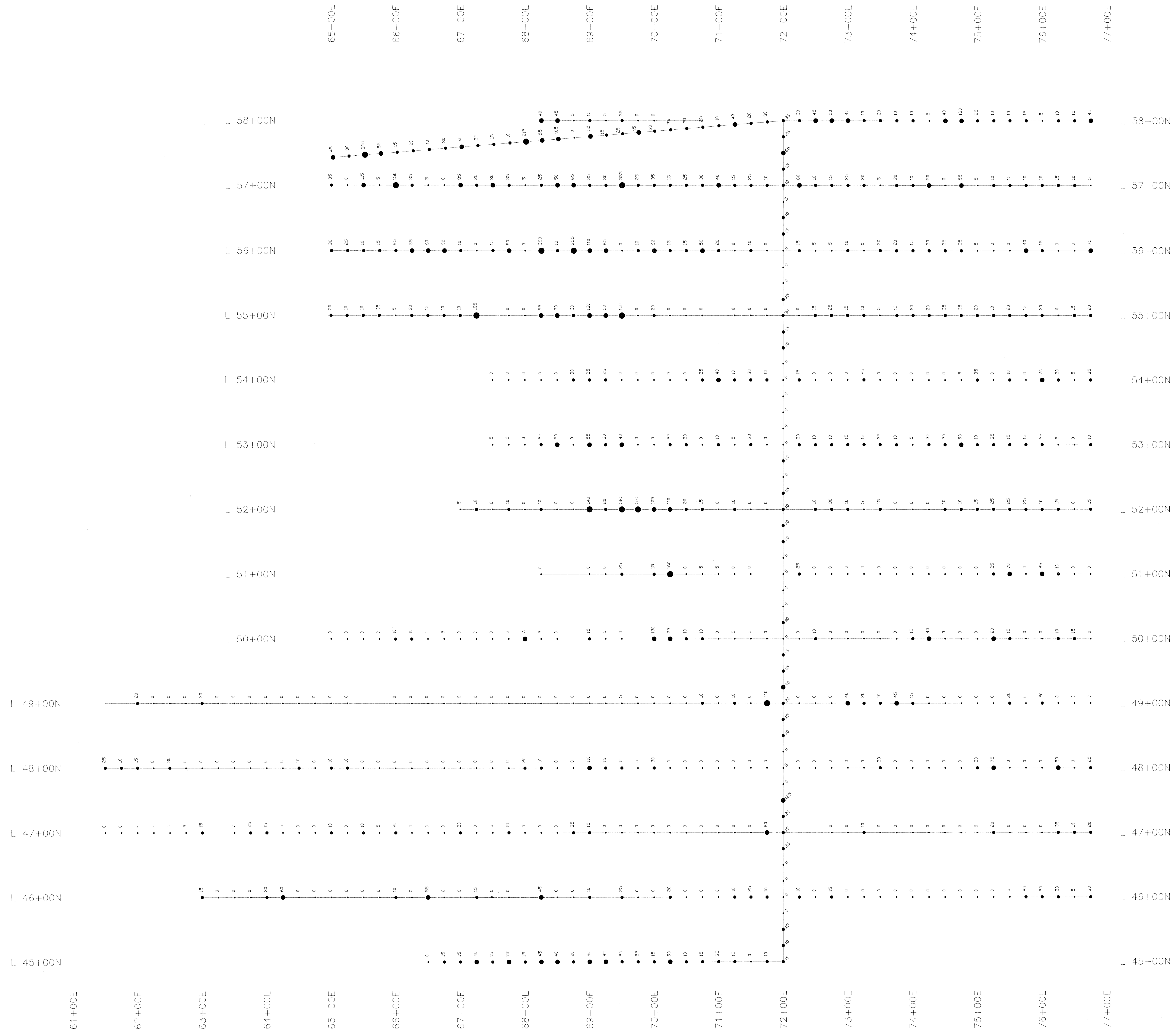
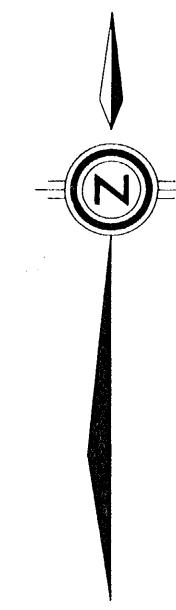


ROYCE INDUSTRIES INC.

PL 7-13 CLAIM GROUP
GEOLOGY & SAMPLE
LOCATIONS
Scot Grid

EQUITY ENGINEERING LTD.

DRAWN: B.Y. / J.J.E.	MINING DIV.: LIARD	FIG. 11
N.T.S.: 104 G/4E	SCALE: 1: 2500	
DATE: DEC., 1990	REVISED:	



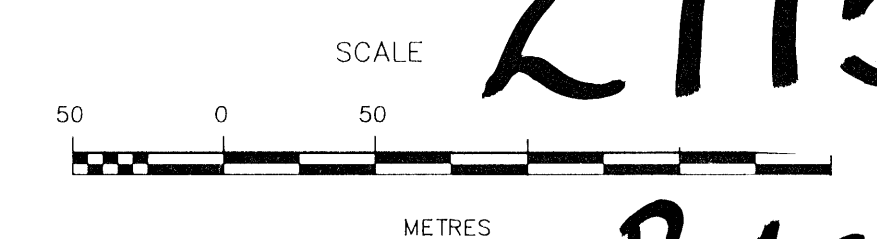
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LEGEND

Soil Sample Location and
Element Determination (ppb)

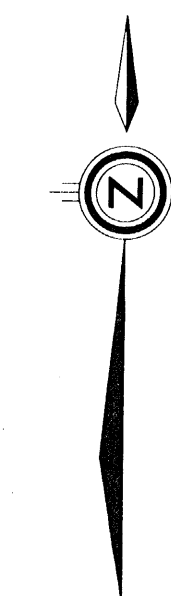
- 0 <= value < 9
- 9 <= value < 36
- 36 <= value < 140
- 140 <= value

Gold Determinations < 5 ppb Are Shown As 0



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ROYCE INDUSTRIES INC.		
PL 7 - 13 Claim Group SPLIT GRID Gold (Au) in Soils		
Equity Engineering Ltd.		
DRAWN: M.A.P. (Cambria)	MINING DIV.: LIARD	Fig.:
N.T.S. 104 G/AE	SCALE: 1:2,500	13
DATE: DECEMBER, 1990	REVISED:	



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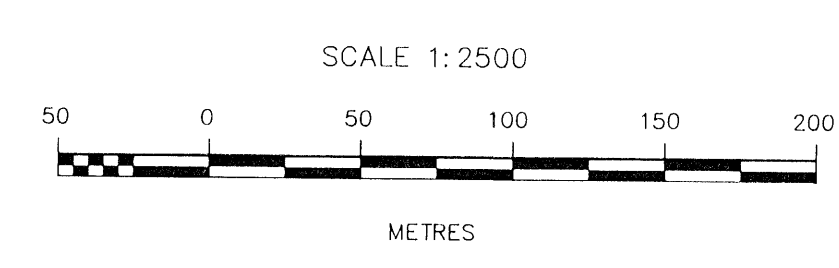


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LEGEND
Soil Sample Location and
Element Determination (ppm)

- 0 <= value < 0.3
- 0.3 <= value < 0.9
- 0.9 <= value < 2.5
- 2.5 <= value

Silver Determinations < 0.5 ppm Are Shown as 0.0



ROYCE INDUSTRIES INC.		
PL 7 - 13 Claim Group SPLIT GRID Silver (Ag) in Soils		
Equity Engineering Ltd.		
DRAWN: M.A.P. (Cambria)	MINING DIV.: LIARD	Fig.:
N.T.S. 104 G/4E	SCALE: 1:2,500	14
DATE: DECEMBER, 1990	REVISED:	



