

749378

Rock Chip - assays - (p.p.m.)

No.	Type	Location	Cu	Pb	Zn	Mn	S%	Fire assay	
								Ag	Au
27809 *	Qtz. vein	Adit 3	40	60	10	40	-	0.8	2.0
27810 *	Q.F.P.	"	40	40	20	10	-	1.4	0.2
27823	"	Trench 1	90	20	-	-	-	0.6	0.5
27824	Qtz. vein	"	20	10	-	-	-	1.9	0.3
27825	Q.F.P.	Adit 1	-	30	-	-	-	-	-
27826	"	"	10	30	-	-	-	-	-
27827	"	"	10	20	-	-	-	-	-
27828	"	"	10	10	-	-	-	-	-
27829	"	Adit 2	-	100	-	-	-	-	-
27830	"	"	-	40	-	-	-	-	-
27831	"	"	-	70	-	-	-	-	-
27832	Qtz. vein	"	-	90	-	-	-	-	-
27833	Q.F.P.	"	-	70	-	-	-	0.1	0.2
27834	s.l. tuff	S. of Fault	90	80	90	290	-	-	-
27835	Q.F.P.	Trench 2	20	30	-	-	-	0.2	0.4
27836	Qtz. vein	W. of Trench 1	90	2500	300	30	1.98	0.8	-
Detection Limit			10	10	10	10	0.1	0.1	0.1

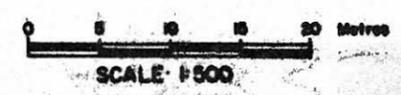
\* Grab samples only  
Q.F.P. - Quartz feldspar porphyry

LEGEND

- Trench
- Adit
- Quartz vein
- Dump

Strike readings are given relative to Grid North.

5 cm



THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

Henty - Yolande  
Diamond Hill Workings  
Geology and Rock Chip Geochemistry

82-1791 (3/3)  
SCALE 1:500  
DATE MAY 1982  
DRAWN BY P.J.  
CHECKED BY T.G.S.



REVISIONS  
FIG 59  
A3-230

Sketch Map Only

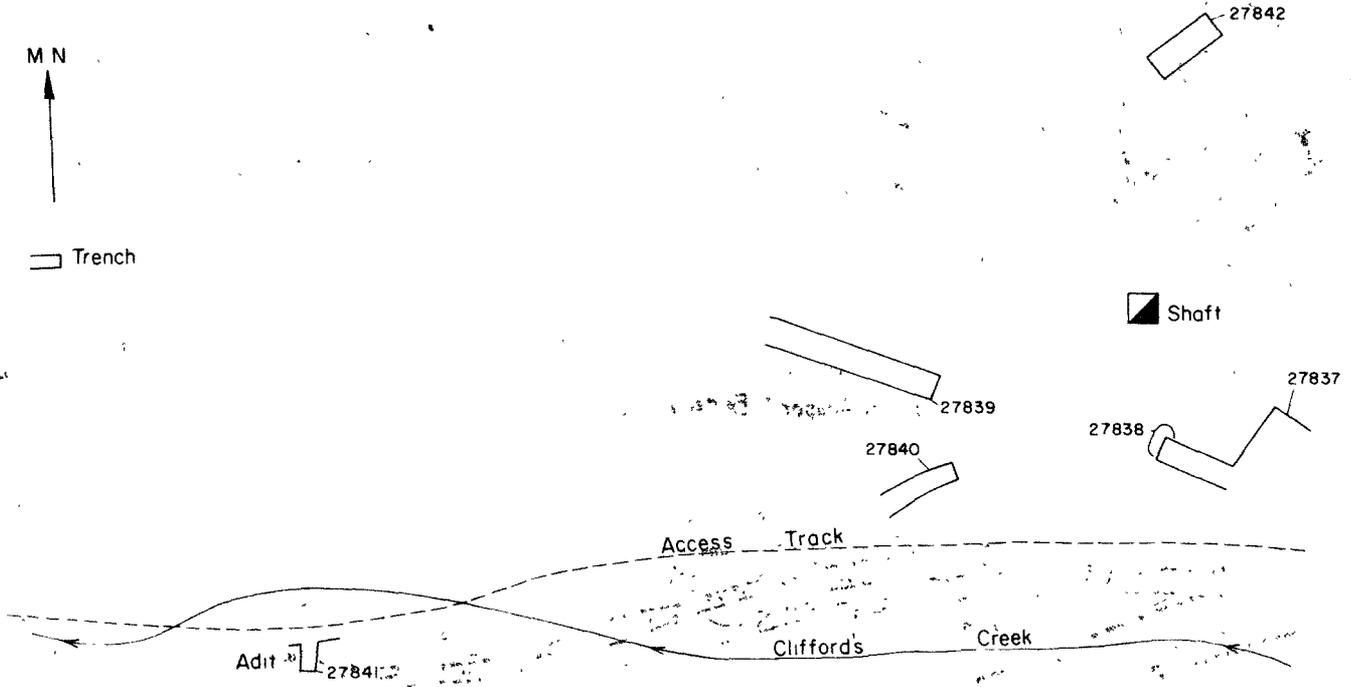
Scale 1:500

M N



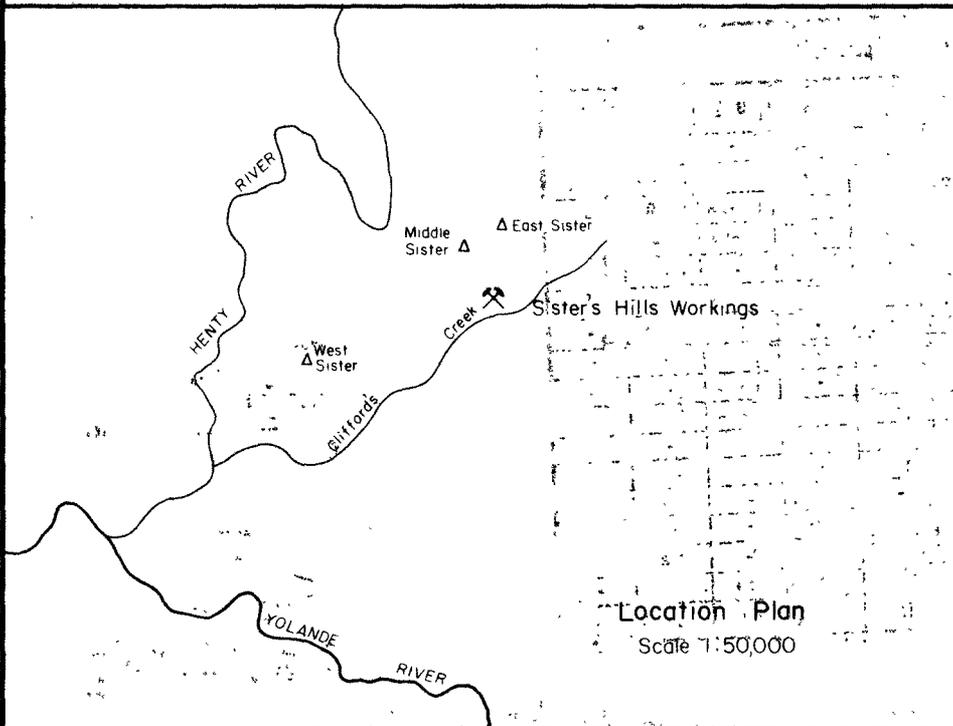
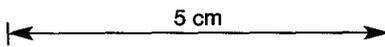
▭ Trench

▣ Shaft



Sample No	Cu	Pb	Zn	Ag	S%	Mn	Fe%	Ba	Description
27837	200	1150	600	-	-	2.1%	32%	-	brn-blk sandy Fe stone
27838	120	1400	600	-	-	0.5%	40%	-	brn-pink sandy Fe stone
27839	50	100	270	-	-	2.7%	35%	-	fine grained hematite and goethite
27840	20	330	900	-	-	1.9%	30%	-	banded Fe oxide and greywacke
27841	60	500	370	-	-	1.9%	38%	-	goethite and banded & remobilised Fe
27842	40	-	30	-	-	870	15%	-	blk-clay
Detection Limit	10	10	10	2	0.1	10	0.1	100	

Assays in ppm unless otherwise stated



Location Plan  
Scale 1:50,000

749379

82-1791 (3/3)

THE MOUNT LYELL M & R COMPANY LTD.

Sister's Hills Workings

A4-234

Scale 1:500

Drawn by R.A.K.

Date JULY '82

Draftsman J.G.S.

FIG 60

**Rock Chip Assays (p.p.m.)**

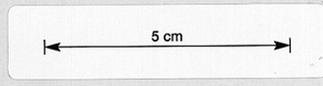
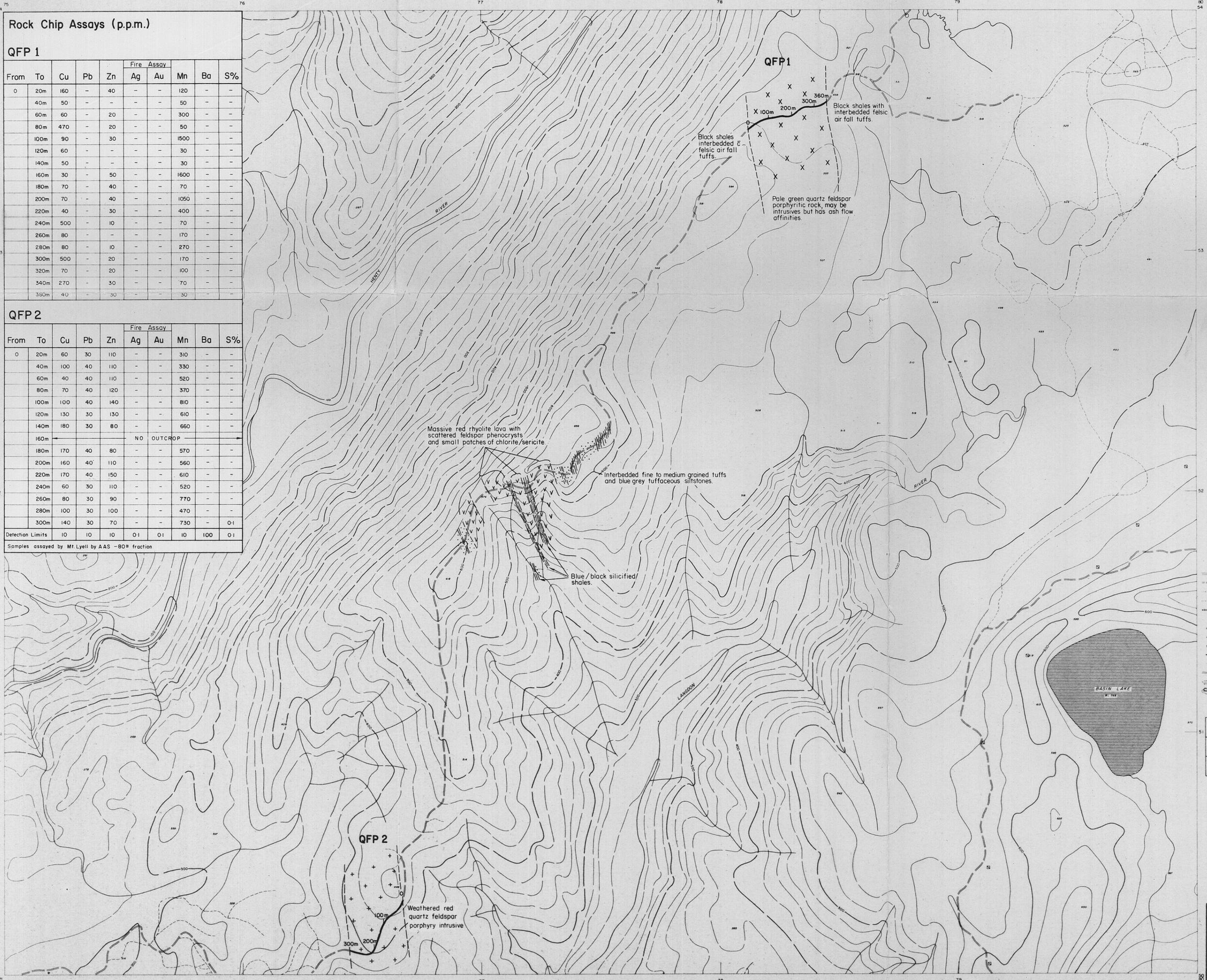
**QFP 1**

From	To	Cu	Pb	Zn	Fire Assay		Mn	Ba	S%
					Ag	Au			
0	20m	160	-	40	-	-	120	-	-
	40m	50	-	-	-	-	50	-	-
	60m	60	-	20	-	-	300	-	-
	80m	470	-	20	-	-	50	-	-
	100m	90	-	30	-	-	1500	-	-
	120m	60	-	-	-	-	30	-	-
	140m	50	-	-	-	-	30	-	-
	160m	30	-	50	-	-	1600	-	-
	180m	70	-	40	-	-	70	-	-
	200m	70	-	40	-	-	1050	-	-
	220m	40	-	30	-	-	400	-	-
	240m	500	-	10	-	-	70	-	-
	260m	80	-	-	-	-	170	-	-
	280m	80	-	10	-	-	270	-	-
	300m	500	-	20	-	-	170	-	-
	320m	70	-	20	-	-	100	-	-
	340m	270	-	30	-	-	70	-	-
	360m	40	-	50	-	-	30	-	-

**QFP 2**

From	To	Cu	Pb	Zn	Fire Assay		Mn	Ba	S%	
					Ag	Au				
0	20m	60	30	110	-	-	310	-	-	
	40m	100	40	110	-	-	330	-	-	
	60m	40	40	110	-	-	520	-	-	
	80m	70	40	120	-	-	370	-	-	
	100m	100	40	140	-	-	810	-	-	
	120m	130	30	130	-	-	610	-	-	
	140m	180	30	80	-	-	660	-	-	
	160m	NO OUTCROP								-
	180m	170	40	80	-	-	570	-	-	
	200m	160	40	110	-	-	560	-	-	
	220m	170	40	150	-	-	610	-	-	
	240m	60	30	110	-	-	520	-	-	
	260m	80	30	90	-	-	770	-	-	
	280m	100	30	100	-	-	470	-	-	
	300m	140	30	70	-	-	730	-	0.1	
Detection Limits		10	10	10	0.1	0.1	10	100	0.1	

Samples assayed by Mt. Lyell by AAS - 80% fraction

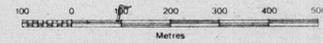


- SEALD ROAD BRIDGE
- VEHICULAR TRACK
- LOGGING TRACK BULLDOZER SCAR
- WALKING TRACK
- RAILWAY TRAMWAY ABANDONED
- PROMINENT PEAK
- TRIG STATION
- BENCH MARK
- SPOT ELEVATIONS
- RIVER CREEK
- LAKE
- SWAMP
- POWER LINE & PYLONS
- BUILDING
- FLYING FOX
- PIT
- COSTEAN TRENCH
- ADIT
- SHAFT (Depth in metres)
- OPEN CUT
- ALLUVIAL WORKINGS
- DUMP



749380

Photography: Lands Department 1979-80  
 South West Project F812  
 Photogrammetry: Associated Aerial Services Pty Ltd 1980  
 Grid Lines are 1000 Metre intervals of the  
 Australian Map Grid Zone 50  
 Grid Values are Shown in Full Only at the  
 South West Corner of the Map  
 Horizontal Datum: Australian Geodesic Datum 1984  
 Vertical Datum: Australian Height Datum (Tasmania)  
 Transverse Mercator Projection



82/1791 3/3

THE MOUNT LVELL MINING & RAILWAY COMPANY LTD

Henty Yolande

Quartz Feldspar Porphyritic Rocks

Bradshaw's Road

FIG 61

A2-233

Scale 1:5000  
 Date June 1982  
 Drawn by P.K.  
 Checked by T.G.S.

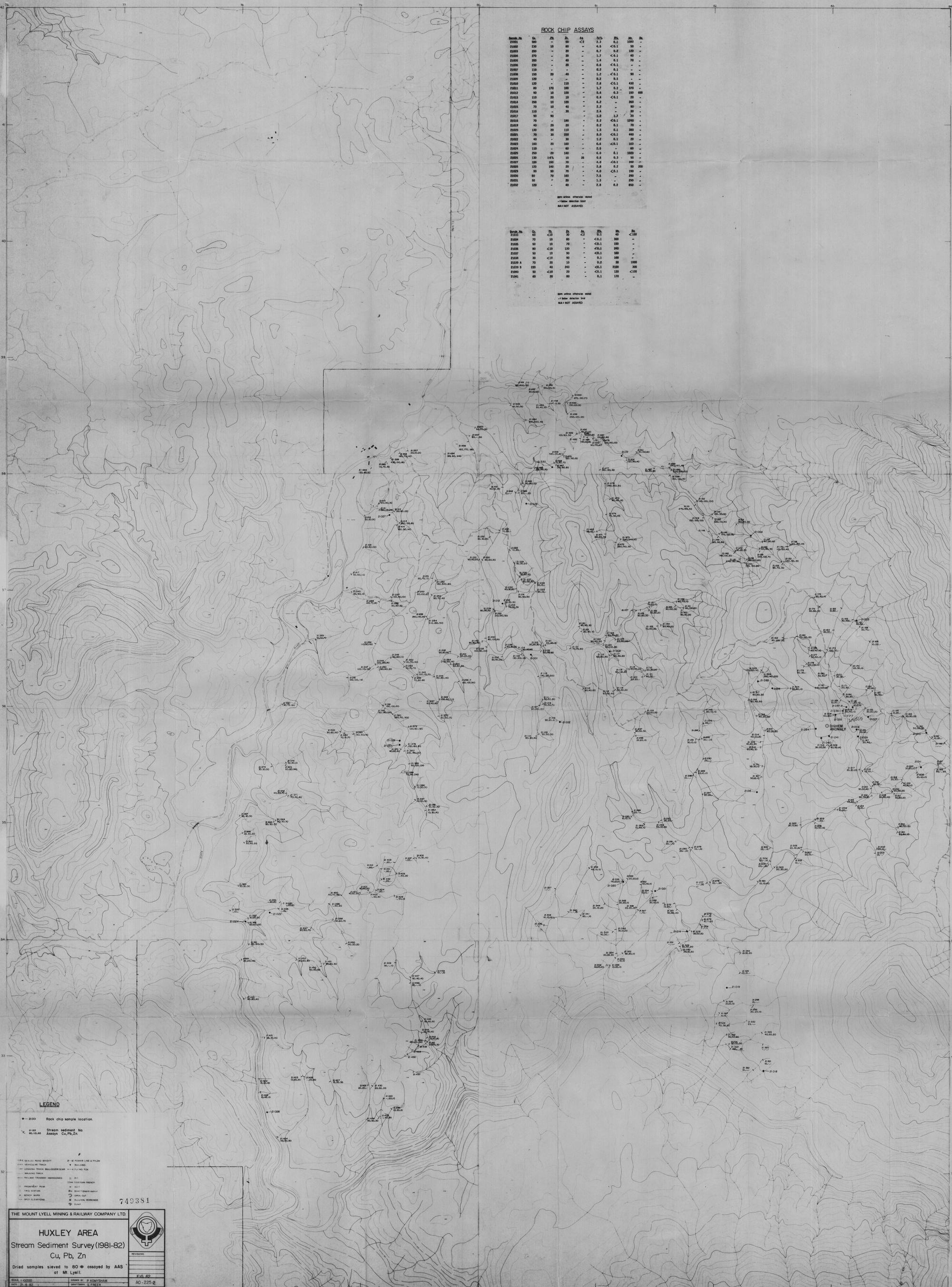
ROCK CHIP ASSAYS

Sample No.	Gr.	Fr.	Zn	Pb	Cu	Ag	Au
21001	100	-	<1	2.3	0.1	100	-
21002	120	10	60	-	4.5	<0.1	50
21003	200	-	20	-	0.7	0.2	100
21004	270	-	30	-	1.7	<0.1	40
21005	300	-	40	-	1.4	0.1	70
21006	320	-	50	-	0.6	<0.1	-
21007	110	-	-	-	0.2	0.1	-
21008	150	20	40	-	1.2	<0.1	80
21009	180	-	-	-	0.1	0.1	-
21010	100	120	110	-	2.8	<0.1	400
21011	80	170	300	-	1.7	0.2	210
21012	90	10	100	-	5.4	0.3	150
21013	110	20	10	-	0.4	<0.1	30
21014	200	10	100	-	4.2	-	200
21015	70	10	40	-	2.2	-	50
21016	110	-	20	-	2.6	-	30
21017	90	90	-	-	1.2	1.7	70
21018	70	-	190	-	2.2	<0.1	1500
21019	40	20	20	-	0.2	0.1	70
21020	170	20	110	-	1.5	0.1	300
21021	70	20	200	-	9.0	<0.1	400
21022	40	-	30	-	1.2	0.1	20
21023	140	20	140	-	0.6	<0.1	140
21024	110	-	60	-	2.6	-	60
21025	250	20	140	-	6.0	0.1	1500
21026	120	0.5	120	-	0.6	0.3	50
21027	100	150	70	-	4.0	<0.1	200
21028	100	140	20	-	2.8	0.2	90
21029	80	90	70	-	4.0	<0.1	100
21030	80	70	140	-	7.5	-	290
21031	50	-	20	-	1.3	-	100
21032	110	-	40	-	2.8	0.2	800

