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No. 2296

EL 67

MOUNT MESSENGER

**PROGRESS AND FINAL REPORTS TO LICENCE EXPIRY
FOR THE PERIOD 25/5/73 TO 24/5/75**

Submitted by
Carpentaria Exploration Co. Pty Ltd
1975

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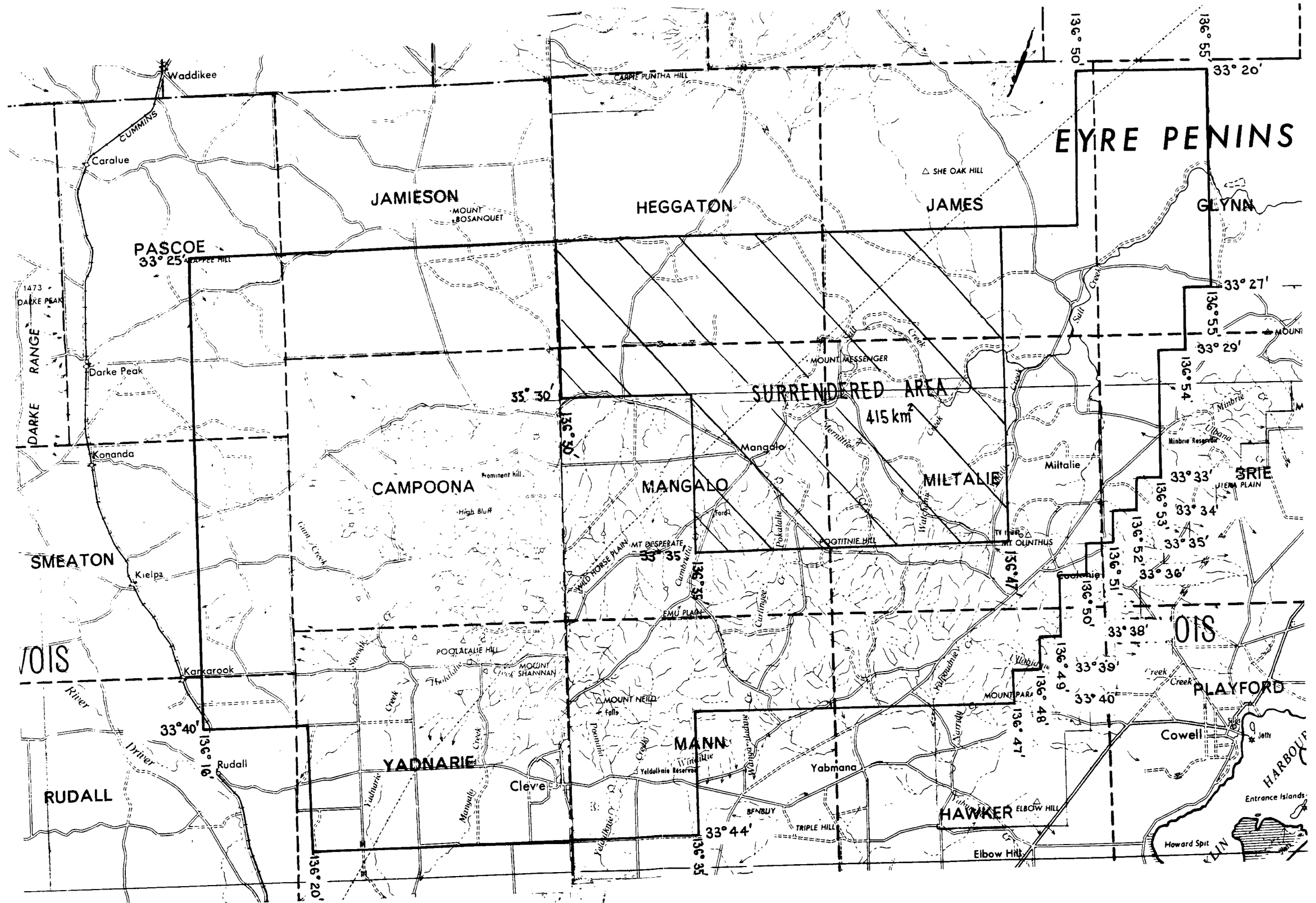


**PRIMARY INDUSTRIES
AND RESOURCES SA**

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SCALE 1:250000

CARPENTARIA EXPLORATION COMPANY PTY. LTD.
DOCKET DM.1235/72 AREA 1767 km²
1:250000 PLANS KIMBA WHYALLA 1352

100m MT MOUNT MESSENGER — APPROX. 5 km. NW OF COWELL.

EL. 67

EXPIRY DATE 24.5.14

EXTENDED 24.6.74

00 3

E.L.67. Mt. Messenger.
Quarterly Report to the 25th. August 1973.

P.J.Binks.

E.L.67. Quarterly Report to the 25th. August 1973

During the last quarter the following work has been carried out:

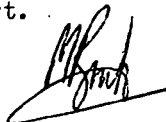
1/ Review of previous work

A thorough review of all previous work on the area has been undertaken. Most of the emphasis of this work was directed to studying the reports of Pacminex who held the area for several years.

Aerial photographs at a scale of 1:20000 have been purchased to give cover over the majority of the licence area. Also transparencies of the aeromagnetic survey flown by Pacminex have been purchased.

2/ Rock chip geochemistry

Detailed rock chip geochemistry of hematite quartzites and quartzites has been carried out in the licence area. Rock chips were collected every metre and bagged off every 20m. Samples were collected along lines across strike as shown on Drawing Nos. 15206 and 15207. Samples were assayed at AMDL for copper, lead and zinc and results are presented on the latter drawings. The drawings are at a scale of 1:63,000 and fit over the Glynn and Cowell published geological sheets, which cover the eastern part of the licence area. Hematite quartzites have also been sampled on the Darke and Rudall 1:63,000 sheets in the west of the area but not all these results are available yet. These completed results will be presented in the next quarterly report.



P.J.Binks.

31- 8-73.

E.L.67. Statement of Expenditure to the 25th. August 1973

	\$
Administration	897.00
Aerial Photographs	185.00
Assaying	959.00
Freight and cartage	3.00
Plant Hire	492.00
Operating Labour	5481.00
Stores and provisions	531.00
Transportation	804.00
Travelling	<u>168.00</u>
Total	<u>9520.00</u>

E.L. 67 Mount Messenger.
Quarterly Report to the 25th. November 1973.



Department of Mines Copy.

E.L. 67 Mount Messenger. Quarterly Report to the 25th. Nov. 1973

During the last quarter the following work has been carried out:

Rock chip geochemistry

Further rock geochemistry has been carried out over outcropping and sub-outcropping jaspilites and quartzites in the west of the licence area. Samples were collected at one metre intervals and bagged off every 20 metres along lines normal to strike. Samples have been assayed for copper, lead and zinc and results are shown plotted on Drawings No. 15208 and 15209. These drawings are at a scale of 1:63,360 and fit over the one mile geological sheets of Rudall and Darke.



P.J.Binks.

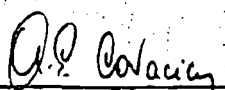
E.L. 67. Statement of Expenditure to 25th. Nov. 1973

Administration	635
Assaying	69
Freight & Cartage	3
Hire of Plant	313
Operating Labour	1 658
Stores & Provisions	404
Transportation	148
Travelling Expenses	56

THIS PERIOD	3 286
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PREVIOUSLY REPORTED	9 520
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TOTAL TO DATE	\$12 806
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A. E. Covacich.
Accountant.

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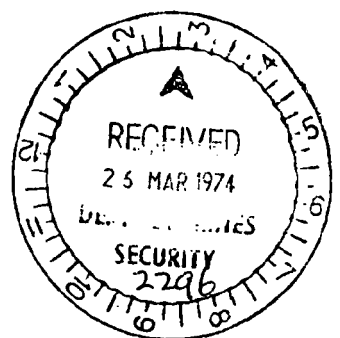
CARPENTARIA EXPLORATION COMPANY PTY. LTD.

PROGRESS REPORT

FOR QUARTER ENDED 25TH FEBRUARY, 1974

EXPLORATION LICENCE NO.67 'MOUNT MESSENGER'

MINES DEPARTMENT COPY



CARPENTARIA EXPLORATION COMPANY PTY. LTD.EXPLORATION LICENCE NO.67 "MOUNT MESSENGER"PROGRESS REPORT FOR QUARTER ENDED 25TH FEBRUARY, 1974

The search for anomalous base metal values in the iron bearing metasediments in the west of the Licence area has been continued.

The determination of geochemical values at the surface has involved rock chip samples across outcrops and samples from float and soil where outcrops are absent but trends are known.

Outcrop and float samples have been taken at 1 m intervals and were bulked in lots of twenty for analysis. Soil samples were taken every 5 m and these were bulked in lots of four for analysis. The samples were sent to Amdel for analysis for copper, lead and zinc.

This quarter, analyses have been carried out on 88 outcrop, 65 float and 57 soil samples. The results for these samples are given in the attached schedule and locations of sample lines are shown on Drawing No.15 264.

Lm Sweet
.....
for E.M. Bennett
Manager

0011

EXPLORATION LICENCE NO.67 'MOUNT MESSENGER'EYRE PENINSULA, SOUTH AUSTRALIARESULTS OF SAMPLES SHOWN ON PLAN NO.15 264N.B. Outcrop, float and soil samples from same sample point are shown on the same line.

Line No.	Assay No.	Outcrop Sample			Assay No.	Float Sample			Assay No.	Soil Sample		
		Cu ppm	Pb ppm	Zn ppm		Cu ppm	Pb ppm	Zn ppm		Cu ppm	Pb ppm	Zn ppm
1	351 800	2	8	18								
	351 801	2	5	10								
	351 802	85	5	18								
	351 803	12	5	30								
	351 804	8	5	50								
	351 805	5	5	60								
	351 806	8	5	60								
2	351 807	2	5	5								
	351 808	5	5	2								
	351 809	2	5	8								
3	351 810	65	450	550								
	351 811	42	22	50								
	351 812	38	12	75								

Line No.	Assay No.	Outcrop Sample			Assay No.	Float Sample			Assay No.	Soil Sample		
		Cu ppm	Pb ppm	Zn ppm		Cu ppm	Pb ppm	Zn ppm		Cu ppm	Pb ppm	Zn ppm
3	351 813	48	10	400								
	351 814	38	12	50								
	351 815	12	8	12								
	351 816	18	12	30								
	351 817	1000	20	130								
4	351 823	70	70	120								
	351 824	160	80	310								
	351 825	110	60	200								
5	351 826	120	110	140								
	351 827	140	320	390								
	351 828	250	1450	230								
	351 829	160	700	70								
6	351 830	15	5	5								
	351 831	8	5	8								
	351 832	22	5	12								
	351 833	15	5	12								
7	351 838	48	210	270								
	351 839	210	130	1200								

- 3 -

Line No.	Assay No.	Outcrop Sample			Assay No.	Float Sample			Assay No.	Soil Sample		
		Cu ppm	Pb ppm	Zn ppm		Cu ppm	Pb ppm	Zn ppm		Cu ppm	Pb ppm	Zn ppm
7	351 840	250	470	320								
8	351 841	22	35	35								
	351 842	2	35	15								
	351 843	8	8	12								
	351 844	15	100	12								
9	351 845	280	8	50								
	351 846	100	8	170								
	351 847	270	22	280								
10	351 848	180	85	65								
	351 849	300	32	170								
	351 850	220	85	120								
11	353 866	100	250	100								
	353 867	180	90	130								
	353 868	260	90	75								
12	353 869	35	40	70								
	353 870	25	220	330								
	353 871	110	1050	2100								

- 4 -

Line No.	Assay No.	Outcrop Sample			Assay No.	Float Sample			Assay No.	Soil Sample		
		Cu ppm	Pb ppm	Zn ppm		Cu ppm	Pb ppm	Zn ppm		Cu ppm	Pb ppm	Zn ppm
12	353 872	12	25	80								
	353 873	45	32	170								
	353 874	170	1300	850								
	353 875	160	1250	320								
	353 876	220	8000	800								
	353 877	190	1250	500								
	353 878	120	90	130								
	353 879	85	200	28								
13	353 927	32	35	25								
	353 928	32	50	35								
	353 929	60	60	20								
	353 930	160	110	42								
	353 931	350	150	220								
	353 932	25	160	20								
	353 933	42	180	120								
Outcrop Samples Repeated												
14	353 934	160	380	240	351 834	150	340	300				
	353 935	110	640	140	351 835	130	250	160				
	353 936	220	2190	320	351 836	110	100	120				

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Line No.	Assay No.	Outcrop Sample			Assay No.	Float Sample			Assay No.	Soil Sample		
		Cu ppm	Pb ppm	Zn ppm		Cu ppm	Pb ppm	Zn ppm		Cu ppm	Pb ppm	Zn ppm
14	353 937	950	470	800	351 837	1000	1100	650				
15	353 938	60	55	280								
	353 939	180	160	340								
	353 940	200	4190	55								
16									354 063	5	15	15
									354 064	5	20	14
									354 065	10	30	37
									354 066	8	28	32
									354 067	15	35	50
	354 126	22	210	200					354 068	25	40	80
									354 069	35	40	150
									354 070	32	50	130
									354 071	18	22	45
17					354 072	30	75	75				
					354 073	22	35	60				
					354 074	75	280	75	354 153	110	75	60
	354 131	80	240	230	354 075	75	52	70	354 154	110	52	120
					354 076	55	170	55	354 155	60	410	95

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Line No.	Assay No.	Outcrop Sample			Assay No.	Float Sample			Assay No.	Soil Sample		
		Cu ppm	Pb ppm	Zn ppm		Cu ppm	Pb ppm	Zn ppm		Cu ppm	Pb ppm	Zn ppm
17					354 077	75	140	160	354 156	100	95	300
					354 078	70	140	100	354 157	110	1000	300
					354 079	30	75	75	354 158	160	360	300
					354 080	10	28	30				
18									354 081	25	68	110
					354 159	110	340	220	354 082	85	110	100
					354 160	48	260	85	354 083	75	140	50
					354 161	160	600	240	354 084	65	300	90
	354 134	140	7500	750	354 162	220	4500	850	354 085	65	1600	110
	354 135	250	3700	2900	354 163	150	4500	550	354 086	55	1100	90
					354 164	190	1500	950	354 087	120	480	110
					354 165	160	1450	1380	354 088	60	410	310
									354 089	8	25	22
									354 090	8	35	32
19									354 091	12	35	55
									354 092	12	30	45
									354 093	10	22	38
									354 094	8	22	35

Line No.	Assay No.	Outcrop Sample			Assay No.	Float Sample			Assay No.	Soil Sample		
		Cu ppm	Pb ppm	Zn ppm		Cu ppm	Pb ppm	Zn ppm		Cu ppm	Pb ppm	Zn ppm
19	354 133	140	7500	750					354 095	12	18	55
									354 096	15	20	55
									354 097	15	35	75
									354 098	42	55	140
									354 099	75	95	280
									354 100	150	95	120
									354 101	75	140	200
									354 102	28	48	100
									354 103	10	28	60
									354 104	10	88	45
									354 105	5	10	10
									354 106	5	12	10
20									354 107	22	52	60
									354 108	18	290	80
									354 109	35	600	170
									354 110	28	30	140
									354 111	15	48	90
									354 112	28	52	130

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Line No.	Assay No.	Outcrop Sample			Assay No.	Float Sample			Assay No.	Soil Sample		
		Cu ppm	Pb ppm	Zn ppm		Cu ppm	Pb ppm	Zn ppm		Cu ppm	Pb ppm	Zn ppm
20									354 113	40	80	160
									354 114	70	170	180
									354 115	60	200	110
									354 116	75	220	50
21					354 166	100	100	850	354 117	8	18	30
					354 167	70	460	650	354 118	18	92	120
					354 168	60	600	2000	354 119	12	55	100
	354 137	140	1800	4000	354 169	100	2900	3850	354 120	10	85	65
									354 121	5	32	50
22	354 145	15	130	1000	354 122	32	370	2500				
	354 146	22	140	700	354 123	18	250	700				
	354 147	22	350	340	354 124	20	340	140				
23	354 125	28	32	60								
24	354 127	90	88	3280								
25	354 128	240	95	1420								
	354 129	75	1000	2100								
	354 130	210	140	1400								

Line No.	Assay No.	Outcrop Sample			Assay No.	Float Sample			Assay No.	Soil Sample		
		Cu ppm	Pb ppm	Zn ppm		Cu ppm	Pb ppm	Zn ppm		Cu ppm	Pb ppm	Zn ppm
26	354 136	310	650	1500								
27	354 132	100	420	2580								
28	354 138	120	550	1000								
29	354 139	22	300	110								
30	354 140	50	58	1850								
31					354 170	360	470	180				
					354 171	350	550	330				
					354 172	470	650	310				
					354 173	700	3000	270				
					354 174	390	1150	370				
	354 141	500	1450	270	354 175	340	1650	470				
					354 176	310	1500	380				
32					354 182	190	400	200				
					354 183	110	340	150				
					354 184	250	2100	1000				
					354 185	190	500	180				
					354 186	120	380	60				

Line No.	Assay No.	Outcrop Sample			Assay No.	Float Sample			Assay No.	Soil Sample		
		Cu ppm	Pb ppm	Zn ppm		Cu ppm	Pb ppm	Zn ppm		Cu ppm	Pb ppm	Zn ppm
32	354 142	230	240	330	354 187	140	190	270				
					354 188	300	160	380				
					354 189	380	260	780				
					354 190	800	630	820				
					354 191	720	1150	900				
33					354 192	5	10	8				
					354 193	5	16	10				
					354 194	15	28	12				
	354 143	70	25	35	354 195	38	10	20				
					354 196	60	25	32				
34					354 199	150	55	50				
					354 200	28	45	18				
					354 201	85	20	25				
					354 202	48	18	18				
					354 203	15	22	5				
					354 204	25	20	25				
					354 205	50	42	50				
					354 206	48	12	130				
					354 207	65	38	37				

Line No.	Assay No.	Outcrop Sample			Assay No.	Float Sample			Assay No.	Soil Sample		
		Cu ppm	Pb ppm	Zn ppm		Cu ppm	Pb ppm	Zn ppm		Cu ppm	Pb ppm	Zn ppm
35	354 148	10	18	28								
	354 149	8	15	22								
	354 150	15	15	20								
	354 151	12	12	22								
	354 152	12	8	40								
36					354 177	140	180	65				
					354 178	150	330	75				
					354 179	110	330	100				
					354 180	100	230	170				
					354 181	210	440	330				
37					354 197	140	30	42				
					354 198	210	40	30				
38					354 208	250	290	1200				
					354 209	260	460	1400				
					354 210	390	1000	1200				
					354 211	470	2500	1400				
39	354 212	180	68	370								

Line No.	Assay No.	Outcrop Sample			Assay No.	Float Sample			Assay No.	Soil Sample		
		Cu ppm	Pb ppm	Zn ppm		Cu ppm	Pb ppm	Zn ppm		Cu ppm	Pb ppm	Zn ppm
39	354 213	110	75	100								
	354 214	55	72	45								
40	354 217	18	140	600								
	354 218	18	110	280								
	354 219	28	12	80								
	354 220	38	12	42								
	354 221	30	8	20								
	354 222	28	12	20								
	354 223	30	15	18								
	354 224	28	20	45								
	354 225	40	22	40								
	354 226	28	20	22								
	354 227	30	18	25								
	354 228	28	20	22								
41	354 229	28	12	22								
	354 230	25	12	38								
	354 231	25	22	28								
	354 232	38	22	28								

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Line No.	Assay No.	Outcrop Sample			Assay No.	Float Sample			Assay No.	Soil Sample		
		Cu ppm	Pb ppm	Zn ppm		Cu ppm	Pb ppm	Zn ppm		Cu ppm	Pb ppm	Zn ppm
41	354 233	18	20	28								
	354 234	25	15	20								
	354 235	25	20	20								
42	354 236	310	55	300								
	354 237	500	55	200								
43	354 238	220	290	380								
	354 239	250	200	170								
	354 240	840	540	770								
	354 241	160	180	150								
	354 242	150	240	200								
44	354 243	25	8	8								
	354 244	85	28	42								
	354 245	170	48	75								
	354 246	200	55	85								
	354 247	190	90	65								
	354 248	310	260	65								
	354 249	320	420	230								
	354 250	330	430	650								

Line No.	Assay No.	Outcrop Sample			Assay No.	Float Sample			Assay No.	Soil Sample		
		Cu ppm	Pb ppm	Zn ppm		Cu ppm	Pb ppm	Zn ppm		Cu ppm	Pb ppm	Zn ppm
44	354 251	300	620	310								
	354 252	430	340	120								
	354 253	320	190	65								
	354 254	450	520	140								
	354 255	250	360	50								
	354 256	240	290	220								
	354 257	160	140	130								
	354 258	260	150	75								
	354 259	330	140	65								
45	354 260	35	45	10								
	354 261	25	35	8								
	354 262	22	38	8								
	354 263	42	35	5								
	354 264	140	42	18								
	354 265	120	48	10								
	354 266	65	48	5								
	354 267	40	38	8								
	354 268	40	48	8								
	354 269	65	42	10								

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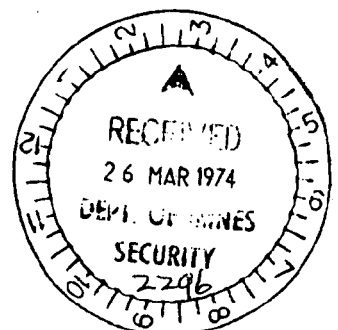
CARPENTARIA EXPLORATION COMPANY PTY. LTD.

EXPLORATION LICENCE NO.67 'MOUNT MESSENGER'

STATEMENT OF EXPENDITURE FOR QUARTER ENDED
25TH FEBRUARY, 1974

	\$
Administration	2 013
Assaying	169
Freight and Cartage	14
Hire of Plant	918
Operating Labour	4 565
Stores and Provisions	475
Transportation	442
Travelling Expenses	683
This Period	\$ 9 279
Previously Reported	\$12 806
<u>TOTAL TO DATE</u>	<u>\$22 085</u>

..... *L M Sweet*
for E.M. Bennett
Manager



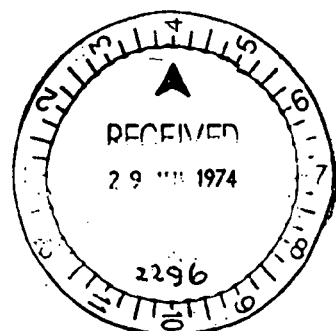
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CARPENTARIA EXPLORATION COMPANY PTY. LTD.

PROGRESS REPORT

FOR QUARTER ENDED 25TH MAY, 1974

EXPLORATION LICENCE NO.67 'MOUNT MESSENGER'

MINES DEPARTMENT COPY



CARPENTARIA EXPLORATION COMPANY PTY. LTD.EXPLORATION LICENCE NO.67 'MOUNT MESSENGER'PROGRESS REPORT FOR QUARTER ENDED 25TH MAY, 19741. INTRODUCTION

During the quarter a geological reconnaissance of the area was carried out with the view to relinquishing the areas of interest in conjunction with a detailed assessment of an area which yielded high copper, lead and zinc in the surface chip sampling programme.

Application has been made to the South Australian Mines Department for the renewal of Exploration Licence No.67, which has been reduced in size from 1767 km² to 1352 km².

2. EXPLORATION2.1. Gridding

A grid has been established (Campoon Grids C1 and C2) and roughly levelled in the western part of Exploration Licence No.67 with lines at 300 m intervals (see plan No.15271 for grid location).

2.2. Geology

Geological reconnaissance mapping utilizing aerial photographs at a scale of approximately 1:20 000 is currently being carried out in an attempt to locate favourable areas in addition to detailed mapping on the Campoon Grid at a scale of 1:10 000.

2.3. GeophysicsMagnetometer Survey

A survey using a Scintrex MF2 Fluxgate magnetometer has been

2. EXPLORATION (CONT.)

completed over all grid lines and results are currently being drafted.

2.4. Geochemistry

Residual Soil Programme

A South Australian Mines Department Land Rover mounted Gemco rig was used from 29th March to 10th April in an attempt to sample the residual soil overlying bedrock. However, the rig proved to be too underpowered to reach this zone out on the valley flats and so was restricted to sampling over the ridges. Hole depths ranged from 0.5 m to 10.5 m .