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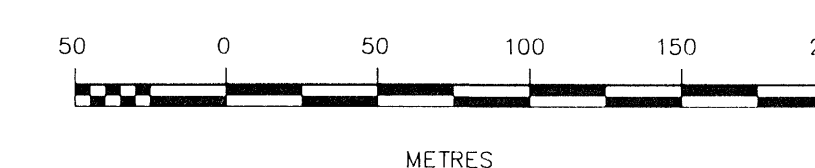


LEGEND

Soil Sample Location and
Element Determination (ppm)

- 0 <= value < 52
- 52 <= value < 110
- 110 <= value < 240
- 240 <= value

SCALE 1:2500

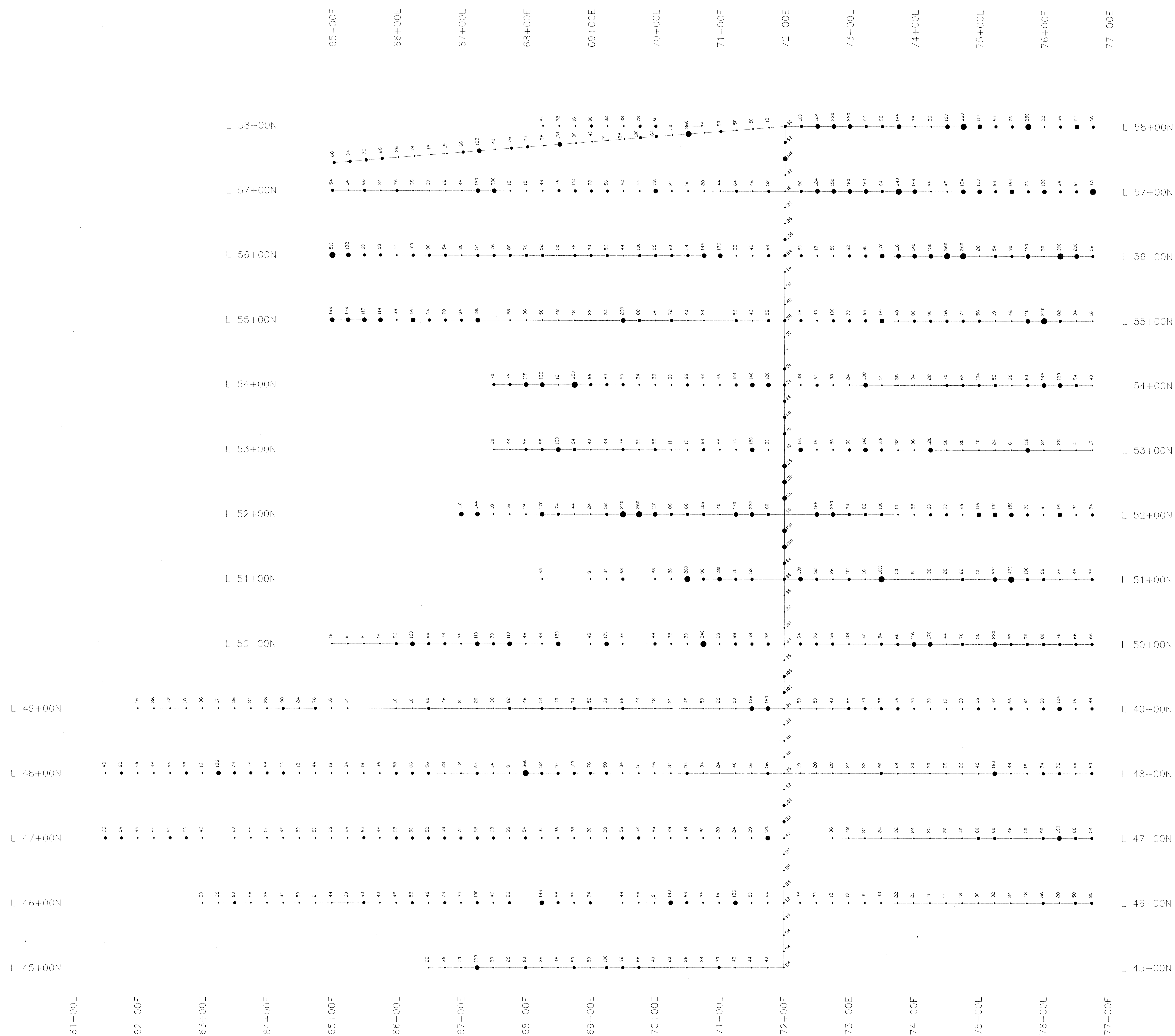


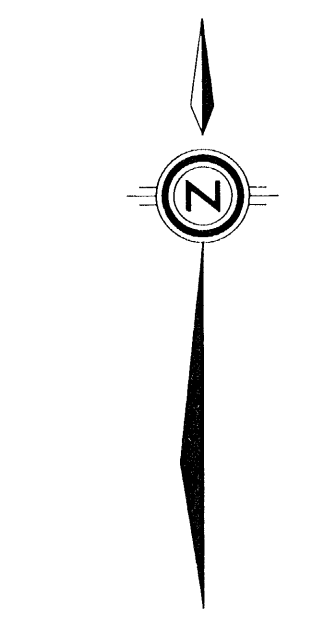
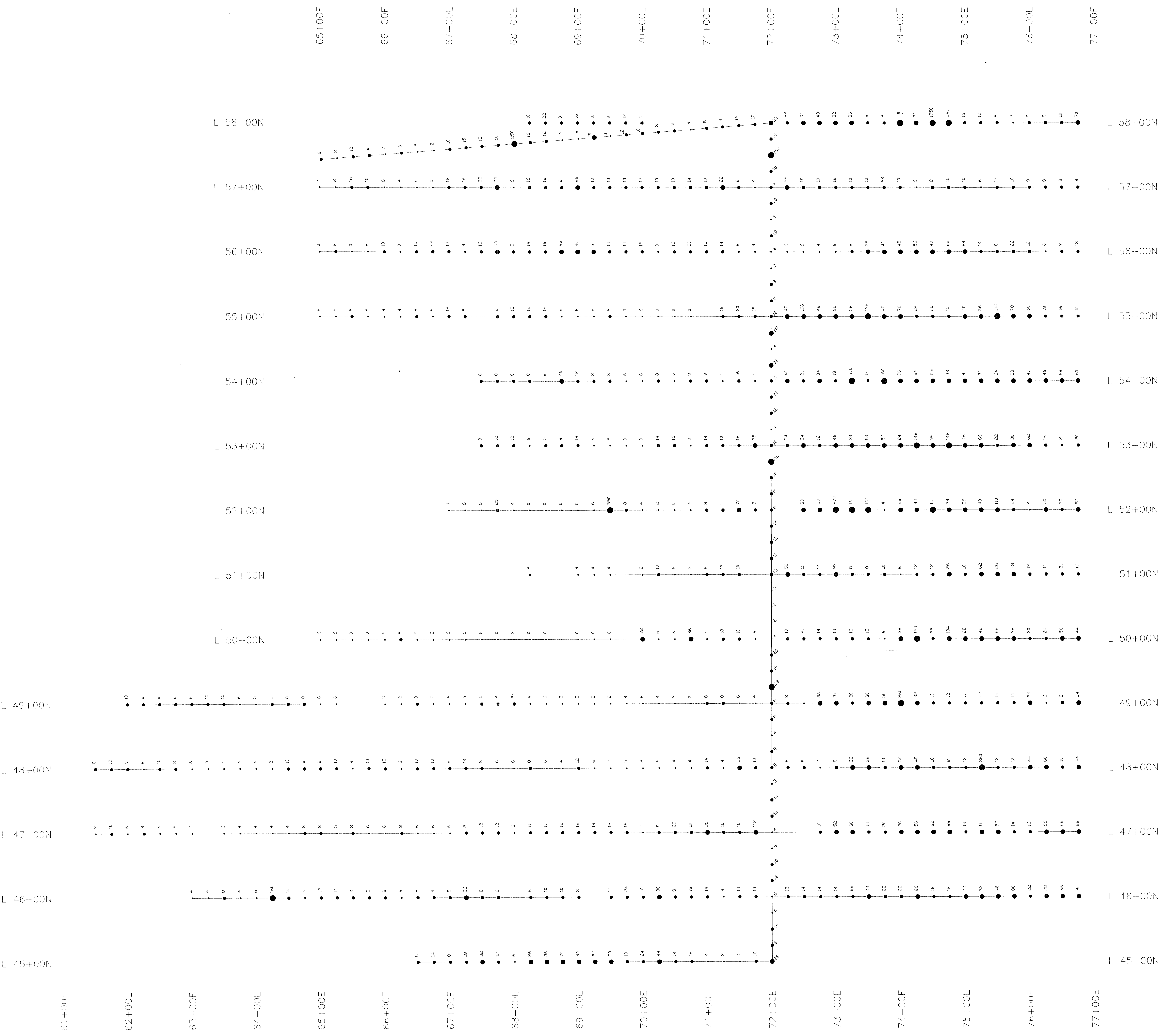
ROYCE INDUSTRIES INC.

