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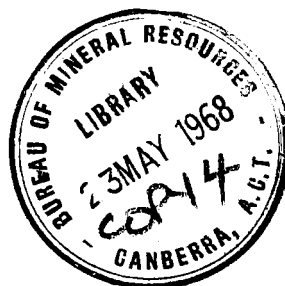
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COMMONWEALTH OF AUSTRALIA

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GEOCHEMICAL AND RADIOMETRIC INVESTIGATIONS RUM
JUNGLE EAST, NORTHERN TERRITORY, 1967
(AREA 44 EXTENDED AND COOMALIE GAP WEST - NORTHERN SECTION)

By

D.G. Semple

The information contained in this report has been obtained by the Department of National Development, as part of the policy of the Commonwealth Government, to assist in the exploration and development of mineral resources. It may not be published in any form or used in a company prospectus without the permission in writing of the Director, Bureau of Mineral Resources, Geology and Geophysics.

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SUMMARY

A major lead, zinc, copper, nickel, and cobalt anomaly has been outlined in Area 44 Extended overlying the Coomalie Dolomite/Golden Dyke Formation boundary. Two other lead anomalies were also outlined.

A broad area of above background radiometric values overlies Area 44 proper and extends to the south. The anomaly lies in shales of the Golden Dyke Formation stratigraphically just above the Coomalie Dolomite/Golden Dyke Formation boundary. Another radiometric anomaly overlies the Crater Formation.

Recommendations include diamond drilling to test the geochemical anomalies and rotary percussion drilling of the radiometric anomalies.

INTRODUCTION

Location

The Rum Jungle East area extends from the Giant's Reef Fault line immediately south of Manton Dam to south of the Batchelor road. Within this area lie four subsidiary areas named Woodcutters, Area 44, Huandot North and Coomalie Gap West. This report describes the results of detailed geological, geochemical and radiometric surveys of portion of Huandot North and an area extending to the north, south, east and west of Area 44, together now named Area 44 Extended. Also, a detailed survey was carried out on that part of the Coomalie Gap West area lying to the north of the Batchelor road: this is now designated Coomalie Gap West - Northern Section (Plate 1).

History

The regional geology of the Rum Jungle East area has been described by Malone (1958) in his report on the Darwin/Adelaide River area, and the Rum Jungle Special Sheet (1" = 1 mile) shows the geology.

In 1962, Area 44 was surveyed and investigated by electromagnetic (Slingram) and radiometric methods (Douglas, 1963).

The Darwin Uranium Group of the Bureau of Mineral Resources carried out reconnaissance geological, geochemical, radiometric and geophysical surveys in the Rum Jungle East area in 1964 (Dodson and Shatwell, 1965; Duckworth, 1966) and an elongated zone of geochemical anomalies with associated radiometric anomalies was outlined between 72S and 480S (Rum Jungle East grid). In 1965, the Darwin Uranium Group followed up these discoveries with a detailed survey in the Woodcutters and Coomalie Gap West areas (Shatwell, 1966). Further detailed work was carried out at Woodcutters in 1966 (Semple, 1967).

This report completes the detailed coverage of the remaining anomalies in the Rum Jungle East area except for that part of the Coomalie Gap West area lying to the south of the Batchelor road. In conjunction with the geochemical survey a geophysical survey was carried out by Duckworth (1968).

The area covered by the present survey slightly overlaps in its south-eastern portion, the area covered by the 1965 survey (Shatwell, 1966).

Methods

The 2400-foot spaced traverse lines of the 1964 survey were subdivided into traverses 400 feet apart and auger holes drilled at 200-foot intervals along each traverse. Wherever possible, holes were drilled to identifiable weathered rock. In areas of outcrop, samples were collected with a mattock. All samples were submitted to the Australian Mineral Development Laboratories, Adelaide, for determination of copper, lead, zinc, nickel and cobalt by atomic absorption spectrophotometer.

Auger holes were tested for radioactivity with a Harwell type 1368A ratemeter; readings were recorded at intervals of one foot.

Geological mapping was based on the nature of auger cuttings, supplemented by any available outcrop.

Drilling commenced on May 10th and finished on September, 20th 1967. Most of the drilling was done by a Gemco owned and operated by the B.M.R. with some holes drilled by the Mines Branch Gemco. A total of 25,787 feet was drilled in Area 44 Extended, 23,791 feet by the B.M.R. and 1,996 feet by the Mines Branch. 3250 feet were drilled in Coomalie Gap West (Northern Section) by the B.M.R.

STRATIGRAPHY

The geological succession in the Rum Jungle East area has been described by Dodson and Shatwell (1965) and Shatwell (1966).

The following units (in order of increasing age) were recorded in Area 44 Extended (Plate 4).

Acacia Gap Tongue (Masson Formation)
Golden Dyke Formation
Coomalie Dolomite
Crater Formation

Of the above Lower Proterozoic units only the Coomalie Dolomite and Golden Dyke Formation occur in Coomalie Gap West (Northern Section) (Plate 2).

Crater Formation

The Crater Formation occurs on the western margin of Area 44 Extended as a series of rocky ridges which include three horizons of quartz pebble conglomerate. Strike is north-easterly and dips are to the east at 55° - 80°. A medium-grained quartz greywacke crops out between the conglomerate beds. Quartz veins occur in the Crater Formation.

Coomalie Dolomite

Along the boundary with the Crater Formation the Coomalie Dolomite in Area 44 Extended consists of fine-grained quartzite. Other outcrops are of a lateritic type quartz-ironstone breccia and schist and shale.

The non-outcropping areas of the Dolomite are marked by a mantle of deep, well-sorted quartz sand.

A transition horizon of fine-grained dark-grey to black calcilutite separates the quartzitic Coomalie Dolomite from the shales and schists of the Golden Dyke Formation. In Area 44 Extended this horizon extends from 194S to the southern boundary of the area and is easily distinguished in auger cuttings by the black-chocolate soil derived from the limonitic calcilutite.

A small outcrop of coarse-grained dolomite occurs at 268S, 54W, within the transition horizon.

In Coomalie Gap West (Northern Section) a similar calcilutite horizon outcrops as a low rise stratigraphically below the Golden Dyke Formation.

This calcilutite bed proved a valuable marker horizon; its importance to the economic geology of the area will be demonstrated later.

Golden Dyke Formation

Very little of the Golden Dyke Formation is exposed in either of the areas. Outcrop is restricted to two small hills of chert, quartzite and slate in Coomalie Gap West (Northern Section), and to black and brown cherty shale in Area 44 Extended.

The black cherty shales, often pyritic, are associated with quartz veins and pyritic gossans which at 232S, 40W contain 2000 ppm Cu, 500 ppm Pb and 900 ppm Zn. At 218S, 44W chrysocolla was identified in a quartz vein.

Quartz veins and gossan as well as schists are associated with the less pyritic brown cherty shales. The average of three copper analyses from the gossans at 234S, 16W is 250 ppm.

Higher in the sequence is a band of amphibolite, which does not crop out.

Acacia Gap Tongue

The Acacia Gap Tongue which is a member of the Masson Formation, occurs within the Golden Dyke Formation as a richly pyritic quartz sandstone, which outcrops as a very steep hill in the north of Area 44 Extended.

STRUCTURE

The structure of Coomalie Gap West (Northern Section) is dominated by tight folding, well revealed in areas of outcrop. The axes trend north-south.

Area 44 Extended is structurally less complicated, and consists dominantly of a sequence of easterly-dipping sediments. A south-pitching syncline occurs in the Acacia Gap Tongue, but owing to a lack of outcrop the extent of folding in the Golden Dyke Formation cannot be determined.

The quartz veins are probably related to minor faults and shears.

GEOCHEMICAL AND RADIOMETRIC RESULTS

The geochemical and radiometric contours are illustrated in plates 2, 3, 5, 6, 7, 8, 9 and 10.

The geochemical analyses and radiometric results for both areas are tabulated in Appendices 1 and 2.

Geochemical Results

(a) Coomalie Gap West (Northern Section)

No significant anomalies were found in Coomalie Gap West (Northern Section) (Plate 3). Values from single holes are anomalous; e.g. at 356S, 38E, analyses are:

Cu - 190 ppm
Pb - 400 ppm
Zn - 400 ppm
Ni - 345 ppm,

but without supporting values these results attain no significance.

(b) Area 44 Extended

Major lead, copper and zinc anomalies were outlined in Area 44 Extended (Table 1).

(1) Lead

There are three major lead anomalies (Plate 5)

- (i) Area 44 Pb1, has a maximum value at 196S, 54W of 10,000 ppm (Plate 10). The anomaly is centred in the transition bed of calcilutite, but the anomaly as outlined by the 100 ppm contour extends over both the quartzite of the Coomalie Dolomite and the shales of the Golden Dyke Formation. In the Rum Jungle Triangle region, the Coomalie Dolomite/Golden Dyke Formation contact exerts a similar control on the position of geochemical anomalies.

(ii) Area 44 Pb2, with a peak value of 1500 ppm at 240S, 60W is also related to the calcilutite bed. The anomaly outlined by the 100 ppm contour, lies more in the Coomalie Dolomite than the Golden Dyke Formation.

(iii) Area 44 Pb3, lies within the Golden Dyke Formation and is associated with the black cherty shale beds. It has three peaks:

2400 ppm at 232S, 52W
1600 ppm at 236S, 38W
1900 ppm at 256S, 40W

The 1600 ppm peak overlies a gossanous vein quartz outcrop where samples of gossan analysed 350, 200, 240, 500 ppm lead. The vein quartz possibly represents a shear zone in which sulphides have been localised. This anomaly is associated with anomalous radioactivity.

(2) Copper

One major copper anomaly was outlined (Plate 6). Area 44 Cul (Plate 10) has a peak value of 5000 ppm at 196S, 54W and 2400 ppm at 200S, 56W. The anomaly coincides with Area 44 Pbl and is directly related to the calcilutite bed, an outcrop sample of which analysed 1850 ppm Cu.

Small copper anomalies occur in the Coomalie Dolomite at 180S 66W, 196S 70W and at 232S 68W.

High copper values from gossans at 232S 40W, viz 2000 ppm and 195 ppm, found no corresponding high in soil samples. Likewise the quartz vein with chrysocolla at 218S 44W, which analysed 4100 ppm Cu had no correspondence in soil samples.

An interesting case of bedding control on copper values is shown by the amphibolite band between 174S - 246S, 8E - 4E, where the 100 ppm copper contour follows perfectly the non-outcropping boundary of amphibolite as derived from auger cuttings. Such geochemical correspondence would indicate that the "amphibolite" may not be igneous, but rather a metamorphosed calcareous bed in the Golden Dyke Formation.

(3) Zinc

As zinc is more mobile than copper or lead, the zinc contours show greater dispersion (Plate 7). Area 44 Zn1 overlies Area 44 Pbl, Pb2 and part of Pb3, but its northern part shows excellent correspondence to Pbl and Cul (Plate 10). Peak value obtained was 10,000 ppm at 196S 52W, which on redrilling and resampling gave a value of only 1500 ppm. Other highs are:

5500 ppm at 196S 53W
4400 ppm at 212S 56W

At 232S 40W, a 200 ppm soil contour overlies a gossan which analysed 900 ppm Zn.

(4) Nickel/Cobalt

The nickel and cobalt contours are shown on Plate 8.

There is marked coincidence of Area 44 Col and Nil with Pbl, Cul, Znl e.g.

1400 ppm Co at 196S, 54W
560 ppm Ni at 196S, 52W
580 ppm Ni at 200S, 56W (Plate 10)

Area 44 Co2 has a 620 ppm peak at 248S 20W, Area 44 Ni2, 800 ppm at 288S 38W, and Area 44 Ni3, 620 ppm at 264S 2E.

Radiometric Results

(a) Coomalie Gap West (Northern Section)

Radiometric anomalies occupy the eastern position of Coomalie Gap West (Northern Section) with a peak value recorded of 0.04 mR/Hr in a costean and 0.034 mR/Hr in an auger hole at 320S 36E (Plate 2). The anomaly is restricted to the A/B soil horizon, the maximum values being recorded at a depth of 6 - 9 feet. All values decreased with depth and C horizon readings seldom exceeded the 0.015 mR/Hr.

(b) Area 44 Extended

The radiometric contours are shown in Plate 9. As in previous surveys in the Rum Jungle East area, a value of 0.015 mR/Hr was taken as threshold.

(i) R1 lies within the Crater Formation and has peaks of:

0.024 mR/Hr at 176S 76W
0.022 mR/Hr at 188S 80W
0.023 mR/Hr at 208S 80W
0.027 mR/Hr at 280S 86W

Except for the reading at 176S 76W, these are all bottom hole values. As the anomaly overlies areas of outcrop, deep holes were unable to be drilled by Gemco.

(ii) E2 overlies the basal part of the Golden Dyke Formation with a peak of 0.025 mR/Hr at 220S 46W. The anomaly is of interest as the above reading is a bottom hole measurement.

(iii) R3. This anomaly also occurs over the basal part of the Golden Dyke Formation, south of R2. It has three peaks of moderate radioactivity (i.e. greater than 0.040 mR/Hr). However, these values were recorded in the A/B soil horizon and all decreased with depth.

(iv) R4. R4 is a small anomaly which overlies the brown cherty shale bed in the Golden Dyke Formation. Maximum value is 0.026 mR/Hr at 228S 6W.

(v) R5. R5 is a broad anomaly which adjoins R3 at 276S - 288S, and which is in part identical with R4 of the Woodcutters area (Shatwell, 1966).

TABLE 1

SUMMARY OF ANOMALIES - AREA 44 EXTENDED

<u>No / Type</u>	<u>Location</u>	<u>Value</u>	<u>Association</u>	<u>Remarks</u>
Area 44 Pbl	184S - 216S 40W - 60W	2600 ppm at 196S - 55W	Anomalies Cul	Favourable
		10000 ppm at 196S - 54W	Znl, Nil, Col	Stratographic
		5900 ppm at 196S - 53W		position at
		5900 ppm at 196S - 52W		Coomalie Dolomite /
		2700 ppm at 196S - 51W		Golden Dyke
		2500 ppm at 200S - 54W		Formation
		2500 ppm at 212S - 56W		Contact
Area 44 Pb2	224S - 244S 56W - 72W	1500 ppm at 240S - 60W	Znl	Mainly Coomalie Dolomite,
				below Calcilutite bed
Area 44 Pb3	224S - 268S 36W - 54W	2400 ppm at 232S - 52W	Anomalous Zn	In Golden Dyke
		1600 ppm at 236S - 38W	and R3	Formation.
		1900 ppm at 256S - 40W		
Area 44 Cul	192S - 212S 48W - 62W	5000 ppm at 196S - 54W	Anomalies Pbl	
			Znl, Nil, Col	
Area 44 Znl	192S - 240S 40W - 68W	5500 ppm at 196S - 53W	Anomalies Pbl	
		10000 ppm at 196S - 52W	1500 ppm on re-drilling	Cul, Nil, Col
		4400 ppm at 212S - 56W		
		1280 ppm at 224S - 54W		
		1480 ppm at 228S - 58W		
		1200 ppm at 232S - 52W		

<u>No / Type</u>	<u>Location</u>	<u>Value</u>	<u>Association</u>	<u>Remarks</u>
Area 44 Ni 1	192S - 204S 48W - 60W	560 ppm at 196S 52W	Pbl, Cul, Znl, Col	
Area 44 Ni2	276S - 288S 24W - 40W	800 ppm at 288S 38W		
Area 44 - Ni3	260S - 280S 6E - 2W	620 ppm at 264S 2E		
Area 44 Col	192S - 204S 52W - 60W	1400 ppm at 196S 54W 560 ppm at 196S, 52W 560 ppm at 204S 58W	Pbl, Cul, Znl Nil	
Area 44 Co2	236S - 252S 14W - 24W	620 ppm at 248S 20W		
R1	172S - 224S and 280S - 284S 74S - 90W	.024 mR/Hr at 176S 76W .022 mR/Hr at 184S 80W .023 mR/Hr at 208S 80W .027 mR/Hr at 280S 86W		In Crater Formation
R2	200S - 228S 40W - 60W	.025 mR/Hr at 220S 46W		Value from bottom of hole
R3	204S - 288S 4W - 48W	.040 mR/Hr at 256S 38W .042 mR/Hr at 264S 34W .042 mR/Hr at 284S 22W		Value decrease with depth
R4	216S - 232S OOEW - 14W	.026 mR/Hr at 228S 6W		
R5	220S - 288S 16E - 4W	.025 mR/Hr at 256S 6E		Adjoins R3 at 276 - 288S

CONCLUSIONS

Major geochemical anomalies have been outlined in Area 44 Extended. These are situated over a favourable stratigraphic horizon, viz the Coomalie Dolomite/Golden Dyke Formation boundary.

Radiometric anomalies have also been outlined, but as is often the case in areas outside the Rum Jungle Triangle, most of the anomalies can be related to a mantle of transported semi-residual laterite or lateritic type soil.

RECOMMENDATIONS

1. A diamond drilling programme of at least eight holes is recommended to test the geochemical anomalies; two holes have already been collared (December, 1967) at:

67/14 at 196S 50W
67/16 at 212S 53W.

Both holes are testing under Pbl at shallow depth. If successful, additional holes on 196S and 212S will be required as shown in table 2.

TABLE 2
DIAMOND DRILL SITES

	<u>Collar</u>	<u>Azimuth</u>	<u>Depression</u>	<u>Probable length</u>	<u>Target</u>
A	196S 46W	Grid W	60°	600'	Pbl, Cul, Znl
B	200S 48W	Grid W	60°	600'	Pbl, Cul, Znl
C	212S 50W	Grid W	60°	600'	Pbl, Cul, Znl
D	240S 56W	Grid W	60°	400'	Pb2
E	232S 33W	Grid W	60°	600'	Pb3, R3
F	236S 33W	Grid W	60°	600'	Pb3, R3
G	256S 34W	Grid W	60°	600'	Pb3, R3

Total - 4000'

2. A rotary-percussion drilling programme is recommended to test some of the radiometric anomalies (Table 3). An Atlas Copco Air Trak would be the best machine for the job.

TABLE 3

ROTARY PERCUSSION DRILL SITES

<u>Location</u>	<u>No. of Holes</u>	<u>Average Depth</u>	<u>Target</u>
172S - 224S 74W - 90W	12	150'	R1 - Crater Formation
280S, 86W	2	150'	R1 - Crater Formation
220S 44W - 54W	6	150'	R2
228S, 40W	1	150'	R3
256S 38W - 42W	2	150'	R3
264S 30W - 40W	3	150'	R3
284S 20W - 34W	8	150'	R3
	Total	5100'	

3. Auger drilling of the following areas is recommended:

(a) Coomalie Gap West (Southern Section) on a 400 x 200 foot spacing.

(b) Drill the gap between the northern part of the Coomalie Gap West area and the Southern part of Area 44 Extended (i.e. 312S - 288S) on a 400 x 200 foot spacing.

(c) Although they are not regarded as promising economic targets, some further investigation of the one-point geochemical anomalies in Coomalie Gap West (Northern Section), should be undertaken by drilling holes to the maximum depth capacity of the auger 50 foot either side of the peaks at 332S 26E, 344S 36E and 356S 38E.

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APPENDIX 1

GEOCHEMICAL DATA

COOMALIE GAP WEST - NORTHERN SECTION

Geochemical analyses of samples from the Coomalie Gap West area transverse are listed by co-ordinate position and sample number. Samples were analysed at AMDEL by atomic absorption spectrophotometer and all results are in p.p.m. A minus sign (-) in front of a number means "less than".

Mattock samples are marked "M". All others are bottom-hole auger samples with depth shown.

Auger holes were probed (Harwell 1368A ratemeter) for radioactivity; the maximum value for each hole is recorded.

SAMPLE NO.	CO-ORDINATE POSITION		Cu	Pb	Zn	Ni	Co	SAMPLE DEPTH (Feet)	RADIOACTIVITY (mR/Hr)
67121001	360S	46E	45	40	25	70	25	23	.020
02		44E	55	40	80	110	55	17	.011
03		42E	60	70	50	85	65	17	.013
04		40E	60	70	50	85	50	17	.010
05		38E	60	20	70	90	30	12	.008
67121006	360S	36E	20	20	20	35	15	17	.013
67121007	356S	36E	85	95	70	100	55	17	.014
08		38E	190	400	400	345	65	17	.011
09		40E	70	150	60	90	55	17	.014
10		42E	50	70	50	90	35	17	.018
11		44E	50	30	25	65	25	17	.014
12	(Cossan)	43E	20	20	200	90	40	M	-
67121013	356S	46E	50	40	45	95	35	17	.014
67121014	352S	46E	45	30	35	65	35	17	.016
15		44E	30	30	25	40	30	17	.018
16		42E	30	30	18	55	30	17	.016
17		40E	25	40	25	55	25	17	.016
18		30E	70	50	50	65	30	17	.013
19		36E	35	20	30	65	20	17	.008
20		34E	60	75	70	85	50	17	.012
21		32E	60	70	50	90	35	17	.010
22		30E	25	30	25	35	12	17	.009
23		28E	25	25	18	35	12	17	.009
24		26E	40	20	45	115	50	17	.010
25		24E	70	25	20	70	35	17	.011
26		22E	160	20	30	70	65	17	.009
27		20E	75	15	25	65	20	17	.011
28		18E	55	10	70	65	35	17	.011
67121029	352S	16E	5	10	30	85	30	8	.010

SAMPLE NO.	CO-ORDINATE POSITION		Cu	Pb	Zn	Ni	Co	SAMPLE DEPTH (Feet)	RADIOACTIVITY (mR/Hr)
67121030	348S	16E	35	-5	65	60	30	17	.010
31		18E	8	-5	55	40	20	17	.009
32		20E	40	5	30	50	20	17	.009
33		22E	45	5	30	60	20	17	.011
34		24E	35	15	50	35	25	17	.012
35		26E	35	15	20	35	20	17	.011
36		28E	40	65	18	45	45	17	.009
37		30E	55	65	35	55	40	17	.008
38		32E	50	35	45	60	30	17	.013
67121039		34E	90	35	50	85	40	17	.014
67121093		36E	50	30	35	60	20	17	.92
94		38E	70	30	35	70	20	17	.020
95		40E	35	25	20	35	20	11	.016
96		42E	65	25	60	80	20	17	.015
97		44E	65	45	30	70	25	17	.019
67121098	348S	46E	30	30	40	35	15	17	.012
67121085	344S	46E	40	30	25	40	10	23	.013
86		44E	35	40	20	30	10	17	.018
87		42E	75	10	110	90	25	17	.014
88		40E	50	25	25	55	20	17	.015
89		38E	50	25	30	50	20	17	.018
90		36E	125	85	140	250	50	12	-
91		34E	50	50	35	55	20	17	.013
67121092		32E	80	120	95	95	65	17	.011
67121040		30E	60	60	70	80	50	17	.010
41		28E	40	15	25	60	20	8	.008
42		26E	50	30	25	50	25	17	.013
43		24E	55	15	75	65	25	17	.012
44		22E	70	5	18	35	20	11	.011
45		20E	45	20	35	50	25	17	.009
46		18E	35	10	65	40	40	17	.008
47		16E	5	10	50	55	30	17	.010
67121048	344S	14E	5	15	10	35	20	17	.009
67121099	340S	46E	45	25	40	45	25	17	.015
100		44E	40	50	35	30	10	17	.019
01		42E	60	110	300	55	20	17	.022
02		40E	45	25	40	55	15	17	.023
03		38E	55	30	25	50	20	17	.024
04		36E	75	25	30	70	20	17	.020
05		34E	55	35	25	80	25	17	.012
06		32E	40	55	30	50	30	17	.012
67121107	340S	30E	35	40	25	35	25	17	.009

3.