A total of 340 m of augering (74 holes) was completed with an average hole depth of 4.6 m .

A sample of the lowest material encountered in the hole was collected.

Weathered Bedrock Sampling

From 29th April to 4th May an Ingersol Rand 1000 rig of Boring Enterprises Pty. Ltd. was used to carry out sampling on alternate grid lines. A total of 220 holes was completed using drag bits for an aggregate total of 2019 m (average hole depth of 9.2 m).

Hole depths ranged from 1.5 m to 30.5 m .

The aim of the programme was to sample the weathered bedrock and determine combined primary and secondary geochemical dispersion patterns while also providing information on the geology.

2. EXPLORATION (CONT.)

Samples of weathered material from the bottom of the hole were collected from top of chip mound around the hole.

Sample locations are plotted on plan No.15275.

Analyses

The sample material collected from these programmes was submitted to A.M.D.E.L. for pulverizing where necessary with analysis by Atomic Absorption Spectrometry for copper, lead and zinc on the -80 mesh fraction.

Results for copper, lead, zinc are plotted on accompanying plan Nos.15272 to 15274 respectively.

2.5. Drilling

From the 6th to 12th May an Ingersol Rand 1000 Drillmotor rig of Boring Enterprises Pty. Ltd. was used to complete four rotary percussion holes for a total of 434 m .

Samples were collected at 1.5 m intervals, the dry samples being collected and split with a cyclone to a 1 to 2 kg fraction, which was collected for analysis.

Below the water table sampling was difficult due mainly to very low water flows. The procedure involved collection of as much of the sample as possible in bins and collection of a large number of grabs from the interval to make up the sample to 1 to 2 kg weight.

2. EXPLORATION (CONT.)

Samples have been submitted to A.M.D.E.L. for drying and pulverizing with analysis by Atomic Absorption Spectrometry for copper, lead and zinc on the -80 mesh fraction.

L. M. Sweet
.....
For E.M. Bennett
Manager

0032

CARPENTARIA EXPLORATION COMPANY PTY, LTD.
EXPLORATION LICENCE NO. 67 'MOUNT MESSENGER'
STATEMENT OF EXPENDITURE FOR QUARTER ENDED
MAY 25TH, 1974

	\$
ADMINISTRATION	3 440
ASSAYING	587
FREIGHT	132
CONTRACT DRILLING	12 916
PLANT HIRE	873
OPERATING LABOUR	7 325
STORES	1 269
TRANSPORT	385
TRAVELLING	405
	27 332
PREVIOUSLY REPORTED	22 085
TOTAL TO DATE	\$49 417

E.M. Bennett
.....
For E.M. Bennett
Manager

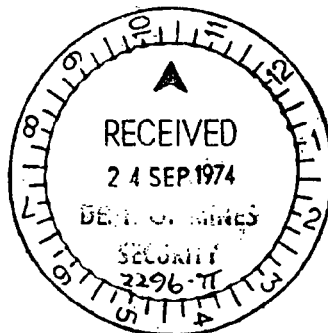
0033

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

PROGRESS REPORT

FOR QUARTER ENDING 25TH AUGUST, 1974

EXPLORATION LICENCE NO.67 "MOUNT MESSENGER", S.A.



MINES DEPARTMENT COPY

CARPENTARIA EXPLORATION COMPANY PTY. LTD.PROGRESS REPORTFOR QUARTER ENDING 25TH AUGUST, 1974EXPLORATION LICENCE NO.67 "MOUNT MESSENGER", S.A.1. INTRODUCTION

During the quarter detailed geological mapping was carried out in a number of areas in conjunction with residual soil sampling.

Results of this sampling and previous drilling have been received and plans drafted.

2. GRIDDING

A grid (2400 m x 600 m) has been established in the north-west part of Exploration Licence No.67, the Mangalo M1 Grid with side lines at 200 m and pegged at 50 m intervals. See Plan No.15271 for location.

This was to assist in the geological mapping and residual soil sampling.

3. GEOLOGY

Detailed geological mapping at scale of 1:10 000 has been completed over the Campoona C1 and C2 grids and also the Mangalo M1 Grid.

Geological Maps of the Campoona and Mangalo Grids are currently being drafted.

During the quarters ten samples were collected for detailed petrological examination by the Senior Research Geologist with Carpentaria Exploration Company Pty. Ltd. who, in early August, made a visit to the area and collected a number of samples for detailed examination. These are included in the above batch.

4. GEOPHYSICS - MAGNETIC SURVEY

A survey was carried out using a Scintrex MF2 Fluxgate magnetometer over the Mangalo Grid. However, nearby thunder activity has introduced too

much erratic variation into the results to be of any use.

5. GEOCHEMISTRY

5.1 Campoona Grids C1 & C2

(a) Residual Soil and weather bedrock

A total of 230 samples were obtained by hand auger and these had an average depth of 0.6 m (total aggregate depth of 141 m).

Samples were collected at 20 m intervals on line 100 m apart between the bedrock geochemical samples obtained in the previous quarter and at 10 m intervals over selected zones and over previous percussion drill holes.

The collected samples were analysed for copper, lead and zinc and are plotted on Plan Nos. 15272 to 15275 inclusive.

(b) Rock Chip

A total of seven rock chip samples were collected from areas of interest during geological mapping and submitted for analysis of copper, lead and zinc.

5.2 Mangalo Grid M1

(a) Residual Soil and weathered bedrock

A total of 182 samples were collected by hand auger at an average depth of 0.5 m (total aggregate of 88.8 m) generally at 20 m and occasionally at 10 m spacings over an apparent "gossanous" zone.

Samples were analysed for copper, lead and zinc and results are plotted on Plan Nos. 15292 to 15295 inclusive.

5.3 Yadnarie Grid Y1

(a) Residual Soil

A total of 21 reconnaissance soil samples were collected from this area over the small Simms and Bradley copper mine adjacent to Mt. Shannan, and analysed for copper, lead and zinc.

(b) Rock Chip

A total of six rock chip samples were collected along strike of the gossanous outcrop and analysed for copper, lead and zinc.

6. DRILLING

Results from the four percussion holes completed during the previous quarter have been received and drafted. See Plan Nos. 15287 to 15290.

The most significant results are -

Hole PDH/C1

7.6 m of 0.58% Lead from 16.8 m to 24.4 m
7.6 m of 0.35% Lead from 30.5 m to 36.1 m
10.7 m of 0.34% Lead from 48.8 m to 57.9 m

Hole PDH/C2

6.1 m of 0.51% Lead from 83.8 m to 89.9 m
18.3 m of 0.21% ^{Zinc} ~~Lead~~ from 103.6 m to 121.9 m

Hole PDH/C3

No significant results, abandoned due to caving short of target.

Hole PDH/C4

10.7 m of 0.38% Copper from 53.5 m to 64.0 m
67.1 m of 0.22% ^{Zinc} ~~Pb~~ from 21.3 m to 88.4 m

Wasted chips from the copper rich section in PDH/C4 have been forwarded for a detailed examination on the nature of the mineralization.

0037

CARPENTARIA EXPLORATION COMPANY PTY. LTD.EXPLORATION LICENCE NO.67 "MOUNT MESSENGER", S.A.STATEMENT OF EXPENDITURE FOR QUARTER ENDED 25TH AUGUST, 1974

Administration	\$ 2 256
Aerial Surveys	-
Assaying	1 051
Freight	159
Plant Hire	1 142
Operating Labour	4 797
Stores	1 200
Transport	309
Travelling	240
	11 154
Previously Reported	49 417
	\$ 60 571

W. Howe
.....
for E.M. BENNETT,
MANAGER.

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

MINING TENEMENT

PROGRESS REPORT

EXPLORATION LICENCE NO. 67

'MOUNT MESSENGER'

SOUTH AUSTRALIA

FOR QUARTER ENDED 25TH NOVEMBER 1974



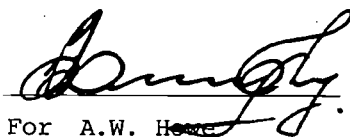
DATE: 5th December 1974

COPY: DEPARTMENT OF MINES

CARPENTARIA EXPLORATION COMPANY PTY. LTD.EXPLORATION LICENCE NO. 67 "MOUNT MESSENGER"PROGRESS REPORT FOR QUARTER ENDING 25TH NOVEMBER 1974

No field work has been carried out during most of the quarter. However a programme of reconnaissance ground electro-magnetic and induced polarization has commenced on the Campoona Grid and will ultimately be expanded to cover other potential areas. A comprehensive literature survey of Pacminex (who previously held the area) results has been made and as a result some addition work may be warranted in the Mt. Shannan area. This will however depend upon a geological field examination followed by examination of diamond core from the Pacminex drilling programme now stored with the S.A. Department of Mines.

Drill logs and results from percussion drilling carried out earlier in the year are attached.



For A.W. Home
Administration Manager

0040

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

PERCUSSION DRILL HOLE LOG

P.D.H.C.I.

PROJECT: Mr. Messenger E.L.67
 LOCATION: Campora Street, Grid C2
 CO-ORDINATE: 175N, 1250E
 DEVIATION: Vertical
 AZIMUTH: -
 COMPLETED: 060574
 C70574

DEPTH: 123.44m.
 HOLE SIZE: 152 mm
 CHIP RECOVERY: Good
 CONTRACTOR: Boring Enterprises Pty. Ltd.
 DRILL TYPE: Ingersoll Rand 1000 Drillmaster
 ASSAYS: AMDEL
 LOGGED BY: V.R. Everle

Logged Interval (m)	Geological Description	Mineralisation	Sample No. QS Series	Sample From	Sample to	Interval (m)	Analyses (ppm)			Comments
							Cu	Pb	Zn	
0 - 1.52	Schist, highly leached hematite enriched with some limonite		13001	0	1.52	1.52	85	1500	280	
1.52- 2.05	"		13002	1.52	2.05	1.52	85	950	90	
2.05- 4.57	"		13003	3.05	4.57	1.52	85	1700	70	
4.57- 6.10	" with some quartz	Fine magnetite inclusions <1% in quartz	13004	4.57	6.10	1.52	75	1900	190	
6.10- 7.62	As above but with only minor quartz		13005	6.10	7.62	1.52	85	700	80	
7.62- 9.14	Schist, leached with hematite developed and smoky quartz. Muscovite 20% and limonite 15%	Minor fine magnetite <1% in quartz.	13006	7.62	9.14	1.52	45	1300	50	
9.14- 10.67	As above with increased hematite		13007	9.14	10.67	1.52	150	2600	180	
10.67- 12.19	As above		13008	10.67	12.19	1.52	110	1900	150	
12.19- 13.72	As above		13009	12.19	13.72	1.52	200	2800	410	
13.72- 15.24	Schist, leached with 30% limonite and 10% hematite		13010	13.72	15.24	1.52	200	1700	200	
15.24- 16.76	Schist, highly weathered		13011	15.24	16.76	1.52	50	1000	130	
16.76- 18.28	Schist, hematite enriched with 10% fine grained mica.		13012	16.76	18.28	1.52	180	2400	170	
18.28- 19.81	Schist, highly weathered with 20% hematite and some limonite		13013	18.28	19.81	1.52	280	1800	50	
19.81- 21.34	As above		13014	19.81	21.34	1.52	200	1400	100	
21.34- 22.86	As above		13015	21.34	22.86	1.52	310	1700	230	
22.86- 24.38	Schist, highly weathered with 10% hematite and some limonite		13016	22.86	24.38	1.52	310	2400	35	Casing Run to 24.38 m.
24.38- 25.91	Schist, weathered with hematite enrichment and some limonite. 30% mica.		13017	24.38	25.91	1.52	500	1050	490	
25.91- 27.43	As above with hematite enrichment bands parallel to schistosity.		13018	25.91	27.43	1.52	130	1000	150	
27.43- 28.96	Schist, fine grained thinly laminated with some hematite enrichment and limonite		13019	27.43	28.96	1.52	410	900	95	
28.96- 30.48	As above with smoky quartz		13020	28.96	30.48	1.52	70	850	80	
30.48- 32.00	Schist, fine grained, thinly laminated and weathered. Smoky quartz and some hematite enrichment.		13021	30.48	32.00	1.52	80	2150	75	
32.00- 33.53	As above with 30% limonite		13022	32.00	33.53	1.52	120	1800	740	
33.53- 35.05	As above with mottled texture		13023	33.53	35.05	1.52	310	3400	270	
35.05- 36.58	Schist, fine grained, weathered and limonite enriched.		13024	35.05	36.58	1.52	350	2350	270	
36.58- 38.10	As above	Trace malachite	13025	36.58	38.10	1.52	200	1400	120	
38.10- 39.62	As above	" "	13026	38.10	39.62	1.52	170	950	90	

Logged Interval (M)	Geological Description	Mineralisation	Sample No. (S Series)	Sample from	Sample to	Interval (M)	Analyses (ppm)			Comments
							Cu	Pb	Zn	
39.52- 41.15	Mica schist, grey fine grained	Trace malachite	13027	39.62	41.15	1.52	160	550	170	
41.15- 42.67	Muscovite schist grey to greenish	" "	13028	41.15	42.67	1.52	410	230	180	
42.67- 44.20	As above with some hematite enrichment	" "	13029	42.67	44.20	1.52	440	220	190	
44.20- 45.72	As above	" "	13030	44.20	45.72	1.52	480	190	240	
45.72- 47.24	As above	Trace malachite	13031	45.72	47.24	1.52	410	210	230	
47.24- 48.77	As above		13032	47.24	48.77	1.52	250	460	310	
48.77- 50.29	Schist, red-brown, fine grained highly enriched in bands of massive hematite and with crystalline hematite in filling vugs.		13033	48.77	50.29	1.52	180	5500	560	
50.29- 51.82	As above		13034	50.29	51.82	1.52	110	940	410	
51.82- 53.34	As above with fewer hematite enriched bands		13035	51.82	53.34	1.52	110	1100	900	
53.34- 54.86	As above		13036	53.34	54.86	1.52	100	2200	1250	
54.86- 56.39	Schist, grey medium grained, highly enriched in hematite in parts	Minor pyrite	13037	54.86	56.39	1.52	160	6000	940	
56.39- 57.91	As above	" "	13038	56.39	57.91	1.52	120	4700	1100	
57.91- 59.44	As above	" "	13039	57.91	59.44	1.52	75	2100	1650	
59.44- 60.96	As above	" "	13040	59.44	60.96	1.52	100	1250	1300	
60.96- 62.48	Muscovite - biotite schist, grey medium grained	" "	13041	60.96	62.48	1.52	160	750	990	
62.48- 64.01	As above	Minor pyrite	13042	62.48	64.01	1.52	110	440	1200	
64.01- 65.53	As above	3% pyrite	13043	64.01	65.53	1.52	170	150	1500	
65.53- 67.06	Schist, dark grey medium grained	Small veinlets of crystalline pyrite 3%	13044	65.53	67.06	1.52	85	390	1200	
67.06- 68.58	As above	" " " "	13045	67.06	68.58	1.52	90	120	1350	
68.58- 70.10	As above	" " " "	13046	68.58	70.10	1.52	90	140	1120	
70.10- 71.63	As above	Pyrite becoming more disseminated	13047	70.10	71.63	1.52	70	160	940	Water table
71.63- 73.15	As above	" " " " 3%	13048	71.63	73.15	1.52	70	60	990	
73.15- 74.68	As above	" " " "	13049	73.15	74.68	1.52	80	50	1000	
74.68- 76.20	As above	" " " "	13050	74.68	76.20	1.52	85	100	1220	
76.20- 77.72	As above with increase in quartz content	" " " "	13051	76.20	77.72	1.52	70	30	1520	
77.72- 79.25	As above		13052	77.72	79.25	1.52	60	150	570	
79.25- 80.77	Schist, dark grey medium grained with quartz.	Pyrite, disseminated and veinlets 7-10% minor magnetite(?) in quartz	13053	79.25	80.77	1.52	70	100	310	
80.77- 82.30	As above with 30% white quartz		13054	80.77	82.30	1.52	55	130	240	
82.30- 83.82	As above but more greissic in texture.	Less pyritic 5-7%	13055	82.30	83.82	1.52	60	45	65	
83.82- 85.34	As above		13056	83.82	85.34	1.52	65	40	170	
85.34- 86.87	As above but less quartz and few fine grained garnets.		13057	85.34	86.87	1.52	55	55	95	
86.87- 88.39	Schist, dark grey medium grained with greissic texture 5% colourless quartz.	Disseminated pyrite 3.5% in schist. Disseminated pyrite and magnetite (?) in quartz	13058	86.87	88.39	1.52	65	45	100	
88.39- 89.92	As above with only minor quartz	Pyrite 3-5%	13059	88.39	89.92	1.52	50	55	280	
89.92- 91.44	As above with minor fine grained garnets	" "	13060	89.92	91.44	1.52	80	60	95	
91.44- 92.96	As above with minor fine grained garnets	" "	13061	91.44	92.96	1.52	70	45	120	
92.96- 94.49	As above with minor fine grained garnets	Pyrite	13062	92.96	94.49	1.52	75	110	240	
94.49- 96.01	As above but no garnets		13063	94.49	96.01	1.52	70	130	180	
96.01- 97.54	As above	Pyrite 2-3%	13064	96.01	97.54	1.52	75	55	220	
97.54- 99.06	As above	"	13065	97.54	99.06	1.52	80	30	210	
99.06- 100.58	As above with few fine grained garnets	"	13066	99.06	100.58	1.52	80	200	170	
100.58- 102.11	As above but no garnets	"	13067	100.58	102.11	1.52	90	75	240	later flow 50 g/hr.

0042

- 3 -

Logged Interval (M)	Geological Description	Mineralisation	Sample No. QS Series	Sample from	Sample to	Interval (m)	Analyses (ppm)			Comments
							Cu	Pb	Zn	
102.11-103.63	As above with 30% quartz	Fine disseminated magnetite in quartz 2-3% pyrite	13068	102.11	103.63	1.52	75	100	170	
103.63-105.16	As above	Pyrite 2-3%	13069	103.63	105.16	1.52	80	140	140	
105.16-106.68	As above	"	13070	105.16	106.68	1.52	85	100	180	
106.68-108.20	Quartz-biotite schist, dark grey green, medium grained. 15% biotite 20% quartz with hematite (?) inclusions.	Pyrite 3-7% disseminated or as stringers parallel to schistosity.	13071	106.68	108.20	1.52	70	140	150	
108.20-109.73	As above with few fine grained garnets.	Pyrite 3-7%	13072	108.20	109.73	1.52	65	90	180	
109.73-111.25	As above	Pyrite 3-7%	13073	109.73	111.25	1.52	75	130	140	
111.25-112.78	As above	Pyrite 3-7%	13074	111.25	112.78	1.52	70	160	190	
112.78-114.30	As above	Pyrite 3-7%	13075	112.78	114.30	1.52	65	110	120	
114.30-115.82	As above	Pyrite 3-5%	13076	114.30	115.82	1.52	60	110	130	
115.82-117.35	As above but with quartz <15%	"	13077	115.82	117.35	1.52	60	85	140	
117.35-118.87	As above with 3% feldspar	"	13078	117.35	118.87	1.52	60	100	150	
118.87-120.40	As above with 1% feldspar	"	13079	118.87	120.40	1.52	65	110	130	
120.40-121.92	As above but no feldspar and quartz 10%	"	13080	120.40	121.92	1.52	60	100	120	
121.92-123.44	As above with trace feldspar and few fine grained garnets	"	13081	121.92	123.44	1.52	65	70	120	

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

PERCUSSION DRILL HOLE LOG

0043

P.D.H.C.2

PROJECT: Mt. Messenger E.L.67
 LOCATION: Campoona Sheet, Grid CI
 CO-ORDINATES: 5830N 940W
 DECLINATION: 60°
 AZIMUTH: N 286°
 COMMENCED: 070474
 COMPLETED: 080574

DEPTH: 121.92 m.
 HOLE SIZE: 152 mm
 CHIP RECOVERY: Good
 CONTRACTOR: Boring Enterprises Pty. Ltd.
 DRILL TYPE: Ingersoll Rand LCCO Drillmaster
 ASSAYS: Ardal
 LOGGED BY: N. Duncan and V. Everle

Logged Interval (M)	Geological Description	Mineralisation	Sample No. (S Series)	Sample from	Sample to	Interval (%)	Analyses (ppm)			Comments
							Cu	Pb	Zn	
0 - 1.52	Reddish clays		13082	0	1.52	1.52	170	110	200	
1.52- 3.05	Schist, crenulated strongly weathered altered to clays		13083	1.52	3.05	1.52	250	28	300	
3.05- 4.57	As above		13084	3.05	4.57	1.52	260	22	350	
4.57- 6.10	As above		13085	4.57	6.10	1.52	290	18	410	
6.10- 7.62	As above		13086	6.10	7.62	1.52	310	20	450	
7.62- 9.14	As above		13087	7.62	9.14	1.52	360	15	510	
9.14- 10.67	As above		13088	9.14	10.67	1.52	370	18	340	
10.67- 12.19	As above		13089	10.67	12.19	1.52	320	10	190	
12.19- 13.72	As above and hematite enriched		13090	12.19	13.72	1.52	270	10	190	
13.72- 15.24	"		13091	13.72	15.24	1.52	240	<5	95	
15.24- 16.76	"		13092	15.24	16.76	1.52	320	5	95	
16.76- 18.29	"		13093	16.76	18.29	1.52	320	22	90	
18.29- 19.81	Schist, highly weathered with limonite and hematite enrichment		13094	18.29	19.81	1.52	260	<5	60	
19.81- 21.34	"		13095	19.81	21.34	1.52	240	<5	65	
21.34- 22.86	"		13096	21.34	22.86	1.52	230	12	70	
22.86- 24.38	From 22.86-53.34 m	From 22.86-53.34 m minor	13097	22.86	24.38	1.52	200	<5	85	
24.38- 25.91	Schists, pale brown to reddish brown fine grained	Fine anhedral magnetite	13098	24.38	25.91	1.52	230	<5	90	
25.91- 27.43	Thinly laminated carrying medium anhedral hematite		13099	25.91	27.43	1.52	240	<5	90	
27.43- 28.96	concentrated in selective bands.		13100	27.43	28.96	1.52	320	<5	100	
28.96- 30.48	Schist is strongly weathered and limonitic stained at times. From		13101	28.96	30.48	1.52	300	<5	100	
30.48- 32.00	45.72-53.34m schists are interbedded		13102	30.48	32.00	1.52	350	<5	170	
32.00- 33.53	with minor thin quartzites, light		13103	32.00	33.53	1.52	330	<5	140	
33.53- 35.05	to dark grey fine grained and siltstone		13104	33.53	35.05	1.52	310	<5	120	
35.05- 36.58	dark grey fine grained thinly laminated		13105	35.05	36.58	1.52	300	<5	120	
36.58- 38.10			13106	36.58	38.10	1.52	280	<5	140	
38.10- 39.62			13107	38.10	39.62	1.52	230	<5	120	
39.62- 41.15			13108	39.62	41.15	1.52	210	5	120	
41.15- 42.67			13109	41.15	42.67	1.52	220	8	120	
42.67- 44.20			13110	42.67	44.20	1.52	270	<5	160	
44.20- 45.72			13111	44.20	45.72	1.52	220	25	180	
45.72- 47.24		From 45.72-53.34m Pyrite 10-15%	13112	45.72	47.24	1.52	120	12	190	
47.24- 48.77		fine to medium euhedral and thin	13113	47.24	48.77	1.52	48	10	230	
48.77- 50.29		veinlets up to 5 mm, both parallel	13114	48.77	50.29	1.52	50	20	190	
50.29- 51.82		to bedding	13115	50.29	51.82	1.52	32	10	200	
51.82- 53.34		Minor pyrite in thin interbedded quartzites	13116	51.82	53.34	1.52	35	5	150	