PL 7 - 13 Claim Group
SPLIT GRID
Copper (Cu) in Soils

Equity Engineering Ltd.

DRAWN: M.A.P. (Cambria)	MINING DIV.: LIARD	Fig.: 15
N.T.S.: 104 G/4E	SCALE: 1:2,500	
DATE: DECEMBER, 1990	REVISED:	



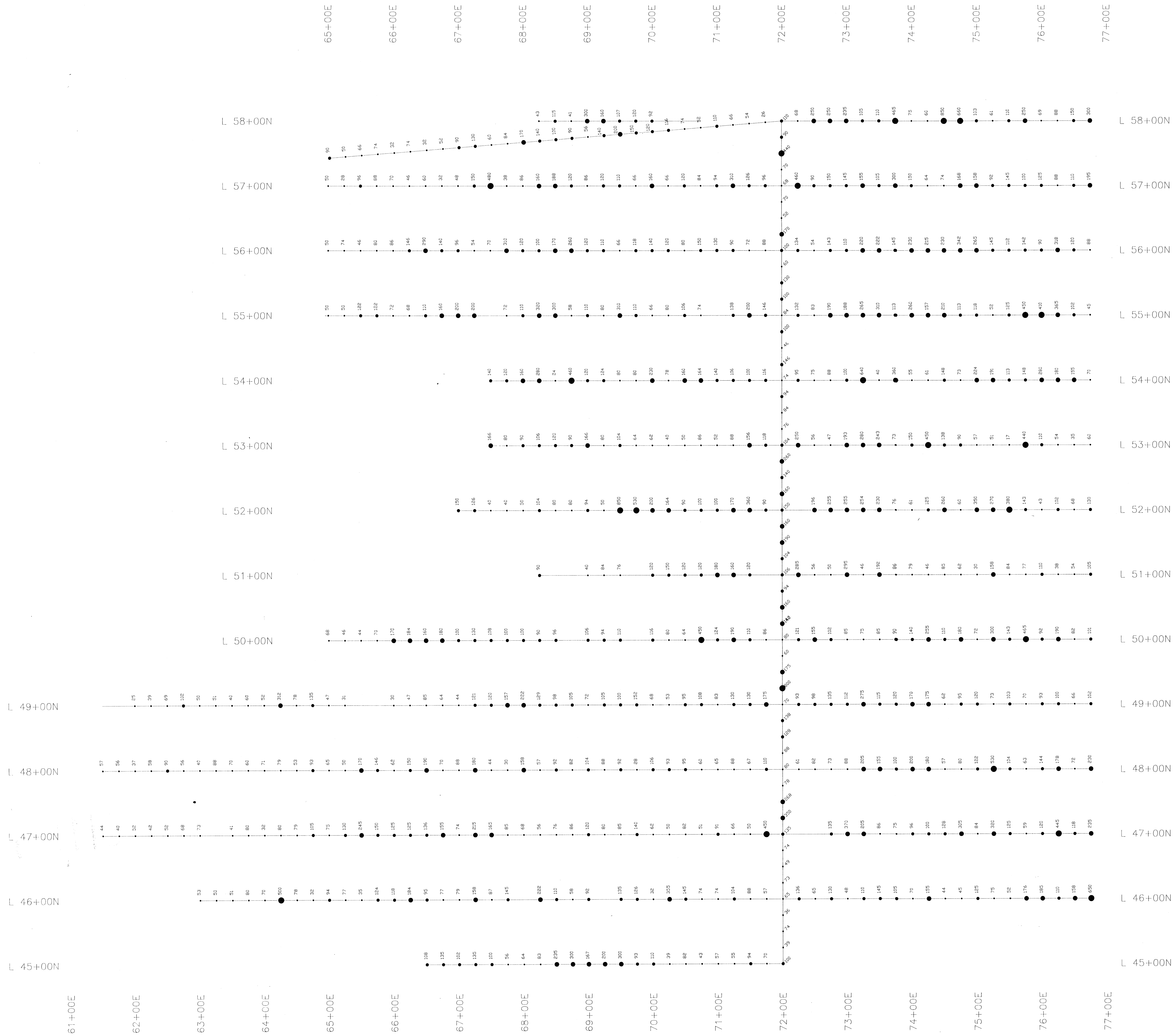
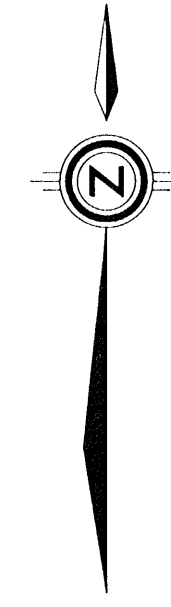


LEGEND
 Soil Sample Location and
 Element Determination (ppm)

- 0 <= value < 8
- 8 <= value < 26
- 26 <= value < 115
- 115 <= value

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 SCALE 1:2000
 METRES

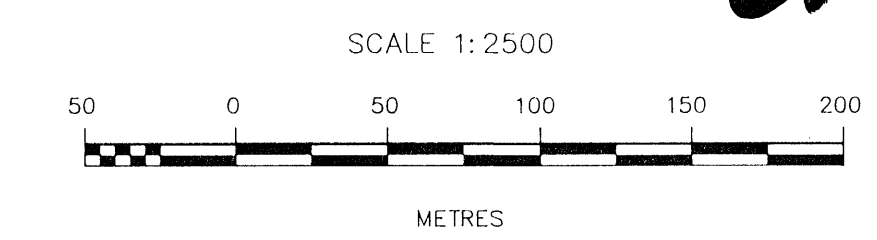
ROYCE INDUSTRIES INC.		
PL 7 - 13 Claim Group SPLIT GRID Lead (Pb) in Soils		
Equity Engineering Ltd.		
DRAWN: M.A.P. (Cambria)	MINING DIV.: LIARD	Fig.:
N.T.S. 104 G/4E	SCALE: 1:2,500	16
DATE: DECEMBER, 1990	REVISED:	



