

VICTORIA

FILE M14 - 15707



Province of British Columbia

Ministry of Energy, Mines and Petroleum Resources

ASSESSMENT REPORT
TITLE PAGE AND SUMMARY

TYPE OF REPORT/SURVEY(S) <i>Geophysics, geochem, drilling</i>	TOTAL COST \$ <i>525 410.00</i>
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AUTHOR(S) *G. A. Clarke* SIGNATURE(S) _____

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED *27 Feb/87* YEAR OF WORK *1986*

PROPERTY NAME(S) *Island Copper Mine*

COMMODITIES PRESENT *Cu, Mo, Au, Ag, Fe, Cd, Ba, pyrophyllite, 13B,*

B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN *92L-62, 99, 135, 136, 137, 139, 158, 160*

MINING DIVISION *Nanaimo* NTS *92L 11W, 12E*

LATITUDE *50° 37'* LONGITUDE *127° 30'*

NAMES and NUMBERS of all mineral tenures in good standing (when work was done) that form the property [Examples: TAX 1-4, FIRE 2 (12 units); PHOENIX (Lot 1706); Mineral Lease M 123; Mining or Certified Mining Lease ML 12 (claims involved)].

Apple 1-6, Mars, Star, Sun, Moon, Mary.

OWNER(S)
(1) *Utah mines Ltd* (2) _____

MAILING ADDRESS

OPERATOR(S) (that is, Company paying for the work)
(1) *Utah Mines Ltd* (2) _____

MAILING ADDRESS

SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude):
A porphyry copper-molybdenum-gold deposit occurs in and on the flanks of a quartz-feldspar porphyry dyke that is intruding Bonanza volcanics. Some skarn development has occurred in quartzine limestone.

REFERENCES TO PREVIOUS WORK *A.R. 710, 9305, 731, 738, 8150, 11366, ~~567~~, 1079*

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	COST APPORTIONED
GEOLOGICAL (scale, area) Ground Photo			
GEOPHYSICAL (line-kilometres) <input checked="" type="checkbox"/> Ground Magnetic MAGG 18.3 km <input checked="" type="checkbox"/> Electromagnetic EMGR 12.6 km, VLF Induced Polarization Radiometric Seismic Other Airborne		see front	
GEOCHEMICAL (number of samples analysed for) <input checked="" type="checkbox"/> Soil 719, Cu, Mo, Pb, Zn, Ag, As, Mn Silt Rock Other			
DRILLING (total metres; number of holes, size) <input checked="" type="checkbox"/> Core DIAD 3127.0 m, 6 holes, NQ Non-core			
RELATED TECHNICAL <input checked="" type="checkbox"/> Sampling/assaying 627, Cu, Mo, Fe, Au, Ag, Pb, Zn Petrographic Mineralogic Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY/PHYSICAL Legal surveys (scale, area) Topographic (scale, area) Photogrammetric (scale, area) Line/grid (kilometres) Road, local access (kilometres) Trench (metres) Underground (metres)			
			TOTAL COST 525 410.00

FOR MINISTRY USE ONLY	NAME OF PAC ACCOUNT	DEBIT	CREDIT	REMARKS:
Value work done (from report) 525 410.00				
Value of work approved				
Value claimed (from statement)				
Value credited to PAC account				
Value debited to PAC account				
Accepted <i>[Signature]</i> Date	Rept. No.			Information Class (1)

Utah Mines Ltd.

Island Copper Mine

P.O. Box 370
Port Hardy, B.C., Canada
V0N 2P0
(604) 949-6326



UTAH
International

February 26, 1987

ADDENDUM TO REPORT: GEOCHEM SURVEY EAST END CLAIMS

This report contains inadvertent errors in the number of assays/samples collected and subsequently costs charged.

This was recognized too late to rectify before submission of the report. The following changes should be noted:

<u>Reported</u>	<u>Correct</u>
Crew Days 10½	6.3
Samples Collected 474	324
Samples Assayed 240	153
Total Cost: \$5,068.81	$\frac{153}{240} \times \$5,068.81 = \$3,231.37$

The cost is thus reduced by \$1,837.44. No overhead (25% of Labour) has been charged for the East and West Geochem Reports (\$1,989) which would balance this change.

J.A. Fleming
Chief Geologist

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

FILMED

:ebh

15,707
PART 10FC

UTAH MINES LTD.
ISLAND COPPER MINE

GEOCHEM SURVEY EAST END CLAIMS
(FAME REPORT)