Logged Interval (M)	Geological Description	Mineralisation	Sample No. GS Series	Sample from	Sample to	Interval (m)	Analyses (ppm)			Comments
							Cu	Pt	Zn	
53.34- 54.86	From 53.34-83.82 m. Schist, strongly weathered to a very fine grained brownish powder with minor thin (<1 cm) bands of white to grey quartzite.		13117	53.34	54.86	1.52	60	25	1050	Water table
54.86- 56.39			13118	54.86	56.39	1.52	55	20	830	casing to
56.39- 57.91			13119	56.39	57.91	1.52	40	12	540	53.34 m.
57.91- 59.44			13120	57.91	59.44	1.52	38	35	450	Water flow
59.44- 60.96			13121	59.44	60.96	1.52	42	5	380	30-50 g/hr.
60.96- 62.48			13122	60.96	62.48	1.52	45	10	230	
62.48- 64.01			13123	62.48	64.01	1.52	60	15	240	
64.01- 65.53			13124	64.01	65.53	1.52	75	<5	200	
65.53- 67.06			13125	65.53	67.06	1.52	55	13	200	
67.06- 68.58			13126	67.06	68.58	1.52	70	45	410	
68.58- 70.10			13127	68.58	70.10	1.52	60	25	350	
70.10- 71.63			13128	70.10	71.63	1.52	80	65	650	
71.63- 73.15			13129	71.63	73.15	1.52	85	60	640	
73.15- 74.68			13130	73.15	74.68	1.52	90	120	530	
74.68- 76.20			13131	74.68	76.20	1.52	50	50	500	
76.20- 77.72			13132	76.20	77.72	1.52	80	50	350	
77.72- 79.25	From 83.82-89.92 m. Siltstones, dark gray fine grained thinly laminated lightly weathered and with minor thin quartzite interbeds and limonite.	Pyrite 7-10% fine euhedral grains concentrated parallel to bedding and massive bands up to 2 mm. Pyrite 5-7%	13133	77.72	79.25	1.52	160	55	420	
79.25- 80.77			13134	79.25	80.77	1.52	75	35	570	
80.77- 82.30			13135	80.77	82.30	1.52	100	40	480	
82.30- 83.82			13136	82.30	83.82	1.52	340	800	450	
83.82- 85.34			13137	83.82	85.34	1.52	850	8000	1050	
85.34- 86.87			13138	85.34	86.87	1.52	720	7000	950	
86.87- 88.39			13139	86.87	88.39	1.52	400	3500	600	
88.39- 89.92			13140	88.39	89.92	1.52	300	2000	470	
89.92- 91.44			13141	89.92	91.44	1.52	200	900	690	
91.44- 92.96	From 89.92 m. - 121.92 m. Siltstones, fine grained, thinly laminated with coarser micas at times and interbedded quartzites, grey to green. Unit appears to be graphitic.	Pyrite 5% Pyrite 7-10% Pyrite 7-10% Pyrite 12-15%, Trace sphalerite Pyrite 7-10% Pyrite 10-12% Pyrite 7-10% Pyrite 7-10% Pyrite 5% Pyrite 7-10% Pyrite 7-10% Pyrite 5% Pyrite 7-10% Pyrite 7-10% Pyrite 7-10% Pyrite 5% Pyrite 5% Pyrite 5% Pyrite 5% Pyrite 2-3% Pyrite 2-3%	13142	91.44	92.96	1.52	140	320	710	
92.96- 94.49			13143	92.96	94.49	1.52	110	230	470	
94.49- 96.01			13144	94.49	96.01	1.52	120	320	580	
96.01- 97.54			13145	96.01	97.54	1.52	140	270	430	
97.54- 99.06			13146	97.54	99.06	1.52	120	210	630	
99.06- 100.58			13147	99.06	100.58	1.52	130	180	630	
100.58- 102.11			13148	100.58	102.11	1.52	120	130	740	
102.11- 103.63			13149	102.11	103.63	1.52	130	140	850	
103.63- 105.16			13150	103.63	105.16	1.52	150	470	2200	
105.16- 106.68			13151	105.16	106.68	1.52	240	1400	3150	
106.68- 108.20			13152	106.68	108.20	1.52	250	1400	2450	
108.20- 109.73			13153	108.20	109.73	1.52	260	1250	2050	
109.73- 111.25			13154	109.73	111.25	1.52	280	1250	2200	
111.25- 112.78			13155	111.25	112.78	1.52	200	850	1700	
112.78- 114.30			13156	112.78	114.30	1.52	230	650	1540	
114.30- 115.82			13157	114.30	115.82	1.52	220	460	1700	
115.82- 117.35			13158	115.82	117.35	1.52	220	700	2400	
117.35- 118.87			13159	117.35	118.87	1.52	200	550	1500	
118.87- 120.40			13160	118.87	120.40	1.52	260	600	2150	
120.40- 121.92			13161	120.40	121.92	1.52	270	390	1700	

CARFENTARIA EXPLORATION COMPANY PTY. LTD.

0040

PERCUSSION DRILL HOLE LOG

FDH/C3

PROJECT: Mt. Messenger EL67
 LOCATION: Campcoona Sheet Grid C1.
 CO-ORDINATES: 8185N, 1672W
 DECLINATION: 60°
 AZIMUTH: NM 188°
 COMMENCED: 09/07/74
 COMPLETED: 10/07/74

DEPTH: 74.25 m.
 HOLE SIZE: 190.5 mm. (roller bit) to 33.53 m. then 152.4 mm. hammer to end
 CHIP RECOVERY: Fair
 CONTRACTOR: Boring Enterprises Pty. Ltd.
 DRILL TYPE: Ingersoll Rand LKCO Drillmaster
 ASSAYS: Amel
 LOGGED BY: C. Gilbert

Logged Interval (M)	Geological Description	Mineralisation	Sample No. QS Series	Sample from	Sample to	Interval (M)	Analyses (ppm)			Comments
							Cu	Pb	Zn	
0 - 1.52	From 0-3.05m Quartz-mica schist,		13162	0	1.52	1.52	100	75	190	
1.52- 3.05	weathered white to grey very fine grained with minor quartzite bands.		13163	1.52	3.05	1.52	120	60	170	
3.05- 4.57	From 3.05 m - 6.10 m Mica schist, fine		13164	3.05	4.57	1.52	120	75	230	
4.57- 6.10	grained weathered with some limonite.		13165	4.57	6.10	1.52	140	30	300	
6.10- 7.62	From 6.10 - 16.76 m Sandstone, brown	Manganese staining & small lenses	13166	6.10	7.62	1.52	100	45	320	
7.62- 9.14	very fine grained with quartzite	Magnetite 1% disseminated over	13167	7.62	9.14	1.52	75	35	300	
9.14- 10.67	interbeds of 2-3 mm. width	interval.	13168	9.14	10.67	1.52	90	22	500	
10.67- 12.19			13169	10.67	12.19	1.52	95	25	800	
12.19- 13.72			13170	12.19	13.72	1.52	110	30	850	
13.72- 15.24			13171	13.72	15.24	1.52	130	50	1250	
15.24- 16.76			13172	15.24	16.76	1.52	130	100	940	
16.76- 18.29	From 16.76-21.34m Siltstone, reddish		13173	16.76	18.29	1.52	130	90	540	
18.29- 19.81	fine grained strongly weathered	Magnetite 1% in interval	13174	18.29	19.81	1.52	170	65	470	
19.81- 21.34	with thin quartzite interbeds (approx. 2mm) Chlorite developed in schistosity planes.		13175	19.81	21.34	1.52	220	45	850	
21.34- 22.86	From 21.34-27.43m Siltstone, grey	Pseudomorphs of limonite after	13176	21.34	22.86	1.52	230	45	760	
22.86- 24.38	fine grained with thin (2 mm.)	pyrite (?) over interval.	13177	22.86	24.38	1.52	240	120	800	
24.38- 25.91	quartzite interbeds.	Magnetite 1% disseminated through	13178	24.38	25.91	1.52	220	1450	700	
25.91- 27.43	Greenish and bluish clays present.	interval.	13179	25.91	27.43	1.52	240	1550	710	
27.43- 28.96	From 27.43-30.48m. Micaceous	Magnetite 1% over interval.	13180	27.43	28.96	1.52	220	850	300	
28.96- 30.48	slate, dark red fine grained with quartzite interbeds.		13181	28.96	30.48	1.52	170	420	900	Casing run to 30.48 m.
30.48- 32.00			13182				-	-	-	Cave in sample lost
32.00- 33.53			13183				-	-	-	Cave in sample lost
33.53- 35.05	From 33.53-38.10 m. Siltstone, dark	Magnetite 1-2%	13184	33.53	35.05	1.52	70	100	1900	
35.05- 36.58	grey fine grained with minor	Magnetite 1-2%	13185	35.05	36.58	1.52	50	60	1700	
36.58- 38.10	epidote and/or chlorite and thin interbedded white quartzites	Magnetite 5% fine anhedral	13186	36.58	38.10	1.52	45	45	800	
38.10- 39.62	From 38.10-44.20 m Siltstone, dark		13187	38.10	39.62	1.52	50	45	1050	Water table
39.62- 41.15	grey fine grained with minor	Magnetite 5-7% over interval	13188	39.62	41.15	1.52	50	35	650	
41.15- 42.67	(1-2 mm) quartzite interbeds		13189	41.15	42.67	1.52	28	25	320	Water flow 50 g/hr.
42.67- 44.20			13190	42.67	44.20	1.52	18	12	210	
44.20- 45.72	From 44.20-51.82 m Siltstone, dark	Magnetite 5% fine anhedral	13191	44.20	45.72	1.52	25	28	260	
45.72- 47.24	grey massive fine grained grading almost to slate, thinly laminated.	disseminated in rock over interval	13192	45.72	47.24	1.52	32	32	270	
47.24- 48.77	Patches of light green chlorite through rock.		13193	47.24	48.77	1.52	35	32	280	

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Logged Interval (m)	Geological Description	Mineralisation	Sample No. QS Series	Sample from	Sample to	Interval (m)	Analyses (ppm)			Comments
							Cu	Pb	Zn	
48.77- 50.29	Minor thin (2mm) quartzite interbeds		13194	48.77	50.29	1.52	35	40	230	
50.29- 51.82			13195	50.29	51.82	1.52	35	25	260	
51.82- 53.34	From 51.82m - 56.59m Siltstone,	Magnetite 5% over interval.	13196	51.82	53.34	1.52	28	30	170	
53.34- 54.86	dark grey massive fine grained,	Pyrite <1% over interval.	13197	53.34	54.86	1.52	28	20	140	
54.86- 56.39	thinly laminated		13198	54.86	56.39	1.52	28	20	160	
56.39- 57.91	From 56.39 - 60.96m Micaceous	Pyrite - minor fine euhedral to	13199	56.39	57.91	1.52	22	20	220	
57.91- 59.44	slate, dark grey, fine grained	subhedral over interval	13200	57.91	59.44	1.52	38	45	330	
59.44- 60.96	with minor quartzite interbeds	Magnetite 3-5% over interval	13201	59.44	60.96	1.52	50	50	600	
60.96- 62.48	From 60.96 - 64.01m Micaceous	Magnetite 2-3% over interval	13202	60.96	62.48	1.52	55	70	720	
62.48- 64.01	slate, dark grey, fine grained	Pyrite, minor amount of very fine	13203	62.48	64.01	1.52	30	65	590	
64.01- 65.53	with minor fine euhedral garnet	disseminated euhedral grains over interval	13204	64.01	65.53	1.52	60	70	490	
65.53- 67.06			13205	65.53	67.06	1.52	45	45	350	
67.06- 68.58			13206	67.06	68.58	1.52	35	30	580	
68.58- 70.10	From 68.58 - 76.20m Micaceous	Magnetite 5-7% over interval	13207	68.58	70.10	1.52	50	60	1500	
70.10- 71.63	slate, dark grey, fine grained		13208	70.10	71.63	1.52	42	40	380	Water flow
71.63- 73.15	with thin (1mm) white quartzite		13209	71.63	73.15	1.52	45	30	340	300 g/hr.
73.15- 74.68	interbeds and light grey fine		13210	73.15	74.68	1.52	65	60	410	
74.68- 76.20	grained limonite stained siltstone.		13211	74.68	76.20	1.52	300	230	1200	
	Thin interbeds of mica schist with some chlorite.									
76.20- 77.72	From 76.20 - 79.25m Mica schist,	Pyrite 1-2% very fine grained	13212	76.20	77.72	1.52	300	130	850	Water flow
77.72- 79.25	dark grey, fine grained with minor thin quartzite interbeds carrying fine magnetite(?)	over interval	13213	77.72	79.25	1.52	140	110	440	500 g/hr. Hole collapsed.

0047

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

PERCUSSION DRILL HOLE LOG

PDH/C4

PROJECT: Mt. Messenger EL67
 LOCATION: Campoona Sheet, Grid C1
 CO-ORDINATES: 7300N 1000W
 DECLINATION: 60°
 AZIMUTH: NM
 COMMENCED: 110574
 COMPLETED: 120574

DEPTH: 106.68m.
 HOLE SIZE: 190.5mm to 6.10m, 152.4mm to end of hole.
 CHIP RECOVERY: Fair
 CONTRACTOR: Boring Enterprises Pty. Ltd.
 DRILL TYPE: Ingersoll Rand 1000 Drillmaster
 ASSAYS: Amdel
 LOGGED BY: C. Gilbert

Logged Interval (M)	Geological Description	Mineralisation	Sample No. QS Series	Sample from	Sample to	Interval (m)	Analyses (ppm)			Comments
							Cu	Pt	Zn	
0 - 1.52	From 0 - 3.05m Siltstone, light grey, massive fine grained with limonite staining.	Minor magnetite, very fine grained over interval.	13214	0	1.52	1.52	280	140	180	
1.52- 3.05			13215	1.52	3.05	1.52	360	230	150	
3.05- 4.57	From 3.05 - 15.24m Micaceous siltstone, light grey fine grained with sericite (?) mica and thin interbeds (1-2mm) of quartzite. Generally strongly weathered with some hematite	Minor magnetite (?) fine grained in quartzites over interval.	13216	3.05	4.57	1.52	220	180	320	
4.57- 6.10			13217	4.57	6.10	1.52	160	340	300	
6.10- 7.62			13218	6.10	7.62	1.52	140	600	150	
7.62- 9.14			13219	7.62	9.14	1.52	120	700	130	
9.14- 10.67			13220	9.14	10.67	1.52	110	1000	100	
10.67- 12.19			13221	10.67	12.19	1.52	150	950	210	
12.19- 13.72			13222	12.19	13.72	1.52	170	600	120	
13.72- 15.24			13223	13.72	15.24	1.52	270	320	150	
15.24- 16.76	From 15.24 - 24.38m Mica schist, dark grey with thin (2mm) quartzite interbeds. Generally strongly weathered with hematite imparting red colour to schist.	Minor magnetite(?) fine grained in quartzites over interval	13224	15.24	16.76	1.52	270	400	120	
16.76- 18.29			13225	16.76	18.29	1.52	230	1050	170	
18.29- 19.81			13226	18.29	19.81	1.52	220	1650	190	
19.81- 21.34			13227	19.81	21.34	1.52	360	700	400	
21.34- 22.86			13228	21.34	22.86	1.52	360	2250	220	
22.86- 24.38			13229	22.86	24.38	1.52	290	2100	130	
24.38- 25.91	From 24.38 - 28.96m Mica schist, dark grey with thin minor segregation bands of feldspathic(?) material. Thin interbedded quartzites. Less hematite staining.	Minor magnetite(?) in quartzites over interval.	13230	24.38	25.91	1.52	320	4750	170	
25.91- 27.43			13231	25.91	27.43	1.52	380	3050	210	
27.43- 28.96			13232	27.43	28.96	1.52	260	1750	110	
28.96- 30.48	From 28.96 - 32.00m Schist, dark grey, more massive with dark grey quartzite bands (3-5mm)		13233	28.96	30.48	1.52	570	1750	120	
30.48- 32.00			13234	30.48	32.00	1.52	1150	2500	250	
32.00-33.53	From 32.00m - 35.05m Schist, grey somewhat massive with minor quartzite bands up to 1 cm. width	True malachite over interval	13235	32.00	33.53	1.52	1200	1700	110	
33.53- 35.05			13236	33.53	35.05	1.52	1320	1150	140	
35.05- 36.58	From 35.05 - 39.62m Schist, grey with some hematite staining.	Minor malachite over interval	13237	35.05	36.58	1.52	1900	1450	220	
36.58- 38.10			13238	36.58	38.10	1.52	2650	1400	360	
38.10- 39.62			13239	38.10	39.62	1.52	890	1400	120	
39.62- 41.15	From 39.62 - 45.72 m. Mica schist, fine grained grey with thin (3mm) quartzite interbeds	Trace fine magnetite(?) in quartzite	13240	39.62	41.15	1.52	860	2000	75	
41.15- 42.67			13241	41.15	42.67	1.52	490	1800	75	
42.67- 44.20			13242	42.67	44.20	1.52	470	1800	220	
44.20- 45.72			13243	44.20	45.72	1.52	550	2000	270	
45.72- 47.24	From 45.72 - 50.29m. Mica schist, fine grained and white to grey quartzite interbeds flanked by weathered feldspar(?)	Trace malachite(?)	13244	45.72	47.24	1.52	630	1550	370	Water table at
47.24- 48.77			13245	47.24	48.77	1.52	440	1250	170	48.33m
48.77- 50.29			13246	48.77	50.29	1.52	290	1100	120	

Logged Interval (M)	Geological Description	Mineralisation	Sample No. QS Series	Sample from	Sample to	Interval (m)	Analyses (ppm)			Comments
							Cu	Pb	Zn	
50.29- 51.82	From 50.29 - 53.34m Schist, somewhat massive, with thin laminations of whitish siltstone. Minor quartzite interbeds	Minor fine magnetite in quartzite over interval	13247	50.29	51.82	1.52	390	1450	140	Water flow 10-20 g/hr.
51.82- 53.34			13248	51.82	53.34	1.52	820	2050	120	
53.34- 54.86			13249	53.34	54.86	1.52	3850	1700	180	
54.86- 56.39			13250	54.86	56.39	1.52	6200	2250	350	
56.39- 57.91	From 53.34 - 57.91m Micaceous siltstone, medium grained grey becoming coarser towards bottom. Minor quartzites associated with pyrite	Pyrite <1% Pyrite 1-2% Pyrite 2-3%	13251	56.39	57.91	1.52	6400	3200	210	
57.91- 59.44	From 57.91 - 64.01m Schist, medium grained, grey weathered in part with minor quartzite bands carrying up to 30% black very fine grains (magnetite?)	Pyrite 5% Pyrite 2-3% Pyrite 5-7% Pyrite 1-2%	13252	57.91	59.44	1.52	3400	1750	190	
59.44- 60.96			13253	59.44	60.96	1.52	1850	1250	140	
60.96- 62.48			13254	60.96	62.48	1.52	1480	2500	100	
62.48- 64.01			13255	62.48	64.01	1.52	3550	3250	160	
64.01- 65.53	From 64.01 - 71.63m Siltstone, medium grained, dark grey and quartzite in equal proportions. Disseminated pyrite fine to medium grained associated with quartzite.	Pyrite 1-2% Pyrite 1-2% Pyrite 3-5% Pyrite 3-5% Pyrite <1%	13256	64.01	65.53	1.52	1020	2000	360	
65.53- 67.06			13257	65.53	67.06	1.52	1450	3900	880	
67.06- 68.58			13258	67.06	68.58	1.52	1450	3400	700	
68.58- 70.10			13259	68.58	70.10	1.52	1380	2250	440	
70.10- 71.63	From 71.63 - 74.68m Siltstone, fine grained, grey, thinly laminated and 30% quartz chips. Hematite stains.	Pseudomorphs of limonite after pyrite over interval.	13260	70.10	71.63	1.52	720	2750	320	
71.63- 73.15			13261	71.63	73.15	1.52	840	2800	210	
73.15- 74.68			13262	73.15	74.68	1.52	620	2900	470	
74.68- 76.20			13263	74.68	76.20	1.52	500	2550	320	
76.20- 77.72	From 76.20 - 79.25m Siltstone, fine grained with lighter bands carrying pseudomorphs of limonite after pyrite. 30-40% quartz.	Pyrite 1-2% Magnetite <1% over interval.	13264	76.20	77.72	1.52	730	2000	430	
77.72- 79.25			13265	77.72	79.25	1.52	600	2500	500	
79.25- 80.77			13266	79.25	80.77	1.52	500	3200	1100	
80.77- 82.30			13267	80.77	82.30	1.52	420	2250	800	
82.30- 83.82	From 82.30 - 83.82m Siltstone, medium grained somewhat massive becoming more micaceous towards bottom and 30% quartz and quartzite. Medium to coarse grained pyrite.	Pyrite 1% Pyrite 1%	13268	82.30	83.82	1.52	460	2650	920	
83.82- 85.34	From 83.82m - 92.96m. Mica schist, fine grained dark grey becoming more micaceous with quartzite interbeds up to 2 cm. with pyrite disseminated throughout schist.	Pyrite <1% Pyrite 1-2% Pyrite 1-2% Pyrite 1% Abundant pseudomorphs of limonite after pyrite	13269	83.82	85.34	1.52	950	1750	620	
85.34- 86.87			13270	85.34	86.87	1.52	330	1200	720	
86.87- 88.39			13271	86.87	88.39	1.52	200	1250	750	
88.39- 89.92			13272	88.39	89.92	1.52	270	950	900	Cave chips 5-10%
89.92- 91.44	From 89.92 - 92.96m. Mica schist, very fine grained with quartzite interbeds associated with fine disseminated pyrite	Pyrite 1% Trace malachite Pyrite 1% Pyrite 1-2%	13273	89.92	91.44	1.52	220	830	890	
91.44- 92.96			13274	91.44	92.96	1.52	750	1100	750	Cave chips 10%
92.96- 94.49			13275	92.96	94.49	1.52	290	650	850	From 92.96 - 105.16m.
94.49- 96.01			13276	94.49	96.01	1.52	200	390	840	Cave chips 5-10%
96.01- 97.54		Pyrite 1% Pyrite 1-2% Pyrite 1-2% Pyrite 1-2%	13277	96.01	97.54	1.52	140	270	950	
97.54- 99.06			13278	97.54	99.06	1.52	150	310	1080	
99.06- 100.58			13279	99.06	100.58	1.52	290	250	920	
100.58- 102.11			13280	100.58	102.11	1.52	400	320	1030	
102.11- 103.63		Pyrite 1-2% Trace malachite (?) Pyrite <1% Pyrite 1% Pyrite 1%	13281	102.11	103.63	1.52	300	220	750	
103.63- 105.16			13282	103.63	105.16	1.52	180	240	500	Water flow 150-200 g/hr.
105.16- 106.68			13283	105.16	106.68	1.52	300	380	450	Water flow 400-500 g/hr. and 20% cave chips

STATEMENT OF EXPENDITURE
FOR THE QUARTER ENDED NOVEMBER 25, 1974

	\$	
Administration	1 269	
Freight	11	
Hire of Plant	157	
Operating Labour	1 600	
Stores	166	
Transport	106	
Travelling	97	
	<u> </u>	3 406

Previously Reported

1st Quarter - February 1974 -	9 279	
2nd Quarter - May 1974 -	27 332	
3rd Quarter - August 1974 -	11 154	
	<u> </u>	47 765
Total Current term from November 25, 1973		51 171
Reported prior to November 25, 1973		<u>12 806</u>
		<u><u>\$63 977</u></u>

50

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

MINING TENEMENT

PROGRESS REPORT

EXPLORATION LICENCE NO.67 "MOUNT MESSENGER" - S.A.

QUARTER ENDED FEBRUARY 24, 1975

DATE: MARCH 1975

COPY: DEPARTMENT OF MINES



CARPENTARIA EXPLORATION COMPANY PTY. LTD.EXPLORATION LICENCE NO. 67 "MOUNT MESSENGER" - S.A.PROGRESS REPORT FOR QUARTER ENDING FEBRUARY 24, 19751. INTRODUCTION

During the quarter geophysical surveys were commenced on the Campoona Grid, letters were sent to all landholders in the western half of Exploration Licence No. 67 requesting permission to carry out work on their properties, and a regional mapping programme of the entire Exploration Licence was commenced.

2. TERMS AND CONDITIONS

Exploration Licence No. 67 granted to Carpentaria Exploration Company Pty. Ltd. for a term of 1 year on May 25, 1973, was extended for a further year from May 25, 1974.

The Exploration Licence known as "Mount Messenger" covers an area of 1352 km². The township of Cleve lies inside the southern boundary which extends nearly to Powell.