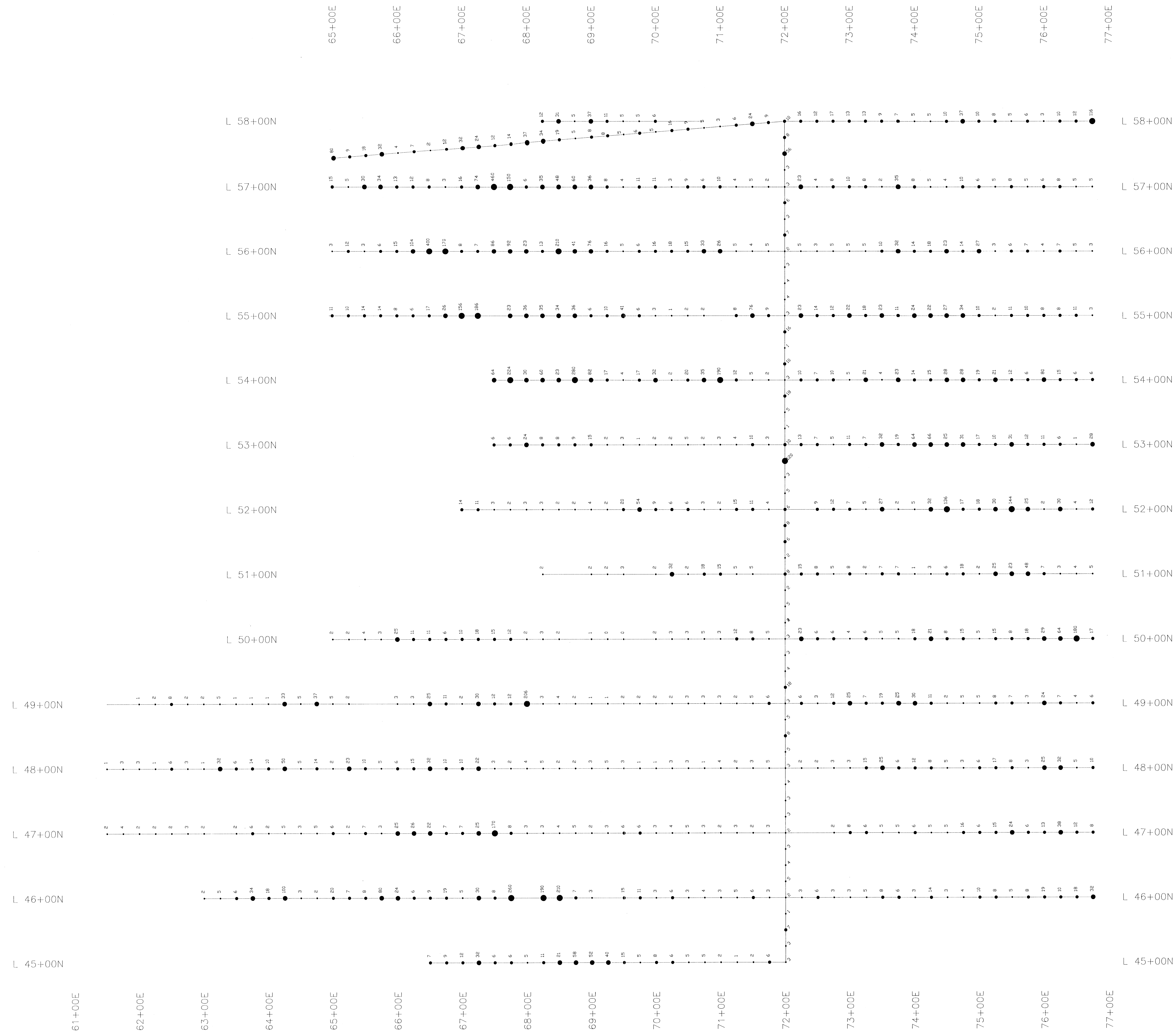
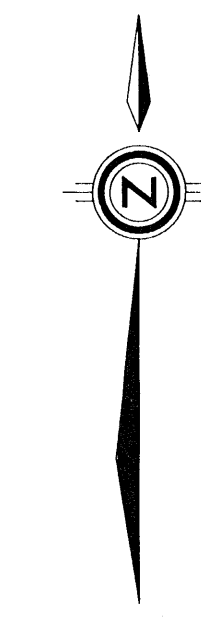
LEGEND
 Soil Sample Location and
 Element Determination (ppm)

- 0 ≤ value < 90
- 90 ≤ value < 155
- 155 ≤ value < 375
- 375 ≤ value

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ROYCE INDUSTRIES INC.		
PL 7 - 13 Claim Group SPLIT GRID Zinc (Zn) in Soils		
Equity Engineering Ltd.		
DRAWN: M.A.P. (Cambria)	MINING DIV.: LIARD	Fig.:
N.T.S. 104 G/4E	SCALE: 1:2,500	17
DATE: DECEMBER, 1990	REVISED:	



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LEGEND

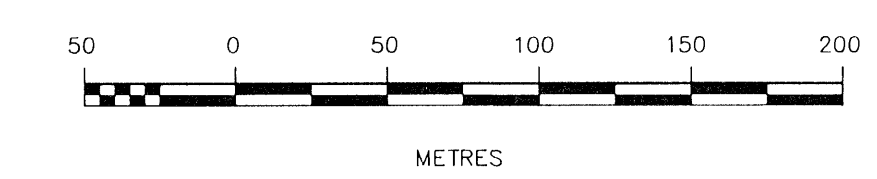
Soil Sample Location and
Element Determination (ppm)

- 0 <= value < 6
- 6 <= value < 21
- 21 <= value < 105
- 105 <= value

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SCALE 1:2500



ROYCE INDUSTRIES INC.		
PL 7 - 13 Claim Group SPLIT GRID Arsenic (As) in Soils		
Equity Engineering Ltd.		
DRAWN: M.A.P. (Cambria)	MINING DIV.: LIARD	Fig.:
N.T.S. 104 G/4E	SCALE: 1:2,500	18
DATE: DECEMBER, 1990	REVISED:	

Anomaly A

Anomaly E

Anomaly C

Anomaly B

Anomaly F

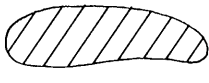
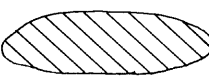
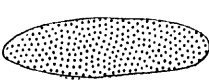
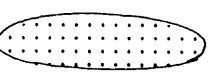

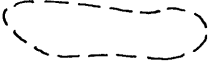
Anomaly D

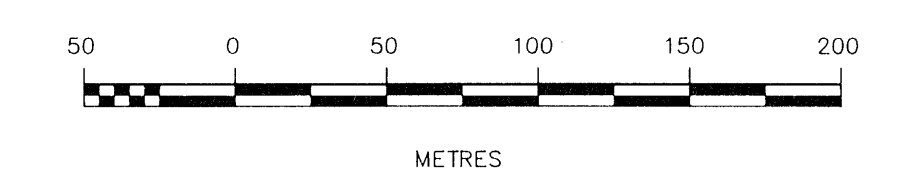
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[Handwritten Signature]

-  GOLD ≥ 36 ppb
-  ARSENIC ≥ 21 ppm
-  COPPER ≥ 110 ppm
-  LEAD ≥ 25 ppm
-  SILVER ≥ 0.9 ppm
-  ZINC ≥ 155 ppm

