UTAH MINES LTD.

ISLAND COPPER MINE

GEOCHEM SURVEY WEST END CLAIMS

(FAME REPORT)

J.A. Fleming

February 23, 1987

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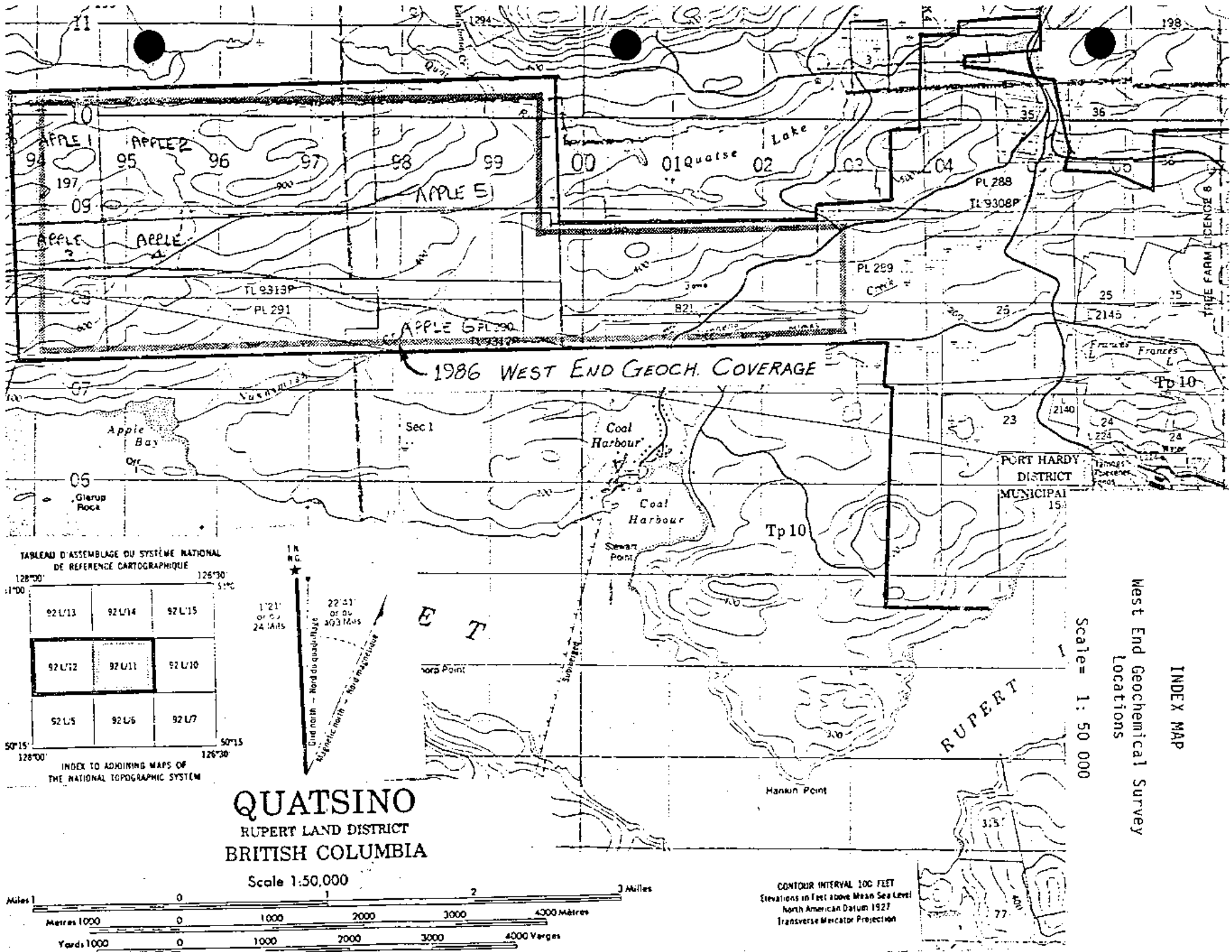
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1.0 INTRODUCTION

Between August 8 and August 28, 1986, a two-person sampling crew spent 12 crew-days collecting soil samples in the Apple, Mimas and Juno Claims, north of Holberg Inlet. This was part of an ongoing soil sampling program on the Island Copper mineral property. The plan was to sample the reddish-brown soil underlying the organic cover, but to collect a sample anyway if that horizon could not be reached or was absent. Samples were collected on road edges at stations set 30.5 meters apart. A total of 765 samples were collected. A total of 376 were given a DCP analysis for copper, molybdenum, lead, zinc, silver, arsenic and manganese. Generally, only every second sample (odd numbers) have been submitted for assay. Alternate samples will be submitted as follow-up in anomalous areas.

The objective of the survey was to provide broad geochemical coverage over the claims adequate to establish background parameters and possibly to detect the presence of a near surface porphyry copper-moly deposit where the overburden is less than about 50 feet thick. The elements selected for study are considered to be the most suitable for detecting the target deposit and could possibly detect underlying lead-zinc vein type mineralization under favourable conditions of overburden thickness. By using a multi-element approach, new information could be gained about the area. Manganese was included to evaluate possible base metal scavenging effects.

Geochemical survey grids had been previously run on the Apple 3 and Apple 1 claims (Assessment Report submitted on Apple 1 work). The present road survey provided follow-up data in these areas.

2.0 LOCATION AND ACCESS

The survey area is located in the Nanaimo Mining Division with co-ordinates 50° 38'N & 127° 40'E. It is located on the NTS map sheet 92L/12 and borders on claims contiguous with the Utah Mines Ltd. mineral leases some 8 km south of Port Hardy. Access is provided part way by paved highway from Port Hardy and the remainder by logging roads suitable for two wheel drive vehicles.

3.0 CLIMATE

Precipitation at the Port Hardy airport is normally about 160 cm per year including 42 cm of snow. Minimum and maximum temperatures are usually in the range of -12° and 27°C.

4.0 GEOLOGY

The Upper Triassic and Lower Jurassic sedimentary and volcanic succession of the Vancouver and Bonanza Groups respectively, and the Jurassic "Wanokana" Stock underlie the area north of Holberg Inlet (Map 2). The succession strikes approximately west-northwest and dips gently southward becoming younger to the south. From south to north the formations are: (1) Bonanza Volcanics andesitic tuffs and flows underlain by (2) Parson Bay calcareous siltstone with interbedded shales and andesitic and cherty tuffs, and limestone with shaley interbeds underlain by (3) Quatsino limestone and (4) Karmutsen amygdaloidal basalt flows. The Wanokana Stock underlies the northwest corner of Quatse Lake and the uplands cutting the Bonanza Volcanics. It is a mesozonal granodiorite.

5.0 PHYSIOGRAPHY AND VEGETATION

a) Topography and Landscape

The area is in the coastal lowland of the Suquash Basin forming part of the Nahwitti Lowlands of the Central Trough physiographic subdivision. The area is characterized by rounded, gently rolling hills with a maximum relief of about 275 meters.

b) Drainage

i) Stream Drainage

Nuknimish Creek and tributaries drain south across the survey area, with a moderate gradient, into Holberg Inlet.

ii) Lakes

A small lake occurs on CH 1000 Road, from stations 61 to 78. Another small lake occurs to the north of WN 730 Road and drains to the west into Wanokana Creek.

c) Overburden, Soils and Vegetation

i) Overburden

The area has a variable cover of glacial till, peat and moss. Outcrop exposure in the area is sparce. Overburden thickness over the survey area is unknown, but probably exceeds 15 meters.

ii) Soil Development

The B horizon is well developed on the North Island, but it is not always possible to observe because of the accumulation of organic waste which varies from forest litter to well fermented material. A high proportion of the samples have been taken from B horizon, as the B horizon could be reached easily from the road-cuts.

iii) Vegetation

The vegetation consists mainly of coniferous, virgin forest, with abundant salal and alder second-growth on the roadsides.

6.0 SAMPLE COLLECTION AND PREPARATION

a) Collection

i) Sampling Plan

Samples were collected using a narrow trenching shovel at stations spaced at 30.5 meter intervals along the road edges.

ii) Sample Medium Collected

The objective was to sample, whenever possible, the reddish-brown soil underlying the organic cover. Roots, twigs, and leaves were avoided as much as possible. If the sought horizon could not be reached, or was not present, a sample of the available material was taken and the horizon recorded.

iii) Sample Collection

About 50 to 60 grams of soil were collected at each station and placed in kraft paper envelopes.

iv) Sample Handling

Samples were dried in a drying oven at a temperature of 80° C for about 12 hours for drying prior to shipping to lab.

b) Laboratories

The samples were sent to one lab, Utah International's Lab in Sunnyvale, California, for the DCP analyses. Assay sheets are included in Appendix A.

c) Sample Analysis

Methods of sample analysis are provided in Appendix A with the assay sheets.

d) Data Handling

Cumulative probability plots and histograms were generated for all elements (Appendix C). Assays below detection limits were not included in the statistical analysis. These assays probably constitute a separate population. Assays are included in Appendix A. The probability curves for copper, lead, zinc, silver, manganese and arsenic suggest the presence of more than one population. In each of these the upper population is only partially represented. Therefore, partitioning of the curves into separate populations was not attempted. The plot for molybdenum appears to represent a single population. Anomaly thresholds for copper, zinc and arsenic were selected at slope breaks at high concentration tails. The thresholds for the remainder of the elements where slope breaks are not definitive were selected arbitrarily at between the upper two and five cumulative percent levels. These values and the basic distribution parameters are given in the following table.

TABLE - 1 Statistical Parameters

Name	# of Values	Arithmetic (ppm) Mean	Std. Dev.	Anomaly Thresholds (ppm)
Cu	376	49.2	24.4	100
Mo	375	6.9	2.3	12
Pb	375	8.0	7.0	22
Zn	376	64.2	35.7	125
Ag	227	0.35	0.2	0.8
Mn	376	376.4	321.9	1000
As	276	9.0	8.0	25

The assay values for all elements are plotted on the 1:4800 scale maps. The station symbols are sized according to the threshold levels the assays fall in. A. Reeves, A.Sc.T., of the Geology Department prepared the maps and did a preliminary evaluation of the anomalies.

7.0 RESULTS

Metal levels are low overall, and most anomalies are at or just above the selected threshold levels. This suggests that the anomalies do not represent anomalous populations, but are the result of threshold levels that are too low. In addition, most of the anomalies are single element and/or single station anomalies. Some of the anomalies are in samples collected from the A-horizon and are probably enhanced due to the effects of metal scavenging by the organic material.

Overburden thickness is unknown. Thus, multielement and multistation anomalies, albeit weak, that are not explained by possible enhancement by organic material are considered of potential interest.

The areas/samples of interest from east to west are as follow:

1) CH300 - #'s 1 - 13

A string of six samples with low to moderate zinc anomalies, a low-moderate copper anomaly and an arsenic high of 61 ppm As occur near a garbage cache. These may not necessarily be accounted for by contamination.

2) CH1000 - #'s 3, 5, 7.

Three adjacent zinc anomalies in the 140 - 170 ppm Zn range. A quarry on the north side of the road may have caused contamination.

3) WN Main - #25

A single station multielement anomaly with 320 ppm Cu, 18 ppm Mo, 94 ppm Pb, 255 ppm Zn, and 1.3 ppm Ag. The sample was collected from a rocky "B" horizon and may have contained rock fragments. Some swampy ground lies to the south of the road.

4) WN 800 - WN 840 - Junction Area

Silver anomalies ranging from threshold to 2.2 ppm Ag occur as single or multielement anomalies with low copper, zinc and arsenic anomalies. To the west spot highs of silver arsenic, lead and zinc were detected on the previous grid survey. This constitutes an fairly broad area of low level anomalies that may reflect anomalous mineralization below.

5) CH 1000 - #'s 69 - 81

A series of low level single and multielement molybdenum, zinc and low to moderate arsenic anomalies. Survey ground north of the road may have caused the anomalies.

8.0 CONCLUSIONS

Anomalies are too low to suggest a strong possibility of a hidden mineral deposit in the area. However, such deposit(s) may be masked by the attenuating effect of thick and/or compact tills. Follow-up assaying and sampling is therefore warranted in the anomalous areas described above.

9.0 COST STATEMENT

Labour (2 Person Crew)	
Prorated on 765 Samples (45%)	$5,705.67
Assays (Sunnyvale Lab)	
Prorated on 367 DCP Assays (43%)	1,733.59
Truck Rental	
Prorated on 765 Samples (45%)	618.19
Total Cost:	$8,057.45

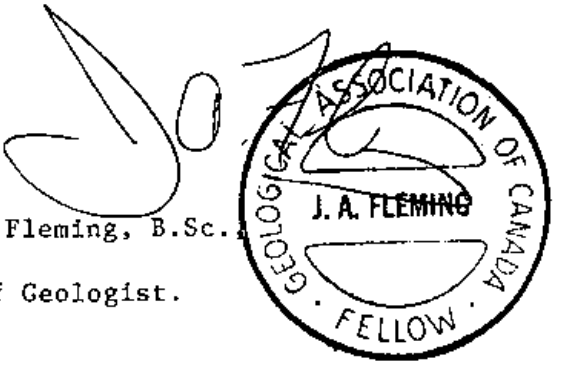
STATEMENT OF QUALIFICATIONS

I submit that I am qualified to prepare and present this report for assessment credit. My qualifications are as follows:

1) I have a B.Sc., (Major Geology) 1971 from McGill University.

2) I have been employed as a geologist continuously since June, 1968, and am presently Chief Geologist, Island Copper Mine, Utah Mines Ltd.

3) I have been a Fellow of the Geological Association of Canada since 1974.



J.A. Fleming, B.Sc.

Chief Geologist.

Island Copper Mine,
Utah Mines Ltd.

Date: February 23, 1987.

APPENDIX A
ASSAYS

SAMPLE PREPARATION

Samples are dried and screened to -80 mesh. A 500 mg sample of the fine fraction is dissolved in a solution of 2 ml nitric/2 ml perchloric acid diluted to 10 ml in 20% hydrocloric acid for 3 - 4 hours. The solution was subjected to DC plasma analysis using a Specmin SpectraSpan 6 system, with the instrument programmed and calibrated for the elements reported.

Report of Chemical Analysis

UTAH International Inc. Minerals Laboratory
1190 Bordeaux Drive
Sunnyvale, California 94089
Phone: (408) 744-1400

Project: Island Copper Recon. Submitted by: T. Fleming
Charge: Island Cu Exp. Minerals Lab No. 36- 620

SAMPLE ID	ppm CU	ppm MO	ppm PB	ppm ZN	ppm AG	ppm MN	ppm AS
CHMAIN-1	44	11	10	138	0.4	2050	-2
CHMAIN-3	52	8	7	75	-0.2	255	5
CHMAIN-5	44	7	12	85	-0.2	250	7
CHMAIN-7	63	8	8	96	0.2	510	-2
CHMAIN-9	50	8	8	71	-0.2	330	3
CHMAIN-11	48	8	3	44	-0.2	235	3
CHMAIN-13	56	8	10	56	-0.2	255	11
CHMAIN-15	33	9	4	57	0.3	245	-2
CHMAIN-17	43	7	7	36	-0.2	180	6
CHMAIN-19	35	7	6	50	0.2	215	5
CHMAIN-21	61	7	5	69	-0.2	325	4
CHMAIN-23	55	7	5	87	0.3	470	8
CHMAIN-25	38	8	6	61	0.2	290	11
CHMAIN-27	44	9	4	69	0.3	270	6
CHMAIN-29	60	6	4	50	-0.2	275	9
CHMAIN-31	18	7	7	61	-0.2	154	3
CHMAIN-33	58	8	4	57	0.3	295	4
CHMAIN-35	40	8	5	40	-0.2	210	-2
CHMAIN-37	85	9	6	61	0.2	340	9
CHMAIN-39	50	8	10	47	-0.2	290	15
CHMAIN-41	46	7	6	42	-0.2	435	2
CHMAIN-43	42	8	11	42	0.4	225	3
CHMAIN-45	47	8	16	40	0.3	315	2
CHMAIN-47	28	8	7	23	0.4	148	-2
CHMAIN-49	66	7	9	51	-0.2	355	3
CHMAIN-51	45	11	7	55	0.3	350	-2
CHMAIN-53	38	13	7	66	-0.2	1380	6
CHMAIN-55	29	9	9	40	0.3	275	4
CHMAIN-57	39	12	10	55	0.5	215	-2
CHMAIN-59	34	8	6	39	0.4	245	7
CHMAIN-61	41	8	9	33	0.4	235	-2
CHMAIN-63	62	8	9	76	0.5	245	8
CHMAIN-65	57	8	5	67	0.3	415	3
CHMAIN-67	62	7	4	76	0.4	335	2
CHMAIN-69	36	8	8	49	0.4	230	-2
CHMAIN-71	45	8	4	74	0.3	240	-2
CHMAIN-73	64	8	9	72	0.3	230	5
CH1000-1	49	8	4	55	-0.2	270	11
CH1000-3	43	8	8	142	0.2	460	18
CH1000-5	52	9	8	162	0.5	330	12
CH1000-7	68	8	10	164	-0.2	360	9
CH1000-9	31	8	15	42	0.4	210	3
CH1000-11	57	9	23	90	-0.2	390	11
CH1000-13	37	9	11	56	0.2	280	-2
CH1000-15	77	8	11	84	0.2	320	6
CH1000-17	43	8	7	70	0.3	280	5
CH1000-19	49	8	3	59	0.4	235	6

Report of Chemical Analysis

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Project: Island Copper Recon. Submitted by: J. Fleming
Charge: Island Cu Geo. Minerals Lab No. 86- 620

SAMPLE ID	ppm CU	ppm MO	ppm PB	ppm ZN	ppm AG	ppm MN	ppm AS
CH1000-21	53	8	4	67	-0.2	275	2
CH1000-23	66	10	5	58	0.3	335	3
CH1000-25	35	10	7	47	0.3	1930	8
CH1000-27	47	11	5	46	0.3	390	5
CH1000-29	56	15	7	80	-0.2	1080	8
CH1000-31	53	7	7	57	-0.2	365	6
CH1000-33	69	10	6	68	-0.2	415	8
CH1000-35	34	13	7	46	-0.2	440	8
CH1000-37	53	12	6	63	0.3	1230	5
CH1000-39	48	11	7	40	0.4	245	4
CH1000-41	55	11	6	69	-0.2	1750	7
CH1000-43	53	10	6	60	0.3	270	4
CH1000-45	58	8	7	45	0.3	315	12
CH1000-47	42	9	6	45	0.2	285	5
CH1000-49	36	8	6	41	0.3	225	3
CH1000-51	27	7	6	29	-0.2	200	-2
CH1000-53	79	7	5	47	-0.2	345	11
CH1000-55	60	8	5	29	-0.2	225	5
CH1000-57	74	8	7	43	0.3	255	3
CH1000-59	38	10	5	31	-0.2	350	10
CH1000-61	45	8	5	46	-0.2	490	13
CH1000-63	33	9	5	35	0.2	168	64
CH1000-65	38	8	6	37	-0.2	225	11
CH1000-67	45	8	5	40	-0.2	290	10
CH1000-69	31	15	4	71	0.3	215	35
CH1000-71	24	12	4	100	0.4	225	27
CH1000-73	34	15	6	152	0.6	265	32
CH1000-75	29	12	6	78	0.3	225	21
CH1000-77	31	12	6	55	0.3	205	9
CH1000-79	34	21	11	158	0.3	490	15
CH1000-81	53	10	5	82	0.4	275	32
CH1000-83	41	7	6	49	0.4	215	11
CH1000-85	13	9	9	24	-0.2	120	2
CH1000-87	39	9	7	73	0.2	315	14
CH1000-89	25	10	7	31	-0.2	166	9
CH1000-91	18	10	6	25	-0.2	186	26
CH1000-93	13	8	5	26	-0.2	245	15
CH1000-95	49	8	4	33	0.3	280	6
CH1000-97	26	10	6	25	0.5	168	-2
CH1000-99	58	9	6	52	0.3	370	9
CH1000-101	33	6	5	32	0.3	220	-2
CH1000-103	28	7	8	63	-0.2	405	11
CH1000-105	48	7	6	36	-0.2	295	6
CH1000-107	66	8	6	70	0.4	440	6
CH1000-109	55	8	7	65	-0.2	490	10
CH1000-111	26	8	9	30	0.3	760	3
CH1010-1	46	7	6	41	0.2	245	10

Report of Chemical Analysis

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Project: Island Copper Recon. Submitted by: S. Fleming
Charge: Island Cu Geo. Minerals Lab No. 86- 620

SAMPLE ID	ppm CU	ppm MO	ppm PB	ppm ZN	ppm AG	ppm MN	ppm AS
CH1010-3	60	9	8	63	0.5	270	32
CH1010-5	47	11	11	96	0.5	270	11
CH1010-7	45	8	6	102	-0.2	610	11
CH1040-1	20	12	11	25	-0.2	122	6
CH1040-3	45	8	8	124	0.2	305	-2
CH1040-5	36	8	8	36	-0.2	260	8
CH1040-7	16	4	3	26	0.2	118	5
CH1040-9	52	9	11	53	0.4	198	17
CH1040-11	26	12	8	43	0.5	290	11
CH1080-1	46	10	7	48	-0.2	245	24
CH1080-3	32	6	5	26	-0.2	130	6
CH1080-5	38	11	11	45	-0.2	325	28
CH1080-7	35	8	4	36	-0.2	205	14
CH1080-9	33	9	5	39	-0.2	188	16
CH1080-11	37	8	6	33	-0.2	178	7
CH1080-13	54	7	4	37	-0.2	245	11
CH1080-15	37	9	5	35	-0.2	260	10
CH1080-17	37	8	6	36	0.2	265	3
CH1080-19	35	8	7	28	0.3	176	7
CH1080-21	30	7	7	31	-0.2	205	6
CH1081-1	47	6	4	30	0.3	225	14
CH1081-3	38	7	8	34	-0.2	194	8
CH1081-5	35	6	5	32	0.2	184	20
CH1081-7	42	6	6	38	-0.2	146	17
CH1081-9	26	10	5	24	-0.2	102	8
CH1081-11	23	11	4	35	-0.2	290	10
CH1082-1	35	7	7	35	-0.2	240	7
CH1082-3	38	8	6	41	-0.2	400	12
CH1082-5	34	7	6	25	0.2	205	12
CH1082-7	34	7	6	32	-0.2	225	7
CH1082-9	46	5	5	41	-0.2	300	7
CH300-1	52	6	6	72	-0.2	425	4
CH300-3	118	7	9	290	0.7	490	-2
CH300-5	64	8	9	128	0.8	350	-2
CH300-7	60	6	12	270	0.2	580	-2
CH300-9	89	5	19	310	0.2	475	2
CH300-11	76	7	14	148	0.5	2000	61
CH300-13	172	9	17	124	0.5	485	17
CH300-17	44	4	17	93	-0.2	1080	15
CH300-19	54	7	9	60	0.3	265	-2
CH300-21	100	12	12	89	0.6	650	4
CH300-23	132	10	12	106	0.3	445	4
CH300-25	72	10	12	75	0.5	530	14
CH300-27	65	8	12	87	0.4	280	5
CH300-29	87	10	12	112	0.4	470	5
CH300-31	43	4	10	81	0.2	785	4
CH300-33	55	8	14	67	0.4	560	9

Report of Chemical Analysis

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Project Island Copper Recon. Submitted by J. Fleming
Charge: Island Cu Geo. Minerals Lab No. 86- 620

SAMPLE ID	ppm CU	ppm MO	ppm PB	ppm ZN	ppm AG	ppm MN	ppm AS
CH300-35	58	7	10	100	0.2	1190	8
CH300-37	76	8	12	66	0.3	285	-2
CH300-39	91	8	10	78	0.3	345	-2
CH800-1	68	7	14	49	-0.2	495	5
CH800-3	79	8	2	63	-0.2	300	4
CH800-5	63	7	4	39	0.2	200	4
CH800-7	55	7	5	47	-0.2	265	-2
CH800-9	66	8	29	80	0.3	420	-2
CH800-11	89	8	16	58	-0.2	325	4
CH800-13	39	7	3	31	0.2	210	-2
CH800-15	158	10	31	56	0.3	745	14
CH800-17	27	7	13	23	0.2	152	7
CH800-19	34	8	4	46	0.2	235	-2
CH900-1	49	8	6	43	-0.2	385	-2
CH900-3	51	6	8	40	0.3	380	2
CH900-5	43	7	11	39	-0.2	280	-2
WNMAIN-1	58	6	9	55	-0.2	255	-2
WNMAIN-3	40	5	8	56	-0.2	260	-2
WNMAIN-5	67	5	9	49	0.2	220	6
WNMAIN-7	47	4	4	50	0.3	136	4
WNMAIN-9	43	7	5	51	0.3	136	4
WNMAIN-11	45	8	7	96	-0.2	360	2
WNMAIN-13	49	7	7	69	0.2	230	8
WNMAIN-15	34	6	8	58	-0.2	215	8
WNMAIN-17	48	5	8	42	-0.2	164	-2
WNMAIN-19	33	7	7	54	0.4	150	-2
WNMAIN-21	57	5	6	60	-0.2	270	-2
WNMAIN-23	60	5	4	53	0.2	166	20
WNMAIN-25	320	18	94	255	1.3	300	12
WNMAIN-27	106	5	9	112	0.2	245	10
WNMAIN-29	69	6	8	64	0.2	210	3
WNMAIN-31	79	5	7	78	-0.2	285	7
WNMAIN-33	40	6	8	45	0.3	154	-2
WNMAIN-35	23	7	4	32	-0.2	215	-2
WNMAIN-37	68	5	4	53	-0.2	390	-2
WNMAIN-39	28	5	3	42	0.2	200	-2
WNMAIN-41	42	6	7	66	-0.2	315	8
WNMAIN-43	52	5	5	59	0.4	280	9
WNMAIN-45	38	7	3	61	0.3	360	-2
WNMAIN-47	43	6	5	42	0.6	500	5
WNMAIN-49	60	6	5	72	0.6	990	11
WNMAIN-51	70	6	5	74	0.3	295	17
WNMAIN-53	35	4	3	48	0.3	215	10
WNMAIN-55	35	6	4	63	-0.2	275	6
WNMAIN-57	47	5	4	61	-0.2	260	7
WNMAIN-59	59	6	7	73	-0.2	255	6
WNMAIN-61	34	4	4	51	0.3	200	-2