000 unless otherwise stated  
- below detection limit  
N/A = NOT ASSAYED

Sample No.	Gr.	Fr.	Zn	Pb	Cu	Ag	Au
21033	90	<10	80	-	<0.1	300	<100
21034	70	10	70	-	<0.1	150	-
21035	90	10	70	-	<0.1	150	-
21036	80	<10	120	-	<0.1	140	-
21037	50	10	90	-	<0.1	140	-
21038	30	<10	90	-	0.1	100	-
21039	70	20	20	-	0.2	30	1000
21039 S	230	40	240	-	<0.1	2100	300
21040	50	<10	70	-	<0.1	110	<100
21041	60	20	80	-	0.1	110	-

000 unless otherwise stated  
- below detection limit  
N/A = NOT ASSAYED



LEGEND

- 21000 Rock chip sample location
- 21000 Stream sediment No. Assays Cu, Pb, Zn
- 1:50000 METRIC GRID
- 1:25000 METRIC GRID
- 1:12500 METRIC GRID
- 1:6250 METRIC GRID
- 1:3125 METRIC GRID
- 1:1562 METRIC GRID
- 1:781 METRIC GRID
- 1:390 METRIC GRID
- 1:195 METRIC GRID
- 1:97 METRIC GRID
- 1:48 METRIC GRID
- 1:24 METRIC GRID
- 1:12 METRIC GRID
- 1:6 METRIC GRID
- 1:3 METRIC GRID
- 1:1.5 METRIC GRID
- 1:0.75 METRIC GRID
- 1:0.375 METRIC GRID
- 1:0.1875 METRIC GRID
- 1:0.09375 METRIC GRID
- 1:0.046875 METRIC GRID
- 1:0.0234375 METRIC GRID
- 1:0.01171875 METRIC GRID
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- 1:0.0029296875 METRIC GRID
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**1981-82 Stream Sed. Survey**

- >100, <200ppm : Any of elements Cu, Pb, Zn
- >200, <300ppm : Element indicated.
- >300ppm : Element indicated.
- Au stream sed. only above variable detection limit. Figures within stream bed anomaly (1965-87) not sampled this survey.
- 1:50,000 contour interval
- 1:25,000 contour interval
- 1:10,000 contour interval
- 1:5,000 contour interval
- 1:2,500 contour interval
- 1:1,250 contour interval
- 1:625 contour interval
- 1:312 contour interval
- 1:156 contour interval
- 1:78 contour interval
- 1:39 contour interval
- 1:19 contour interval
- 1:9 contour interval
- 1:4 contour interval
- 1:2 contour interval
- 1:1 contour interval
- 1:0.5 contour interval
- 1:0.25 contour interval
- 1:0.125 contour interval
- 1:0.0625 contour interval
- 1:0.03125 contour interval
- 1:0.015625 contour interval
- 1:0.0078125 contour interval
- 1:0.00390625 contour interval
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**JUKES PROPRIETARY AREA**  
**GEOLOGY AND ALTERATION**

- Owen Conglomerate & Jukes Breccia
  - Unconformity
  - MT. READ VOLCANICS**
  - "Eastern Sequence": Quartz grit, gritty volcanoclastic Conglomerate & minor lava. Basal chloritised & mineralised quartz grit.
  - Unconformity
  - "Central sequence" Rhyolitic lavas
  - Sericite + chlorite + ..., Eastern limit of columnar jointing indicated.
  - Massive pink to brown lava with minor chlorite (0-1)
  - Intermediate chloritisation (2)
  - Intense chloritisation (3)
  - Intrusive Quartz Porphyry
  - Bedding attitude
  - Attitude estimated from columnar jointing
  - Cleavage attitude
  - Fault
  - F630 sample location
  - sericite occurrence
  - Barite vein
  - Magnetic vein
  - Area in which magnetic veins occur
- 5 cm
- TRENCHES
  - RIVER CREEK
  - PROMINENT PEAK
  - TRIG STATION
  - BENCH MARK
  - SPOT ELEVATIONS
  - PIT
  - COSTEAN TRENCH
  - ADIT
  - SHAFT (Depth metre)
  - OPEN CUT
  - ALLUVIAL WORKINGS
  - DUMP

749383  
 THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

**JUKES PTY. GRID**  
**GEOLOGY & ALTERATION**

EL 9/66

SCALE 1:5000  
 DATE 4.4.82  
 DRAWN BY M. HUTTON & C. EASTOE  
 DRAFTSMAN S. FREER

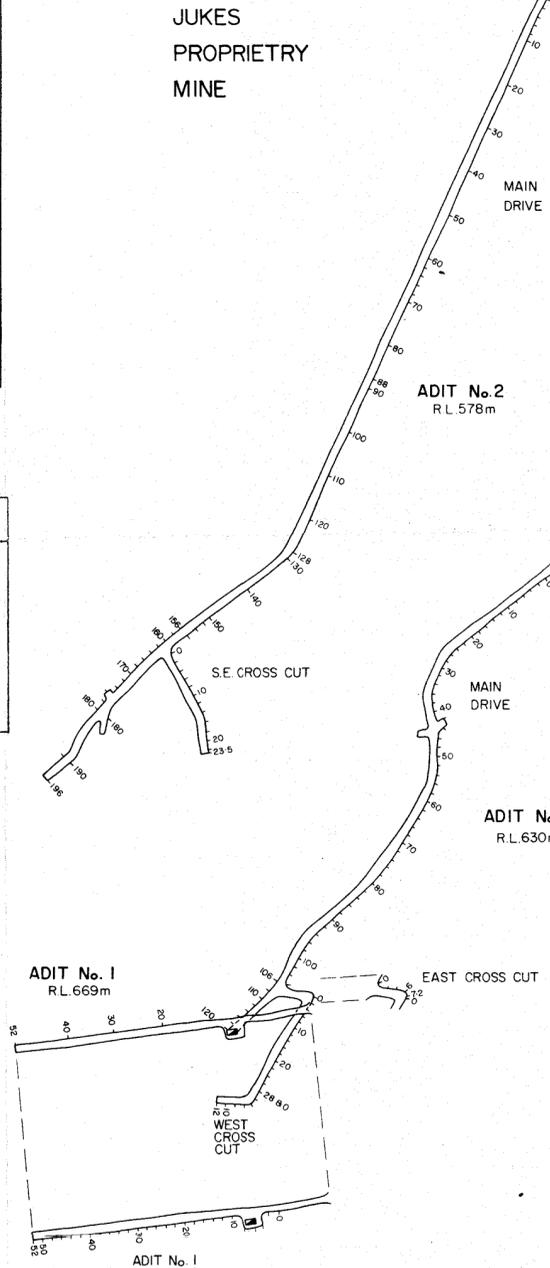
FIG. 64  
 A2-201-4

32-1791 (3/3)

ADIT NO. 2 Main Drive								
m	Cu	Pb	Zn	Ag	S%	Mn	Au	Ag
0-10	960	20	130	-	0.2	300	-	0.2
10-20	830	30	70	-	-	160	-	0.4
20-30	480	30	80	-	0.1	220	-	0.1
30-40	980	30	140	-	1.9	290	-	0.3
40-50	250	10	70	-	0.1	330	-	-
50-60	310	110	80	-	0.4	410	-	0.1
60-62	370	80	80	-	0.5	470	-	0.3
62-64	310	40	120	-	0.9	2200	-	0.4
64-66	760	20	120	-	0.7	1600	-	0.2
66-68	2200	20	110	-	1.1	1700	-	0.6
68-70	900	20	100	-	0.5	1800	-	0.2
70-80	1700	30	100	-	0.5	2100	-	0.3
80-88	320	10	80	-	0.6	2100	-	-
88-90	1750	20	90	-	2.6	2700	-	0.4
90-100	150	20	90	-	0.2	1300	-	-
100-110	470	10	90	-	-	1000	-	-
110-120	300	-	50	-	-	700	-	-
120-130	680	10	100	-	0.2	640	-	0.1
130-140	590	20	80	-	-	500	-	-
140-150	620	20	130	-	0.5	940	-	0.2
150-152	520	20	120	-	0.1	950	-	-
152-154	4800	20	140	-	0.4	780	-	0.3
154-156	800	10	110	-	0.5	610	-	0.2
156-158	1000	40	110	-	0.1	890	-	-
158-160	2.40%	7000	400	35	3.2	3300	1.7	2.9
160-162	1700	20	90	-	0.7	740	-	0.5
162-164	0.54%	20	100	3	1.0	1200	0.3	2.3
164-166	890	30	150	2	0.2	850	-	0.8
166-168	970	30	190	0.2	1300	0.3	-	0.3
168-170	700	10	120	-	0.4	1600	-	0.1
170-172	600	20	120	-	0.1	1150	-	0.1
172-174	1.00%	120	220	12	1.3	22000	3.4	9.0
174-176	4900	40	190	6	2.0	12000	1.1	3.3
176-178	2400	60	220	4	0.4	15000	0.2	1.3
178-180	370	40	180	-	0.7	3600	-	-
180-190	750	20	110	-	0.4	2200	-	-
190-196	830	30	130	-	0.3	1300	-	0.1

S.E. Cross Cut								
m	Cu	Pb	Zn	Ag	S%	Mn	Au	Ag
0-2	2100	70	90	3	1.0	1300	0.3	2.6
2-4	5.68%	1900	3800	55	5.7	1600	2.3	58.0
4-6	1.52%	450	230	12	1.6	860	1.0	9.2
6-8	3900	250	150	4	0.7	1400	0.6	2.0
8-10	3800	250	190	6	0.6	560	0.2	3.6
10-12	0.60%	120	180	4	0.9	1450	0.2	2.5
12-14	4400	230	100	4	0.8	400	-	-
14-16	1100	30	130	-	0.4	950	-	0.3
16-18	1100	10	150	-	0.2	920	-	-
18-20	480	20	130	-	0.2	1100	-	-
20-22	0.56%	-	140	2	0.7	1500	-	0.6
22-23.5	430	-	140	-	0.2	1150	-	-

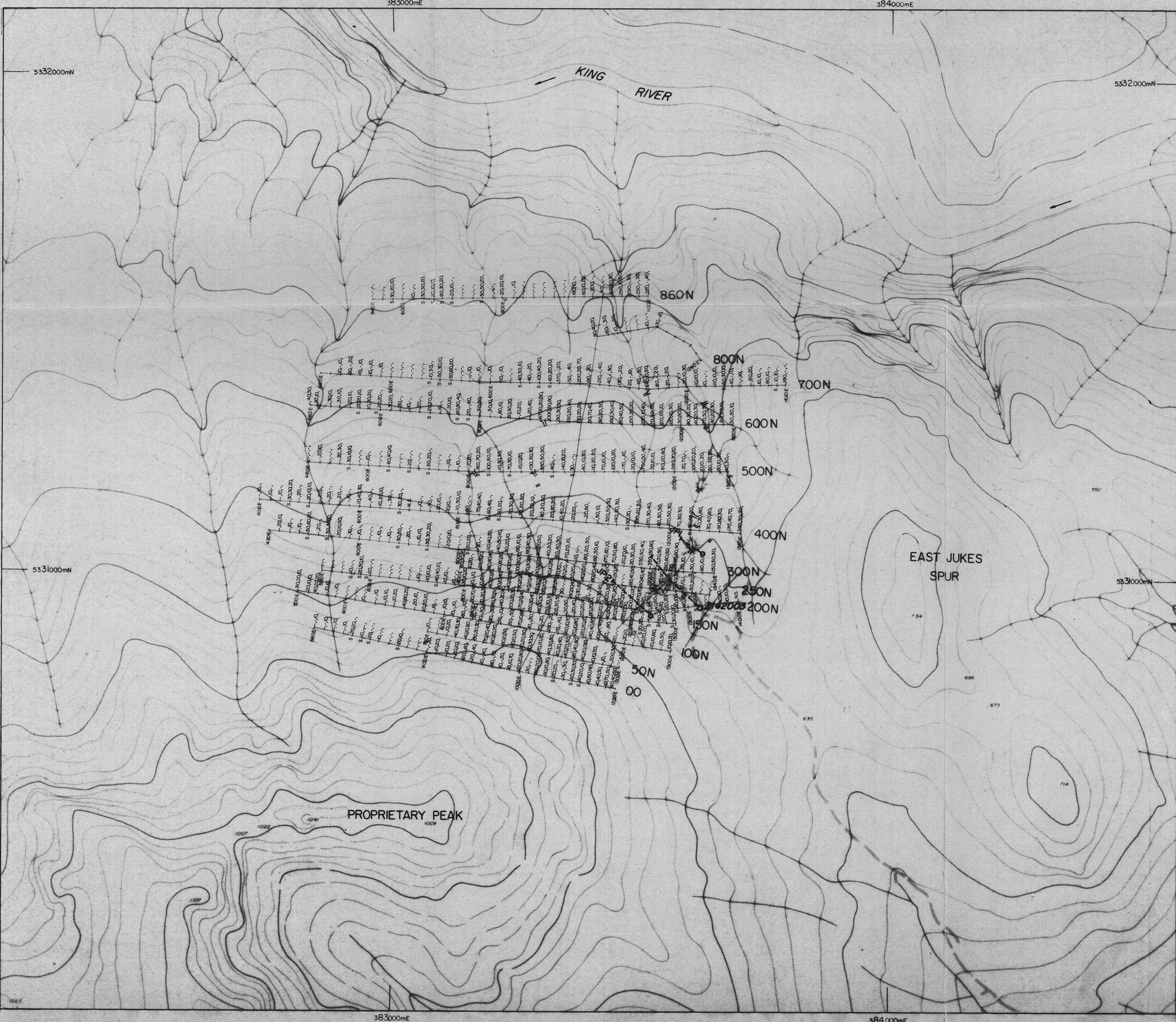
ADIT NO. 1								
m	Cu	Pb	Zn	S%	Mn	Au	Ag	Ag
0-1	0.42%	70	210	0.5	460	0.6	1.7	-
1-2	0.88%	40	150	0.5	420	0.4	4.0	-
2-3	1.10%	50	160	0.4	500	1.5	6.8	-
3-4	0.48%	40	180	0.3	590	0.3	1.8	-
4-5	0.70%	70	200	0.6	620	1.3	3.0	-
5-6	0.92%	80	200	0.8	600	1.1	3.1	-
6-7	0.80%	60	180	0.8	520	0.9	3.1	-
7-8	1.16%	80	230	1.0	650	0.5	4.7	-
8-9	0.22%	50	230	0.9	670	0.5	1.5	-
9-10	0.12%	50	220	0.4	680	-	0.3	-
10-12	0.10%	40	170	0.3	910	-	0.5	-
12-14	820	30	120	0.3	450	-	-	-
14-16	230	20	90	0.1	350	-	-	-
16-18	240	30	90	0.3	370	-	-	-
18-20	330	40	80	0.6	370	-	-	-
20-22	350	110	90	-	340	-	0.2	-
22-24	230	20	90	0.2	610	-	-	-
24-26	240	40	100	-	1150	-	-	-
26-28	1050	30	160	0.2	1500	-	0.2	-
28-30	420	20	60	-	170	-	-	-
30-32	560	20	60	-	160	-	-	-
32-34	130	30	70	-	160	-	-	-
34-36	570	60	90	-	230	-	0.8	-
36-38	250	90	90	-	280	-	0.5	-
38-40	370	60	90	0.3	310	-	0.4	-
40-42	380	50	70	0.2	280	-	0.3	-
42-44	500	50	80	0.2	360	-	0.2	-
44-46	540	100	70	0.1	310	0.2	0.5	-
46-48	990	100	80	0.2	690	-	0.8	-
48-50	730	100	70	0.3	330	-	0.4	-
50-52	200	50	60	-	500	-	0.1	-