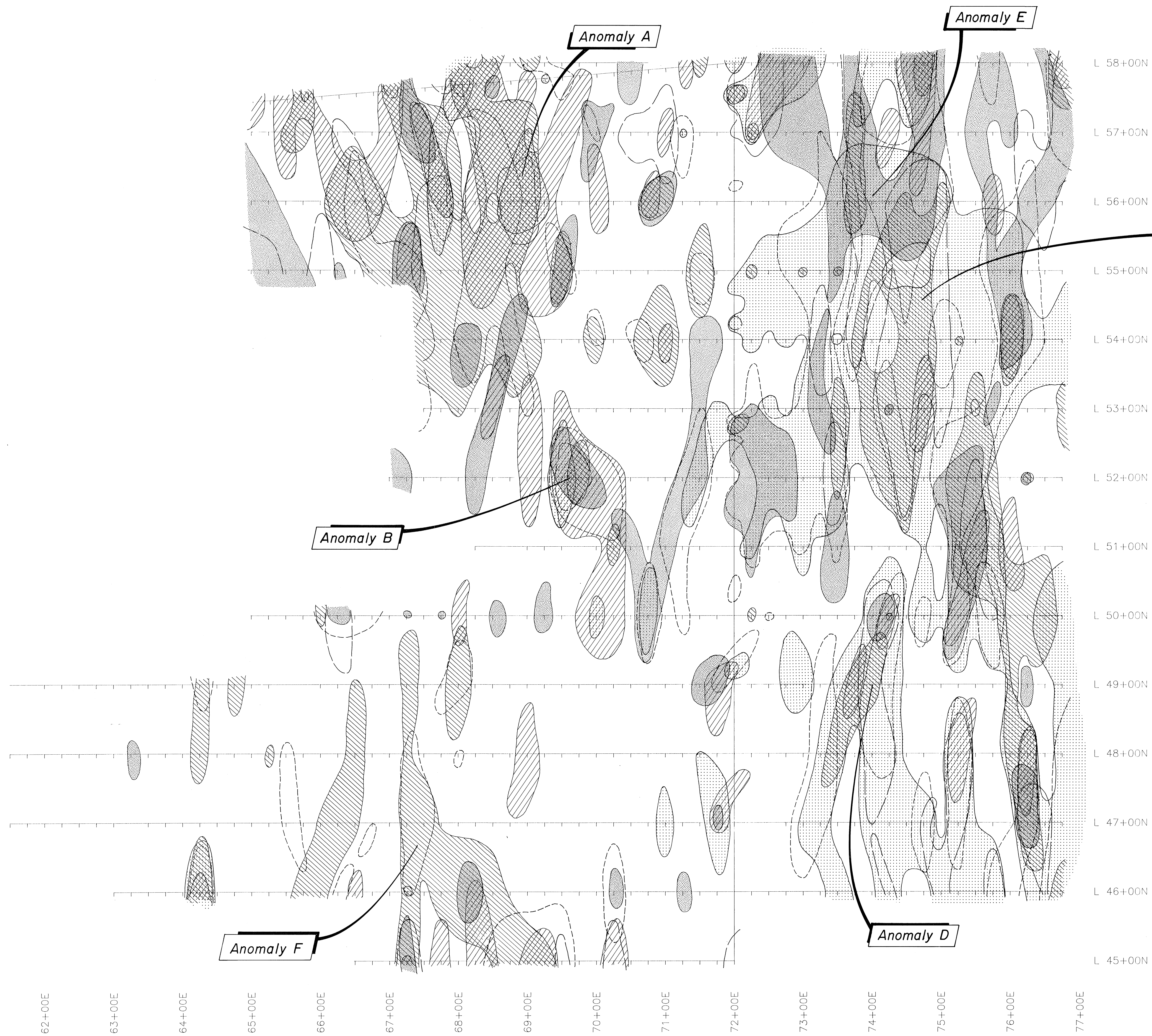


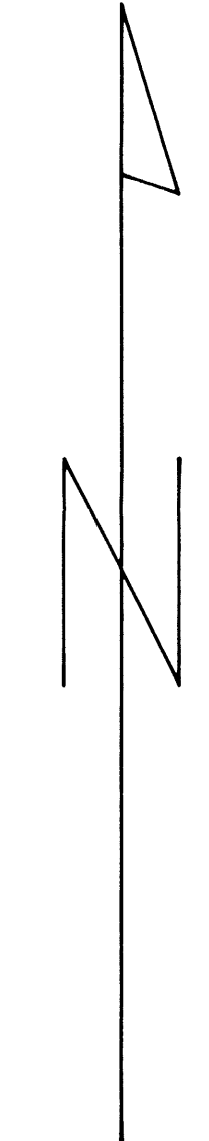
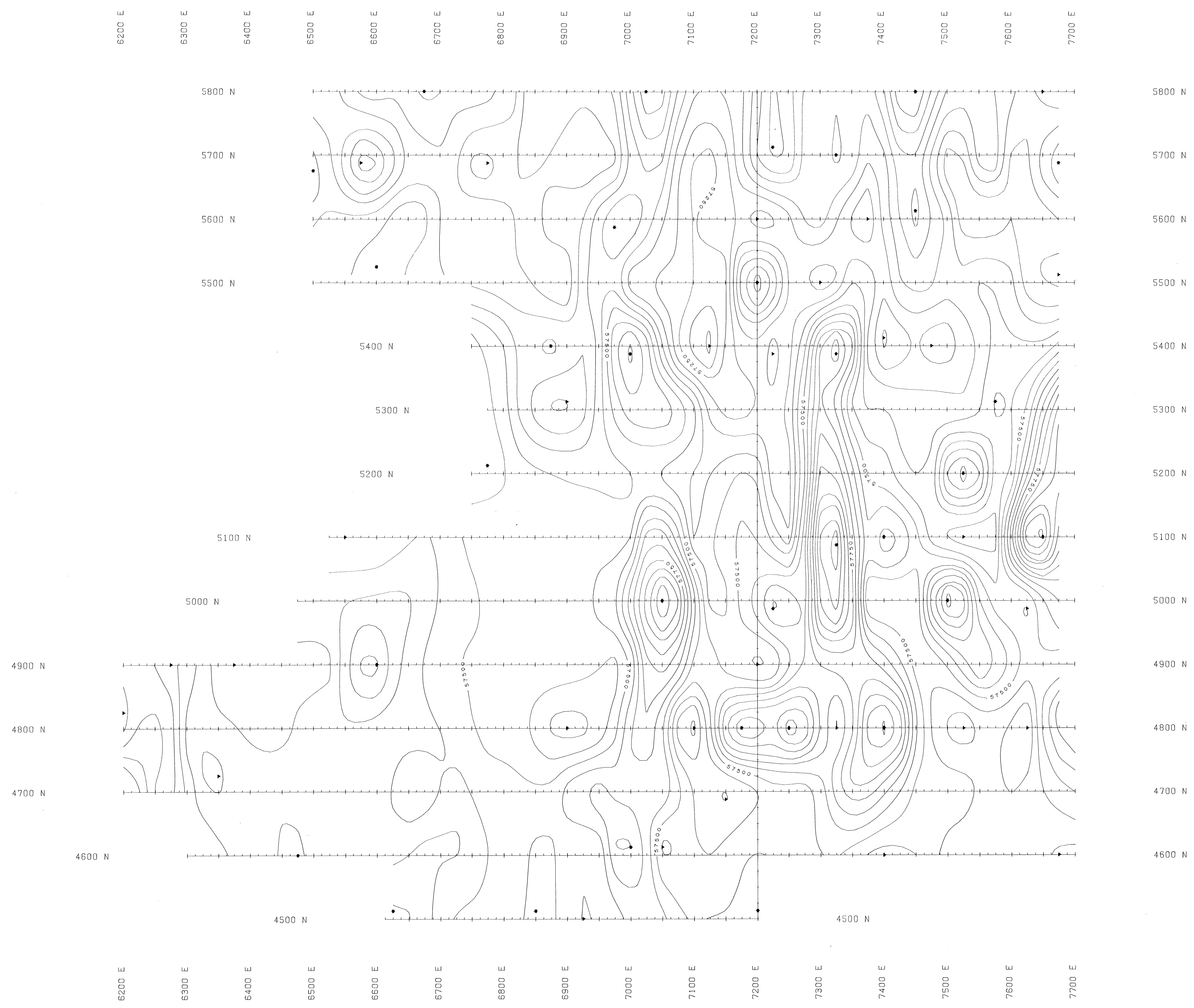
ROYCE INDUSTRIES INC.

PL 7 - 13 Claim Group
SPLIT GRID
Soil Geochemistry Compilation

Equity Engineering Ltd.