J.A. Fleming

February 23, 1987

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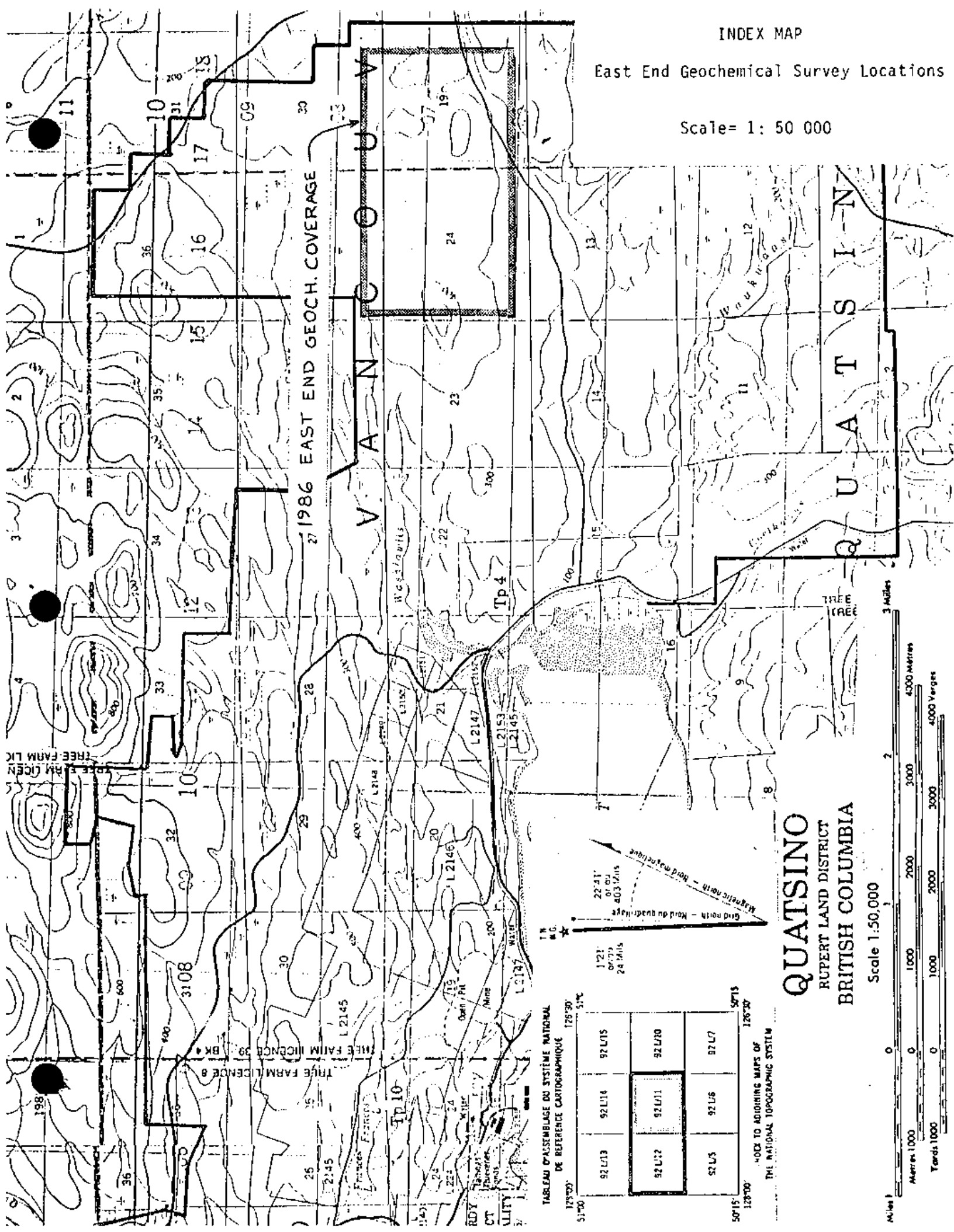
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A	LAB ASSAY SHEETS	
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Maps

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COPPER ANOMALY MAP	1:4800	" " 1
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ZINC ANOMALY MAP	1:4800	" " 2
SILVER ANOMALY MAP	1:4800	" " 3
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MANGANESE ANOMALY MAP	1:4800	" " 3

Scale = 1: 50 000



1986 EAST END GEOCH. COVERAGE

VANCOUVER

QUATSINO

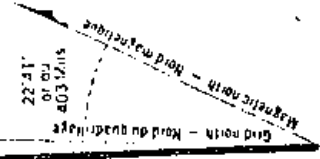
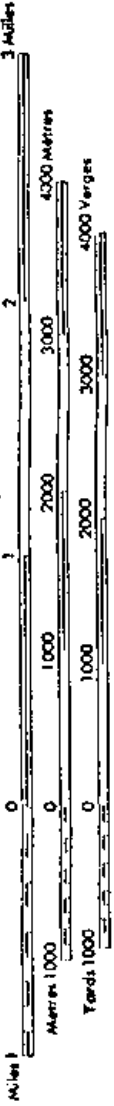
QUATSINO
RUPERT LAND DISTRICT
BRITISH COLUMBIA

Scale 1:50,000

TABLEAU D'ASSEMBLAGE DU SYSTEME NATIONAL DE REFERENCE CARTOGRAPHIQUE

126°30'	51°50'	92 L/13	92 L/14	92 L/15
126°30'	51°50'	92 L/22	92 L/21	92 L/20
126°30'	51°50'	92 L/5	92 L/6	92 L/7

VOIE TO ADJOINING MAPS OF THE NATIONAL TOPOGRAPHIC SYSTEM



1.0 INTRODUCTION

Between July 10 and August 5, 1986, a two-person sampling crew spent ten and one-half crew-days collecting soil samples from cut lines in the Far East 87 Group of Claims, east of Rupert Inlet. This was part of a soil sampling program at the east end of the 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 lines at stations set 30.5 meters apart. A total of 474 samples were collected. A total of 240 were given a DCP analysis for copper, molybdenum, lead, zinc, silver, arsenic and manganese. Generally, only every second sample (odd numbers) were submitted for assay. Alternate samples will be submitted as follow-up in anomalous areas.

The objective of the survey was to provide geochemical coverage in a part of the claim group adequate 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.