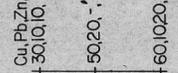
ADIT NO. 3 Main Drive								
m	Cu	Pb	Zn	S%	Mn	Fire Assay Au	Ag	Ag
0.2	2400	60	150	-	250	-	0.5	-
2.4	2400	40	150	0.3	180	-	0.4	-
4.6	2500	30	160	-	300	-	0.4	-
6.8	2600	30	180	0.5	380	-	0.6	-
8-10	2000	30	200	0.6	570	-	0.3	-
10-12	2900	20	170	0.5	650	-	0.3	-
12-14	4000	30	200	0.5	1000	-	0.4	-
14-16	3800	20	200	0.6	770	-	0.3	-
16-18	0.82%	20	180	0.5	570	0.2	0.7	-
18-20	0.6%	20	170	0.2	480	0.1	1.7	-
20-22	3000	30	180	-	500	-	0.8	-
22-24	2500	20	140	0.5	300	0.3	1.1	-
24-26	1.38%	30	220	0.8	530	0.7	4.6	-
26-28	2.70%	50	240	0.5	630	2.0	14.1	-
28-30	0.72%	30	200	0.5	460	0.4	3.6	-
30-32	2800	30	190	0.9	450	0.2	1.7	-
32-34	1.00%	30	240	0.6	630	1.1	3.4	-
34-36	0.80%	30	230	0.4	530	0.5	1.7	-
36-38	0.72%	20	180	0.2	460	0.1	1.5	-
38-40	3000	20	200	0.1	460	-	0.8	-
40-42	1.40%	30	160	0.5	300	0.8	2.7	-
42-44	0.92%	40	100	0.4	220	0.2	1.9	-
44-46	2800	50	80	-	160	0.4	1.8	-
46-48	1700	60	30	-	50	0.3	2.1	-
48-50	0.60%	40	30	0.1	640	0.2	0.7	-
50.52.5	1500	60	40	0.4	2400	-	-	-
52.5.54	330	150	30	-	410	-	0.2	-
54-56	170	360	30	-	400	2.0	1.0	-
56-58	620	100	30	-	520	-	0.1	-
58-60	100	80	20	-	250	-	-	-
60-62	30	160	20	-	600	0.2	0.2	-
62-64	380	350	40	-	1100	-	-	-
64-66	90	230	30	-	900	-	0.1	-
66-68	80	110	40	-	1100	-	-	-
68-70	90	100	30	-	1500	-	0.1	-
70-72	NOT ASSAYED							
72-74	50	20	20	-	1800	-	-	-
74-76	350	60	50	-	1300	0.1	0.5	-
76-78	900	120	80	0.2	780	-	0.7	-
78-80	300	150	60	0.4	430	-	2.0	-
80-82	0.74%	180	80	0.4	5400	0.1	2.3	-
82-84	1.10%	900	570	1.2	5400	0.3	13.5	-
84-86	0.72%	70	130	0.9	7000	0.1	1.6	-
86-88	0.98%	50	90	0.8	8400	0.4	1.7	-
88-90	1.88%	40	100	1.6	11800	0.4	3.1	-
90-92	0.82%	40	110	1.2	8400	0.3	1.3	-
92-94	1.10%	40	160	0.9	1700	0.2	1.7	-
94-96	4100	50	200	0.6	840	0.2	1.3	-
96-98	0.92%	60	200	0.7	1500	0.3	3.2	-
98-100	0.80%	60	210	0.3	700	0.4	3.6	-
100-102	3200%	50	200	0.5	960	0.4	1.2	-
102-104	1.10%	50	190	1.1	2000	0.8	3.6	-
104-106	1.28%	60	220	1.4	1800	0.5	3.9	-
106-108	1.54%	90	210	1.7	2500	4.6	7.0	-
108-110	1.28%	80	210	1.0	3800	0.7	4.1	-
110-112	0.78%	60	210	1.0	1800	0.5	1.6	-
112-114	3600	60	250	0.3	3000	0.1	1.1	-
114-116	0.90%	70	210	1.0	880	1.3	3.0	-
116-118	1700	40	220	0.2	900	-	0.3	-
180-120	900	30	170	-	850	-	0.2	-

EAST CROSS CUT								
m	Cu	Pb	Zn	S%	Mn	Au	Ag	Ag
0-2	1.47%	20	190	1.3	4200	0.6	2.6	-
2-4	1.04%	20	170	0.9	4000	0.7	2.1	-
4-6	1.06%	30	100	1.1	7000	1.6	3.0	-
6-7	2.11%	110	130	1.9	7600	0.9	5.9	-

WEST WALL HANGING WALL DRIVE								
m	Cu	Pb	Zn	S%	Mn	Au	Ag	Ag
0-2	NOT ASSAYED							
2-4	0.96%	60	110	1.1	6800	0.2	2.3	-
4-6	3.76%	100	180	3.7	7800	5.0	11.4	-
6-8	1.85%	140	210	1.4	8600	2.2	6.7	-
8-10	1.34%	70	270	1.2	5200	0.3	2.9	-
10-12	0.76%	60	200	0.6	4500	0.3	1.4	-
12-14	0.82%	70	200	1.0	800	1.3	2.5	-
14-16	1.30%	50	190	1.3	5200	1.3	2.6	-
16-18	1.76%	40	130	1.7	7400	0.2	3.9	-
18-20	1.82%	50	130	1.7	7600	0.9	4.6	-
20-27	1.22%	50	180	1.2	6800	0.4	2.0	-
22-24	2700	40	200	0.4	4600	-	0.5	-
24-25.4	0.80%	60	140	0.8				



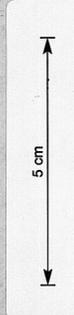
GEOCHEMISTRY



S = SOIL SAMPLE  
 ALL OTHERS ROCK CHIP SAMPLES  
 VALUES IN PPM

749385

- = TRENCHES
- RIVER CREEK
- △ PROMINENT PEAK
- △ TRIG STATION
- BENCH MARK
- SPOT ELEVATIONS
- PIT
- COSTEAN TRENCH
- ≡ ADIT
- ⊞ SHAFT (Depth metre)
- ⊖ OPEN CUT
- ⊞ ALLUVIAL WORKINGS
- ⊞ DUMP



THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

EL 9/166

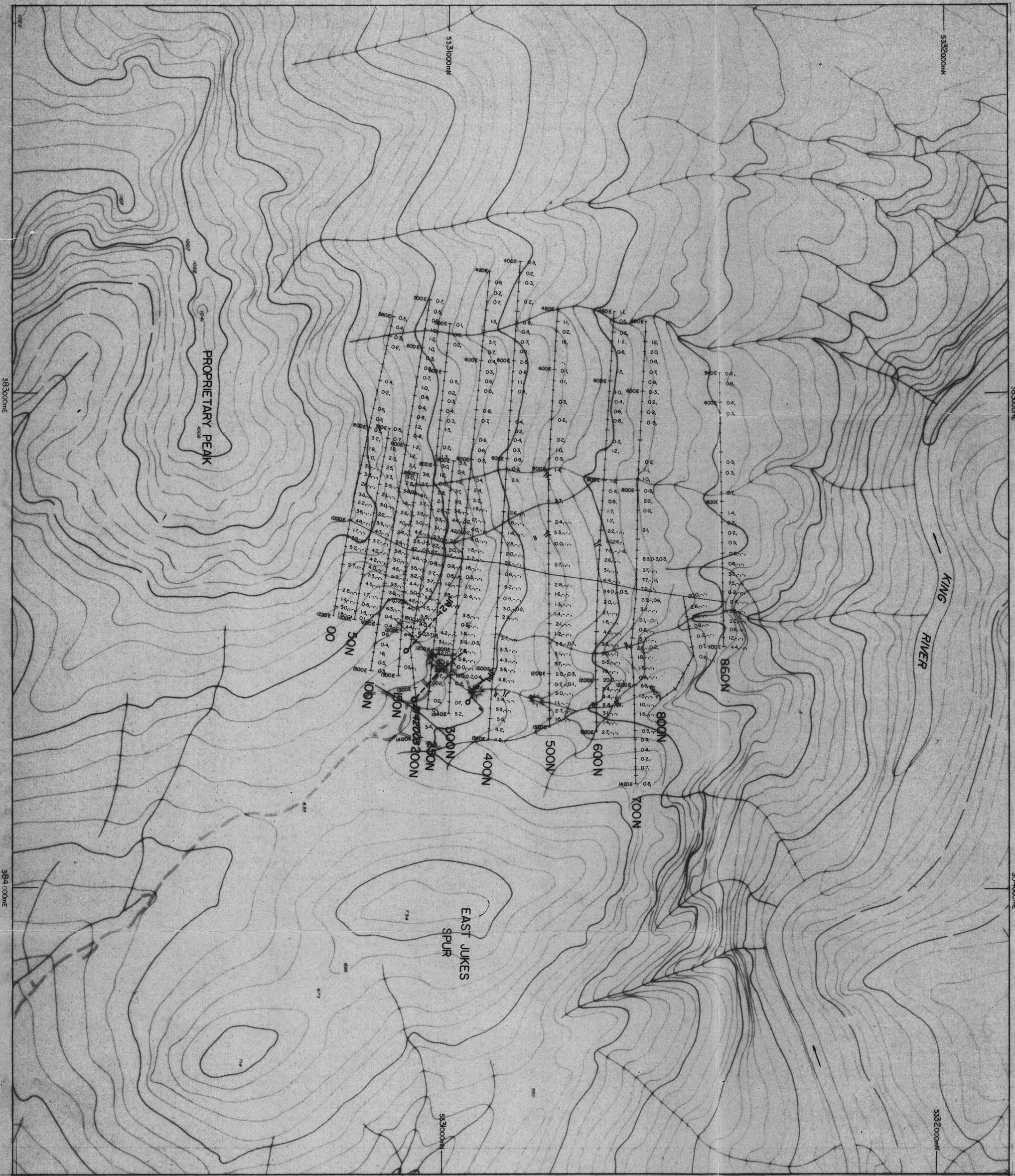
JUKES PTY. GRID  
 ROCK CHIP &  
 SOIL GEOCHEMISTRY  
 Cu,Pb,Zn

FIG. 66  
 A2-201-6

SCALE 1:5000  
 DATE 14-4-82

DRAWN BY M.HUTTON  
 DRAFTSMAN S.FREER

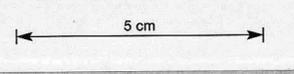
82-1791 (3/3)



GEOCHEMISTRY  
 Fe, Ag, Au  
 70, 20, 10  
 70, 20, 20  
 70, 20, 20

ALL ROCK CHIP SAMPLES  
 Fe IN % - AAS  
 Ag, Au IN G/T - FIRE ASSAY

- 749386
- TRENCHES
- RIVER CREEK
- PROMINENT PEAK
- TRIG STATION
- BENCH MARK
- SPOT ELEVATIONS
- PIT
- COSTEAN TRENCH
- ADIT
- SHAFT (Depth metre)
- OPEN CUT
- ALLUVIAL WORKINGS
- DUMP



THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.  
 EL 9/66  
 JUKES PTY GRID  
 ROCK CHIP GEOCHEMISTRY  
 Fe, Ag, Au  
 (FIRE ASSAY)

SCALE 1:5000  
 DATE 14-9-82  
 DRAWN BY M. HUTTON  
 CHECKED BY S. FREER  
 FIG. 67  
 A2-201-5

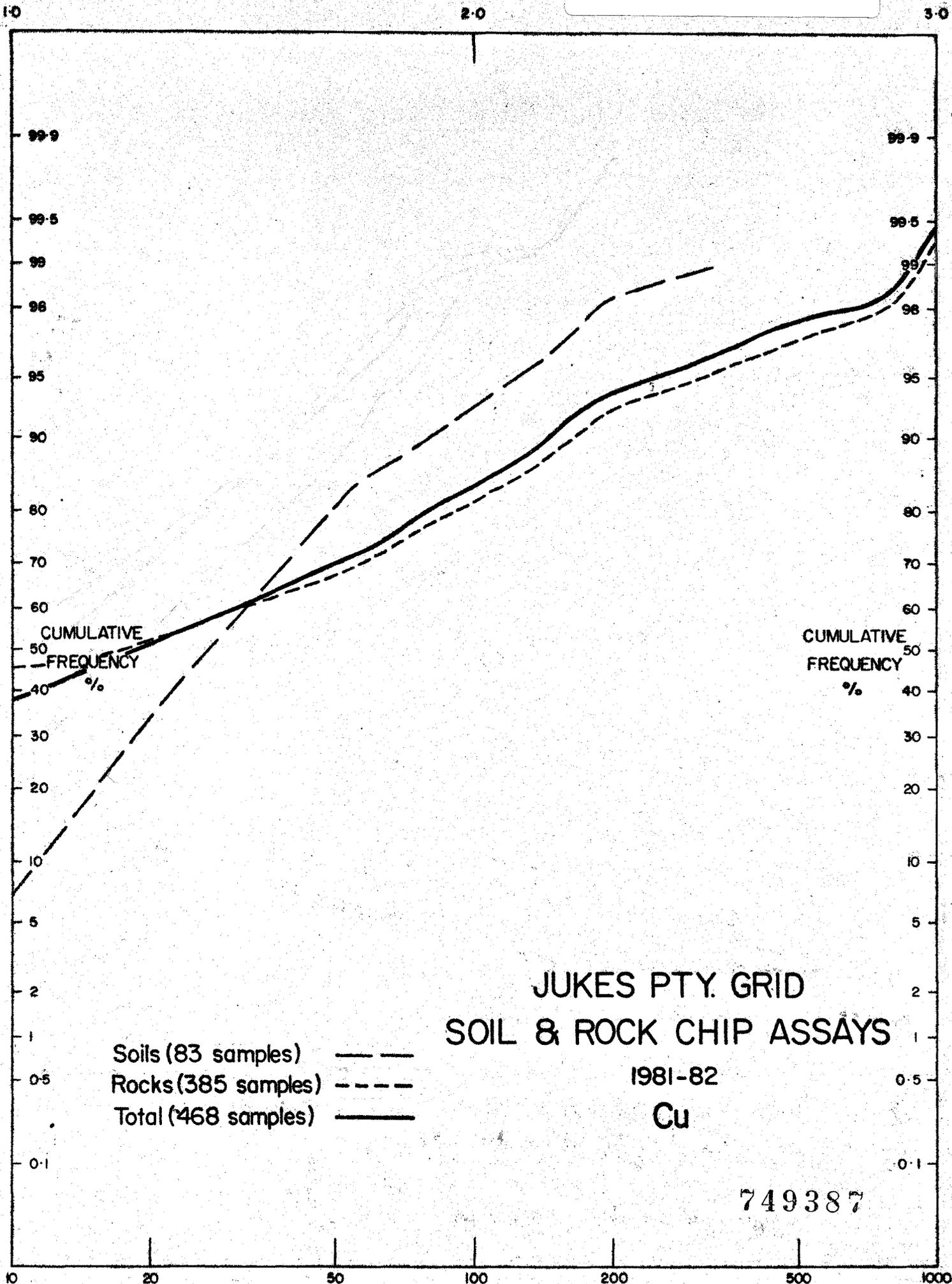
82-1791 (3)3

Log Cu ppm

5 cm

2.0

3.0



82-1791 (3/3)

Cu ppm

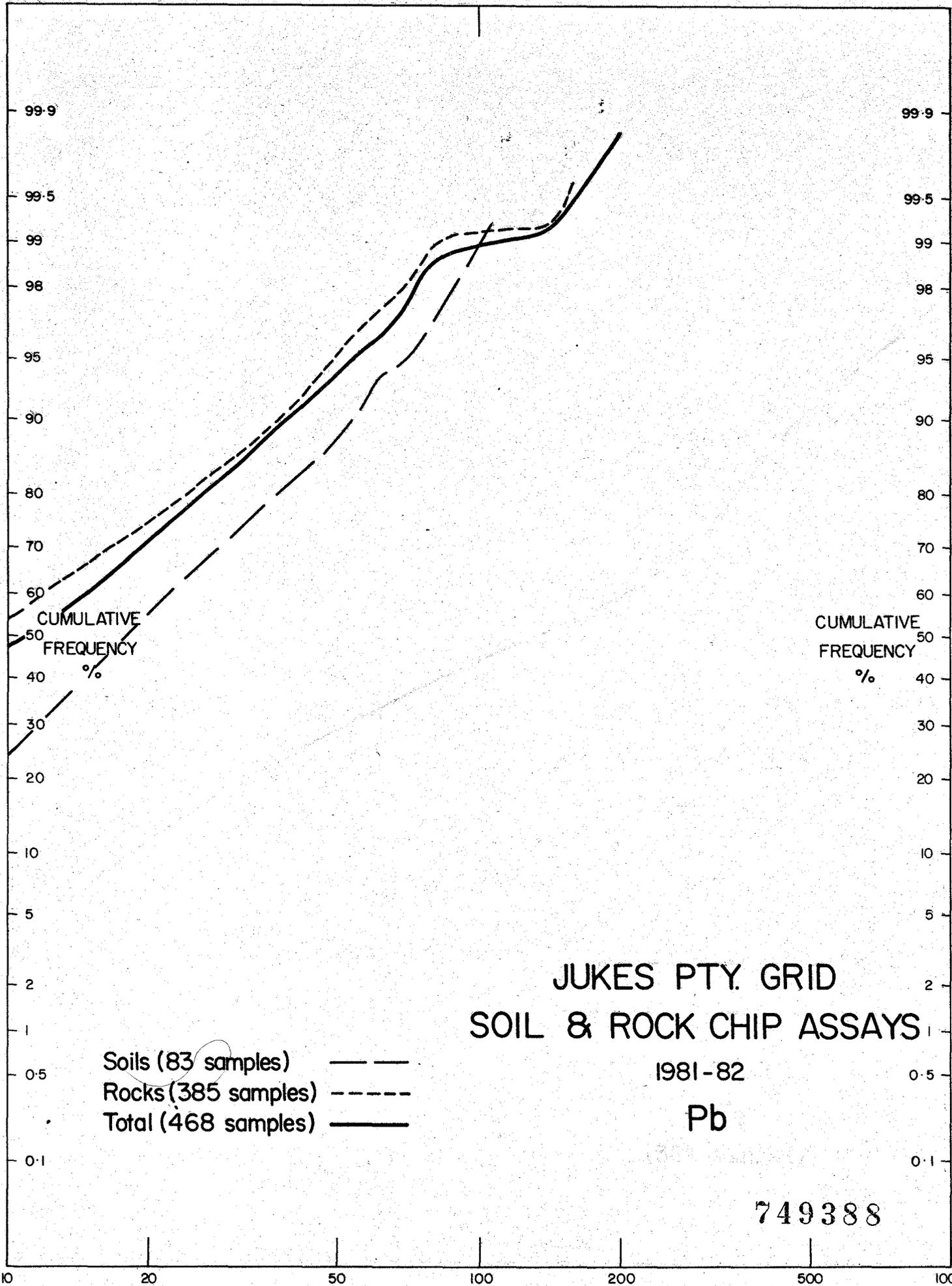
FIG.68  
A4-163-11

Log Pb ppm

1.0

2.0

3.0



CUMULATIVE FREQUENCY %

CUMULATIVE FREQUENCY %

### JUKES PTY. GRID SOIL & ROCK CHIP ASSAYS

1981-82

Pb

Soils (83 samples) ———  
 Rocks (385 samples) - - - -  
 Total (468 samples) ———

749388

Pb ppm

82-1791 (3/3)