DRAWN: M.A.P. (Cambria)	MINING DIV.: LIARD	Fig.:
N.T.S. 104 G/4E	SCALE: 1:2,500	19
DATE: DECEMBER, 1990	REVISED:	

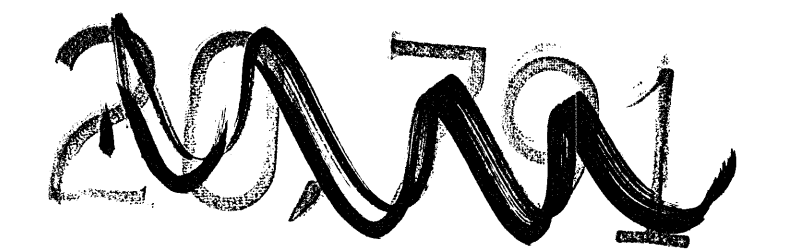




LEGEND

CONTOUR INTERVAL: 50 NT
 LABELLED INTERVAL: 250 NT
 MINIMUM VALUE: 56,918 NT
 MAXIMUM VALUE: 58,575 NT
 INSTRUMENTATION:
 FIELD UNIT: OMNI PLUS PROTON
 PRECESSION MAGNETOMETER
 BASE STATION: OMNI IV PROTON
 PRECESSION MAGNETOMETER

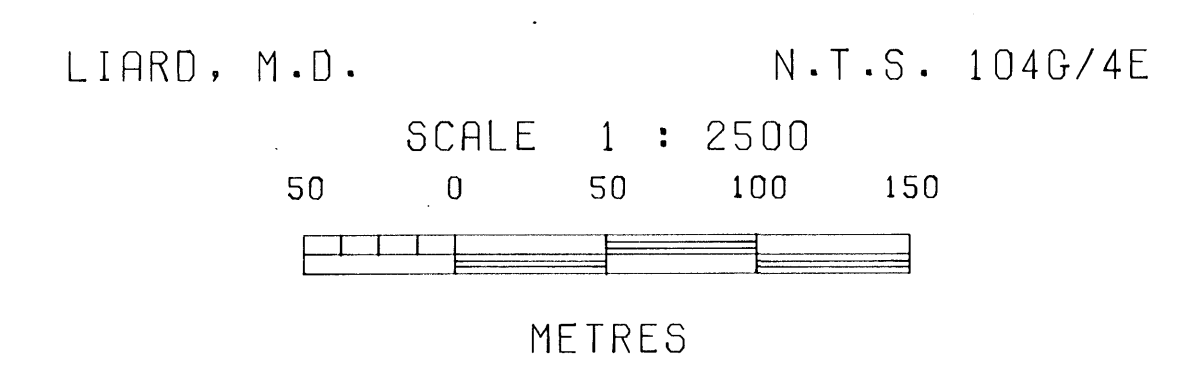
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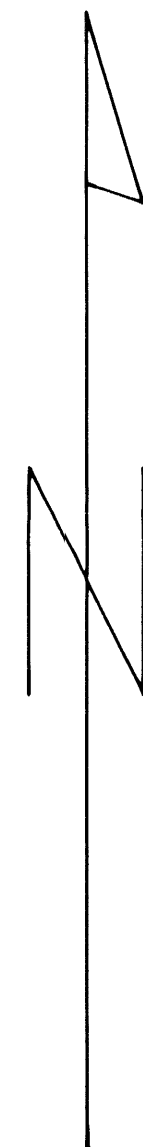
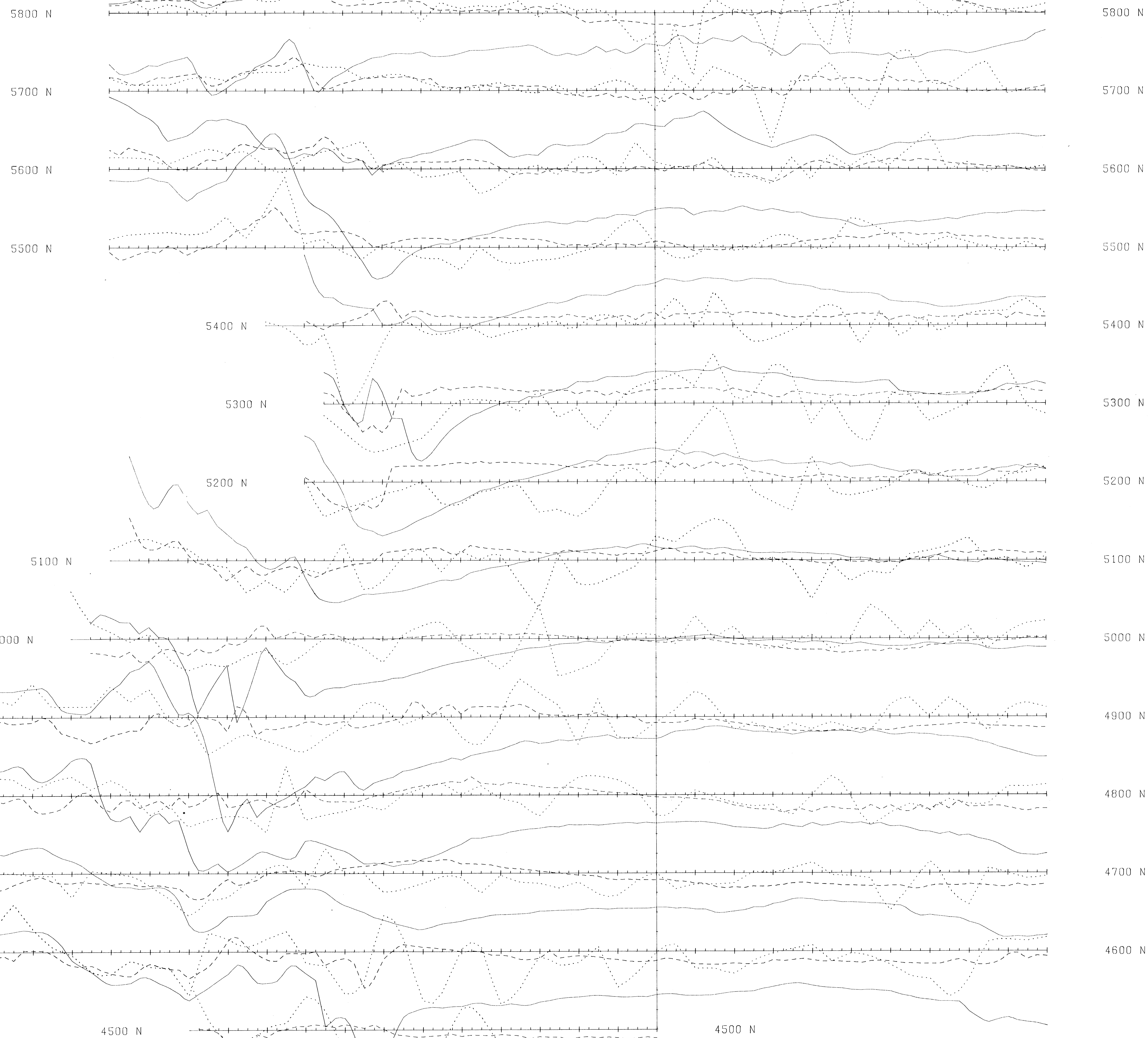
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 PL 7-13 CLAIMS
 SPLIT RIDGE GRID
 MAGNETOMETER SURVEY
 CONTOURED TOTAL FIELD



AUGUST 1990

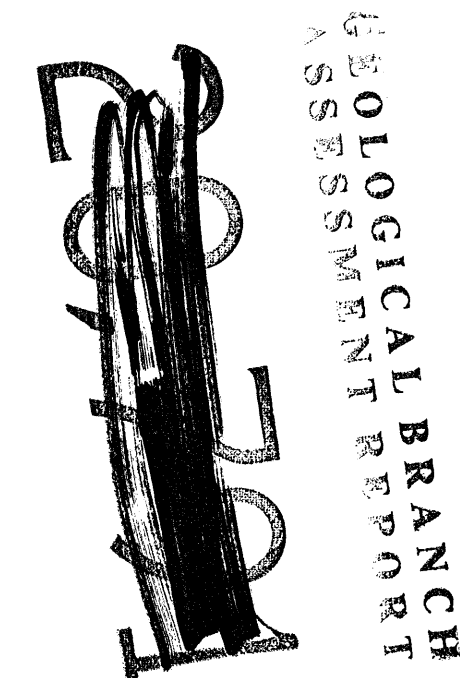
PLATE G18

6200 E 6300 E 6400 E 6500 E 6600 E 6700 E 6800 E 6900 E 7000 E 7100 E 7200 E 7300 E 7400 E 7500 E 7600 E 7700 E



LEGEND

SURVEY DIRECTION FACING EAST
 PROFILES POSITIVE UP
 DIP ANGLE - SOLID LINES
 PROFILE SCALE: 15% / CM
 BASE VALUE: 0%
 QUADRATURE - DASHED LINES
 PROFILE SCALE: 15% / CM
 BASE VALUE: 0%
 SLOPE - DOTTED LINES
 PROFILE SCALE: 30% / CM
 BASE VALUE: 0%
 INSTRUMENTATION: EDA OMNI PLUS
 VLF-EM SYSTEM
 STATION: NPM, 23.4 KHZ (HAWAII)