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SAMPLE ID	ppm CU	ppm MO	ppm PB	ppm ZN	ppm AG	ppm MN	ppm AS
WNMAIN-63	38	5	5	38	-0.2	158	-2
WNMAIN-65	39	5	3	61	-0.2	450	19
WNMAIN-67	27	4	3	37	-0.2	146	3
WNMAIN-69	32	6	6	41	-0.2	148	-2
WNMAIN-71	41	5	6	42	-0.2	205	-2
WNMAIN-73	49	5	4	56	0.3	225	13
WNMAIN-75	52	6	-2	57	0.5	220	-2
WNMAIN-77	42	6	5	59	0.3	505	7
WNMAIN-79	25	5	2	45	-0.2	144	-2
WNMAIN-81	45	6	9	48	0.4	178	-2
WNMAIN-83	46	5	4	49	-0.2	240	2
WNMAIN-85	39	5	2	43	-0.2	142	-2
WNMAIN-87	40	7	7	43	0.6	215	6
WNMAIN-89	52	5	3	51	-0.2	186	4
WNMAIN-91	56	5	5	47	-0.2	295	-2
WNMAIN-93	36	6	6	62	0.3	245	5
WNMAIN-95	58	8	6	63	-0.2	245	3
WNMAIN-97	28	7	6	38	-0.2	174	-2
WNMAIN-99	29	6	7	29	-0.2	94	6
WNMAIN-101	22	5	3	37	-0.2	168	4
WNMAIN-103	72	6	6	73	-0.2	385	5
WNMAIN-105	49	5	4	48	-0.2	370	7
WNMAIN-107	43	6	4	47	0.3	205	6
WNMAIN-109	52	3	6	85	-0.2	290	2
WNMAIN-111	46	6	11	38	0.5	122	-2
WNMAIN-113	75	7	9	80	0.4	250	8
WNMAIN-115	57	5	8	60	0.3	194	13
WNMAIN-117	66	6	24	186	-0.2	390	25
WNMAIN-119	28	4	6	56	-0.2	495	-2
WNMAIN-121	59	8	20	118	0.5	2050	14
WNMAIN-123	66	8	13	74	0.8	460	-2
WNMAIN-125	30	5	8	54	0.2	230	-2
WNMAIN-127	38	6	10	54	0.3	315	-2
WNMAIN-129	57	4	5	63	0.2	225	3
WNMAIN-131	45	6	3	59	-0.2	295	11
WNMAIN-133	43	6	6	49	0.3	290	-2
WNMAIN-135	73	7	6	52	-0.2	220	-2
WNMAIN-137	18	-2	2	38	-0.2	95	11
WNMAIN-139	36	6	4	74	-0.2	1770	15
WNMAIN-141	50	5	5	69	-0.2	355	3
WNMAIN-143	52	7	10	83	0.3	240	-2
WNMAIN-145	29	5	9	46	-0.2	270	-2
WNMAIN-147	30	6	9	57	0.4	230	2
WNMAIN-149	58	7	3	51	-0.2	134	5
WNMAIN-151	59	6	4	74	-0.2	315	10
WNMAIN-153	118	5	9	78	0.7	275	11
WNMAIN-155	48	6	7	77	-0.2	260	2

Report of Chemical Analysis

XTAH International Inc. Minerals Laboratory
1190 Bordeaux Drive
Sunnyvale, California 94089
Phone: (408) 744-1600

Project Island Copper Recon. Submitted by J. Fleming
Charge: Island Cu Geo. Minerals Lab No. 86- 620

SAMPLE ID	ppm CU	ppm MO	ppm PB	ppm ZN	ppm AG	ppm MN	ppm AS
WNMAIN-157	45	7	8	77	-0.2	245	7
WNMAIN-159	27	6	6	46	-0.2	200	3
WNMAIN-161	59	5	4	92	-0.2	340	5
WNMAIN-163	62	5	8	85	-0.2	325	12
WNMAIN-165	69	5	8	77	0.2	280	8
WNMAIN-167	43	6	4	48	-0.2	210	2
WNMAIN-169	64	5	5	80	0.5	490	5
WNMAIN-171	53	8	6	76	0.3	310	-2
WNMAIN-173	56	6	8	71	-0.2	275	14
WN100-1	54	8	8	48	-0.2	255	6
WN100-3	72	9	9	55	0.2	215	4
WN100-5	84	9	10	58	0.2	400	15
WN100-7	53	6	9	57	0.2	840	4
WN100-9	52	7	7	55	-0.2	260	4
WN100-11	44	8	6	44	0.3	220	3
WN100-13	68	8	8	58	0.3	425	-2
WN100-15	56	7	5	41	0.3	188	-2
WN100-17	33	7	4	42	0.3	215	4
WN100-19	33	7	6	41	0.3	345	7
WN100-21	29	8	6	50	0.2	600	-2
WN101-1	48	5	4	68	-0.2	535	-2
WN101-3	36	6	3	59	0.5	445	-2
WN101-5	51	5	5	68	0.3	295	3
WN101-7	35	5	5	59	-0.2	230	5
WN101-9	28	5	3	36	-0.2	205	-2
WN101-11	28	8	5	32	0.3	210	-2
WN101-13	29	5	4	50	0.3	345	-2
WN101-15	31	9	5	51	0.2	445	-2
WN101-17	24	7	6	33	0.2	235	-2
WN101-19	35	3	5	41	-0.2	92	-2
WN101-21	54	7	6	51	0.3	250	-2
WN101-23	41	6	7	41	-0.2	370	8
WN400-1	46	5	5	48	0.2	245	-2
WN400-3	30	4	4	37	-0.2	198	3
WN400-5	52	4	4	50	-0.2	390	5
WN400-7	45	5	4	47	-0.2	260	-2
WN400-9	51	4	4	53	0.3	225	3
WN400-11	66	6	5	70	-0.2	380	9
WN400-13	52	5	3	57	0.4	235	-2
WN400-15	45	3	4	55	0.3	420	10
WN400-17	25	4	4	40	-0.2	960	2
WN400-19	24	6	4	40	0.2	196	-2
WN400-21	42	5	7	65	-0.2	450	-2
WN400-23	46	5	6	72	0.3	845	-2
WN400-25	33	6	5	57	-0.2	995	-2
WN700-1	38	6	5	52	0.2	275	6
WN700-3	66	6	5	57	-0.2	220	6

Report of Chemical Analysis

UTAH International Inc. Mineral Laboratory
1190 Bordeaux Drive
Sunnyvale, California 94089
Phone: (408) 734-1700

Project Island Copper Recon. Submitted by J. Fleming
Charge: Island Cu Geo. Minerals Lab No. 86- 620

SAMPLE ID	ppm CU	ppm MO	ppm PB	ppm ZN	ppm AG	ppm MN	ppm AS
WN700-5	39	6	4	47	0.4	250	4
WN700-7	41	6	4	49	0.3	250	-2
WN700-9	65	6	14	87	0.3	410	13
WN700-11	71	5	12	66	-0.2	330	9
WN700-13	59	4	9	60	0.4	245	8
WN700-15	40	6	6	43	0.2	186	6
WN700-17	40	4	7	57	-0.2	270	4
WN700-19	54	5	10	61	-0.2	200	13
WN700-21	41	6	6	38	0.3	150	3
WN700-23	52	6	5	69	0.3	325	3
WN700-25	26	6	8	37	0.2	210	-2
WN700-27	34	6	5	46	-0.2	160	-2
WN700-29	73	7	16	194	-0.2	720	8
WN700-31	46	6	5	64	-0.2	240	6
WN700-33	45	6	4	54	0.2	200	2
WN700-35	49	6	8	100	0.4	410	5
WN700-37	46	4	9	64	0.3	450	5
WN700-39	33	6	7	63	-0.2	285	7
WN700-41	55	6	6	61	0.3	260	11
WN700-43	39	5	6	62	0.3	620	8
WN700-45	48	6	5	60	0.2	360	6
WN700-47	34	6	7	51	0.3	365	5
WN700-49	28	5	7	44	-0.2	560	-2
WN700-51	26	7	7	37	-0.2	200	4
WN730-1	56	7	4	91	0.4	1600	7
WN730-3	62	4	5	61	0.5	305	-2
WN730-5	32	5	5	62	-0.2	265	21
WN730-7	40	6	7	60	0.2	290	14
WN730-9	64	5	5	66	-0.2	250	9
WN730-11	35	5	3	52	0.2	245	3
WN730-13	33	3	5	47	0.3	370	-2
WN730-15	108	5	18	200	0.2	1570	6
WN730-17	26	5	5	52	0.3	1120	8
WN800-1	91	4	4	72	-0.2	605	5
WN800-3	53	4	4	53	0.5	260	2
WN800-5	128	6	10	74	0.4	640	5
WN800-7	57	6	7	77	0.5	2600	-2
WN800-9	57	4	6	71	-0.2	420	-2
WN800-11	46	4	7	55	-0.2	255	-2
WN800-13	30	5	7	57	0.2	330	6
WN800-15	33	6	7	68	0.3	230	2
WN800-17	39	5	11	48	0.3	166	14
WN800-19	59	5	14	120	0.3	370	-2
WN800-21	58	7	23	92	0.3	480	5
WN800-23	45	6	9	74	0.3	270	3
WN800-25	50	7	14	92	0.6	1980	3
WN800-29	65	6	21	91	-0.2	405	4

Report of Chemical Analysis

UTAH International Inc. Minerals Laboratory
1190 Bordeaux Drive
Sunnyvale, California 94089
Phone: (408) 744-1668

Project Island Copper Recon. Submitted by J. Fleming
Charge: Island Cu Geo. Minerals Lab No. 86- 620

SAMPLE ID	ppm CU	ppm MO	ppm PB	ppm ZN	ppm AG	ppm MN	ppm AS
WN800-31	30	8	11	39	0.4	190	-2
WN800-33	40	6	5	61	0.5	785	11
WN800-35	43	5	25	96	-0.2	325	5
WN800-37	35	5	9	93	0.3	335	-2
WN800-39	56	5	24	83	0.3	395	4
WN800-41	43	6	9	61	0.8	370	7
WN800-43	42	6	7	66	0.9	350	31
WN800-45	106	5	12	134	0.4	910	10
WN800-47	49	5	3	69	0.3	405	4
WN810-1	14	5	10	46	-0.2	430	4
WN810-3	67	4	7	69	-0.2	350	7
WN810-5	36	7	7	50	0.2	235	-2
WN810-7	32	5	5	53	0.3	270	11
WN810-9	45	4	7	62	0.3	190	-2
WN810-11	34	5	7	62	0.4	184	-2
WN810-13	39	7	10	60	-0.2	390	-2
WN810-15	27	5	6	59	0.3	820	2
WN810-17	49	6	12	81	-0.2	350	-2
WN810-19	34	6	10	51	0.3	790	-2
WN810-21	57	5	6	93	0.4	650	31
WN810-23	23	6	6	46	0.3	335	3
WN810-25	10	6	5	31	0.2	295	-2
WN810-27	27	6	11	93	0.3	685	-2
WN820-1	56	5	5	57	0.2	655	7
WN820-3	48	6	10	55	0.2	520	-2
WN820-5	66	8	10	94	-0.2	320	6
WN820-7	35	6	8	60	0.4	280	15
WN820-9	77	5	6	83	0.3	365	5
WN820-11	12	4	6	30	-0.2	335	-2
WN820-13	35	7	13	70	0.3	635	-2
WN820-15	60	6	18	108	0.4	400	9
WN820-17	61	8	30	116	0.3	410	10
WN820-19	59	6	57	128	0.6	435	17
WN820-21	60	8	17	112	0.7	560	4
WN820-23	63	5	10	67	0.5	275	10
WN820-25	51	5	9	66	0.4	255	18
WN820-27	34	8	27	65	1.1	400	12
WN820-29	46	5	9	72	0.3	225	9
WN820-31	69	5	6	80	0.2	275	8
WN820-33	80	7	13	84	0.4	385	16
WN820-35	71	5	8	78	0.4	365	30
WN820-37	41	7	8	67	0.3	240	-2
WN840-1	18	14	9	54	0.5	260	48
WN840-3	51	5	4	68	0.4	320	8
WN840-5	37	6	5	48	0.4	196	9
WN840-7	77	8	45	182	2.2	525	3
WN840-9	59	7	7	87	0.4	1240	14

APPENDIX B
FIELD NOTES

CH300 Aug 20 1986 (1)

CH MAIN

STN	MAT	DEPTH	COLOR	CON	REM
0	A	12 SY	BK	H	L	
1	B	12 L	GO	L	L	Ditch
2	B	12 L	GO	L	H	"
3	B	14 L	LBR	H	H	"
4	A	20 L	BL	H	M	SWAMP
5	B	10 L	ROB	L	L	[illegible] 1/2
6	B	12 L	GB	H	L	LOT OF GARBAGE
7	B	10 L	GB	L	M	Ditch
8	AB	12 L	BBK	H	L	
9	BC	12 L	OG	L	L	
10	B	14 L	BR	H	L	SAWDY
11	BC	6 L	GB	H	L	Rocky
12	A	12 L	LBR	H	L	
13	B	14 L	OB	M	L	
14	B	12 L	OR	M	L	Rocky
15	NO SAMPLE					SWAMP
16	C	12 L	BK	H	L	Garbage
17	A	12 SY	BK	H	M	Rocky Log-Ga Trace
18	A	18 SY	BK	H	L	
19	A	14 SY	BK	H	L	
20	B	8 L	OR	L	L	
21	B	10 L	OR	L	L	
22	B	10 L	OR	M	L	
23	B	12 L	OB	H	L	

CH 300 Aug 20, 1986 (2)

STN	MAT	DEPTH	COLOR	CON	REM
24	B	10 L	OB	L	L	
25	B	10 L	OR	M	L	-
26	B	12 L	OB	H	L	-
27	B	12 L	OB	H	L	
28	B	10 L	OB	L	H	
29	B	8 L	OR	H	L	
30	B	10 L	Bog	M	L	
31	A	16 SY	BK	H	L	
32	B	14 L	GOB	H	M	
33	B	14 L	OB	H	L	
34	B	10 L	OL	M	L	
35	B	10 L	OB	M	L	
36	B	8 S	OR	L	L	
37	B	12 S	OB	M	L	
38	B	10 S	RO	M	L	Bag
39	B	8 S	OR	H	M	
40	B	10 S	OR	H	M	

CHANNEL 16 Aug 28/86

STN	HOR	DEP	TOP	CA	DAG	CLY	REMARKS
0	B	10	N	BR	M	L	spwy beside
1	B	12	N	OB	M	L	
2	B	10	N	OR	L	L	
3	B	6	NE	RO	L	M	
4	B	12	NE	RO	L	L	
5	B	10	NE	RO	L	L	
6	B	10	NE	OR	L	L	
7	B	10	NE	OR	L	L	Post with ribbon
8	B	12	NE	RO	L	L	
9	B	14	NE	OB	M	M	
10	B	10	E	OR	L	L	
11	B	12	SE	OB	M	M	
12	B	16	SE	GOB	L	M	ROAD
13	B	14	N	OB	L	L	CREEK
14	B	10	NE	OR	L	L	
15	B	10	E	RO	L	L	
16	A	16	E	BK	H	L	
17	B	10	NE	RO	L	L	
18	B	8	NE	RO	L	L	
19	B	10	NE	OR	L	L	
20	B	12	NE	RO	L	L	
21	B	12	NE	OR	L	L	
22	B	16	NE	BR	H	L	
23	B	8	E	GOB	M	L	Creek crossing
24	B	10	E	RO	L	L	

CHANNEL Aug 28/86

STN	HOR	DEP	TOP	CA	DAG	CLY	REMARKS
25	B	10	E	OB	M	M	
26	B	12	E	OB	M	L	
27	B	12	SE	OR	L	M	
28	B	10	SE	OB	L	L	
29	B	12	SE	GB	L	H	
30	A	14	S	BK	H	M	CH1000
31	A	12	E	GYB	M	L	SANDY
32	B	10	NE	OR	L	L	
33	B	14	E	OR	L	L	
34	B	10	E	GB	L	L	ROCKY
35	B	10	E	OB	M	L	
36	B	12	E	RO	L	L	
37	B	12	E	ROG	L	L	
38	B	10	S	RO	L	L	
39	B	10	S	ROB	L	L	
40	A	20	SW	BK	H	L	
41	B	10	S	GB	L	L	WFP sign steel cable.
42	B	10	S	RO	L	L	steel cable.
43	B	10	S	OB	M	L	
44	B	12	N	OR	L	L	
45	B	10	N	OB	L	L	
46	B	10	N	OB	L	L	
47	B	14	N	RO	L	L	
48	B	10	N	OB	L	L	
49	B	10	SE	OB	L	L	Junction of CH900 CH800

CHMAIN aug 2836

STN	HOR	DEP	TOP	COL	ORG	CLY	REMARKS
50	B	10	S	RO	L	L	
51	B	10	S	RO	L	L	
52	B	8	S	OR	L	L	
53	B	12	S	OG	L	M	
54	B	14	S	GBR	M	M	
55	B	12	S	GOB	M	L	
56	B	10	S	RO	L	L	
57	B	8	S	RO	L	L	
58	B	10	NE	GB	L	L	
59	B	10	NE	RO	L	L	
60	B	12	NE	ROG	L	L	
61	B	12	E	RO	L	L	
62	B	10	E	OB	L	L	
63	B	10	SE	OB	L	L	
64	B	10	SE	OR	L	M	
65	B	12	SE	OR	L	M	
66	B	12	E	OR	L	L	
67	B	10	E	ROG	L	M	
68	B	12	E	RB	L	L	
69	B	14	E	OB	M	L	white door
70	B	10	E	RO	L	L	
71	B	12	E	RO	L	L	
72	B	8	SE	ROB	L	L	
73	B	10	SE	RO	L	L	
74	B	16	SE	BG	H	H	
75							

CH300 aug 26/86.

STN	HOR	DEP	TOP	COL	ORG	CLY	REMARKS	Coiled Cable
0	B	10	L	OR	L	L		
1	B	10	E	GO	L	L		
2	B	8	E	OR	L	L		
3	B	12	E	OR	M	L		
4	B	10	SE	RO	L	L		
5	B	10	SE	OR	M	L		
6	B	12	SE	RO	L	L		
7	B	10	L	ROB	L	L		
8	B	10	SE	GO	L	L	Rocky	
9	B	8	SE	RO	L	L		
10	B	8	SE	BOG	M	L		
11	B	12	W	OR	L	L		
12	B	14	W	OR	L	L		
13	B	12	E	OB	L	L		Steel Cable

CN 800 Aug 27, 86

SEN HUK DR. TOPOLOGY Records

14	B	10	S	OR	L	L	
15	B	10	L	GO	M	L	Rocky
16	B	10	L	Ro	L	L	
17	B	12	L	YOR	L	L	
18	B	12	S	OR	L	L	
19	B	10	S	Ro	L	L	
20	B	12	S	Ro	L	L	

CH900 Aug 26/86

0	B	10	SE	OR	L	L	
1	B	10	SE	OR	M	L	
2	B	12	SE	OR	L	L	Steel cable
3	B	14	SE	OB	M	L	
4	B	12	E	OB	H	L	
5 FINIS	B	12	L	OR	L	L	

CH 000 Aug 25, 1986

STN	COR	PERTUR	COL	ORG	CLY	REMARKS
0	B	12 C	OB	M	M	CH Main
1	B	10 E	R.B	L	L	
2	B	8 E	OG	L	L	50' off Quarry stacks Road
3	B	12 E	OB	L	L	Quarry
4	B	10 E	OB	L	L	Quarry ends Rocky
5	B	8 S	OR	L	L	
6	B	10 S	RO	L	L	
7	B	10 S	RO	M	L	
8	B	12 E	RO	L	L	
9	B	12 E	ROB	L	L	
10	B	10 S	OB	H	L	
11	B	8 E	RO	L	L	
12	B	8 S	Rob	M	L	Road Cmd 10
13	B	10 S	GOB	L	M	
14	B	8 S	ROB	L	L	
15	B	12 S	OR RP	H	L	
16	B	10 S	ROB	H	L	
17	B	12 S	OR	L	L	
18	B	14 S	GOB	M	M	
19	B	12 S	ROB	M	L	
20	B	10 S	OR	L	L	
21	B	8 S	RO	L	M	
22	B	14 S	OG	H	M	
23	B	12 S	OB	L	L	New Road?

CH 00 Aug 25, 1986

STN	COR	PERTUR	TOP	COL	ORG	CLY	REMARKS
24	B	10	S	OG	M	L	New Road?
25	B	10	S	OR	H	L	
26	B	12	S	OG	M	M	
27	B	14	S	OR	H	L	
28	B	10	S	GO	H	H	
29	BC	12	S	OR	M	L	
30	B	12	S	RO	M	L	
31	B	8	S	OG	H	L	
32	B	12	S	OB	M	L	
33	B	8	S	OG	L	L	Steel Rocky Cable
34	B	12	S	GOB	L	H	
35	B	14	S	OB	H	L	Steel Cable
36	AB	14	S	BR AB	M	M	Steel Gate Nearby
37	B	12	S	OR	H	L	
38	A	12	S	GBE	M	H	
39	B	8	S	OR	H	L	
40	B	10	S	BR	M	L	
41	B	12	S	BR	H	L	
42	BC	10	S	OG	L	L	
43	B	12	S	GO	M	L	Rocky
44	B	10	S	OR	M	L	
45	B	10	S	OB	M	L	
46	B	10	S	RO	M	L	
47	B	10	S	OB	M	L	

CH 1000 Aug 25, 1980

STN	TOR	DEP	TOP	COL	ORG	CLY	REMARKS
48	A	LL	SY	BK	N	H	CH 1000
49	B	8	L	OB	H	L	
50	B	8	L	OR	L	L	
51	B	10	L	OB	H	L	STEEL CABLE
52	A	20	L	BK	M	H	
53	B	12	L	GB	L	L	
54	B	12	L	OB	L	L	
55	B	10	L	OR	L	L	
56	B	8	L	OG	M	H	Rocky
57	B	12	L	RO	L	L	
58	B	9	L	RO	H	L	
59	AB	12	N	OB	H	L	Quarry
60	B	6	N	GR	L	L	Quarry
61	B	12	N	BK	M	L	Quarry
62	B	10	N	RO	H	L	
63	B	12	N	RO	L	L	Rocky
64	B	10	N	RB	L	M	
65	B	12	N	RO	L	L	
66	B	14	N	GO	H	H	
67	B	12	N	RO	L	L	Rocky
68	B	10	N	OR	M	L	
69	B	10	N	RO	M	L	
70	B	12	N	RO	L	L	
71	B	10	N	RO	L	L	

CH 1000 Aug 26/86

STN	TOR	DEP	TOP	COL	ORG	CLY	REMARKS
72	B	8	N	OB	M	L	
73	B	12	N	OR	M	M	
74	B	10	N	GB	M	L	
75	B	10	N	OR	L	L	
76	B	8	N	OB	L	L	
77	B	10	N	OB	L	L	survey ditch
78	B	12	N	OR	L	L	gasoline/oil ditch/cable
79	AB	18	S	GB	M	H	Spur on road
80	B	8	S	OB	H	L	
81	B	10	N	RO	L	L	
82	B	12	N	OB	H	L	
83	B	12	N	RO	L	L	steel cable on roadside
84	B	10	S	RO	L	L	
85	AB	20	L	GB	M	M	question of CH 1010?
86	A	22	SE	BK	H	M	Steel cable
87	B	14	N	OR	L	L	
88	B	12	SE	OR	L	L	ROCKY
89	B	12	SE	OR	L	L	steel cable
90	B	10	SE	OR	L	L	
91	B	10	SE	OR	L	L	Steel cable
92	B	8	SE	OR	L	L	
93	B	12	SE	OR	L	L	
94	B	12	S	OR	L	L	
95	B	12	S	OR	M	L	
96	B	10	S	RO	M	L	

CH 1010 Aug 26/86

STN	HOR	DEP	TOP	COLOR	ORG	CLY	REMARKS
97	B	10	S	OR	L	L	
98	B	12	T	OR	M	L	
99	B	10	S	OR	L	L	
100	B	12	S	OGY	L	M	ROAD TO LEFT
101	B	14	S	OR	L	L	
102	B	12	S	OR	L	L	
103	B	12	E	OR	L	L	SHORT ROAD TO RIGHT
104	B	10	NE	RO	L	L	
105	B	10	NE	OR	L	L	
106	B	12	NE	OR	M	L	Steel Cable
107	B	8	SW	OB	L	L	
108	B	8	H	OR	L	L	Steel Drum close
109	B	12	U	RO	L	L	
110	B	10	H	RO	M	L	Steel Cable
111	B	10	N	OR	L	L	
FIN							

CH 1010 Aug. 26/86

STN	HOR	DEP	TOP	COLOR	ORG	CLY	REMARKS
0	AB	12	S	OB	M	L	
1	B	10	I	OR	L	L	
2	B	12	N	OR	L	L	
3	B	8	SE	RO	L	L	ROCKS
4	B	8	E	OR	L	L	ROCKS
5	B	12	L	RO	L	L	
6	B	10	NE	OR	M	L	
7	B	12	NE	OR	M	L	
FIN	S						

CH1040 Aug 22, 1986

STN	HOR	DEP	TOP	COL	ORG	CLY	REMARKS
0	B	8	S	OB	L	L	CH1040 DTL
1	B	12	L	OB	H	L	
2	B	8	L	OB	L	L	
3	B	10	L	OR	L	L	Rocky
4	B	10	L	OB	H	L	
5	B	8	L	OB	L	L	
6	A	90	SQ	BK	H	L	STEEL CABLE
7	A	18	SQ	BK	H	M	
8	B	8	S	OR	L	L	
9	B	10	S	RO	H	L	
10	B	10	S	OR	L	L	
11	B	10	S	OR	L	L	
12	B	12	S	OG	H	L	
FINIS							

CH1080 Aug 22, 1986

STN	HOR	DEP	TOP	COL	ORG	CLY	REMARKS
0	B	10	L	OR	L	L	Rocky
1	B	8	L	RO	L	L	
2	B	10	L	OR	L	M	
3	B	12	W	OR	M	L	
4	B	10	W	RO	L	M	STEEL CABLE
5	B	6	W	OR	L	L	ROCKY CHANNEL NAME
6	B	12	W	ROB	L	L	
7	B	8	W	RO	L	L	Rocky
8	B	12	W	OB	L	L	
9	B	8	W	RO	L	L	
10	B	8	W	OR	L	L	
11	B	12	W	OR	L	H	
12	AB	14	W	GBK	L	H	Rocky Dry
13	B	8	S	RO	M	L	
14	B	10	S	OB	L	L	CH 1062
15	B	10	T	RO	M	L	
16	B	12	L	OB	L	L	
17	B	14	L	RO	H	L	
18	B	12	L	YOB	H	L	
19	B	12	L	BO	H	L	
20	AB	20	L	OB	N	L	
21	B	8	L	OB	L	L	SANDY
FINIS							

CH 1082 Aug 22, 1986

STN	HOR	DEP	TOP	COL	ORG	CLY	REMARKS
0	B	10	S	OR	H	L	CH 1080
1	B	12	S	OR	M	L	Rocky
2	B	8	S	ORH		L	SPUR IN BOG
3	B	10	L	OB	L	L	
4	B	12	L	OB	L	L	
5	B	8	L	YO	M	L	
6	B	8	L	ROB	H	L	Rocky
7	B	10	L	GOB	L	M	
8	B	12	L	ROG	M	M	
9	B	10	L	OR	L	L	
10	B	10	L	OR	L	L	Rocky
FINIS							

CH 1081 Aug 22, 1986.