SAMPLE NO.	CO-ORDINATE POSITION		Cu	Pb	Zn	Ni	Co	SAMPLE DEPTH (Feet)	RADIOACTIVITY (mR/Hr)
67121056	340S	28E	70	80	40	60	30	17	.012
55		26E	30	45	50	55	25	17	.009
54		24E	50	15	60	55	20	17	.009
53		22E	50	15	25	50	15	17	.012
52		20E	85	20	60	55	25	17	.010
51		18E	30	10	50	50	25	17	.009
50		16E	85	15	75	50	35	13	.009
67121049	340S	14E	5	10	30	60	30	17	.010
67121061	336S	14E	5	15	35	50	30	17	.009
60		16E	25	15	50	30	30	17	.010
59		18E	45	10	20	35	25	17	.009
58		20E	25	15	45	60	25	17	.010
67121057		22E	140	30	45	80	25	13	.009
67121108		25E	30	30	15	30	20	17	.009
09		26E	55	75	35	55	30	17	.010
10		28E	40	40	30	50	20	17	.008
11		30E	60	15	40	60	20	17	.014
12		32E	65	130	50	85	40	17	.011
13		34E	60	70	40	75	35	17	.014
14		36E	50	20	35	70	20	17	.015
15		38E	280	50	40	85	25	17	.020
16		40E	55	60	25	70	25	17	.019
17		42E	60	30	90	90	25	17	.014
18		44E	45	50	35	75	20	17	.018
6712119	336S	46E	50	70	30	65	25	11	.011
67121120	332S	46E	45	80	30	50	20	8	.011
21		44E	55	25	45	30	5	17	.018
22		42E	60	40	45	55	20	17	.026
23		40E	70	100	40	60	25	17	.019
24		38E	55	30	35	65	55	10	.013
25		36E	50	110	30	60	25	17	.013
26		34E	30	40	25	50	20	17	.015
27		32E	30	30	20	55	20	17	.021
28		30E	80	30	30	90	20	17	.010
29		28E	70	40	25	70	20	17	.022
30		26E	20	20	130	450	100	12	.016
31		24E	35	45	60	80	30	17	.010
67121132		22E	50	80	40	70	40	17	.012
67121065		20E	65	25	25	40	15	17	.010
64		18E	15	15	65	50	20	17	.010
63		16E	30	25	30	50	30	17	.010
67121062	332S	14E	20	25	40	40	25	17	.011

SAMPLE NO.	CO-ORDINATES POSITION		Cu	Pb	Zn	Ni	Co	SAMPLE DEPTH (Feet)	RADIOACTIVITY (mR/Hr)
67121069	328S	14E	35	5	50	120	30	17	.013
68		16E	10	-5	20	95	20	17	.014
67		18E	25	5	100	45	20	12	.016
67121066	328S	20E	35	10	110	40	25	17	.014
67121133	328S	22E	60	60	40	75	35	17	.016
34		24E	40	35	50	85	35	12	.019
35		26E	30	10	30	70	35	17	.021
36		28E	70	15	5	20	5	17	.019
37		30E	60	15	50	120	20	17	.016
38		32E	25	30	20	55	20	17	.012
39		34E	50	50	30	85	30	17	.019
40		36E	50	45	20	85	20	17	.022
41		38E	40	30	35	50	20	17	.017
42		40E	45	30	35	60	20	23	.018
43		42E	50	50	180	40	25	23	.015
44		44E	50	40	110	90	25	17	.012
67121145	328S	46E	40	50	25	35	12	6	.009
67121146	324S	46E	60	30	70	95	25	17	.014
47		44E	50	40	25	50	20	6	.010
48		42E	60	60	25	65	25	17	.016
49		40E	35	40	50	65	25	17	.022
50		38E	35	20	30	40	12	17	.019
51		36E	45	40	20	65	25	17	.021
52		34E	65	40	30	85	25	17	.026
53		32E	30	20	80	65	30	17	.014
54		30E	85	20	25	50	10	17	.015
55		28E	20	10	3	5	-5	17	.016
56		26E	45	10	30	50	15	17	.022
67121157	324S	24E	30	15	50	70	25	17	.013
67121074		22E	50	35	20	60	35	17	.018
73		20E	30	20	40	40	20	17	.009
72		18E	35	20	20	55	40	17	.012
71		16E	40	35	25	55	35	17	.018
67121070	324S	14E	25	5	40	60	20	17	.016
67121077	320S	14E	35	10	60	60	20	15	.017
76		16E	20	5	20	40	20	13	.013
67121075		18E	35	25	40	60	30	17	.014
67121158		20E	45	30	25	55	30	'M'	-
59		22E	30	25	15	35	20	17	.010
60		24E	230	30	25	120	40	17	.009
61		26E	15	10	5	5	5	'M'	-
62		28E	12	5	4	5	-5	'M'	-
67121163	320S	29E	45	5	5	15	5	17	.020

SAMPLE NO.	CO-ORDINATE POSITION		Cu	Pb	Zn	Ni	Co	SAMPLE DEPTH (Feet)	RADIOACTIVIT (mR/Hr)
67121164	328S	30E	85	25	8	35	20	17	.018
65		32E	70	40	40	110	25	17	.018
66		34E	85	30	25	55	15	17	.033
67		36E	80	45	25	85	35	17	.034
68		38E	40	30	55	60	25	23	.018
69		40E	40	50	25	55	30	17	.016
70		42E	60	85	60	70	35	23	.015
71		44E	50	60	20	40	25	17	.023
67121172	320S	46E	60	60	40	70	35	17	.014
67121173	316S	46E	35	95	25	25	12	12	.011
74		44E	45	90	25	25	15	23	.014
75		42E	45	40	30	55	12	17	.017
76		40E	40	45	25	50	20	17	.024
77		38E	50	70	30	65	25	17	.027
78		36E	40	50	20	40	20	17	.025
79		34E	40	30	25	60	12	17	.032
80		32E	60	30	60	80	20	17	.027
81		30E	20	25	10	20	10	17	.014
82		28E	35	10	15	10	10	17	.017
83		26E	45	35	12	35	12	17	.013
84		24E	45	30	8	30	15	17	.016
67121185		22E	55	50	25	70	50	17	.016
67121081		20E	25	5	20	35	15	17	.010
80		18E	35	10	60	65	25	17	.014
79		16E	15	-5	60	60	20	17	.016
67121078	316S	14E	8	5	50	50	20	17	.013
67121084	312S	14.5E	20	15	50	60	15	17	.010
83		16E	20	-5	40	45	15	17	.013
67121082	312S	18E	55	5	75	70	25	17	.015
67121186		21E	70	25	3	10	-5	17	.016
87		22E	150	50	3	15	-5	17	.021
88		24E	20	10	3	15	5	17	.024
89		26E	125	30	10	20	15	17	.022
90		28E	45	20	75	55	20	17	.020
91		30E	85	20	40	40	25	17	.020
92		32E	60	40	60	85	25	17	.019
93		34E	50	50	35	85	25	17	.029
94		36E	45	45	45	115	35	17	.022
95		38E	40	65	30	55	25	17	.015
96		40E	20	20	18	35	20	17	.014
97		42E	20	20	10	20	5	17	.015
67121198	312S	44E	25	25	25	20	5	23	.016
67121199	312S	46E	45	95	35	35	12	8	.011

APPENDIX 2

GEOCHEMICAL DATA

AREA 44 EXTENDED

Geochemical analyses of samples from the Area 44 Extended transverses are listed by co-ordinate position and sample number. Samples were analysed at AMDEL by atomic absorption spectrophotometer and all results are in p.p.m. A minus sign (-) in front of a number means "less than".

Mattock samples are marked "M". All others are auger samples with depth shown.

Auger holes were probed (Harwell 1368A ratemeter) for radioactivity; the maximum value for each lode is recorded.

SAMPLE NO.	CO-ORDINATE POSITION	Cu	Pb	Zn	Ni	Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)	
67121248	168S	16E	35	20	70	65	20	.012	23
49		14E	65	25	100	80	25	.011	23
50		12E	55	15	90	80	25	.011	23
51		10E	50	15	110	80	25	.011	23
52		8E	65	20	75	85	25	.012	23
53		6E	30	25	35	65	20	.010	11
54		4E	35	20	50	40	15	.012	23
67121255		2E	50	15	60	50	20	.014	23
67121200	168S	00EW	25	30	20	30	20	.008	5
01		2W	70	25	100	65	20	.009	23
02		4W	35	30	30	35	25	.009	17
03		6W	30	25	25	35	12	.008	23
04		8W	35	25	40	35	20	.013	23
05		10W	25	20	60	65	20	.012	23
06		12W	60	25	25	12	10	.012	23
67121207		14W	60	45	25	40	20	.012	22
67121209		16W	20	15	8	5	5	M / S A M P L E.	
10		18W	20	15	8	45	5	"	"
11		20W	15	15	10	10	5	"	"
12		22W	12	10	6	-5	-5	"	"
13		24W	20	15	5	-5	-5	"	"
14		26W	25	10	8	15	10	"	"
15		28W	12	5	8	-5	5	"	"
16		30W	8	5	5	-5	-5	"	"
17		32W	8	5	5	-5	-5	"	"
18		34W	10	5	5	5	5	"	"
19		36W	8	5	3	-5	5	"	"
20		38W	15	5	5	5	5	"	"
21		40W	20	15	5	12	10	"	"
67121445		42W	50	15	65	35	15	.009	17
46		44W	30	15	25	12	8	.010	23
67121447	168S	46W	35	45	15	35	15	.006	11

SAMPLE NO.	CO-ORDINATE POSITION	Cu	2.		Zn	Ni	Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
			Pb						
67121448	168S	48W	20	30	10	15	15	.006	11
49		50W	40	30	10	40	25	.007	5
50		52W	35	30	12	40	20	.006	5
51		54W	40	25	12	40	20	.009	5
52		56W	70	50	18	75	30	.010	11
53		58W	55	15	15	70	15	.009	11
54		60W	50	15	45	85	25	.009	11
55		62W	40	45	15	40	20	.009	5
56		64W	95	30	40	35	10	.008	11
57		66W	90	30	110	60	15	.009	5
58		68W	40	30	15	10	8	.007	5
59		70W	15	25	8	10	5	.008	11
60		72W	70	50	15	75	15	.009	5
61		74W	35	25	10	35	20	.009	3
62		76W	35	20	10	30	8	.010	11
63		78W	30	15	10	35	15	.008	11
64		80W	15	40	5	15	8	.008	11
65		82W	25	50	10	35	15	.008	11
66		84W	55	60	260	150	100	.013	11
67		86W	10	15	20	20	8	.008	17
68		88W	55	50	260	110	120	.013	17
67121469	168S	90W	30	25	70	60	85	.009	17
67121418	172S	90W	20	10	45	20	50	.006	13
19		88W	10	15	-5	-5	-5	.008	17
20		86W	20	20	8	5	-5	.009	17
21		84W	30	20	5	10	-5	.007	17
22		82W	35	10	8	25	5	.007	17
23		80W	30	10	8	25	-5	.007	11
24		78W	15	10	5	-5	-5	.006	17
25		76W	16	10	-5	-5	-5	.007	11
26		74W	10	40	-5	-5	-5	.008	11
27		72W	8	10	-5	-5	-5	.009	11
28		70W	10	10	5	-5	-5	M / S A M P L E	
29		68W	65	20	60	15	-5	.007	11
30		66W	70	35	55	90	65	.006	7
31		64W	40	10	10	20	-5	.004	11
32		62W	8	-5	5	-5	-5	.006	17
33		60W	20	10	8	10	-5	.004	16
34		58W	30	35	30	90	60	.007	17
35		56W	60	80	20	40	10	.006	17
36		54W	55	45	18	45	10	.008	17
37		52W	20	10	10	15	5	.008	17
38		50W	30	30	20	20	5	.009	12
67121439	172S	48W	15	10	10	5	5	.008	17

SAMPLE NO.	CO-ORDINATE POSITION	Cu	Pb	3.			Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
				Zn	Ni				
67121440	172S	46W	25	10	18	5	-5	.010	17
41		44W	30	15	40	30	15	.010	11
42		42W	30	70	60	35	20	.008	11
43		40W	25	20	18	20	10	.005	5
44		38 W	20	15	8	8	5	M / S A M P L E	
67121222	172S	36W	15	15	8	15	5	M/ S A M P L E	
23		34W	20	15	10	20	5	"	"
24		32W	25	15	10	25	10	"	"
25		30W	15	5	5	12	-5	"	"
26		28W	30	10	8	15	10	"	"
27		26W	10	10	8	12	5	"	"
28		24W	8	5	8	10	5	"	"
29		22W	10	10	8	15	5	"	"
30		20W	10	10	8	20	5	"	"
31		18W	15	10	5	20	5	"	"
67121208	172S	16W	30	35	12	50	12	.011	15
67121232	172S	14W	25	15	35	35	20	.014	20
33		12W	40	25	40	50	15	.011	23
34		10W	30	15	85	75	25	.014	23
35		8W	40	20	25	50	20	.012	23
36		6W	35	25	20	25	12	.013	23
37		4W	30	25	20	35	20	.011	13
38		2W	30	15	130	60	25	.013	23
67121239	172S	00EW	40	100	70	65	30	.013	23
40		2E	45	20	65	65	30	.013	23
41		4E	50	15	70	55	30	.016	23
42		6E	55	25	60	70	25	.013	23
43		8E	50	20	60	70	25	.013	23
44		10E	55	25	45	60	25	.012	23
45		12E	70	25	80	80	30	.013	23
46		14E	70	30	70	70	25	.011	23
47		16E	55	15	65	70	35	.013	23
67121256	176S	16E	50	20	60	60	20	.014	23
57		14E	45	25	70	70	25	.012	23
58		12E	70	15	80	60	25	.014	23
59		10E	40	15	55	55	20	.013	23
60		8E	50	20	70	70	35	.014	23
61		6E	140	30	95	70	55	.007	23
62		4E	35	25	60	55	25	.013	23
63		2E	40	15	50	55	20	.018	23
64		00EW	40	35	30	40	25	.013	8
65		2W	20	15	45	65	20	.009	23
67121266	176S	4W	40	30	25	50	20	.007	11

SAMPLE NO.	CO-ORDINATE POSITION		Cu	Pb	Zn	Ni	Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
67121267	176S	6W	30	20	20	35	12	.010	23
68		8W	40	25	20	35	12	.010	23
69		10W	40	20	25	35	12	.012	23
70		12W	75	15	600	290	35	.015	23
71		14W	25	20	20	12	10	.012	13
72		16W	60	25	60	25	10	.012	23
73		18W	20	35	5	10	5	.014	23
67121382	176S	20W	25	20	10	20	-5	M / S A M P L E	
83		22W	30	20	10	20	5	"	"
84		24W	20	10	8	15	-5	"	"
85		26W	30	10	18	20	-5	"	"
86		28W	25	40	10	15	-5	"	"
87		30W	20	20	8	15	-5	"	"
88		32W	15	10	8	15	-5	"	"
89		34W	20	10	5	5	-5	"	"
90		36W	20	10	10	15	-5	"	"
91		38W	55	20	40	50	-5	.008	23
92		40W	50	35	60	70	20	.014	23
93		42W	55	50	120	50	-5	.012	23
94		44W	45	30	40	35	-5	.011	23
95		46W	45	20	60	60	-5	.012	23
96		48W	55	10	50	35	-5	.011	23
97		50W	35	40	20	35	-5	.006	8
98		52W	40	50	15	35	-5	.010	17
99		54W	45	70	15	40	5	.011	17
67121400		56W	65	70	20	40	10	.008	23
01		58W	80	60	25	75	20	.007	11
02		60W	30	30	8	25	-5	.007	17
03		62W	20	20	8	15	5	.007	17
04		64W	25	10	5	20	-5	.005	17
05		66W	45	10	8	30	5	.005	7
06		68W	105	50	75	75	10	.006	11
07		70W	40	10	45	20	-5	.009	11
08		72W	15	20	10	-5	-5	.008	17
09		74W	60	10	8	-5	-5	.010	23
10		76W	55	30	10	5	-5	.022	23
11		78W	35	30	12	20	5	.008	5
12		80W	30	40	8	10	-5	.006	11
13		82W	55	30	12	30	10	.007	12
14		84W	25	30	5	5	-5	.008	12
15		86W	20	20	8	-5	-5	.009	17
67121416	176S	88W	10	45	-5	-5	-5	.007	17

5.

SAMPLE NO.	CO-ORDINATE POSITION		Cu	Pb	Zn	Ni	Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
67121417	176S	90W	10	50	-5	-5	-5	.007	17
67121349	180S	90W	10	35	5	8	5	.010	17
50		88W	20	45	8	20	12	.015	17
51		86W	20	35	5	10	5	.016	17
67121352	180S	84W	10	35	5	8	-5	.012	17
53		82W	8	30	5	15	5	.008	16
54		80W	5	30	5	10	-5	.010	17
55		78W	5	170	-5	-5	-5	.019	17
56		76W	35	15	5	-5	-5	.011	17
57		74W	5	15	5	-5	-5	.012	17
58		72W	25	35	5	15	5	.013	7
59		70W	150	30	110	440	100	.017	17
60		68W	440	40	25	270	55	.012	17
61		66W	1500	25	25	110	30	.012	17
62		64W	35	10	-5	15	-5	.011	11
63		62W	40	40	10	25	5	.011	17
64		60W	20	10	8	25	5	.013	11
65		58W	50	30	15	50	10	.011	11
66		56W	60	60	15	50	15	.010	11
67		54W	15	20	35	15	5	.016	23
68		52W	8	10	12	5	-5	.012	21
69		50W	5	10	8	5	-5	.009	17
70		48W	55	30	10	10	-5	.014	23
71		46W	40	20	55	50	-5	.015	23
72		44W	65	30	120	60	5	.013	23
73		42W	50	40	120	60	5	.012	23
74		40W	20	15	100	80	5	.012	23
75		38W	35	25	120	80	-5	.012	23
76		36W	60	50	60	30	10	.012	23
77		34W	30	30	25	20	5	M / S A M P L E	
78		32W	20	20	10	10	-5	"	"
79		30W	20	10	5	10	-5	"	"
67121380	180S	28W	25	30	10	10	-5	"	"
81		26W	20	30	8	15	-5	"	"
67121274	180S	24W	45	35	10	12	15	.013	23
75		22W	50	45	5	20	14	.015	23
76		20W	60	30	12	20	12	.014	23
77		18W	75	35	20	35	20	.010	6
78		16W	40	45	15	15	15	.013	12
79		14W	40	30	30	10	12	.013	23
80		12W	115	25	330	200	25	.012	23
81		10W	30	20	30	50	15	.012	23
82		8W	30	15	20	30	15	.012	23
67121283	180S	6W	25	15	40	50	15	.013	23

SAMPLE NO.	CO-ORDINATE POSITION		Cu	Pb	Zn	Ni	Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
67121284	180S	4W	45	25	60	50	20	.014	23
85		2W	35	25	65	55	12	.012	23
86		00EW	70	15	85	75	25	.011	23
87		2E	40	15	50	40	20	.013	23
88		4E	50	25	80	65	25	.012	23
89		6E	175	30	90	50	50	.007	23
90		8E	180	35	95	60	65	.010	17
91		10E	80	30	80	60	30	.012	23
92		12E	45	25	95	50	50	.015	23
93		14E	45	30	65	55	25	.015	23
94		16E	50	25	60	70	25	.015	23
95	184S	16E	50	25	95	55	20	.016	23
96		14E	60	20	60	50	15	.015	23
97		12E	30	15	45	50	20	.014	23
98		10E	50	25	70	50	20	.009	23
99		8E	145	30	90	50	55	.005	23
67121300		6E	50	25	65	60	20	.010	23
01		4E	200	30	95	55	60	.008	23
02		2E	50	25	85	65	20	.010	23
03		00EW	40	30	40	25	12	.014	23
04		2W	50	70	40	35	12	.015	17
05		4W	30	35	30	15	5	.014	22
06		6W	35	45	40	25	5	.016	23
07		8W	40	50	35	15	5	.012	29
08		10W	35	35	45	20	5	.014	29
09		12W	45	45	110	60	10	.011	23
10		14W	20	35	100	30	15	.012	29
11		16W	20	50	12	-5	5	.013	18
12(A)		18W	65	45	5	5	5	.013	23
12(B)	Gossan	18W	40	95	30	18	35		
13		20W	40	90	60	35	12	.011	12
14		22W	20	35	75	50	20	.015	18
15		24W	35	50	15	-5	5	.013	23
16		26W	65	45	18	10	12	.015	23
17		28W	50	45	15	8	10	.013	23
18		30W	20	55	20	5	-5	.016	23
19		32W	70	35	850	760	80	.013	23
20		34W	45	70	55	35	12	.016	23
21		36W	30	100	160	60	10	.021	23
22		38W	50	100	150	40	35	.010	23
23		40W	30	35	70	30	5	.012	23
67121324	184S	42W	60	45	85	80	15	.015	23