2.0 LOCATION AND ACCESS

The survey area is located in the Nanaimo Mining Division with co-ordinates $50^{\circ} 37\frac{1}{2}'N$ and $127^{\circ} 37'W$. It is located on the NTS map sheet 92L/11W 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 "Rupert" Stock underlie the area east of Rupert 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 Rupert Stock underlies the northwest corner of Rupert Inlet and the uplands cutting the Bonanza Volcanics. It is a porphyritic 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 175 meters. Washlawlis Hill, to the west of the survey area, has an elevation of 173 meters.

b) Drainage

i) Stream Drainage

Tributaries of Washlawlis Creek start on the west side of the area drain west and with a low gradient, into Rupert Inlet. The north east portion of the area drains into the Keogh River.

ii) Lakes

A lake about 610 meters ft. across, occurs on lines 139E and 147 E in the north half of the survey area. A pond 90 meters across, occurs to the south east of the lake.

iii) Bogs

Marshy ground occurs around the edges of the lake and pond.

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 sparse. Overburden thickness over the survey area is unknown, but probably exceeds 10 meters. Two drill holes on the south and west edges of the area have 15 and 33 meters of overburden respectively.

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 A horizon as the B horizon could not be reached.

iii) Vegetation

The vegetation consists mainly of coniferous, virgin forest.

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 cut lines, with alternate samples analyzed.

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. The probability curves for copper and lead represent only one population. The probability curves for zinc, moly, silver, manganese and arsenic suggest the presence of more than one population. In each of these, except for arsenic, the upper (anomalous) population is absent or only partially represented. Therefore, partitioning of the curves into separate populations was not attempted. Anomaly threshold levels

for all the elements other than arsenic were selected at between the two and five cumulative percent levels. The curve for arsenic was partitioned into two populations (A and B). The lower and upper one percent cumulative probability levels of the A and B populations respectively were selected as anomaly thresholds. These coincided at 8 ppm As and with the mid-point of the curve break. Thus, the threshold was selected at 8 ppm As. The threshold values and the basic distribution parameters are given in the following table.

Table - 1 Statistical Parameters

<u>Name</u>	<u># of Values</u>	<u>Arithmetic (ppm)</u>		<u>Anomaly Thresholds (ppm)</u>
		<u>Mean</u>	<u>Std. Dev.</u>	
Cu	173	37.2	17.9	90
Mo	155	5.2	1.9	8
Pb	77	3.0	1.3	5
Zn	173	35.6	30.9	100
Ag	26	0.38	0.11	0.6
As	39	4.9	3.9	8
Mn	173	314.2	464.8	1500

The assay values for all elements are plotted on the 1:4800 scale maps. The station symbols are two sizes; small for background values and larger for anomalous values.

A. Reeves, A. Sc.T. of the Geology Department prepared the maps and did a preliminary evaluation of the anomalies.

7.0 RESULTS

The metal levels are low overall with anomalies at or just above the selected threshold levels. Most of these weak anomalies have been collected from the A-horizon with probable enhancement by scavenging effect of the organic material. Sample 155E, 91N has the highest copper assay at 150 ppm Cu. This will be followed up by assaying the even numbered sample next to it.

The two lines across Washlawlis Hill were run to check questionable anomalies from the previous year's survey. The results of this year's work show that the previous anomalies were false and probably the result of contamination in handling or processing. However, two samples (58E 87N and 89N) have marginal anomalies in moly, zinc, silver, arsenic and manganese (sample 89N only) and may represent weak mineralization in the underlying Parson Bay sediments and tuffs. The hill has rocky ground with generally thin overburden. Even numbered samples surrounding these samples will be assayed as follow-up.

8.0 CONCLUSIONS

The two areas have low background levels of all elements considered and only low level anomalies which are considered to be a product of threshold level selection rather than reflecting significant mineralization in the underlying formations. The drill holes bordering the area were unmineralized and thus probably represent the nature of the ground covered by the survey. Limited follow-up assays will be done to check two of the anomalies.

9.0 COST STATEMENTLabour:

Prorated Cost Base on 474 collected (28% of total)	\$3,537.84
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Assays:

Prorated Cost For 240 Assays (27%)	1,106.50
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Truck Rental

(28% of total)	382.95
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Supplies:

(28% of total)	<u>44.52</u>
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Total Cost:	\$5,068.81
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Cost per Sample Collected: \$10.69

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.

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% hydrochloric 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 94009
 Phone: (408) 744-1600

Project Island Copper Recon.
 Charge: Island Cu Geo.