STN	HOR	DEP	TOP	COL	ORG	CLY	REMARKS
0	A	16	Sy	BK	H	M	CH 1000
1	B	6	S	OR	L	L	Rocky
2	A	20	Sy	BK	H	L	
3	B	10	S	OB	M	M	
4	B	12	S	YO	L	L	
5	B	10	S	RO	L	L	
6	B	8	S	Rob	L	L	
7	B	8	S	OR	L	L	
8	A	20	Sy	BK	H	L	
9	A	20	SY	BK	H	M	
10	B	14	L	OR	H	L	
11	B	8	L	OB	H	L	Rocky STEEL CABLE
12	B	10	L	YO	H		Rocky
FINIS							

WN MAIN ① Aug 1984

STN	HOR	DEP	TOP	COL	ORG	CLY	REMARKS
0	B	B	L	OR	L	L	sample on right side
1	B	12	L	OR	M	L	ROCKY
2	B	6	L	OB	L	L	" "
3	B	8	W	OR	L	L	
4	B	6	W	OR	L	L	
5	B	10	W	OR	L	L	ROCKY
6	B	8	W	RO	L	L	
7	B	14	W	OB	L	L	
8	B	8	L	OR	L	L	
9	B	10	L	OR	M	L	
10	B	14	E	OR	M	L	
11	B	10	E	ROB	L	L	ROCKY
12	B	8	E	OR	L	L	
13	B	12	E	RO	M	L	
14	AB	10	E	OB	M	L	Stone @ water level
15	B	10	L	OR	L	L	
16	B	12	L	OB	L	L	
17	B	18	L	OR	L	M	
18	B	12	L	OR	L	L	
19	B	14	L	OR	L	L	
20	B	12	L	OR	M	L	
21	B	10	L	OR	L	L	
22	B	10	L	RA	L	L	WN 100
23	B	12	L	OR	L	L	Above swamp
24	A	14	Sy	Bk	H	L	S Ditch swamp

WN MAIN ② Aug 1984

STN	HOR	DEP	TOP	COL	ORG	CLY	REMARKS
25	B	6	L	RO	L	L	ROCKY
26	B	8	L	OR	L	L	
27	B	10	W	RO	L	L	
28	B	10	W	RO	L	L	
29	B	8	L	OR	M	L	
30	B	12	L	OB	M	L	
31	B	10	L	OR	L	L	
32	B	14	L	OR	M	L	
33	B	12	L	RO	M	L	
34	B	10	L	OR	L	L	ROCKY
35	B	6	W	OR	H	L	CREEK BED
36	B	6	L	OR	L	L	ROAD TO RIGHT
37	B	8	L	YO	L	L	SILT SPILL
38	B	10	L	GOB	M	L	" "
39	B	6	L	RO	L	L	
40	B	6	SW	RO	L	L	
41	B	10	SW	RO	L	L	ROCKY
42	B	10	S	RO	L	L	
43	B	12	S	RO	L	L	
44	B	6	S	RO	L	L	RAVINE ON SIDE
45	B	8	S	OR	L	L	" "
46	B	6	S	OR	L	L	ROCK QUARRY
47	B	8	S	OR	L	L	
48	B	6	SW	RO	L	L	
49	B	6	SW	RO	L	L	

SEN	HOR	DEP	TOP	COL	ORG	CLY	REM
50	B	10	S	RO	L	L	
51	B	12	S	RO	L	L	
52	B	10	SW	RO	L	L	
53	B	8	SW	RO	L	L	
54	B	10	SW	RO	L	L	
55	B	6	SW	RO	L	L	
56	B	8	S	RO	L	L	
57	B	10	S	RO	L	L	
58	B	6	S	RO	L	L	
59	B	12	S	RO	L	L	
60	B	10	L	OG	L	L	
61	B	6	L	ROB	L	L	
62	B	8	L	RO	L	L	
63	B	10	L	RO	M	L	Beaver Creek
64	B	12	SE	RO	M	L	
65	A	12	S	GY	H	L	& SANDY
66	A	14	SE	BR	H	L	
67	B	10	E	OR	L	L	
68	B	6	SE	OB	L	L	SANDY
69	A	14	SE	BK	H	L	
70	A	20	SE	BK	H	L	
71	B	8	SE	OR	L	L	
72	B	8	SE	OR	L	L	
73	B	10	SE	RO	M	L	
74	B	10	SE	OR	L	L	

SEN	HOR	DEP	TOP	COL	ORG	CLY	REM
75	B	6	SE	OR	M	L	
76	B	8	SE	OB	L	L	SANDY
77	B	6	SE	RO	L	L	
78	B	10	SE	OR	L	L	
79	B	10	SE	RO	L	L	
80	B	26	SE	OR	L	L	
81	B	8	SE	OR	M	L	
82	B	10	SE	OB	L	L	
83	B	10	SE	ROB	M	L	
84	B	10	SE	OR	L	L	
85	B	8	SE	RO	L	L	
86	B	10	SE	OB	L	L	
87	B	6	SE	OB	L	L	
88	B	20	S	GOB	L	L	
89	B	10	S	RO	L	L	
90	B	6	S	OR	L	L	deep cobble beat
91	B	6	S	OR	L	L	" "
92	B	8	SE	RO	L	L	" "
93	B	10	S	RO	L	L	WAN HOO
94	B	10	S	RO	L	L	ROCKY
95	B	8	S	RO	L	L	
96	B	8	S	ROB	M	L	
97	B	8	S	RO	L	L	
98	B	10	S	RO	L	L	
99	B	8	S	OB	M	L	DRY RIVER BED

WAN MAIN Aug 13/85

STN	HOR	DEP	TOP	COL	REG	CON	REMARKS
100	B	6	S	RD	L	L	
101	B	8	S	ROB	L	L	
102	B	8	S	ROB	L	L	
103	B	10	S	ORL	L	L	dry creek
104	B	12	S	OB	M	L	
105	AB	10	S	OB	M	L	

WAN MAIN Aug 14, 1985

STN	HOR	DEP	TOP	COL	REG	CON	REMARKS
106	B	10	S	RD	L	L	
107	B	14	S	YB	M	M	
108	B	8	S	BGD	L	L	Rocky
109	A	14	S	BK	H	L	Ditch
110	A	20	S	BK	H	L	ditch
111	B	10	S	OB	M	L	
112	B	8	S	GOB	L	L	Rocky
113	B	10	SE	OL	L	L	
114	B	8	SE	RD	L	L	
115	B	10	SE	RD	L	L	Rocky
116	B	12	SE	RD	L	L	
117	B	8	S	BOY	L	L	Rocky
118	B	14	S	OB	L	L	
119	A	14	SV	BK	H	L	Ditch VALLEY
120	A	16	SV	BK	H	M	STEEL CROSS
121	B	10	V	OR	L	L	
122	B	8	V	OB	L	L	W TOO Rocky SURVEY MARK
123	AB	8	V	OB	M	M	
124	A	22	SV	BK	H	L	Gas station in Ditch
125	A	18	SV	BK	H	L	Ditch
126	A	20	V	BK	H	L	Swampy
127	B	12	V	OL	L	L	70' To Rocky South
128	A	18	V	BK	H	L	Quarry To South
129	BG	24	V	GY	L	H	Ditch

WAN MAIN Aug 14, 1986

STN							
130	B	10	V	OB	M	H	Ditch
131	B	8	V	OR	L	L	Rocky
132	BC	6	V	GB	L	M	Ditch
133	B	10	V	OB	H	L	
134	B	8	V	RO	L	L	
135	B	10	V	OL	L	L	Rocky Cable
136	B	10	V	RO	L	L	Rocky
137	A	20	V	BK	H	L	Ditch
138	A	26	V	BK	H	L	
139	B	8	V	OR	M	L	CABLE WAN RDD
140	B	12	V	RO	L	L	
141	AB	12	V	BR	H	L	
142	A	18	V	BR	H	L	SWAMP
143	B	8	V	OB	M	L	
144	A	18	V	BK	H	M	swamp
145	A	12	SV V	BK	H	M	
146	A	16	SV V	BK	H	L	
147	A	20	V	Gy	M	H	
148	AD	22	V	Gy	M	H	ISTRICT CABLE
149	B	10	V	GR	L	L	
150	B	10	S	BG	L	L	
151	B	12	S	OB	L	L	SANDY
152	B	6	S	OR	L	L	L27566 22WAN
153	B	12	S	OB	M	H	

WAN MAIN Aug 14, 1986

STN							
154	B	10	S	OR	M	H	
155	B	8	S	OR	L	L	
156	B	14	S	GB	H	H	Rocky
157	B	12	S	RO	L	M	CABLE
158	B	8	S	OR	L	L	
159	B	10	S	OB	M	L	
160	B	12	S	GOB	M	H	Rocky
161	B	11	S	OR	L	L	
162	B	10	S	GOB	L	L	
163	B	8	S	OR	M	L	Rocky
164	B	8	S	OR	M	L	
165	B	12	S	OB	L	M	
166	B	8	S	OB	L	H	
167	B	10	S	RO	L	M	
168	B	8	S	Ro	M	H	
169	B	10	S	OB	H	L	
170	B	8	S	GR	A	M	
171	B	10	S	GOB	L	H	Rocky
172	B	10	S	GOB	L	H	
173	B	12	S	GOB	L	H	SE LOCATION LINE

WAN100 aug 21/86

0	B	12	N	OR	L	L	WANMA IN
1	B	10	NE	OR	L	L	
2	B	10	L	OR	L	L	
3	B	14	L	OR	L	L	
4	B	12	N	OR	L	L	
5	B	10	N	OR	M	L	
6	B	6	L	YQ	M	L	ROAD SPLITS IN THREE
7	B	10	L	OR	L	L	
8	B	10	L	OR	L	L	
9	B	14	L	OR	L	L	
10	B	8	W	OR	L	L	ROCKY
11	B	10	W	OR	L	L	
12	B	12	W	OB	M	L	
13	B	12	W	OR	L	L	
14	B	6	W	OR	L	L	
15	AB	14	W	OB	M	L	
16	AB	8	W	OB	M	L	
17	B	16	W	OB	L	L	
18	B	12	W	OB	L	L	
19	B	10	W	OB	M	L	see cake
20	B	10	E	OR	L	L	
21	B	12	E	OR	L	L	ROCKY
22	B	12	E	BR	M	L	ROCKY
FINIS							

WAN 101 Aug 14/1986

0	B	10	L	BR	M	L	
1	B	12	L	YO	L	L	Fenced in area (left)
2	B	8	S	OR	L	L	Rocky
3	B	8	S	OB	M	L	Rocky
4	B	8	S	OR	M	L	
5	B	8	S	OR	M	L	Rocky
6	B	6	N	OR	L	L	Rocky
7	B	10	N	OR	L	L	"
8	B	10	N	RO	L	L	"
9	B	12	E	OB	L	L	
10	B	8	E	OR	M	L	Rocky
11	B	8	L	RO	L	L	Rocky
12	A	20	SY	BR	H	L	
13	AB	12	W	OR	H	L	Rocky

W401 Aug 2? '86

STN	HOR	DEP	TOP	COLOR	ORG	CLY	REM.
14	B	12	W	OR	H	L	
15	B	16	SW	OB	L	L	
16	B	10	SW	OR	L	L	
17	B	12	S	OB	H	L	
18	B	16	S	OR	L	L	
19	A	20	SY	BK	H	L	
20	B	12	S	OR	L	L	
21	B	16	S	OB	M	L	
22	B	8	S	OR	L	L	ROCKY
23	B	6	S	OB	M	L	Rocky
24	B	8	N	YO	L	L	ROCKY
FINIS							

W4400 Aug 12, 1986

STN	HOR	DEPTH	TOP	COLOR	ORG	CLY	REMARKS
0	B	40	S	OC	L	L	
1	B	8	S	OR	L	L	
2	B	12	S	YOR	M	M	Rocky
3	B	10	S	OB	M	M	
4	B	12	W	OR	M	L	
5	B	8	W	OG	M	L	Rocky
6	B	14	W	OR	H	L	
7	AB	14	L	OB	H	L	
8	B	10	L	OG	M	L	
9	B	12	L	OB	M	L	STEEL CASE
10	AB	8	L	OB	H	L	
11	B	12	L	OR	M	L	
12	AB	10	L	OR	H	L	STEEL CASE
13	B	12	L	OC	L	L	
14	B	10	L	YO	L	L	
15	AB	14	L	OB	H	L	
16	AB	10	L	OB	H	L	
17	AB	12	L	OB	H	L	
18	AB	12	L	OB	H	L	
19	B	12	L	RO	H	L	
20	AC	8	L	OG	L	L	STEEL CASE
21	B	10	F	DR	L	L	
22	B	6	E	RO	L	L	
23	B	12	E	DK	H	M	

W... Aug 12/86

STN	HR	DEPTH	TOP	COL	ORG	CLY	REMARKS
24	A	8	L	20k	L	L	STEEL CABLE
25	BC	22	L	OB	L	L	

W 760 Aug 11/86

STN	HR	DEPTH	TOP	COL	ORG	CLY	REM.
0	B	8	S	OB	M	L	
1	B	12	SW	OB	M	L	
2	B	12	SW	OR	L	L	ROCKY
3	B	10	SW	OR	L	L	
4	A	16	SY	BK	H	L	
5	AB	8	SW	OB	H	L	
6	B	12	SW	OR	M	L	
7	B	8	SW	OR	H	L	
8	B	14	SW	RO	L	L	
9	B	8	SW	OR	L	L	
10	B	10	SW	RO	L	L	
11	B	10	SW	OR	L	L	

WN700 Aug 12, 1980

STN	IRR	DEP	RP	CEIL	DSC	CW	REMARKS
12	B	10	E	OR	M	L	
13	B	14	L	ROB	M	L	Rocky
14	B	12	E	ROB	H	L	
15	B	12	SE	OB	M	L	
16	AB	10	S	OB	M	L	
17	B	12	S	OR	L	L	
19	B	10	SW	OR	H	L	
19	B	10	W	RO	L	L	
20	B	8	W	TRO	L	L	
21	AB	18	W	GOB	M	L	Oil Filter
22	B	14	W	OB	M	L	
23	B	12	E	OR	L	L	
24	AB	14	W	[illegible]	H	L	
25	AB	14	W	OB	M	L	
26	B	6	W	OR	L	L	Rocky
27	B	14	S	OB	L	L	
28	AB	10	SE	OB	H	L	
29	B	6	SE	GO	L	L	Rocky Quarry
30	B	8	SE	OR	L	L	
31	B	10	SE	OR	M	L	
32	B	10	SE	OR	M	L	Rocky
33	B	12	SE	ROB	H	L	
34	B	10	SE	GOB	M	M	
35	B	10	S	GO	H	L	

WN700 Aug 12, 1980

SIN	HDR	DEP	TOP	CEL	DSC	CW	REMARKS
36	AB	14	S	OB	H	M	
37	R	8	S	OR	M	L	STEEL CABLE
38	B	8	S	RO	L	L	
39	B	8	SW	ROB	L	L	
40	B	10	SW	OR	L	L	STEEL CABLE
41	B	8	SW	OR	L	L	"
42	B	10	W	OB	H	L	"
43	B	8	S	OB	L	L	"
44	B	8	S	OB	L	L	
45	B	10	W	OR	L	L	
46	B	8	NW	BO	H	L	
47	B	6	NW	RO	L	L	
48	B	8	N	OR	L	L	
49	B	8	N	OR	M	L	
50	B	10	N	OR	L	L	
51	B	10	W	GO	M	L	
52	B	6	W	OR	H	L	

LW 730 Aug 11/86

STN		DIR	DEP	TOP	COL	ORG	CLY	REMARKS
0	B	6	S	RD	B	L	L	
1	B	10	S	RO	L	L		
2	B	14	S	OB	H	L		
3	B	12	S	OR	M	L		Rocky
4	B	12	S	OB	L	L		Rocky
5	B	8	S	OR	L	L		
6	B	12	S	OB	H	L		
7	B	10	S	OR	L	L		Rocky
8	AB	8	L	BR	H	L		
9	B	10	W	RD	M	L		
10	B	12	W	OR	M	L		
11	B	10	S	OR	L	L		
12	B	8	SE	OR	M	L		
13	A	18	SE	BR	H	L		
14	AB	8	SE	OB	H	L		
15	C	16	S	GY	H	L		RD CLY.
16	B	10	S	BR	M	L		
17	B	14	S	OB	H	L		

NAN 500 Aug 8/86

STN		DIR	DEP	TOP	COL	ORG	CLY	REMARKS
0	B	6	L	GD	M	L		STEEL CABLE
1	B	10	L	GD	L	L		CREEK
2	B	8	N	OR	M	L		
3	B	12	NE	OR	L	L		
4	B	10	N	OB	L	M		HILL
5	AB	12	N	OB	L	L		
6	B	14	T	OR	L	L		QUARRY
7	A	20	Sy	BK	H	L		SWAMP
8	B	10	W	OR	L	L		L2772E
9	AB	12	N	OB	L	L		
10	B	10	N	OR	L	L		
11	B	8	N	OB	L	L		
12	B	10	N	OR	H	L		
13	B	8	N	OB	H	L		
14	A	8	N	OR	L	L		
15	B	6	N	OR	L	L		WN 810
16	B	10	W	OR	H	L		
17	B	14	N	OB	L	L		
18	AB	16	N	BR	H	L		
19	B	10	N	OR	L	L		STEEL CABLE
20	AB	16	N	OB	H	L		"
21	B	8	N	OR	L	L		"
22	B	8	N	OB	M	L		
23	B	14	NW	OB	L	L		

WAN 800 Aug 8, 1986

SIN	AR	DIR	TOP	COL	DIR	CHG	REMARKS
24	B	10	W	OR	L	L	
25	B	12	W	OB	M	L	
26	B	8	W	OG	L	L	CABLE CROSSING
27	B	8	SW	OR	M	L	"
28	B	6	SW	OR	L	L	"
29	B	10	SW	OR	H	L	
30	B	10	SW	OR	L	L	
31	B	8	SW	OG	L	L	
32	B	6	S	OR	M	L	L27566 SIN 2243AL
33	B	9	S	OR	M	L	ROAD CROSSING RT 32
34	B	10	S	OR	L	L	
35	B	8	S	OR	L	L	
36	B	12	S	OG	M	L	SAW CREEK
37	B	10	S	OR	M	L	DEER RD RAILROAD SIDE
38	B	10	S	OR	M	L	
39	B	8	S	OR	L	L	
40	B	10	S	OR	L	L	ROCKY
41	B	10	S	OR	L	L	
42	B	8	S	OB	L	L	ROAD WAS 840
43	B	6	SE	OR	L	L	CABLES & WIRES
44	B	8	SE	OB	L	L	
45	B	6	S	OR	L	L	
46	B	8	NW	OR	L	L	
47	B	10	NW	OR	H	L	ROCKY
48	B	10	S	OR	M	L	

WN 810 Aug 8, 1986

SIN	AR	DIR	TOP	COL	DIR	CHG	REMARKS
0	B	10	W	OR	L	L	L2764E Cut Poles
1	B	10	NW	OR	L	L	
2	B	8	W	OB	M	L	ROCKY
3	B	12	W	OB	L	L	
4	B	14	W	OG	L	L	
5	B	8	W	OR	M	L	
6	B	12	T	OR	M	L	
7	AB	12	E	OB	H	L	ROCKY
9	B	8	V	OR	L	L	
9	B	12	W	GOB	L	L	
10	B	8	T	OR	L	L	
11	B	10	N	GOB	M	L	
12	B	8	N	OR	L	L	SAG
13	B	8	N	OB	M	L	
14	B	10	NW	OR	H	L	
15	AB	12	W	OB	H	L	
16	B	10	W	GO	H	L	
17	OR	14	W	OR	M	L	
18	B	8	T	OR	L	L	SURVEY MARK SO NW
19	B	10	T	OR	L	L	L2772E
20	B	10	E	OR	H	L	ROCKY
21	B	12	L	OR	L	L	ROCKY
22	B	10	L	GOB	H	L	ROCKY
23	D	8	W	OR	L	L	

CON 810 Aug 8/1980

STN	HOR	DEP	TOP	REMARKS
24	B	8	W	LOG L STAKE
25	B	12	I	ORN L L 2780E
26	B	10	T	GOB M M

W820 ① Aug. 11/86

STN	HOR	DEP	TOP	COLOUR	CLASS	CL	REM
0	B	10	S	OR	M	L	ROCKY
1	B	8	S	OR	M	L	
2	B	12	N	RO	L	L	
3	B	10	T	OB	M	L	
4	B	10	W	RO	L	L	
5	B	12	N	RD	L	L	
6	B	8	W	RO	L	L	ROCKY
7	B	10	W	RO	L	L	
8	B	12	W	RO	L	L	ROCKY
9	B	8	SW	RO	L	L	
10	B	10	SW	OB	M	L	LAFARGE SURVEY POST #2
11	B	14	W	OB	M	L	ROCKY
12	B	10	W	OR	M	L	ROCKY
13	B	10	NW	OB	M	L	ROCKS
14	B	10	NW	OB	L	L	
15	B	12	NW	RO	L	L	
16	B	8	NW	OR	L	L	
17	B	10	NW	RO	L	L	
18	B	14	NW	OB	M	L	
19	B	10	NW	OB	M	L	
20	B	10	NW	RO	L	L	ROCKY
21	B	8	NW	RO	L	L	
22	B	10	NW	OR	L	L	
23	B	10	NW	RO	L	L	
24	B	12	NW	OR	L	L	

W820 (2)

STN							
25	B	6	W	OR	L	L	
26	B	10	W	RO	L	L	
27	B	8	W	RO	L	L	
28	B	6	W	RO	M	L	
29	B	8	W	RO	L	L	
30	B	10	SW	OR	L	L	
31	B	8	S	OB	L	L	
32	B	10	S	ROB	L	L	
33	B	10	SW	OR	L	L	
34	B	8	S	OB	L	L	
35	B	6	S	YO	L	L	ROCKY
36	B	10	SW	OR	M	L	
37	B	8	S	RO	L	L	
38	B	8	W	OR	L	L	ROCKY

WAN 840 Aug 11/06

STN							
0	B	10	S	OR	L	L	
1	B	10	S	OR	M	L	ROCKY
2	B	8	E	RO	H	L	
3	B	10	E	RO	M	L	
4	B	10	SE	OG	L	L	ROCKY
5	B	6	S	OR	M	L	ROCKY
6	B	10	S	RO	L	L	
7	B	6	S	RO	L	L	ROCKY
8	B	8	T	OR	L	L	ROCKY
9	B	8	T	OR	M	L	

APPENDIX C
STATISTICS

STATISTICAL SUMMARY

NAME	NO. OF VALUES	ARITHMETIC MEAN	ARITHMETIC STD.DEV.	LOGARITHMIC MEAN	LOGARITHMIC STD.DEV.
CU	376	49.223	24.433	1.655	0.176
MO	375	6.955	2.253	0.822	0.129
PB	375	7.992	6.987	0.832	0.222
ZN	376	64.250	35.686	1.764	0.185
AG	227	0.352	0.196	-0.491	0.169
MN	376	376.417	321.862	2.494	0.237
AS	276	9.036	8.030	0.844	0.301

APPLE GROUP 1986 SOIL GEOCHEM SURVEY

VARIABLE NAME IS: CU NUMBER OF VALUES IS 376
CALCULATED PARAMETERS: MEAN = 49.2234 STD.DEV. = 24.4333 VARIANCE = 596.9856

PERCENTAGE HISTOGRAM OF ARITHMETIC VALUES

CELL	LOWER LIMIT	NO	PCT		LOG LIMIT
1	-24.0765	0	0.0		
2	-17.9681	0	0.0		
3	-11.8598	0	0.0		
4	-5.7515	0	0.0		
5	0.3568	0	0.0		-0.4475
6	6.4651	2	0.5	*	0.8106
7	12.5735	8	2.1	**	1.0995
8	18.6818	8	2.1	**	1.2714
9	24.7901	36	9.6	*********	1.3943
10	30.8984	59	15.7	***************	1.4899
11	37.0068	53	14.1	**************	1.5683
12	43.1151	57	15.2	***************	1.6346
13	49.2234	41	10.9	**********	1.6922
14	55.3317	42	11.2	**********	1.7430
15	61.4400	25	6.6	*******	1.7885
16	67.5484	16	4.3	****	1.8296
17	73.6567	10	2.7	***	1.8672
18	79.7650	3	0.8	*	1.9018
19	85.8733	5	1.3	*	1.9339
20	91.9817	0	0.0		1.9637
21	98.0900	1	0.3		1.9916
22	104.1983	3	0.8	*	2.0179
23	110.3066	0	0.0		2.0426
24	116.4149	2	0.5	*	2.0660

LOG VALUES.....: MEAN = 1.6550 STD.DEV. = 0.1763 VARIANCE = 0.0311

PERCENTAGE HISTOGRAM OF LOGARITHMIC VALUES

CELL	LOWER LIMIT	NO	PCT		ARITH.LIMIT
1	1.1260	1	0.3		13.3645
2	1.1700	1	0.3		14.7923
3	1.2141	4	1.1	*	16.3728
4	1.2582	1	0.3		18.1221
5	1.3023	1	0.3		20.0583
6	1.3464	6	1.6	**	22.2013
7	1.3905	16	4.3	****	24.5733
8	1.4346	20	5.3	*****	27.1988
9	1.4786	19	5.1	*****	30.1048
10	1.5227	35	9.3	*********	33.3212
11	1.5668	32	8.5	*********	36.8813
12	1.6109	47	12.5	************	40.8218
13	1.6550	40	10.6	**********	45.1832
14	1.6991	37	9.8	**********	50.0107
15	1.7431	42	11.2	**********	55.3539
16	1.7872	25	6.6	*******	61.2680
17	1.8313	18	4.8	*****	67.8140
18	1.8754	9	2.4	**	75.0594
19	1.9195	7	1.9	**	83.0788
20	1.9636	1	0.3		91.9551
21	2.0077	3	0.8	*	101.7797
22	2.0517	2	0.5	*	112.6540
23	2.0958	2	0.5	*	124.6902
24	2.1399	0	0.0		138.0173

24	2.1399	01	0.01			138.0123

APPLE GROUP 1986 SOIL GEOCHEM SURVEY

VARIABLE NAME IS: CU

CELL	LOWER LIMIT	NO	CUMPCT		ARITH.LIMIT
1	2.085	5	1.3	-	121.5658
2	2.063	2	1.9	-	115.5496
3	2.041	0	1.9	-	109.8310
4	2.019	3	2.7	-	104.3955
5	1.997	1	2.9	-	99.2290
6	1.975	0	2.9	-	94.3182
7	1.953	2	3.5	-	89.6504
8	1.931	3	4.3	-	85.2136
9	1.908	2	4.8	-	80.9964
10	1.886	7	6.6	-	76.9879
11	1.864	4	7.7	-	73.1778
12	1.842	8	9.8	-	69.5563
13	1.820	10	12.5	-	66.1139
14	1.798	19	17.6	-	62.8420
15	1.776	14	21.3	-	59.7319
16	1.754	24	27.7	-	56.7758
17	1.732	19	32.7	-	53.9660
18	1.710	21	38.3	-	51.2952
19	1.688	19	43.4	-	48.7566
20	1.666	14	47.1	-	46.3437
21	1.644	28	54.5	-	44.0501
22	1.622	24	60.9	-	41.8701
23	1.600	14	64.6	-	39.7979
24	1.578	20	69.9	-	37.8283
25	1.556	12	73.1	-	35.9562
26	1.534	14	76.9	-	34.1768
27	1.512	25	83.5	-	32.4854
28	1.490	8	85.6	-	30.8777
29	1.468	6	87.2	-	29.3495
30	1.446	14	91.0	-	27.8970
31	1.424	6	92.6	-	26.5164
32	1.401	7	94.4	-	25.2041
33	1.379	6	96.0	-	23.9568
34	1.357	3	96.8	-	22.7712
35	1.335	1	97.1	-	21.6442
36	1.313	0	97.1	-	20.5731
37	1.291	1	97.3	-	19.5549
38	1.269	0	97.3	-	18.5871
39	1.247	4	98.4	-	17.6673
40	1.225	0	98.4	-	16.7929
41	1.203	1	98.7	-	15.9618