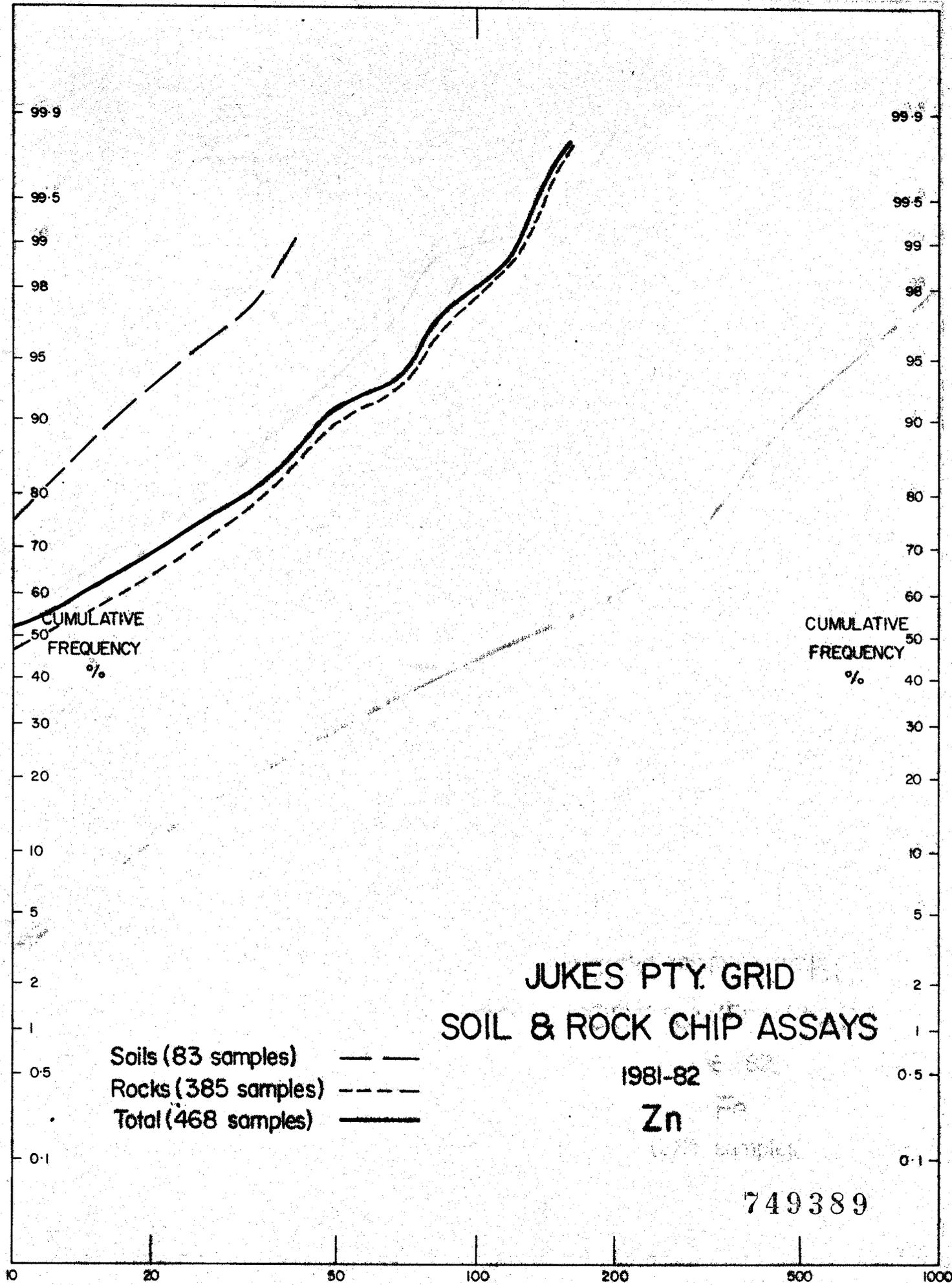
FIG.69  
A4-163-12

Log Zn ppm

2.0

1.0

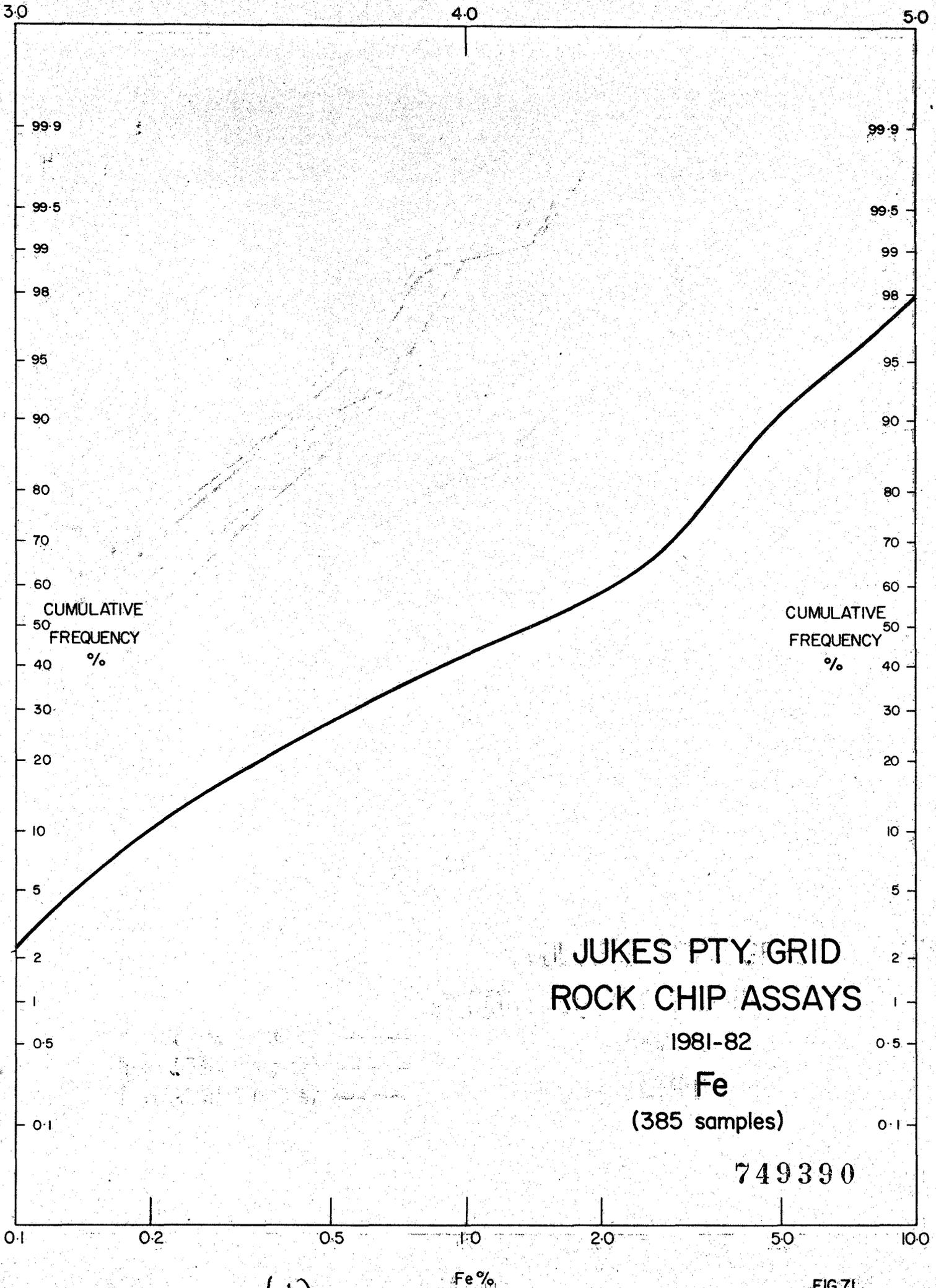
3.0



82-1791 (3/3)

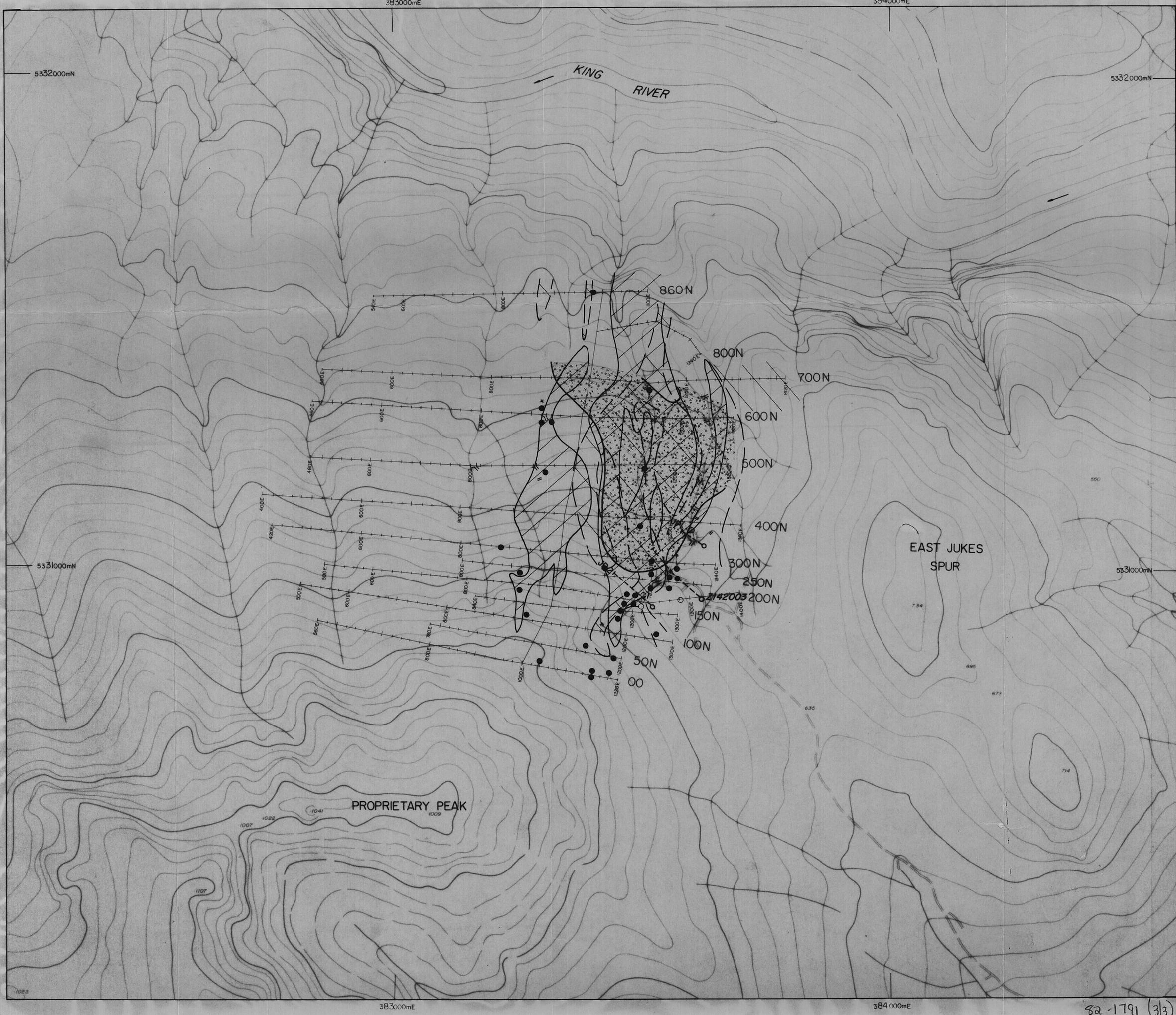
FIG 70  
A4-163-13

Log Feppm



82-1791 (3/3)

FIG. 71  
A4-163-10



**GEOPHYSICS**

GROUND MAGNETICS 1981-82

-  TOTAL FIELD > 63400  $\gamma$
-  GRADIENT ARRAY I.P. 1981-82
-  CHARGEABILITY > 20mV/V
-  RESISTIVITY < 5000 ohm-m

**GEOCHEMISTRY**

ROCK CHIPS 1981-82 ASSAYS

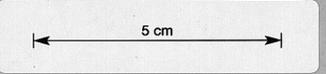
-  Ag > 2ppm / Au > 0.2ppm
- Zn > 100ppm
- Pb > 100ppm
- Cu > 400ppm

SOILS 1981-82 ASSAYS

-  Zn > 50ppm
- Pb > 100ppm
- Cu > 200ppm

**DRILLING**

-  DIAMOND DRILL HOLE



-  TRENCHES
-  RIVER, CREEK
-  PROMINENT PEAK
-  TRIG STATION
-  BENCH MARK
-  SPOT ELEVATIONS
-  PIT
-  COSTEAN TRENCH
-  ADIT
-  SHAFT (Depth metre)
-  OPEN CUT
-  ALLUVIAL WORKINGS
-  DUMP

749391

THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

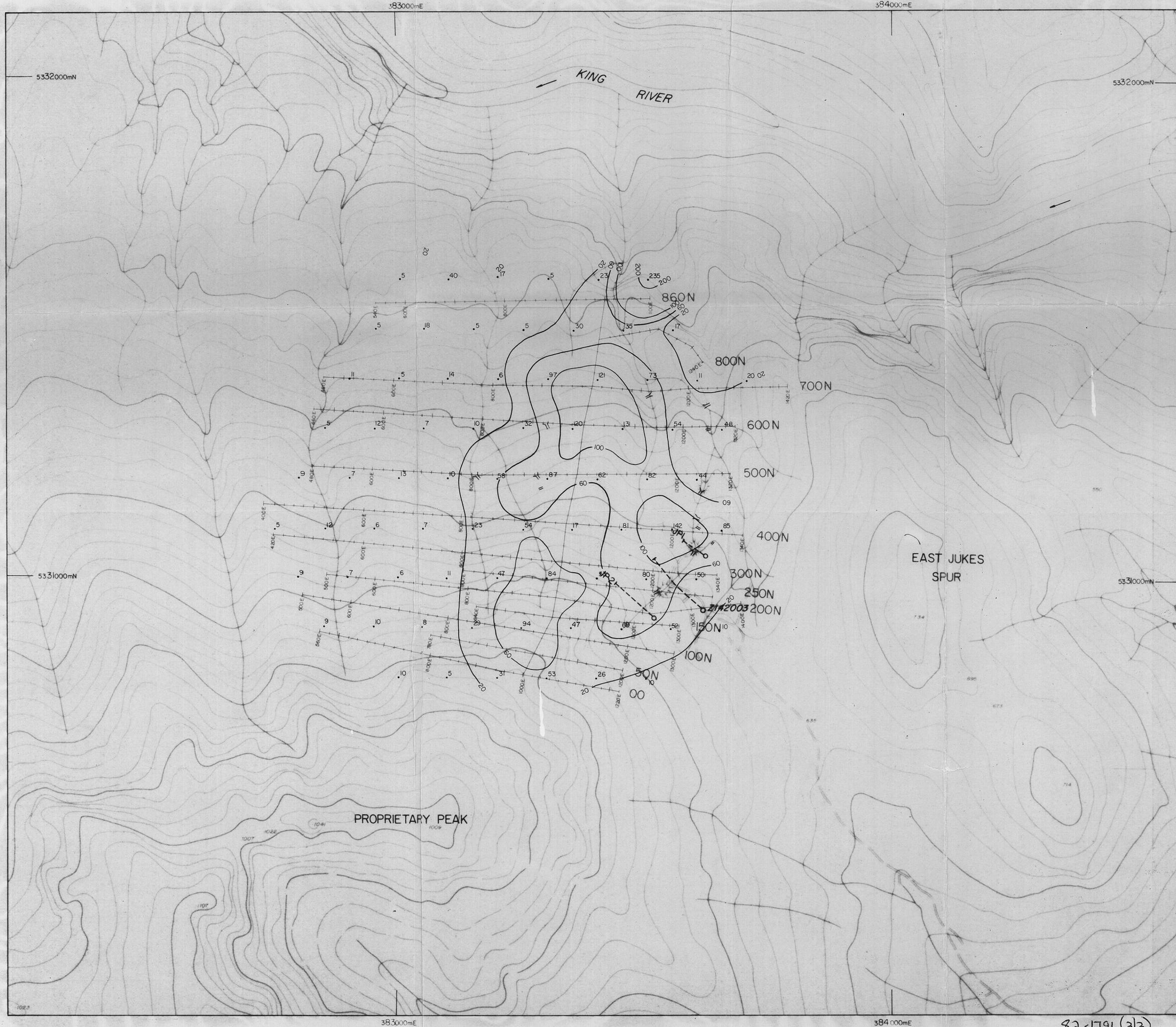
**JUKES PTY. GRID**

ANOMALY COMPILATION  
1981-82

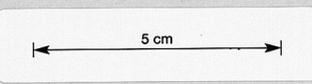
FIG. 72  
A2-201-3

SCALE 1:5000  
DATE 14-4-82  
DRAWN BY M.HUTTON  
DRAFTSMAN'S FREER

82-1791 (3/3)



**GEOCHEMISTRY**  
 AREA DIVIDED INTO DIAMOND SHAPED  
 BLOCKS - 400m N-S, 200m E-W AXES  
 ARITHMETIC MEAN, WITH Cu ppm PLOTTED  
 AT AXES



- = TRENCHES
  - RIVER CREEK
  - △ PROMINENT PEAK
  - △ TRIG STATION
  - ⊙ BENCH MARK
  - SPOT ELEVATIONS
  - PIT
  - ≡ COSTEAN TRENCH
  - ≡ ADIT
  - ⊠ SHAFT (Depth metre)
  - ⊙ OPEN CUT
  - ⊠ ALLUVIAL WORKINGS
  - ⊠ DUMP
- 749392

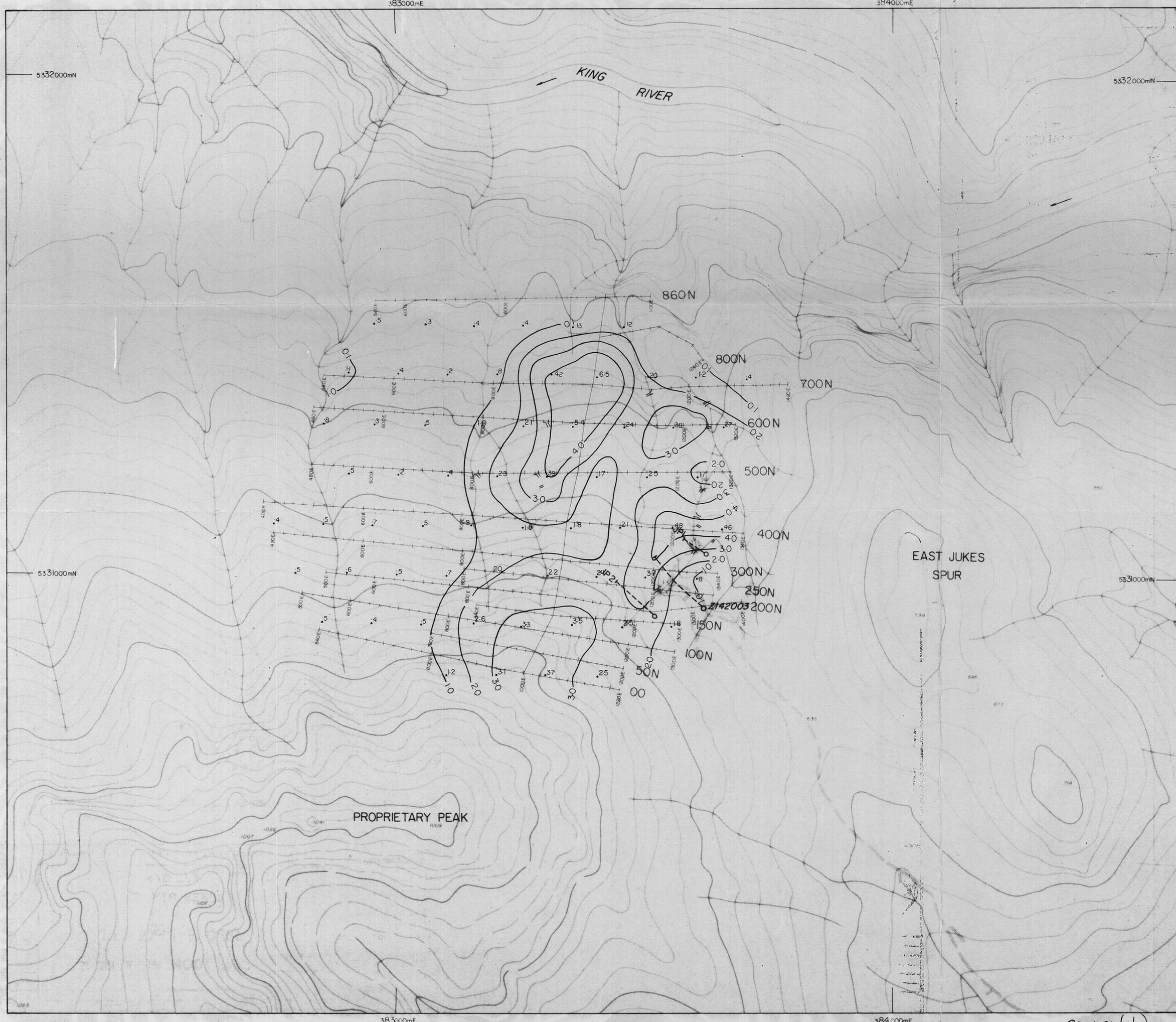
THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

**JUKES PTY. GRID**  
 SOIL & ROCK CHIP GEOCHEMISTRY  
 1981-82 ASSAYS  
 BLOCK AVERAGES  
 Cu

SCALE 1:5000  
 DATE 14-4-82  
 DRAWN BY M. HUTTON  
 DRAFTSMAN S. FREER

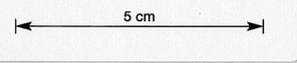
FIG. 73  
 A2-201-1

82-1791 (3/3)



**GEOCHEMISTRY**  
 AREA DIVIDED INTO DIAMOND SHAPED BLOCKS.  
 - 400m N-S, 200m E-W AXES.  
 ARITHMETIC MEAN WITH Fe% PLOTTED AT AXES.