SAMPLE NO.	CO-ORDINATE POSITION	Cu	Pb	Zn	Ni	Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)	
67121325	184S	44W	80	45	160	110	20	.015	23
26		46W	50	35	200	220	35	.014	23
27		48W	20	45	12	5	-5	.015	23
28		50W	8	25	3	5	-5	.010	23
29		52W	10	45	3	-5	-5	.008	23
30		54W	15	45	3	5	5	.008	8
31		56W	20	125	3	5	5	.011	23
32		58W	15	70	5	8	-5	.009	23
33		60W	35	65	8	25	10	.005	6
34		62W	15	35	5	8	5	.005	5
35		64W	20	55	5	8	12	.005	5
36		66W	65	45	30	50	20	.006	8
37		68W	70	35	8	55	15	.004	8
38		70W	95	45	8	70	25	.004	5
39		72W	12	25	5	30	35	.004	5
40		74W	20	45	5	10	5	.007	5
41		76W	10	45	3	-5	-5	.004	5
42		78W	12	25	3	5	-5	.012	8
43		80W	5	15	3	-5	-5	.017	17
44		82W	5	25	3	5	-5	.007	6
45		84W	10	45	15	20	12	.010	12
46		86W	20	45	8	15	10	.011	17
47		88W	45	45	10	30	12	.017	17
48		90W	25	35	10	35	12	.016	17
67121470	188S	90W	40	20	12	55	20	.014	17
71		88W	40	15	8	20	8	.013	17
72		86W	20	15	5	10	8	.012	11
73		84W	5	10	-5	-5	-5	.013	17
74		82W	5	5	5	-5	-5	.012	17
75		80W	5	5	-5	-5	-5	.022	15
76		78W	5	15	5	5	5	.011	5
77		76W	10	15	12	5	-5	.017	17
78		74W	10	5	15	8	5	.011	23
79		72W	30	10	40	55	40	.008	17
67121480		70W	120	15	30	80	20	.007	17
81		68W	45	20	10	30	8	.006	6
82		66W	25	15	10	25	8	.006	5
83		64W	135	35	35	80	25	.006	8
84		62W	45	25	15	35	8	.006	11
85		60W	70	25	15	55	15	.007	11
86		58W	80	35	20	75	15	.007	11
67121487	188S	56W	65	40	20	60	25	.009	11

SAMPLE NO.	CO-ORDINATE POSITION		Cu	Pb	Zn	Ni	Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
67121488	188S	54W	20	30	12	12	5	.007	11
89		52W	80	720	30	35	15	.009	11
67121490		50W	55	1050	30	25	5	.018	17
67122610A	188S	50W	35	45	25	25	10	-	5
B		50W	65	130	100	60	10	.016	23
67121491		48W	35	10	80	40	8	.014	17
92		46W	30	35	65	70	15	.013	23
93		44W	60	45	120	80	20	.016	20
94		42W	50	770	350	110	35	.012	17
95		40W	45	150	70	60	8	.012	23
96		38W	25	25	60	35	8	.013	23
97		36W	55	470	1250	60	15	.013	23
98		34W	25	25	50	50	10	.012	23
99		32W	35	30	40	60	10	.011	17
67121500		30W	120	15	140	110	100	.010	23
01		28W	30	20	30	20	8	.011	23
02		26W	50	50	60	55	20	.009	6
03		24W	35	45	100	100	35	.013	23
04		22W	10	55	15	10	8	.010	17
05		20W	55	45	40	55	10	.010	17
06		18W	15	35	18	12	10	.010	17
07		16W	30	25	50	35	15	.010	5
08		14W	100	25	80	70	20	.016	17
09		12W	30	30	40	50	15	.013	17
67121510	188S	10W	35	30	40	55	20	.011	17
11		8W	25	25	20	20	10	.011	17
12		6W	30	25	20	35	10	.012	17
13		4W	50	15	60	55	10	.011	17
14		2W	50	35	55	40	10	.013	23
15		00EW	45	45	40	50	20	.010	10
16		2E	20	10	20	10	8	.010	17
17		4E	55	40	75	70	35	.010	17
18		6E	110	25	140	480	75	.009	17
19		8E	280	25	95	60	40	.010	17
20		10E	50	15	65	40	20	.012	17
21		12E	80	30	80	65	40	.011	17
22		14E	50	20	65	40	25	.011	17
23		16E	75	15	110	75	20	.011	23
67122611A	190S	52W	40	100	25	30	10	-	5
B		52W	45	390	20	10	-5	.011	23
67121524	192S	16E	45	10	40	15	8	.012	23
25		14E	40	15	75	80	25	.010	17
67121526	192S	12E	100	10	65	55	35	.013	17

SAMPLE NO.	CO-ORDINATE POSITION	Cu	Pb	Zn	Ni	Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
67121527	192S 10E	50	15	110	65	25	.011	17
28	8E	50	35	95	55	25	.011	17
29	6E	45	20	45	35	15	.013	17
30	4E	40	30	70	40	35	.011	17
31	2E	45	5	70	70	25	.009	17
32	00EW	45	30	45	65	30	.010	17
33	2W	40	10	20	35	8	.016	17
34	4W	40	10	40	35	8	.013	17
35	6W	40	15	35	55	40	.012	17
36	8W	40	15	45	50	15	.014	17
37	10W	55	20	35	85	35	.012	11
38	12W	50	25	45	80	25	.011	8
39	14W	80	45	230	150	40	.012	17
67121540	16W	40	25	140	100	35	.010	16
41	18W	25	25	10	15	15	.010	23
42	20W	60	35	30	60	20	.009	17
43	22W	75	25	140	65	15	.013	17
44	24W	40	10	50	60	8	.010	17
45	26W	65	25	90	80	25	.009	6
46	28W	140	45	250	180	35	.014	23
47	30W	80	35	300	250	25	.012	17
48	32W	40	45	60	70	30	.011	23
49	34W	85	15	70	80	25	.010	17
67121550	36W	50	110	110	60	15	.009	17
51	38W	70	25	50	85	25	.011	23
52	40W	55	45	40	40	10	.015	17
53	42W	30	15	40	90	18	.011	23
54	44W	35	35	25	55	15	.012	23
55	Ironstone 44W	1600	620	180	350	300	.009	17
56	46W	50	35	25	20	12	.006	5
57	48W	120	140	30	110	35	.006	5
58	50W	155	230	40	100	35	.006	5
59	52W	180	270	75	90	35	.007	11
67121560	54W	150	950	70	70	25	.005	5
67122612A	54W	50	400	15	35	10	-	5
12B	54W	170	830	110	135	40	.010	17
67121561	56W	85	50	15	70	30	.005	5
62	58W	70	40	10	55	20	.006	11
63	60W	105	35	15	70	25	.007	11
64	62W	60	35	15	35	18	.008	11
65	64W	10	5	-5	5	5	.006	11
66	66W	20	15	-5	10	8	.007	11
67121567	192S 68W	100	35	5	70	12	.008	17

SAMPLE NO.	CO-ORDINATE POSITION	Cu	Pb	Zn	Ni	Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
67121568	192S 70W	190	20	15	60	15	.007	17
69	72W	280	25	140	180	75	.010	5
67121570	74W	10	20	5	5	8	.012	11
71	76W	5	35	75	15	10	.015	16
72	78W	20	5	15	10	5	.010	5
73	80W	15	15	5	10	8	.013	11
74	82W	15	15	8	15	8	.008	11
75	84W	35	15	8	20	8	.009	11
76	86W	35	15	10	25	12	.009	11
77	88W	35	15	10	25	12	.013	17
78	90W	25	35	25	45	20	.012	17
67122613A	194S 54W	90	235	25	50	20	-	5
B	54W	295	60	65	70	75	.011	23
4A	52W	100	440	70	60	30	-	5
B	52W	130	1700	1300	140	140	.017	23
5A	50W	85	260	50	75	25	-	5
B	50W	125	255	125	80	20	.012	23
67121579	196S 90W	30	20	15	50	25	.013	11
80	88W	25	20	8	20	8	.012	17
81	86W	20	15	8	20	8	.010	11
82	84W	5	5	-5	10	-5	.014	11
83	82W	5	60	-5	-5	-5	.018	17
84	80W	5	100	5	5	-5	.014	13
85	78W	15	20	5	8	-5	.011	7
86	76W	20	15	5	8	-5	.010	14
87	74W	50	80	8	8	-5	.008	5
88	72W	50	5	5	8	-5	.008	11
89	70W	1350	15	20	110	55	.011	11
67121590	68W	90	20	5	40	8	.006	11
91	66W	1300	60	120	460	220	.008	11
92	64W	85	35	25	45	20	.008	11
93	62W	120	35	12	30	12	.006	11
94	60W	50	30	20	35	12	.005	11
95	58W	15	20	5	5	8	.009	11
96	56W	60	150	10	30	15	.007	11
67122620A	55W	210	1600	40	55	15	-	5
20B	55W	460	2600	90	85	5	.007	23
67121597	54W	5000	10000	680	330	1200	.010	23
67122619A	54W	300	2000	110	110	180	-	5
19B	54W	4300	6300	640	500	1400	.009	23
18A	53W	250	905	130	85	75	-	5
18B	53W	830	5900	5500	540	460	.011	23
67122617A	196S 52W	240	1400	200	105	95	-	5

SAMPLE NO.	CO-ORDINATE POSITION	Cu	Pb	Zn	Ni	Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
67122617B	196S 52W	235	5900	1520	365	560	.013	23
67121598	52W	230	4500	10000	560	340	.013	23
67122616A	51W	185	2300	250	170	140	-	5
16B	51W	235	2750	440	110	40	.015	23
67121599	50W	30	390	75	20	25	.012	23
67121600	48W	90	230	20	20	10	.010	17
01	46W	55	100	25	25	10	.010	17
02	44W	35	50	15	30	12	.015	17
03	42W	20	15	15	12	8	.015	17
04	40W	60	120	35	70	25	.012	6
05	38W	40	20	30	30	10	.014	17
06	36W	45	50	170	60	25	.011	17
07	34W	45	680	360	30	12	.012	17
08	32W	85	15	70	60	25	.010	17
09	30W	30	5	30	45	15	.012	17
67121610	28W	70	110	30	30	20	.012	17
11	26W	55	30	30	55	25	.010	7
12	24W	50	15	170	120	60	.009	17
13	22W	20	20	45	25	15	.012	17
14	20W	20	15	100	60	20	.009	5
15	18W	30	5	80	55	20	.011	17
16	16W	80	-5	180	130	110	.013	23
17	14W	30	5	55	65	30	.012	29
18	12W	40	20	30	55	25	.013	17
19	10W	40	5	35	45	15	.012	17
67121620	8W	55	20	60	60	30	.011	23
21	6W	25	15	35	35	12	.011	23
22	4W	95	20	80	80	25	.011	23
23	2W	60	15	40	30	20	.012	17
24	00EW	45	15	65	70	35	.010	23
25	2E	40	20	55	50	35	.012	17
26	4E	65	70	45	70	75	.013	17
27	6E	135	20	110	65	70	.013	11
28	8E	170	20	100	65	70	.010	23
29	10E	65	15	60	45	20	.004	17
67121630	12E	60	5	75	55	25	.011	17
31	14E	60	15	80	70	25	.010	17
32	14E	40	15	55	25	10	.010	17
67122621A	198S 56W	140	620	800	300	100	-	5
21B	56W	60	250	15	15	-5	.007	23
22A	54W	230	710	120	75	70	-	5
22B	54W	625	895	880	130	200	.010	23
67122623A	198S 52W	270	900	150	105	95	-	5

SAMPLE NO.	CO-ORDINATE POSITION	12.					RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)	
		Cu	Pb	Zn	Ni	Co			
67122623B	198S	52W	80	1600	1600	230	120	.011	23
67121667	200S	52W	55	180	340	130	85	.014	23
68		54W	360	2400	490	90	80	.012	17
67122624A		54W	470	2300	300	180	210	-	5
24B		54W	425	2500	910	140	150	.012	23
25A		56W	1700	2300	850	540	560	-	5
25B		56W	2400	530	760	580	440	.008	17
25C		56W	1850	45	92	415	250	M / S A M P L E	
67121669		56W	1750	280	730	290	60	.009	5
70		58W	180	310	115	95	20	.006	12
71		60W	420	160	350	300	170	.009	17
72		62W	30	25	10	25	-5	.005	11
73		64W	30	15	5	20	-5	.004	6
74		66W	10	20	5	5	5	.009	16
75		68W	20	30	5	10	5	.008	11
76		70W	70	40	10	15	5	.008	11
77		72W	80	15	50	35	5	.013	11
78		74W	10	10	10	5	-5	M / S A M P L E	
79		76W	25	10	10	10	5	.008	11
67121680		78W	40	60	25	10	5	.009	11
81		80W	20	20	5	5	5	.018	11
82		82W	5	40	10	5	5	.015	9
83		84W	-5	5	10	-5	5	.014	11
84		86W	20	20	10	10	10	.012	11
85		88W	5	45	10	15	5	.012	11
86		90W	15	35	10	15	5	.013	11
67122626A	202S	56W	155	610	150	125	80	-	5
26B		56W	260	30	810	360	40	.008	17
27A		54W	185	1500	260	115	110	-	5
27B		54W	300	1800	490	100	120	.011	23
67121687	204S	90W	15	30	10	15	10	.010	11
88		88W	12	25	10	20	10	.009	11
89		86W	10	20	10	150	10	.012	11
67121690		84W	-5	20	-5	-5	-5	.016	11
91		82W	-5	15	-5	5	-5	.015	17
92		80W	5	20	-5	-5	5	.021	5
93		78W	20	30	10	15	5	.021	8
94		76W	5	5	15	10	5	.013	17
95		74W	35	20	15	10	5	.009	5
96		72W	110	30	25	45	20	.008	5
97		70W	15	10	-5	5	-5	.008	11
98		68W	15	55	10	15	15	.005	5
99		66W	10	20	10	10	10	.010	11
67121700		64W	20	20	5	10	5	.007	11
67121701	204S	62W	35	55	15	30	20	.006	11

SAMPLE NO.	CO-ORDINATES POSITION	Cu	Pb	Zn	Ni	Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
67121702	204S 60W	85	250	30	35	15	.006	11
03	58W	435	620	710	300	560	.010	17
04	56W	30	30	420	55	25	.011	23
05	54W	190	160	230	60	70	.011	17
06	52W	110	40	130	40	25	.011	17
07	50W	65	260	100	45	10	.020	17
08	48W	30	55	40	30	5	.010	17
09	46W	35	35	15	25	5	.010	17
67121710	44W	45	35	30	30	15	.012	17
11	42W	60	140	30	50	10	.011	17
12	40W	30	70	30	30	10	.015	17
13	38W	40	15	35	50	15	.012	17
14	36W	50	25	30	30	10	.012	17
15	34W	55	30	60	70	20	.012	17
16	32W	50	25	40	40	20	.009	17
17	30W	35	15	40	50	5	.011	17
18	28W	35	15	20	40	10	.011	17
19	26W	50	40	30	60	10	.008	6
67121720	24W	30	15	30	25	5	.011	17
21	22W	40	15	45	40	10	.007	17
22A	20W	35	15	30	55	30	.007	17
22B Gossan	20W	50	40	50	100	25	-	-
23	18W	20	25	60	40	25	.006	17
24	16W	60	30	90	40	10	.007	17
25	14W	190	15	95	70	25	.007	17
67121726	204S 12W	120	15	110	35	5	.007	17
67121633	200S 16E	75	5	80	55	25	.013	23
34	14E	80	20	130	80	30	.013	17
35	12E	55	20	100	80	30	.010	17
36	10E	60	15	80	70	25	.010	17
37	8E	240	15	110	55	50	.007	17
38	6E	55	5	70	55	20	.012	18
39	4E	25	10	80	45	15	.012	17
40	2E	60	5	80	65	20	.012	17
41	00EW	40	5	75	70	35	.011	17
42	2W	40	30	40	40	12	.012	17
43	4W	45	15	35	45	50	.010	17
44	6W	110	15	85	50	25	.011	23
45	8W	30	20	85	60	20	.010	17
46	10W	20	30	55	65	35	.011	23
47	12W	25	20	45	60	40	.012	17
48	14W	20	20	40	40	25	.010	17
49	16W	40	15	80	100	25	.011	11
67121650	200S 18W	25	20	120	110	25	.010	17

SAMPLE NO.	CO-ORDINATES POSITION	Cu	Pb	Zn	Ni	Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)	
67121651	200S	20W	30	30	160	160	60	.012	26
52		22W	35	20	160	160	60	.011	17
53		24W	35	20	70	75	65	.010	17
54		26W	25	20	50	65	25	.010	17
55		28W	30	15	35	35	20	.010	23
56		30W	50	15	80	65	20	.010	23
57		32W	55	10	40	20	20	.010	17
58		34W	70	15	80	65	25	.010	17
59		36W	25	20	25	30	20	.012	17
671216600		38W	55	30	40	40	12	.014	17
61		40W	20	30	55	65	20	.013	17
62		42W	35	30	30	45	12	.015	17
63		44W	100	200	60	40	15	.011	17
64		46W	40	250	80	45	30	.011	17
65		48W	50	120	35	25	15	.010	17
66		50W	70	70	400	150	45	.015	17
67121727	204S	10W	80	25	100	55	15	.008	17
28		8W	50	15	85	75	20	.007	11
29		6W	35	35	65	50	15	.008	6
67121730		4W	150	10	80	75	20	.009	17
31		2W	800	45	80	70	55	.011	17
32		00EW	50	10	80	70	30	.016	16
33		2E	50	10	60	50	25	.013	17
34		4E	50	25	45	45	10	.010	17
35		6E	35	25	80	75	25	.010	17
36		8E	45	20	75	60	25	.010	17
37		10E	85	20	65	80	30	.013	11
38		12E	50	15	60	60	25	.014	17
39		14E	45	10	35	40	20	.020	17
67121740		16E	90	10	70	65	10	.026	17
41	208S	16E	45	5	80	65	20	.020	17
42		14E	50	15	70	75	20	.018	17
43		12E	30	20	80	60	10	.018	17
44		10E	60	-5	60	60	25	.012	17
45		8E	110	20	90	65	25	.009	17
46		6E	220	15	110	65	60	.006	17
47		4E	60	20	50	60	30	.010	17
48		2E	85	10	35	25	25	.011	17
49		00EW	65	20	50	95	30	.010	17
67121750		2W	55	15	70	65	25	.009	17
51		4W	70	35	70	55	25	.013	17
67121752	208S	6W	120	25	120	30	20	.011	11

15.