APPROXIMATE CUMULATIVE PROBABILITY PLOT OF LOGARITHMIC VALUES

THRESHOLD1= 100 PPM CU

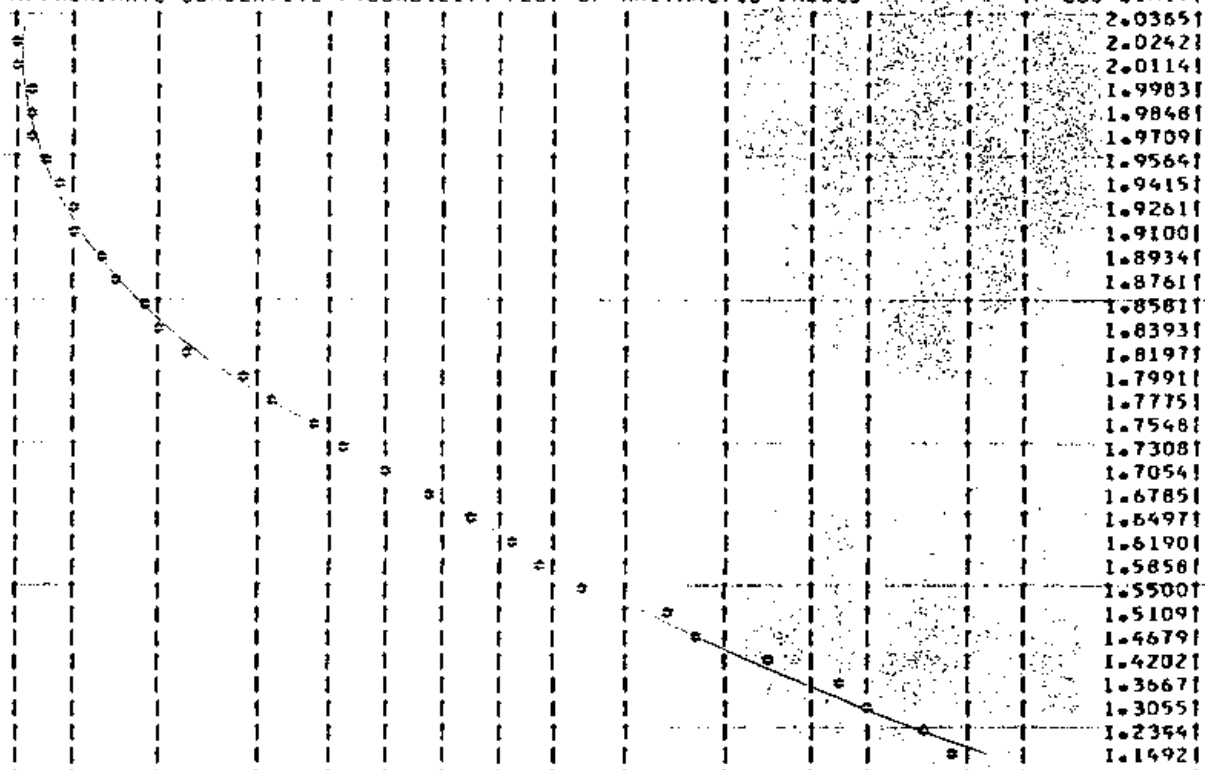
1 2.5 5 10 20 30 40 50 60 70 80 90 95 97.5 99

APPLE GROUP 1986 SOIL GEOCHEM SURVEY

VARIABLE NAME IS: CU

CELL	LOWER LIMIT	NO	CUMPCT		APPROXIMATE CUMULATIVE PROBABILITY PLOT OF ARITHMETIC VALUES	LOG LIMIT
1	108.780	7	1.9	-	*	2.0365
2	105.725	3	2.7	-	*	2.0242
3	102.671	0	2.7	-	*	2.0114
4	99.617	1	2.9	-	*	1.9983
5	96.563	0	2.9	-	*	1.9848
6	93.509	0	2.9	-	*	1.9709
7	90.455	2	3.5	-	*	1.9564
8	87.400	2	4.0	-	*	1.9415
9	84.346	2	4.5	-	*	1.9261
10	81.292	1	4.8	-	*	1.9100
11	78.238	4	5.9	-	*	1.8934
12	75.184	5	7.2	-	*	1.8761
13	72.130	4	8.2	-	*	1.8581
14	69.075	6	9.8	-	*	1.8393
15	66.021	10	12.5	-	*	1.8197
16	62.967	19	17.6	-	*	1.7991
17	59.913	14	21.3	-	*	1.7775
18	56.859	24	27.7	-	*	1.7548
19	53.805	19	32.7	-	*	1.7308
20	50.750	26	39.6	-	*	1.7054
21	47.696	22	45.5	-	*	1.6785
22	44.642	34	54.5	-	*	1.6497
23	41.588	24	60.9	-	*	1.6190
24	38.534	23	67.0	-	*	1.5858
25	35.479	23	73.1	-	*	1.5500
26	32.425	39	83.5	-	*	1.5109
27	29.371	14	87.2	-	*	1.4679
28	26.317	20	92.6	-	*	1.4202
29	23.263	13	96.0	-	*	1.3667
30	20.209	4	97.1	-	*	1.3055
31	17.154	5	98.4	-	*	1.2344
32	14.100	1	98.7	-	*	1.1492
33	11.046	4	99.7	-	*	1.0432
34	7.992	1	100.0	-	*	0.9027
35	4.938	0	100.0	-	*	0.6935
36	1.884	0	100.0	-	*	0.2750
37	-1.170	0	100.0	-	*	**********
38	-4.225	0	100.0	-	*	**********
39	-7.279	0	100.0	-	*	**********
40	-10.333	0	100.0	-	*	**********
41	-13.387	0	100.0	-	*	**********

1 2.5 5 10 20 30 40 50 60 70 80 90 95 97.5 99



APPLE GROUP 1986 SOIL GEOCHEM SURVEY

VARIABLE NAME IS: MO NUMBER OF VALUES IS 375
CALCULATED PARAMETERS: MEAN = 6.9547 STD.DEV. = 2.2529 VARIANCE = 5.0755

PERCENTAGE HISTOGRAM OF ARITHMETIC VALUES

CELL	LOWER LIMIT	NO	PCT		LOG LIMIT
1	0.1960	0	0.0		-0.7077
2	0.7592	0	0.0		-0.1196
3	1.3225	0	0.0		0.1214
4	1.8857	0	0.0		0.2755
5	2.4489	4	1.1	#	0.3890
6	3.0121	0	0.0		0.4789
7	3.5753	24	6.4	######	0.5533
8	4.1386	0	0.0		0.6168
9	4.7018	73	19.5	###################	0.6723
10	5.2650	0	0.0		0.7214
11	5.8282	81	21.6	#####################	0.7655
12	6.3914	0	0.0		0.8056
13	6.9547	61	16.3	################	0.8423
14	7.5179	73	19.5	###################	0.8761
15	8.0811	0	0.0		0.9075
16	8.6443	20	5.3	#####	0.9367
17	9.2075	0	0.0		0.9641
18	9.7708	15	4.0	####	0.9899
19	10.3340	0	0.0		1.0143
20	10.8972	8	2.1	##	1.0373
21	11.4604	8	2.1	##	1.0592
22	12.0237	0	0.0		1.0800
23	12.5869	2	0.5	#	1.0999
24	13.1501	0	0.0		1.1189

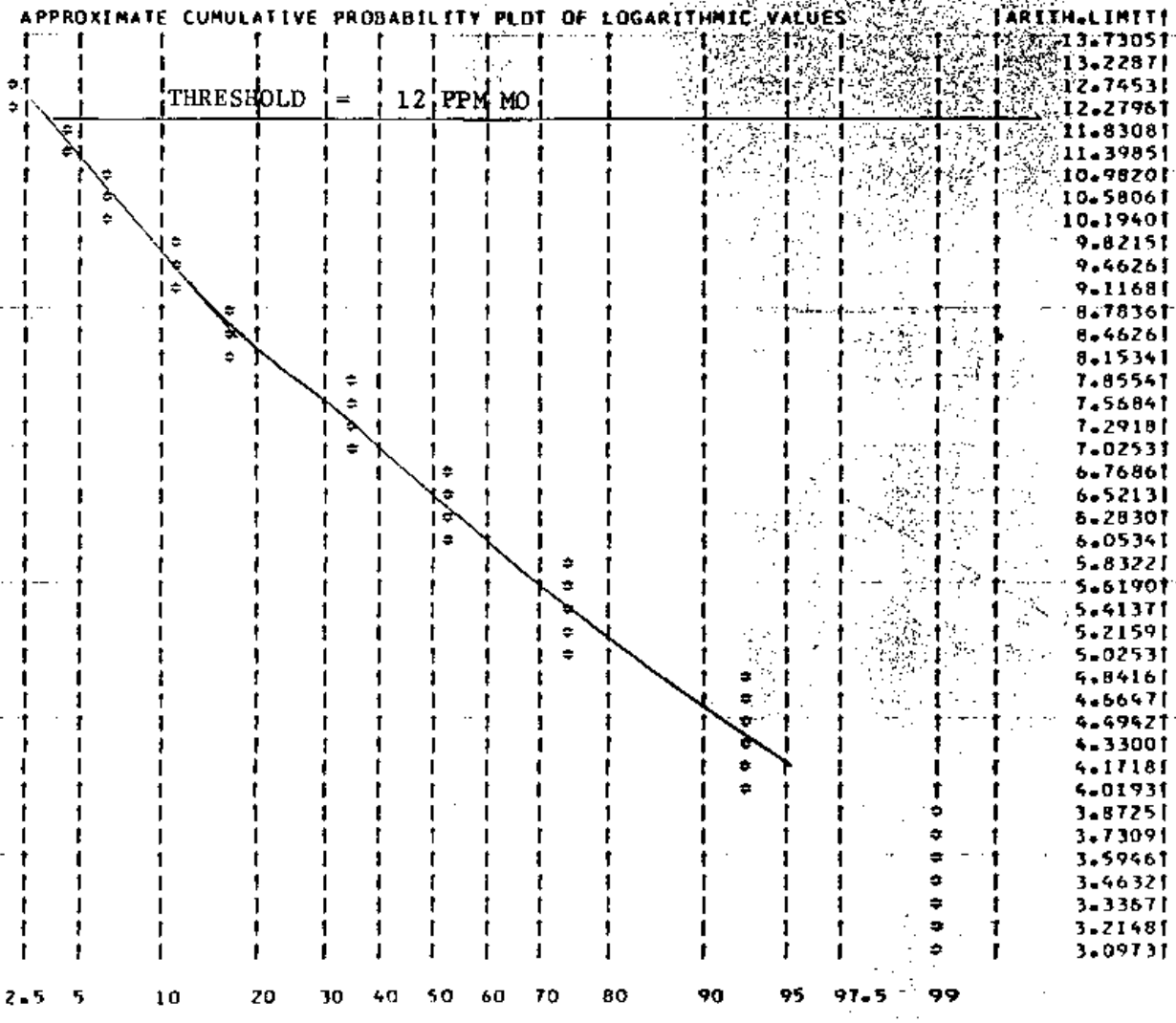
LOG VALUES.....: MEAN = 0.8224 STD.DEV. = 0.1293 VARIANCE = 0.0167

PERCENTAGE HISTOGRAM OF LOGARITHMIC VALUES

CELL	LOWER LIMIT	NO	PCT		ARITH.LIMIT
1	0.4344	0	0.0		2.7189
2	0.4667	4	1.1	#	2.9291
3	0.4991	0	0.0		3.1555
4	0.5314	0	0.0		3.3994
5	0.5637	0	0.0		3.6621
6	0.5961	24	6.4	######	3.9452
7	0.6284	0	0.0		4.2502
8	0.6607	0	0.0		4.5787
9	0.6931	73	19.5	###################	4.9326
10	0.7254	0	0.0		5.3139
11	0.7577	81	21.6	#####################	5.7246
12	0.7901	0	0.0		6.1671
13	0.8224	61	16.3	################	6.6438
14	0.8548	0	0.0		7.1573
15	0.8871	73	19.5	###################	7.7106
16	0.9194	0	0.0		8.3066
17	0.9518	20	5.3	#####	8.9486
18	0.9841	15	4.0	####	9.6403
19	1.0164	8	2.1	##	10.3855
20	1.0488	8	2.1	##	11.1883
21	1.0811	0	0.0		12.0531
22	1.1134	2	0.5	#	12.9847
23	1.1458	4	1.1	#	13.9884
24	1.1781	0	0.0		15.0697

APPLE GROUP 1986 SOIL GEOCHEM SURVEY

VARIABLE NAME IS: MO



CELL	LOWER LIMIT	NO	CUMPCT	ARITH.LIMIT
1	1.138	6	1.6	13.7305
2	1.122	0	1.6	13.2287
3	1.105	2	2.1	12.7453
4	1.089	0	2.1	12.2796
5	1.073	8	4.3	11.8308
6	1.057	0	4.3	11.3985
7	1.041	8	6.4	10.9820
8	1.025	0	6.4	10.5806
9	1.008	0	6.4	10.1940
10	0.992	15	10.4	9.8215
11	0.976	0	10.4	9.4626
12	0.960	0	10.4	9.1168
13	0.944	20	15.7	8.7836
14	0.928	0	15.7	8.4626
15	0.911	0	15.7	8.1534
16	0.895	73	35.2	7.8554
17	0.879	0	35.2	7.5684
18	0.863	0	35.2	7.2918
19	0.847	0	35.2	7.0253
20	0.831	61	51.5	6.7686
21	0.814	0	51.5	6.5213
22	0.798	0	51.5	6.2830
23	0.782	0	51.5	6.0534
24	0.766	81	73.1	5.8322
25	0.750	0	73.1	5.6190
26	0.733	0	73.1	5.4137
27	0.717	0	73.1	5.2159
28	0.701	0	73.1	5.0253
29	0.685	73	92.5	4.8416
30	0.669	0	92.5	4.6647
31	0.653	0	92.5	4.4942
32	0.636	0	92.5	4.3300
33	0.620	0	92.5	4.1718
34	0.604	0	92.5	4.0193
35	0.588	24	98.9	3.8725
36	0.572	0	98.9	3.7309
37	0.556	0	98.9	3.5946
38	0.539	0	98.9	3.4632
39	0.523	0	98.9	3.3367
40	0.507	0	98.9	3.2148
41	0.491	0	98.9	3.0973

APPLE GROUP 1986 SOIL GEOCHEM SURVEY

VARIABLE NAME IS: MO

CELL	LOWER LIMIT	NO	CUMPCT	APPROXIMATE CUMULATIVE PROBABILITY PLOT OF ARITHMETIC VALUES	LOG LIMIT
1	12.446	8	2.1	*	1.0950
2	12.164	0	2.1	*	1.0851
3	11.883	8	4.3	*	1.0749
4	11.601	0	4.3	*	1.0645
5	11.320	0	4.3	*	1.0538
6	11.038	0	4.3	*	1.0429
7	10.756	8	6.4	*	1.0317
8	10.475	0	6.4	*	1.0201
9	10.193	0	6.4	*	1.0083
10	9.912	15	10.4	*	0.9961
11	9.630	0	10.4	*	0.9836
12	9.348	0	10.4	*	0.9707
13	9.067	0	10.4	*	0.9575
14	8.785	20	15.7	*	0.9437
15	8.504	0	15.7	*	0.9296
16	8.222	0	15.7	*	0.9150
17	7.940	73	35.2	*	0.8998
18	7.659	0	35.2	*	0.8842
19	7.377	0	35.2	*	0.8679
20	7.095	0	35.2	*	0.8510
21	6.814	61	51.5	*	0.8334
22	6.532	0	51.5	*	0.8151
23	6.251	0	51.5	*	0.7959
24	5.969	81	73.1	*	0.7759
25	5.687	0	73.1	*	0.7549
26	5.406	0	73.1	*	0.7329
27	5.124	0	73.1	*	0.7096
28	4.843	73	92.5	*	0.6851
29	4.561	0	92.5	*	0.6591
30	4.279	0	92.5	*	0.6314
31	3.998	24	98.9	*	0.6018
32	3.716	0	98.9	*	0.5701
33	3.435	0	98.9	*	0.5359
34	3.153	0	98.9	*	0.4987
35	2.871	4	100.0	*	0.4581
36	2.590	0	100.0	*	0.4132
37	2.308	0	100.0	*	0.3633
38	2.026	0	100.0	*	0.3067
39	1.745	0	100.0	*	0.2418
40	1.463	0	100.0	*	0.1653
41	1.182	0	100.0	*	0.0725

2.5 5 10 20 30 40 50 60 70 80 90 95 97.5 99

APPLE GROUP 1986 SOIL GEOCHEM SURVEY

VARIABLE NAME IS: PB NUMBER OF VALUES IS 375
CALCULATED PARAMETERS: MEAN = 7.9920 STD.DEV. = 6.9872 VARIANCE = 48.8208

PERCENTAGE HISTOGRAM OF ARITHMETIC VALUES

CELL	LOWER LIMIT	NO	PCT		LOG LIMIT
1	-12.9697	0	0.0		
2	-11.2229	0	0.0		
3	-9.4761	0	0.0		
4	-7.7293	0	0.0		
5	-5.9825	0	0.0		
6	-4.2357	0	0.0		
7	-2.4889	0	0.0		
8	-0.7421	0	0.0		
9	1.0047	4	1.1	*	0.0020
10	2.7515	67	17.9	******************	0.4396
11	4.4983	120	32.0	********************************	0.6530
12	6.2451	49	13.1	************	0.7955
13	7.9919	58	15.5	***************	0.9026
14	9.7387	32	8.5	********	0.9885
15	11.4855	15	4.0	****	1.0601
16	13.2323	6	1.6	**	1.1216
17	14.9791	4	1.1	*	1.1755
18	16.7259	5	1.3	*	1.2234
19	18.4727	2	0.5	*	1.2665
20	20.2195	1	0.3		1.3058
21	21.9663	2	0.5	*	1.3418
22	23.7131	3	0.8	*	1.3750
23	25.4599	1	0.3		1.4059
24	27.2067	0	0.0		1.4347

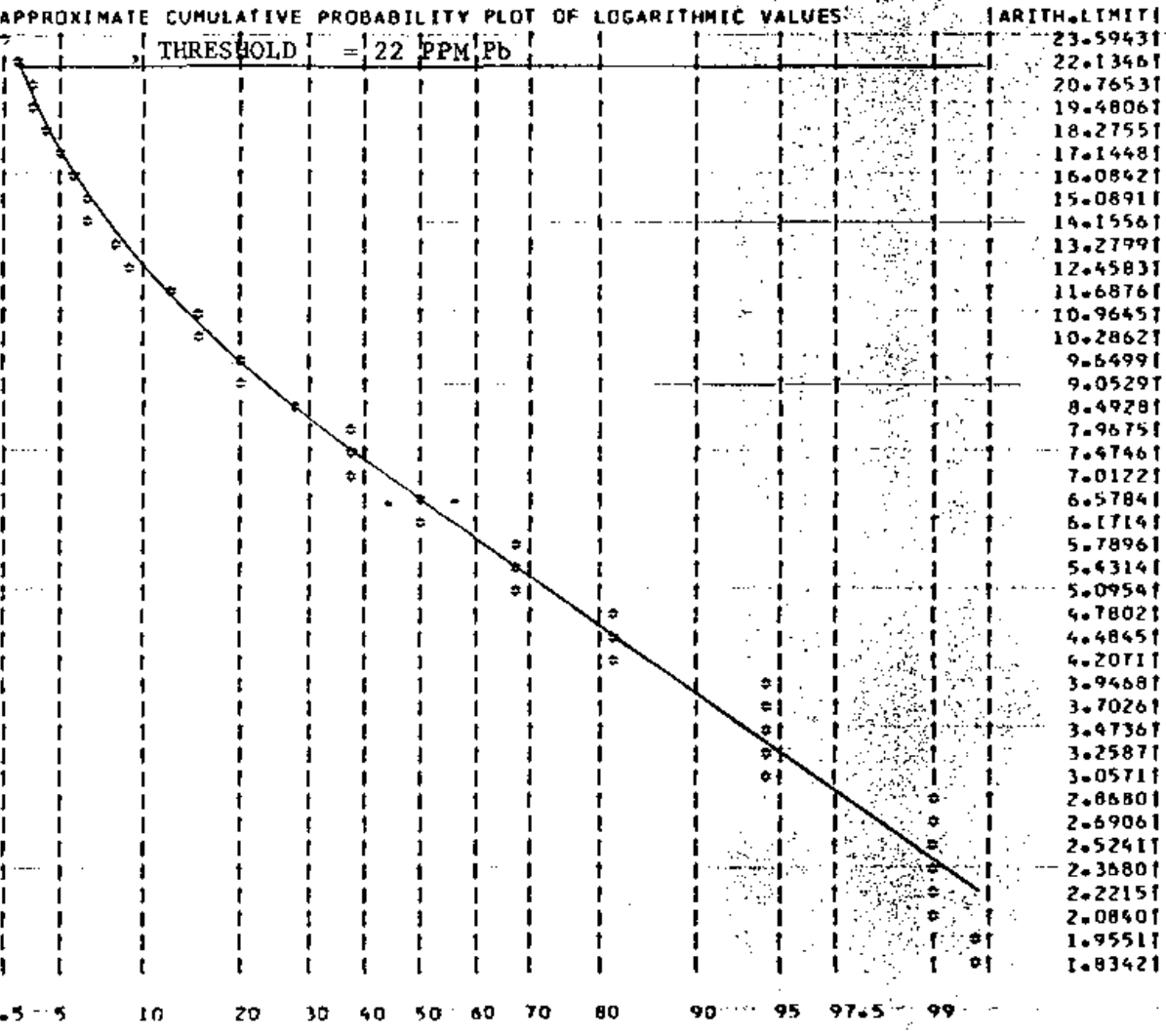
LOG VALUES.....: MEAN = 0.8320 STD.DEV. = 0.2219 VARIANCE = 0.0492

PERCENTAGE HISTOGRAM OF LOGARITHMIC VALUES

CELL	LOWER LIMIT	NO	PCT		ARITH.LIMIT
1	0.1664	0	0.0		1.4668
2	0.2218	0	0.0		1.6666
3	0.2773	4	1.1	*	1.8937
4	0.3328	0	0.0		2.1517
5	0.3882	0	0.0		2.4448
6	0.4437	18	4.8	*****	2.7779
7	0.4992	0	0.0		3.1563
8	0.5547	49	13.1	**************	3.5863
9	0.6101	0	0.0		4.0749
10	0.6656	58	15.5	****************	4.6301
11	0.7211	0	0.0		5.2608
12	0.7765	62	16.5	*****************	5.9775
13	0.8320	49	13.1	**************	6.7919
14	0.8875	31	8.3	********	7.7172
15	0.9429	27	7.2	*******	8.7685
16	0.9984	32	8.5	********	9.9631
17	1.0539	11	2.9	***	11.3204
18	1.1093	10	2.7	***	12.8626
19	1.1648	4	1.1	*	14.6150
20	1.2203	5	1.3	*	16.6061
21	1.2757	3	0.8	*	18.8884
22	1.3312	4	1.1	*	21.4390
23	1.3867	2	0.5	*	24.3597
24	1.4421	3	0.8	*	27.6784

APPLE GROUP 1986 SOIL GEOCHEM SURVEY

VARIABLE NAME IS: PB



CELL	LOWER LIMIT	NO	CUMPCT		ARITH.LIMIT
1	1.373	10	2.7	-	23.5943
2	1.345	2	3.2	-	22.1346
3	1.317	1	3.5	-	20.7653
4	1.290	1	3.7	-	19.4806
5	1.262	1	4.0	-	18.2755
6	1.234	2	4.5	-	17.1448
7	1.206	3	5.3	-	16.0842
8	1.179	3	6.1	-	15.0891
9	1.151	1	6.4	-	14.1556
10	1.123	6	8.0	-	13.2799
11	1.095	4	9.1	-	12.4583
12	1.068	11	12.0	-	11.6876
13	1.040	13	15.5	-	10.9645
14	1.012	0	15.5	-	10.2862
15	0.985	19	20.5	-	9.6499
16	0.957	0	20.5	-	9.0529
17	0.929	27	27.7	-	8.4928
18	0.901	31	36.0	-	7.9675
19	0.874	0	36.0	-	7.4746
20	0.846	0	36.0	-	7.0122
21	0.818	49	49.1	-	6.5784
22	0.790	0	49.1	-	6.1714
23	0.763	62	65.6	-	5.7896
24	0.735	0	65.6	-	5.4314
25	0.707	0	65.6	-	5.0954
26	0.679	58	81.1	-	4.7802
27	0.652	0	81.1	-	4.4845
28	0.624	0	81.1	-	4.2071
29	0.596	49	94.1	-	3.9468
30	0.569	0	94.1	-	3.7026
31	0.541	0	94.1	-	3.4736
32	0.513	0	94.1	-	3.2587
33	0.485	0	94.1	-	3.0571
34	0.458	18	98.9	-	2.8680
35	0.430	0	98.9	-	2.6906
36	0.402	0	98.9	-	2.5241
37	0.374	0	98.9	-	2.3680
38	0.347	0	98.9	-	2.2215
39	0.319	0	98.9	-	2.0840
40	0.291	4	100.0	-	1.9551
41	0.263	0	100.0	-	1.8342

APPCE GROUP 1986 SOIL GEOCHEM SURVEY

VARIABLE NAME IS: PB

CELL	LOWER LIMIT	NO	CUMPCT	APPROXIMATE CUMULATIVE PROBABILITY PLOT OF ARITHMETIC VALUES	LOG LIMIT
1	25.023	7	1.9	*	1.3983
2	24.150	1	2.1	*	1.3829
3	23.276	2	2.7	*	1.3669
4	22.403	2	3.2	*	1.3503
5	21.530	0	3.2	*	1.3330
6	20.656	1	3.5	*	1.3151
7	19.783	1	3.7	*	1.2963
8	18.909	1	4.0	*	1.2767
9	18.036	0	4.0	*	1.2561
10	17.163	2	4.5	*	1.2346
11	16.289	3	5.3	*	1.2119
12	15.416	3	6.1	*	1.1880
13	14.542	1	6.4	*	1.1626
14	13.669	6	8.0	*	1.1357
15	12.796	4	9.1	*	1.1071
16	11.922	11	12.0	*	1.0764
17	11.049	0	12.0	*	1.0433
18	10.175	13	15.5	*	1.0076
19	9.302	19	20.5	*	0.9686
20	8.429	27	27.7	*	0.9258
21	7.555	31	36.0	*	0.8783
22	6.682	49	49.1	*	0.8249
23	5.808	62	65.6	*	0.7641
24	4.935	58	81.1	*	0.6933
25	4.062	0	81.1	*	0.6087
26	3.188	49	94.1	*	0.5036
27	2.315	18	98.9	*	0.3645
28	1.441	4	100.0	*	0.1588
29	0.568	0	100.0	*	-0.2456
30	-0.305	0	100.0	*	**********
31	-1.179	0	100.0	*	**********
32	-2.052	0	100.0	*	**********
33	-2.925	0	100.0	*	**********
34	-3.799	0	100.0	*	**********
35	-4.672	0	100.0	*	**********
36	-5.546	0	100.0	*	**********
37	-6.419	0	100.0	*	**********
38	-7.292	0	100.0	*	**********
39	-8.166	0	100.0	*	**********
40	-9.039	0	100.0	*	**********
41	-9.913	0	100.0	*	**********