Submitted by J. Fleming
 Minerals Lab No. B6- 620

SAMPLE ID	ppm CU	ppm MO	ppm PB	ppm ZN	ppm AG	ppm MN	ppm AS
115E-133N	47	6	2	35	-0.2	150	-2
115E-135N	46	7	-2	37	-0.2	164	-2
115E-137N	38	6	-2	39	-0.2	140	-2
115E-141N	38	6	-2	32	-0.2	140	2
115E-143N	26	3	4	37	-0.2	90	-2
115E-145N	48	7	2	33	-0.2	162	4
115E-147N	27	7	4	33	0.2	120	-2
115E-149N	23	6	4	39	-0.2	186	2
123E-87N	42	7	3	36	-0.2	260	-2
123E-89N	37	2	-2	14	-0.2	34	-2
123E-91N	25	8	3	32	-0.2	110	-2
123E-93N	53	5	2	46	-0.2	245	-2
123E-95N	39	7	-2	32	-0.2	355	2
123E-97N	66	6	-2	40	-0.2	520	-2
123E-99N	50	7	-2	34	-0.2	340	2
123E-101N	31	6	-2	32	-0.2	330	-2
123E-103N	43	7	-2	34	-0.2	895	-2
123E-105N	37	6	-2	33	-0.2	260	-2
123E-107N	34	7	2	24	-0.2	162	-2
123E-109N	38	6	-2	28	-0.2	265	3
123E-111N	31	7	3	32	0.2	225	-2
123E-113N	31	6	2	31	-0.2	174	-2
123E-115N	47	6	-2	33	-0.2	180	-2
123E-117N	35	8	-2	30	-0.2	240	2
123E-119N	47	6	-2	32	0.3	2050	-2
123E-121N	39	6	2	32	-0.2	380	4
123E-123N	41	9	-2	25	0.3	300	-2
123E-125N	49	7	-2	54	-0.2	615	-2
123E-127N	54	7	-2	50	-0.2	570	-2
123E-129N	39	7	-2	55	-0.2	1320	-2
123E-131N	51	6	3	43	0.3	245	-2
123E-133N	47	4	-2	40	-0.2	180	-2
123E-135N	35	7	3	34	-0.2	200	-2
123E-137N	47	7	-2	34	-0.2	164	-2
123E-139N	48	5	-2	36	-0.2	172	2
123E-141N	43	6	-2	46	-0.2	200	-2
123E-143N	35	6	-2	29	-0.2	168	2
123E-145N	54	5	-2	59	-0.2	260	-2
123E-147N	33	5	2	18	-0.2	134	-2
123E-149N	43	8	4	39	0.2	146	-2
131E-91N	59	5	3	31	-0.2	158	8
131E-93N	35	5	-2	45	-0.2	290	-2
131E-95N	39	6	-2	41	-0.2	176	-2
131E-97N	41	7	-2	25	-0.2	156	-2
131E-99N	50	6	-2	34	-0.2	345	-2
131E-101N	53	5	-2	45	-0.2	340	-2
131E-103N	39	7	-2	35	0.2	845	2

Report of Chemical Analysis

UTAH International Inc. Minerals Laboratory
 1190 Bordeaux Drive
 Sunnyvale, California 94809
 Phone: (408) 744-1600

Project Island Copper Recon.
 Charge: Island Cu Geo.

Submitted by J. Fleming
 Minerals Lab No. 86- 620

SAMPLE ID	ppm CU	ppm MD	ppm PB	ppm ZN	ppm AG	ppm MN	ppm AS
131E-105N	41	6	-2	36	-0.2	395	6
131E-107N	49	6	-2	43	0.2	420	5
131E-109N	47	6	-2	45	-0.2	200	-2
131E-111N	41	6	-2	45	-0.2	270	-2
131E-115N	66	6	2	46	-0.2	285	3
131E-117N	32	7	2	36	-0.2	390	-2
131E-119N	46	5	-2	34	-0.2	180	2
131E-121N	53	6	-2	47	-0.2	215	-2
131E-123N	53	6	-2	52	-0.2	200	-2
131E-125N	20	7	-2	19	-0.2	104	-2
131E-129N	11	-1	2	16	-0.2	100	-2
131E-131N	46	5	-2	35	-0.2	180	-2
131E-133N	11	-1	2	18	-0.2	46	-2
131E-135N	22	-1	4	8	-0.2	43	-2
131E-137N	11	-1	3	13	-0.2	132	-2
131E-139N	43	6	2	40	-0.2	178	5
131E-141N	32	8	3	30	-0.2	154	-2
131E-143N	46	6	-2	37	-0.2	176	-2
131E-145N	26	1	3	18	-0.2	44	4
131E-147N	12	-1	-2	10	-0.2	42	-2
131E-149N	56	7	-2	43	-0.2	220	-2
139E-95N	14	-1	3	18	-0.2	78	-2
139E-97N	18	2	4	32	0.3	695	-2
139E-99N	19	4	3	16	-0.2	122	2
139E-107N	57	4	-2	38	-0.2	230	-2
139E-109N	43	5	2	44	-0.2	315	-2
139E-111N	55	6	-2	46	-0.2	245	-2
139E-113N	41	6	-2	34	0.2	188	-2
139E-115N	27	6	2	27	0.2	138	-2
139E-117N	22	5	3	25	-0.2	172	-2
139E-119N	46	3	-2	33	-0.2	300	-2
139E-121N	56	3	2	10	-0.2	42	-2
139E-123N	51	3	-2	40	-0.2	225	-2
139E-125N	16	-1	2	7	-0.2	39	-2
139E-127N	23	2	3	16	-0.2	62	-2
139E-129N	26	3	3	20	-0.2	154	-2
139E-131N	23	1	3	9	-0.2	84	-2
139E-135N	17	1	3	15	-0.2	102	-2
139E-137N	30	5	-2	27	-0.2	140	-2
139E-139N	29	6	-2	21	-0.2	128	-2
139E-141N	14	-1	-2	10	-0.2	400	-2
139E-143N	17	-1	-2	8	-0.2	14	-2
139E-145N	32	2	-2	6	-0.2	78	6
139E-147N	27	2	12	30	-0.2	144	13
139E-149N	21	4	4	18	-0.2	100	-2
147E-B1N	9	-1	-2	9	-0.2	186	-2
147E-B3N	57	4	-2	33	-0.2	340	-2

Report of Chemical Analysis

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Project Island Copper Recon.
 Charge: Island Cu Geo.