SAMPLE NO.	CO-ORDINATES POSITION	Cu	Pb	Zn	Ni	Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)	
67121753	208S	8W	50	25	60	40	15	.012	17
54		10W	40	20	35	45	10	.012	17
55		12W	25	30	25	30	20	.013	17
56		14W	25	15	70	50	20	.013	17
57		16W	30	30	320	160	25	.008	17
58		18W	25	20	35	50	25	.011	11
59		20W	35	35	45	55	55	.011	17
67121760		22W	20	10	30	25	5	.013	17
61		24W	35	25	40	40	15	.013	17
62		26W	40	25	75	50	5	.018	17
63		28W	45	20	75	55	20	.013	17
64		30W	50	10	30	25	-5	.015	17
65		32W	35	20	25	35	-5	.013	17
66		34W	30	30	35	40	10	.013	17
67		36W	35	35	30	60	5	.022	17
68		38W	35	20	35	60	20	.014	17
69		40W	70	20	50	55	10	.014	17
67121770		42W	40	20	20	15	-5	.012	17
71		44W	35	25	25	25	-5	.011	17
72		46W	20	20	90	85	10	.012	23
73		48W	60	10	65	45	10	.023	23
74		50W	50	50	12	25	-5	.016	17
75		52W	60	190	70	55	15	.009	9
76		54W	35	15	65	55	5	.010	17
77		56W	75	320	85	50	30	.010	12
78		58W	80	240	60	55	25	.008	11
79		60W	275	170	210	85	20	.010	17
80		62W	40	25	20	50	15	.006	12
81		64W	45	35	18	30	5	.007	11
82		66W	10	25	15	10	10	.010	11
83		68W	55	30	15	50	20	.008	11
84		70W	35	25	15	30	10	.008	11
85		72W	55	30	15	35	10	.010	11
86		74W	-5	-5	20	15	10	.010	17
87		76W	-5	10	12	5	5	.010	10
88		78W	-5	30	15	5	-5	.018	11
89		80W	-5	15	5	-5	-5	.023	11
90		82W	-5	10	5	-5	-5	.014	11
91		84W	-5	20	8	15	5	.014	11
92		86W	10	20	8	15	5	.013	11
93		88W	10	15	6	5	-5	.013	11
67121795	212S	90W	10	30	20	10	-5	.010	11

SAMPLE NO.	CO-ORDINATES POSITION		16.					RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
			Cu	Pb	Zn	Ni	Co		
67121796	212S	88W	-5	25	6	10	5	.016	11
97		86W	5	25	6	10	10	.014	11
98		84W	-5	15	6	-5	5	.015	11
99		82W	-5	20	5	-5	5	.016	11
67121800		80W	-5	20	10	5	5	.014	11
01		78W	5	45	15	-5	5	.014	11
02		76W	10	5	15	50	25	.012	11
03		74W	20	5	15	40	5	.009	17
04		72W	40	30	12	25	25	.008	11
05		70W	15	10	8	5	5	.008	11
06		68W	35	25	12	40	25	.007	5
07		66W	20	20	10	5	10	.010	11
08		64W	75	85	80	75	60	.010	11
09		62W	55	100	25	20	5	.013	11
67121810		60W	130	50	200	55	40	.012	17
11		58W	75	500	660	65	25	.011	11
12		56W	75	2500	4400	100	40	.011	11
13		54W	130	100	110	70	10	.012	11
14		52W	50	160	40	20	-5	.016	17
15		50W	55	100	15	10	-5	.013	11
16		48W	55	110	18	10	-5	.021	17
17		46W	40	30	85	50	5	.012	17
18		44W	35	20	45	55	15	.014	23
19		42W	20	5	30	25	5	.013	17
67121820		40W	25	15	45	50	10	.013	17
21		38W	55	25	70	70	10	.014	17
22		36W	45	25	40	40	5	.020	17
23		34W	70	35	65	75	15	.022	17
24		32W	35	15	30	25	10	.013	17
25		30W	35	15	15	15	-5	.014	17
26		28W	35	15	45	40	10	.013	17
27		26W	55	15	75	50	10	.012	23
28		24W	40	5	100	40	15	.014	23
29		22W	60	20	200	60	25	.014	18
67121830		20W	70	45	30	75	10	.011	11
31		18W	75	35	170	60	5	.012	17
32		16W	25	10	25	35	5	.011	17
33		14W	30	25	60	50	10	.012	12
34		12W	25	20	40	35	10	.012	17
35		10W	50	15	50	110	30	.012	17
36		8W	35	20	65	40	10	.009	11
37		6W	50	50	120	70	20	.012	17
38		4W	50	30	50	40	15	.012	17
67121839	212S	2W	40	15	80	60	30	.012	17

SAMPLE NO.	CO-ORDINATES POSITION		17.					RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
			Cu	Pb	Zn	Ni	Co		
67121840	212S	00EW	45	15	110	60	25	.012	17
41		2E	80	20	85	75	15	.010	17
42		4E	60	45	40	65	65	.007	7
43		6E	130	15	80	65	20	.010	17
44		8E	70	15	70	65	-	.007	17
45		10E	60	10	60	60	15	.010	17
46		12E	40	-5	55	75	25	.010	11
47		14E	40	15	80	55	10	.010	17
48		16E	45	-5	11	90	10	.010	17
67121849	216S	16E	70	5	70	50	10	.010	17
50		14E	60	15	70	60	20	.010	17
51		12E	50	10	70	80	20	.010	11
52		10E	45	10	70	50	15	.010	17
53		8E	35	15	80	70	25	.010	17
54		6E	50	10	80	80	20	.010	17
55		4E	200	50	250	90	45	.012	17
56		2E	25	25	100	80	25	.009	11
57		00EW	60	40	50	50	20	.012	17
58		2W	20	15	150	80	30	.012	17
59		4W	35	5	30	10	5	.011	17
67121860		6W	50	25	50	70	20	.011	17
61		8W	35	45	50	45	20	.015	17
62		10W	40	15	60	45	25	.017	15
63		12W	35	35	55	50	20	.017	10
64		14W	15	45	35	50	15	.013	9
65		16W	35	340	55	50	20	.018	17
66		18W	35	20	20	25	5	.017	14
67		20W	40	45	35	40	5	.016	12
68		22W	55	20	40	60	10	.018	17
69		24W	35	15	35	50	10	.019	17
67121870		26W	55	30	35	40	5	.021	17
71		28W	40	35	35	50	5	.021	17
72		30W	20	30	35	60	50	.021	23
73		32W	20	20	35	65	10	.022	17
74		34W	70	40	45	80	25	.026	17
75		36W	15	45	45	55	5	.031	23
76		38W	35	85	65	95	20	.015	23
77		40W	100	95	180	240	35	.014	23
78		42W	35	35	60	95	40	.016	17
79		44W	20	20	180	170	15	.015	23
67121880		46W	80	170	240	120	100	.016	9
67121881	216S	48W	35	30	18	10	-5	.018	17

SAMPLE NO.	CO-ORDINATES POSITION	18.					Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
		Cu	Pb	Zn	Ni				
67121882	216S	50W	70	30	25	10	-5	.017	17
83		52W	50	55	30	25	5	.018	17
84		54W	100	200	65	70	10	.018	17
85		56W	120	20	130	50	10	.020	23
86		58W	70	80	460	90	20	.011	23
87		60W	30	55	340	50	25	.011	13
88		62W	40	50	250	50	20	.012	11
89		64W	65	95	45	10	-5	.012	17
67121890	216S	66W	65	95	110	55	20	.016	14
91	216S	68W	75	75	40	40	15	.007	11
92		70W	20	50	12	20	10	.007	11
93		72W	-5	5	5	-5	-5	MATTOCK SAMPLE	
94		74W	5	35	5	5	-5	.007	7
95		76W	30	25	15	40	20	.005	5
96		78W	20	25	10	15	10	.006	11
97		80W	10	30	12	10	10	.010	7
98		80W	5	45	8	-5	-5	.011	23
99		82W	-5	-5	8	-5	-5	.011	22
67121900		84W	-5	-5	8	-5	-5	.020	23
01		86W	-5	10	5	-5	-5	.008	6
02		86.5W	-5	10	6	-5	-5	.010	10
03		88W	-5	10	12	5	-5	.011	23
04		90W	-5	-5	5	5	-5	.006	5
05	220S	90W	-5	5	8	5	-5	.014	17
06		88W	-5	10	6	5	-5	.020	17
07		87.5W	-5	5	8	-5	-5	.014	16
08		86W	-5	5	8	-5	-5	.016	7
09		84W	-5	-5	12	20	-5	.011	17
10		82W	-5	10	8	8	10	-	12
11		80W	5	10	8	12	5	.012	17
12		78W	25	30	12	30	15	.009	11
13		76W	30	35	20	30	15	.008	5
14		74W	-5	15	6	15	-5	.005	5
15		72W	60	30	30	20	8	.007	11
16		70W	100	60	40	55	10	.007	11
17		68W	5	45	6	5	-5	.007	11
18		66W	90	80	95	65	20	.015	17
19		64W	-5	10	25	35	12	.010	11
20		62W	70	25	210	55	25	.009	11
21		60W	-5	5	150	55	12	.011	11
22		58W	30	-5	100	35	5	.016	17
23		56W	30	50	6	12	-5	.014	17
67121924	220S	54W	45	25	45	30	5	.018	17

SAMPLE NO.	CO-ORDINATES POSITION		Cu	Pb	Zn	Ni	Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
67121925	220S	52W	50	30	50	50	10	.020	23
26		50W	155	15	65	55	85	.023	29
27		48W	85	25	140	110	15	.020	29
28		46W	310	35	360	180	15	.025	29
29		44W	4100	130	1250	20	10	-	-
30 (Gossan)		44W	120	210	70	30	12	-	-
31		44W	15	220	8	-5	5	.017	29
32		42W	5	75	5	-5	5	.011	29
33 (Gossan)		40W	40	130	18	-5	12	-	-
34		40W	45	20	40	20	15	.016	23
35		38W	25	240	120	110	30	.015	23
36		36W	30	45	35	35	20	.016	23
37		34W	15	15	30	35	15	.014	17
38		32W	15	10	40	40	15	.016	17
39		30W	50	30	50	50	25	.022	23
40		28W	40	15	35	30	12	.016	17
41		26W	70	50	50	60	55	.020	17
42		24W	50	25	45	60	15	.015	23
43		22W	80	170	60	85	50	.016	8
44		20W	220	140	500	680	85	.016	17
45		18W	65	60	100	130	25	.016	17
46		16W	40	25	30	35	8	.012	15
47		14W	45	20	40	60	15	.011	8
48		12W	30	15	45	40	15	.017	17
49		10W	45	15	75	85	25	.013	11
67121950		8W	45	10	75	60	25	.010	17
51		6W	30	10	60	35	15	.011	11
52		4W	35	10	55	40	20	.011	17
53		2W	30	30	30	30	20	.011	17
54		00EW	50	35	90	70	30	.013	17
55		2E	65	10	90	70	20	.016	17
56		4E	150	10	100	65	50	.010	17
57		6E	40	20	70	65	15	.014	17
58		8E	180	25	90	70	50	.007	17
59		10E	40	20	70	70	20	.017	17
67121960		12E	40	15	60	65	20	.015	17
61		14E	50	20	65	65	35	.011	11
62		16E	55	15	70	50	8	.019	17
67121963	224S	16E	120	25	85	70	20	.020	17
64		14E	50	12	70	75	20	.018	17
65		12E	25	25	25	35	5	-	-
66		10E	35	10	60	50	20	.010	19
67		8E	60	15	75	65	20	.010	17
67121968	224S	6E	90	25	85	75	20	.014	17

SAMPLE NO.	CO-ORDINATES POSITION		Cu	Pb	Zn	Ni	Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
67121969	224S	4E	40	15	100	65	20	.017	17
70		2E	85	20	70	65	20	.016	17
71		00EW	50	15	90	80	25	.014	17
72		2W	50	15	55	55	25	.014	17
73		4W	30	12	85	60	20	.014	17
74		6W	35	10	40	35	15	.014	11
75		8W	50	15	45	40	20	.012	17
76		10W	30	8	30	25	15	.019	17
77		12W	45	20	35	35	15	.012	17
78		14W	60	35	30	65	10	.015	17
79		16W	45	85	45	60	12	.017	17
67121980		18W	50	65	75	65	12	.016	17
81		20W	30	45	70	75	10	.014	12
82		22W	35	20	30	35	8	.019	17
83		24W	40	25	30	40	10	.018	17
84		26W	30	15	30	25	5	.019	17
85		28W	15	20	30	35	8	.017	17
86		30W	35	20	45	70	10	.015	23
87		32W	35	130	45	60	20	.016	17
88		34W	30	15	50	60	15	.016	17
89		36W	30	15	50	90	15	.018	17
67121990		38W	25	90	130	90	15	.020	23
91		40W	35	35	95	85	15	.019	23
92		42W	65	20	110	80	15	.014	23
93		44W	60	80	25	20	10	.018	23
94		46W	45	90	10	15	10	.013	23
95		48W	100	20	110	80	15	.015	23
96		50W	60	40	75	50	5	.012	17
97		52W	30	55	250	70	25	.016	17
98		54W	30	45	1280	70	18	.012	17
99		56W	50	100	180	40	18	.011	17
67122000		58W	40	15	75	45	18	.012	17
01		60W	35	25	320	90	40	.012	11
02		62W	45	15	240	45	40	.012	17
03		64W	35	90	240	40	15	.013	17
04		66W	50	45	100	60	20	.011	17
05		68W	35	35	25	40	20	.005	5
06		70W	15	15	15	10	15	-	-
07		72W	60	30	20	60	25	.006	5
08		74W	30	20	15	35	18	.005	5
09		76W	10	15	10	15	15	.004	5
67122010	224S	78W	15	25	12	15	15	.010	11

SAMPLE NO.	CO-ORDINATES POSITION		Cu	Pb	Zn	Ni	Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
67122011	224S	80W	18	20	12	25	20	.005	5
12		82W	10	15	8	10	8	.011	11
13		84W	8	10	8	10	8	.006	5
14		86W	5	15	15	100	15	.007	5
15		87W	-5	10	6	-5	-5	.013	23
16		88W	-5	5	8	5	5	.017	17
17		90W	-5	10	10	5	5	.019	17
18	228S	90W	8	5	10	-5	-5	.012	17
19		88W	15	5	5	-5	-5	-	-
67122020		86W	5	10	5	-5	-5	.008	11
21		84W	8	10	5	5	-5	.007	5
22		82W	20	20	10	20	8	.007	5
23		80W	10	25	10	15	8	.007	11
24		78W	20	20	10	20	15	.006	5
25		76W	20	25	10	20	18	.007	5
26		74W	35	25	15	50	20	.007	5
27		72W	30	35	15	40	18	.007	5
28		70W	40	35	15	50	25	.007	5
29		68W	80	60	40	90	40	.008	11
67122030		66W	25	50	25	30	12	.007	12
31		64W	8	10	25	35	18	.007	11
32		62W	8	20	200	130	90	.007	11
33		60W	45	40	340	70	30	.008	11
34		58W	40	650	1480	75	55	.008	11
35		56W	30	40	240	35	15	.008	11
36		54W	20	15	210	30	15	.018	17
37		52W	50	160	320	80	30	.019	17
38		50W	40	130	130	60	15	.013	17
39		48W	30	25	80	45	10	.013	17
67122040		46W	45	60	30	20	10	.013	17
41		44W	270	75	140	75	15	.013	17
42		42W	40	35	50	70	10	.013	17
43		42W	45	40	35	20	12	-	-
44		40W	30	75	40	35	15	.033	17
45		38W	55	200	150	30	150	.012	23
46		36W	45	25	40	15	50	.012	23
47		34W	30	35	40	10	55	.014	13
48		32W	55	35	65	10	80	.012	17
49		30W	50	25	55	10	70	.014	23
67122050		28W	65	45	65	25	140	.012	17
51		26W	35	20	40	15	50	.013	17
52		24W	25	20	60	15	55	.016	17
67122053	228S	22W	30	40	65	15	55	.011	17

SAMPLE NO.	CO-ORDINATES POSITION		Cu	Pb	Zn	Ni	Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
67122054	228S	20W	40	85	45	15	50	.012	17
55		18W	50	120	135	15	70	.015	17
56		16W	15	20	45	12	55	.011	11
57	Gossan	16W	70	150	300	30	410	-	-
58		14W	25	35	40	15	40	.009	11
59		12W	70	35	55	25	65	.012	12
60		10W	65	20	60	160	150	.015	17
61		8W	60	10	80	35	90	.020	17
62		6W	70	50	400	35	240	.026	7
63		4W	50	10	40	5	50	.016	17
64		2W	35	20	80	10	60	.015	17
65		00EW	50	20	280	50	160	.012	17
66		2E	75	120	55	30	90	.010	8
67		4W	55	20	60	15	70	.012	17
68		6E	55	20	65	15	70	.013	17
69		8E	180	15	60	35	65	.008	11
70		10E	65	20	65	25	80	.010	17
71		12E	60	10	55	15	50	.013	17
72		14E	45	20	20	40	35	.013	17
73		16E	55	35	170	25	65	.016	17
74	232S	16E	105	25	100	30	80	.018	17
75		14E	70	40	85	25	110	.019	17
76		12E	60	50	50	30	85	.016	17
77		10E	135	45	75	80	90	.012	13
78		8E	160	20	75	65	65	.014	17
79		6E	90	35	75	30	90	.014	17
67122080		4E	75	50	55	20	80	.015	17
81		2E	50	20	100	20	75	.011	17
82		00EW	80	140	65	50	75	.013	17
83		2W	125	15	160	50	100	.018	17
84		4W	55	25	85	40	90	.019	17
85		6W	65	720	750	30	80	.019	17
86		8W	180	20	110	30	100	.017	17
87		10W	45	20	35	15	55	.009	11
88		12W	125	50	80	40	70	.009	11
89		14W	35	20	20	15	30	.011	11
67122090		16W	75	40	30	40	70	.008	9
91	GOSSAN	16W	250	50	35	50	150	-	-
92	"	16W	115	35	60	60	160	-	-
93	"	16W	390	65	85	110	560	-	-
94		18W	35	25	85	20	65	.011	11
95		20W	45	200	60	50	55	.011	11
67122096	232S	22W	35	25	60	25	35	.011	11

SAMPLE NO.	CO-ORDINATES POSITION		Cu	Pb	Zn	Ni	Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
67122097	232S	24W	30	35	50	25	55	.011	12
98		26W	60	35	85	30	60	.013	13
99		28W	75	35	55	25	110	.011	11
67122100		30W	25	35	50	10	50	.011	17
01		32W	40	25	50	15	90	.010	11
02		34W	50	20	45	15	60	.010	17
03		36W	20	40	30	15	75	.013	17
04		38W	70	200	90	10	65	.015	16
05	GOSSAN	38W	35	200	10	5	5	-	-
06		40W	30	65	300	25	110	.015	22
07	GOSSAN	40W	2000	510	160	100	70	-	-
08	GOSSAN	40W	20	20	20	5	5	-	-
09	GOSSAN	40W	65	350	900	90	150	-	-
67122110	GOSSAN	40W	195	240	30	10	20	-	-
11	GOSSAN	40W	20	120	45	5	12	-	-
12		42W	150	230	190	25	100	.011	5
13		44W	30	130	15	10	25	.013	17
14		46W	100	130	100	10	70	.018	12
15		48W	75	95	250	20	100	.013	23
16		50W	140	70	350	25	160	.015	17
17		52W	150	2400	1200	35	240	.014	23
18		54W	50	20	150	10	60	.010	17
19		56W	45	35	215	25	50	.008	11
67122120		58W	155	270	135	190	150	.011	11
21		60W	85	35	130	50	90	.011	11
22		62W	60	240	140	70	100	.007	5
23		64W	105	350	400	85	140	.009	11
24		66W	750	20	60	145	165	.012	11
25		68W	810	350	130	145	160	.010	17
26		70W	160	680	180	25	65	.008	11
27		72W	10	15	50	35	75	.008	11
28		74W	40	20	15	20	50	-	5
29		76W	30	20	10	20	35	.005	5
67122130		78W	20	15	10	15	20	.005	5
31		80W	25	10	5	15	15	.008	11
		82W	15	5	10	15	20	.005	5
		84W	25	5	10	15	15	.005	5
34		86W	20	5	5	10	12	.008	11
35		88W	40	20	10	10	20	.009	6
36		90W	110	50	20	10	50	.007	5
37	236S	16E	50	35	30	8	60	.017	17
38		14E	70	30	70	15	80	.017	17
39		12E	50	55	55	8	50	.014	17
40	236S	10E	50	30	55	30	50	.015	17

SAMPLE NO.	CO-ORDINATES POSITION		Cu	Pb	Zn	Ni	Co	RADIOACTIVITY (mR/hr)	SAMPLE DEPTH (Feet)
67122141	236S	8E	45	20	110	25	60	.012	23
42		6E	200	5	110	70	70	.012	23
43		4E	55	1-5	45	15	50	.012	17
44		2E	40	10	75	35	55	.012	17
45		00EW	95	60	75	20	85	.014	17
46		2W	70	35	60	15	85	.010	17
47		4W	25	30	50	20	70	.013	11
48		6W	130	30	75	35	175	.014	17
49		8W	55	15	45	15	60	.012	17
67122150		10W	85	30	45	15	70	.011	11
51		12W	50	35	30	19	60	.009	7
52		14W	100	45	45	20	60	.012	11
53		16W	25	25	30	15	15	.012	12
67122154		18W	140	70	85	40	110	.010	11
55		20W	60	60	70	20	80	.012	9
56		22W	35	95	90	15	110	.011	11
57		24W	110	45	70	8	80	.011	11
58		26W	30	20	55	8	50	.011	17
59		28W	60	25	60	15	100	.012	14
67122160		30W	35	45	35	8	65	.012	12
61		32W	50	90	55	15	80	.011	10
62		34W	25	20	30	8	50	.013	11
63		36W	30	35	50	15	60	.012	23
64		38W	20	1600	400	10	130	.021	17
65		40W	50	550	220	35	85	.015	23
66		42W	80	120	40	160	40	.018	17
67		44W	90	40	180	35	75	.022	23
68		46W	65	45	25	8	20	.021	23
69		48W	55	110	20	8	20	.014	23
67122170		50W	65	100	220	20	60	.011	11
71		52W	50	45	85	15	40	.012	17
72		54W	25	35	210	8	40	.009	17
73		56W	60	10	60	25	50	.009	17
74		58W	20	5	65	25	30	.010	11
75		60W	120	570	15	25	10	.014	17
76	GOSSAN	60W	25	70	20	-5	10	-	-
77		62W	15	30	10	-5	10	.010	11
78		64W	30	90	15	.5	15	.008	5
79		66W	310	89	110	65	100	.015	17
67122180		68W	340	370	220	95	85	.010	6
81		70W	10	15	50	25	85	.007	11
82		72W	110	90	55	-5	30	.010	17
67122183	236S	74W	40	20	10	5	30	.008	11

SAMPLE NO.	CO-ORDINATES POSITION		Cu	Pb	Zn	Ni	Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
67122184	236S	76W	35	30	10	5	25	.007	11
85		78W	20	10	10	8	30	.010	11
86		80W	20	10	10	5	15	.011	11
87		82W	20	5	5	-5	15	.010	11
88		84W	10	5	5	5	15	.008	11
89		86W	25	10	5	8	15	.009	11
67122190		88W	20	25	10	8	15	.010	11
91		90W	55	40	30	20	60	.008	5
92	240S	90W	20	15	8	15	15	.009	11
93		88W	25	25	25	20	30	.008	11
94		86W	25	15	12	15	30	.007	5
95		84W	20	10	8	8	15	.008	11
96		82W	20	15	8	8	15	.009	11
97		80W	15	5	6	5	10	.009	11
98		78W	15	15	8	15	10	.012	11
99		76W	15	10	8	5	10	.012	11
67122200		74W	35	15	25	8	12	.009	17
01		72W	45	30	18	20	50	.010	11
02		70W	50	55	30	25	60	.010	11
03		68W	120	95	35	30	80	.010	11
04		66W	65	160	40	20	40	.010	11
05		64W	75	160	25	10	30	.009	17
06		62W	5	270	6	-5	-5	.010	11
07		60W	95	1500	1320	150	210	.010	11
08		58W	30	15	120	50	45	.010	17
09		56W	85	25	65	25	60	.009	11
67122210		54W	4	20	50	25	55	.009	11
11		52W	55	300	120	20	40	.010	11
12		50W	25	10	30	25	30	.010	11
13		48W	40	360	800	18	95	.012	17
14		46W	20	45	20	8	10	.018	23
15		45W	50	45	100	10	70	.017	23
16		44W	75	140	120	8	50	.012	23
17		43W	75	45	60	8	40	.018	23
18		42W	40	15	40	-5	30	.020	23
19		41W	50	30	100	5	60	.020	23
7122220		40W	30	65	20	-5	12	.016	23
21		39W	30	270	20	-5	12	.013	23
22		38W	50	680	18	10	15	.019	8
23		36W	25	25	40	8	60	.015	14
24		34W	35	20	25	-5	40	.013	15
67122225	240S	32W	40	40	35	8	60	.013	15