Apart from the usual conditions it was agreed under Schedule B that the Company shall undertake, as far as possible, continuous exploration of the area such that a minimum of \$40 000 is expended on geological and geophysical surveys and drilling operations during the current term.

3. GEOPHYSICAL SURVEYS

During the latter part of November, geophysical surveys using the SE-300 EM equipment and an induced polarization survey were commenced.

3. GEOPHYSICAL SURVEYS (cont.)

The EM survey was abandoned due to a malfunction in the equipment and the induced polarization survey was postponed due to crops not harvested and land-holders fears of fire in the stubble from the induced polarization generator during hot weather.

4. TITLE SEARCH

A title search has been made of the land contained within Exploration Licence No. 67 and all landowners and occupiers contacted by letter requesting permission to enter cultivated land for the purposes of exploration.

This is being followed up by contacting each land-holder whilst in the field. Apart from a couple of unfavourable replies (including one refusal) most land-holders have been extremely co-operative.

5. GEOLOGICAL MAPPING

In early February, geological mapping of the entire Exploration Licence No. 67 commenced using enlarged aerial photographs at a 1:20 000 scale.

Currently 3 geologists are engaged on this work which is expected to continue until early April.

6. FUTURE WORK

In the coming quarter the geological mapping will be completed and followed by soil sampling of ridges and spurs in the more favourable areas.

It is intended to complete the previously commenced geophysical surveys, namely the EM and induced polarization initially over the Campoona Grid in the north-west of the Exploration Licence.

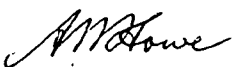
CARPENTARIA EXPLORATION COMPANY PTY.LTD.

0050

EXPLORATION LICENCE NO.67 "MOUNT MESSENGER"

EXPENDITURE FOR QUARTER ENDED FEBRUARY 24, 1975

Administration	\$ 2 101
Hire of Plant	431
Operating Labour	5 795
Stores	679
Transport	288
Travelling	340
<u>Total This Quarter</u>	9 634
Quarter to August 24, 1974	11 154
Quarter to November 24, 1974	3 406
<u>Total This Term</u>	24 194
Previous Term	49 417
<u>Total To Date</u>	\$ 73 611


.....
A.W. Howe,
Administration Manager

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CARPENTARIA EXPLORATION COMPANY PTY. LTD.

MINING TENEMENT

PROGRESS REPORT

EXPLORATION LICENCE NO.67 "MOUNT MESSENGER", S.A.

FINAL REPORT FOR QUARTER ENDED MAY 25, 1975

DATE: JULY 1975

COPY: MINES DEPARTMENT

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

EXPLORATION LICENCE NO. 67 "MOUNT MESSENGER", S.A.

FINAL REPORT FOR QUARTER ENDED MAY 25, 1975

1. INTRODUCTION

During the quarter geological mapping of the western part of Exploration Licence No. 67 was continued and as a follow-up to letters sent to landowners previously personal visits were made before entering properties.

2. TERMS AND CONDITIONS

Exploration Licence No. 67 was granted to Carpentaria Exploration Company Pty. Ltd. for a term of one year on May 25, 1973 and was extended for a further year from May 25, 1974.

The Exploration Licence known as "Mount Messenger" covers an area of 1352 km² over the Cleve Uplands. The Township of Cleve lies inside the southern boundary which extends nearly to Cowell.

Apart from the usual conditions it was agreed under Schedule B that the Company would undertake, as far as possible, continuous exploration of the area such that a minimum of \$40 000 is expended on geological and geophysical surveys and drilling operations during the current term.

3. EXPLORATION

During the quarter geological mapping at a scale of 1:20 000 was continuously carried out by three geologists and work on the western part of Exploration Licence No. 67 is now complete.

A geological map at a scale of 1:20 000 is currently being compiled. During mapping a large number of rock samples were collected and these are currently being examined to select samples for petrology and/or geochemical analysis if warranted.

Induced polarization and electromagnetic surveys commenced in the previous quarter have been suspended until regional investigations have been completed. The results of other electromagnetic surveys carried out on Eyre Peninsula are being examined to determine the usefulness of the method.

-2-

3. EXPLORATION CONT.

A plan is also being compiled to show the distribution of bores and soaks. Should this distribution be satisfactory and the bores accessible a programme of groundwater sampling will be commenced.



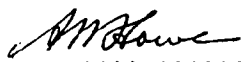
.....
A.W. HOWE,
ADMINISTRATION MANAGER

CARPENTARIA EXPLORATION COMPANY PTY.LTD.EXPLORATION LICENCE NO.67 "MOUNT MESSENGER"FINAL STATEMENT OF EXPENDITURE FOR QUARTER ENDED MAY 25, 1975.

	\$	
Administration	4 024	
Assaying	44	
Freight	13	
Plant Hire	735	
Operating Labour	9 127	
Stores	629	
Transportation	1 083	
Travelling	38	
<u>TOTAL THIS QUARTER</u>		\$ 15 693

PREVIOUSLY REPORTED

Quarter ended August 1974	11 154	
Quarter ended November 1974	3 406	
Quarter ended February 1975	9 634	24 194
Total Current Term		39 887
Reported prior to May 25, 1974		49 417
		\$ 89 304

.....

A.W. HOWE,
ADMINISTRATION MANAGER

CARPENTARIA EXPLORATION CO Pty Ltd.

EL. 67 - MOUNT MESSENGER

58

ENV. 2296(II)

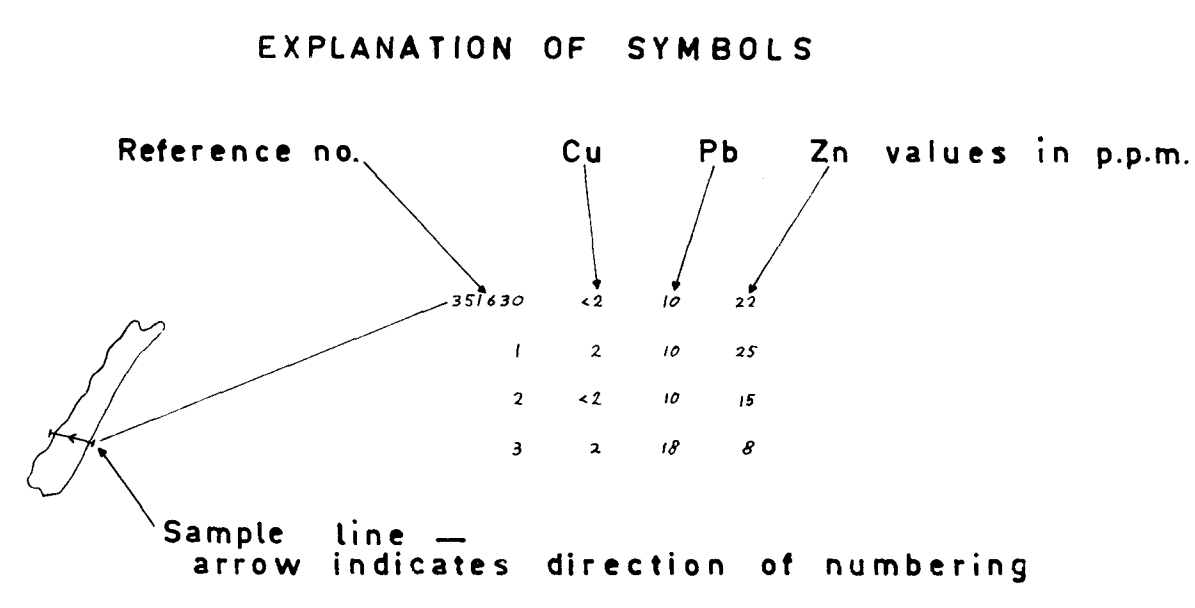
DRG. No.

1	GRID LOCATION PLAN	15271
2	CAMPBONA GRID C1 & C2 GEOCH. Cu VALUES	15272
3	" " " " " Zn "	15273
4	" " " " " Pb "	15274
5	" " " " SAMPLE NUMBERS	15275
6	MANGALO GRID M1 GEOCH. Pb VALUES	15292
7	" " " " " Cu "	15293
8	" " " " " Zn "	15294
9	" " " " SAMPLE NUMBERS	15295
10	CAMPBONA GRID C2 'X' SECTION PDH/C1	15287
11	" " " " " PDH/C2	15288
12	" " " " " PDH/C3	15289
13	" " " " " PDH/C4	15290

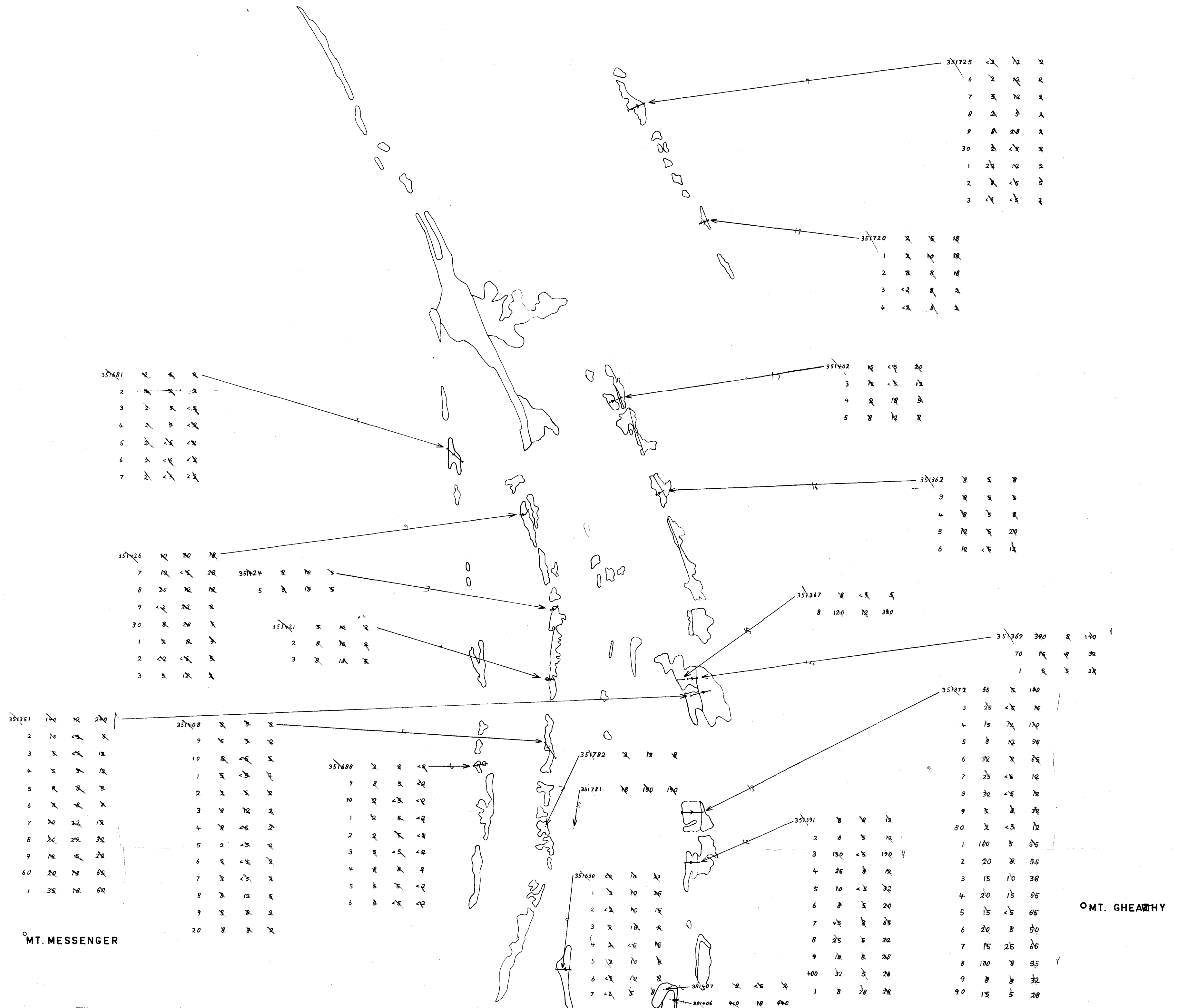


2296(F)-1

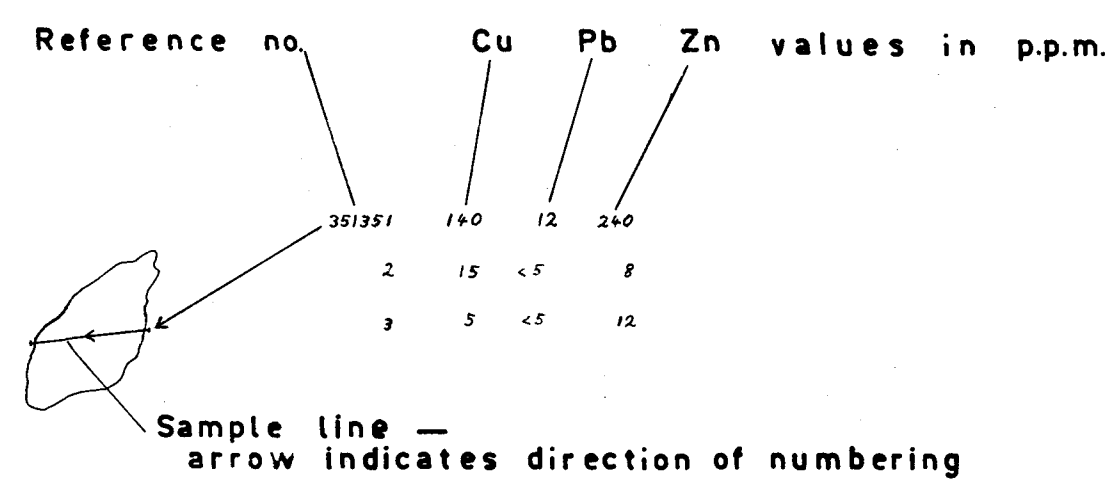
CARPENTARIA EXPLORATION COMPANY PTY LTD.
 COWELL 1:63360 SHEET
 Geochemical Sampling of
 Rock Units in the
 Hutchison Group
 SCALE: 1 in = 1 mile
 DATE: 2.8.73
 DRAWN: 15.2.05



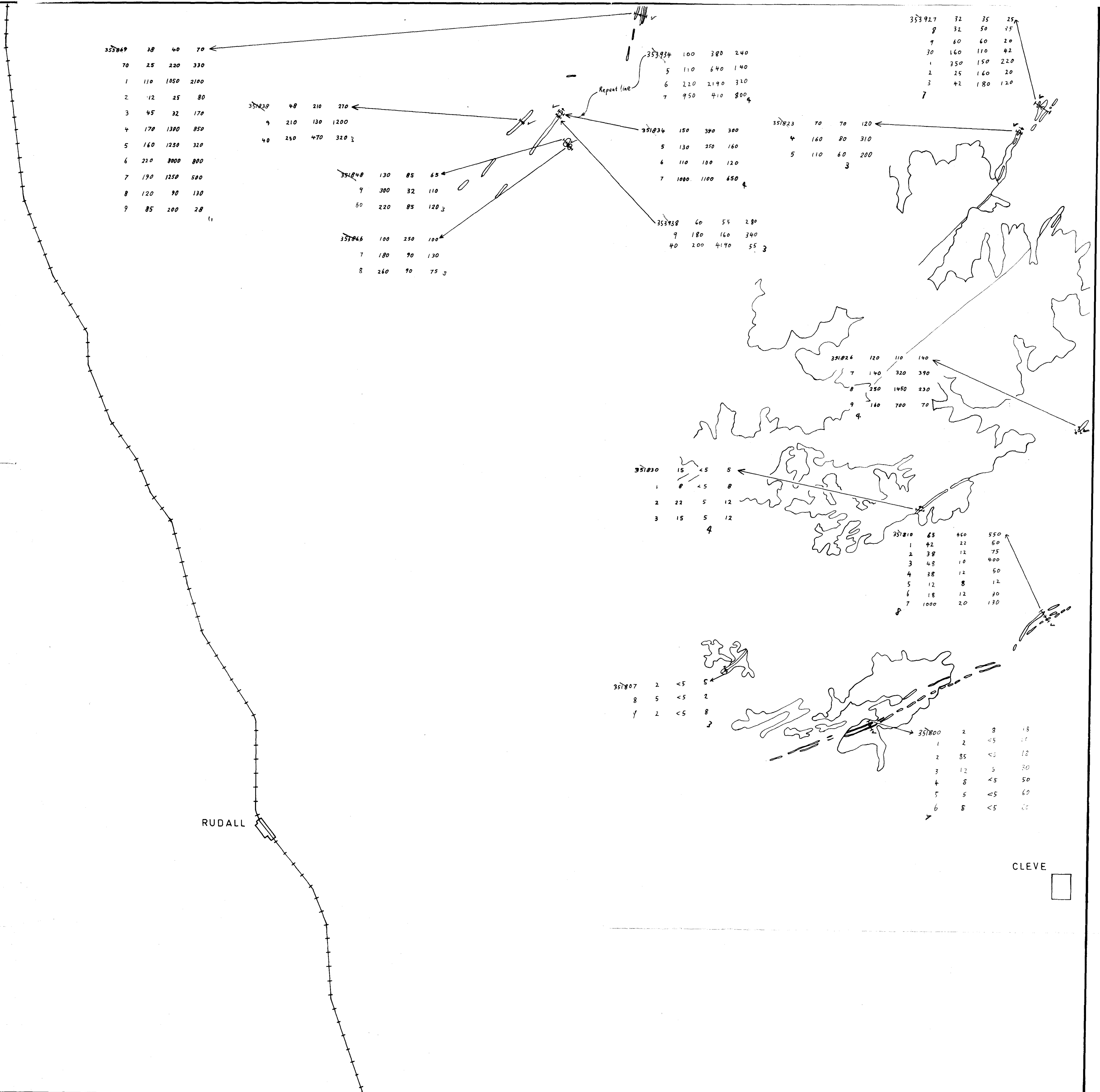
2296(I)-2



EXPLANATION OF SYMBOLS



2296(5)-3



EXPLANATION OF SYMBOLS

Reference no. Cu Pb Zn values in p.p.m.

353838	48	210	270
9	210	130	1200
40	250	470	320

Sample line — arrow indicates direction of numbering

REVISION	SCALE: 1: 63360
GEO	
DRAWN: E. A. D	
CHECKED:	
DATE: 10.4.73	
MICROFILMED:	
ROLL NO:	
DRG NO: 15208	

CARPENTARIA EXPLORATION COMPANY PTY LTD

RUDALL 1:63360 SHEET
Geochemical Sampling of
Rock Units in The
Hutchison Group

MINING FIELD or DISTRICT: CLEVE — EYRE PENINSULA



EXPLANATION OF SYMBOLS

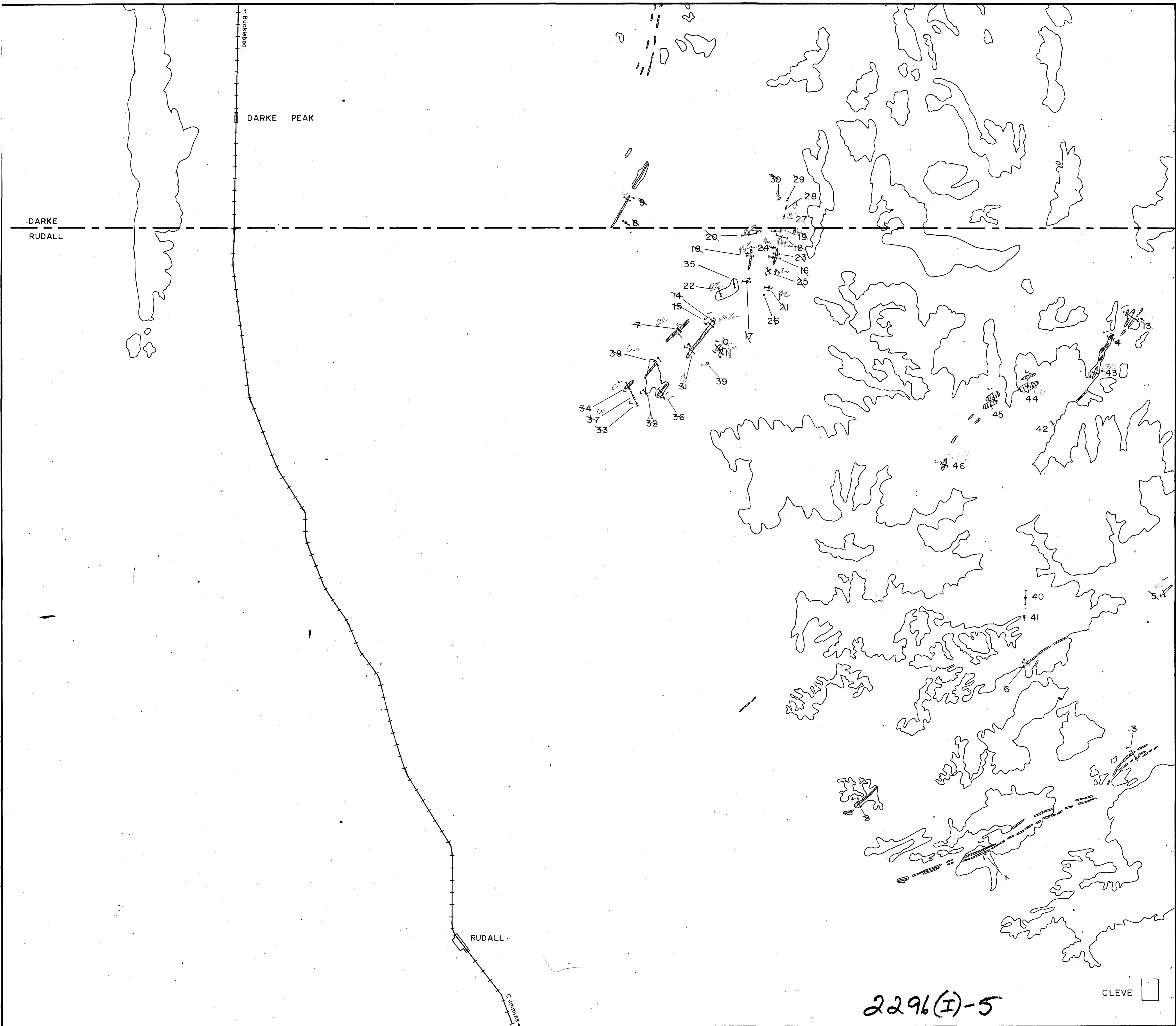
Reference no. Cu Pb Zn values in p.p.m.

Reference no.	Cu	Pb	Zn
1	21	35	35
2	2	35	15
3	8	8	12
4	15	100	12

Sample line — arrow indicates direction of numbering

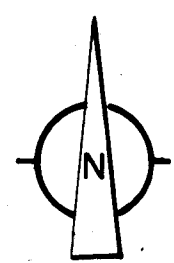
REVISION	SCALE: 1:63 360
GEO	
DRAWN: E. A. D.	
CHECKED:	
DATE: 10.4.73	
MICROFILMED:	
ROLL No.	
DRG No. 15209	
CARPENTARIA EXPLORATION COMPANY PTY LTD	
DARKE 1:63360 SHEET	
Geochemical Sampling of	
Rock Units in the	
Hutchison Group	
MINING FIELD or DISTRICT: EYRE PENINSULA S.A.	