Submitted by J. Fleming
 Minerals Lab No. 86- 620

SAMPLE ID	ppm CU	ppm MO	ppm PB	ppm ZN	ppm AG	ppm MN	ppm AS
147E-85N	35	4	-2	23	-0.2	235	-2
147E-87N	34	3	-2	32	-0.2	220	-2
147E-89N	21	3	-2	17	-0.2	174	-2
147E-91N	58	3	-2	20	-0.2	110	-2
147E-93N	28	4	-2	34	-0.2	210	-2
147E-95N	33	5	-2	33	-0.2	210	-2
147E-97N	52	7	-2	73	0.3	270	-2
147E-99N	52	6	-2	65	0.3	295	-2
147E-101N	20	-1	-2	13	-0.2	37	-2
147E-131N	14	4	-2	16	-0.2	148	-2
147E-133N	26	6	3	22	-0.2	97	-2
147E-135N	26	3	2	21	-0.2	128	-2
147E-137N	22	1	-2	7	-0.2	148	-2
147E-139N	23	6	4	21	-0.2	79	-2
147E-141N	38	6	2	38	-0.2	138	-2
147E-143N	15	2	-2	9	-0.2	160	2
147E-145N	37	7	-2	38	-0.2	152	-2
147E-147N	49	6	-2	34	-0.2	255	-2
147E-149N	35	4	-2	43	-0.2	405	17
155E-91N	150	5	-2	51	0.3	540	-2
155E-93N	37	6	2	34	-0.2	188	-2
155E-95N	53	4	2	40	0.2	345	-2
155E-97N	28	6	-2	29	0.2	585	-2
155E-99N	37	5	-2	45	0.3	765	5
155E-101N	31	4	2	41	0.2	182	-2
155E-103N	66	2	3	17	0.2	800	-2
155E-105N	51	5	2	62	-0.2	470	-2
155E-107N	11	-1	3	12	-0.2	93	-2
155E-109N	59	5	-2	52	-0.2	240	-2
155E-111N	50	7	2	46	-0.2	285	-2
155E-115N	39	4	3	28	-0.2	260	-2
155E-117N	38	5	-2	45	0.2	285	3
155E-119N	38	6	-2	33	0.3	300	-2
155E-121N	33	6	3	27	0.2	162	-2
155E-123N	48	5	2	53	-0.2	425	-2
155E-125N	53	4	-2	54	-0.2	400	6
155E-127N	38	3	2	55	-0.2	280	-2
155E-129N	26	1	2	19	-0.2	28	-2
51E-76N	.	.	.	.	.	.	.
51E-75N	24	1	5	24	-0.2	445	-2
51E-78N	.	.	.	.	.	.	.
51E-77N	32	2	3	32	-0.2	42	-2
51E-80N	.	.	.	.	.	.	.
51E-79N	20	7	-2	16	-0.2	88	-2
51E-82N	.	.	.	.	.	.	.
51E-81N	44	6	-2	35	-0.2	154	-2
51E-84N	.	.	.	.	.	.	.

Report of Chemical Analysis

UTAH International Inc. Minerals Laboratory
 1190 Bordeaux Drive
 Sunnyvale, California 94809
 Phone: (408) 744-1600

Project Island Copper Recon.
 Charge: Island Cu Geo.

Submitted by J. Fleming
 Minerals Lab No. 86- 620

SAMPLE ID	ppm CU	ppm MO	ppm PB	ppm ZN	ppm AG	ppm MN	ppm AS
51E-83N	31	6	-2	20	-0.2	345	-2
51E-86N	.	.	.	.	.	.	.
51E-85N	43	6	-2	30	-0.2	550	-2
51E-88N	.	.	.	.	.	.	.
51E-87N	43	6	3	27	-0.2	275	-2
51E-90N	.	.	.	.	.	.	.
51E-89N	35	6	-2	31	-0.2	265	-2
51E-92N	.	.	.	.	.	.	.
51E-91N	43	6	-2	44	-0.2	595	-2
51E-94N	.	.	.	.	.	.	.
51E-93N	9	-1	3	10	-0.2	33	-2
51E-96N	.	.	.	.	.	.	.
51E-95N	26	4	5	35	-0.2	370	4
51E-100N	.	.	.	.	.	.	.
51E-97N	.	.	.	.	.	.	.
51E-102N	.	.	.	.	.	.	.
51E-99N	7	-1	3	47	-0.2	29	-2
51E-104N	.	.	.	.	.	.	.
51E-101N	18	4	3	12	-0.2	40	-2
51E-105N	19	8	-2	23	-0.2	3550	-2
51E-103N	50	4	-2	39	-0.2	162	2
59E-88N	.	.	.	.	.	.	.
59E-87N	27	7	-2	43	-0.2	700	-2
59E-90N	.	.	.	.	.	.	.
59E-89N	89	7	3	240	0.6	2050	11
59E-92N	.	.	.	.	.	.	.
59E-91N	85	10	-2	192	0.4	395	13
59E-94N	.	.	.	.	.	.	.
59E-93N	12	-1	3	20	-0.2	52	5
59E-96N	.	.	.	.	.	.	.
59E-95N	38	1	4	33	-0.2	31	3
59E-97N	28	6	5	17	-0.2	55	-2