SAMPLE NO.	CO-ORDINATES POSITION		Cu	Pb	Zn	Ni	Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
67122226	240S	30W	35	30	30	5	40	.016	12
27		28W	40	15	35	10	80	.012	17
28		26W	55	270	70	5	80	.013	11
29		24W	65	60	100	15	120	.012	11
67122230		22W	25	60	65	18	95	.010	11
31		20W	35	60	40	10	50	.014	17
32		18W	55	50	60	5	45	.013	11
33		16W	35	25	40	10	70	.009	9
34		14W	60	25	30	10	70	.012	11
35		12W	35	25	30	10	35	.013	11
36		10W	35	15	35	8	40	.014	15
37		8W	55	35	50	25	80	.011	10
38		6W	60	20	50	10	70	.012	12
39		34W	35	25	25	5	70	.011	8
67122240		2W	80	60	190	20	110	.013	17
41		00EW	65	10	70	10	60	.012	17
42		2E	200	5	85	100	70	.013	17
43		4E	180	30	75	50	60	.014	16
44		6E	140	25	65	60	60	.010	17
45		8E	100	20	65	25	40	.015	17
46		10E	55	15	50	10	50	.014	17
47		12E	55	50	65	20	70	.015	17
48		14E	70	30	80	10	65	.022	17
49		16E	60	150	40	-5	40	.022	23
67122250	244S	16E	80	180	100	15	90	.020	29
51		14E	120	130	140	60	100	.022	23
52		12E	60	230	40	10	50	.019	17
53		10E	60	120	75	18	80	.016	17
54		8E	55	130	40	15	60	.017	17
55		6E	190	5	65	35	45	.013	17
56		4E	170	10	60	35	55	.014	17
57		2E	60	30	55	20	70	.018	17
58		00EW	50	20	60	8	55	.013	17
59		2W	65	100	50	30	70	.012	11
67122260		4W	50	30	40	15	85	.012	17
61		6W	40	35	35	25	60	.011	17
62		8W	15	20	30	15	40	.011	8
63		10W	20	25	1-0	15	35	.015	11
64		12W	140	40	80	65	50	.012	17
65		14W	45	20	50	20	60	.010	11
66		16W	30	25	25	15	55	.009	7
67		18W	20	25	20	25	35	.012	17
68		20W	80	45	130	70	225	.012	11
69		22W	55	110	100	10	100	.012	12
67122270	244S	24W	20	30	50	15	50	.010	13

SAMPLE NO.	CO-ORDINATES POSITION		Cu	Pb	Zn	Ni	Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
67122271	244S	26W	25	30	50	10	80	.016	17
72		28W	25	75	35	15	65	.017	17
73		30W	45	110	50	5	55	.023	17
74		32W	25	30	55	10	50	.015	17
75		34W	20	30	25	5	1-0	.017	15
76		36W	20	30	40	25	55	.020	23
77		38W	45	120	170	15	75	.018	23
78		40W	45	115	170	35	125	.017	29
79		42W	30	40	35	5	30	.025	23
67122280		44W	45	55	25	-5	20	.016	23
81		46W	25	20	12	-5	5	.013	23
82		48W	40	10	80	15	60	.016	17
83		50W	50	5	45	25	20	.010	23
84		52W	15	10	10	5	10	.008	17
85		54W	15	25	15	5	15	.008	11
86		56W	15	5	120	30	65	.012	17
87		58W	65	55	400	25	70	.012	11
88		60W	10	5	120	30	50	.009	17
89		62W	40	120	60	25	40	.012	17
67122290		64W	30	60	15	5	20	.012	17
91		66W	20	20	8	5	15	.011	11
92		68W	20	25	6	10	20	.007	5
93		70W	20	35	10	5	20	.012	11
94		72W	30	35	12	10	25	.012	11
95		74W	30	30	10	15	30	.008	5
96		76W	20	15	8	10	15	.010	11
97		78W	20	25	6	10	10	.009	5
98		80W	25	35	10	10	20	.009	11
99		82W	30	35	10	15	25	.008	5
67122300		84W	35	35	10	25	40	.006	5
01		86W	20	25	12	25	110	.006	5
02		88W	10	15	8	20	30	.004	5
03		90W	15	20	8	15	20	.006	5
04	248S	90W	10	5	6	5	10	.004	5
05		88W	5	15	8	5	5	.007	5
06		86W	20	15	6	10	15	.007	5
07		84W	35	35	10	10	25	.008	5
08		82W	25	35	12	15	25	.010	5
09		80W	20	25	10	15	30	.008	5
67122310		78W	30	40	20	20	50	.008	5
11		76W	25	20	8	15	35	.008	5
12		74W	25	30	10	25	35	.009	5
13		72W	25	30	12	10	20	.012	11
67122314	248S	70W	25	35	12	15	30	.006	5

SAMPLE NO.	CO-ORDINATES POSITION	Cu	Pb	Zn	Ni	Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
67122315	248S 68W	30	25	15	15	35	.007	5
16	66W	30	30	10	5	30	.012	11
17	64W	35	35	15	25	50	.008	5
18	62W	45	50	15	15	30	.014	11
19	60W	20	40	6	5	15	.010	11
67122320	58W	25	35	25	20	30	.014	11
21	56W	25	30	18	5	20	.011	17
22	54W	15	80	12	10	20	.007	11
23	52W	10	15	10	-5	10	.009	11
24	50W	45	60	180	20	35	.012	23
25	48W	40	70	40	15	40	.012	17
26	46W	85	25	75	15	40	.014	23
27	44W	25	35	18	-5	15	.018	17
28	42W	45	55	20	-5	20	.017	23
29	40W	35	790	200	30	100	.021	23
67122330	38W	10	75	50	10	70	.016	23
31	37W	20	10	50	5	50	.017	17
32	36W	40	130	170	20	165	.026	17
33	35W	30	5	55	5	35	.028	17
34	34W	25	125	350	15	80	.026	17
35	33W	45	370	460	20	75	.019	17
36	32W	45	40	35	-5	50	.020	17
37	30W	25	30	45	5	55	.016	17
38	28W	15	5	18	5	30	.016	17
39	26W	30	20	45	15	80	.015	17
67122340	24W	30	5	55	5	75	.013	17
41	22W	25	35	60	10	95	.010	12
42	20W	170	45	270	125	620	.011	17
43	18W	30	15	85	460	165	.010	12
44	16W	20	10	20	10	20	.009	11
45	14W	20	10	50	5	30	.015	11
46	12W	40	10	40	5	30	.011	11
47	10W	25	10	40	5	50	.012	11
48	8W	85	40	65	80	140	.014	11
49	6W	45	30	35	15	60	.011	17
67122350	4W	50	45	30	15	50	.010	17
51	2W	70	40	140	25	30	.012	17
52	00EW	55	10	75	30	60	.016	17
53	2E	30	12	80	15	50	.017	17
54	4E	40	10	65	30	55	.017	17
55	6E	55	130	100	25	70	.019	17
56	8E	40	55	30	15	50	.012	17
57	10E	40	100	90	60	70	.015	17
58	12E	50	40	60	20	55	.015	17
67122359	14E	50	55	25	50	50	.019	18

SAMPLE NO.	CO-ORDINATES POSITION		29.					RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
			Cu	Pb	Zn	Ni	Co		
67122360	248S	16E	55	10	45	5	55	.016	23
61	252S	16E	55	30	35	5	55	.018	17
62		14E	40	85	35	5	50	.026	23
63		12E	65	15	150	10	60	.017	23
64		10E	30	25	20	5	40	.019	11
65		8E	45	15	130	15	60	.016	17
66		6E	40	40	95	20	65	.014	17
67		4E	70	40	45	-5	25	.017	17
68		2E	105	25	110	25	50	.019	17
69		00EW	55	35	100	10	65	.012	17
67122370		2W	60	55	65	15	65	.013	17
71		4W	30	25	20	-5	20	.012	17
72		6W	30	30	35	5	40	.013	17
73		8W	40	30	45	10	80	.012	11
74		10W	30	20	55	10	90	.014	7
75		12W	25	30	35	5	50	.012	11
76		14W	25	20	40	5	45	.010	11
77		16W	150	30	180	130	200	.013	17
78		18W	45	15	55	5	50	.011	11
79		20W	45	30	60	10	60	.011	9
67122380		22W	25	30	30	5	65	.011	8
81		24W	25	35	50	5	60	.013	17
82		26E	30	20	20	5	60	.022	17
83		28W	25	20	50	5	85	.022	17
84		30W	25	20	18	-5	25	.025	17
85		32W	25	15	35	5	50	.020	23
86		33W	30	20	25	5	40	.023	23
87		34W	55	25	50	5	55	.023	20
88		36W	25	12	20	-5	25	.015	17
89		38W	20	8	50	5	60	.017	17
67122390		40W	100	220	70	5	35	.029	17
91		42W	30	60	50	10	30	.019	12
92		44W	40	60	75	25	50	.013	12
93		46W	30	120	40	20	40	.009	11
94		48W	25	60	25	10	40	.013	12
95		50W	30	70	50	25	40	.009	14
96		52W	20	45	25	5	25	.008	11
97		54W	20	30	20	10	40	.009	11
98		56W	225	110	260	50	85	.009	11
99		58W	10	10	8	-5	10	.007	11
67122400		60W	40	55	40	30	65	.008	11
01		62W	30	45	25	40	80	.007	11
02		64W	25	35	20	45	70	.008	11
67122403	252S	66W	20	25	30	25	60	.007	11

SAMPLE NO.	CO-ORDINATES POSITION	Cu	Pb	Zn	Ni	Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)	
67122404	252S	68W	20	30	210	120	150	.009	11
05		70W	20	25	15	15	30	.006	11
06		72W	20	25	10	12	20	.006	11
07		74W	20	30	10	15	25	.006	11
08		76W	15	25	15	20	50	.006	11
09		78W	55	15	70	200	280	.006	11
67122410		80W	10	15	35	20	60	.007	9
11		82W	10	30	15	25	50	.004	3
12		84W	10	25	15	15	35	.006	11
13		86W	10	35	15	25	40	.004	5
14		88W	10	25	8	15	25	.006	6
15		90W	45	45	25	40	80	.008	5
67122 4 16A	256S	90W	160	35	280	110	175	.022	11
16B		90W	60	5	210	200	230	M / S A M P L E	
17		88W	30	25	30	60	20	.011	17
18		86W	70	20	110	100	135	.011	11
19		84W	25	15	15	8	20	.008	11
671224 2 0		82W	20	20	5	-5	10	.005	11
21		80W	30	40	35	40	20	.006	5
22		78W	30	35	50	50	85	.005	5
23		76W	25	25	8	8	20	.004	6
24		74W	30	10	15	15	10	.004	5
25		72W	40	30	20	20	35	.007	5
26		70W	25	40	70	50	75	.006	5
27		68W	20	18	40	20	50	.005	5
28		66W	20	25	35	60	65	.007	5
29		64W	50	25	1300	260	420	.010	11
67122430		62W	25	30	110	110	135	.005	5
31		60W	35	20	270	150	165	.007	5
32		58W	25	25	20	20	40	.006	5
33		56W	10	15	20	20	35	.006	5
34		54W	20	25	35	35	80	.006	5
35		52W	35	50	45	55	120	.008	5
36		50W	40	10	25	40	85	.015	17
37		48W	65	25	55	35	50	.010	17
38		46W	50	40	400	65	140	.013	23
39		44W	25	45	140	12	55	.017	23
67122440		42W	40	30	110	20	65	.018	23
41		41W	65	90	210	50	75	.016	23
42		40W	50	1900	200	35	40	.031	19
43		39W	55	220	130	18	70	.040	23
44		38W	25	40	100	20	60	.019	23
45		37W	35	35	50	12	60	.023	17
67122446	256S	36W	30	20	30	8	20	.018	17

SAMPLE NO.	CO-ORDINATES POSITION		Cu	Pb	Zn	Ni	Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
67122447	256S	34W	30	40	45	12	55	.014	17
48		32W	45	55	35	20	55	.015	17
49		30W	25	65	20	18	35	.015	17
67122450		28W	60	30	30	30	70	.020	17
51		26W	30	30	75	18	95	.026	17
52		24W	45	30	45	15	80	.019	17
53		22W	55	80	60	12	40	.015	17
54		20W	110	120	300	90	235	.014	17
55		18W	45	30	70	20	80	.015	17
56		16W	25	20	25	20	60	.013	7
57		14W	20	25	30	20	65	.009	8
58		12W	125	30	30	25	75	.008	9
59		10W	35	65	30	12	25	.020	17
67122460		8W	50	40	600	45	100	.019	17
61		6W	55	40	85	25	75	.012	17
62		4W	55	20	55	18	60	.013	17
63		2W	55	25	60	30	60	.016	17
64		00EW	75	40	100	45	100	.014	17
65		2E	75	20	70	25	60	.022	17
66		4E	60	50	100	25	60	.022	23
67		6E	45	25	40	15	30	.025	23
68		8E	75	55	130	25	70	.023	23
69		10E	30	30	40	15	20	.015	23
67122470		12E	100	40	260	40	180	.023	23
71		14E	45	25	70	25	90	.015	23
72		16E	30	20	75	18	75	.012	23
67122473	260S	16E	40	30	45	20	55	.014	23
74		14E	140	55	25	25	65	.013	17
75		12E	35	25	35	30	65	.015	17
76		10E	65	50	25	25	75	.019	17
77		8E	105	30	55	30	65	.014	17
78		6E	60	35	130	20	65	.017	17
79		4E	75	60	100	20	60	.017	17
67122480		2E	75	30	120	35	80	.013	17
81		00EW	75	590	220	40	90	.012	17
82		2W	75	30	100	20	85	.016	17
83		4W	70	55	110	50	90	.011	17
84		6W	55	210	90	25	60	.011	17
85		8W	120	400	220	50	85	.018	17
86		10W	55	55	170	25	80	.020	17
87		12W	35	25	30	30	80	.013	9
88		14W	30	15	50	15	55	.014	11
89		16W	20	15	30	18	55	.013	12
67122490	260S	18W	45	15	35	18	60	.015	17

SAMPLE NO.	CO-ORDINATES POSITION		Cu	Pb	Zn	Co	Ni	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
67122491	260S	20W	45	30	35	20	70	.015	17
92		22W	190	25	50	30	105	.019	17
93		24W	15	75	70	10	55	.022	17
94		26W	35	85	30	40	50	.011	17
95		28W	45	25	30	15	75	.014	17
96		30W	40	15	35	15	65	.014	17
97		32W	50	55	45	15	55	.016	17
98		34W	35	30	110	40	125	.020	17
99		36W	70	30	80	25	80	.024	23
67122500		38W	40	100	280	25	135	.018	23
01		40W	40	25	130	70	85	.019	23
02		42W	25	15	50	20	40	.022	23
03		44W	75	40	240	40	80	.015	23
04		46W	10	20	240	35	50	.011	17
05		48W	25	15	130	40	70	.009	17
06		50W	15	12	80	12	35	.012	17
07		52W	15	35	8	-5	10	.010	17
08		54W	45	35	250	80	120	.008	17
09		56W	20	45	20	30	55	.008	11
67122510		58W	10	5	10	12	20	.005	11
11		60W	20	110	400	160	170	.007	11
12		62W	10	10	30	8	25	.006	11
13		64W	30	10	35	40	70	M / S A M P L E	
14		66W	25	-5	30	20	50	"	"
15		68W	10	5	35	15	25	"	"
16		70W	5	-5	-5	-5	5	"	"
17		72W	5	-5	-5	-5	5	"	"
18		74W	5	-5	-5	-5	5	.004	11
19		76W	5	-5	-5	-5	10	.007	11
67122520		78W	10	20	-5	-5	15	.007	11
21		80W	20	12	5	8	20	M / S A M P L E	
22		82W	20	15	5	15	25	"	"
23		84W	50	15	30	60	110	"	"
24		86W	45	20	25	40	90	"	"
25		88W	45	20	35	60	110	"	"
26		90W	80	25	80	125	210	"	"
67122527	264S	90W	10	15	5	10	5	"	"
28		88W	20	25	5	10	5	"	"
29		86W	30	100	25	10	20	"	"
67122530		84W	20	-5	5	10	5	"	"
31		82W	20	10	10	10	10	"	"
32		80W	5	10	-5	-5	5	.009	11
33		78W	10	10	5	-5	5	.006	11
67122534	264S	76W	5	10	-5	-5	5	M / S A M P L E	

SAMPLE NO.	CO-ORDINATES POSITION		Cu	Pb	Zn	Co	Ni	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
67122535	264S	74W	45	35	30	35	50	M / S A M P L E	
36		72W	45	45	30	35	50	.008	11
37		70W	75	45	30	30	40	.006	11
38		68W	5	15	5	15	5	.005	11
39		66W	15	5	5	8	10	.006	11
67122540		64W	20	10	10	12	25	.006	5
41		62W	35	5	160	100	85	.006	5
42		60W	15	25	110	110	140	.006	5
43		58W	20	15	65	50	100	.006	5
44		56W	20	40	280	200	175	.010	11
45		54W	30	150	25	-5	5	.010	11
46		52W	25	10	30	10	10	.010	17
47		50W	10	-5	35	25	50	.010	17
48		48W	30	-5	45	30	35	.009	17
49		46W	55	5	45	30	50	.010	17
67122550		44W	45	10	100	8	30	.010	17
51		42W	35	10	230	40	150	.012	17
52		40W	30	230	500	12	25	.014	17
53		38W	30	45	40	15	50	.026	17
54		36W	30	15	60	15	65	.021	23
55		34W	25	5	65	10	65	.042	23
56		32W	20	10	20	20	40	.033	23
57		30W	30	10	25	15	50	.025	23
58		28W	50	10	25	12	35	.023	23
59		26W	30	15	30	40	60	.018	23
67122560		24W	35	20	40	15	75	.021	23
61		22W	20	10	25	12	50	.032	23
62		20W	35	10	45	30	90	.034	23
63		18W	45	10	60	25	80	.015	23
64		16W	55	15	70	40	100	.012	23
65		14W	35	15	45	20	75	.014	17
66		12W	45	35	25	15	50	.014	17
67		10W	35	25	30	15	80	.010	17
68		8W	30	60	45	15	90	.008	11
69		6W	35	45	35	25	65	.009	17
67122570		4W	55	120	70	30	75	.012	17
71		2W	75	70	90	50	90	.014	17
72		00EW	45	45	65	25	90	.020	17
73		2E	160	70	500	210	620	.023	17
74		4E	55	45	150	20	85	.015	17
75		6E	65	25	130	30	170	.014	17
76		8E	50	20	110	20	100	.011	17
77		10E	35	20	120	50	110	.015	17
67122578	264S	12E	25	25	45	20	50	.012	17

SAMPLE NO.	CO-ORDINATES POSITION		Cu	Pb	Zn	Co	Ni	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
67122579	264S	14E	20	5	35	15	40	.011	17
67122580		16E	45	10	30	10	60	.011	11
81	268S	16E	40	10	15	15	60	.011	11
82		14E	35	10	30	15	70	.010	14
83		12E	30	15	30	12	55	.014	11
84		10E	110	10	15	40	95	.012	17
85		8E	80	10	60	55	180	.018	17
86		6E	30	10	100	15	80	.024	17
87		4E	60	25	150	15	90	.020	17
88		2E	60	15	130	70	145	.019	17
89		00EW	85	35	140	40	105	.013	17
67122590		2W	70	15	65	30	95	.014	11
91		4W	60	100	50	70	90	.011	17
92		6W	60	60	40	35	70	.010	17
93		8W	35	20	25	25	55	.012	17
94		10W	40	25	15	18	55	.012	17
95		12W	30	20	25	15	45	.011	17
96		14W	45	15	50	15	90	.024	17
97		16W	20	10	15	12	15	.029	23
98		18W	25	10	20	12	30	.029	23
99		20W	55	70	70	60	75	.020	23
67122600		22W	20	15	10	10	15	.019	23
02		26W	45	110	25	18	40	.021	23
03		28W	20	10	15	8	30	.027	23
04		30W	20	10	25	12	40	.025	23
05		32W	30	10	20	-5	50	.011	23
06		34W	20	10	20	8	25	.017	23
07		36W	20	15	80	8	30	.016	23
08		38W	20	10	15	-5	15	.015	23
09		40W	35	40	100	15	50	.015	23
67122628	268S	42W	50	110	200	110	30	.012	23
29		44W	25	60	150	25	20	.014	23
67122630		46W	60	25	80	60	25	.011	23
31		48W	55	20	70	45	40	.008	17
32		50W	110	5	25	35	20	.009	17
33		52W	45	355	20	5	-5	.011	17
34		54W	70	20	120	220	200	.011	17
35		56W	30	5	50	95	60	.007	17
36		58W	10	40	10	-5	-5	.007	17
37		60W	10	25	25	20	10	.009	11
38		62W	20	10	50	30	5	.005	5
39		64W	10	10	10	5	-5	.005	5
67122640	268S	66W	15	25	10	15	-5	.006	5

SAMPLE NO.	CO-ORDINATES POSITION		Cu	Pb	Zn	Ni	Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
67122641	268S	68W	15	20	8	15	-5	.005	5
42		70W	20	35	8	15	5	.006	5
43		72W	25	30	20	15	10	.007	5
44		74W	15	110	40	15	10	.005	5
45		76W	75	275	60	10	8	.006	5
46		78W	5	20	5	-5	-5	M / S A M P L E	
47		80W	5	5	5	-5	-5	"	"
48		82W	5	15	5	-5	-5	"	"
49		84W	10	25	5	-5	-5	"	"
67122650		86W	20	25	8	5	-5	"	"
51		88W	10	20	8	-5	-5	"	"
52		90W	12	35	10	5	-5	"	"
53	272S	90W	10	10	5	5	-5	"	"
54		88W	25	60	25	15	-5	"	"
55		86W	5	15	5	-5	-5	"	"
56		84W	10	20	5	-5	-5	"	"
57		82W	5	5	5	-5	-5	"	"
58		80W	10	20	5	-5	-5	"	"
59		78W	55	100	50	15	5	"	"
67122660		76W	30	95	25	15	-5	.007	5
61		74W	12	30	8	5	-5	.007	5
62		72W	15	5	5	5	-5	.007	5
63		70W	30	10	10	10	-5	.008	5
64		68W	30	5	10	15	5	.011	11
65		66W	25	25	10	15	-5	.010	11
66		64W	20	20	10	10	-5	.010	11
67		62W	25	35	10	20	15	.010	11
68		60W	30	40	15	30	5	.012	11
69		58W	70	40	145	55	70	.016	17
67122670		56W	180	105	170	95	40	.010	11
71		54W	25	5	40	25	20	.007	17
72		52W	60	5	70	60	15	.010	17
73		50W	35	10	55	45	25	.010	17
74		48W	85	60	95	75	25	.010	17
75		46W	70	10	60	60	25	.013	17
76		44W	50	30	110	55	10	.014	17
77		42W	90	90	310	200	40	.017	23
78		40W	65	35	50	60	15	.022	23
79		38W	55	35	90	60	15	.013	23
67122680		36W	30	20	25	25	-5	.016	23
81		34W	35	15	115	55	-5	.015	23
67122682	272S	32W	35	30	60	65	5	.014	23