2296(5)-4



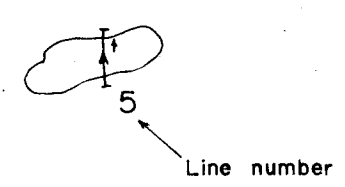
2296(I)-5

CLEVE



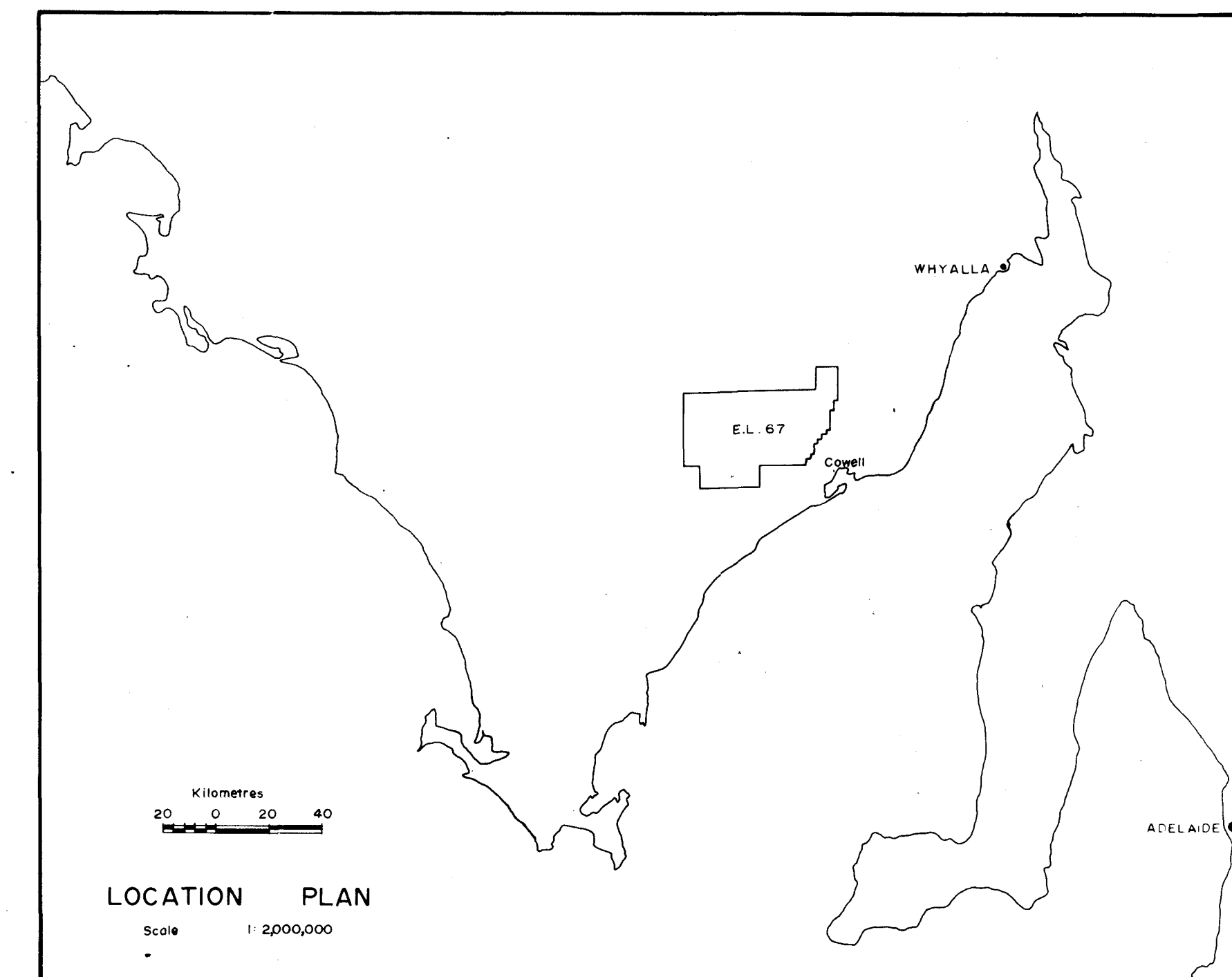
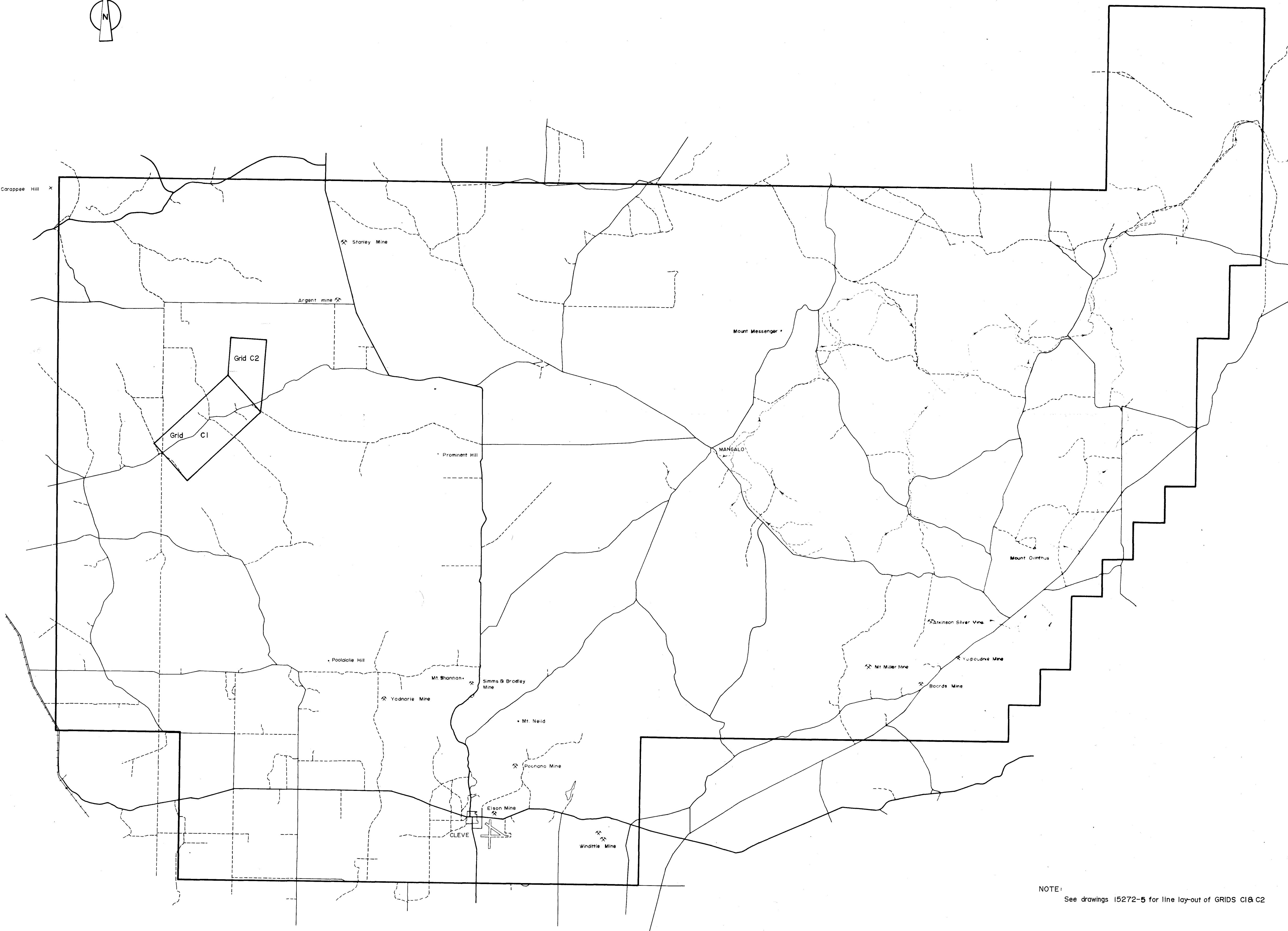
LEGEND

Boundary of 1:63,360 Sheets - - - - - Sample line - arrow indicates direction of numbering
 Outcrop boundary of rocks of PreCambrian age
 Haematite quartzite
 Chip samples taken at 1m intervals and bulked over 20m. Soil samples taken at 5m intervals and bulked over 20m.



NB. Sample Results for lines 1-46 included in Quarterly Report to 25th February 1974, E.L.67

REVISION	SCALE: 1:63,360	CARPENTARIA EXPLORATION COMPANY PTY LTD
	GEO. T.M., V.R.E., P.C.	Geochemical Sampling of Rock Units in the Hutchison Group EYRE PENINSULA
	DRAWN: V.R.E.	
	CHECKED:	
	DATE: 21-2-74	
	MICROFILMED:	
	ROLL N°:	MINING FIELD or DISTRICT: E.L. 67 Mt. Messenger
		ORG. N°: 15264



LEGEND

- Mines / Prospect
- Road
- Tracks
- Creek

NOTE:
See drawings 15272-5 for line lay-out of GRIDS C1 & C2

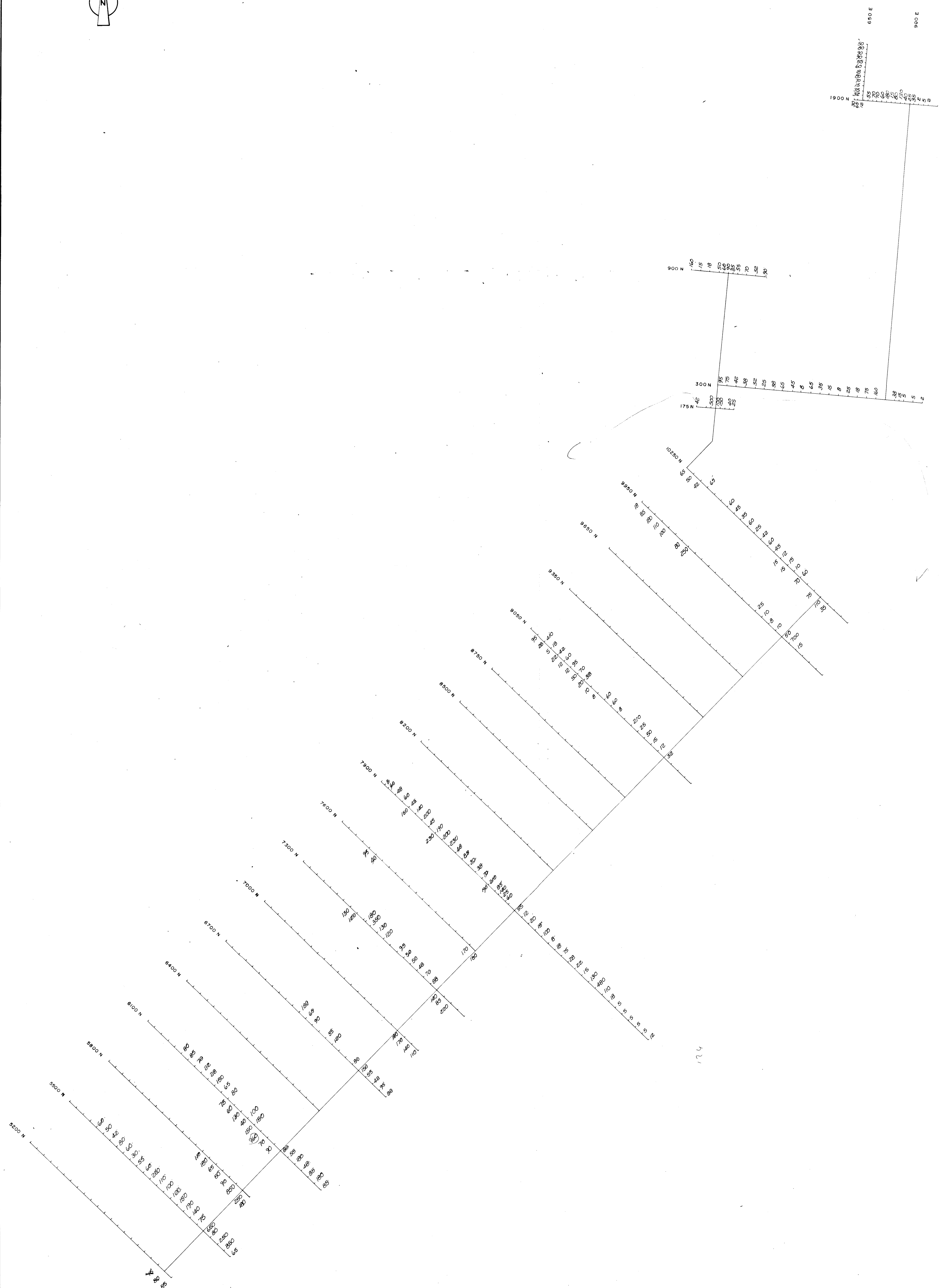
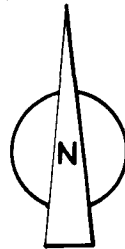
Kilometres 2 1 0 2 4 6 8 10 12

2296(I)-6

Grid GN
Convergence
1.0°

Grid/Magnetic
Angle 71°

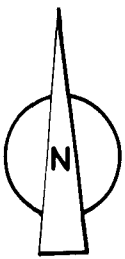
REVISION	SCALE: 1:100,000	CARPENTARIA EXPLORATION COMPANY PTY LTD
	GEO. N.D.	E.L. 67 MOUNT MESSENGER
	DRAWN: W.H.	GRID LOCATION PLAN
	CHECKED:	
	DATE: May '74	
	MICROFILMED:	
	ROLL N°	
	MINING FIELD or DISTRICT: Mt. Messenger	DRG N°: 15271



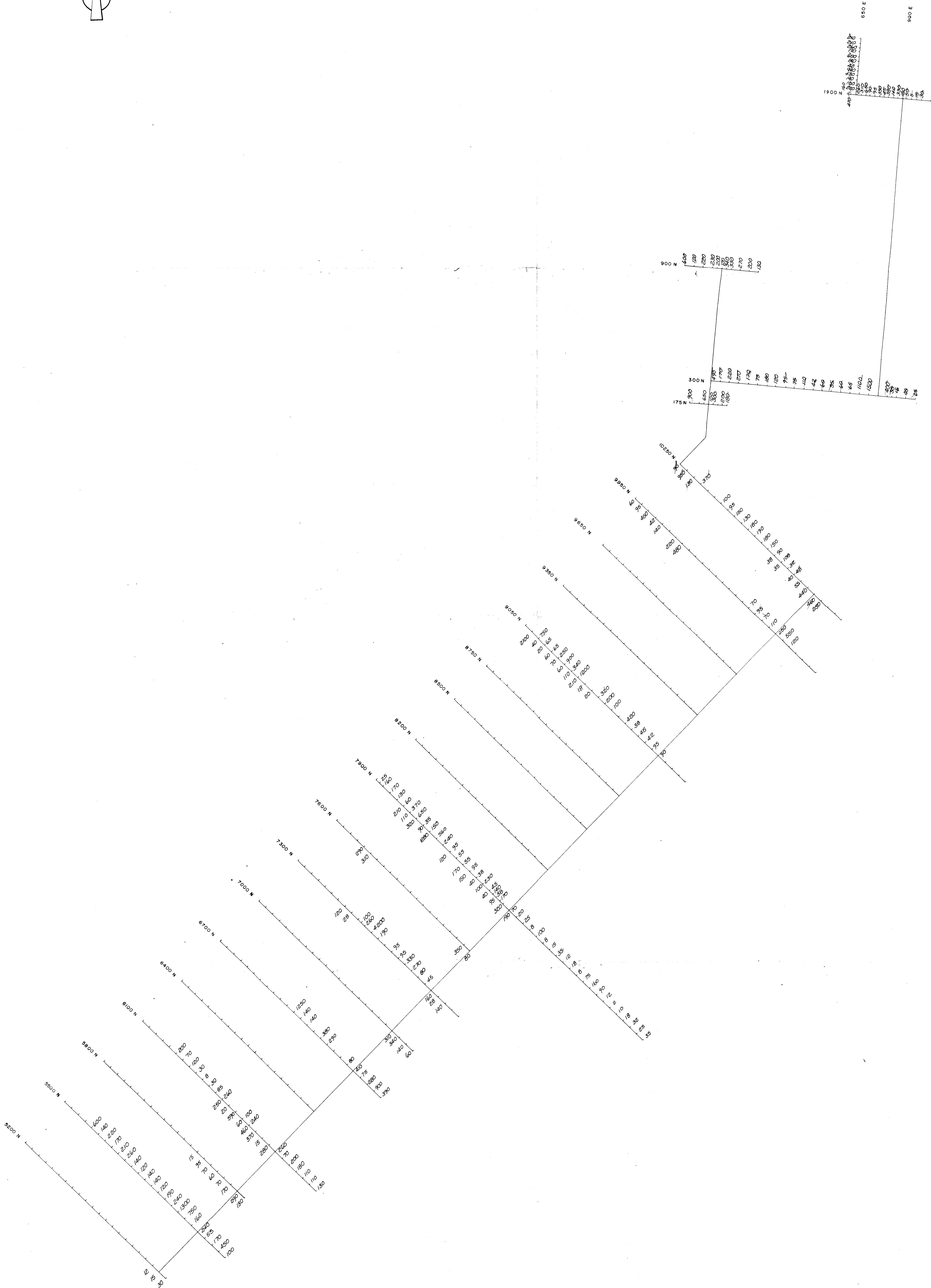
NOTE:
Values in p.p.m.
(For CI Grid only) Sample values below line from gemco auger program.
Sample values above line from Ingersoll Rand drag bit program.
For location of GRIDS see drawing 15271

2296(I)-7

REVISION		SCALE: 1:10,000	CARPENTARIA EXPLORATION COMPANY PTY LTD	
		GEO: N.D.	E.L. 67 MOUNT MESSENGER	
		DRAWN: W.H.	CAMPOONA GRID CI & C2	
		CHECKED:	GEOCHEMISTRY - Cu Values	
		DATE: May '74	WEATHERED BEDROCK SAMPLING	
		MICROFILMED:		
		ROLL N°		
		MINING FIELD or DISTRICT	Mt. Messenger	DRG N°: 15272

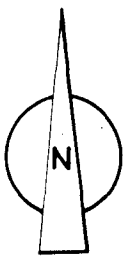


2296(I)-8

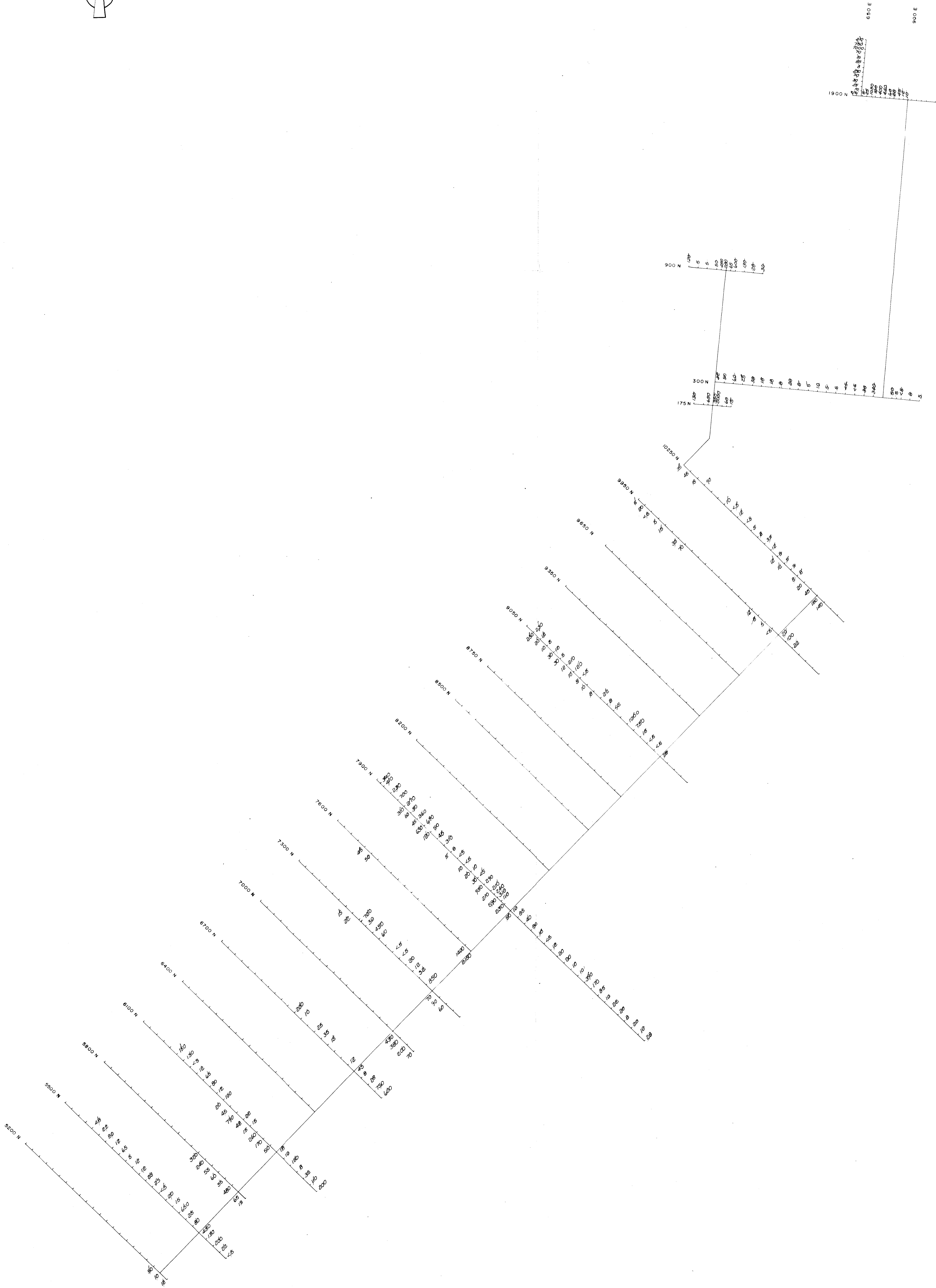


NOTE:
Values in p.p.m.
(For CI Grid only) Sample values below line from gemco auger program.
Sample values above line from Ingersoll Rand drag bit program.
For location of GRIDS see drawing I527I

REVISION	SCALE: 1:10,000	CARPENTARIA EXPLORATION COMPANY PTY LTD
	GEO N.D.	E.L. 67 MOUNT MESSENGER
	DRAWN: W.H.	CAMPOONA GRID CI & C2
	CHECKED:	GEOCHEMISTRY - Zn Values
	DATE: May '74	WEATHERED BEDROCK SAMPLING
	MICROFILMED:	
	ROLL N°	
	MINING FIELD or DISTRICT	Mt. Messenger
		DRG. N°: I5273

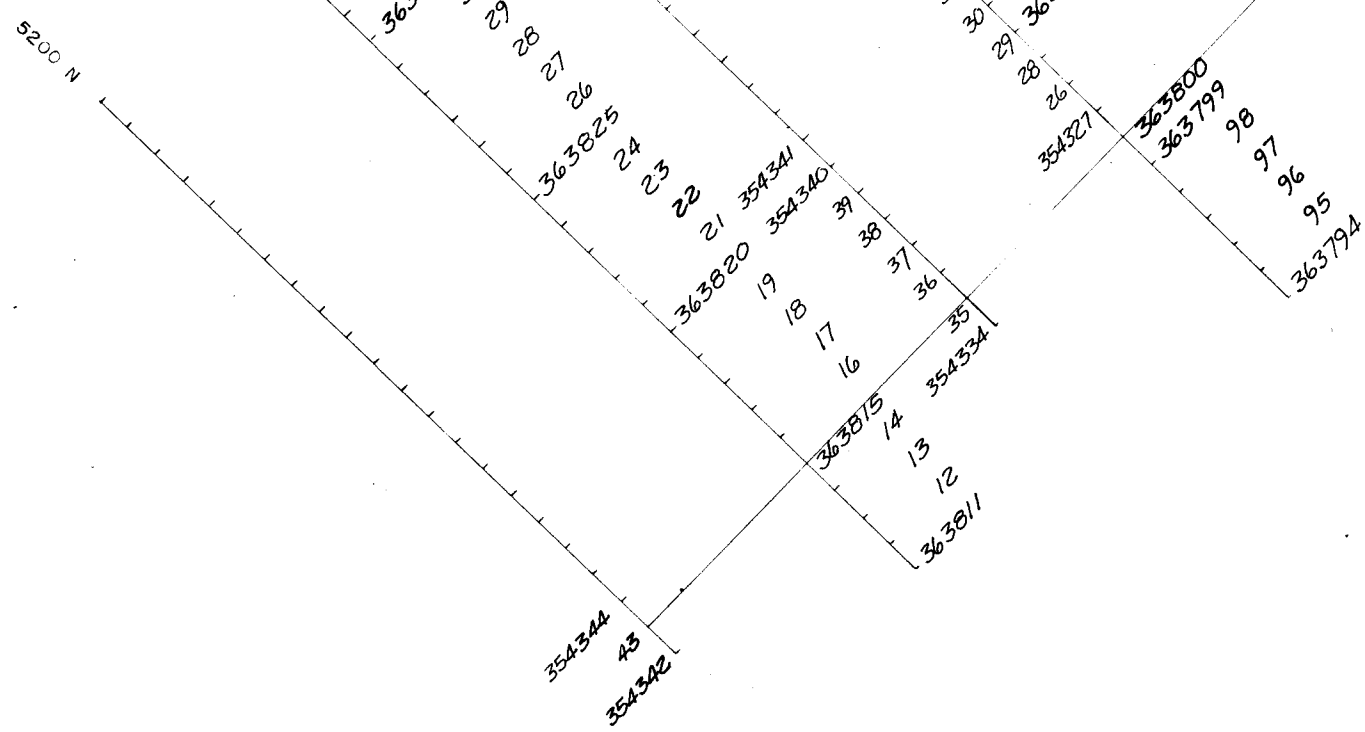
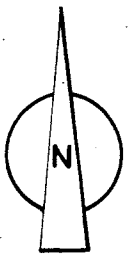