5/E | ① July 10/86

106	B 7	N	OB	MM
105	B 3	N	OB	LL
104	B 10	L	O	LL
103	B 26	L	O	LL
102	F 12	L	BK	MM
101	F 16	L	BK	MM
100	B 20	L	OB	LL
99	A 26	SY	BK	MM
98	A 20	SY	BK	HL
97	NO SAMPLE SWAMP			
96	AB 20	SY	L Br.	MM
95	A 25	SY	BK	HL
94	A 18	SY	BK	HL
93	F 9	L	BK	HL
92	B 16	N	O	LL
91	AB 8	N	OB	LL
90	B 16	N	OB	LL
89	B 12	N	OB	LL
88	B 10	N	O	LL
87	S 11	N	OB	ML
86	B 14	S	O	ML
85	B 10	S	OB	LL
84	B 14	S	OB	LL
83	B 12	S	O	HL
82	B 12	S	OB	LL

L5/E | July 10/86 ⑤

81	B 20	S	O	LL
80	B 16	S	O	ML
79	B 8	S	OB	ML
78	L 14	S	OB	LL
77	A 16	S	BK	MM
76	A 25	L	BK	HL
75	A 24	L	BK	HL
74				
73				
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L 115E

Aug 5/86

STN	HOR	DEP	TOP	COL	ORG	CLY	REMARKS
150N	B	10	L	RO	M	L	Side of ROAD
149N	AB	20	N	GB	H	M	Cut brush
148N	AB	10	N	BR	M	H	
147N	B	12	L	OR	H	L	
146N	B	12	L	RO	L	L	
145N	B	16	L	OB	L	M	
144N	A	12	SY	BR	H	L	
143N	A	16	SY	GB	H	L	
142N	B	12	L	OR	L	L	
141N	B	16	L	OB	H	L	
140N	A	14	SY	GB	H	L	
139N	B	12	L	OR	M	L	
138N	B	10	S	OR	H	L	Cat trail
137N	B	8	SY	OG	L	L	Cat trail
136N	B	10	SY	OB	L	L	Cat trail
135N	AB	18	N	GOB	L	L	Cut brush
134N	B	18	N	OR	L	L	" "
133N	B	10	N	OR	L	L	" "
132N	AB	14	N	OB	L	L	Tree line.

L 123E

Aug 1/86

STN	HOR	DEP	TOP	COL	ORG	CLY	REMARKS
119N	AB	12	T	OB	M	L	Trees
118N	B	10	T	RO	L	L	" "
117N	B	8	T	OB	H	L	" "
116N	B	10	S	OR	L	L	" "
115	B	14	S	OR	H	L	" "
114	AB	18	S	OR	L	L	" "
113	B	12	L	OR	M	L	" "
112	B	14	L	OR	L	L	" "
111	B	14	L	OR	H	L	" "
110	B	16	S	OR	H	L	" "
109	B	16	S	OR	L	L	" "
108	B	14	S	OR	H	L	" "
107	B	10	V	GOB	L	L	" "
106	B	14	N	OB	L	L	" "
105	B	10	W	OR	H	L	" "
104	B	8	W	OR	M	L	" "
103	B	10	W	OR	H	L	" "
102	B	12	W	OR	H	L	" "
101	B	14	W	OB	M	L	" "
100	AB	12	S	OB	L	L	" "
99	B	8	S	OR	M	L	" "
98	B	12	S	OR	H	L	" "
97	B	10	S	OR	L	L	" "
96	B	12	L	OR	L	L	" "
95	B	10	L	OB	M	L	" "

L1230

Aug 1/00

STN	TOP	DEP	TOP	COL	ORG	CLY	REMARKS
94	N	B	14	L	OR	M L	tall trees
(93	B	12	S	OR	L L		↓
92	A	22	S	BR	H L		
91	AB	28	S	OB	H H		Tree line
(90	A	16	S	BK	H L		
89	A	16	L	BU	H L		
88	B	14	L	OR	L L		
(87	B	14	L	OR	H L		
86	N	A	16	L	BU	H L	

L1230

Aug 2/00

STN	TOP	DEP	TOP	COL	ORG	CLY	REMARKS
120	N	B	10	L	OR	L L	
(121	B	12	L	OR	M L		
122	B	10	L	RO	M L		
123	B	10	L	RO	M L		
(124	B	8	S	OR	L L		
125	B	10	T	OR	L L		
126	B	12	L	RO	M L		
(127	B	6	L	OR	L L		
128	AB	12	L	OR	M L		
129	AB	16	L	OR	L H		Tree line
130	B	12	N	OR	M L		Cut trees
131	B	6	N	OR	M L		
132	B	8	N	OR	M L		
133	B	10	N	OR	M L		
134	B	8	N	OR	L L		
(135	B	10	N	OR	M L		
136	B	10	L	OR	H M		
137	B	12	L	OR	L H		CAI
138	B	10	S	OR	L L		
(139	B	10	T	OR	L L		RBA 2
140	B	20	L	OR	L L		CUT TREE
(141	B	10	L	OR	L L		
142	B	12	L	RO	L L		ROAD TO THE RIGHT
143	AB	10	10	OB	H L		

L123E

Aug 2/86

HOR. DEP. TOP COL. ORG. CLY. REMARKS

144	UNB	12.5	BR	M	L	
(	145	B	14	L	OR	L L CAT TRAIL
	146	B	14	V	OR	M L
	147	A	16.5	Y	OR	H L
(	148	A	16.5	Y	OR	H L
	149	B	12.5	Y	OR	M L
	150	B	10	W	OR	L L