1 2.5 5 10 20 30 40 50 60 70 80 90 95 97.5 99

APPLE GROUP 1986 SOIL GEOCHEM SURVEY

VARIABLE NAME IS: ZN NUMBER OF VALUES IS 376
CALCULATED PARAMETERS: MEAN = 64.2500 STD.DEV. = 35.6858 VARIANCE = 1273.4746

PERCENTAGE HISTOGRAM OF ARITHMETIC VALUES

CELL	LOWER LIMIT	NO	PCT	
1	-42.8074	0	0.0	
2	-33.8859	0	0.0	
3	-24.9645	0	0.0	
4	-16.0431	0	0.0	
5	-7.1216	0	0.0	
6	1.7998	0	0.0	
7	10.7213	0	0.0	
8	19.6427	12	3.2	***
9	28.5642	38	10.1	**********
10	37.4856	60	16.0	****************
11	46.4071	66	17.6	*****************
12	55.3285	65	17.3	*****************
13	64.2500	45	12.0	************
14	73.1714	30	8.0	********
15	82.0928	16	4.3	****
16	91.0143	12	3.2	***
17	99.9357	6	1.6	**
18	108.8572	4	1.1	*
19	117.7786	4	1.1	*
20	126.7001	3	0.8	*
21	135.6215	2	0.5	*
22	144.5430	2	0.5	*
23	153.4644	2	0.5	*
24	162.3859	1	0.3	

LOG LIMIT
****
****
****
****
****
0.2552
1.0302
1.2932
1.4558
1.5739
1.6666
1.7429
1.8079
1.8643
1.9143
1.9591
1.9997
2.0369
2.0711
2.1028
2.1323
2.1600
2.1860
2.2105

LOG VALUES.....: MEAN = 1.7636 STD.DEV. = 0.1851 VARIANCE = 0.0343

PERCENTAGE HISTOGRAM OF LOGARITHMIC VALUES

CELL	LOWER LIMIT	NO	PCT	
1	1.2084	0	0.0	
2	1.2546	0	0.0	
3	1.3009	0	0.0	
4	1.3472	4	1.1	*
5	1.3934	7	1.9	**
6	1.4397	7	1.9	**
7	1.4860	15	4.0	****
8	1.5323	17	4.5	*****
9	1.5785	36	9.6	**********
10	1.6248	24	6.4	******
11	1.6711	45	12.0	************
12	1.7173	43	11.4	************
13	1.7636	43	11.4	************
14	1.8099	36	9.6	**********
15	1.8562	30	8.0	********
16	1.9024	21	5.6	******
17	1.9487	16	4.3	****
18	1.9950	6	1.6	**
19	2.0412	6	1.6	**
20	2.0875	5	1.3	*
21	2.1338	3	0.8	*
22	2.1800	4	1.1	*
23	2.2263	2	0.5	*
24	2.2726	2	0.5	*

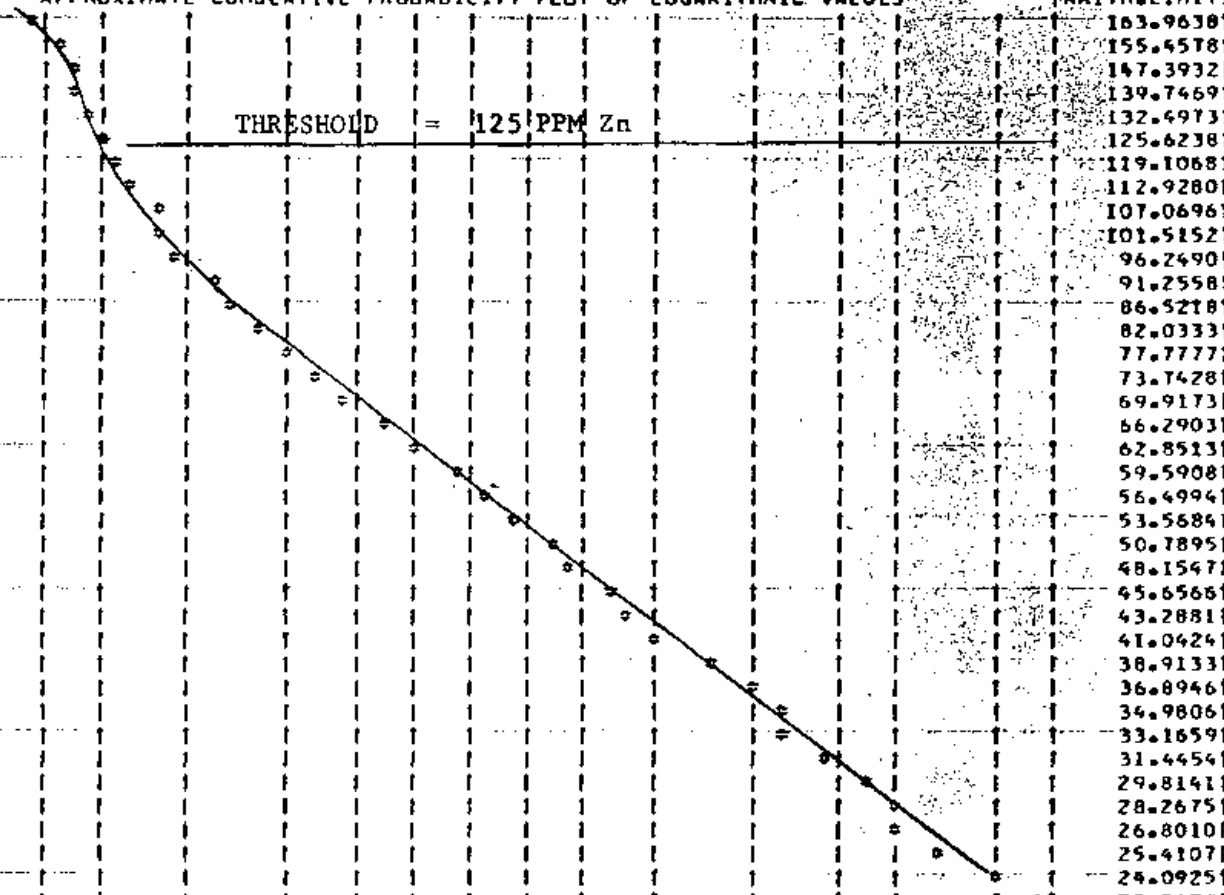
ARITH.LIMIT
16.1572
17.9736
19.9943
22.2422
24.7427
27.5244
30.6188
34.0611
37.8904
42.1502
46.8889
52.1603
58.0243
64.5477
71.8044
79.8770
88.8570
98.8467
109.9596
122.3215
136.0734
151.3712
168.3890
187.3200

APPLE GROUP 1986 SOIL GEOCHEM SURVEY

VARIABLE NAME IS: ZN

CELL	LOWER LIMIT	NO	CUMPCT		ARITH.LIMIT
1	2.2151	9	2.4	-	163.9638
2	2.192	2	2.9	-	155.4578
3	2.168	2	3.5	-	147.3932
4	2.145	1	3.7	-	139.7469
5	2.122	2	4.3	-	132.4973
6	2.099	2	4.8	-	125.6238
7	2.076	3	5.6	-	119.1068
8	2.053	2	6.1	-	112.9280
9	2.030	5	7.4	-	107.0696
10	2.007	2	8.0	-	101.5152
11	1.983	2	8.5	-	96.2490
12	1.960	12	11.7	-	91.2558
13	1.937	8	13.8	-	86.5218
14	1.914	8	16.0	-	82.0333
15	1.891	14	19.7	-	77.7777
16	1.868	16	23.9	-	73.7428
17	1.845	17	28.5	-	69.9173
18	1.821	18	33.2	-	66.2903
19	1.798	21	38.8	-	62.8513
20	1.775	24	45.2	-	59.5908
21	1.752	24	51.6	-	56.4994
22	1.729	21	57.2	-	53.5684
23	1.706	20	62.5	-	50.7895
24	1.683	13	66.0	-	48.1547
25	1.660	27	73.1	-	45.6566
26	1.636	8	75.3	-	43.2881
27	1.613	15	79.3	-	41.0424
28	1.590	21	84.8	-	38.9133
29	1.567	14	88.6	-	36.8946
30	1.544	10	91.2	-	34.9806
31	1.521	1	91.5	-	33.1659
32	1.498	9	93.9	-	31.4454
33	1.474	8	96.0	-	29.8141
34	1.451	3	96.8	-	28.2675
35	1.428	1	97.1	-	26.8010
36	1.405	3	97.9	-	25.4107
37	1.382	4	98.9	-	24.0925
38	1.359	4	100.0	-	22.8426
39	1.336	0	100.0	-	21.6576
40	1.312	0	100.0	-	20.5341
41	1.289	0	100.0	-	19.4689

APPROXIMATE CUMULATIVE PROBABILITY PLOT OF LOGARITHMIC VALUES



1 2.5 5 10 20 30 40 50 60 70 80 90 95 97.5 99

APPLE GROUP 1986 SOIL GEOCHEM SURVEY

VARIABLE NAME IS: ZN

CELL	LOWER LIMIT	NO	CUMPCT		APPROXIMATE CUMULATIVE PROBABILITY PLOT OF ARITHMETIC VALUES	LOG LIMIT
1	151.234	12	3.2	-	*	2.1796
2	146.773	1	3.5	-	*	2.1666
3	142.313	0	3.5	-	*	2.1532
4	137.852	2	4.0	-	*	2.1394
5	133.391	1	4.3	-	*	2.1251
6	128.930	0	4.3	-	*	2.1104
7	124.470	2	4.8	-	*	2.0951
8	120.009	2	5.3	-	*	2.0792
9	115.548	3	6.1	-	*	2.0628
10	111.088	3	6.9	-	*	2.0457
11	106.627	2	7.4	-	*	2.0279
12	102.166	1	7.7	-	*	2.0093
13	97.705	3	8.5	-	*	1.9899
14	93.245	5	9.8	-	*	1.9696
15	88.784	11	12.8	-	*	1.9483
16	84.323	7	14.6	-	*	1.9259
17	79.862	14	18.4	-	*	1.9023
18	75.402	12	21.5	-	*	1.8774
19	70.941	22	27.4	-	*	1.8509
20	66.480	22	33.2	-	*	1.8227
21	62.020	21	38.8	-	*	1.7925
22	57.559	37	48.7	-	*	1.7601
23	53.098	32	57.2	-	*	1.7251
24	48.637	33	66.0	-	*	1.6870
25	44.177	32	74.5	-	*	1.6452
26	39.716	35	83.8	-	*	1.5990
27	35.255	24	90.2	-	*	1.5472
28	30.795	19	95.2	-	*	1.4885
29	26.334	7	97.1	-	*	1.4205
30	21.873	11	100.0	-	*	1.3399
31	17.412	0	100.0	-	*	1.2409
32	12.952	0	100.0	-	*	1.1123
33	8.491	0	100.0	-	*	0.9290
34	4.030	0	100.0	-	*	0.6053
35	-0.431	0	100.0	-	*	**********
36	-4.891	0	100.0	-	*	**********
37	-9.352	0	100.0	-	*	**********
38	-13.813	0	100.0	-	*	**********
39	-18.273	0	100.0	-	*	**********
40	-22.734	0	100.0	-	*	**********
41	-27.195	0	100.0	-	*	**********

1

2.5 5 10 20 30 40 50 60 70 80 90 95 97.5 99

APPLE GROUP 1986 SOIL GEOCHEM SURVEY

VARIABLE NAME IS: AG NUMBER OF VALUES IS 227
CALCULATED PARAMETERS: MEAN = 0.3524 STD.DEV. = 0.1956 VARIANCE = 0.0383

PERCENTAGE HISTOGRAM OF ARITHMETIC VALUES

CELL	LOWER LIMIT	NO	PCT		LOG LIMIT
1	-0.2344	0	0.0		
2	-0.1855	0	0.0		
3	-0.1366	0	0.0		
4	-0.0877	0	0.0		
5	-0.0388	0	0.0		
6	0.0101	0	0.0		-1.9948
7	0.0590	0	0.0		-1.2290
8	0.1079	0	0.0		-0.9669
9	0.1568	55	24.2	************************	-0.8046
10	0.2057	0	0.0		-0.6867
11	0.2546	93	41.0	***	-0.5941
12	0.3035	0	0.0		-0.5178
13	0.3524	41	18.1	******************	-0.4529
14	0.4013	0	0.0		-0.3965
15	0.4502	0	0.0		-0.3466
16	0.4991	21	9.3	*********	-0.3018
17	0.5480	0	0.0		-0.2612
18	0.5969	7	3.1	***	-0.2241
19	0.6458	0	0.0		-0.1899
20	0.6947	3	1.3	*	-0.1582
21	0.7436	0	0.0		-0.1287
22	0.7925	3	1.3	*	-0.1010
23	0.8414	0	0.0		-0.0750
24	0.8903	1	0.4		-0.0505

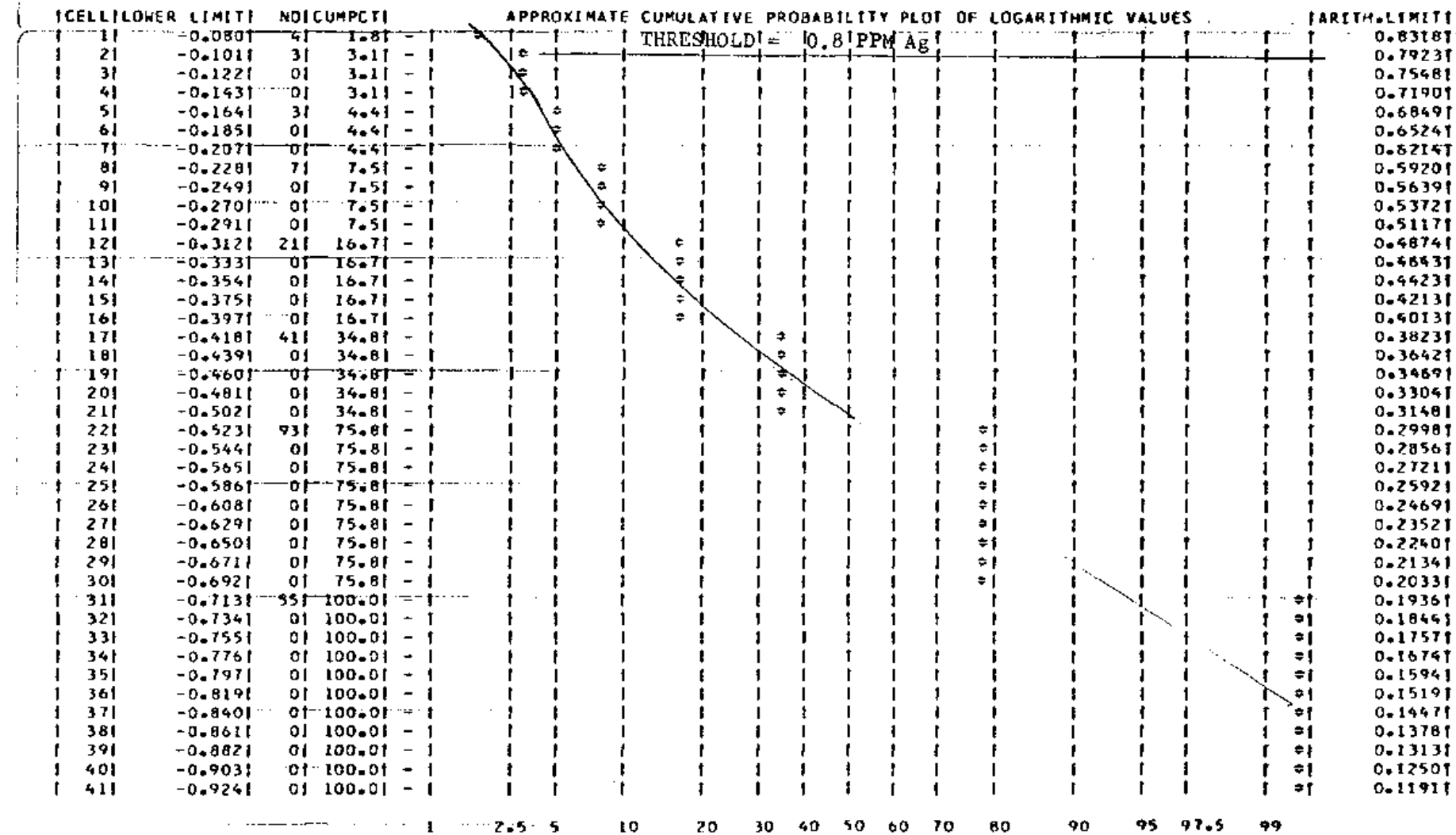
LOG VALUES.....: MEAN = -0.4915 STD.DEV. = 0.1688 VARIANCE = 0.0285

PERCENTAGE HISTOGRAM OF LOGARITHMIC VALUES

CELL	LOWER LIMIT	NO	PCT		ARITH.LIMIT
1	-0.9979	0	0.0		0.1005
2	-0.9557	0	0.0		0.1107
3	-0.9135	0	0.0		0.1220
4	-0.8713	0	0.0		0.1345
5	-0.8291	0	0.0		0.1482
6	-0.7869	0	0.0		0.1633
7	-0.7447	0	0.0		0.1800
8	-0.7025	55	24.2	************************	0.1984
9	-0.6603	0	0.0		0.2186
10	-0.6181	0	0.0		0.2409
11	-0.5759	0	0.0		0.2655
12	-0.5337	93	41.0	***	0.2926
13	-0.4915	0	0.0		0.3225
14	-0.4493	0	0.0		0.3554
15	-0.4071	41	18.1	******************	0.3917
16	-0.3649	0	0.0		0.4317
17	-0.3227	21	9.3	*********	0.4757
18	-0.2805	0	0.0		0.5243
19	-0.2382	7	3.1	***	0.5778
20	-0.1960	3	1.3	*	0.6367
21	-0.1538	0	0.0		0.7017
22	-0.1116	3	1.3	*	0.7733
23	-0.0694	1	0.4		0.8522
24	-0.0272	0	0.0		0.9392

APPLE GROUP 1986 SOIL GEOCHEM SURVEY

VARIABLE NAME IS: AG



CELL	LOWER LIMIT	NO	CUMPCT	ARITH.LIMIT
1	-0.080	4	1.8	0.8318
2	-0.101	3	3.1	0.7923
3	-0.122	0	3.1	0.7548
4	-0.143	0	3.1	0.7190
5	-0.164	3	4.4	0.6849
6	-0.185	0	4.4	0.6524
7	-0.207	0	4.4	0.6214
8	-0.228	7	7.5	0.5920
9	-0.249	0	7.5	0.5639
10	-0.270	0	7.5	0.5372
11	-0.291	0	7.5	0.5117
12	-0.312	21	16.7	0.4874
13	-0.333	0	16.7	0.4643
14	-0.354	0	16.7	0.4423
15	-0.375	0	16.7	0.4213
16	-0.397	0	16.7	0.4013
17	-0.418	41	34.8	0.3823
18	-0.439	0	34.8	0.3642
19	-0.460	0	34.8	0.3469
20	-0.481	0	34.8	0.3304
21	-0.502	0	34.8	0.3148
22	-0.523	93	75.8	0.2998
23	-0.544	0	75.8	0.2856
24	-0.565	0	75.8	0.2721
25	-0.586	0	75.8	0.2592
26	-0.608	0	75.8	0.2469
27	-0.629	0	75.8	0.2352
28	-0.650	0	75.8	0.2240
29	-0.671	0	75.8	0.2134
30	-0.692	0	75.8	0.2033
31	-0.713	55	100.0	0.1936
32	-0.734	0	100.0	0.1844
33	-0.755	0	100.0	0.1757
34	-0.776	0	100.0	0.1674
35	-0.797	0	100.0	0.1594
36	-0.819	0	100.0	0.1519
37	-0.840	0	100.0	0.1447
38	-0.861	0	100.0	0.1378
39	-0.882	0	100.0	0.1313
40	-0.903	0	100.0	0.1250
41	-0.924	0	100.0	0.1191

1 2.5 5 10 20 30 40 50 60 70 80 90 95 97.5 99

APPLE GROUP 1986 SOIL GEOCHEM SURVEY

VARIABLE NAME IS: AG

CELL	LOWER LIMIT	NO	CUMPCT	APPROXIMATE CUMULATIVE PROBABILITY PLOT OF ARITHMETIC VALUES	LOG LIMIT
1	0.829	4	1.8	*	-0.0813
2	0.805	0	1.8	*	-0.0943
3	0.780	3	3.1	*	-0.1077
4	0.756	0	3.1	*	-0.1216
5	0.731	0	3.1	*	-0.1359
6	0.707	0	3.1	*	-0.1506
7	0.682	3	4.4	*	-0.1659
8	0.658	0	4.4	*	-0.1817
9	0.634	0	4.4	*	-0.1982
10	0.609	0	4.4	*	-0.2153
11	0.585	7	7.5	*	-0.2331
12	0.560	0	7.5	*	-0.2516
13	0.536	0	7.5	*	-0.2710
14	0.511	0	7.5	*	-0.2913
15	0.487	21	16.7	*	-0.3126
16	0.462	0	16.7	*	-0.3349
17	0.438	0	16.7	*	-0.3585
18	0.414	0	16.7	*	-0.3835
19	0.389	41	34.8	*	-0.4099
20	0.365	0	34.8	*	-0.4381
21	0.340	0	34.8	*	-0.4683
22	0.316	0	34.8	*	-0.5007
23	0.291	93	75.8	*	-0.5357
24	0.267	0	75.8	*	-0.5737
25	0.242	0	75.8	*	-0.6155
26	0.218	0	75.8	*	-0.6617
27	0.193	55	100.0	*	-0.7133
28	0.169	0	100.0	*	-0.7720
29	0.145	0	100.0	*	-0.8399
30	0.120	0	100.0	*	-0.9203
31	0.096	0	100.0	*	-1.0191
32	0.071	0	100.0	*	-1.1472
33	0.047	0	100.0	*	-1.3298
34	0.022	0	100.0	*	-1.6508
35	-0.002	0	100.0	*	**********
36	-0.027	0	100.0	*	**********
37	-0.051	0	100.0	*	**********
38	-0.075	0	100.0	*	**********
39	-0.100	0	100.0	*	**********
40	-0.124	0	100.0	*	**********
41	-0.149	0	100.0	*	**********

1 2.5 5 10 20 30 40 50 60 70 80 90 95 97.5 99

APPLE GROUP 1986 SOIL GEOCHEM SURVEY

VARIABLE NAME IS: MN NUMBER OF VALUES IS 376
CALCULATED PARAMETERS: MEAN = 376.4175 STD.DEV. = 321.8616 VARIANCE = **********

PERCENTAGE HISTOGRAM OF ARITHMETIC VALUES

CELL	LOWER LIMIT	NO	PCT		LOG LIMIT
1	-589.1692	0	0.0		**********
2	-508.7039	0	0.0		**********
3	-428.2385	0	0.0		**********
4	-347.7732	0	0.0		**********
5	-267.3079	0	0.0		**********
6	-186.8427	0	0.0		**********
7	-106.3773	0	0.0		**********
8	-25.9119	0	0.0		**********
9	54.5535	10	2.7	***	1.7368
10	135.0189	74	19.7	********************	2.1304
11	215.4843	129	34.3	**********	2.3334
12	295.9497	58	15.4	**********	2.4712
13	376.4153	40	10.6	**********	2.5757
14	456.8809	21	5.6	******	2.6598
15	537.3464	7	1.9	**	2.7303
16	617.8120	7	1.9	**	2.7909
17	698.2776	3	0.8	*	2.8440
18	778.7432	6	1.6	**	2.8914
19	859.2087	1	0.3		2.9341
20	939.6743	3	0.8	*	2.9730
21	1020.1399	2	0.5	*	3.0087
22	1100.6055	1	0.3		3.0416
23	1181.0710	3	0.8	*	3.0723
24	1261.5366	0	0.0		3.1009

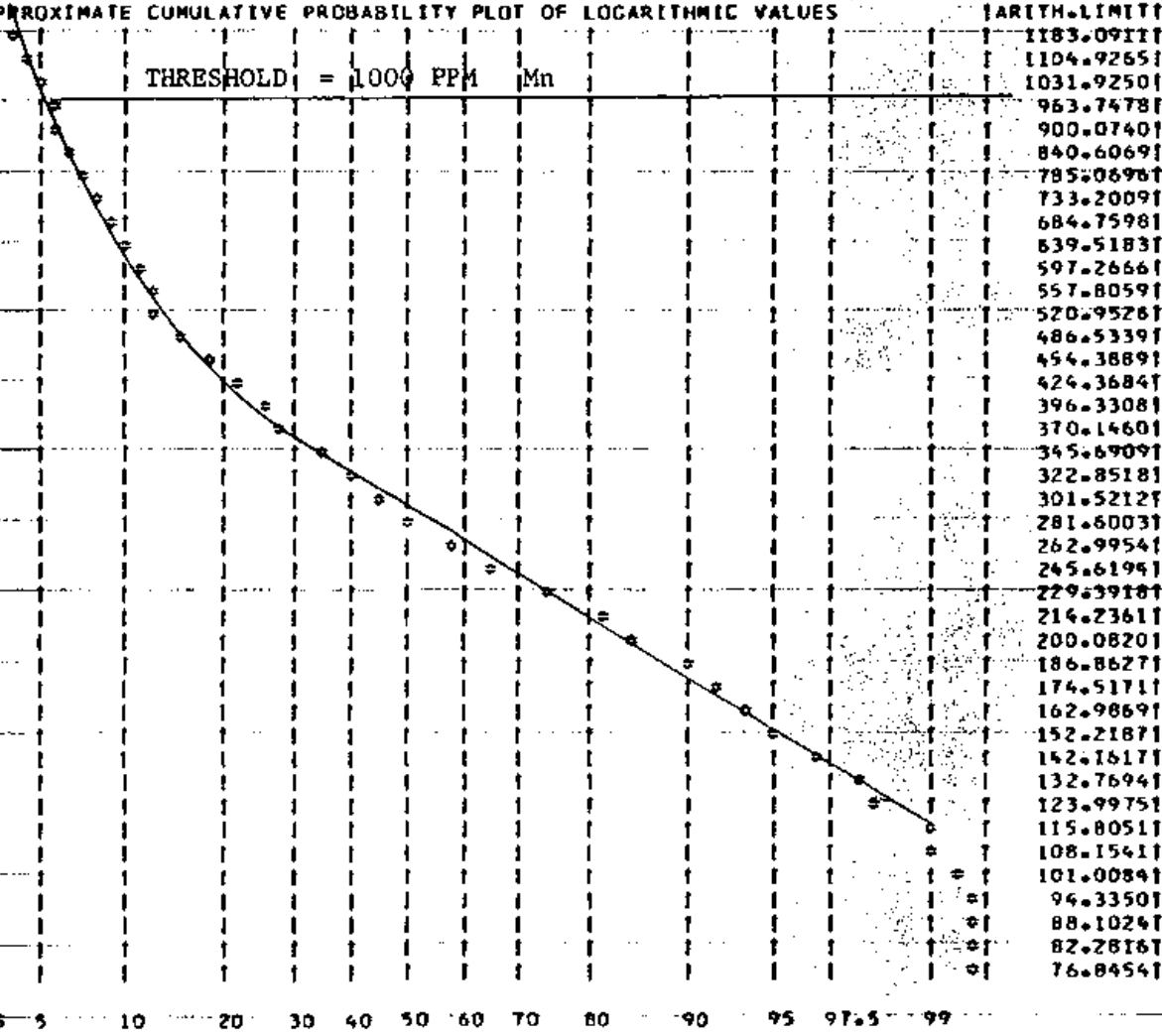
LOG VALUES.....: MEAN = 2.4942 STD.DEV. = 0.2375 VARIANCE = 0.0564