749393



- = TRENCHES
- RIVER CREEK
- △ PROMINENT PEAK
- △ TRIG STATION
- ⊙ BENCH MARK
- 231 SPOT ELEVATIONS
- PIT
- COSTEAN. TRENCH
- ≡ ADIT
- ⊠ 33 SHAFT (Depth metre)
- ⊙ OPEN CUT
- ⊗ ALLUVIAL WORKINGS
- ⊠ DUMP

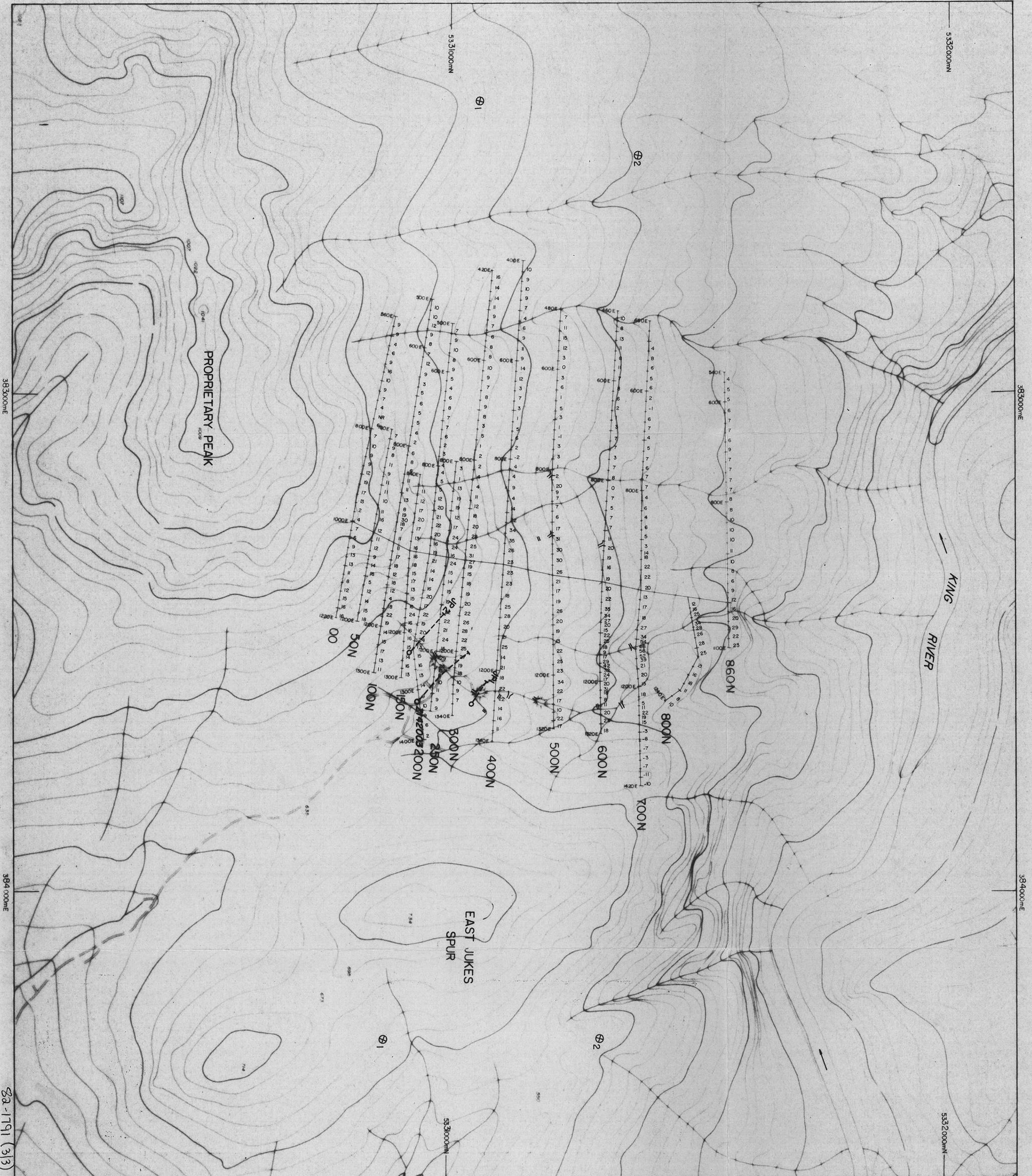
THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

**JUKES PTY. GRID**  
**ROCK CHIP GEOCHEMISTRY**  
 1981-82 ASSAYS  
 BLOCK AVERAGES  
 Fe%

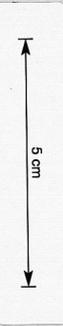
FIG. 74  
 A2-201-2

SCALE 1:5000 DRAWN BY M. HUTTON  
 DATE 14-4-82 DRAFTSMAN S. FREER

82-1791 (3/3)



**CHARGEABILITY**  
 TRANSMITTER: SCINTREX 25/3 KW TIME DOMAIN  
 I.P. TRANSMITTER  
 RECEIVERS: SCINTREX IPR-8 RECEIVERS  
 CYCLE: ALTERNATING SQUARE WAVE 8  
 SECONDS PER CYCLE (2 SECS ON-  
 2 OFF- 2 ON, REVERSE POLARITY-  
 2 OFF)  
 RECEIVER DIPOLE: 20m  
 STATION INTERVAL: 20m, PLUS SOME INTERMEDIATE  
 STATIONS  
 PLOTTING POINT: MID-POINT OF RECEIVER DIPOLE  
 SURVEY DATES: 5TH, 6TH, 7TH & 10TH, FEB., 1982

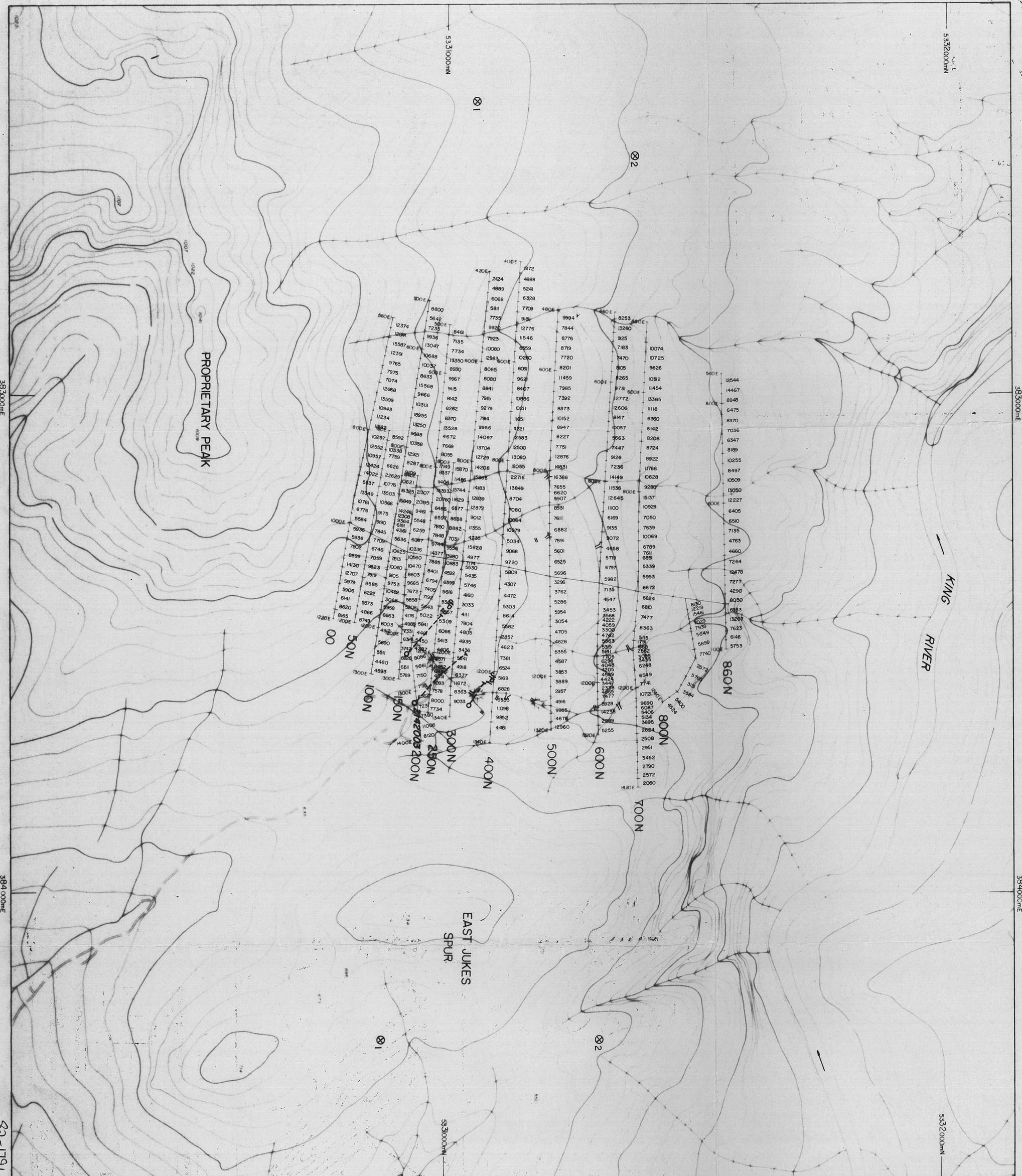


- TRENCHES
- RIVER CREEK
- △ PROMINENT PEAK
- △ TRIG STATION
- ⊙ BENCH MARK
- SPOT ELEVATIONS
- PIT
- COSTEAN TRENCH
- ≡ ADIT
- ⊠ SHAFT (Depth metre)
- ⊖ OPEN CUT
- ⊗ ALLUVIAL WORKINGS
- ⊞ DUMP

THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

**JUKES PTY GRID  
 GRADIENT ARRAY I.P.  
 CHARGEABILITY**

SCALE 1:5000  
 DATE 18.4.82  
 DRAWN BY M. HUTTON  
 CHECKED BY S. FIEBER  
 FIG. 75  
 A2-201-9

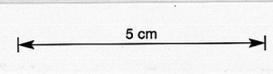


**RESISTIVITY**

TRANSMITTER : SCINTREX 25/3 KW TIME DOMAIN  
 IP TRANSMITTER  
 RECEIVERS : SCINTREX IPR9 RECEIVERS  
 CYCLE : ALTERNATING SQUARE WAVE, 8  
 SECONDS PER CYCLE (2 SECS ON-  
 2 OFF-2 ON, REVERSE POLARITY-  
 2 OFF)

RECEIVER DIPOLE : 20 m  
 STATION INTERVAL : 20m, PLUS SOME INTERMEDIATE  
 STATIONS  
 PLOTTING POINT : MID-POINT OF RECEIVER DIPOLE  
 SURVEY DATES : 5TH, 6TH, 7TH, 8, 10TH FEB, 1982

- 749395
- △ TRENCHES
  - RIVER CREEK
  - ▲ PROMINENT PEAK
  - ▽ TRIG STATION
  - BENCH MARK
  - SPOT ELEVATIONS
  - PIT
  - COSTEAN TRENCH
  - ADIT
  - SHAFT (Depth in metres)
  - OPEN CUT
  - ⊗ ALLUVIAL WORKINGS
  - ⊗ DUMP



THE MOUNT LYELL MINING & RAILWAY COMPANY LTD

**JUKES PTY. GRID**

**GRADIENT ARRAY I.P.**

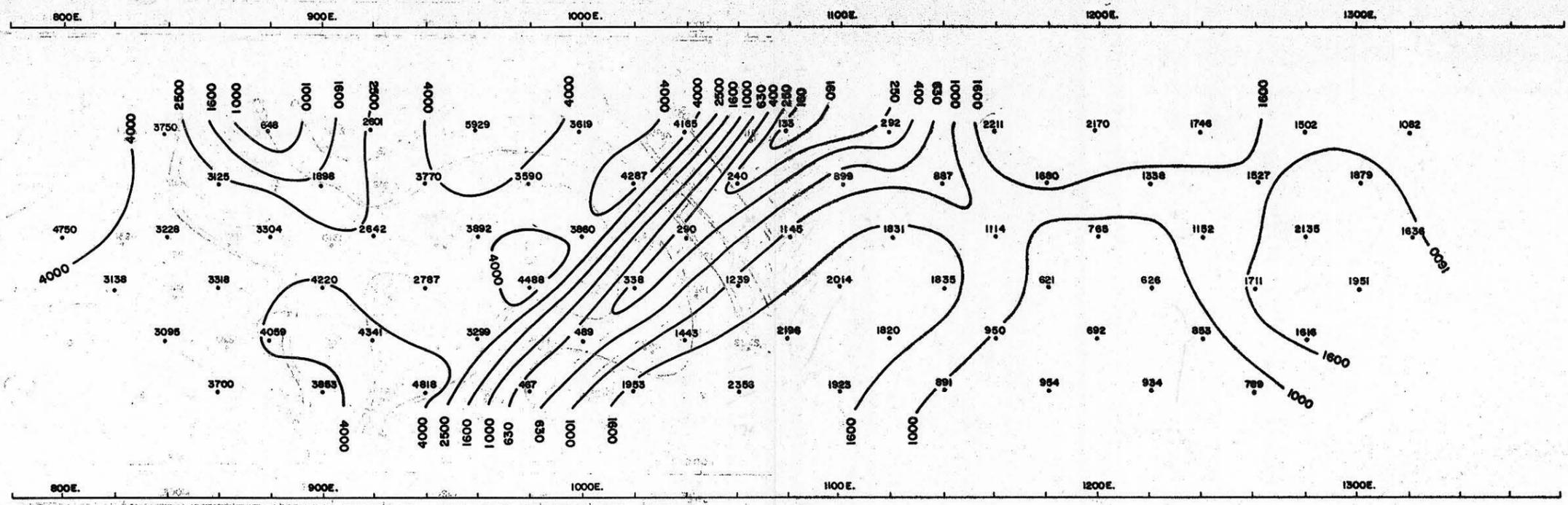
**RESISTIVITY**

SCALE 1:5000  
 DATE 14-4-82  
 DRAWN BY M. HUTTON  
 CHECKED BY S. FREER

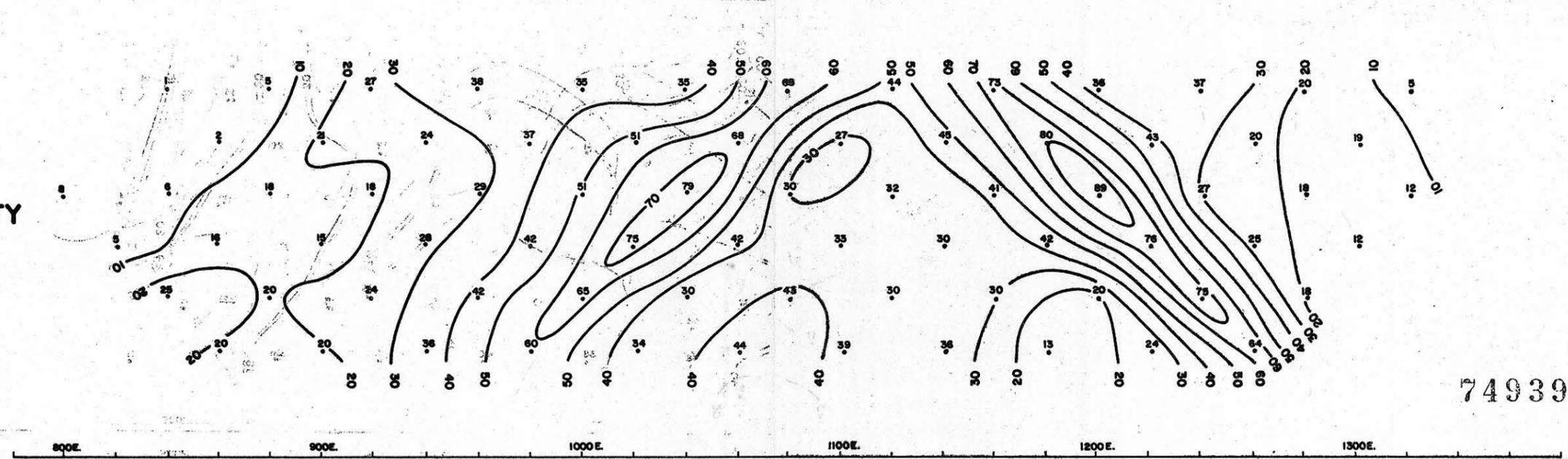
FIG. 76  
 A2-20-8

82-1791 (313)

**RESISTIVITY**  
ohm-metres

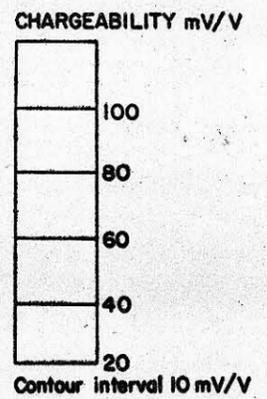
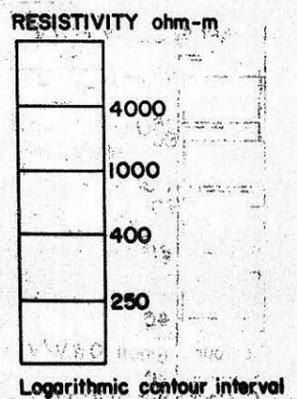
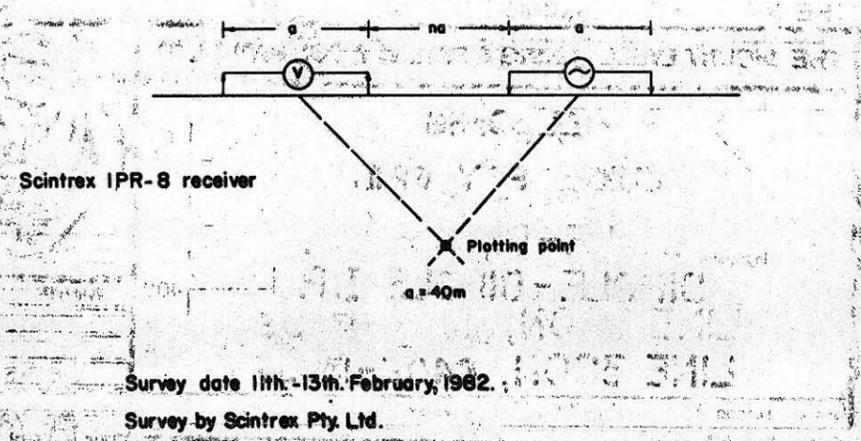


**CHARGEABILITY**  
mV/V



749396

5 cm



THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

E.L. 9/66  
JUKES PTY. GRID

DIPOLE - DIPOLE I.P.