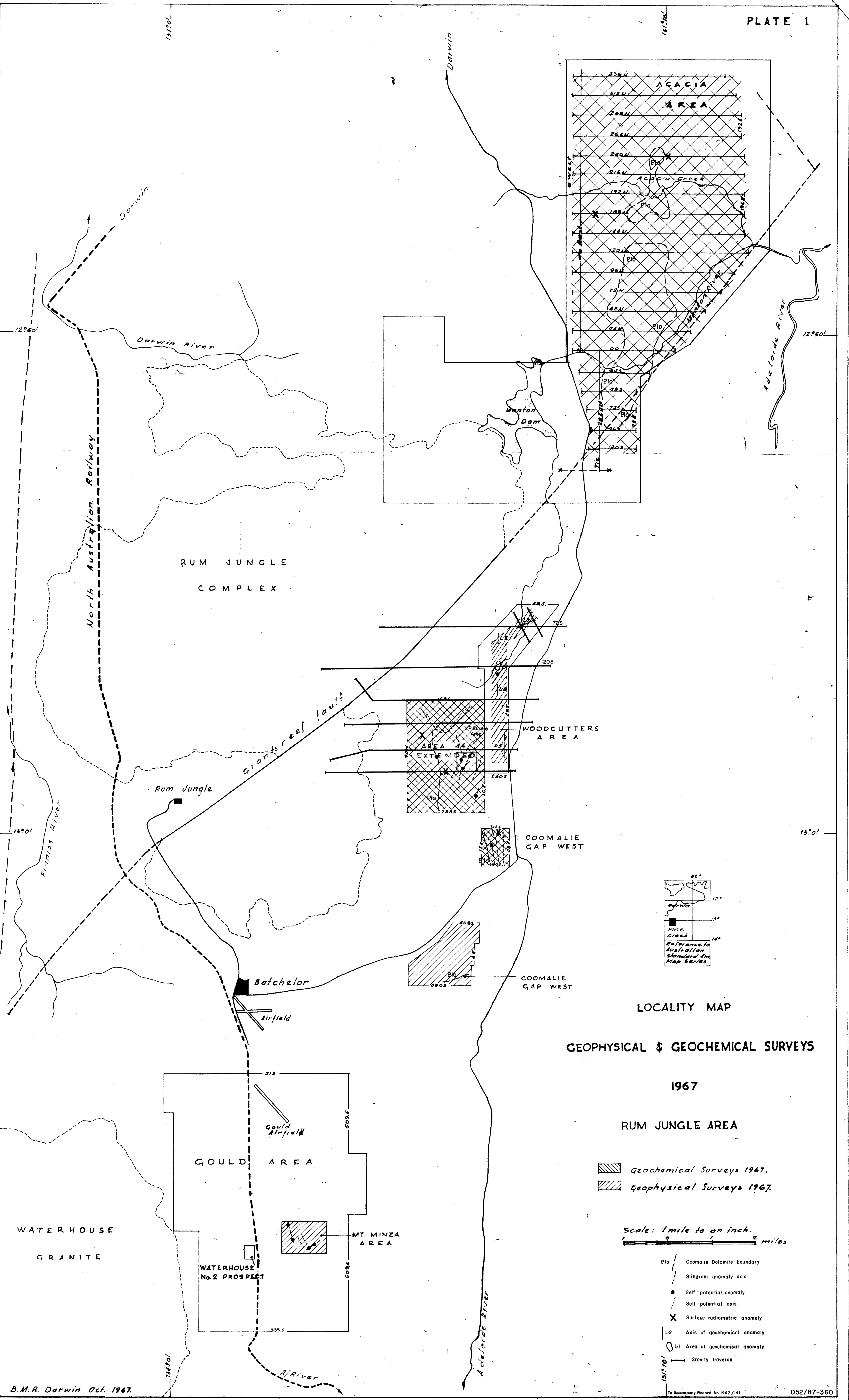
SAMPLE NO.	CO-ORDINATES POSITION		Cu	Pb	Zn	Ni	Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
67122683	272S	30W	35	15	75	80	10	.028	23
84		28W	55	25	50	60	5	.026	23
85		26W	25	100	105	100	5	.023	23
86		24W	40	70	35	55	5	.018	23
87		22W	20	35	10	15	-5	.017	12
88		20W	45	25	55	60	10	.016	23
89		18W	40	30	55	80	20	.019	23
90		16W	80	15	60	90	15	.023	23
91		14W	45	55	75	55	40	.023	23
92		12W	50	40	45	85	15	.024	17
93		10W	30	20	40	60	10	.022	17
94		8W	35	30	30	35	10	.015	17
95		6W	40	70	50	65	25	.011	17
96		4W	45	65	30	50	30	.010	17
97		2W	110	140	220	180	50	.013	17
98		00EW	50	40	65	60	20	.021	17
99		2E	65	20	90	110	25	.017	17
67122700		4E	85	30	170	130	20	.013	17
01		6E	50	15	70	70	10	.013	17
02		8E	35	30	95	75	10	.012	17
03		10E	85	65	190	160	30	.013	11
04		12E	50	15	40	70	15	.009	11
05		14E	90	15	70	110	20	.012	17
06		16E	50	25	120	400	130	.015	17
67122710	276S	10E	35	25	75	80	10	.018	17
11		8E	65	170	85	120	20	.017	17
12		6E	40	190	15	10	5	.019	17
13		4E	30	30	70	75	10	.013	23
14		2E	50	30	50	60	10	.017	23
15		00EW	55	40	140	130	40	.017	23
16		2W	50	40	50	45	15	.011	23
17		4W	50	20	55	45	15	.013	23
18		6 W	60	80	55	50	30	.011	23
19		8W	35	20	100	50	10	.026	23
67122720		10W	35	20	65	50	20	.026	23
21		12W	50	20	65	60	25	.026	23
22		14W	45	30	45	65	25	.017	23
23		16W	40	15	55	45	20	.027	23
24		18W	45	15	65	75	25	.030	23
25		20W	30	25	20	15	-5	.015	23
26		22W	30	5	45	55	5	.018	23
27		24W	30	15	40	60	5	.026	23
28		26W	35	45	60	75	5	.022	23
67122729	276S	28W	20	30	25	25	-5	.032	23

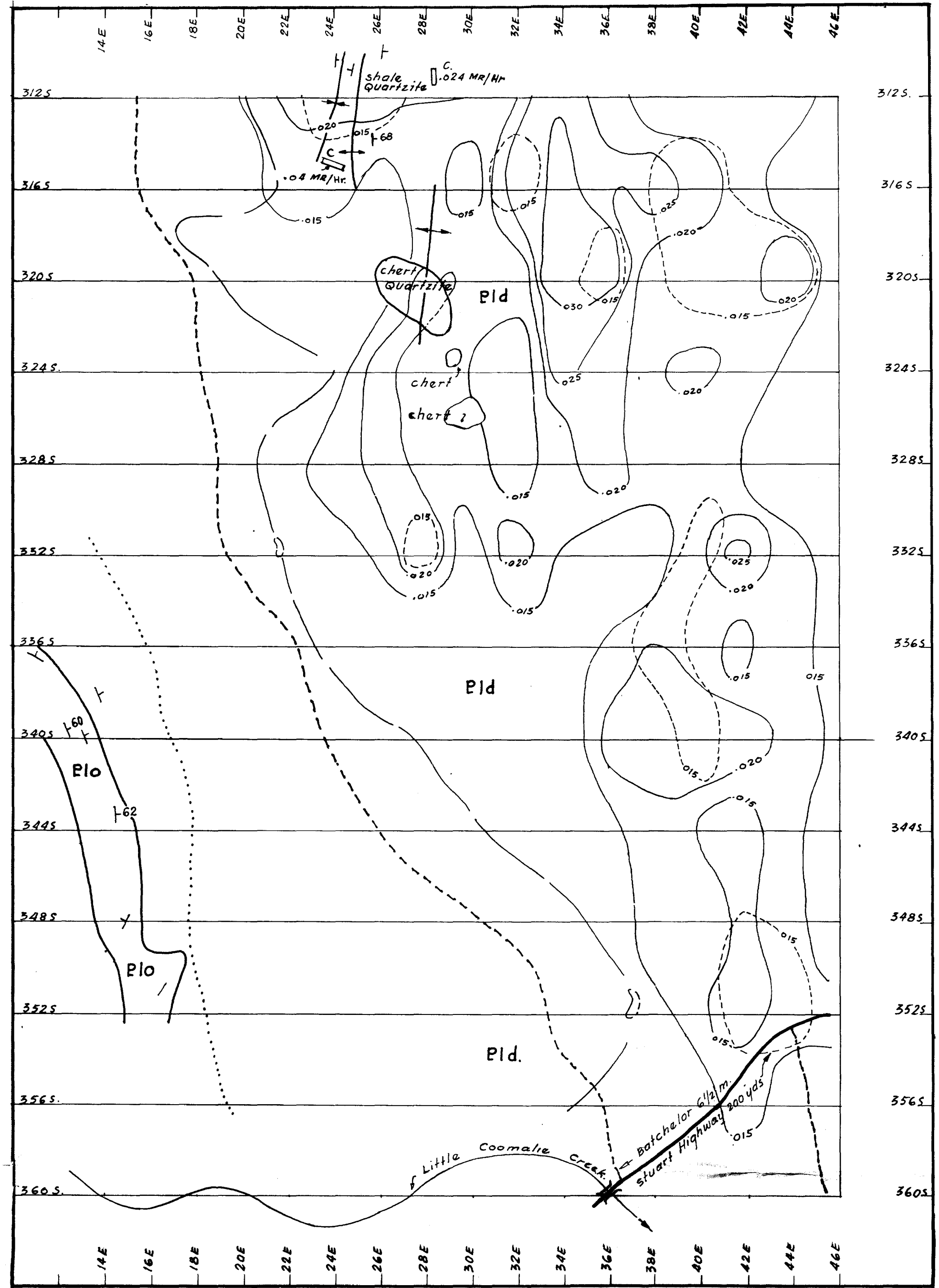
SAMPLE NO.	CO-ORDINATES POSITION		Cu	Pb	Zn	Ni	Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
67122730	276S	30W	30	20	75	65	5	.020	23
31		32W	25	50	110	45	10	.017	23
32		34W	15	40	20	15	-5	.017	23
33		36W	12	50	40	15	-5	.012	23
34		38W	45	15	65	65	20	.016	23
35		40W	55	330	110	70	60	.011	23
36		42W	45	620	450	120	70	.012	23
37		44W	25	60	600	50	25	.009	17
38		46W	20	25	15	10	-5	.010	23
39		48W	45	10	60	50	10	.009	23
67122740		50W	60	40	65	40	40	.010	15
41		52W	50	5	609	25	10	.009	23
42		54W	20	10	70	60	-5	.011	23
43		56W	45	30	80	45	-5	.011	11
44		58W	20	25	10	15	-5	.011	11
45		60W	20	20	10	10	-5	.010	17
46		62W	20	40	30	25	-5	.011	11
47		64W	25	55	20	5	-5	.012	11
48		66W	25	25	10	15	-5	.009	11
49		68W	25	20	10	5	-5	.013	11
67122750		70W	12	15	8	5	-5	.012	11
51		72W	20	20	8	5	-5	.011	17
52		74W	20	35	10	10	-5	.011	11
53		76W	30	45	10	15	-5	.012	17
55		80W	12	90	5	5	-5	.010	9
56		82W	10	15	5	5	-5	.014	17
57		84W	10	10	5	-5	-5	.011	17
58		86W	10	40	20	10	8	.008	9
59		88W	10	20	15	10	-5	.009	17
67122760	280S	90W	15	45	20	15	5	.007	17
61		90W	5	-5	5	-5	-5	.005	4
62		88W	5	25	5	5	-5	-	-
63		86W	5	5	5	-5	-5	.025	17
64		84W	10	10	5	-5	-5	.016	17
65		82W	15	35	10	5	-5	.008	17
66		80W	55	5	45	25	5	.010	17
67		78W	15	10	8	5	-5	.007	11
68		76W	12	20	5	5	-5	.006	11
69		74W	40	20	180	130	100	.005	11
22770		72W	10	10	5	10	-5	.006	11
71		70W	35	10	30	15	5	.006	11
72		68W	95	20	225	-5	30	.008	11
67122773	280S	66W	15	-5	940	220	440	.008	11

SAMPLE NO.	CO-ORDINATES POSITION		Cu	Pb	Zn	Ni	Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
67122774	280S	64W	50	40	300	230	210	.009	17
75		62W	40	110	140	50	20	.009	17
76		60W	30	25	20	25	20	.008	11
77		58W	30	50	20	25	25	.011	11
78		56W	25	20	25	25	10	.008	11
79		54W	15	-5	20	15	15	.011	17
67122780		52W	25	-5	310	45	35	.012	23
81		50W	70	5	65	45	35	.010	23
82		48W	45	10	20	20	30	.011	23
83		46W	20	20	10	5	-5	.012	23
84		44W	25	90	20	15	5	.010	17
85		42W	20	20	15	5	5	.011	17
86		40W	20	20	15	10	5	.011	17
87		38W	25	25	10	15	5	.011	17
88		36W	45	200	40	25	20	.020	17
89		34W	35	10	60	80	15	.030	23
67122790		32W	40	15	100	90	10	.019	23
91		30W	425	90	880	465	70	.025	23
92		28W	20	35	130	115	5	.020	23
93		26W	85	20	110	110	20	.018	23
94		24W	45	180	50	60	15	.018	23
95		22W	35	10	55	50	10	.018	23
96		20W	20	5	50	50	10	.024	23
97		18W	30	5	60	50	15	.021	23
98		16W	35	20	60	60	10	.018	23
99		14W	15	20	95	40	10	.020	23
67122800		12W	20	35	20	15	8	.015	23
01		10W	30	30	15	25	8	.016	23
02		8W	75	50	25	25	15	.023	23
03		6W	40	70	60	55	25	.021	23
04		4W	30	40	120	85	25	.020	23
05		2W	60	45	60	45	20	.015	23
06		00EW	90	140	410	200	75	.015	23
07		2E	50	90	65	65	25	.014	23
08		4E	65	140	15	30	15	.012	23
09		6E	70	35	20	25	10	.031	23
22821	284S	4E	70	45	40	45	30	.012	23
22		2E	75	120	45	65	50	.013	23
23		00EW	100	800	90	55	35	.014	23
24		2W	120	150	80	85	60	.016	23
25		4W	130	55	25	65	15	.020	23
26		6W	45	20	35	20	10	.020	23
27		8W	35	15	30	20	10	.025	23
28		10W	25	20	10	10	10	.023	23
671228 29	284S	12W	40	20	20	25	10	.025	23

SAMPLE NO.	CO-ORDINATES POSITION		Cu	Pb	Zn	Ni	Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
67122830	284S	14W	45	15	130	120	35	.017	23
31		16W	70	30	95	90	120	.020	23
32		18W	40	5	55	65	15	.019	23
33		20W	30	5	45	60	15	.026	23
34		22W	120	15	50	50	15	.042	23
35		24W	35	5	120	70	10	.025	23
36		26W	25	5	110	80	10	.023	23
37		28W	20	15	80	85	30	.038	23
38		30W	150	60	10	15	-5	.037	23
39		32W	45	15	200	165	60	.017	23
67122840		34W	180	80	190	100	20	.022	23
41		36W	35	15	80	60	20	.016	23
42		38W	30	20	30	60	30	.014	23
43		40W	55	270	200	75	25	.012	23
44		42W	65	30	45	35	40	.012	23
45		44W	30	80	165	35	25	.013	23
46		46W	20	-5	170	45	25	.010	23
47		48W	30	-5	125	35	35	.011	17
48		50W	12	10	50	40	45	.012	17
49		52W	70	20	45	60	35	.013	17
67122850		54W	30	5	50	40	40	.011	23
51		56W	35	40	55	55	40	.011	23
52		58W	60	15	75	115	100	.009	18
53		60W	30	35	45	70	55	.009	17
54		62W	20	5	150	140	110	.007	23
55		64W	35	30	60	25	15	.007	17
56		66W	60	50	80	60	75	.008	11
57		68W	20	25	35	25	20	.006	11
58		70W	45	20	395	280	170	.007	11
59		72W	30	5	40	25	5	.006	11
67122860		74W	-5	-5	5	-5	-5	.006	11
61		76W	-5	-5	5	-5	-5	.006	6
62		78W	5	-5	5	5	-5	.005	11
63		80W	85	-5	90	25	5	.008	11
64		82W	70	25	30	10	5	.008	11
65		84W	10	10	8	5	5	.010	17
66		86W	5	-5	8	5	-5	.019	17
67		88W	5	-5	5	-5	-5	.017	17
68		90W	5	10	5	5	-5	.010	6
69	288S	90W	5	-5	5	-5	-5	.011	17
7122870		88W	5	-5	5	-5	-5	.009	23
71		86W	10	-5	15	5	5	.013	23
7122872	288S	84W	85	5	20	15	10	.011	17

SAMPLE NO.	CO-ORDINATES POSITION	Cu	Pb	Zn	Ni	Co	RADIOACTIVITY (mR/Hr)	SAMPLE DEPTH (Feet)
67122873	288S 82W	180	25	750	220	220	.016	11
74	80W	20	-5	20	20	8	.006	11
75	78W	10	-5	5	5	-5	.007	14
76	76W	25	10	30	35	10	.006	6
77	74W	40	25	15	15	-5	.008	11
78	72W	12	10	30	15	15	.005	11
79	70W	25	10	90	90	55	.006	11
67122880	68W	12	-5	50	55	80	.004	4
81	66W	100	-5	45	25	8	.006	11
82	64W	65	5	95	80	60	.008	11
83	62W	40	30	40	65	45	.007	11
84	60W	40	25	40	60	50	.009	11
85	58W	40	50	55	40	35	.012	17
86	56W	10	-5	55	35	25	.009	17
87	54W	40	-5	80	50	25	.008	17
88	52W	30	20	55	60	30	.010	9
89	50W	110	170	85	60	35	.008	12
67122890	48W	30	5	75	40	35	.009	17
91	46W	10	-5	60	30	25	.009	17
92	44W	65	1200	3000	95	70	.011	23
93	42W	50	14	45	65	25	.012	23
94	40W	65	55	250	75	20	.014	23
95	38W	190	20	150	800	80	.011	23
96	36W	60	45	200	160	55	.013	23
97	34W	110	55	130	90	20	.014	23
98	32W	40	20	70	75	20	.018	23
99	30W	270	120	210	120	30	.021	23
67122900	28W	55	65	50	60	5	.019	23
01	26W	60	20	25	45	5	.017	23
02	24W	150	10	35	45	25	.026	23
03	22W	290	45	60	75	35	.023	23
04	20W	70	15	170	100	25	.022	23
05	18W	25	10	35	35	5	.025	23
06	16W	40	15	45	55	25	.020	23
07	14W	35	15	350	90	50	.022	23
08	12W	40	20	130	90	20	.024	23
09	10W	45	20	80	85	30	.028	23
22910	8W	25	15	55	60	20	.026	23
11	6W	45	20	50	35	15	.024	23
12	4W	95	90	100	100	50	.033	23
13	2W	130	65	95	110	50	.030	23
14	00EW	75	140	100	85	30	.019	23
15	2E	90	160	130	100	55	.015	12
16	4E	140	40	30	70	15	.013	23
67122817	288S 6E	60	75	250	150	35	.013	23





REFERENCE

- | | | | |
|--|--------------------------------------|--|--|
| | Outcrop boundary | | Inferred Coomalie-Golden Dyke Boundary |
| | Strike and dip of beds. | | Costean |
| | Vehicle track | | Anticline - accurate |
| | Highway | | Syncline - accurate |
| | Wet season watercourse and billabong | | 0.015 MR/Hr — A/B horizon radiometric contours |
| | Coomalie Dolomite | | 0.015 MR/Hr — C horizon radiometric contours. |
| | Golden Dyke Formation (shale) | | |

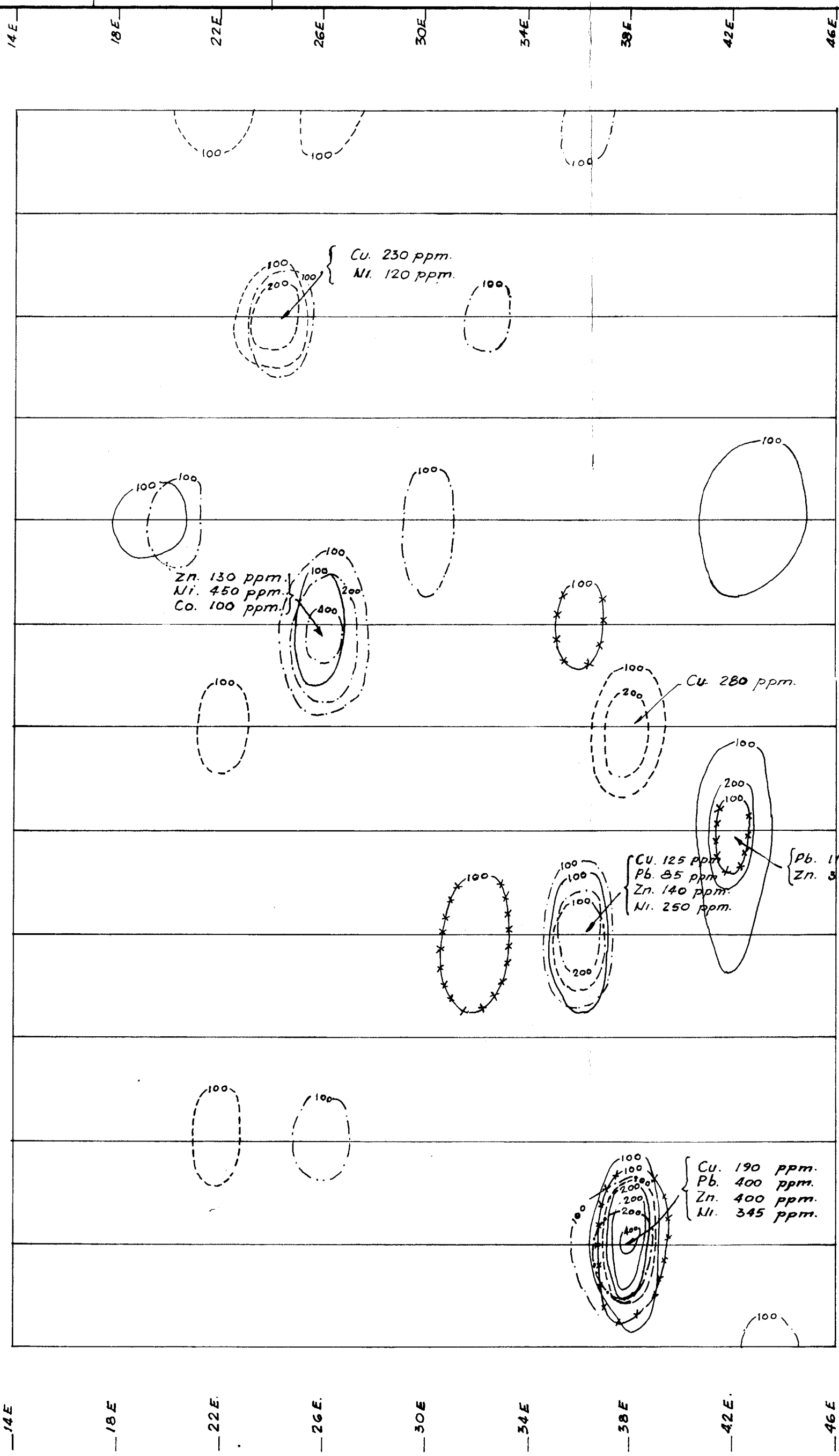
COOMALIE GAP WEST (NORTHERN SECTION) GEOLOGY & RADIOMETRIC CONTOURS

To accompany Record 1968/7

Scale 1" = 400'
400 200 0 400 FT.