PERCENTAGE HISTOGRAM OF LOGARITHMIC VALUES

CELL	LOWER LIMIT	NO	PCT		ARITH.LIMIT
1	1.7817	0	0.0		60.4949
2	1.8411	0	0.0		69.3568
3	1.9005	0	0.0		79.5168
4	1.9598	4	1.1	*	91.1651
5	2.0192	1	0.3		104.5198
6	2.0786	7	1.9	**	119.8309
7	2.1379	11	2.9	***	137.3848
8	2.1973	14	3.7	****	157.5102
9	2.2567	30	8.0	********	180.5839
10	2.3160	49	13.0	*************	207.0375
11	2.3754	60	16.0	****************	237.3663
12	2.4348	43	11.4	**********	272.1379
13	2.4942	38	10.1	**********	312.0032
14	2.5535	36	9.6	**********	357.7083
15	2.6129	22	5.9	******	410.1086
16	2.6723	17	4.5	*****	470.1853
17	2.7316	7	1.9	**	539.0623
18	2.7910	7	1.9	**	618.0291
19	2.8504	6	1.6	**	708.5645
20	2.9097	4	1.1	*	812.3616
21	2.9691	3	0.8	*	931.3638
22	3.0285	4	1.1	*	1067.7986
23	3.0879	3	0.8	*	1224.2195
24	3.1472	2	0.5	*	1403.5544

APPLE GROUP 1986 SOIL GEOCHEM SURVEY

VARIABLE NAME IS: MN



CELL	LOWER LIMIT	NO	CUMPCT		ARITH.LIMIT
1	3.073	14	3.7	-	1183.0911
2	3.043	1	4.0	-	1104.9265
3	3.014	2	4.5	-	1031.9250
4	2.984	2	5.1	-	963.7478
5	2.954	2	5.6	-	900.0740
6	2.925	1	5.9	-	840.6069
7	2.895	3	6.6	-	785.0696
8	2.865	4	7.7	-	733.2009
9	2.836	2	8.2	-	684.7598
10	2.806	4	9.3	-	639.5183
11	2.776	5	10.6	-	597.2666
12	2.746	4	11.7	-	557.8059
13	2.717	3	12.5	-	520.9526
14	2.687	11	15.4	-	486.5339
15	2.657	7	17.3	-	454.3889
16	2.628	13	20.7	-	424.3684
17	2.598	15	24.7	-	396.3308
18	2.568	12	27.9	-	370.1460
19	2.539	22	33.8	-	345.6909
20	2.509	21	39.4	-	322.8518
21	2.479	12	42.6	-	301.5212
22	2.450	22	48.4	-	281.6003
23	2.420	33	57.2	-	262.9954
24	2.390	24	63.6	-	245.6194
25	2.361	35	72.9	-	229.5918
26	2.331	28	80.3	-	214.7361
27	2.301	14	84.0	-	200.0820
28	2.272	18	88.8	-	186.8627
29	2.242	9	91.2	-	174.5171
30	2.212	8	93.4	-	162.9869
31	2.182	4	94.4	-	152.2187
32	2.153	8	96.5	-	142.1617
33	2.123	4	97.6	-	132.7694
34	2.093	1	97.9	-	123.9975
35	2.064	4	98.9	-	115.8051
36	2.034	0	98.9	-	108.1541
37	2.004	1	99.2	-	101.0084
38	1.975	1	99.5	-	94.3350
39	1.945	2	100.0	-	88.1024
40	1.915	0	100.0	-	82.2816
41	1.886	0	100.0	-	76.8454

APPLE GROUP 1986 SOIL GEOCHEM SURVEY

VARIABLE NAME IS: MN

CELL	LOWER LIMIT	NO	CUMPCT	APPROXIMATE CUMULATIVE PROBABILITY PLOT OF ARITHMETIC VALUES	LOG LIMIT
1	1160.955	14	3.7	*	3.0648
2	1120.722	0	3.7	*	3.0495
3	1080.489	1	4.0	*	3.0336
4	1040.256	2	4.5	*	3.0171
5	1000.023	0	4.5	*	3.0000
6	959.790	3	5.3	*	2.9822
7	919.557	0	5.3	*	2.9636
8	879.324	1	5.6	*	2.9441
9	839.092	2	6.1	*	2.9238
10	798.859	1	6.4	*	2.9025
11	758.626	4	7.4	*	2.8800
12	718.393	2	8.0	*	2.8564
13	678.160	1	8.2	*	2.8313
14	637.927	4	9.3	*	2.8048
15	597.694	5	10.6	*	2.7765
16	557.461	4	11.7	*	2.7462
17	517.228	4	12.8	*	2.7137
18	476.995	12	16.0	*	2.6785
19	436.762	13	19.4	*	2.6402
20	396.530	20	24.7	*	2.5983
21	356.297	26	31.6	*	2.5518
22	316.064	32	40.2	*	2.4998
23	275.831	39	50.5	*	2.4406
24	235.598	70	69.1	*	2.3722
25	195.365	66	87.2	*	2.2908
26	155.133	25	93.9	*	2.1907
27	114.900	19	98.9	*	2.0603
28	74.667	4	100.0	*	1.8731
29	34.435	0	100.0	*	1.5370
30	-5.798	0	100.0	*	**********
31	-46.031	0	100.0	*	**********
32	-86.263	0	100.0	*	**********
33	-126.496	0	100.0	*	**********
34	-166.729	0	100.0	*	**********
35	-206.962	0	100.0	*	**********
36	-247.194	0	100.0	*	**********
37	-287.427	0	100.0	*	**********
38	-327.659	0	100.0	*	**********
39	-367.892	0	100.0	*	**********
40	-408.125	0	100.0	*	**********
41	-448.357	0	100.0	*	**********

1 2.5 5 10 20 30 40 50 60 70 80 90 95 97.5 99

APPLE GROUP 1986 SOIL GEOCHEM SURVEY

VARIABLE NAME IS: AS NUMBER OF VALUES IS 276
CALCULATED PARAMETERS: MEAN = 9.0362 STD.DEV. = 8.0299 VARIANCE = 64.4787

PERCENTAGE HISTOGRAM OF ARITHMETIC VALUES

CELL	LOWER LIMIT	NO	PCT		LOG LIMIT
1	-15.0535	0	0.0		
2	-13.0460	0	0.0		
3	-11.0385	0	0.0		
4	-9.0311	0	0.0		
5	-7.0236	0	0.0		
6	-5.0161	0	0.0		
7	-3.0087	0	0.0		
8	-1.0012	0	0.0		
9	1.0063	47	17.0	**********	0.0027
10	3.0137	56	20.3	**********	0.4791
11	5.0212	46	16.7	**********	0.7008
12	7.0287	37	13.4	********	0.8469
13	9.0361	32	11.6	********	0.9560
14	11.0436	12	4.3	***	1.0431
15	13.0511	17	6.2	****	1.1156
16	15.0585	7	2.5	**	1.1778
17	17.0660	3	1.1	*	1.2321
18	19.0735	4	1.4	*	1.2804
19	21.0809	0	0.0		1.3239
20	23.0884	2	0.7	*	1.3634
21	25.0959	2	0.7	*	1.3996
22	27.1034	1	0.4		1.4330
23	29.1109	3	1.1	*	1.4641
24	31.1183	3	1.1	*	1.4930

LOG VALUES.....: MEAN = 0.8442 STD.DEV. = 0.3008 VARIANCE = 0.0905

PERCENTAGE HISTOGRAM OF LOGARITHMIC VALUES

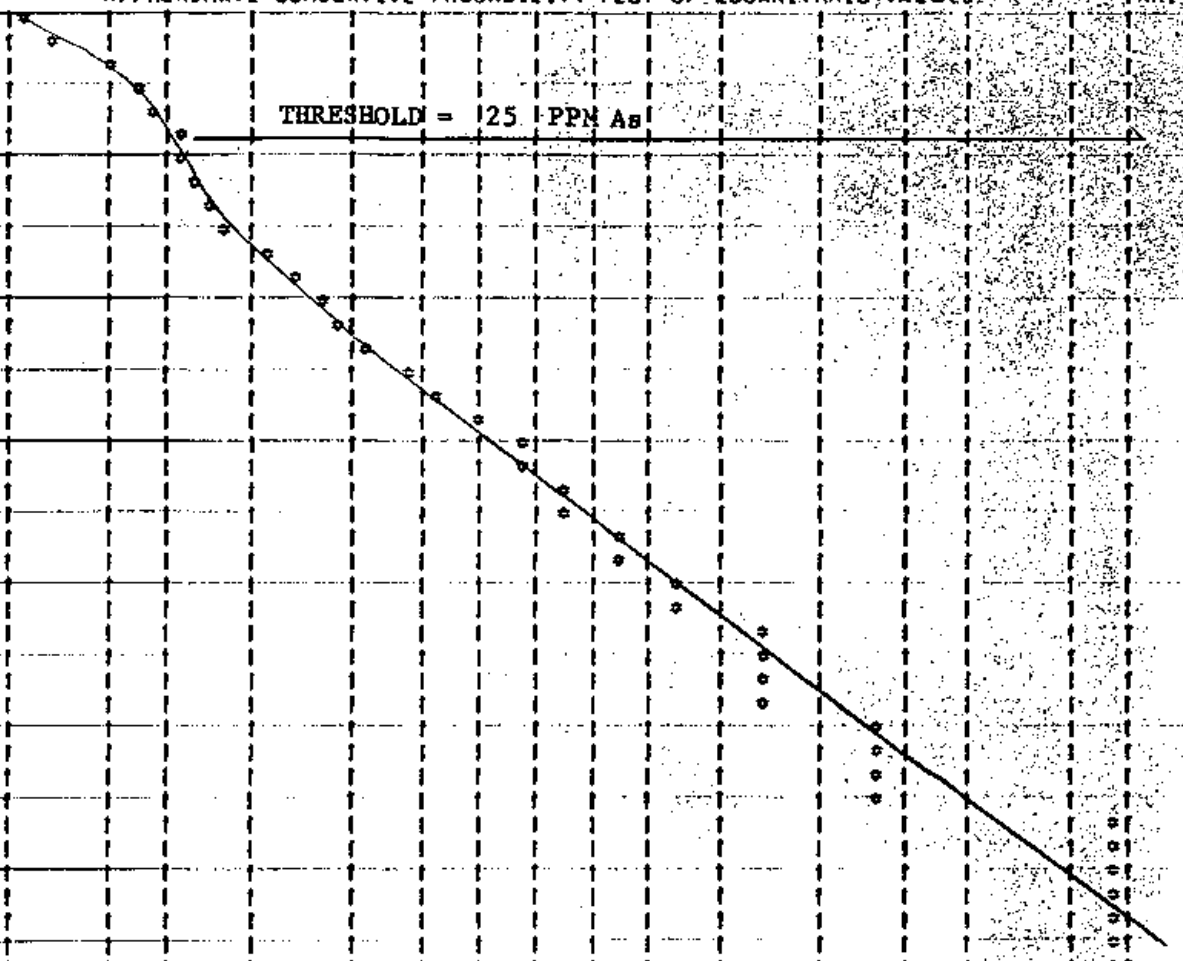
CELL	LOWER LIMIT	NO	PCT		ARITH.LIMIT
1	-0.0583	0	0.0		0.8745
2	0.0169	0	0.0		1.0398
3	0.0922	0	0.0		1.2364
4	0.1674	0	0.0		1.4701
5	0.2426	18	6.9	*******	1.7481
6	0.3178	0	0.0		2.0786
7	0.3930	0	0.0		2.4716
8	0.4682	29	10.5	**********	2.9390
9	0.5434	28	10.1	**********	3.4946
10	0.6186	0	0.0		4.1554
11	0.6938	28	10.1	**********	4.9410
12	0.7690	26	9.4	*********	5.8752
13	0.8442	43	15.6	**********	6.9861
14	0.9194	14	5.1	*****	8.3069
15	0.9946	32	11.6	**********	9.8775
16	1.0699	12	4.3	****	11.7451
17	1.1451	19	6.9	*******	13.9657
18	1.2203	8	2.9	***	16.6063
19	1.2955	4	1.4	*	19.7461
20	1.3707	4	1.4	*	23.4796
21	1.4459	7	2.5	**	27.9189
22	1.5211	1	0.4		33.1976
23	1.5963	0	0.0		39.4744
24	1.6715	1	0.4		46.9380

24| 1.671| 1| 0.4| | 46.938|

APPLE GROUP 1986 SOIL GEOCHEM SURVEY

VARIABLE NAME IS: AS

CELL	LOWER LIMIT	NO	CUMPCT	APPROXIMATE CUMULATIVE PROBABILITY PLOT OF LOGARITHMIC VALUES	ARITH. LIMIT
1	1.578	3	1.1		37.802
2	1.540	1	1.4		34.666
3	1.502	3	2.5		31.791
4	1.465	3	3.6		29.154
5	1.427	2	4.3		26.736
6	1.389	2	5.1		24.518
7	1.352	1	5.4		22.484
8	1.314	2	6.2		20.619
9	1.277	3	7.2		18.909
10	1.239	2	8.0		17.341
11	1.201	7	10.5		15.902
12	1.164	7	13.0		14.583
13	1.126	10	16.7		13.374
14	1.089	5	18.5		12.264
15	1.051	7	21.0		11.247
16	1.013	19	27.9		10.314
17	0.976	13	32.6		9.459
18	0.938	14	37.7		8.674
19	0.901	23	46.0		7.955
20	0.863	0	46.0		7.295
21	0.825	20	53.3		6.690
22	0.788	0	53.3		6.135
23	0.750	26	62.7		5.626
24	0.713	0	62.7		5.159
25	0.675	28	72.8		4.731
26	0.637	0	72.8		4.339
27	0.600	28	83.0		3.979
28	0.562	0	83.0		3.649
29	0.525	0	83.0		3.346
30	0.487	0	83.0		3.069
31	0.449	29	93.5		2.814
32	0.412	0	93.5		2.581
33	0.374	0	93.5		2.366
34	0.337	0	93.5		2.170
35	0.299	18	100.0		1.990
36	0.261	0	100.0		1.825
37	0.224	0	100.0		1.674
38	0.186	0	100.0		1.535
39	0.149	0	100.0		1.407
40	0.111	0	100.0		1.291
41	0.073	0	100.0		1.184

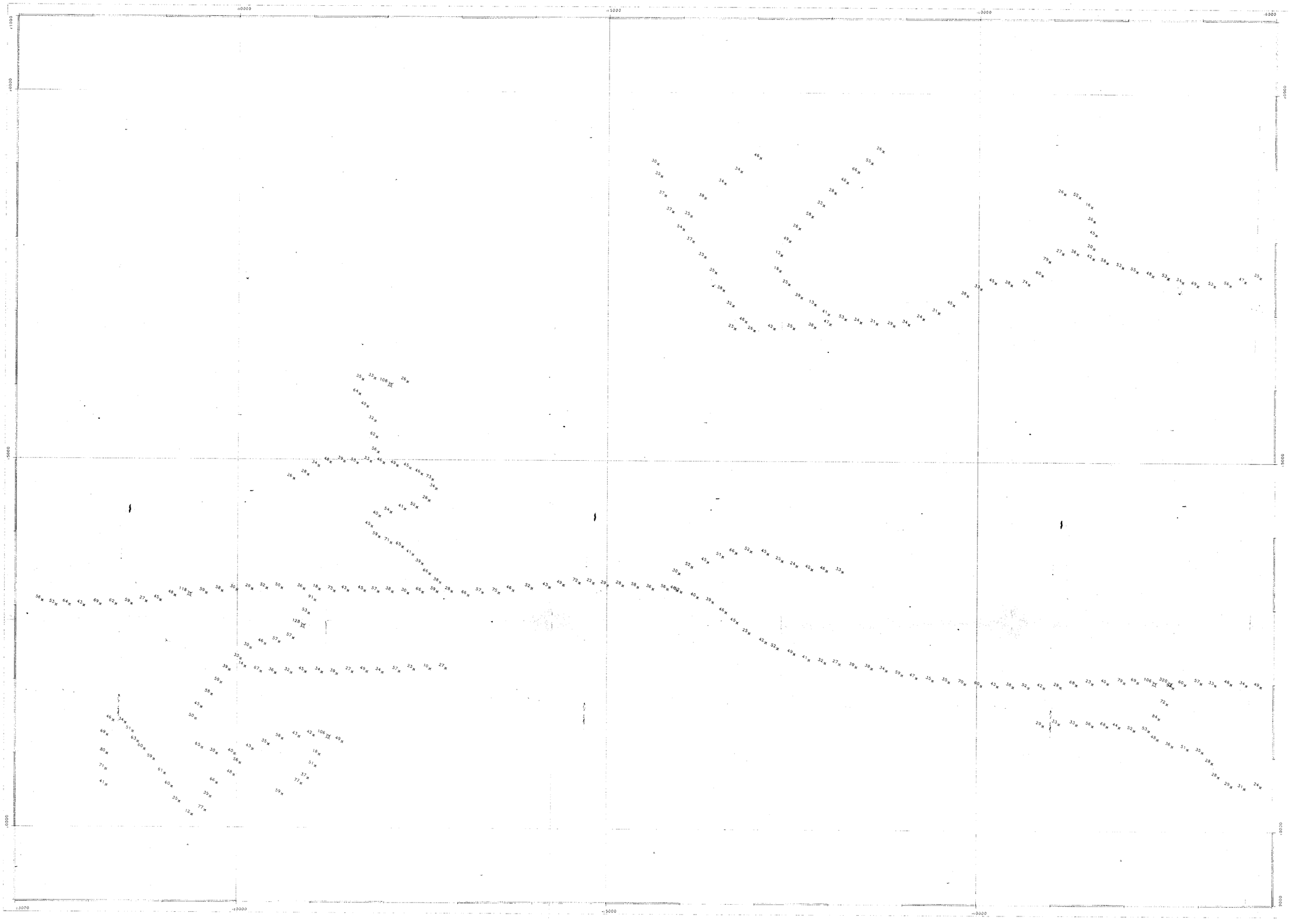


APPLE GROUP 1986 SOIL GEOCHEM SURVEY

VARIABLE NAME IS: AS

CELL	LOWER LIMIT	NO	CUMPCT		APPROXIMATE CUMULATIVE PROBABILITY PLOT OF ARITHMETIC VALUES	LOG LIMIT
1	28.609	10	3.6	-	*	1.4565
2	27.605	1	4.0	-	*	1.4410
3	26.602	1	4.3	-	*	1.4249
4	25.598	1	4.7	-	*	1.4082
5	24.594	1	5.1	-	*	1.3908
6	23.590	1	5.4	-	*	1.3727
7	22.587	0	5.4	-	*	1.3538
8	21.583	0	5.4	-	*	1.3341
9	20.579	2	6.2	-	*	1.3134
10	19.575	2	6.9	-	*	1.2917
11	18.572	1	7.2	-	*	1.2688
12	17.568	2	8.0	-	*	1.2447
13	16.564	5	9.8	-	*	1.2192
14	15.560	2	10.5	-	*	1.1920
15	14.557	7	13.0	-	*	1.1631
16	13.553	10	16.7	-	*	1.1320
17	12.549	5	18.5	-	*	1.0986
18	11.545	7	21.0	-	*	1.0624
19	10.542	19	27.9	-	*	1.0229
20	9.538	13	32.6	-	*	0.9795
21	8.534	14	37.7	-	*	0.9312
22	7.531	23	46.0	-	*	0.8768
23	6.527	20	53.3	-	*	0.8147
24	5.523	26	62.7	-	*	0.7422
25	4.519	28	72.8	-	*	0.6551
26	3.516	28	83.0	-	*	0.5460
27	2.512	29	93.5	-	*	0.4000
28	1.508	18	100.0	-	*	0.1784
29	0.504	0	100.0	-	*	-0.2972
30	-0.499	0	100.0	-	*	**********
31	-1.503	0	100.0	-	*	**********
32	-2.507	0	100.0	-	*	**********
33	-3.511	0	100.0	-	*	**********
34	-4.514	0	100.0	-	*	**********
35	-5.518	0	100.0	-	*	**********
36	-6.522	0	100.0	-	*	**********
37	-7.525	0	100.0	-	*	**********
38	-8.529	0	100.0	-	*	**********
39	-9.533	0	100.0	-	*	**********
40	-10.537	0	100.0	-	*	**********
41	-11.540	0	100.0	-	*	**********

1 2.5 5 10 20 30 40 50 60 70 80 90 95 97.5 99



GEOLOGICAL BRANCH
ASSESSMENT REPORT

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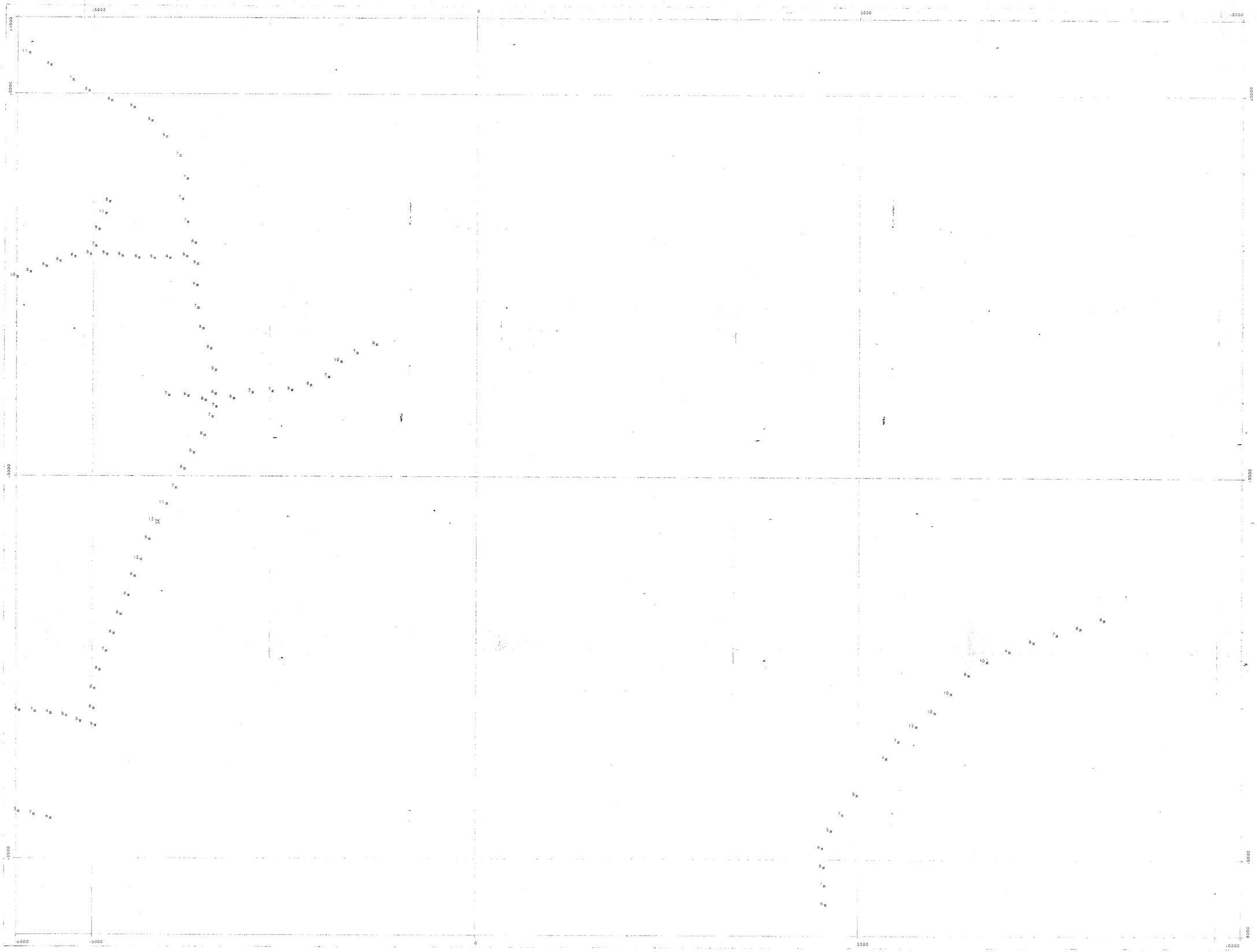
UTAH MINES LIMITED	
ISLAND COPPER MINE	Scale 1:00
	Date 17-FEB-87
1986 SOIL GEOCH	Project
	Drawn By A. T. R.
COPPER ANOMALIES MAP A	Checked
	Approved J. A. F.
	Drawing No.
	APCC C1N



Scale

400 0 200 400 600 800 1000

Feet

0 100 200 300

Metres

Grid Size 100.000
Technique TRIANGULATION
Points plotted 94
Contour intervals
500 000 100 000 (0.000 to 70000.000)