L131E

Aug 1/86

	91	N	A	20	L	GBK H M OFF ROAD
(	92	AB	22	L	OR	M L Tall Trees
	93	A	20	S	BR	H L
	94	B	10	S	OR	L L
(	95	B	14	S	OR	L L
	96	B	12	S	OR	M L
	97	AB	16	S	OR	L L
(	98	B	8	S	OR	M L
	99	B	6	S	OR	L L
	100	B	10	S	OR	M L
	101	B	8	S	OR	L L
	102	B	6	S	OR	M L
	103	B	12	T	OR	L L
	104	B	10	T	OR	L L
	105	B	12	N	OR	L L
(	106	B	10	N	OR	L L
	107	B	8	N	OR	L L
	108	B	10	N	OR	M L
(	109	B	6	T	OR	L L
	110	B	8	T	OR	L L
	111	B	16	N	OR	L L CAT TRAIL
(	112	B	10	N	OR	L L SLASH
	113	B	14	N	YO	L H
	114	B	8	N	OR	M L
	115	B	6	E	YO	H L

L131E Aug 2/85

STN HORROR FIVE (at) Obj City, Pennsylvania

125B	10	N	OR	L	L		
(125A	22	N	OR	L	L		
124B	8	L	OR	L	L		
123B	8	L	OR	L	L		
(122A	20	E	OR	H	M		
121B	8	E	OR	L	L	TREE LINE SLASH	
120B	10	E	OR	H	L	ROAD	
(119B	10	E	OR	L	L	ROAD SLASH	

MUTUAL

L139E July 31/86

STN	HR	DIR	TR	CA	ORG	CL	REMARKS
130A	13	S	Y	CB	H	L	LAKE
(130	08	16	L	KA	A	H	SLASH
129A	22	L	RR	H	L		SUSAN P.
128A	20	L	BR	H	L		
(127A	20	S	Y	BR	H	L	
126A	26	S	Y	BR	H	L	✓
125A	22	S	Y	BR	H	L	SLASH
(124B	10	L	YD	L	L	L	CAT + NO. 2
123B	10	L	OR	L	L	L	CAT KILL
122B	12	L	OR	L	L	L	
121A	20	L	SK	L	L	L	
120A	22	S	Y	DR	H	L	MOSS
119AB	20	S	Y	GR	M	H	
118B	12	L	OR	L	L	L	
117B	14	L	OG	H	L	L	
(116B	12	L	OR	L	L	L	
115B	10	L	OR	M	L	L	SLASH
114B	10	L	OR	L	L	L	ROAD
(113B	14	E	OR	L	L	L	SLASH
112B	12	E	OR	L	L	L	
111B	14	E	OR	L	L	L	
(110B	12	E	OR	L	L	L	
109B	10	E	OR	L	L	L	
108B	12	E	OR	L	L	L	
(107B	12	S	OR	L	L	L	

MUTUAL

L139E

July 31/86

STN	Hor	DEP	TOP	COL	ORG	CLY	REMARKS
106N	A	18	N	BK	H	L	Logs
105N							RAN INTO
104							STN. 99
103							
102							
101							
100							NO STN.
99	A	20	N	BK	H	M	105-100N
98	A	20	N	BK	H	L	
97	A	20	N	BK	H	L	
96	B	19	L	OR	L	H	
95	A	20	L	BK	H	L	
94	AB	12	L	BO	L	L	ROAD
93							NO SAMPLE ROAD

L139E

July 30

STN	Hor	DEP	TOP	COL	ORG	CLY	REMARKS
150N	AB	18	SY	GBK	H	M	Treeline
149	A	16	SY	GY	L	H	
148	A	22	SY	BK	H	L	CREEK
147	A	14	SY	BK	H	M	SWAMP AND
146	A	14	SY	BR	H	L	CLEARING
145	A	26	SY	BR	H	L	
144	AB	20	SY	GB	H	M	
143	AB	20	SY	GB	H	M	
142	AB	28	SY	BBK	H	L	
141	AB	18	SY	GB	H	L	
140	AB	22	SY	OB	H	L	
139	B	18	L	OR	L	L	
138	AB	16	L	OB	L	L	
137	B	8	L	OB	L	L	Side of ROAD
136	B	12	L	OR	M	L	
135	A	16	SY	BR	H	L	
134	A	16	SY	BR	H	L	
133							NO SAMPLE MOSS Edge of LAKE

L-147E

July 30, 1986

STN	HOR	DEP	TOP	COL	ORG	CLY	REMARKS
150	N B	14	T	OR	L	L	Tree line
149	N B	16	S	OR	L	L	
148	B	12	S	OR	L	L	
147	B	16	L	OR	M	L	
146	B	10	L	OR	M	L	
145	B	14	L	OB	M	L	Old Tag 144 so we went loop
144	A	22	SY	GB	H	L	
143	A	20	SY	BR	H	L	
142	AB	20	L	GB	H	M	
141	B	22	L	OR	M	M	
140	A	18	L	BR	H	L	
139	AB	20	SY	VG	H	H	
138	A	20	SY	GB	H	M	
137	A	20	SY	BR	H	L	
136	AB	10	SY	BR	H	L	
135	A	16	SY	BR	H	L	close to slash
134	NO	SAMPLE		ROAD		SLASH	
133	B	20	L	OR	M	L	SLASH
132	B	24	L	OR	M	L	SLASH
131	AB	20	L	GB	H	L	SLASH
130	AB	26	SY	GB	H	L	
129	LAKE						