LINE 700N, 800E-1320E

SCALE 1:2000	DRAWN BY M.H.
DATE JUNE 1962	DRAFTSMAN T.S.S.

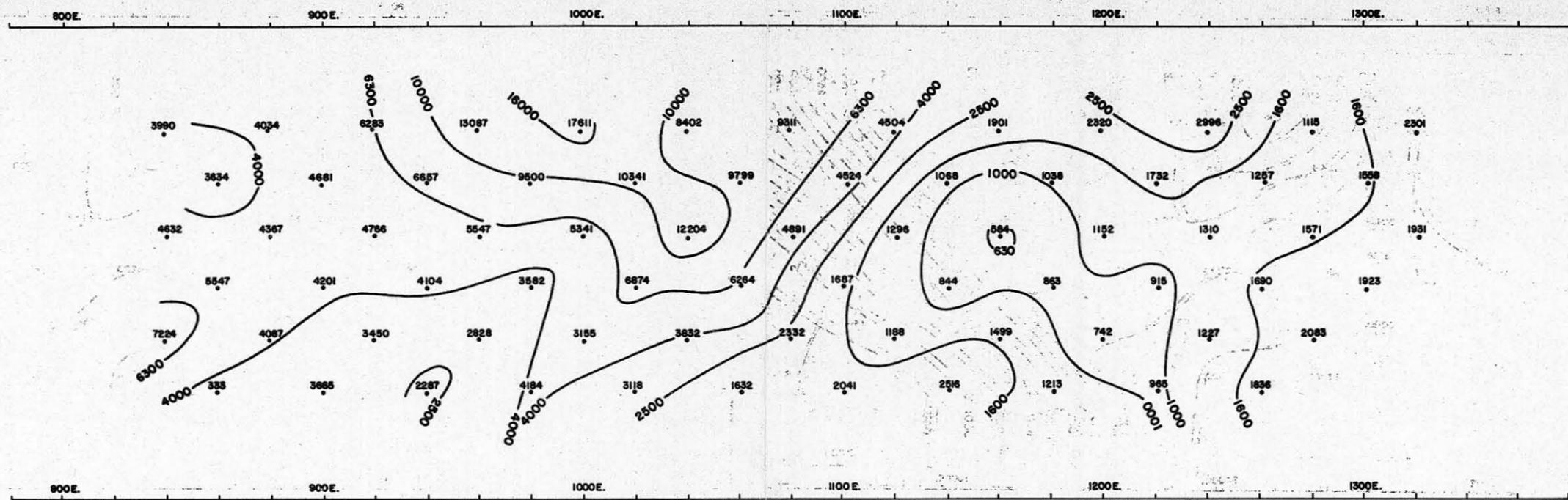


REVISIONS:


FIG. 77

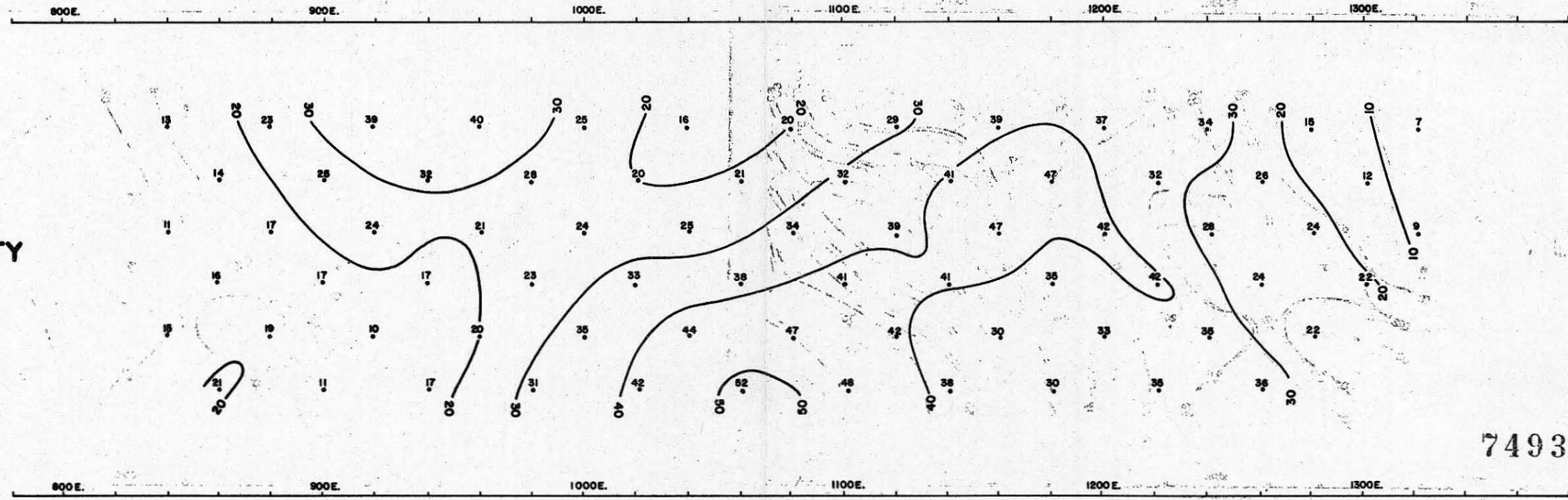
A3-217

82-1791(3/3)



n=1  
n=2  
n=3  
n=4  
n=5  
n=6

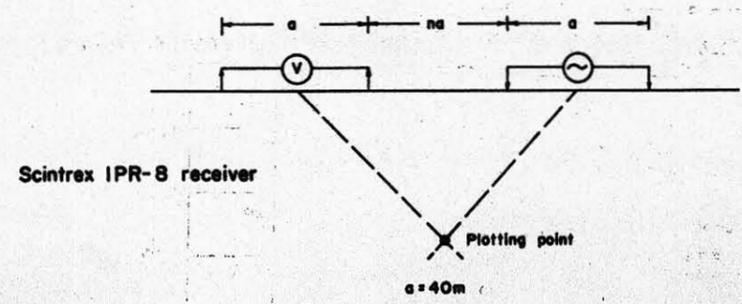
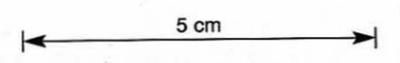
**RESISTIVITY**  
ohm-metres



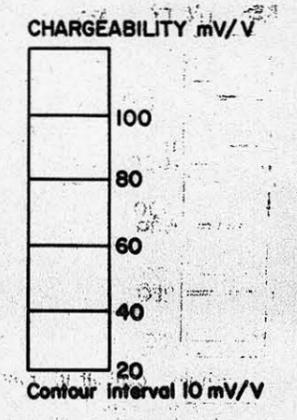
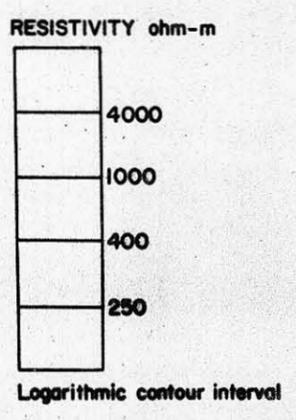
n=1  
n=2  
n=3  
n=4  
n=5  
n=6

**CHARGEABILITY**  
mV/V

749397



Scintrex IPR-8 receiver  
Survey date 14th February 1982  
Survey by Scintrex Pty. Ltd.



THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

E.L. 9/66  
JUKES PTY. GRID

DIPOLE-DIPOLE I.P.

LINE 300N, 840E-1320E

SCALE 1:2000  
DATE 14 Feb 1982

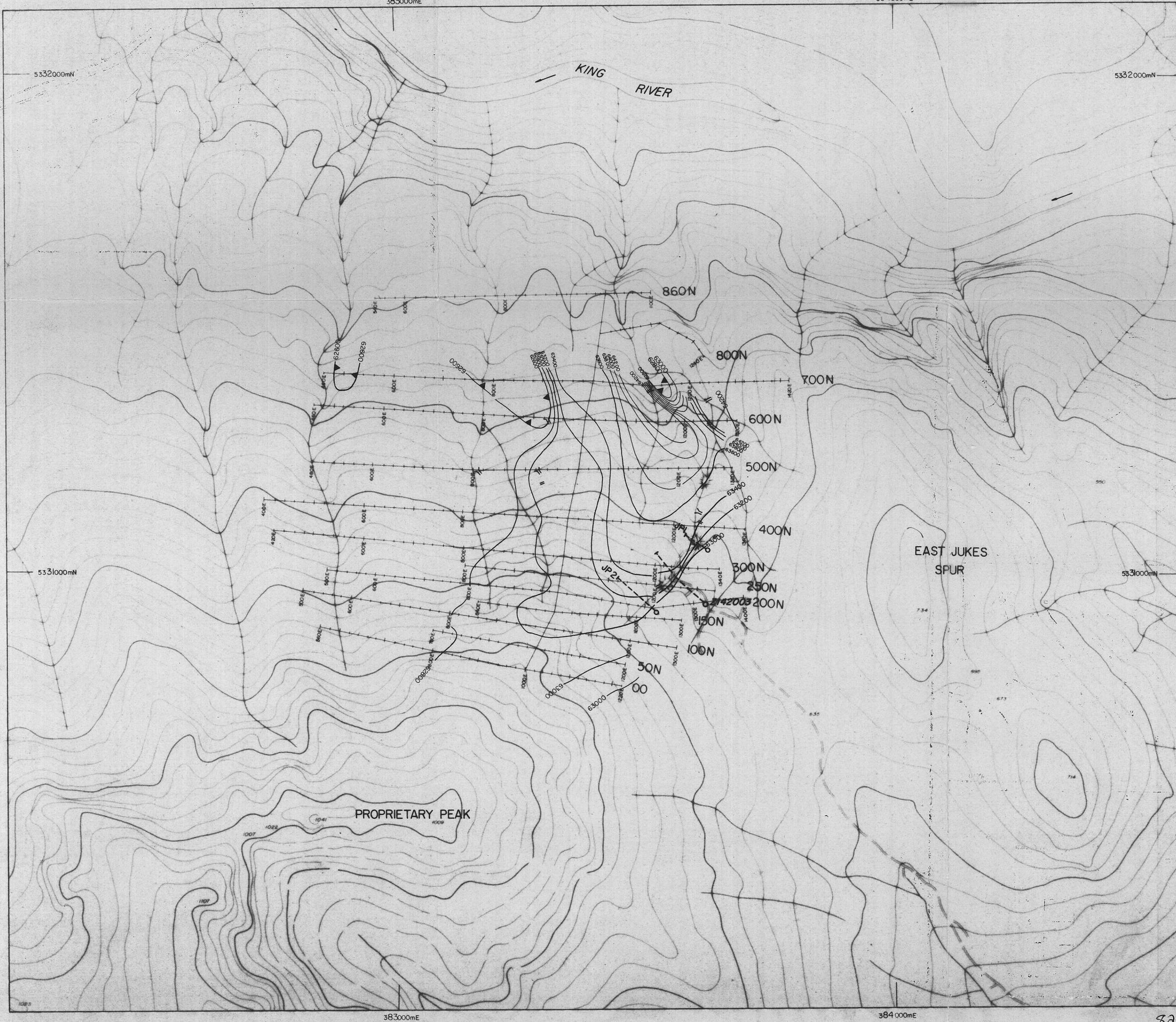
DRAWN BY B.N.  
DRAFTSMAN T.B.S.

REVISIONS

FIG 78

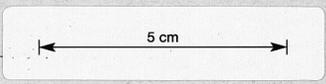
A3-218

82-1791 (3/3)



GROUND MAGNETICS  
 SURVEY BY SCINTREX  
 SURVEY DATE: FEBRUARY, 1982  
 INSTRUMENTS: SCINTREX MP-2 PROTON  
 PRECESSION MAGNETOMETERS  
 BASE STATION: A.M.G. CO-ORDINATES  
 - 5330820 N, 383720E  
 DESIGNATED BASE VALUE -  
 62751 GAMMAS

749398

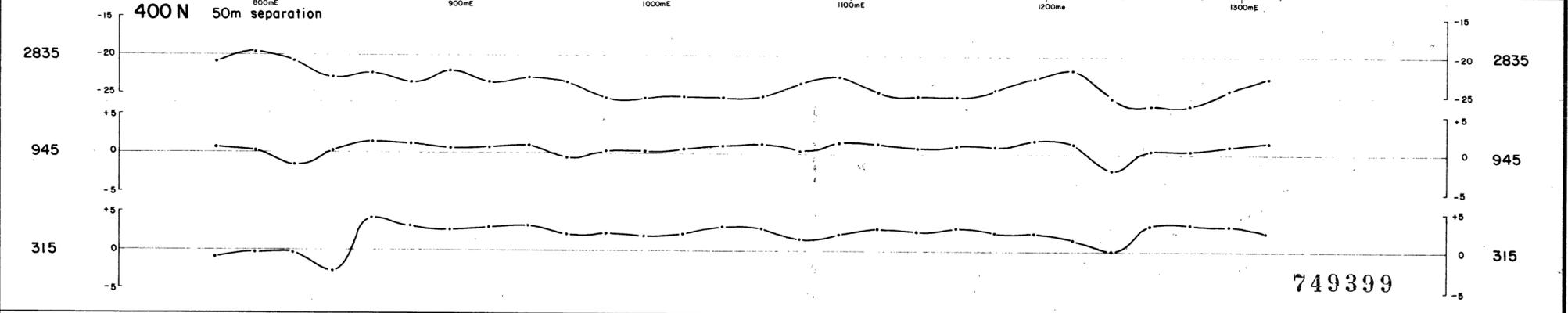
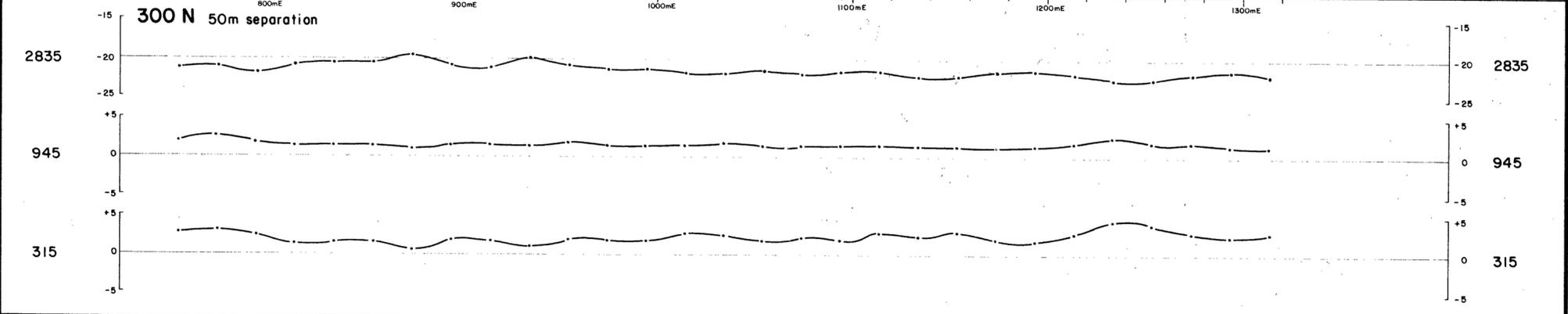
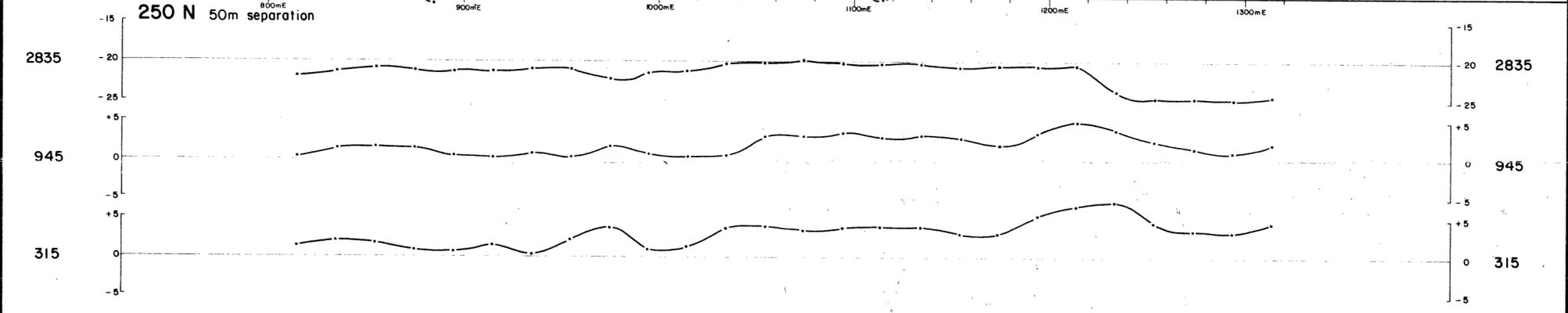
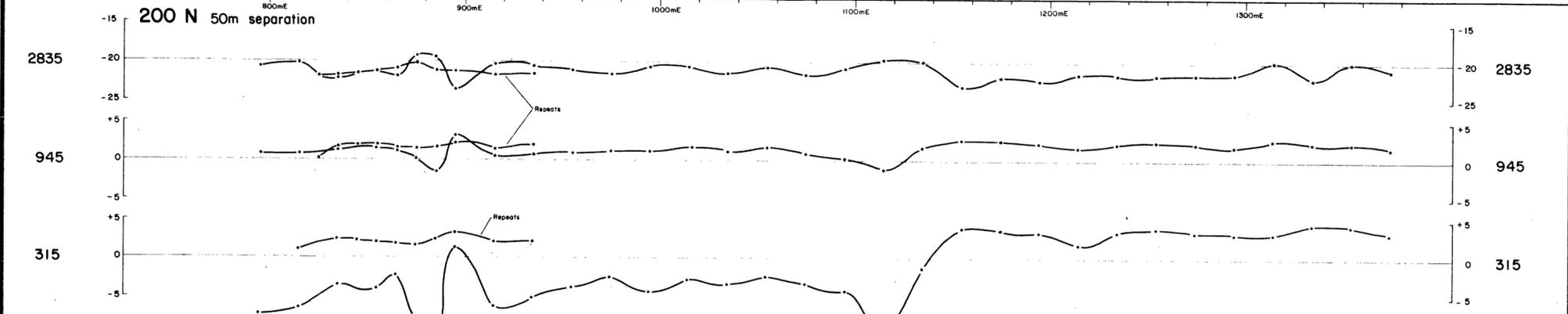
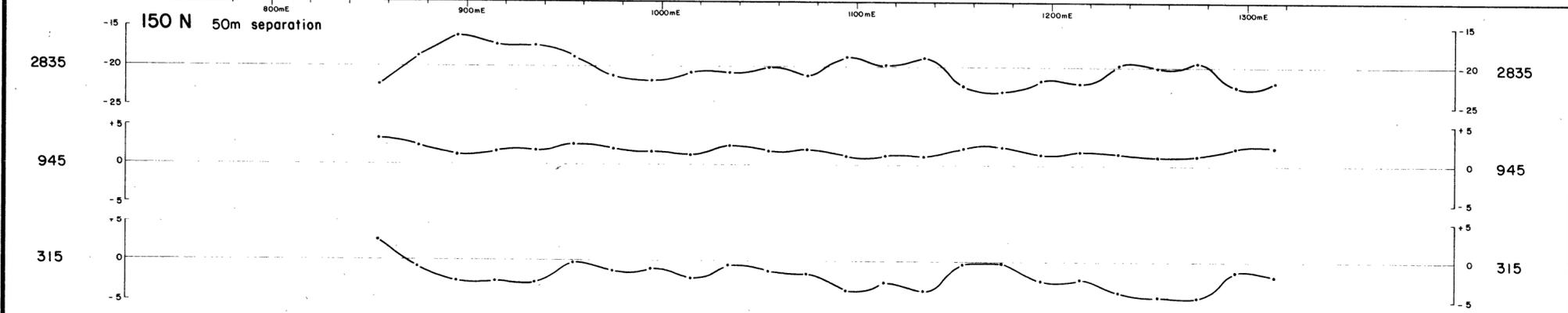
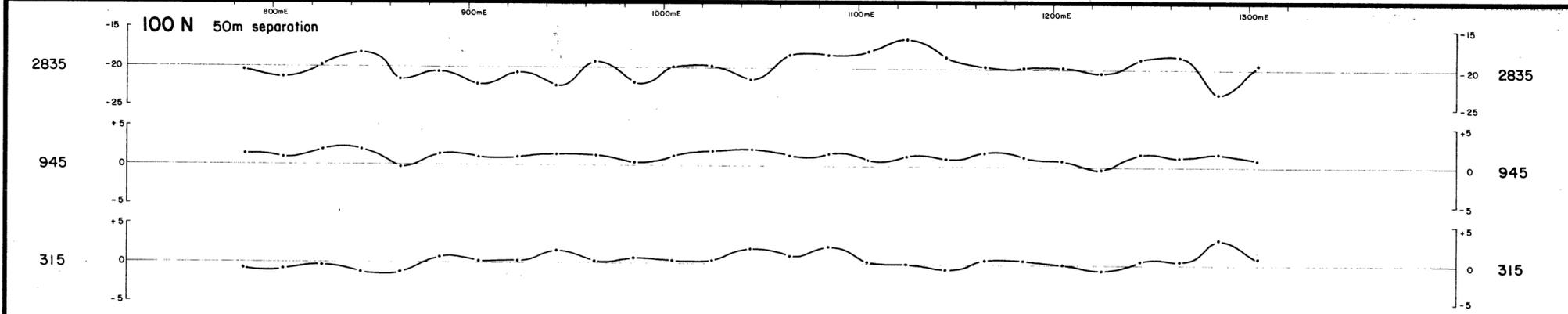