PLATE 2

D52/A8/258



REFERENCE:

Copper ----- 100, 200 ppm.
 Lead *-*-*-* 100, 200 ppm.
 Zinc ~~~~~ 100, 200 ppm.
 Nickel -.-.-.- 100, 200, 400 ppm.

**COOMALIE GAP WEST
 NORTHERN SECTION**

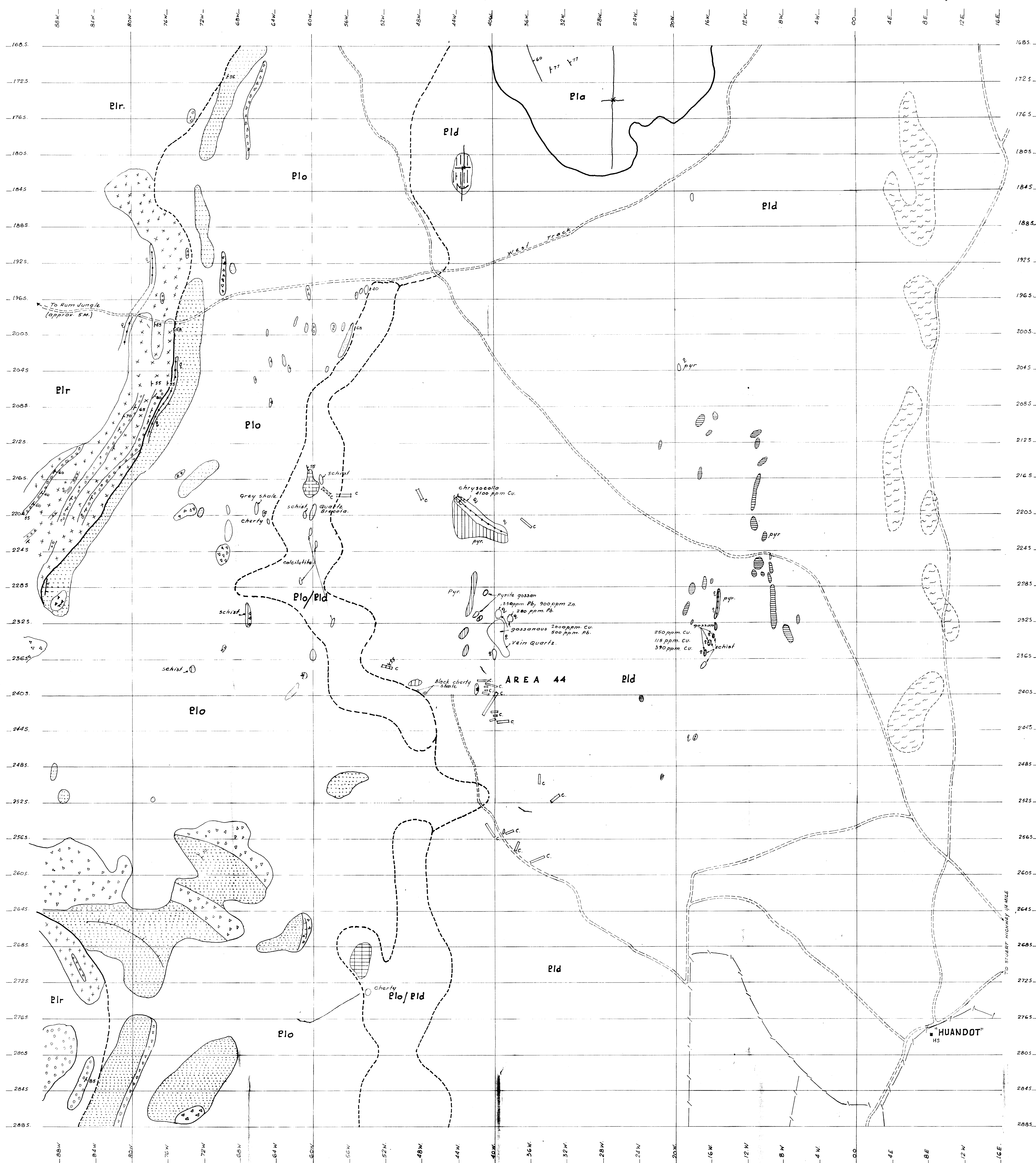
GEOCHEMICAL CONTOURS

Scale 1" = 400 Feet
 400 200 0 400

To accompany Record 1968/7

PLATE 3

D52/A8/259



REFERENCE LOWER PROTEROZOIC

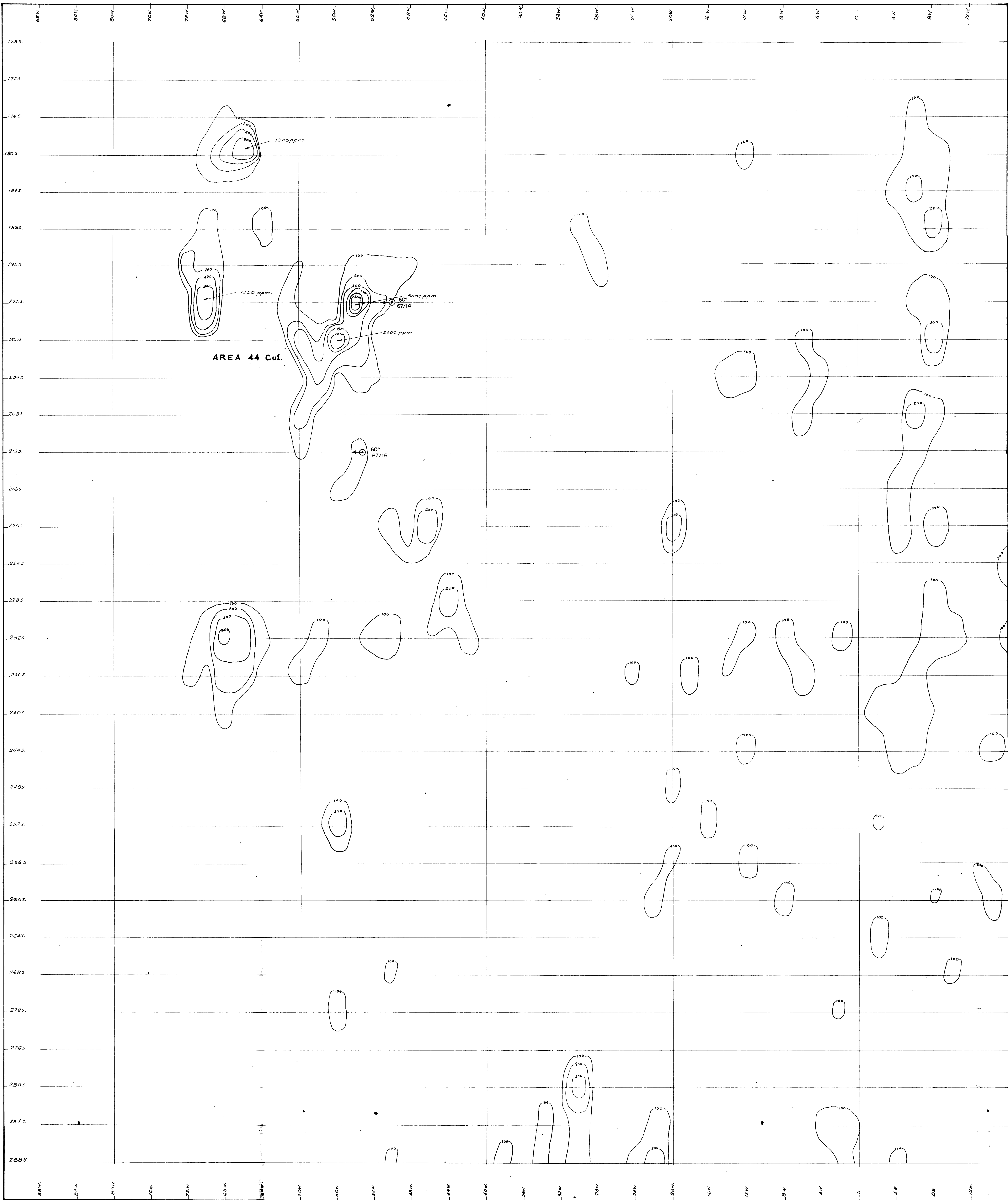
- Golden Dyke Formation Pld.
 - Undifferentiated shale & schist (non-outcropping)
 - Amphibolite (non-outcropping)
 - Brown cherty shale
 - Black cherty shale (often pyritic)
- Acacia Gap Tongue Plo.
 - Quartz Sandstone
- Coomalie Dolomite Plo.
 - Undifferentiated (non-outcropping)
 - Calcilutite
 - Dolomite
- Transition Beds Plo/Pld.
 - Undifferentiated (non-outcropping)
 - Quartz lateritic-ironstone Breccia
 - Quartzite
- Crater Formation Plr.
 - Undifferentiated (non-outcropping)
 - Quartz-pebble conglomerate
 - Quartz greywacke

GEOLOGICAL BOUNDARIES

- Formation boundary-outcropping
- Formation boundary-non outcropping
- Outcrop boundary
- Non-outcropping boundary
- strike and dip of strata
 - Inclined, (showing prevailing dip)
 - Inclined joints
- FOLDS
 - Established Synclinal trough position accurate
- General:
 - Quartz vein
 - Costean.
 - Pyrite
 - Copper
 - Lead
 - Zinc
 - Homestead
 - Vehicle track
 - Fence.

GEOLOGY AREA 44 EXTENDED RUM JUNGLE EAST - N.T.

Scale 1" = 400 Feet



←○ Diamond Drill Hole

COPPER CONTOURS - AREA 44 EXTENDED

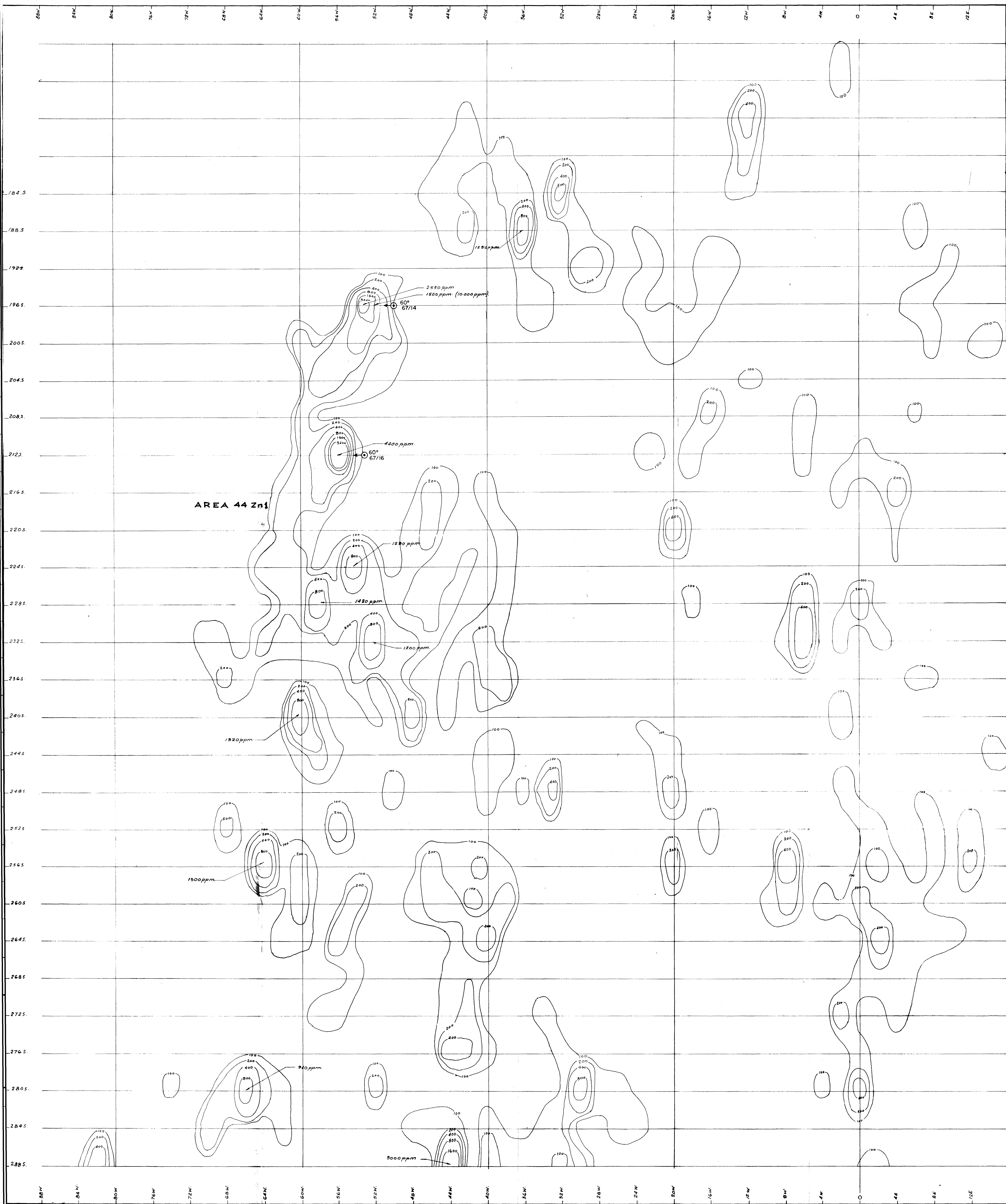
RUM JUNGLE EAST GRID N. T.

Scale 1" = 4000'

To accompany Record 1968/7

PLATE 6

D52/A8/251



←○ Diamond Drill Holes

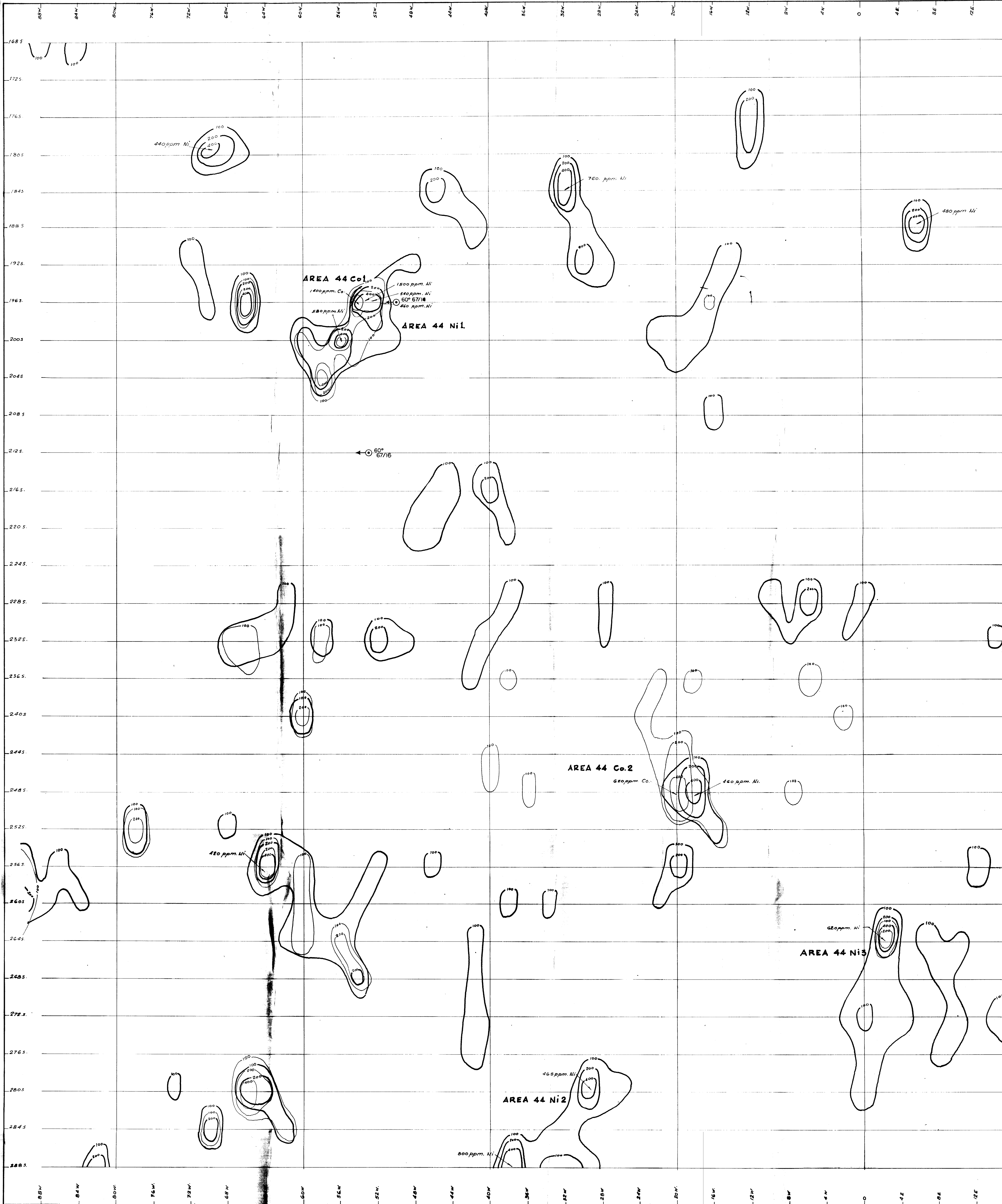
ZINC CONTOURS - AREA 44 EXTENDED

RUM JUNGLE EAST GRID N.T.