Value Et x-999999 >>>

GEOLOGICAL BRANCH
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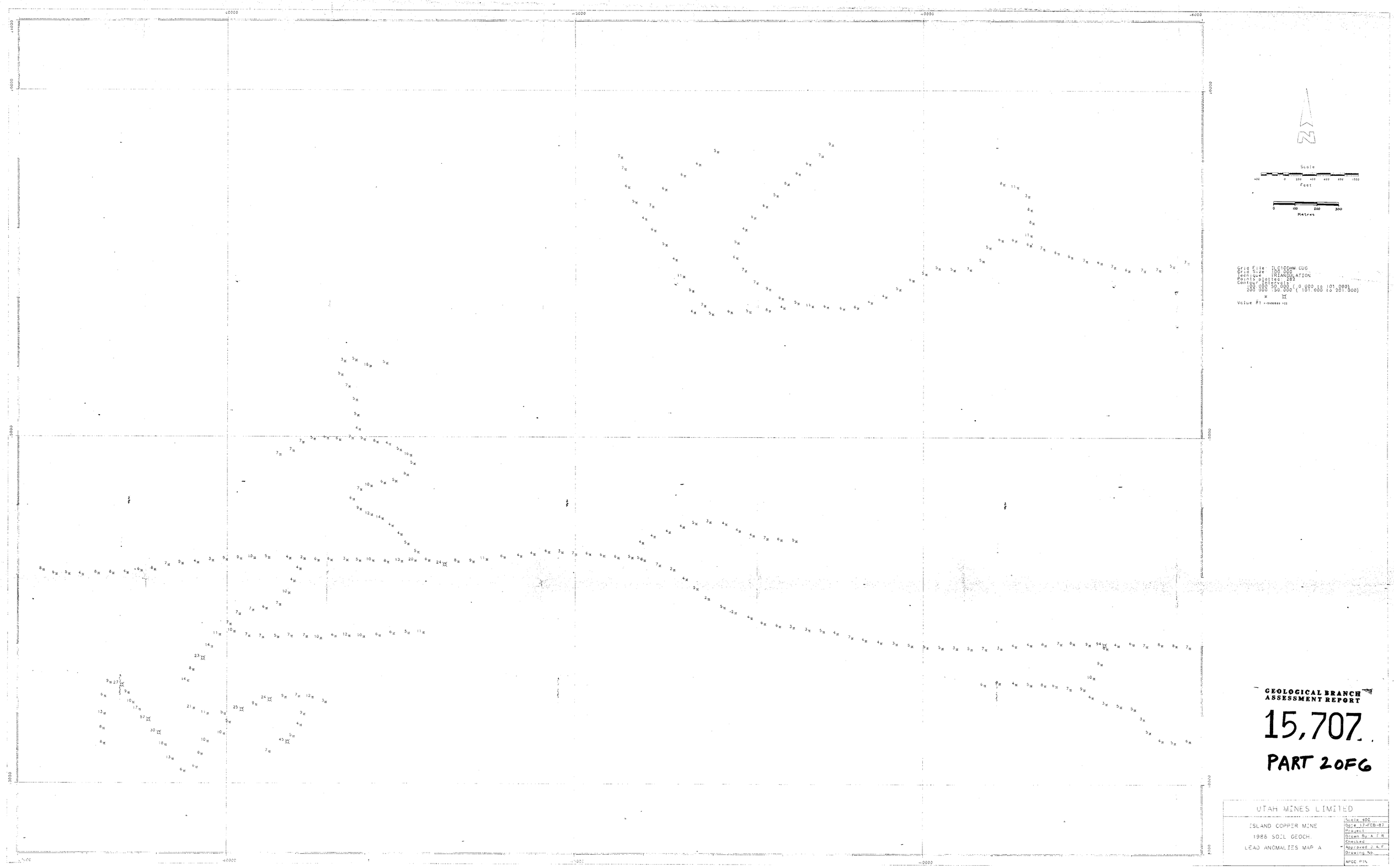
UTAH MINES LIMITED	
ISLAND COPPER MINE	Scale 400
	Date 17-FEB-87
1986 SOIL GEOCHEM	Project
	Drawn By AIR
MOLYBDENUM ANOMALIES	Checked
	Approved JAF
MAP B	Drawing No.
	APGC M2N



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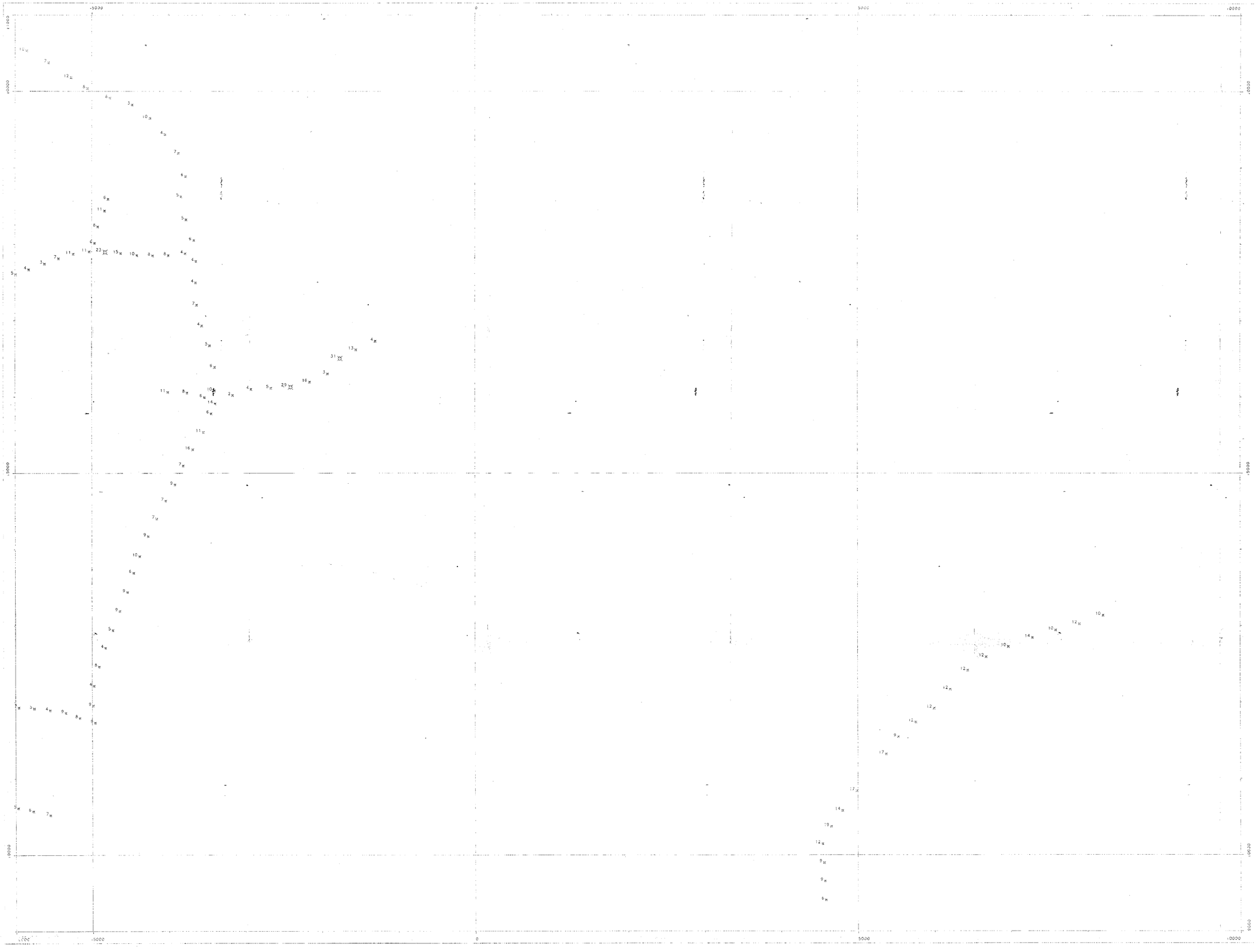
UTAH MINES LIMITED	
ISLAND COPPER MINE 1986 SOIL GEOCH. LEAD ANOMALIES MAP A	Scale 400 Date 17-FEB-87 Project Drawn By A.F.R. Checked Approved J.A.F. Drawing No. APGC PTN.



Scale

400 0 200 400 600 800 1000

Feet

0 100 200 300

Metres

Grid Size: 100.000
Technique : TRIANGULATION
Points plotted: 94
Contour intervals
500.000 100.000 (0.000 to 70000.000)

Value #1 =-999999 =32

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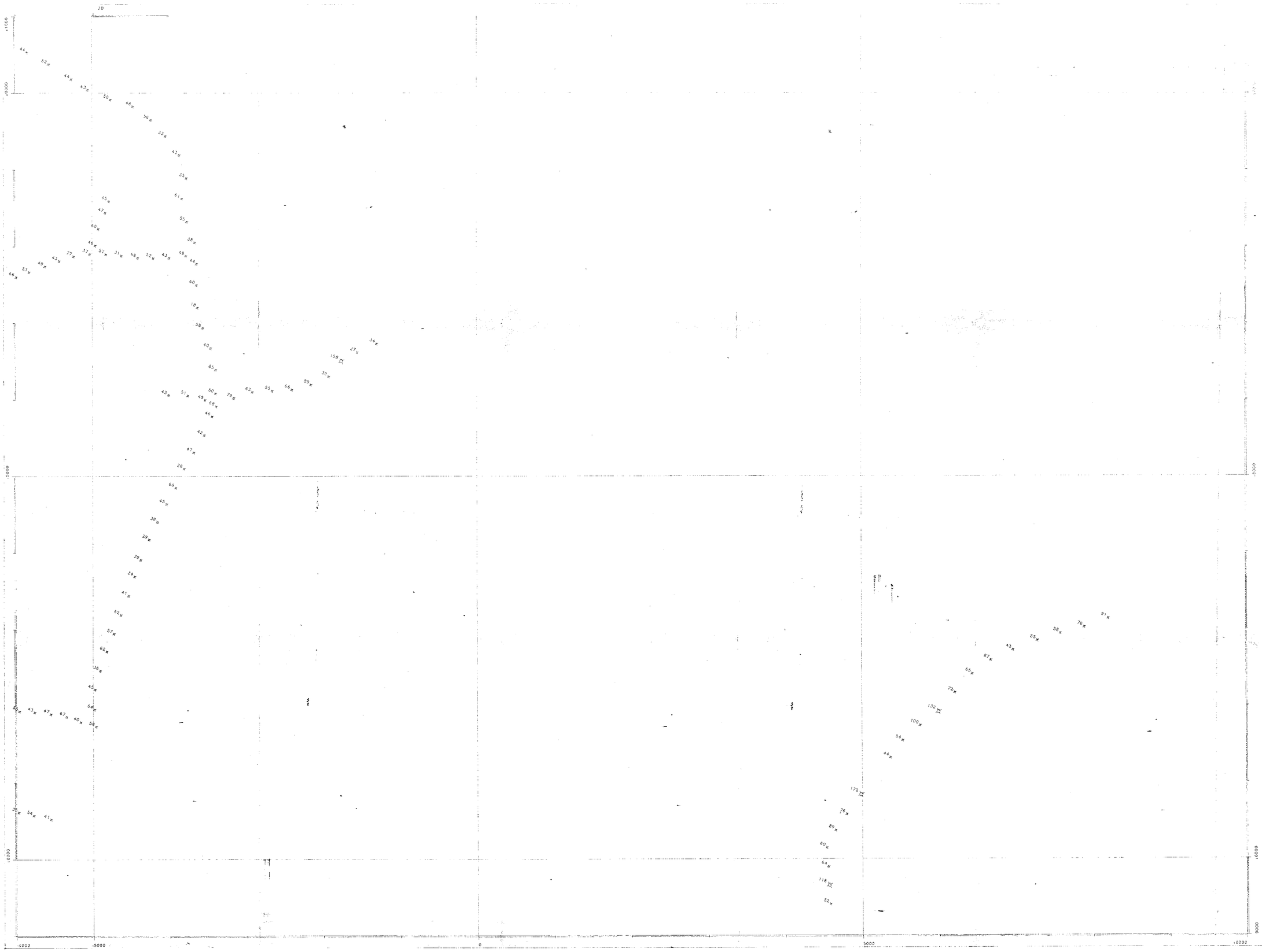
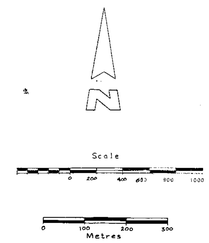
UTAH MINES LIMITED	
ISLAND COPPER MINE	Scale 400
	Date 17-FEB-87
1986 SOIL GEOCHEM	Project
	Drawn By ATR
LEAD ANOMALIES MAP B	Checked
	Approved JAF
	Drawing No
	APGC #2N





Grid File : ILCUCOHM.CUG
Grid Size : 100 000
Technique : TRIANGULATION
Points plotted : 84
Contour Intervals :
100 000 50 000 (0 000 to 101 000)
200 000 150 000 (101 000 to 201 000)

Value #1 =-9999999 =100

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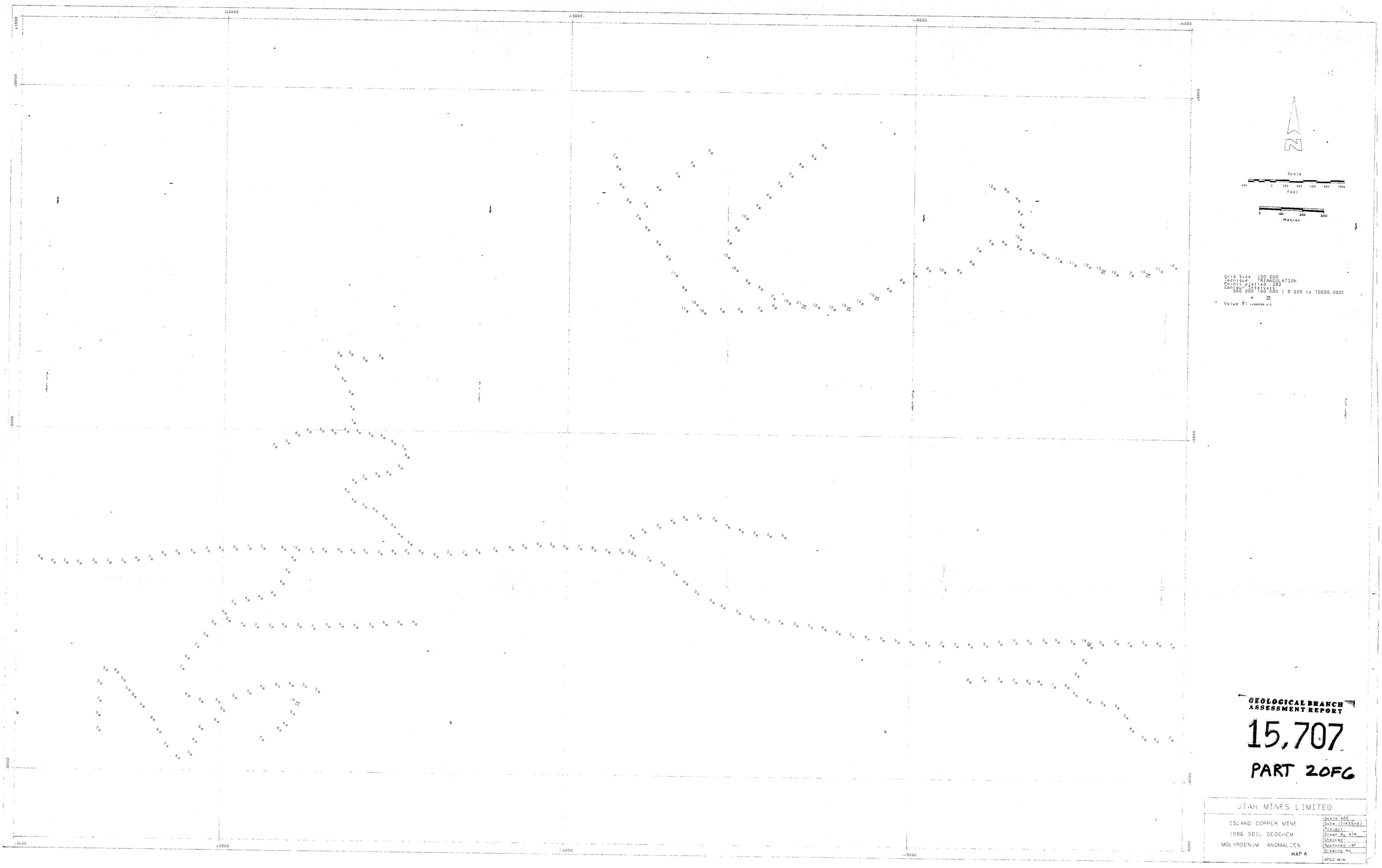
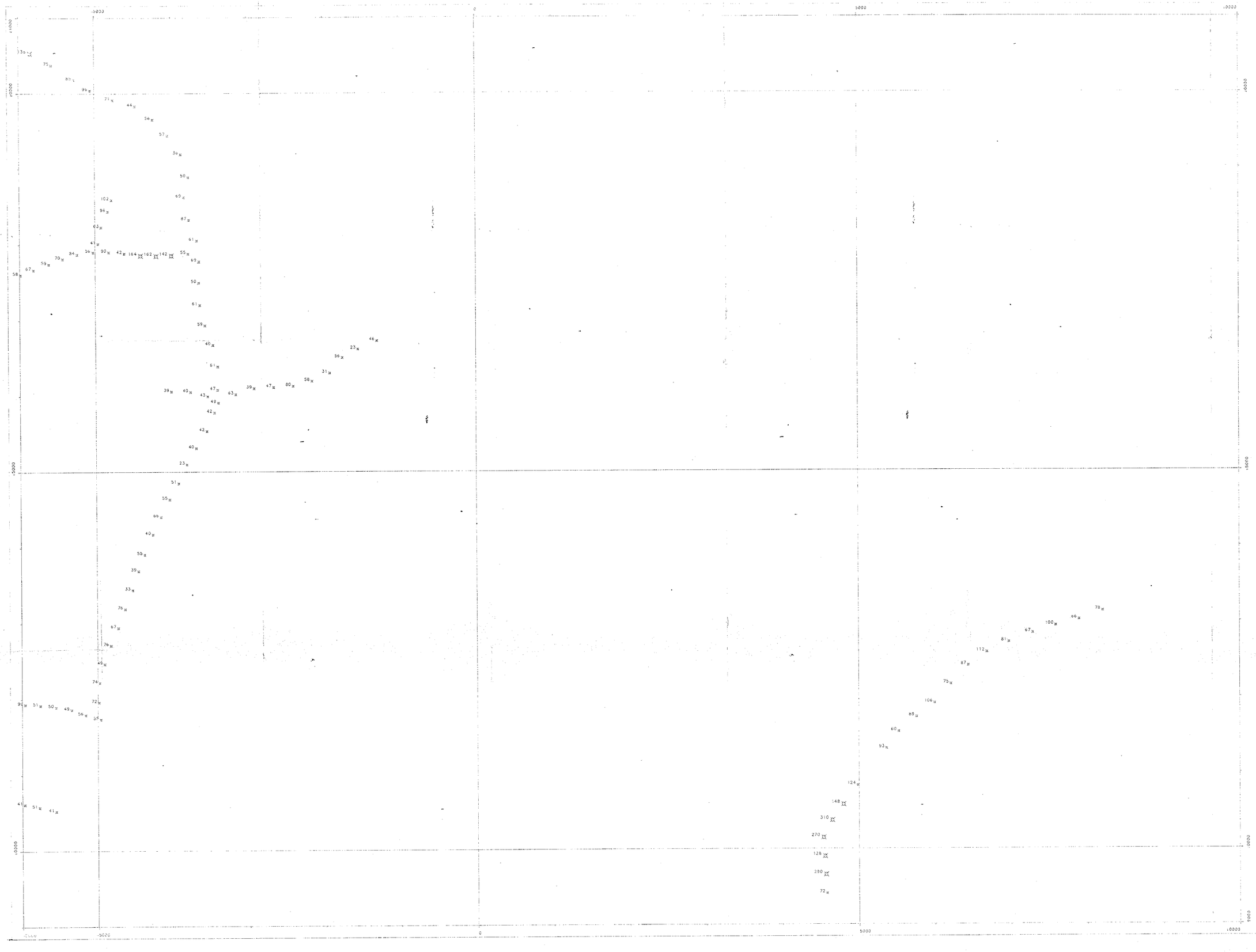
UTAH MINES LIMITED	
ISLAND COPPER MINE 1986 SOIL GEOCH. COPPER ANOMALIES MAP B	Scale 400 Date 17-FEB-87 Project Drawn By A.T.R. Checked Approved J.A.F. Drawing No. APGC C2N



UTAH MINES LIMITED

ISLAND COPPER MINE	Scale 1:400
1986 SOIL GEOCHEM	Date 17-FEB-87
MOLYBDENUM ANOMALIES	Project
MAP A	Drawn By ATR
	Checked
	Approved JAF
	Drawing No.
	APGC MIN



GEOLOGICAL BRANCH
ASSESSMENT REPORT

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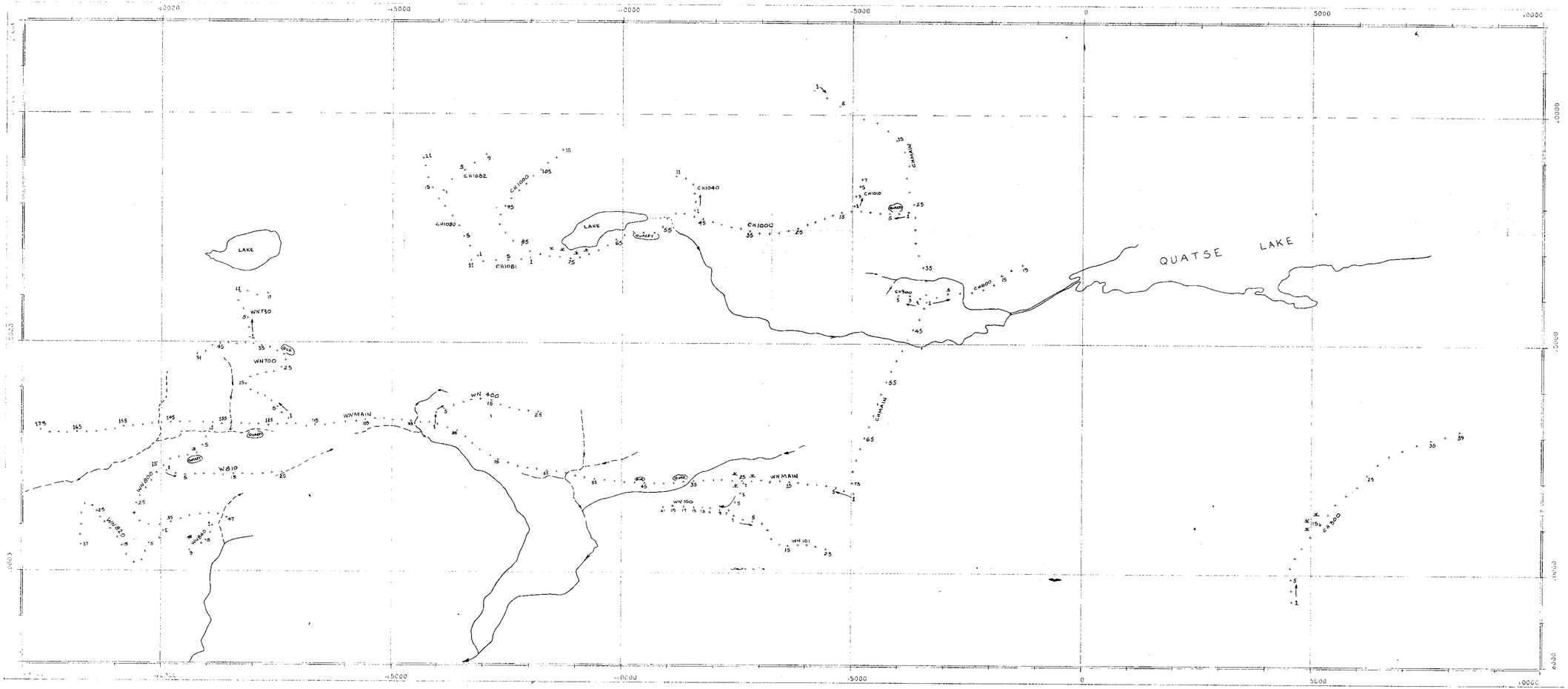
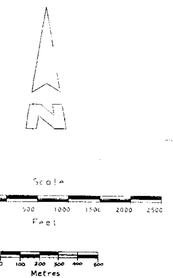
UTAH MINES LIMITED	
ISLAND COPPER MINE	Scale 400
1986 SOIL GEOCHEM	Date 17-FEB-87
ZINC ANOMALIES MAP B	Project
	Drawn By AIK
	Checked
	Approved JAF
	Drawing No
	APGC Z2N





Grid File: ILC100M.DGG
Grid Size: 100.000
Technique: TRIANGULATION
Points plotted: 176
Contour Intervals:
100 000 50 000 (0 000 to 101 000)
200 000 150 000 (101 000 to 201 000)

GEOLOGICAL BRANCH
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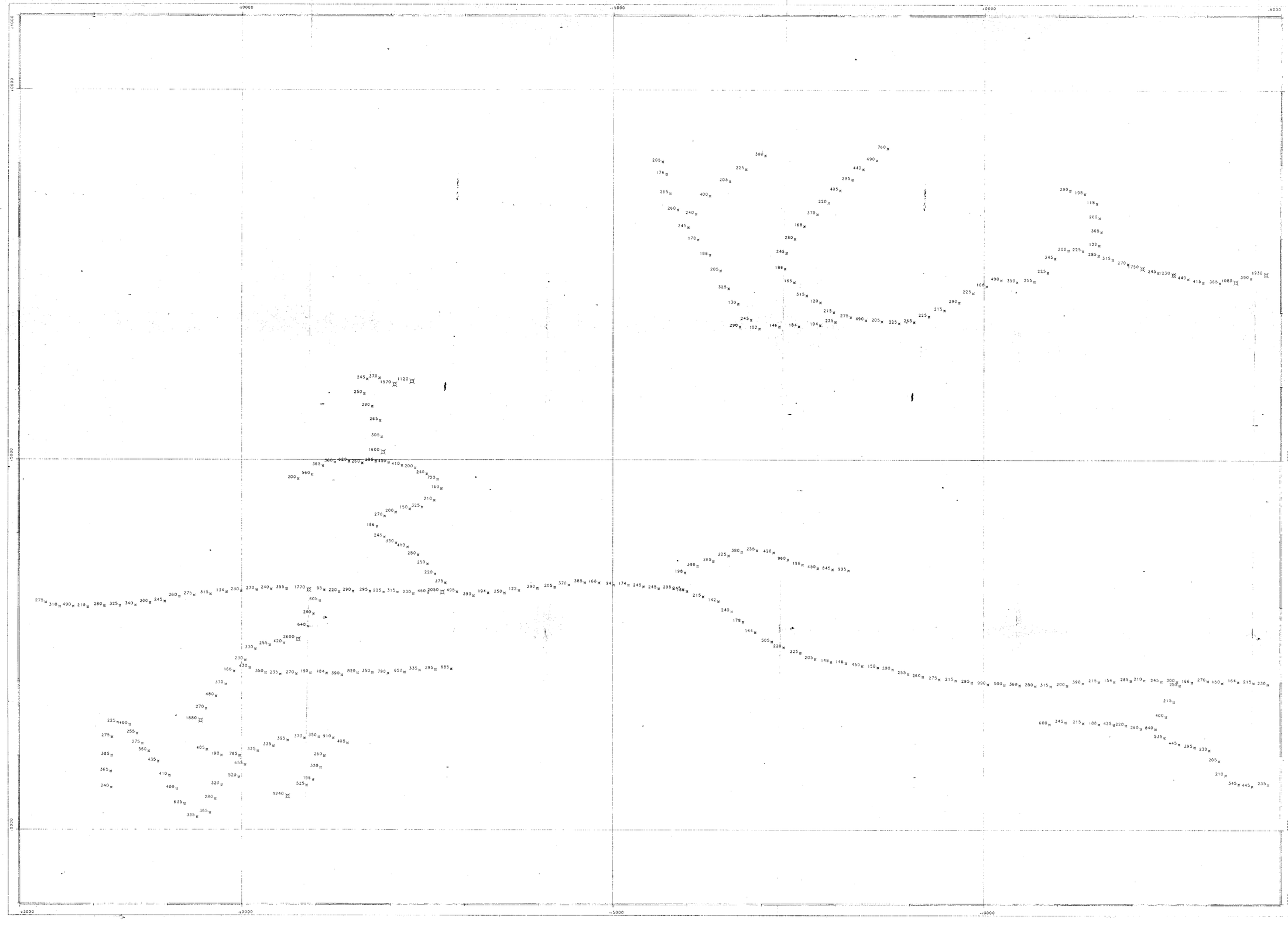
UTAH MINES LIMITED

ISLAND COPPER MINE

WEST END 1986 GEOCH.