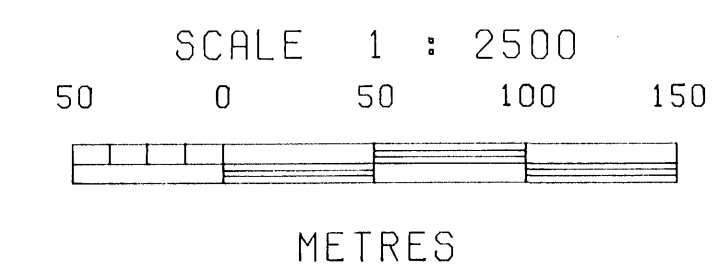
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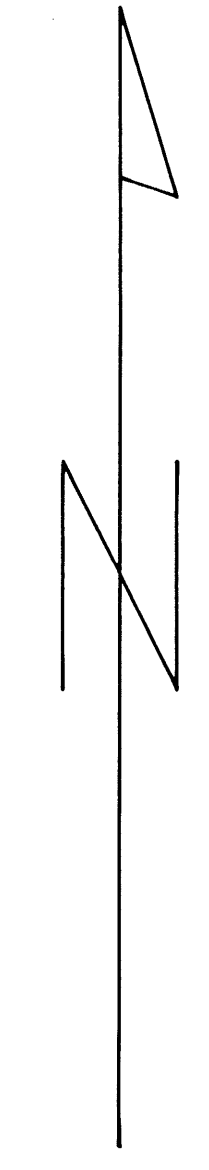
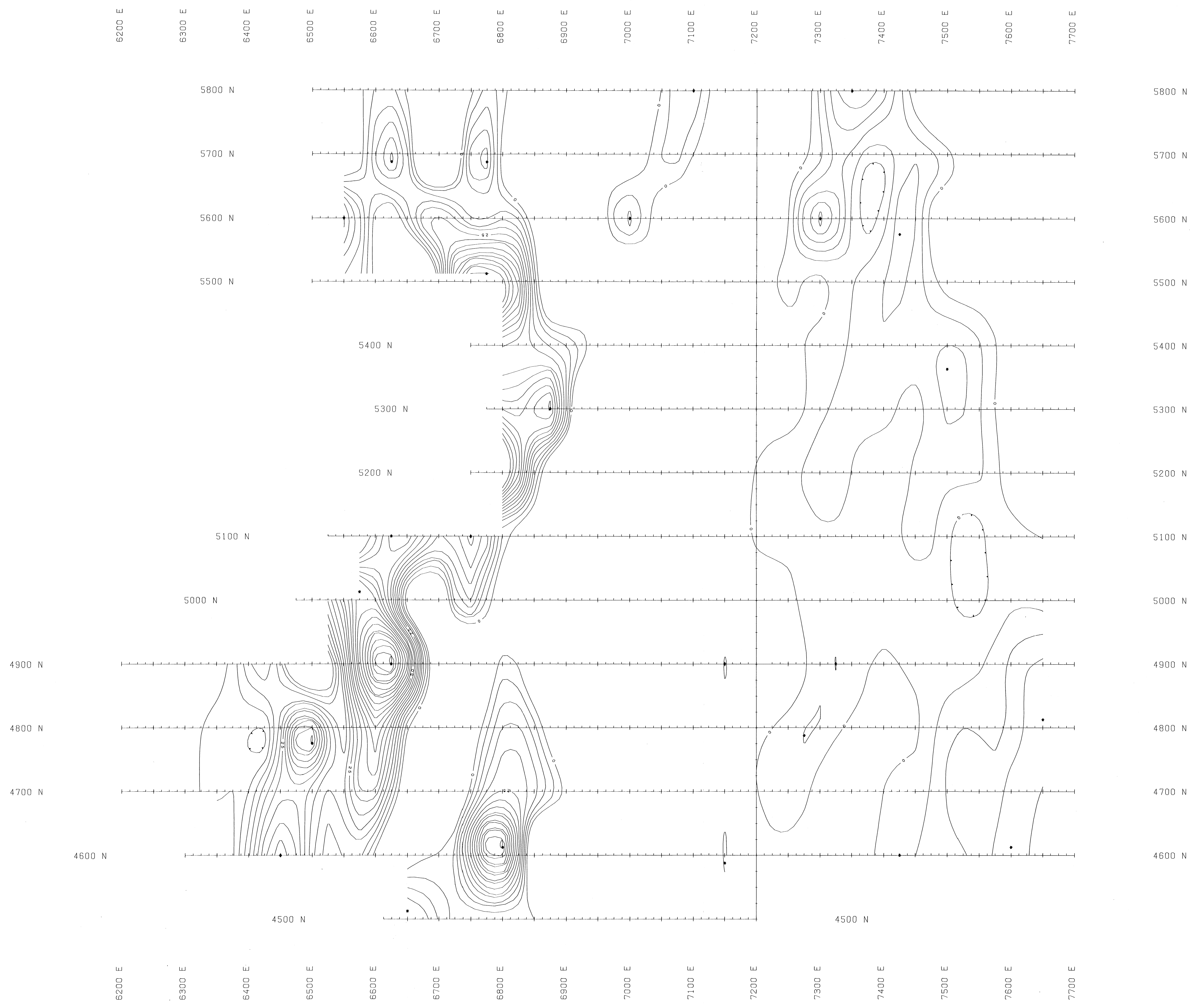
ROYCE INDUSTRIES INC.
 PL 7-13 CLAIMS
 SPLIT RIDGE GRID
 VLF-EM SURVEY
 DIP ANGLE, QUADRATURE, AND SLOPE