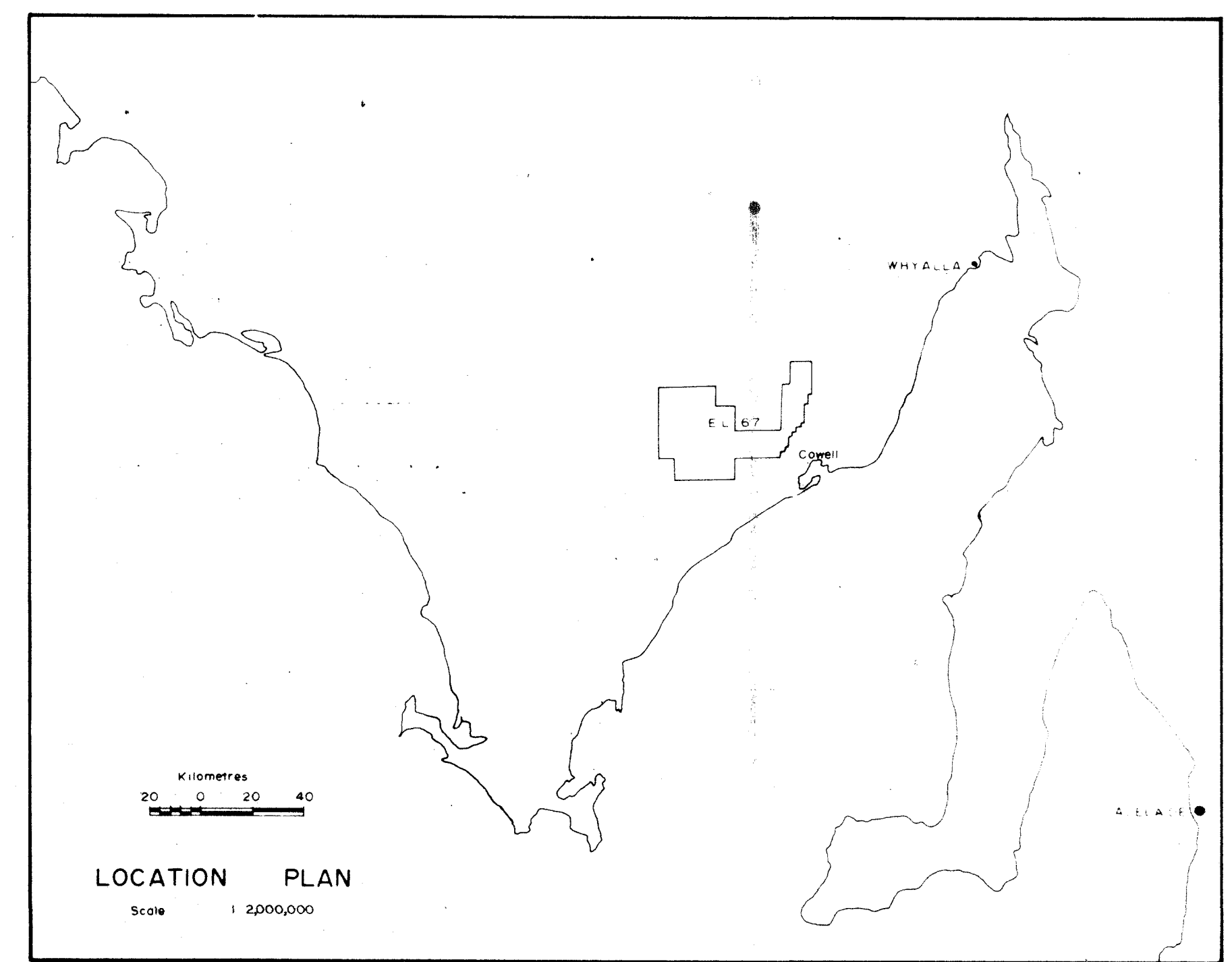
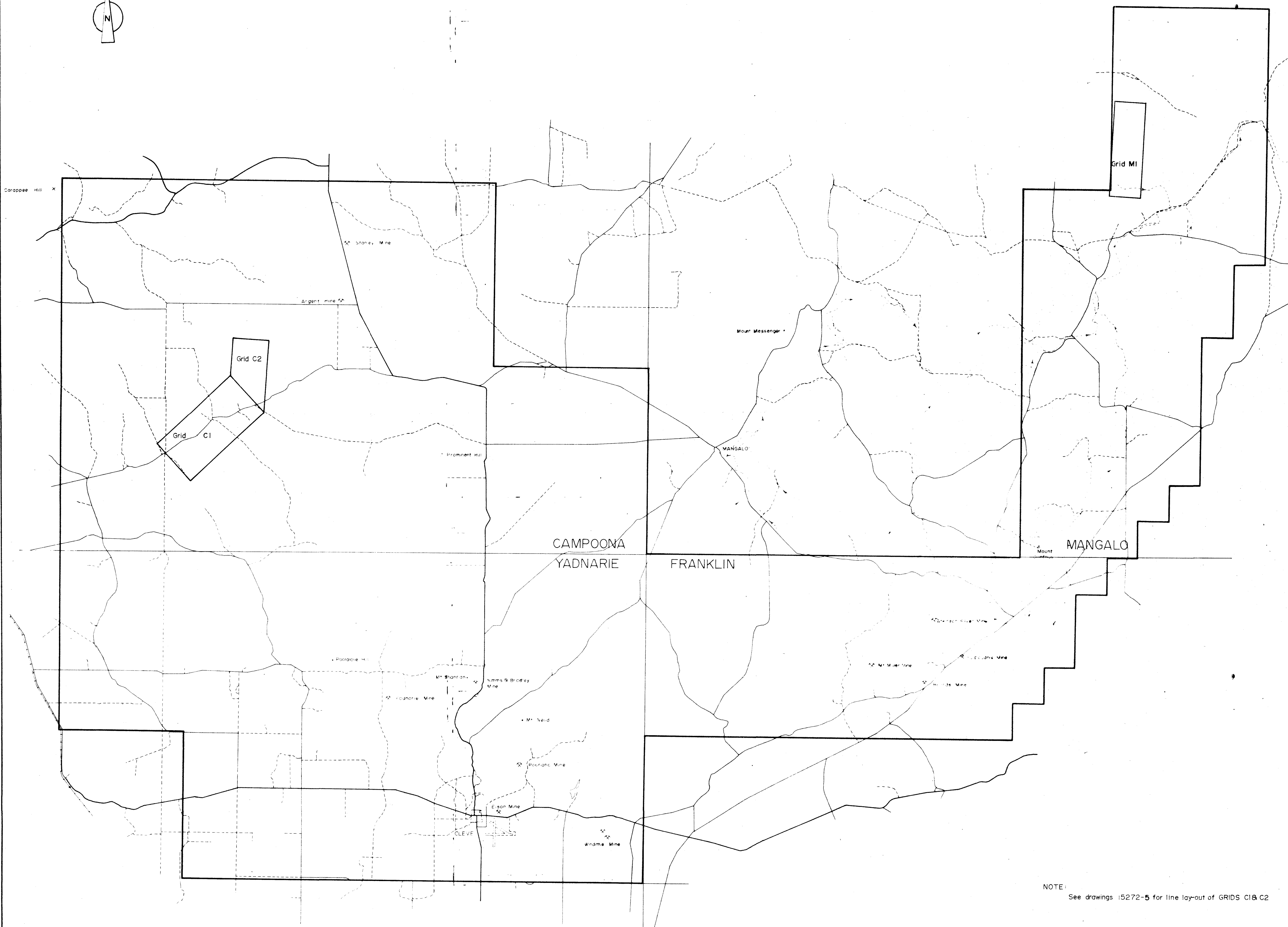
2296(I)-9



NOTE: Values in p.p.m.
(For CI Grid only) Sample values below line from gemco auger program.
Sample values above line from Ingersol Rand drag bit program.
For location of GRIDS see drawing 15271

REVISION	SCALE: 1:10,000	CARPENTARIA EXPLORATION COMPANY PTY LTD
	GEO N.D.	E.L. 67 MOUNT MESSENGER
	DRAWN: W.H.	CAMPOONA GRID CI & C2
	CHECKED:	GEOCHEMISTRY — Pb Values
	DATE: May '74	WEATHERED BEDROCK SAMPLING
	MICROFILMED:	
	ROLL N°	
	MINING FIELD or DISTRICT: M1 Messenger	DRG N°: 15274





LEGEND

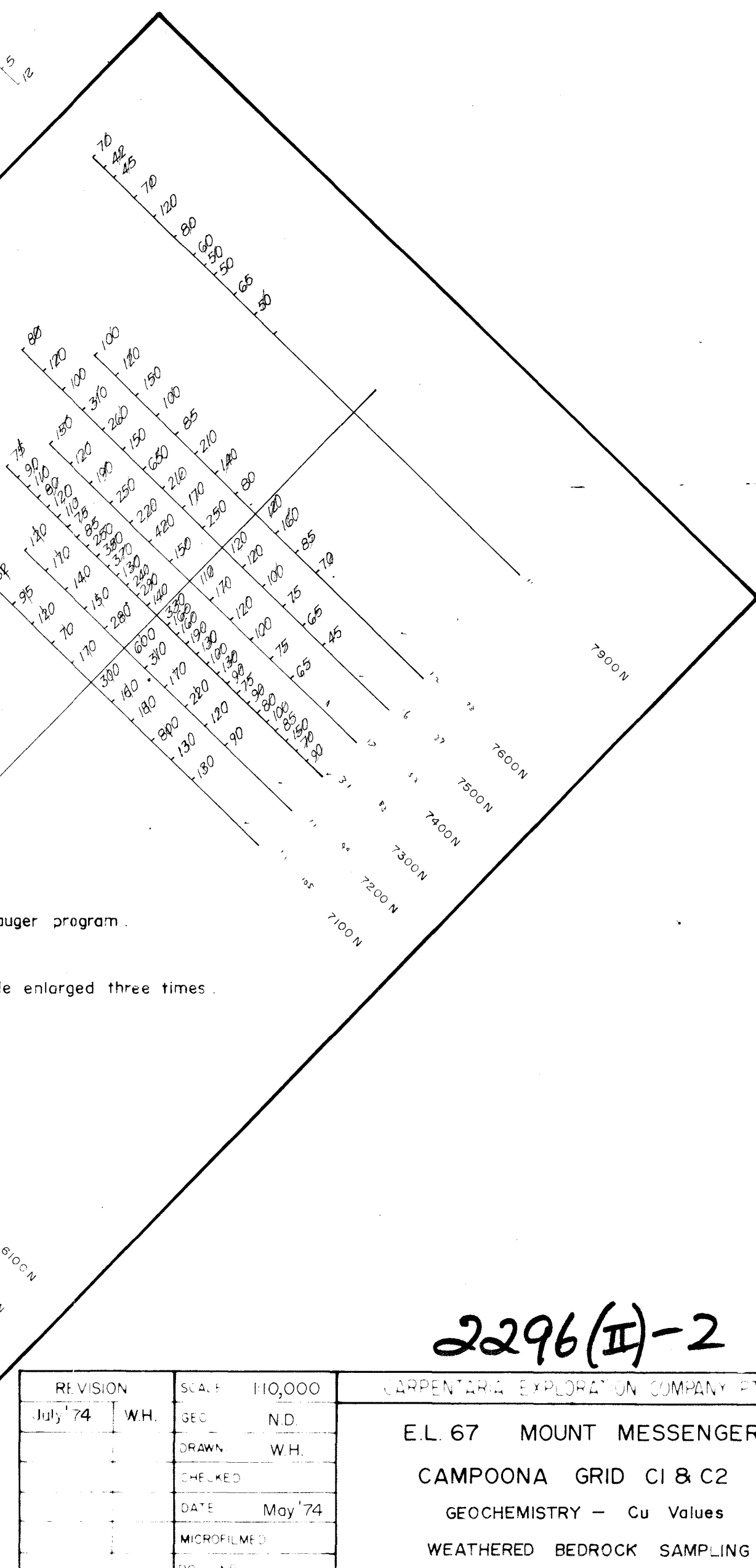
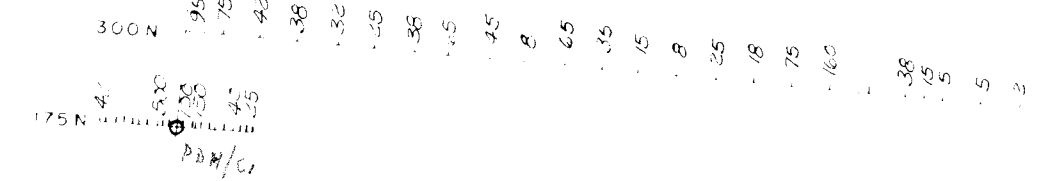
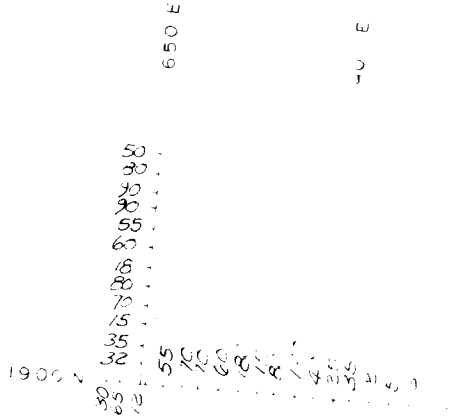
- Mines / Prospect
- Road
- Tracks
- Creek

NOTE: See drawings 15272-5 for line lay-out of GRIDS C1 & C2

Grid U.N.
Convergence 10°
Grid/Magnetic
Angle 71°

REVISION		SCALE 1:100,000		DATE		PROJECT	
June '74	WH	ND	WH	May '74		EL 67	MOUNT MESSENGER
				GRID LOCATION PLAN			
MINING FIELD		Mt. Messenger		Page 15			

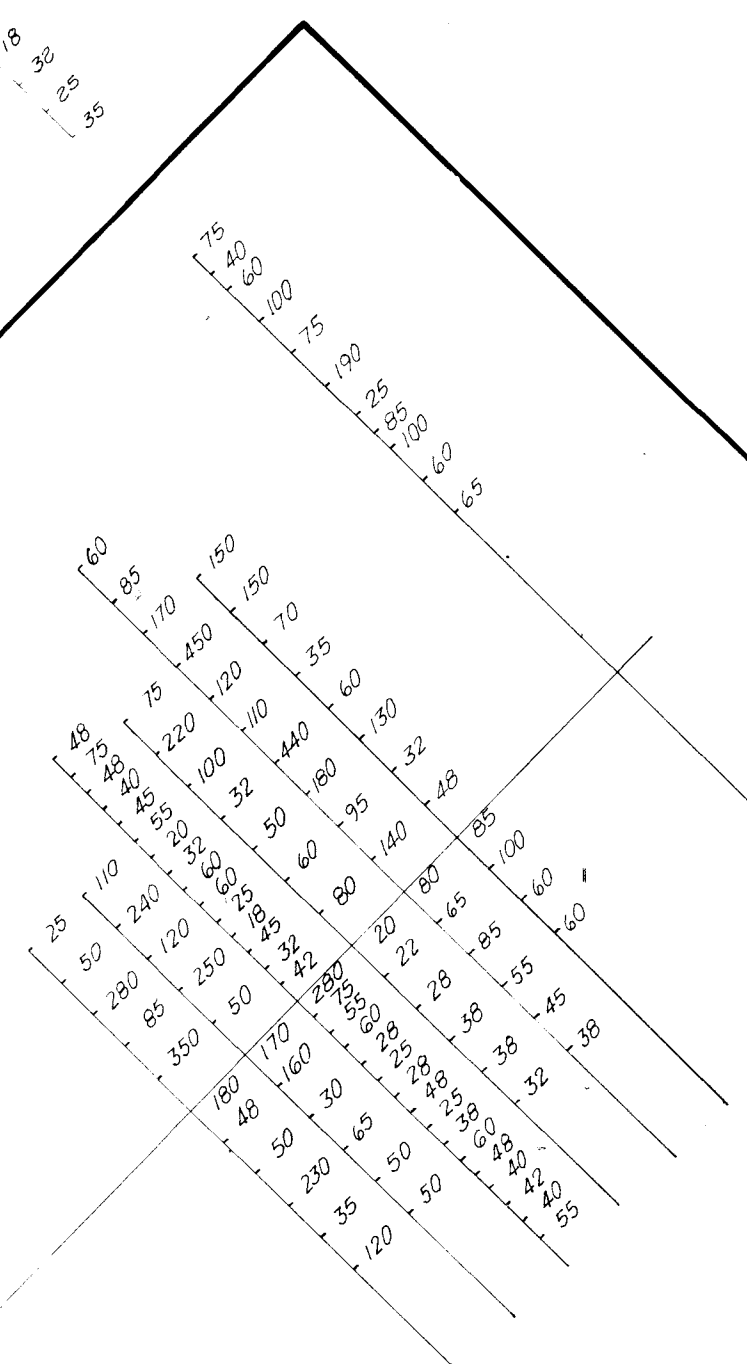
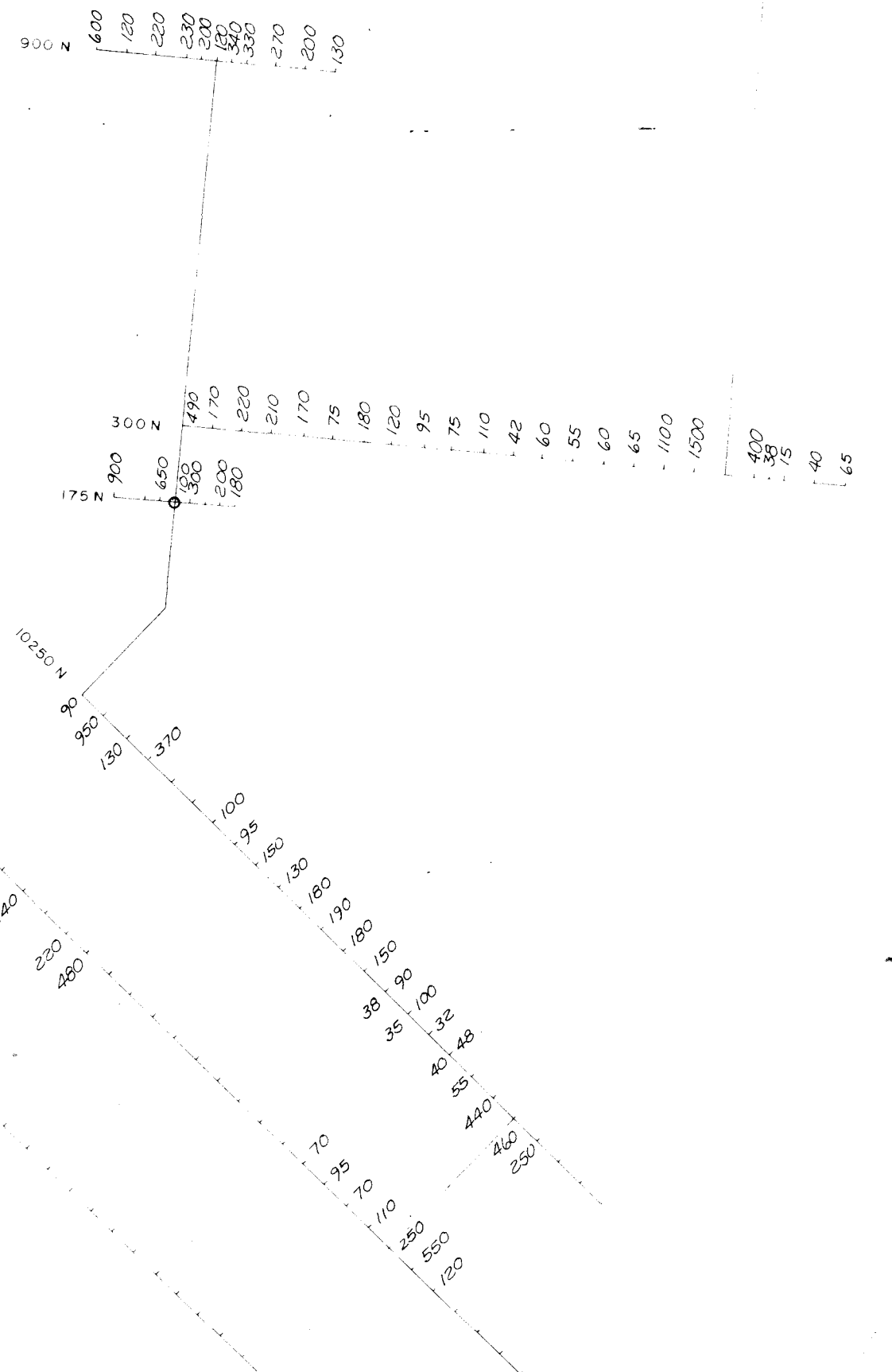
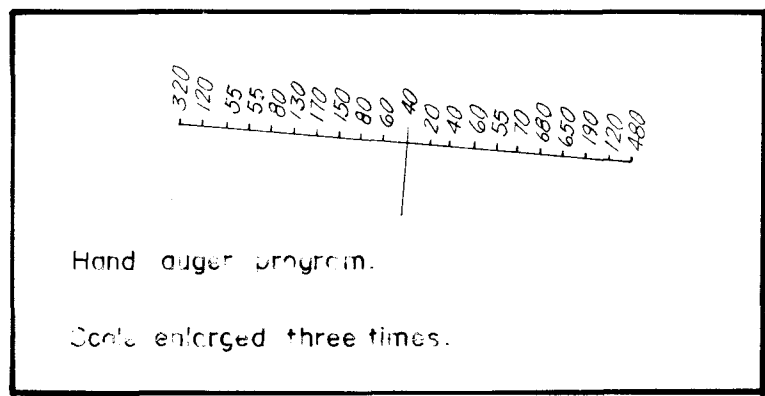
2296(I)-1



For location of GRIDS see drawing 15271

CARPENTARIA EXPLORATION COMPANY PTY LTD
 E.L. 67 MOUNT MESSENGER
 CAMPOONA GRID CI 8 C2
 GEOCHEMISTRY - Cu Values
 WEATHERED BEDROCK SAMPLING

REVISION	S&A	110,000	CARPENTERS' EXPLORATION COMPANY LTD.	
July '74	WH	SEC	ND	E.L. 67 MOUNT MESSENGER
		DRAWN	WH	CAMPOONA GRID CI & C2
		CHECKED		GEOCHEMISTRY - Cu Values
		DATE	May '74	WEATHERED BEDROCK SAMPLING
		MICROFILMED		
		WKS. NO.		
MINING FIELD NO. 15272			Mr Messenger	15272



Hand auger program

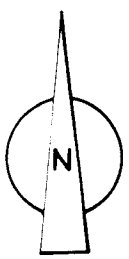
Vertical scale enlarged three times.

NOTE:
Values in paren.
Sample values below line from gemco over program.
Sample values above line from ligersol hand drag bit program.