- TRENCHES
- RIVER CREEK
- △ PROMINENT PEAK
- △ TRIG STATION
- BENCH MARK
- SPOT ELEVATIONS
- PIT
- COSTEAN TRENCH
- ≡ ADIT
- SHAFT (Depth metre)
- OPEN CUT
- ⊗ ALLUVIAL WORKINGS
- ⊗ DUMP

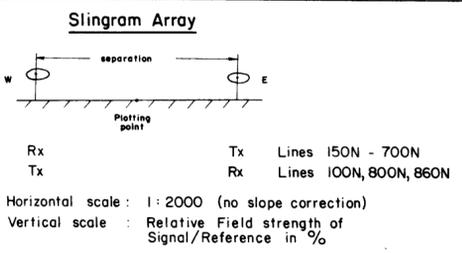
THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

JUKES PTY. GRID  
 GROUND MAGNETICS  
 (TOTAL FIELD)  
 1981-82  
 SMOOTHED CONTOURS

SCALE 1:5000  
 DATE 14-4-82  
 DRAWN BY M. HUTTON  
 DRAFTSMAN'S FREER



749399



Survey by Scintrex Pty. Ltd.  
Survey Dates:  
100N 14-3-'82  
150N 14-3-'82  
200N 13-3-'82, 15-3-'82 (Repeat)  
250N 15-3-'82  
300N 14-3-'82  
400N 14-3-'82

Reference frequency: 105 Hz  
Signal frequency: 315, 945, 2835 Hz  
Coil orientation: Horizontal Co-planar

THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

E.L. 9/66  
JUKES PTY. GRID  
GROUND E.M. 1981-82  
Genie SE-88  
LINES 100N - 400N

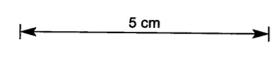
SCALE 1:2000  
DATE JUNE 1982

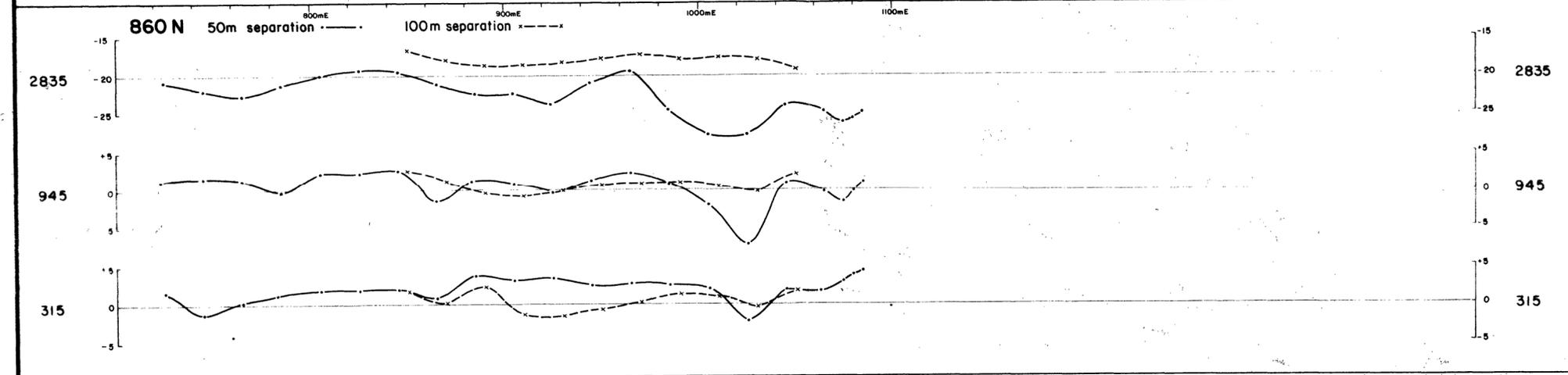
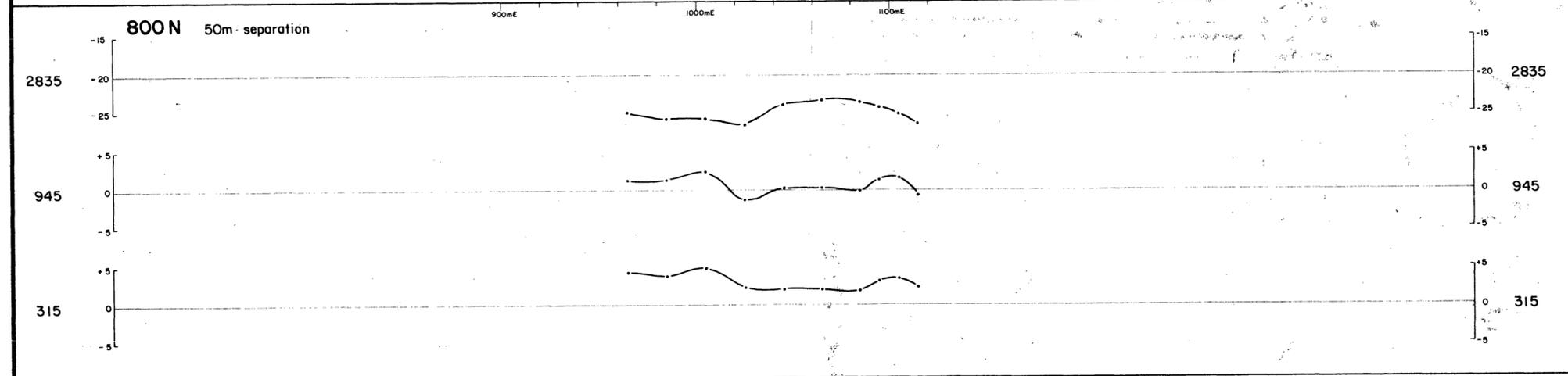
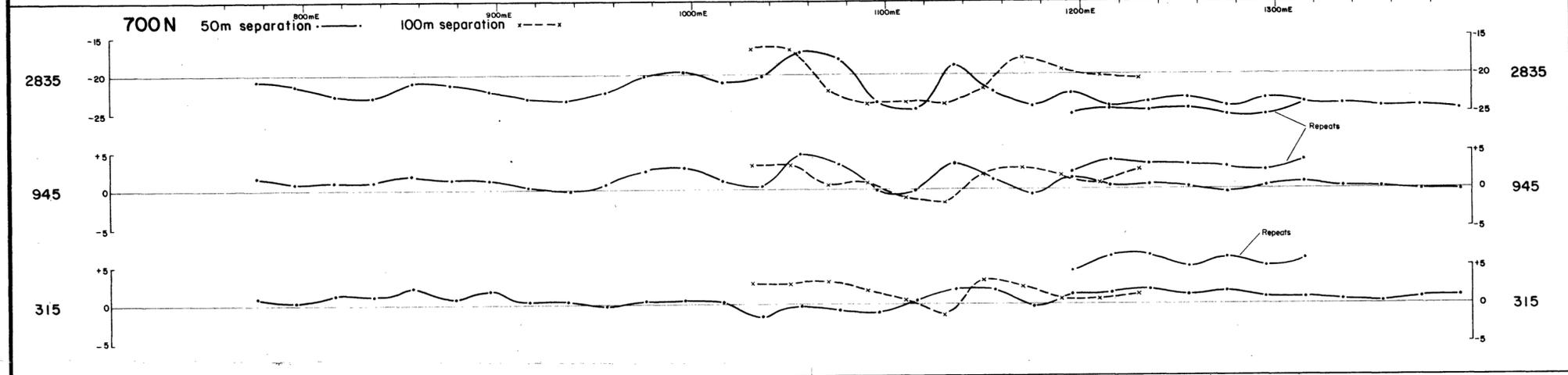
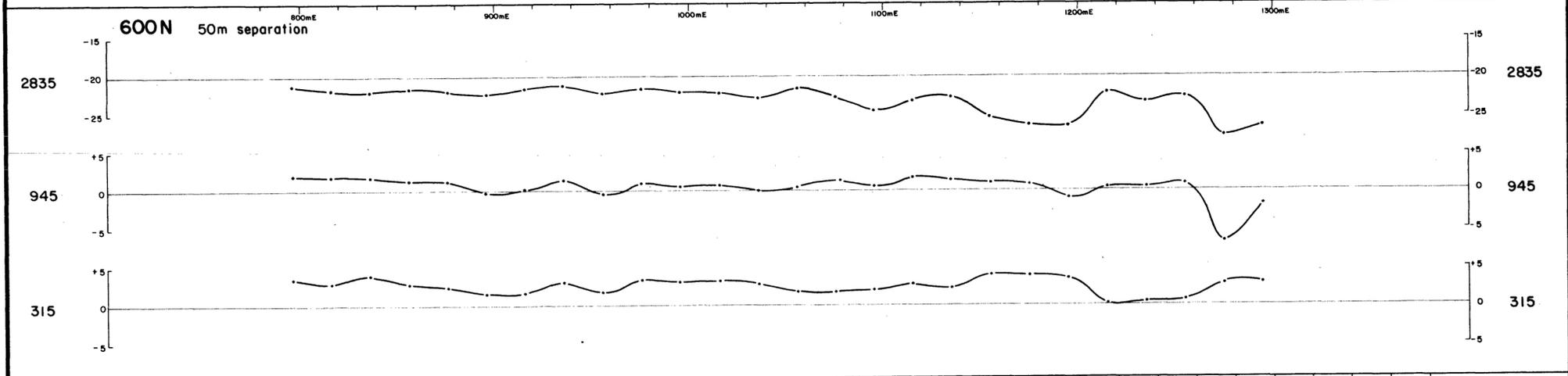
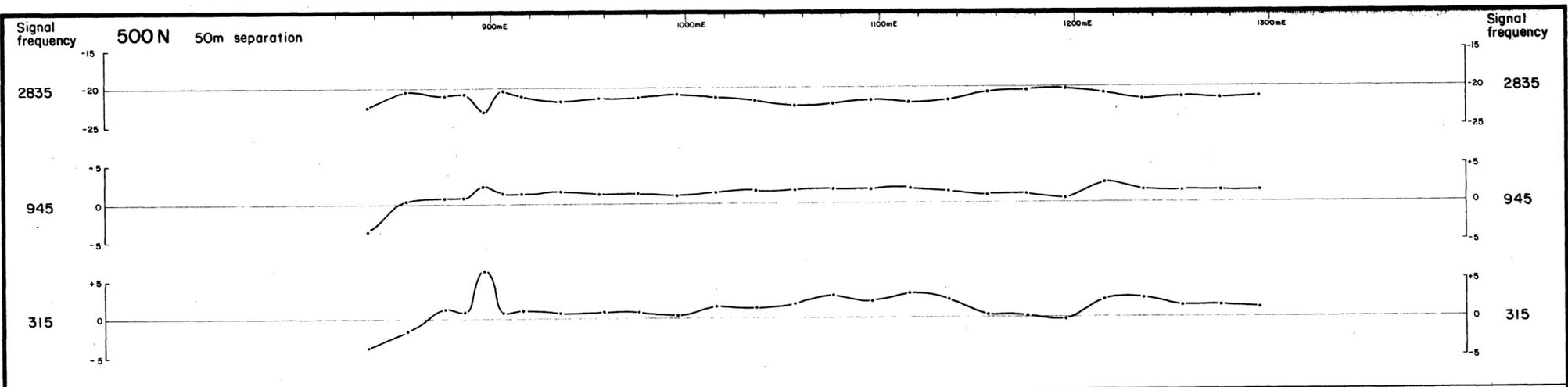
DRAWN BY T.G.D.S.  
DRAFTSMAN T.G.D.S.

REVISIONS

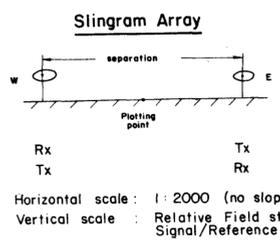
FIG. 80  
A2-232

82-1791 (3/3)





749400



Survey by Scintrex Pty. Ltd.  
Survey Dates:  
500N 13-3-'82  
600N 13-3-'82  
700N 12-3-'82, 15-3-'82 (Repeat 50m), 15-3-'82 (100m)  
800N 12-3-'82  
860N 12-3-'82 (50m), 15-3-'82 (100m)

Reference frequency : 105 Hz  
Signal frequency : 315, 945, 2835 Hz  
Coil orientation : Horizontal Co-planar

THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

E.L. 9/66  
JUKES PTY. GRID  
GROUND E.M. 1981-82  
Genie SE-88  
LINES 500N - 860N

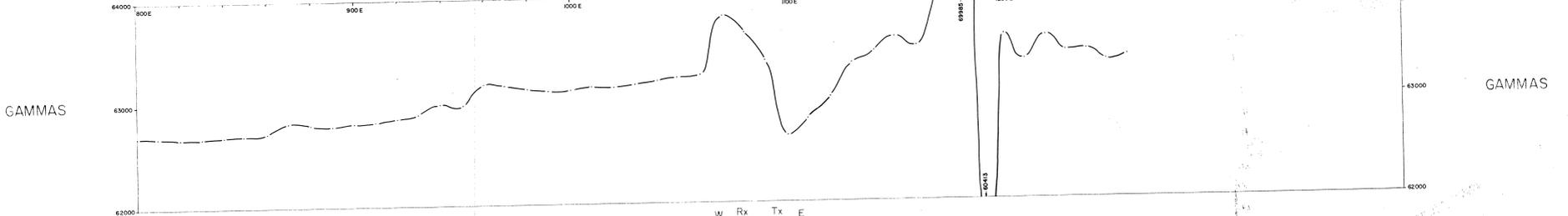
SCALE 1:2000 DATE JUNE 1982 DRAWN BY T.G.D.S. DRAFTSMAN T.G.D.S.

REVISIONS

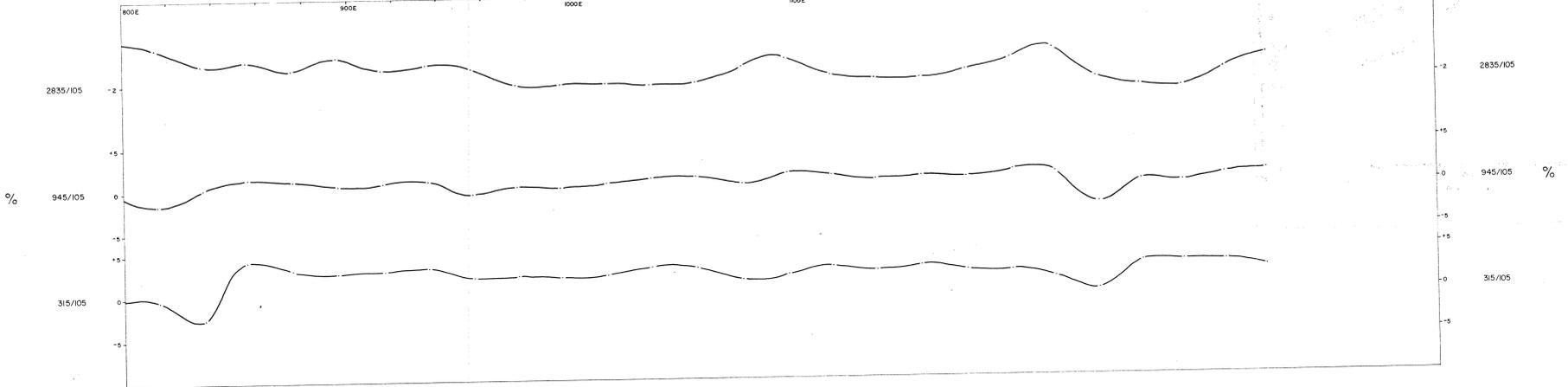
FIG 81  
A2-231

82-1791 (3/3) ← 5 cm →

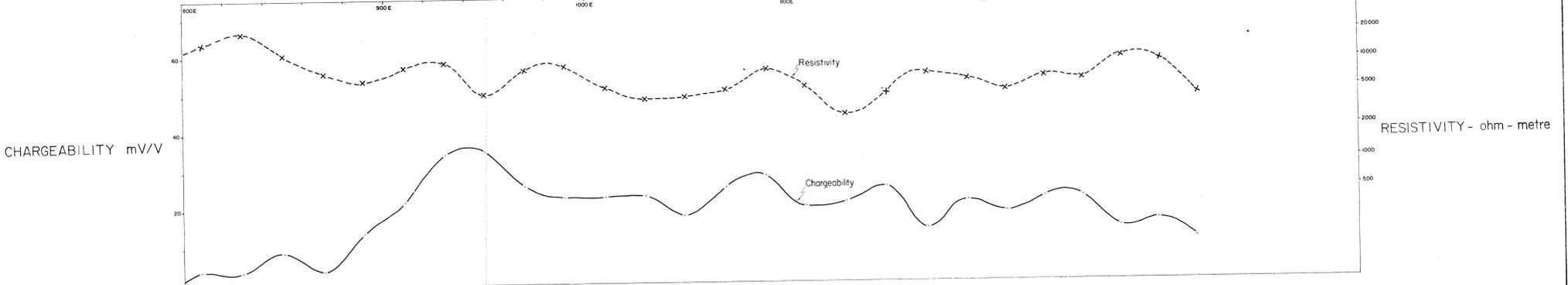
GROUND MAGNETICS (Total Field) Scintrex 1982