Scale 1" = 400'

PLATE 7

To accompany Record 1968/7



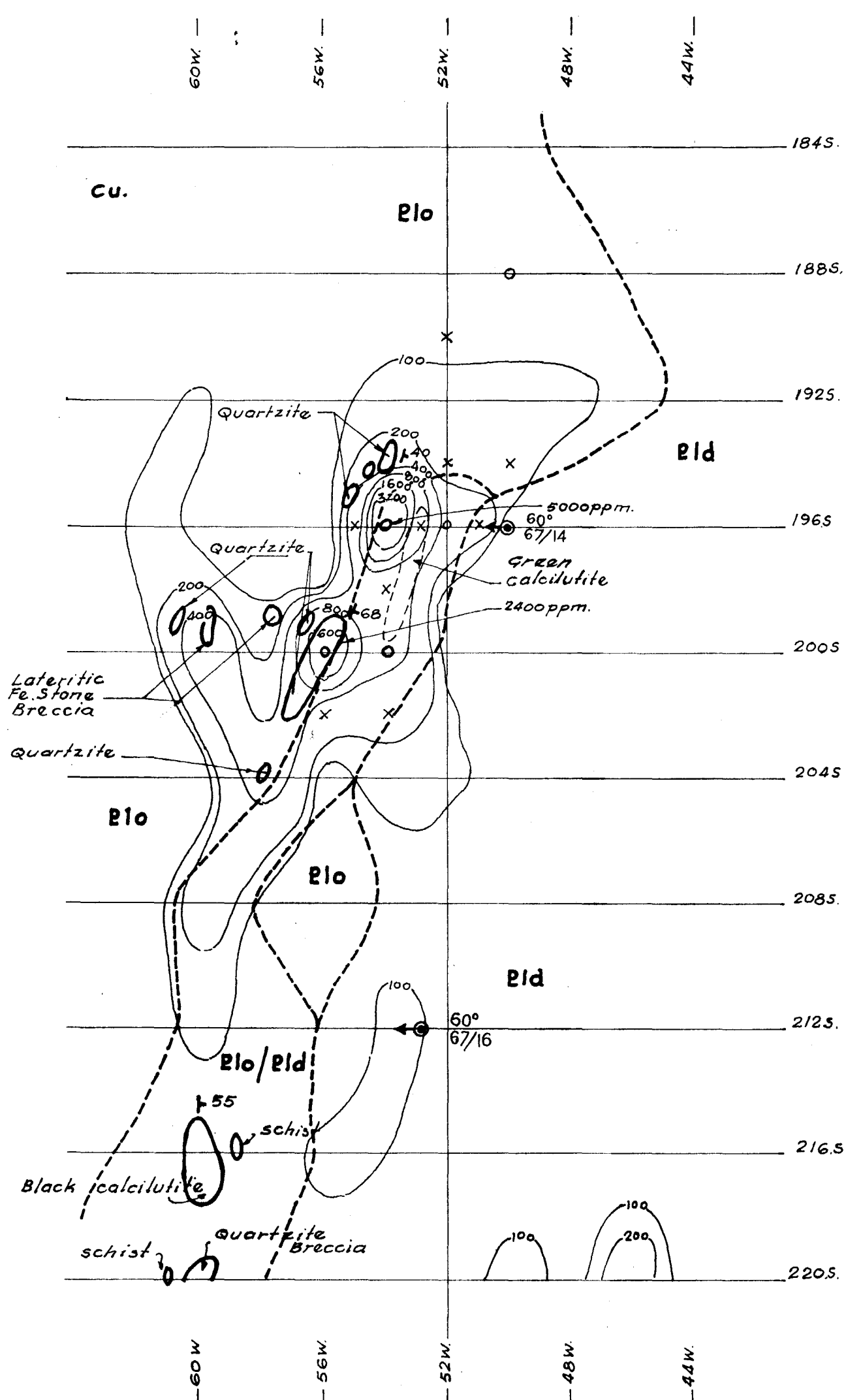
REFERENCE

Nickel contours 100, 200, 400 ppm. —
Cobalt contours 100, 200, 400, 800 ppm. —

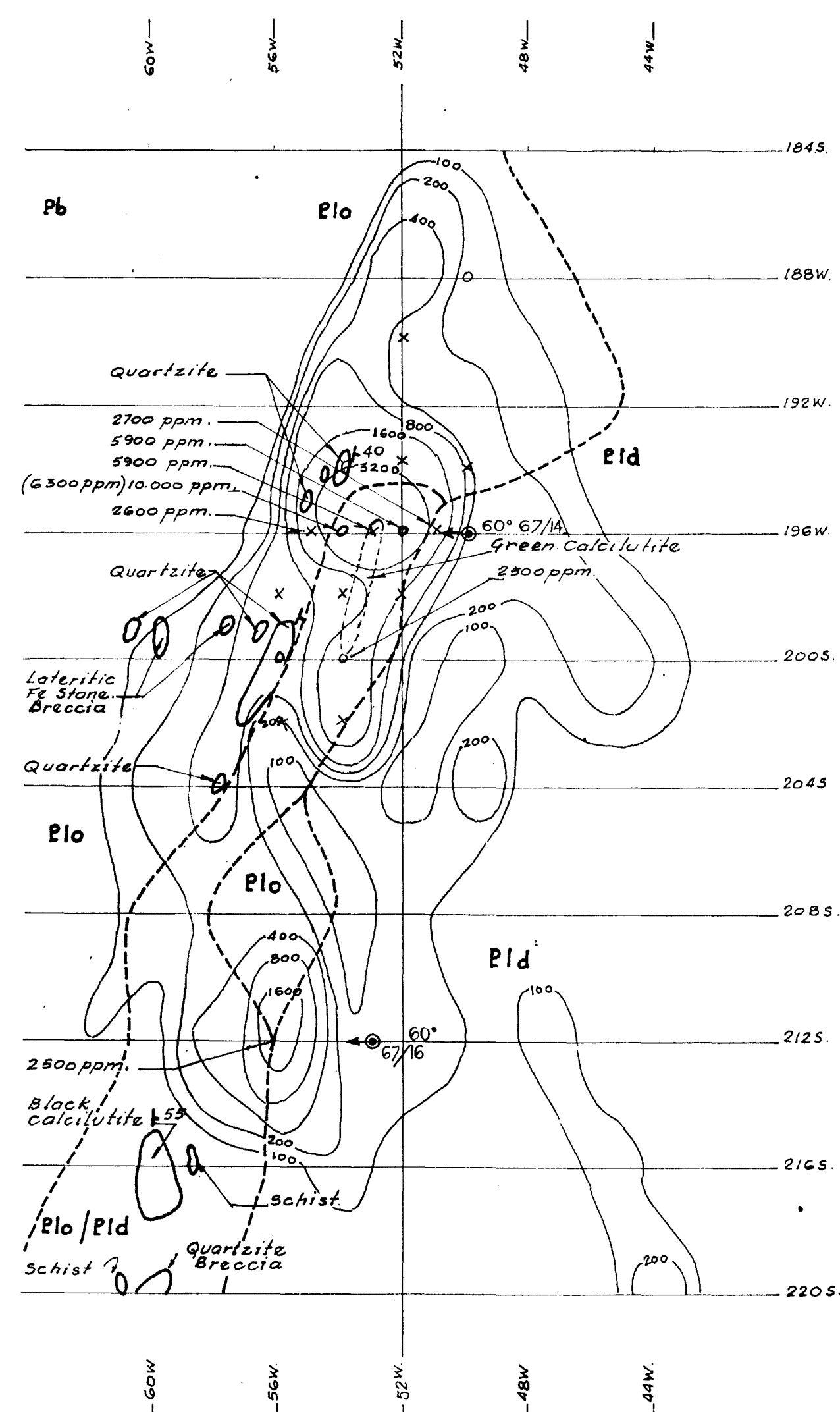
←● Diamond Drill Hole

NICKEL AND COBALT CONTOURS - AREA 44 EXTENDED
RUM JUNGLE EAST GRID N.T.

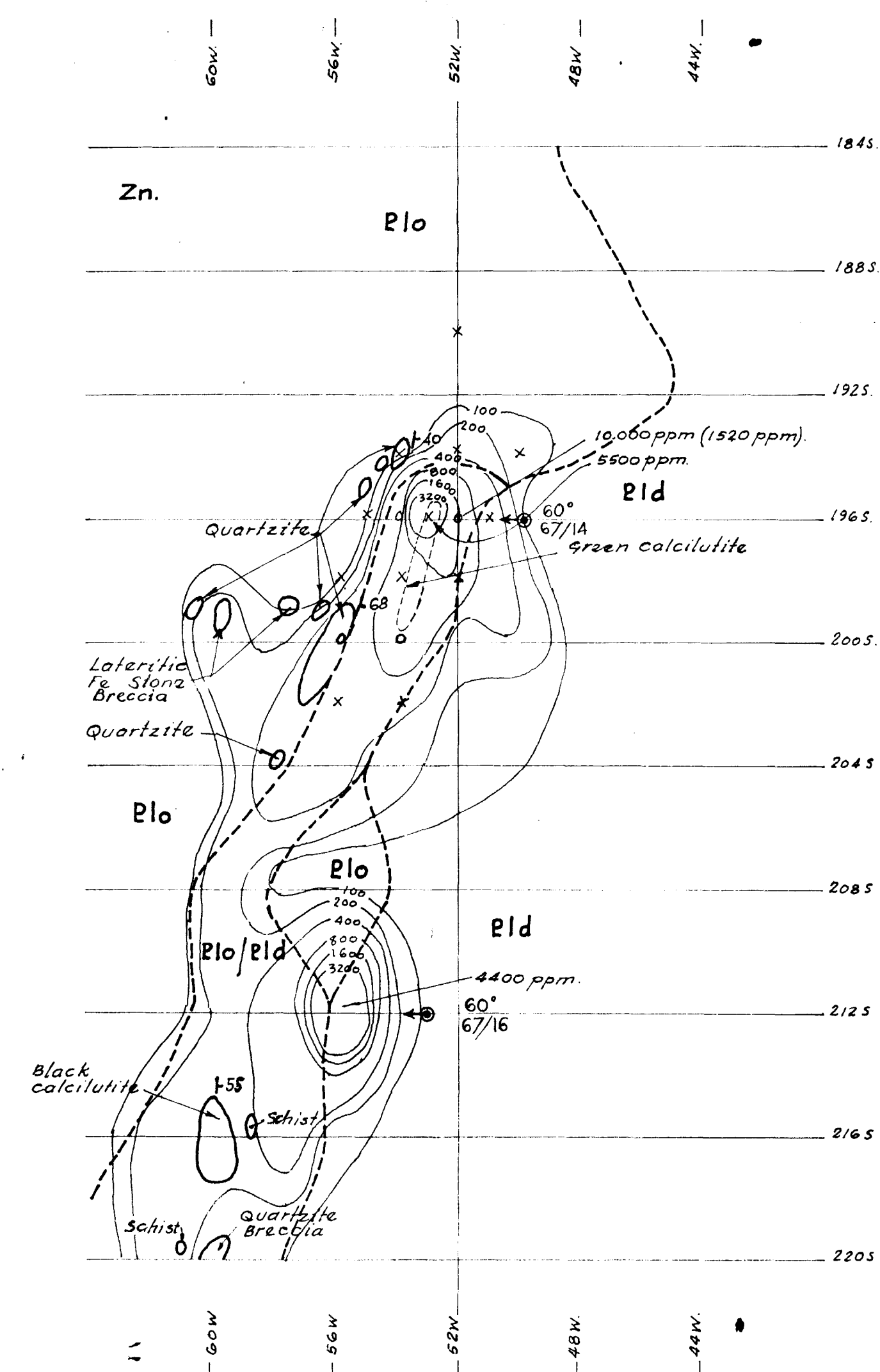
Scale 1" = 400'0"



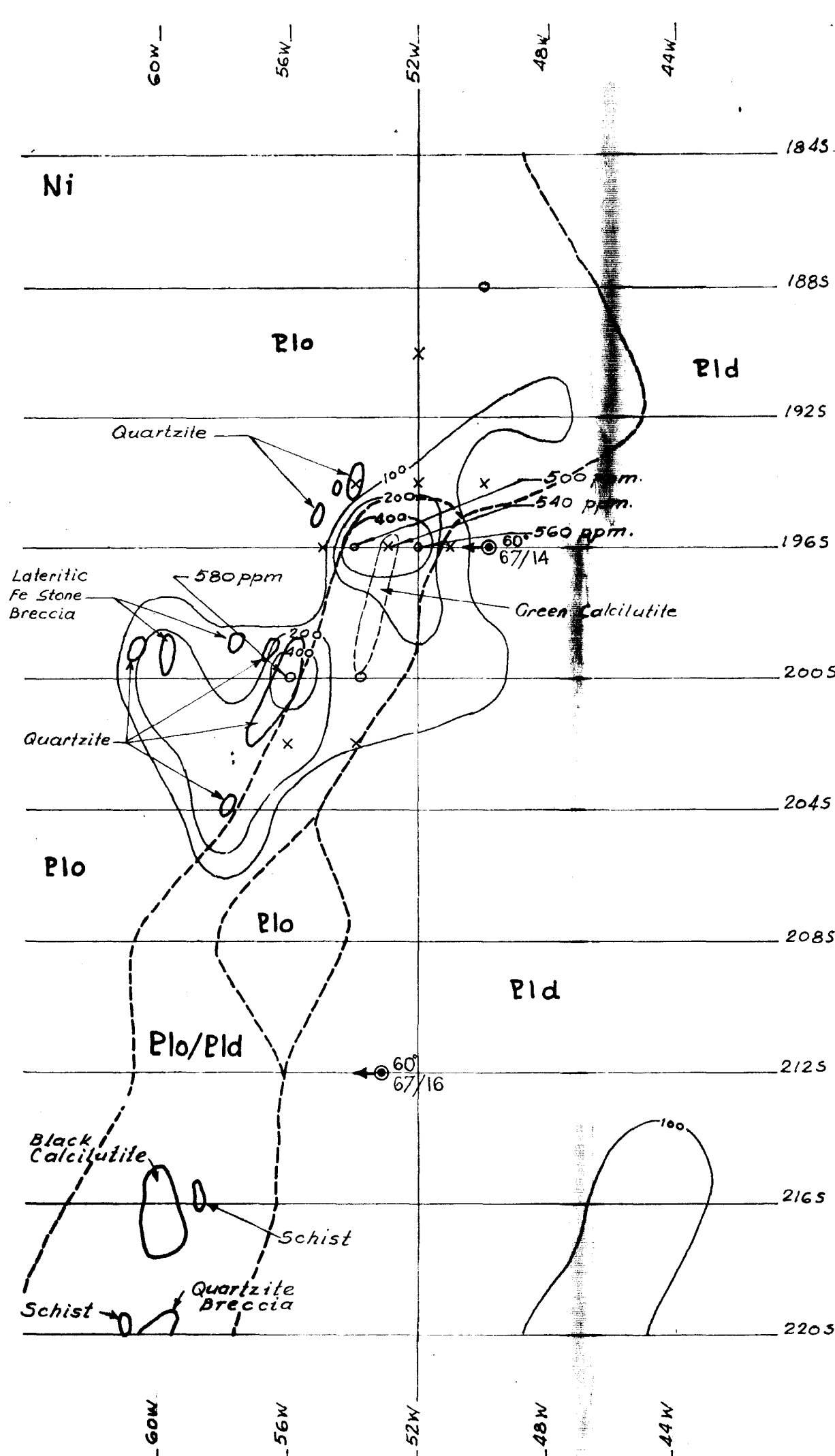
COPPER CONTOURS AT 100, 200, 400, 800, 1600, 3200 ppm.



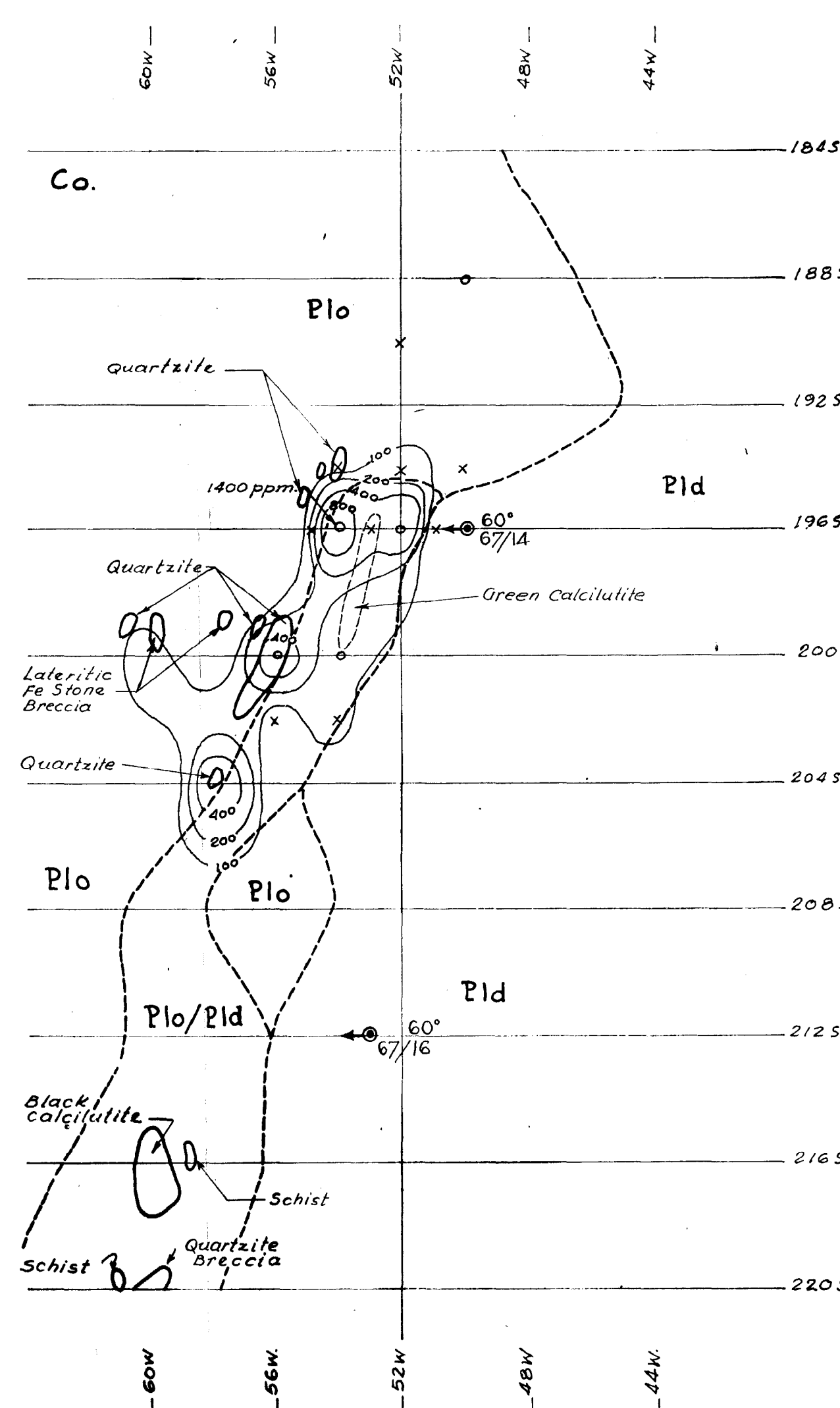
LEAD CONTOURS AT 100, 200, 400, 800, 1600, 3200 ppm.



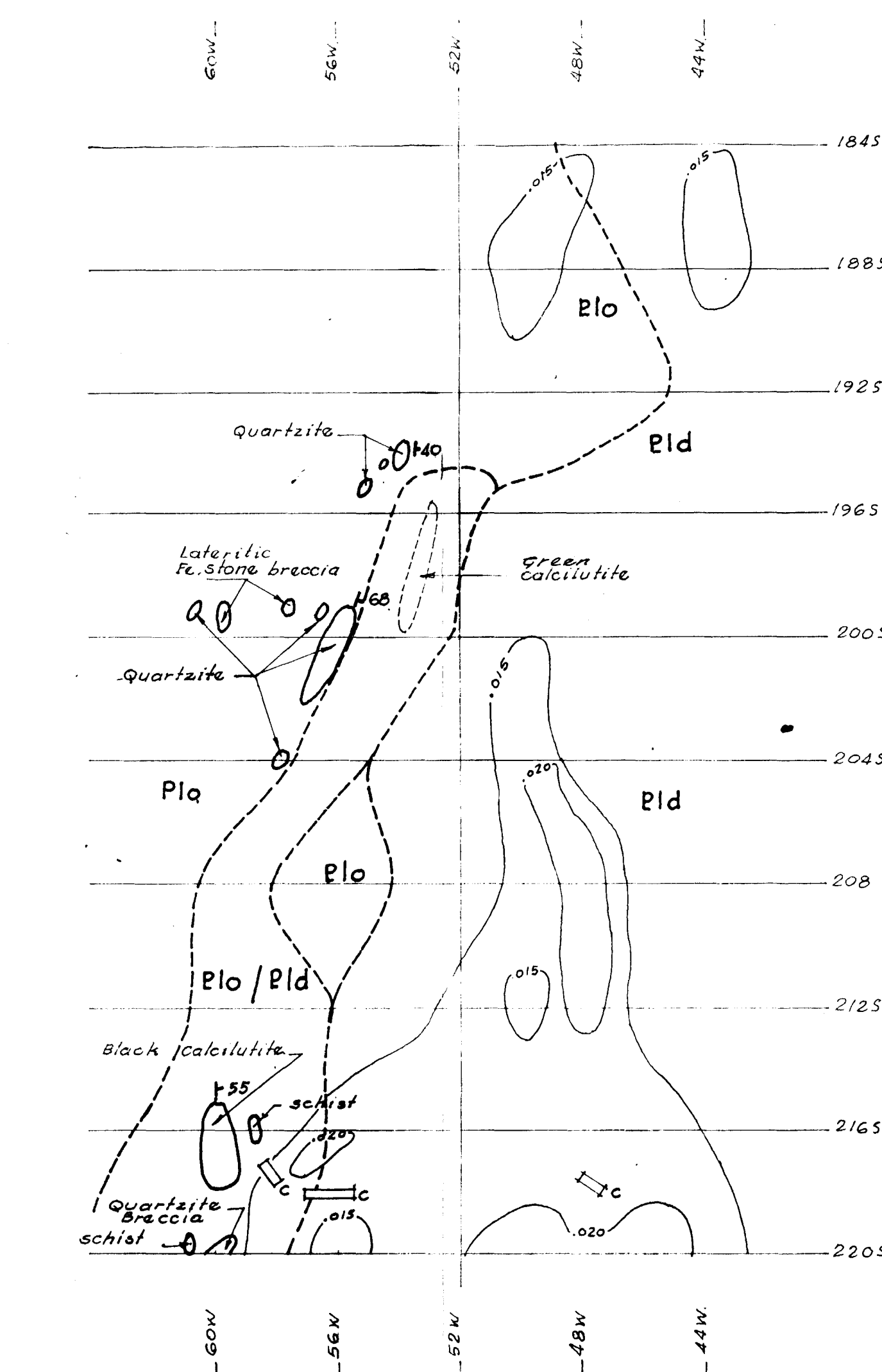
ZINC CONTOURS AT 100, 200, 400, 800, 1600, 3200 ppm.



NICKEL CONTOURS AT 100, 200, 400 ppm.



COBALT CONTOURS AT 100, 200, 400, 800 ppm.



RADIOMETRIC CONTOURS AT 0.015 0.020 MR/Hr.

Geochemical samples taken from bottom of Auger holes, holes drilled at 200' intervals along traverses spaced 400' apart, except where indicated by x supplementary hole.
 Samples analysed at AMDEL by atomic absorption spectrophotometer.
 o Hole redrilled & resampled.
 ◄ Diamond Drill Hole

AREA 44 EXTENDED
 ANOMALIES Cu, Pb, Zn, Ni, Co.
 WITH GEOLOGY AND RADIOMETRIC CONTOURS