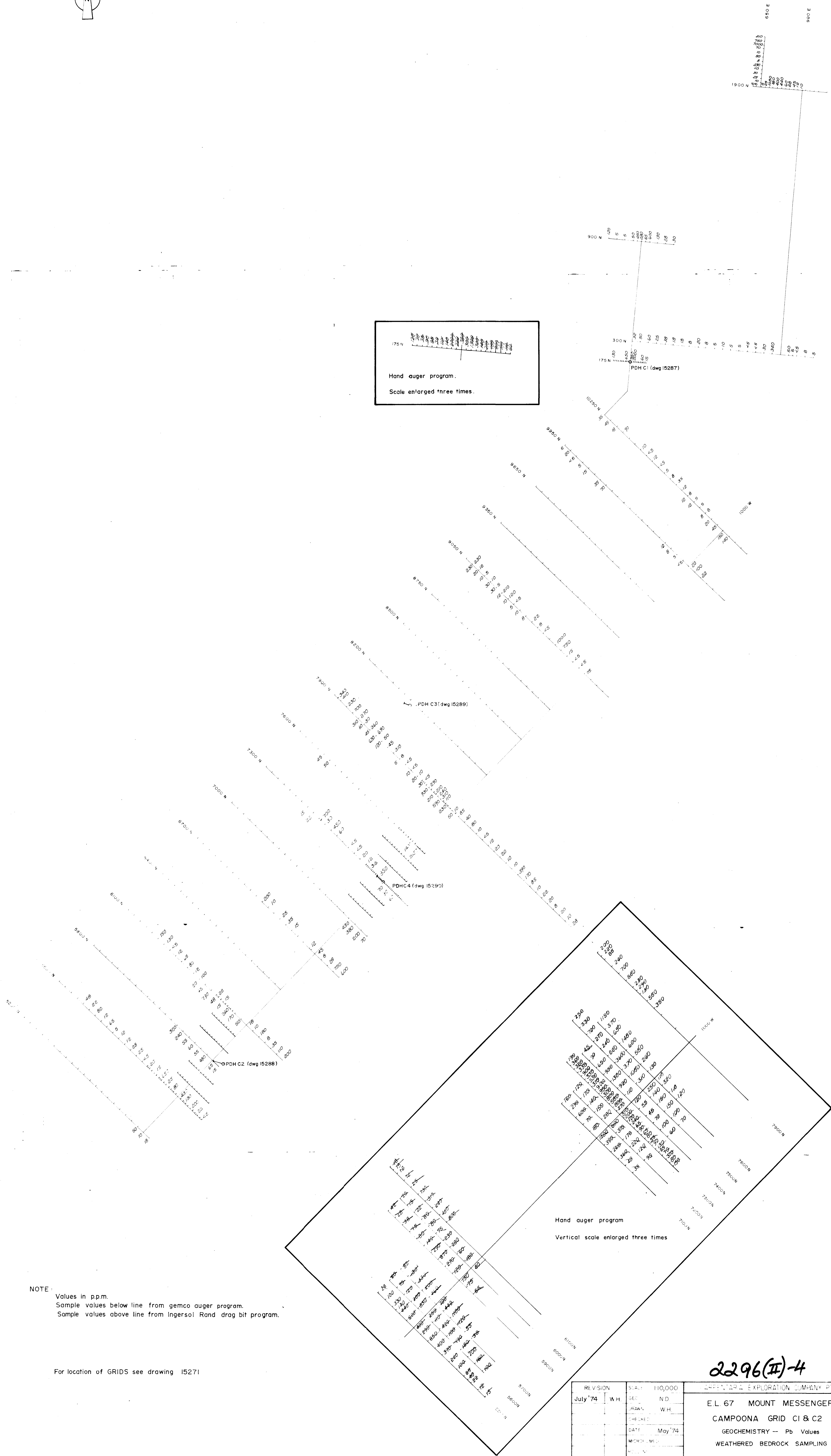
For location of GRILLS see drawing 15271

2296(II)-3

REVISION		SCALE	HQ.000	APPROVED FOR RELEASE: MAY 1999	
July 74	W.H.	GEN.	N.D.	E.L. 67 MOUNT MESSENGER CAMPOONA GRID CI & C2 GEOCHEMISTRY - Zn Values WEATHERED BEDROCK SAMPLING	
		RAW.	W.H.		
		FILE NO.			
		DATE	May 74		
		MICROFILMED			
		HOLES			
MINING RECORD DISTRICT			M1 Messenger	PAGE 15273	



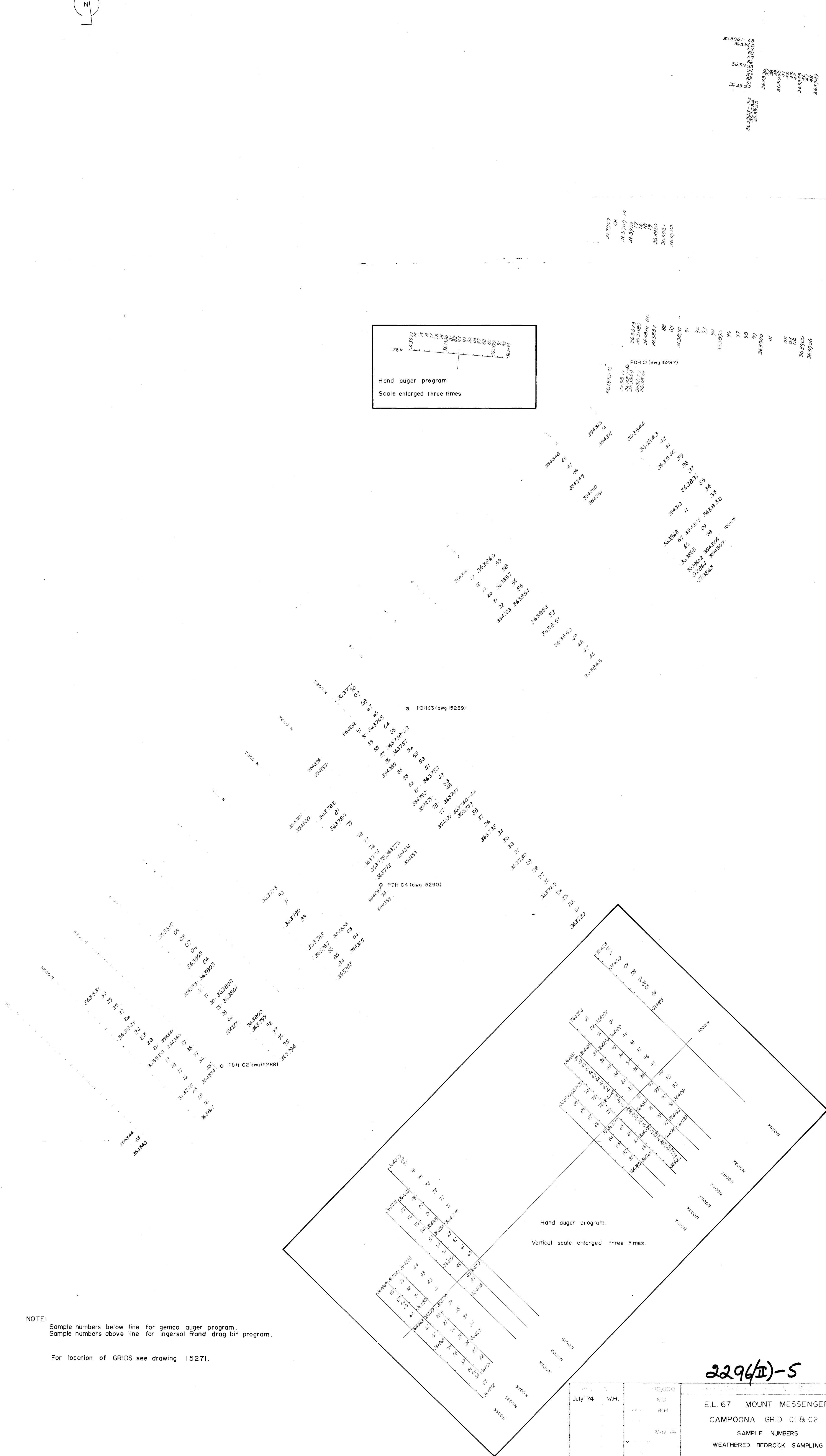
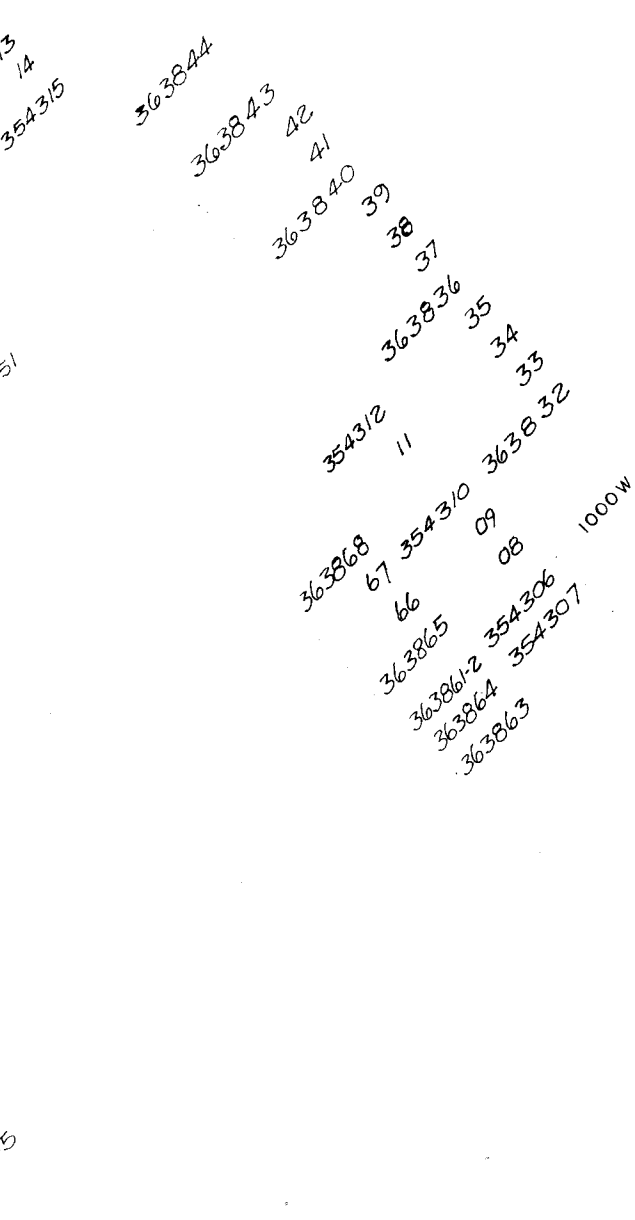
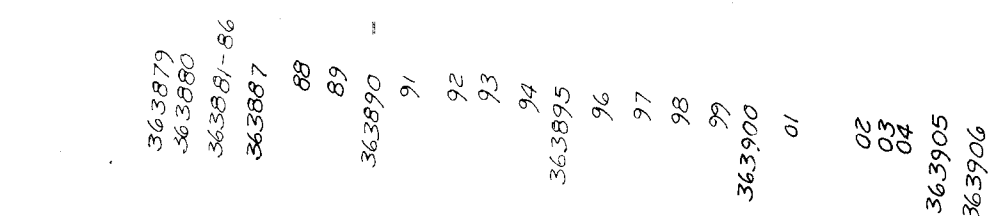
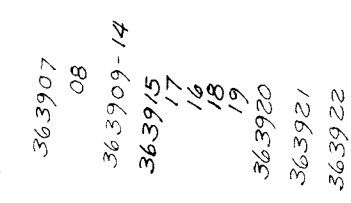
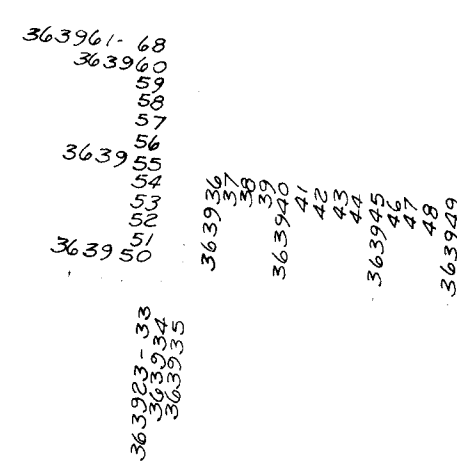
Hand auger program.
Scale enlarged three times.



NOTE:
Values in p.p.m.
Sample values below line from gemco auger program.
Sample values above line from Ingersol Rand drag bit program.

For location of GRIDS see drawing 15271

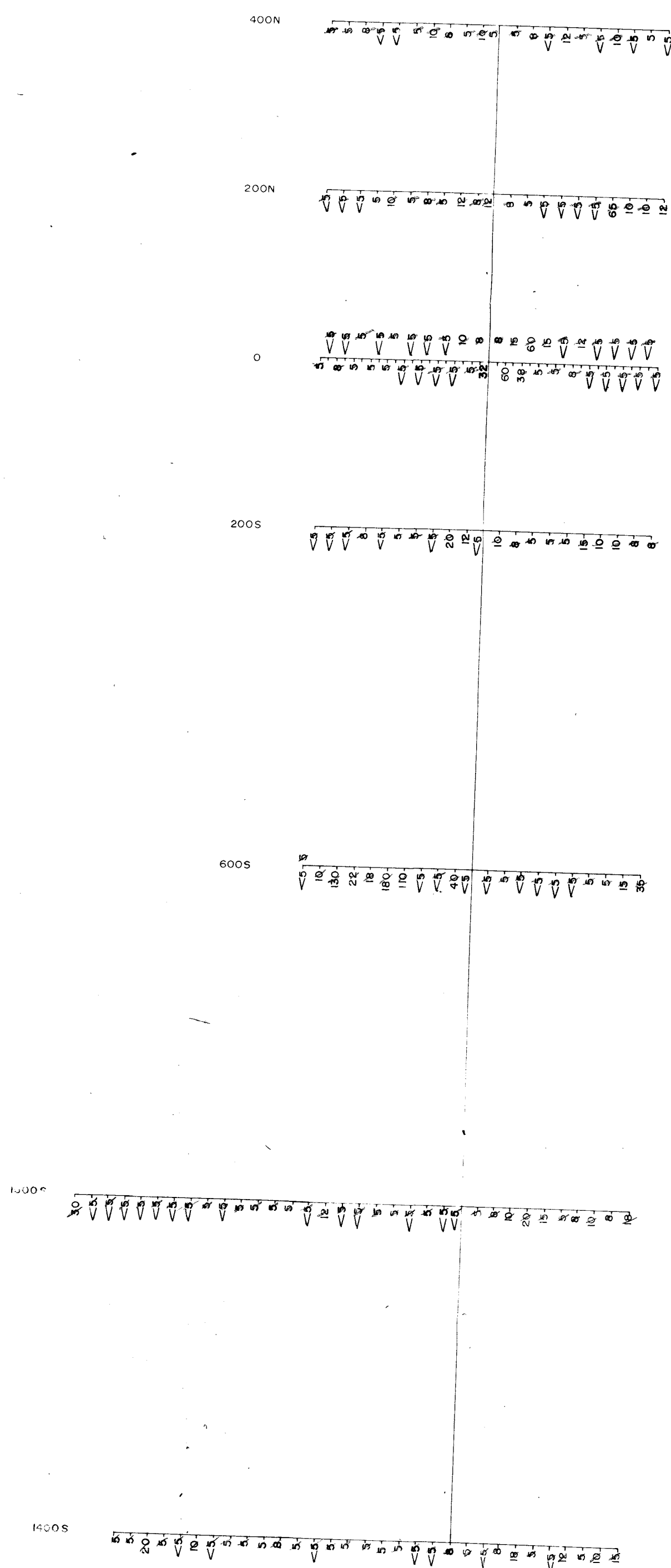
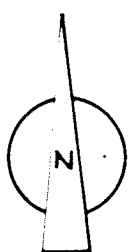
REVISION		SCALE	10,000	2296(II)-4	
July '74	WH	GER	ND	GREENHART EXPLORATION COMPANY PTY LTD	
		DRAWN	WH	E.L. 67 MOUNT MESSENGER	
		CHECKED		CAMPOONA GRID CI & C2	
		DATE	May '74	GEOCHEMISTRY - Pb Values	
		MECH	MD	WEATHERED BEDROCK SAMPLING	
		SIGNED			
		W. N. FIELD or G. H. H. H.	M. Messenger	15274	



For location of GRIDS see drawing 15271.

2296(II)-5

July '74	WH	10,000 ND WH May '74	E L 67 MOUNT MESSENGER CAMPOONA GRID C1 & C2 SAMPLE NUMBERS WEATHERED BEDROCK SAMPLING	15275
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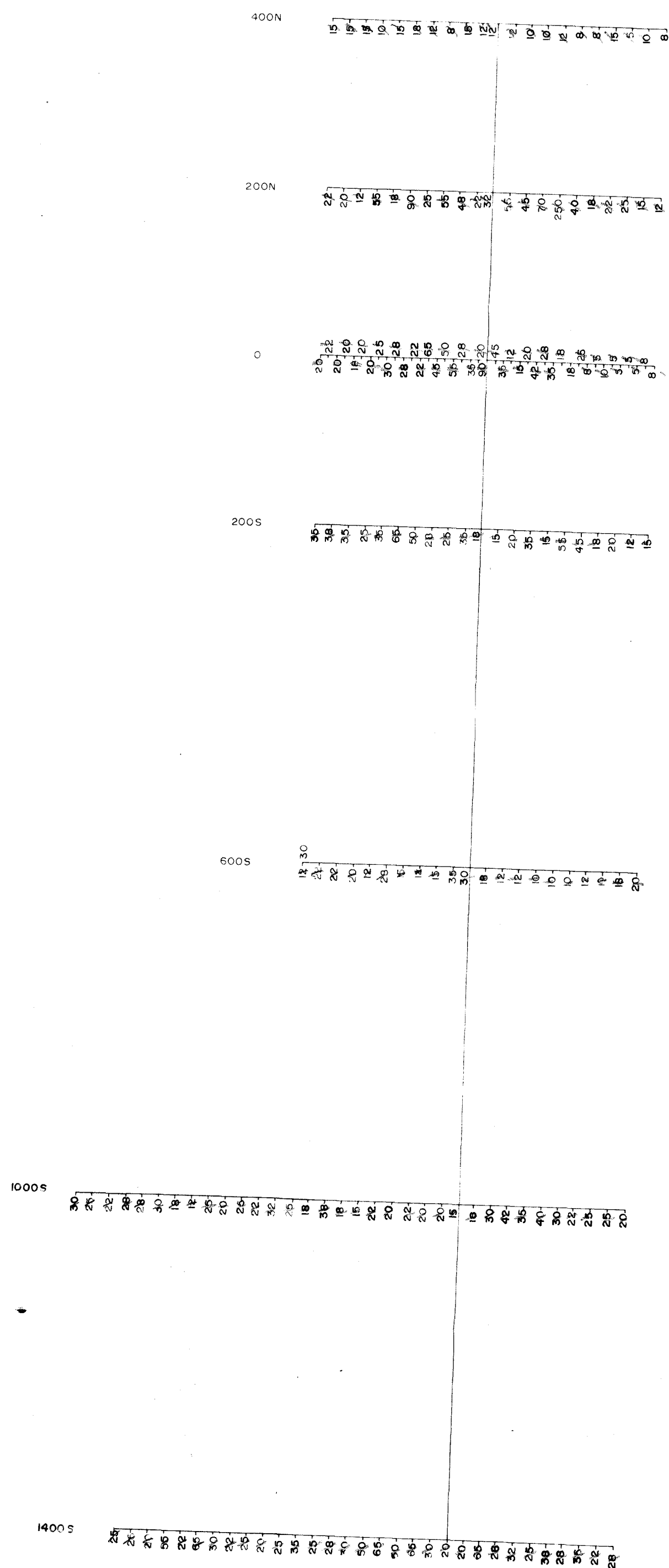
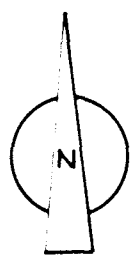


74
S = 9.6
S.D. = 14.5
R = 180
R = 185
R = 195

For location of GRID see drawing 15271
Sample values in p.p.m.

2296(II)-6

REVISION		SCALE: 1:5,000	CARPENTARIA EXPLORATION COMPANY PTY LTD	
		GEO. N.D.	E.L.67 MOUNT MESSENGER MANGALO GRID MI GEOCHEMISTRY Pb Values. WEATHERED BEDROCK SAMPLING.	
		DRAWN: W.H.		
		CHECKED		
		DATE: June '74		
		MICROFILMED		
		ROLL N°		
		MINING FIELD or DISTRICT	Mt Messenger	DPG N° 15292

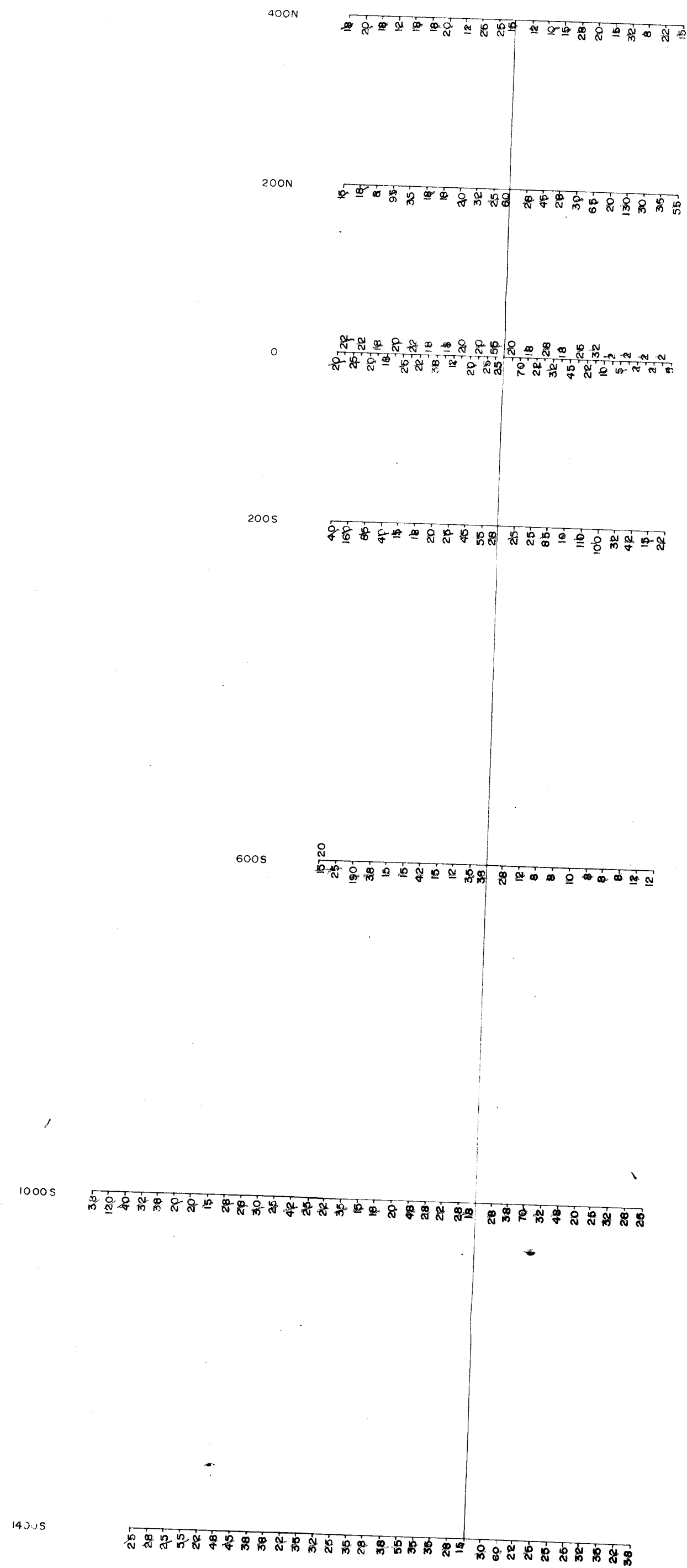
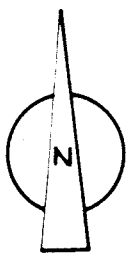


For location of GRID see drawing 15271

Sample values in p.p.m.

2296(II)-7

REVISION		SCALE: 1:5,000	CARPENTARIA EXPLORATION COMPANY PTY LTD
		GEO: N.D.	E.L.67 MOUNT MESSENGER
		DRAWN: W.H.	MANGALO GRID MI
		CHECKED:	GEOCHEMISTRY: Cu Values
		DATE: June '74	WEATHERED BEDROCK SAMPLING.
		MICROFILMED:	
		ROLL N°:	
		MINING FIELD or DISTRICT	Mt Messenger
			DRG N° 15293.