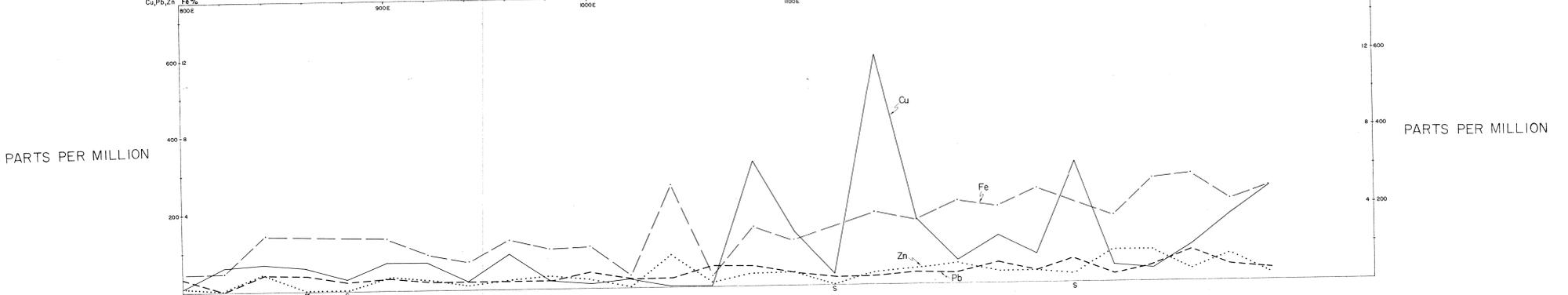
GROUND E.M. Genie Survey. Slingram array. 50 m separation



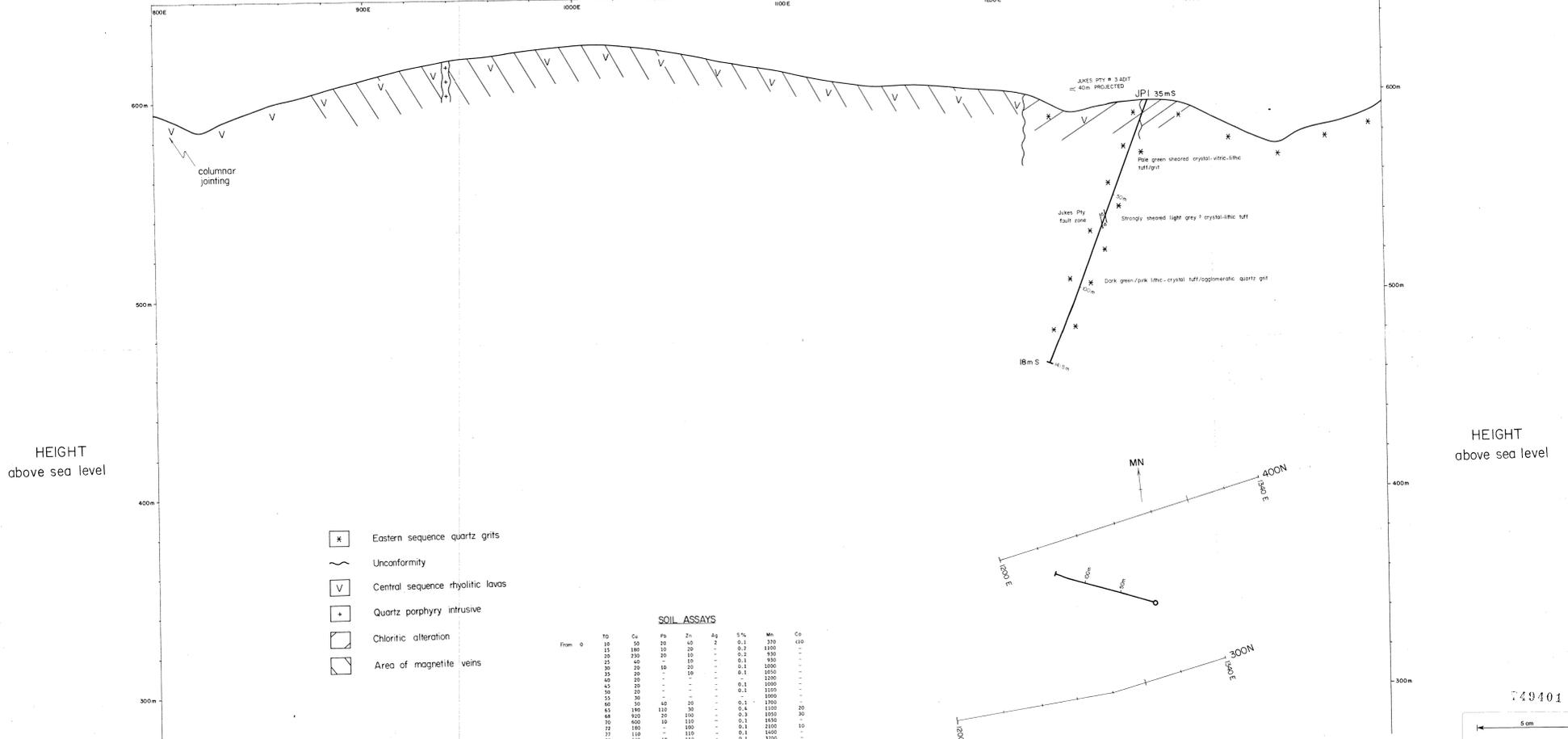
E.I.P. GRADIENT ARRAY Scintrex 1982 a=20m



SOIL & ROCK CHIP GEOCHEMISTRY



DRILLING PROFILE LINE 400N



SOIL ASSAYS

From	to	Cu	Pb	Zn	Ag	%	Mn	Co
10	20	10	10	40	2	0.1	200	100
15	180	10	20	-	-	0.2	1800	-
20	250	10	10	-	-	0.2	900	-
25	40	10	10	-	-	0.1	900	-
30	20	-	-	-	-	0.1	1000	-
35	20	-	-	-	-	0.1	1000	-
40	20	-	-	-	-	0.1	1000	-
45	20	-	-	-	-	0.1	1000	-
50	30	-	-	-	-	0.1	1000	-
55	30	-	-	-	-	0.1	1000	-
60	130	40	20	-	-	0.2	1000	20
65	930	20	100	-	-	0.3	1000	30
70	600	10	110	-	-	0.1	1000	-
75	180	-	100	-	-	0.1	2100	10
80	110	-	110	-	-	0.1	1000	-
85	110	40	110	-	-	0.1	2000	10
90	40	-	110	-	-	0.1	2000	10
95	30	-	80	-	-	0.1	2000	10
96	40	20	70	-	-	0.1	2000	20
98	210	30	230	-	-	0.2	2000	20
100	100	30	230	-	-	0.2	2000	20
102	2100	30	230	-	-	0.2	2000	20
104	1100	30	230	-	-	0.2	2000	20
106	1100	30	230	-	-	0.2	2000	20
108	2000	30	230	-	-	0.2	2000	20
110	280	30	230	-	-	0.2	1500	20
112	210	40	130	-	-	0.2	1500	20
114	410	40	230	-	-	0.2	1500	20
116	110	40	230	-	-	0.2	1500	20
117	410	40	230	-	-	0.2	1500	20
119	410	40	230	-	-	0.2	1500	20
121	480	20	200	-	-	0.2	1100	20
123	1100	40	200	-	-	0.2	1400	10

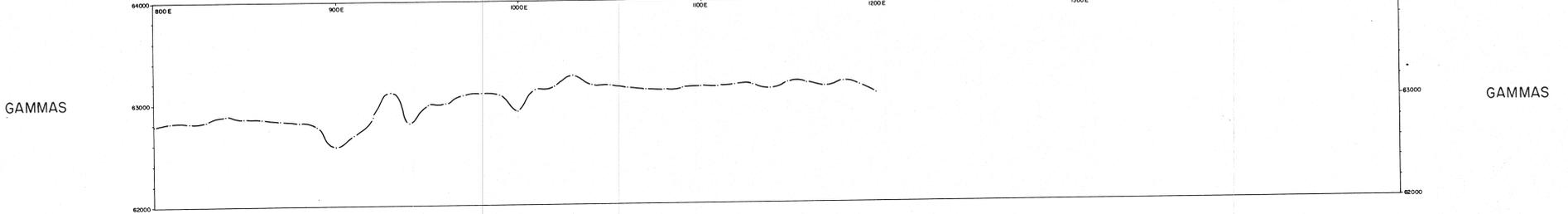
749401

THE MOUNT LVELL MINING & RAILWAY COMPANY LTD.

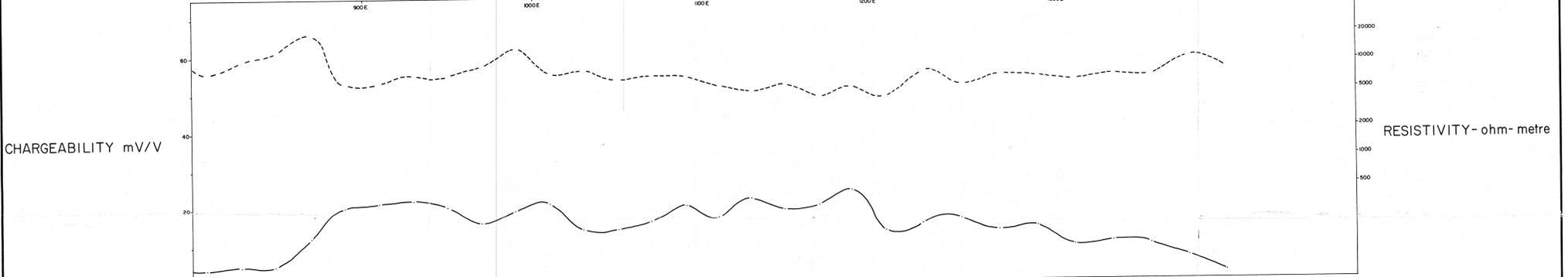
EL. 9/66  
JUKES PTY GRID  
DRILLING PROFILE  
LINE 400N  
DDH. JPI

Scale: 1:1000  
Date: 11.6.82  
Drawn by: M. HUTTON  
Checked by: S. FREEMAN  
40-226

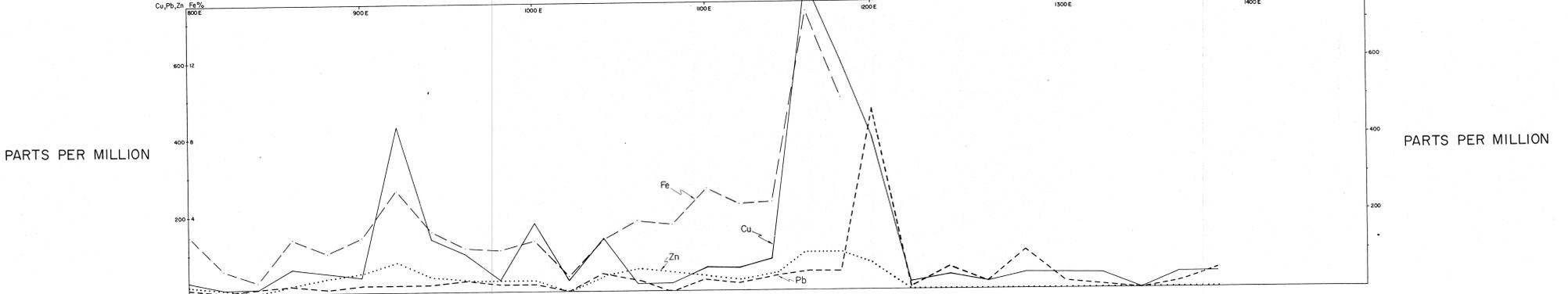
GROUND MAGNETICS (Total Field) Scintrex 1982



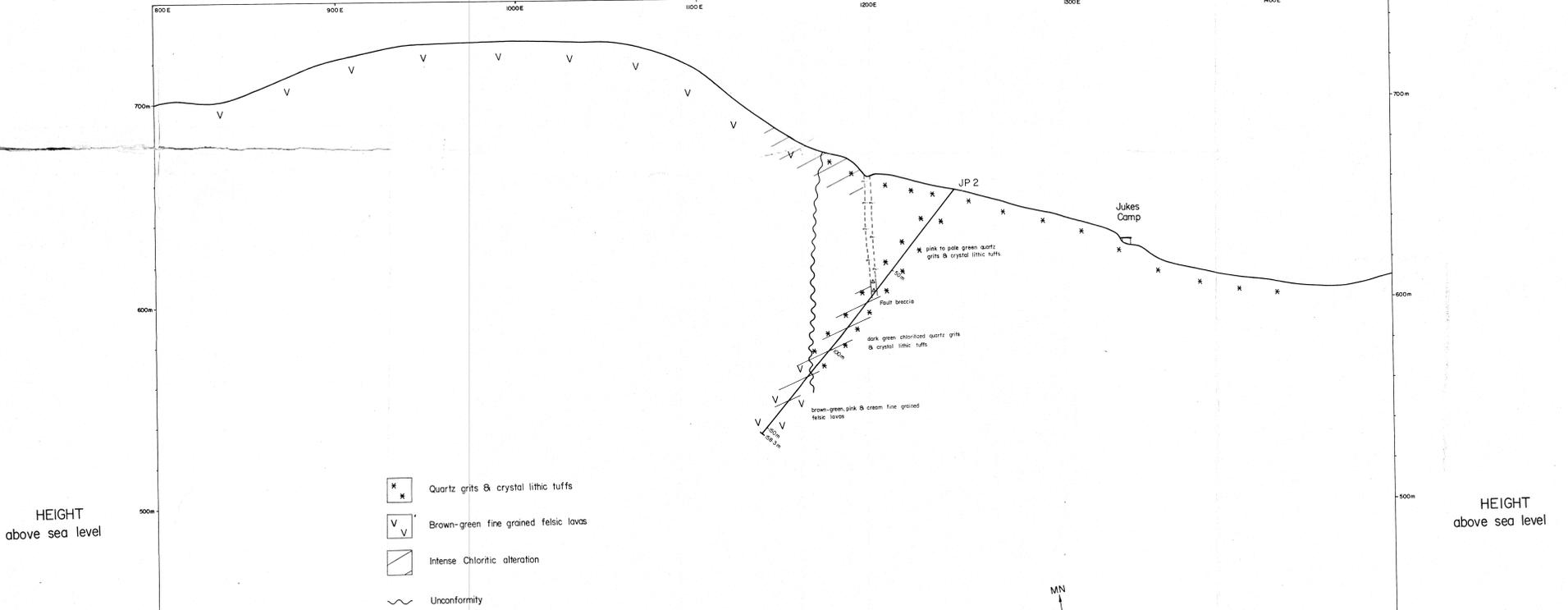
EIP GRADIENT ARRAY



SOIL GEOCHEMISTRY & ROCK CHIP GEOCHEMISTRY



DRILLING PROFILE LINE 200 N



SOIL ASSAYS

From	To	Cu	Pb	Zn	Ag	Mg	S%
61.6	63.3	1.36%	-	130	5	10000	1.0
63.3	65.0	0.58%	30	130	4	10000	1.0
65.0	66.7	1.08%	30	130	4	2500	1.1
66.7	68.4	1.58%	30	250	4	4700	1.4
68.4	70.1	1.58%	40	190	6	2300	1.6
70.1	71.8	2.37%	40	230	10	3000	2.8
71.8	73.5	0.89%	30	220	9	1500	0.3
73.5	75.2	2.18%	40	230	6	1200	2.3
75.2	76.9	1.44%	40	240	6	1600	2.8
76.9	78.6	2.28%	50	240	6	1600	2.6
78.6	80.3	1.88%	50	210	6	1100	2.1
80.3	82.0	0.76%	30	210	1	1000	0.7
82.0	83.7	2.00%	30	210	1	850	0.6
83.7	85.4	1.50%	30	210	1	1100	0.6
85.4	87.1	0.50%	30	120	-	450	0.4
87.1	88.8	0.50%	30	120	-	450	0.4
88.8	90.5	0.50%	30	120	-	350	0.1
90.5	92.2	0.50%	30	120	-	350	0.1
92.2	93.9	0.50%	30	120	-	350	0.1
93.9	95.6	0.50%	30	120	-	350	0.1
95.6	97.3	0.50%	30	120	-	350	0.1
97.3	99.0	0.50%	30	120	-	350	0.1
99.0	100.7	0.50%	30	120	-	350	0.1
100.7	102.4	0.50%	30	120	-	350	0.1
102.4	104.1	0.50%	30	120	-	350	0.1
104.1	105.8	0.50%	30	120	-	350	0.1
105.8	107.5	0.50%	30	120	-	350	0.1
107.5	109.2	0.50%	30	120	-	350	0.1
109.2	110.9	0.50%	30	120	-	350	0.1
110.9	112.6	0.50%	30	120	-	350	0.1
112.6	114.3	0.50%	30	120	-	350	0.1
114.3	116.0	0.50%	30	120	-	350	0.1
116.0	117.7	0.50%	30	120	-	350	0.1
117.7	119.4	0.50%	30	120	-	350	0.1
119.4	121.1	0.50%	30	120	-	350	0.1
121.1	122.8	0.50%	30	120	-	350	0.1
122.8	124.5	0.50%	30	120	-	350	0.1
124.5	126.2	0.50%	30	120	-	350	0.1
126.2	127.9	0.50%	30	120	-	350	0.1
127.9	129.6	0.50%	30	120	-	350	0.1
129.6	131.3	0.50%	30	120	-	350	0.1
131.3	133.0	0.50%	30	120	-	350	0.1
133.0	134.7	0.50%	30	120	-	350	0.1
134.7	136.4	0.50%	30	120	-	350	0.1
136.4	138.1	0.50%	30	120	-	350	0.1
138.1	139.8	0.50%	30	120	-	350	0.1
139.8	141.5	0.50%	30	120	-	350	0.1
141.5	143.2	0.50%	30	120	-	350	0.1
143.2	144.9	0.50%	30	120	-	350	0.1
144.9	146.6	0.50%	30	120	-	350	0.1
146.6	148.3	0.50%	30	120	-	350	0.1
148.3	150.0	0.50%	30	120	-	350	0.1
150.0	151.7	0.50%	30	120	-	350	0.1
151.7	153.4	0.50%	30	120	-	350	0.1
153.4	155.1	0.50%	30	120	-	350	0.1
155.1	156.8	0.50%	30	120	-	350	0.1
156.8	158.5	0.50%	30	120	-	350	0.1

749402



THE MOUNT LYELL MINING & RAILWAY COMPANY LTD

E.L. 9/66  
 JUKES PTY. GRID  
 DRILLING PROFILE  
 LINE 200N  
 DDH JP 2

FIG. 83

1:1000  
 12-6-82  
 M. MITTON  
 S. FREER  
 AD-227