LIARD, M.D. N.T.S. 104G/4E



AUGUST 1990

PLATE G2A

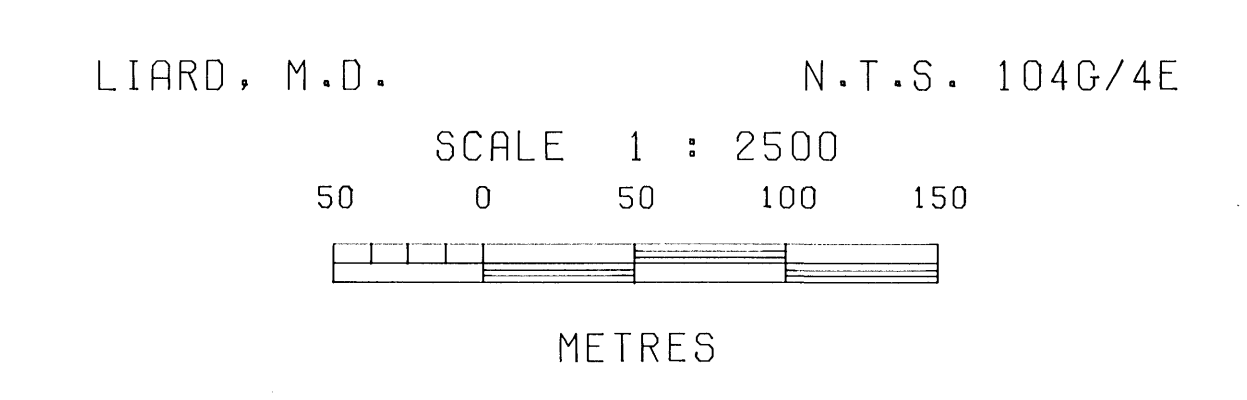


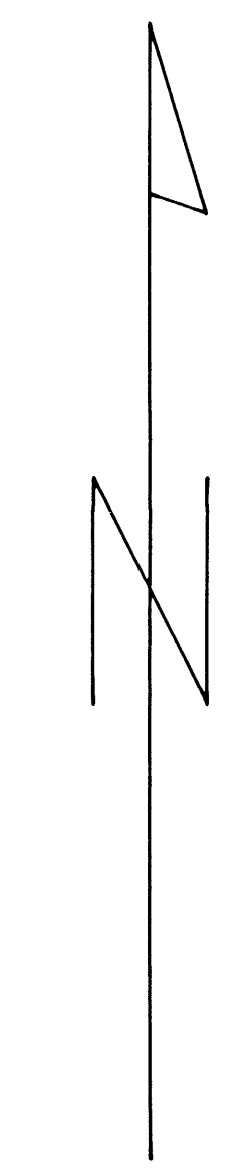
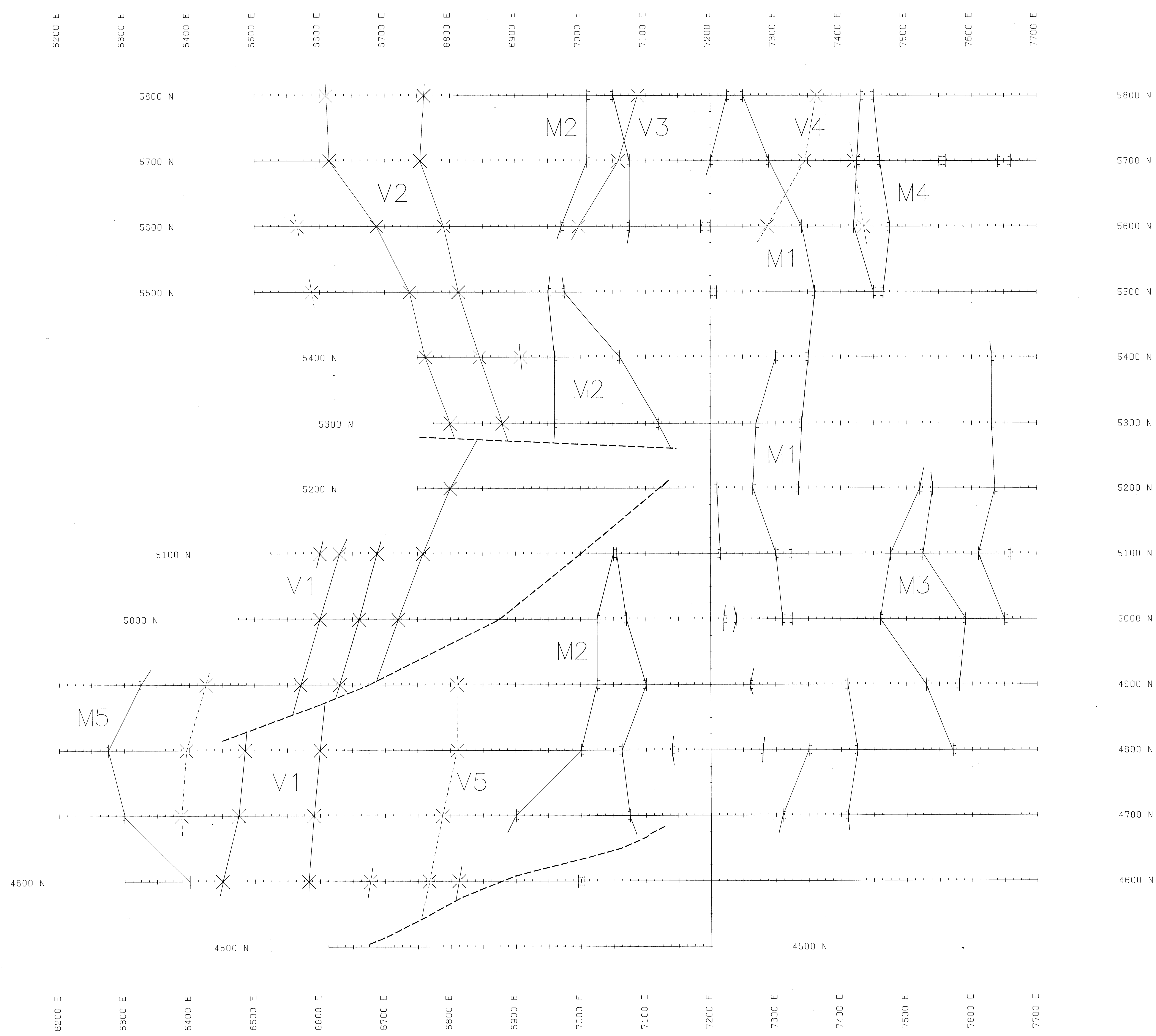
LEGEND
 SURVEY DIRECTION FACING EAST
 NEGATIVE CONTOURS SUPPRESSED
 CONTOUR INTERVAL: 5%
 LABELLED INTERVAL: 25%
 INSTRUMENTATION: EDA OMNI PLUS
 VLF-EM SYSTEM
 STATION: NPM, 23.4 KHZ (HAWAII)

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ROYCE INDUSTRIES INC.
 PL 7-13 CLAIMS
 SPLIT RIDGE GRID
 VLF-EM SURVEY
 FRASER FILTERED DIP ANGLE





LEGEND

- CONDUCTOR AXIS
- ✱ STRONG
- ✱ MEDIUM
- ✱ WEAK
- CONDUCTIVITY CONTACT (arrow shows direction of increasing conductivity)
- ∨ WELL DEFINED CONTACT
- ∨ POORLY DEFINED CONTACT
- || MAGNETIC ANOMALY SHOWING WIDTH
- POSSIBLE CROSSSTRUCTURES

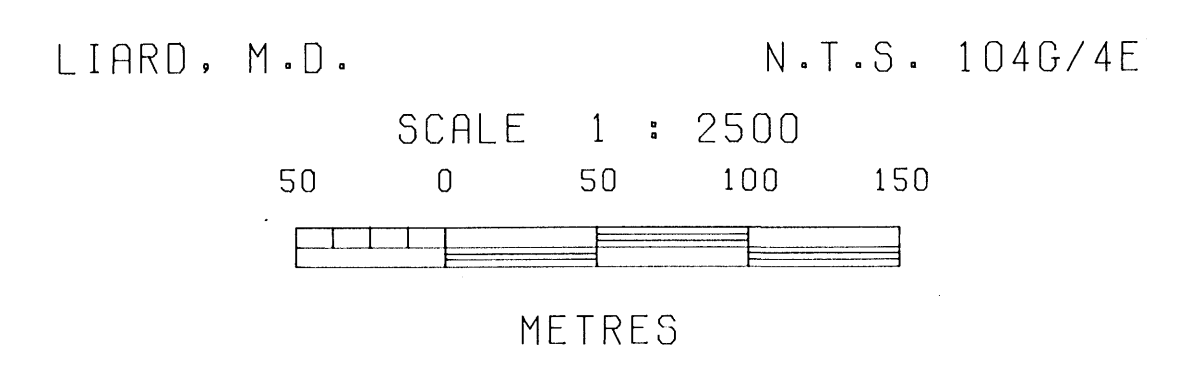
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ROYCE INDUSTRIES INC.
PL 7-13 CLAIMS
SPLIT RIDGE GRID
MAGNETOMETER AND VLF-EM SURVEY
COMPILATION MAP



AUGUST 1990

PLATE G3