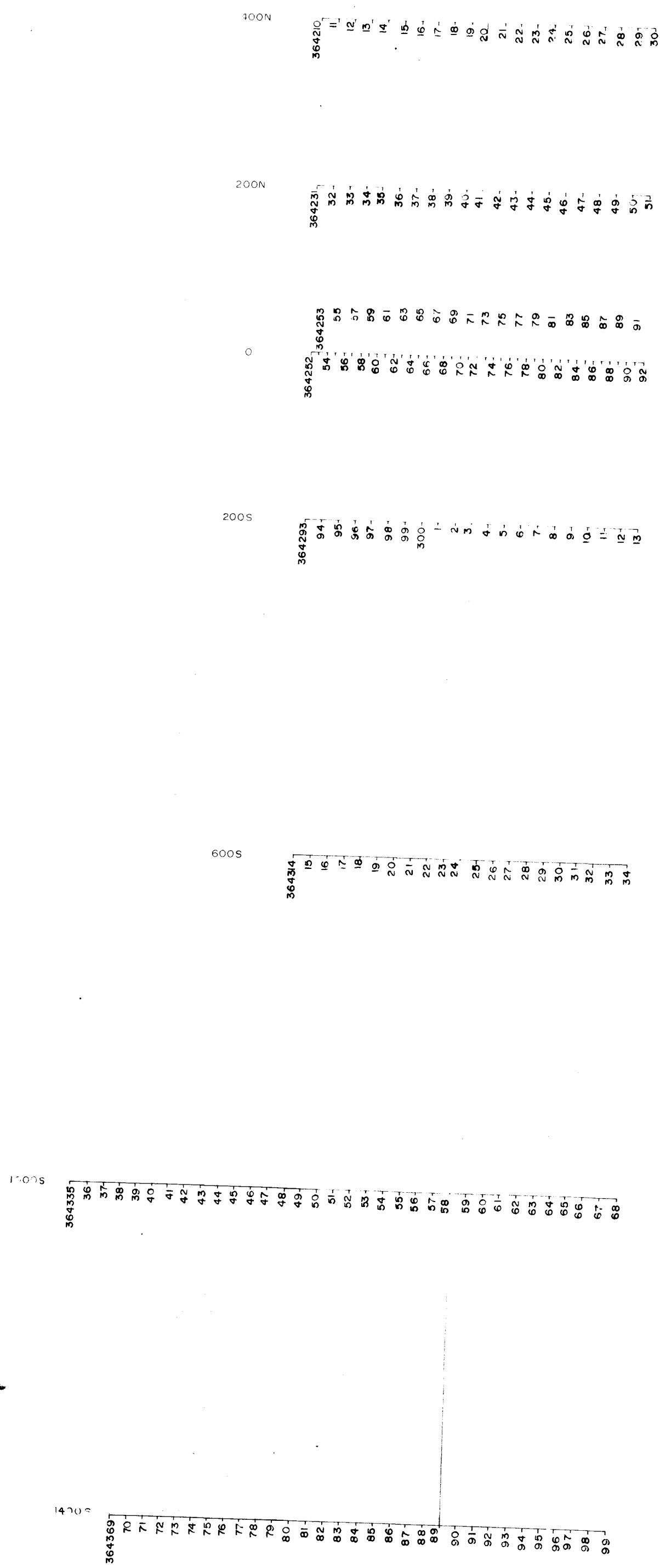
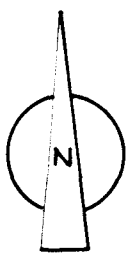


For location of GRID see drawing 15271

Sample values in p.p.m.

2296(II)-8

REVISION	SCALE 1:5,000	CARPENTARIA EXPLORATION COMPANY PTY LTD
	GEO N.D.	E.L.67 MOUNT MESSENGER
	DRAWN W.H.	MANGALO GRID MI
	CHECKED	GEOCHEMISTRY Zn Values.
	DATE June '74	WEATHERED BEDROCK SAMPLING.
	MICROFILMED	
	ROLL N°	
	MINING FIELD or DISTRICT Mt Messenger	DRG N° 15274

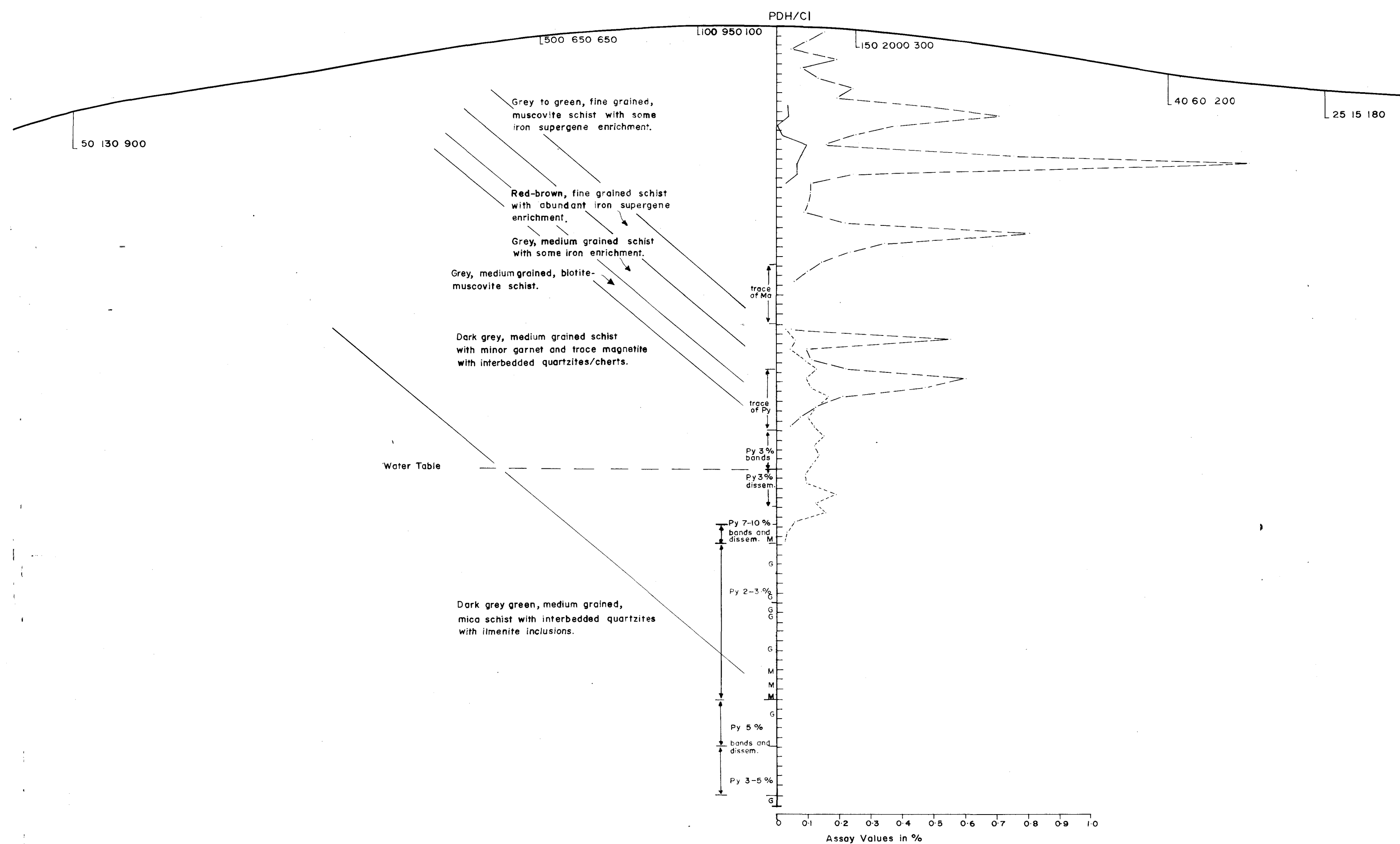
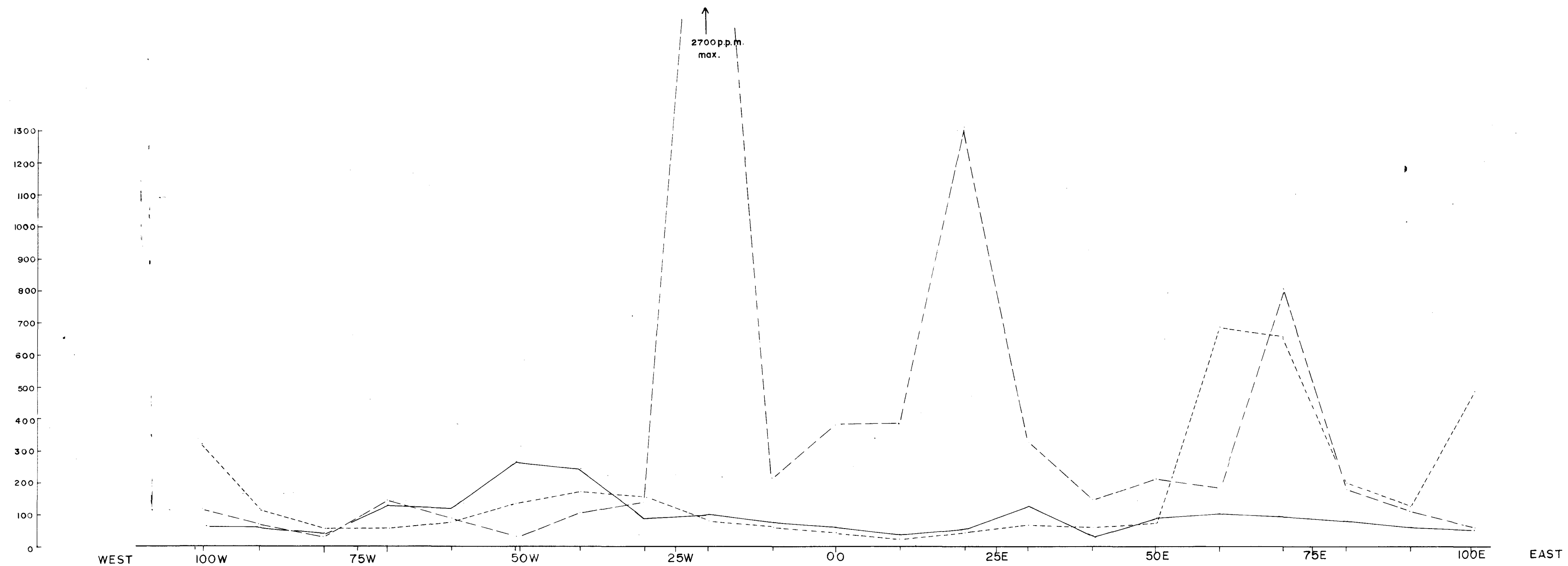


For location of GRID see drawing 15271

2296(II)-9

REVISION	SCALE 1:5,000	DATE June 74
	GEO. N.D.	
	DRAWN W.H.	
	CHECKED	
	DATE June 74	
	MICROFILMED	
	ROLL NO.	
MINING FIELD or DISTRICT Mt. Messenger		15295

Assay
Value in
p.p.m.



AUGER HOLES
Assay Values in p.p.m.

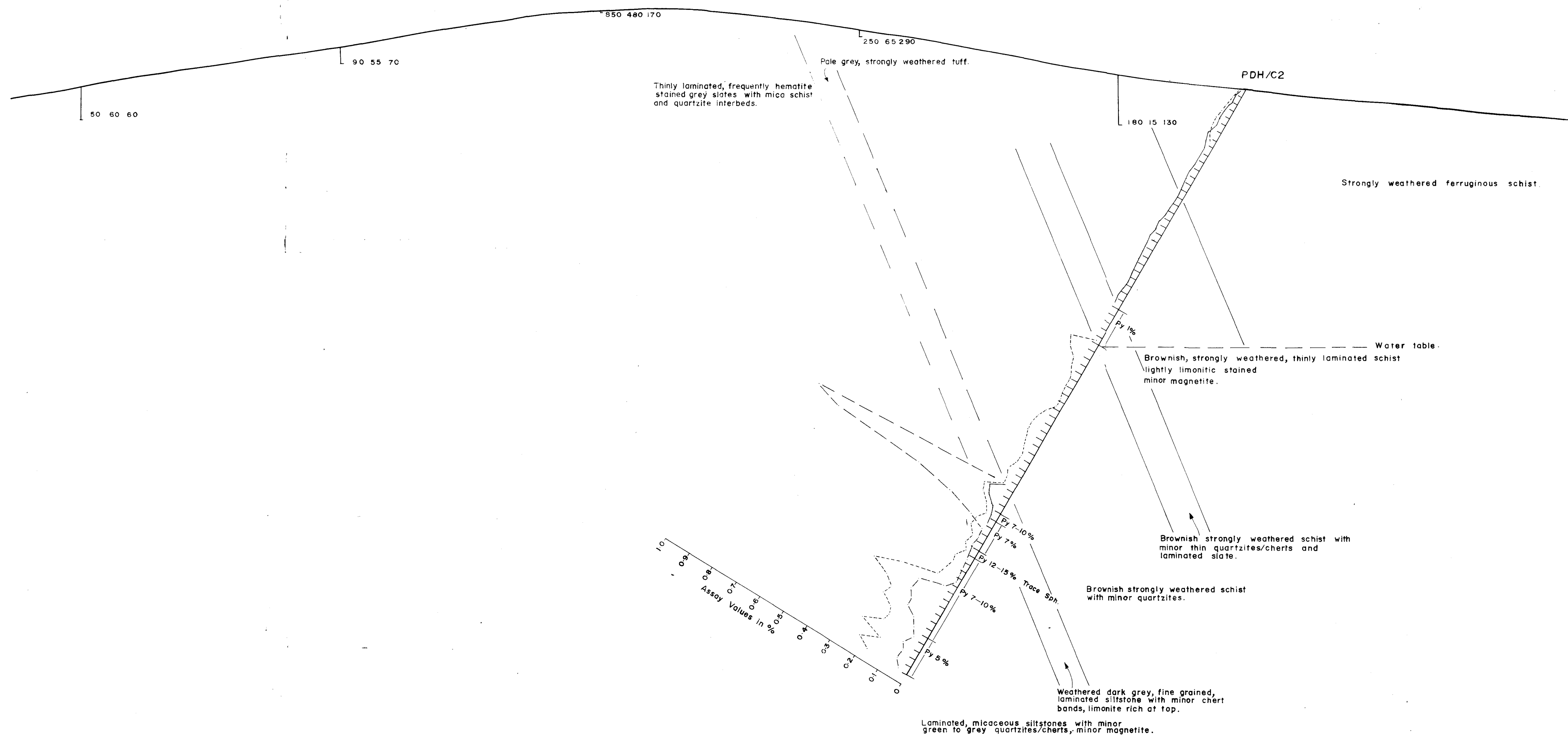
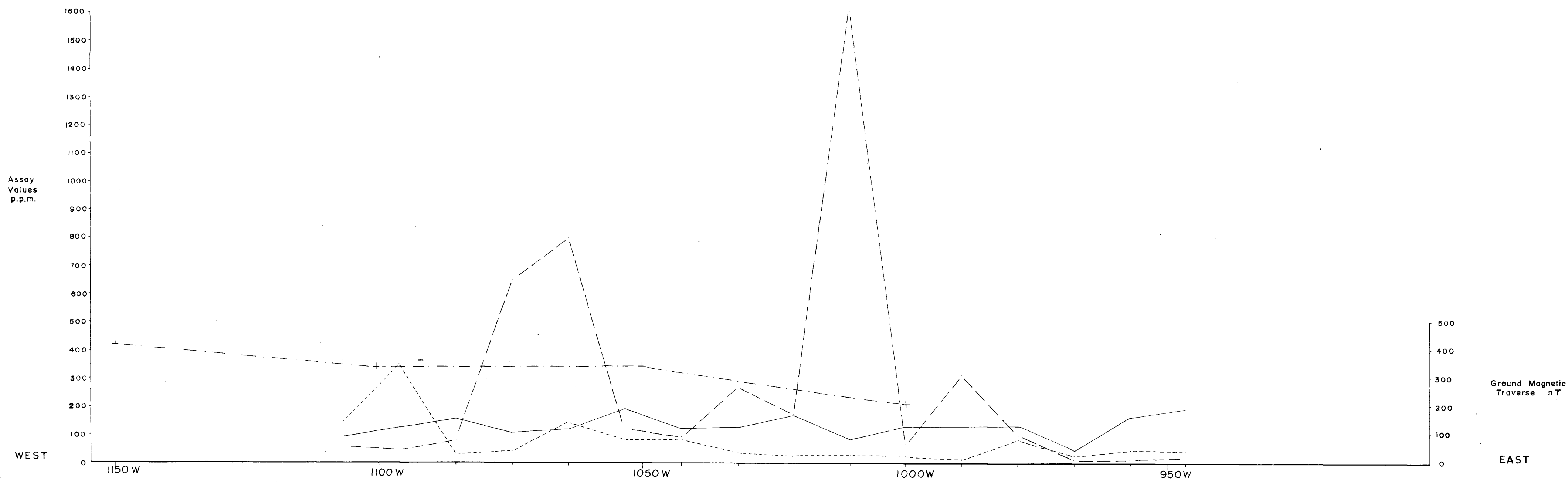
Cu Pyrite
Mo Malachite
Pb W Fine subhedral magnetite.
Zn G Fine euhedral garnet.

Values below 0.01 are not represented

2296(II)-10

REVISION	SCALE: 1:500	CARPENTARIA EXPLORATION COMPANY PTY LTD
	GEO. N.D.	
	DRAWN: A.M.	
	CHECKED:	
	DATE: AUGUST 74	
	MICROFILMED:	
	ROLL N°:	
	MINING FIELD or DISTRICT: Mt. MESSENGER.	DRG. N°: 15287

EL 67 Mt. MESSENGER.
CAMPOONA GRID C2
CROSS SECTION OF PDH/CI



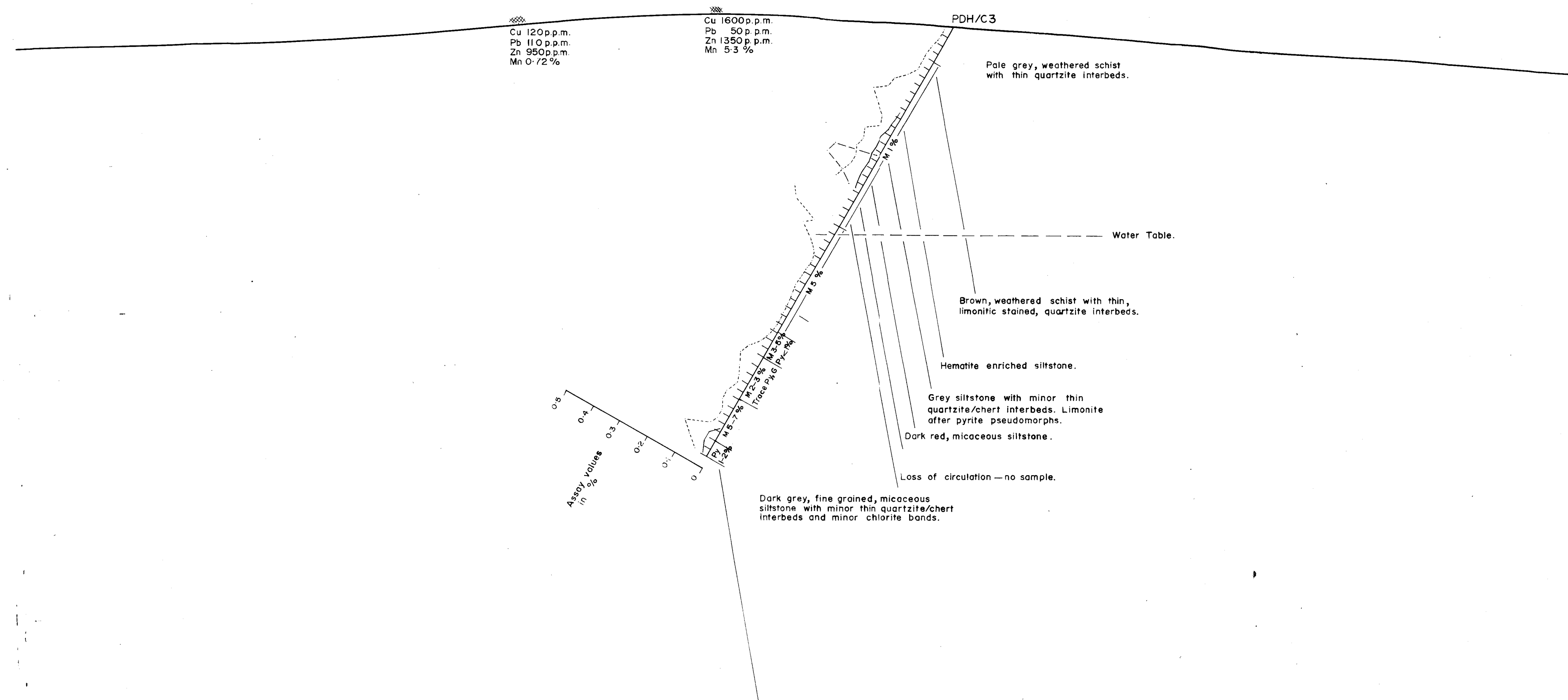
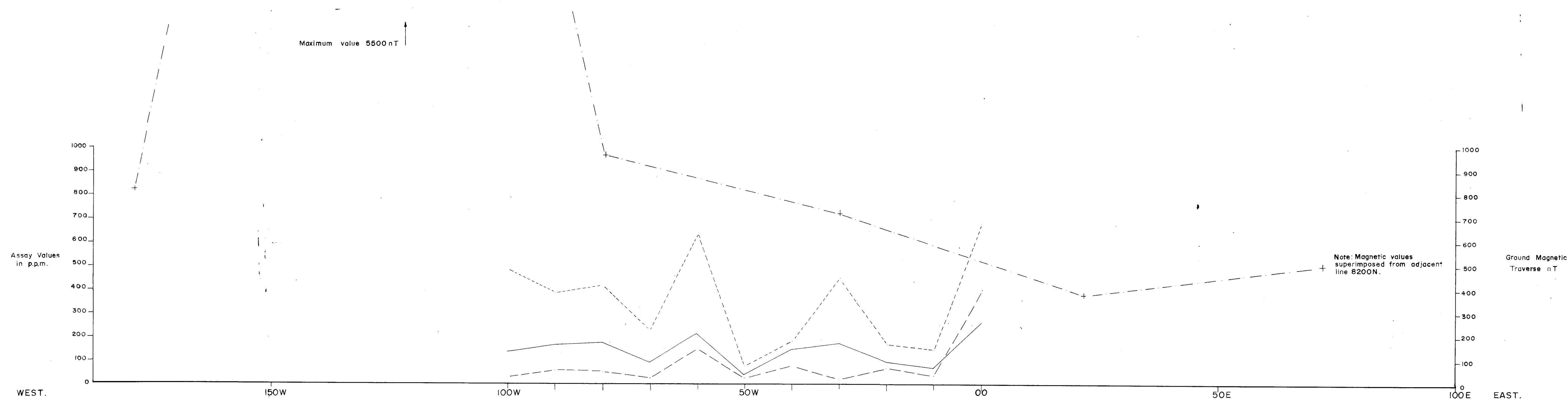
Ground Magnetic Traverse
Cu
Pb
Zn
Py Pyrite
Sph Sphalerite

AUGER HOLES
Assay Values p.p.m.
Cu Pb Zn

Values below 0.01 are not represented.

2296(II)-11

REVISION	SCALE: 1: 500	CARPENTARIA EXPLORATION COMPANY PTY LTD
	GEO. N.D.	EL 67 Mt. MESSENGER.
	DRAWN: A.M.	CAMPOONA GRID C1
	CHECKED:	CROSS-SECTION OF PDH/C2
	DATE: August '74	
	MICROFILMED:	
	ROLL N°	
	MINING FIELD or DISTRICT: Mt. MESSENGER.	DRG. N° 15288



Values below 0.01 are not represented.

2296(#)-12

REVISION		SCALE: 1:500	CARPENTARIA EXPLORATION COMPANY PTY LTD
		GEO. N. D.	EL 67 Mt. MESSENGER. CAMPOONA GRID CI CROSS SECTION OF PDH/C3
		DRAWN: A.M.	
		CHECKED:	
		DATE: August '74	
		MICROFILMED:	
		ROLL N°:	MINING FIELD or DISTRICT: Mt. MESSENGER.
			DRG N°: 15289