STATION LOCATION POSTER

Scale	1:DGG
Date	17-FEB-87
Project	
Drawn By	ATR
Checked	
Approved	JAF
Drawing No.	
	APGC LC



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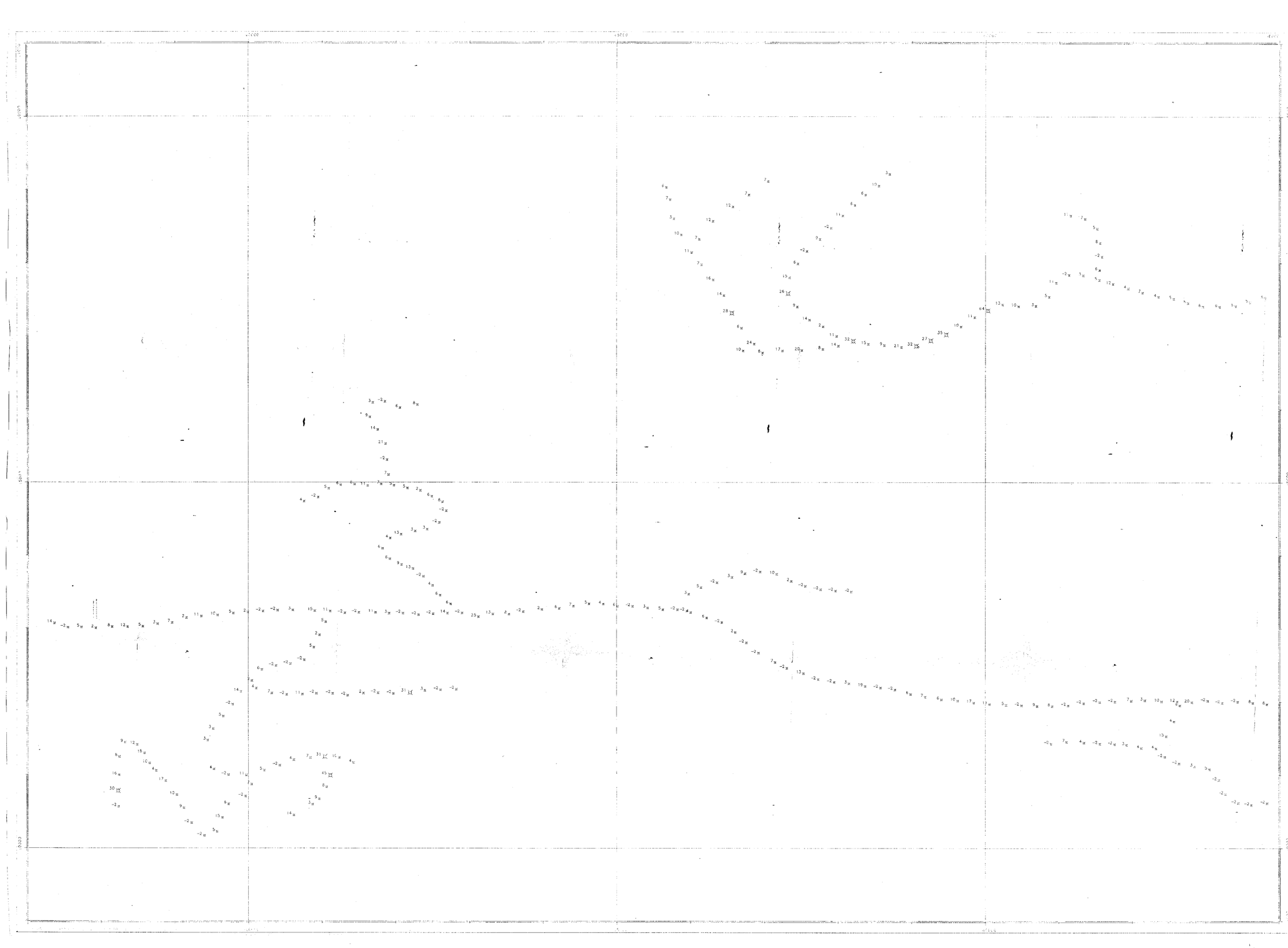
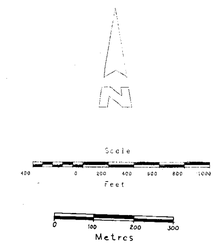
UTAH MINES LIMITED	
ISLAND COPPER MINE	Scale 400
1986 SOIL GEOCH	Date 17-FEB-87
MANGANESE ANOMALIES MAP A	Project
	Drawn By A.T.R.
	Checked
	Approved J.A.F.
	Drawing No.
	APGC MNT





Grid File: ILG1GCHM.GUG
Grid Size: 100,050
Technique: TRIANGULATION
Points plotted: 252
Contour Intervals:
ILG 100 50 100 (0.000 to 101.000)
200.000 150.000 (101.000 to 201.000)
Value #1 =

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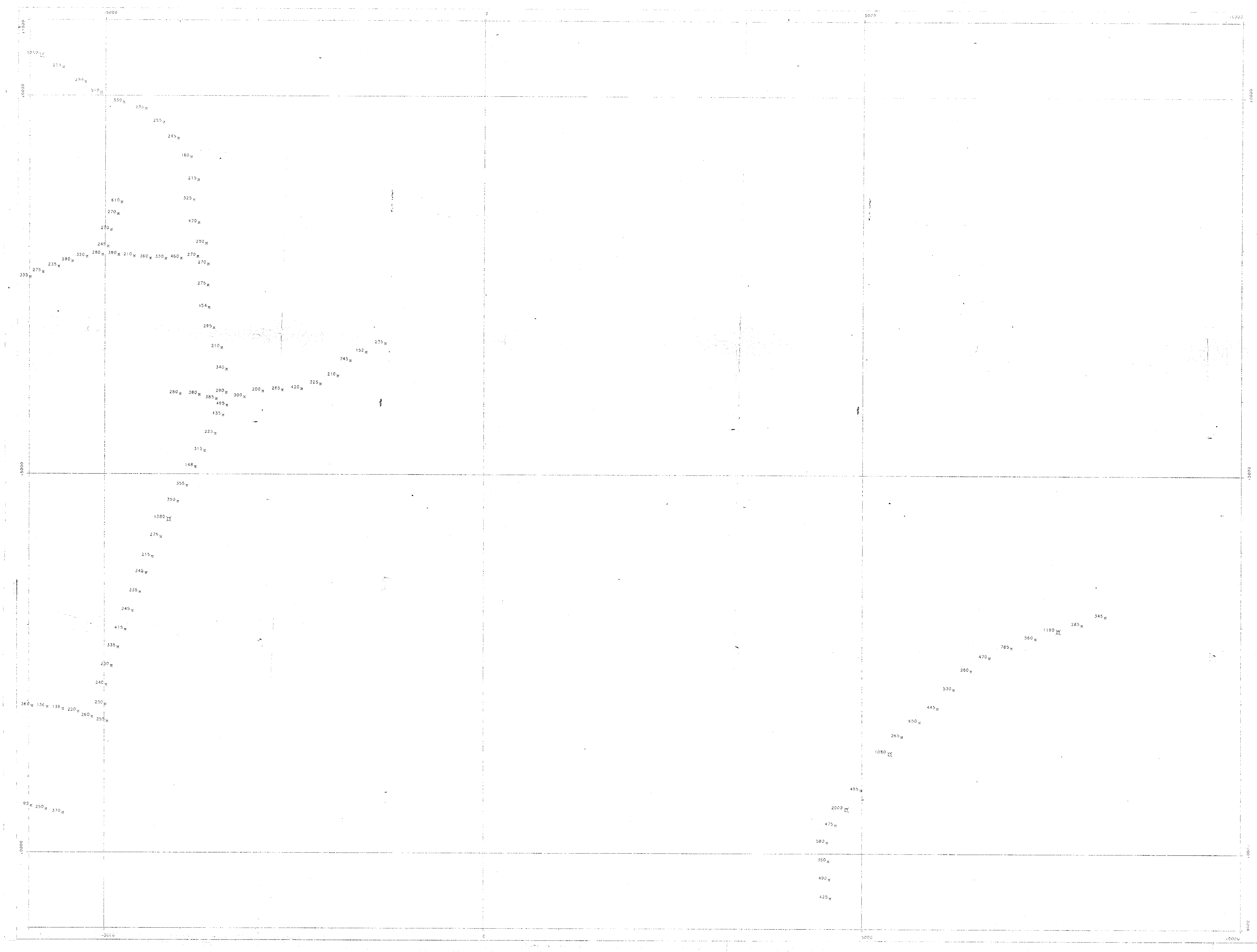
UTAH MINES LIMITED	
ISLAND COPPER MINE	Scale 400
1986 SOIL GEOCH	Date 17-FEB-87
ARSENIC ANOMALIES MAP A	Project
	Drawn By A.I.R.
	Checked
	Approved J.A.F.
	Drawing No.
	APGC A12



Scale
400 0 200 400 600 800 1000
Feet
0 100 200 300
Metres

Grid Size: 100.000
Techique : TRIANGULATION
Points plotted: 94
Contour Intervals:
500.000 100.000 (0.000 to 70000.000)

Value #1 >-999999 >1000

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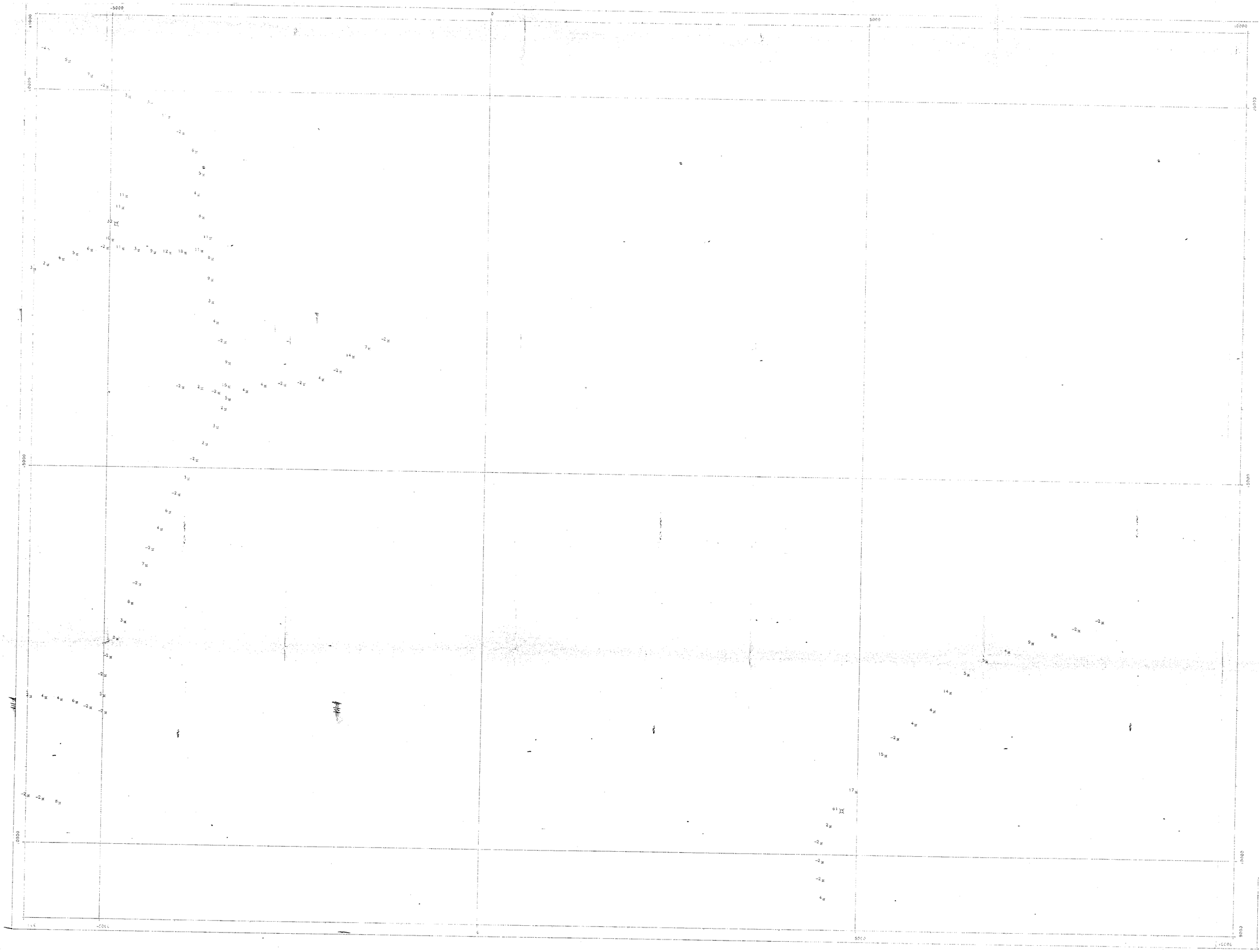
UTAH MINES LIMITED

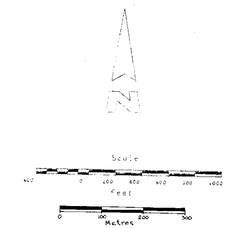
ISLAND COPPER MINE

1986 SOIL GEOCHEM

MANGANESE ANOMALIES MAP B

Scale: 400
Date: 17-FEB-87
Project
Drawn By: ATR
Checked
Approved: JAF
Drawing No
APOC. MN2





Grid Size 100 000
Technique TRIANGULATION
Points plotted 94
Contour Intervals
500 000 100 000 (0 000 to 70000 000)

Value #: [illegible]

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ASSESSMENT REPORT

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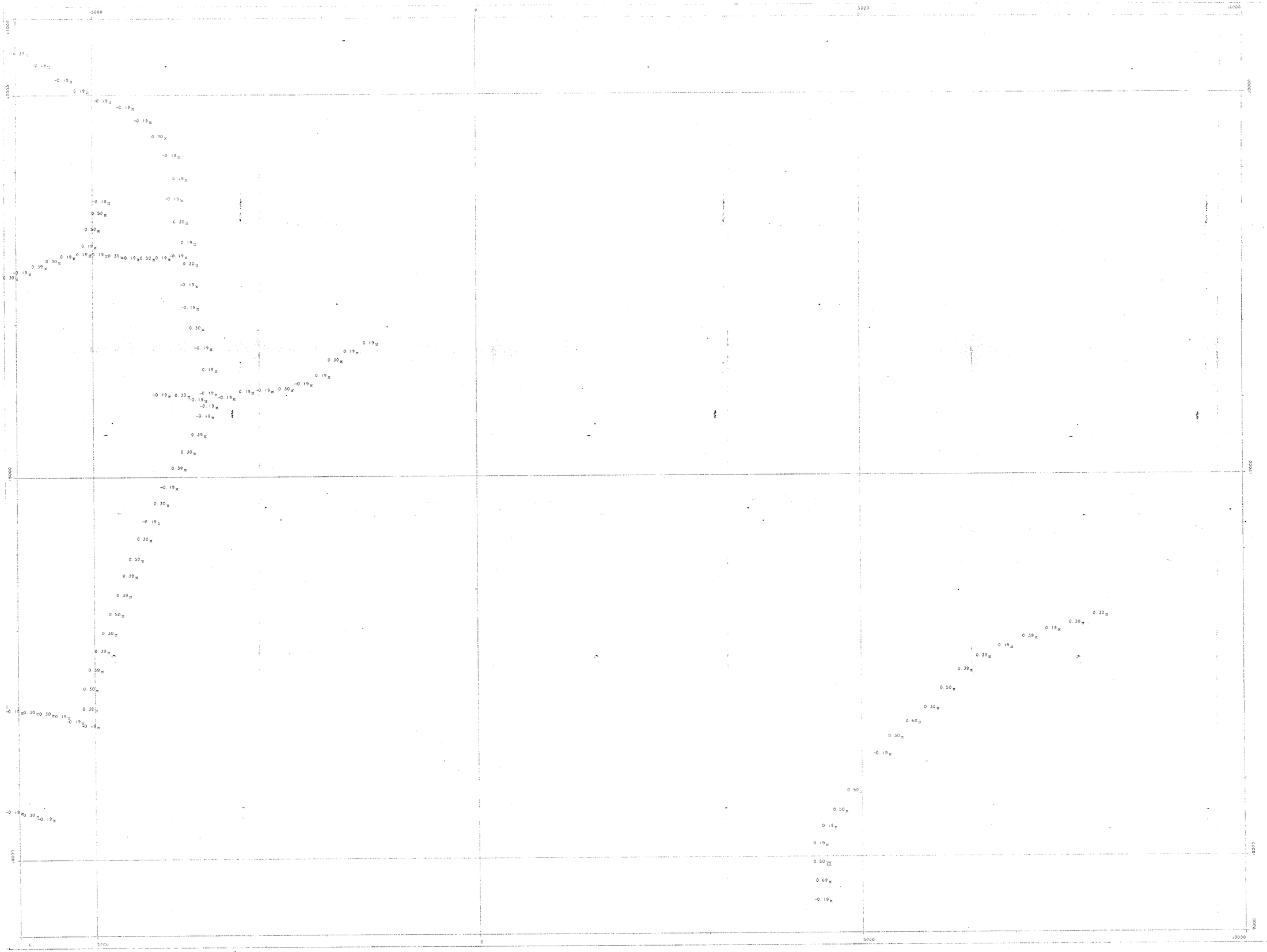
UTAH MINES LIMITED	
ISLAND COPPER MINE	Scale 400
1986 SOIL GEOCHEM	Date 17-FEB-87
	Project
ARSENIC ANOMALIES MAP B	Drawn By ATR
	Checked
	Approved JAP
	Drawing No
	APGC 42N



Scale

Feet

Metres

Grid Size 100.000
Technique TRIANGULATION
Points plotted 34
Contour Intervals
500.000 100.000 (0.000 to 70000.000)

Value #1 >-999999.00 =0.80

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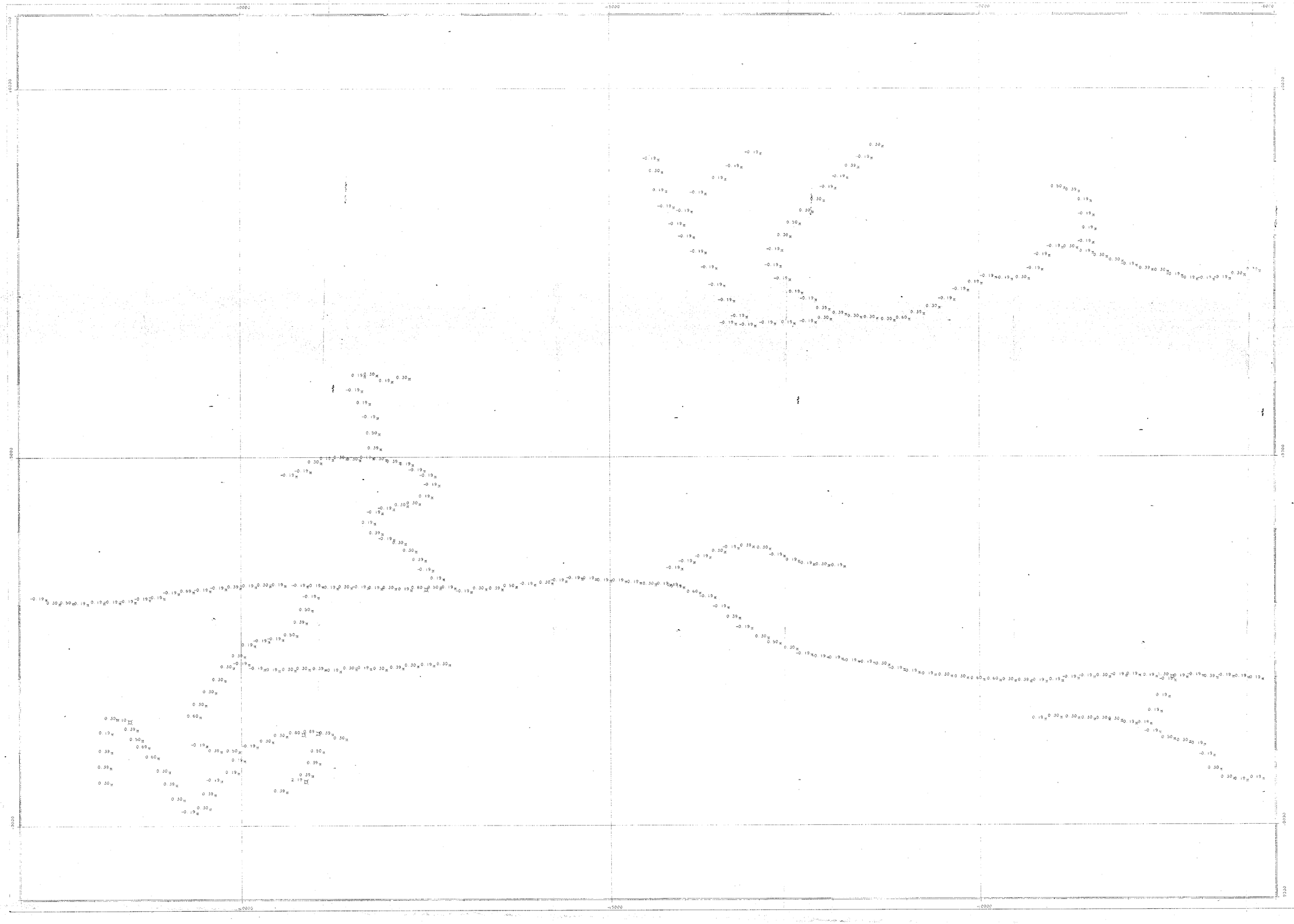
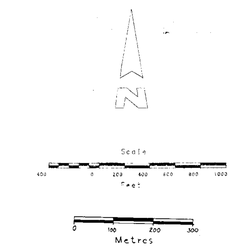
UTAH MINES LIMITED

ISLAND COPPER MINE	Scale 400
1986 SOIL GEOCHEM	Date 17-FEB-87
SILVER ANOMALIES MAP 3	Project
	Drawn By ATR
	Checked
	Approved AP
	Drawing No.
	APGC 52N





Grid File: ILCIGCHM.CUG
Grid Size: 100.000
Technique: TRIANGULATION
Points Plotted: 282
Contour Intervals:
100.000 50.000 (0.000 to 101.000)
200.000 150.000 (101.000 to 201.000)
Value #1 x=999999.00 Z=.00

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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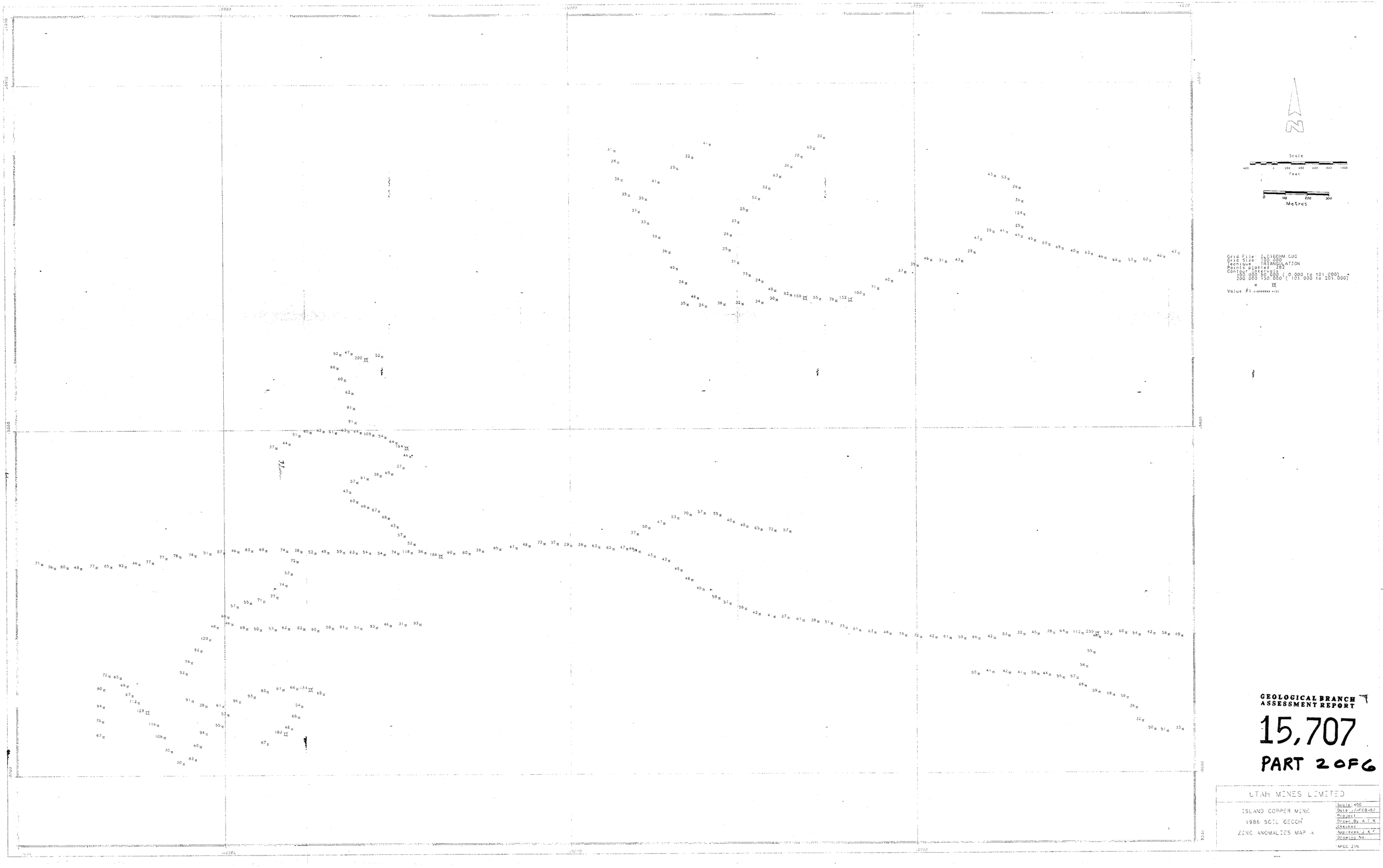
PART 20FG

UTAH MINES LIMITED

ISLAND COPPER MINE	Scale 1:400
1986 SOIL GEOCH	Date 17-FEB-87
SILVER ANOMALIES MAP A	Project
	Drawn By A.T.R.
	Checked
	Approved J.A.F.
	Drawing No.
	APGC SIN



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UTAH MINES LIMITED	
ISLAND COPPER MINE	Scale 400
1986 SOIL GEOCH	Date 17-FEB-87
ZINC ANOMALIES MAP A	Project
	Drawn By A.T.R.
	Checked
	Approved J.A.F.
	Drawing No.
	APGG ZIN