L-147E

July 31, 1986

STN	HOR	DEP	TOP	COL	ORG	CLY	REMARKS
91	N A	18	L	BR	H	L	
92	A	9	L	GB	L	L	ROAD SIDE
93	B	8	L	OR	L	L	Ditch
94	A	18	SY	GY	H	H	
95	A	22	SY	GY	H	H	SLASH
96	A	24	L	GB	H	H	
97	BC	16	L	GY	L	H	
98	AB	20	L	OB	M	L	
99	AB	22	L	GB	M	M	
90	B	20	L	OR	H	L	
91	AB	12	L	OR	H	L	
92	A	14	L	BR	H	L	
93	B	16	L	OR	L	L	
94	A	12	L	OR	L	L	CAT TRAIL
95	B	8	L	OR	L	L	
96	A	20	SY	BR	H	L	
97	B	10	S	OR	L	L	CAT TRAIL
98	B	9	W	OR	L	L	
99	B	8	W	OG	M	L	TREE LINE
100	AB	12	W	OR	L	L	
101	B	12	W	OR	L	L	ROAD IMPROV
101	A	26	W	BR	H	L	
102	NO SAMPLE						LAKE
103							

L155E July 27/86

STN	HOR	DEP	TOP	COL	ORG	CLY	REMARKS
90	N A	18	54	BK	H	L	Grassline Puddled
91	B	16	L	Gy	M	H	SLASH
92	B	8	S	OR	L	M	
93	B	10	S	OR	M	L	
94	B	10	L	OR	L	L	
95	B	10	L	OB	L	L	
96	B	14	L	OR	L	L	
97	B	10	L	OB	M	L	
98	B	16	T	OB	M	L	
99	A	18	N	OB	M	L	
100	A	10	N	OB	L	L	
101	B	10	N	OR	M	L	
102	A	26	54	BK	H	L	
103	A	30	54	BK	H	L	
104	A	20	54	BK	H	L	
105	A	18	54	BK	L	H	
106	A	18	54	OB	M	M	
107	A	18	S	BE	H	L	
108	B	12	L	OY	L	L	
109	B	6	V	OR	L	L	SLASH
110	B	10	L	OR	L	L	
111	B	10	L	OR	M	L	
112	A	10	L	G	H	C	
113	N						SAMPLE ROAD

L155E July 27/86

STN	HOR	DEP	TOP	COL	ORG	CLY	RE
114	B	12	L	OR	M	L	SLASH
115	B	10	L	OB	M	L	
116	B	10	L	OR	M	L	
117	B	10	L	OR	M	L	
118	B	10	L	OR	H	L	
119	B	8	V	OR	L	L	
120	B	10	L	OR	M	L	
121	B	8	L	OR	L	L	CAT TRAIL
122	B	8	L	OR	M	L	
123	B	12	L	ROB	L	L	Tree line
124	B	10	L	OR	H	L	
125	B	10	L	OR	M	L	
126	A	16	N	BK	H	L	
127	A	18	54	BK	L	H	
128	A	20	54	Gy	M	H	
129	A	18	54	BK	H	L	
130	A	20	54	BK	H	L	

STATISTICAL SUMMARY

NAME	NO. OF VALUES	ARITHMETIC		LOGARITHMIC	
		MEAN	STD. DEV.	MEAN	STD. DEV.
CU	173	37.162	17.875	1.519	0.222
MO	155	5.245	1.905	0.675	0.225
PB	77	3.039	1.342	0.456	0.142
ZN	173	35.642	30.874	1.470	0.254
AG	26	0.281	0.113	-0.578	0.146
MN	173	314.202	464.755	2.288	0.410
AS	39	4.949	3.659	0.594	0.284

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NE 6/20/04

NORTHEAST SOIL GEOCHEM SURVEY STATISTICS

VARIABLE NAME IS: CU
 CALCULATED PARAMETERS: MEAN = 37.1618 NUMBER OF VALUES IS 173
 STD. DEV. = 17.8751 VARIANCE = 319.5205

PERCENTAGE HISTOGRAM OF ARITHMETIC VALUES

CELL	LOWER LIMIT	NO	PCT	LOG LIMIT
1	-16.4638	0	0.0	
2	-11.9950	0	0.0	
3	-7.5262	0	0.0	
4	-3.0574	0	0.0	
5	1.4114	0	0.0	0.1496
6	5.8802	5	2.9	0.7694
7	10.3489	10	5.8	1.0149
8	14.8177	10	5.8	1.1708
9	19.2865	13	7.5	1.2853
10	23.7553	19	11.0	1.3758
11	28.2241	13	7.5	1.4506
12	32.6929	18	10.4	1.5165
13	37.1617	20	11.6	1.5701
14	41.6305	19	11.0	1.6194
15	46.0993	17	9.8	1.6637
16	50.5681	14	8.1	1.7039
17	55.0369	7	4.0	1.7407
18	59.5057	0	0.0	1.7746
19	63.9745	3	1.7	1.8060
20	68.4433	0	0.0	1.8353
21	72.9121	0	0.0	1.8628
22	77.3809	0	0.0	1.8886
23	81.8497	2	1.2	1.9130
24	86.3185	2	1.2	1.9361

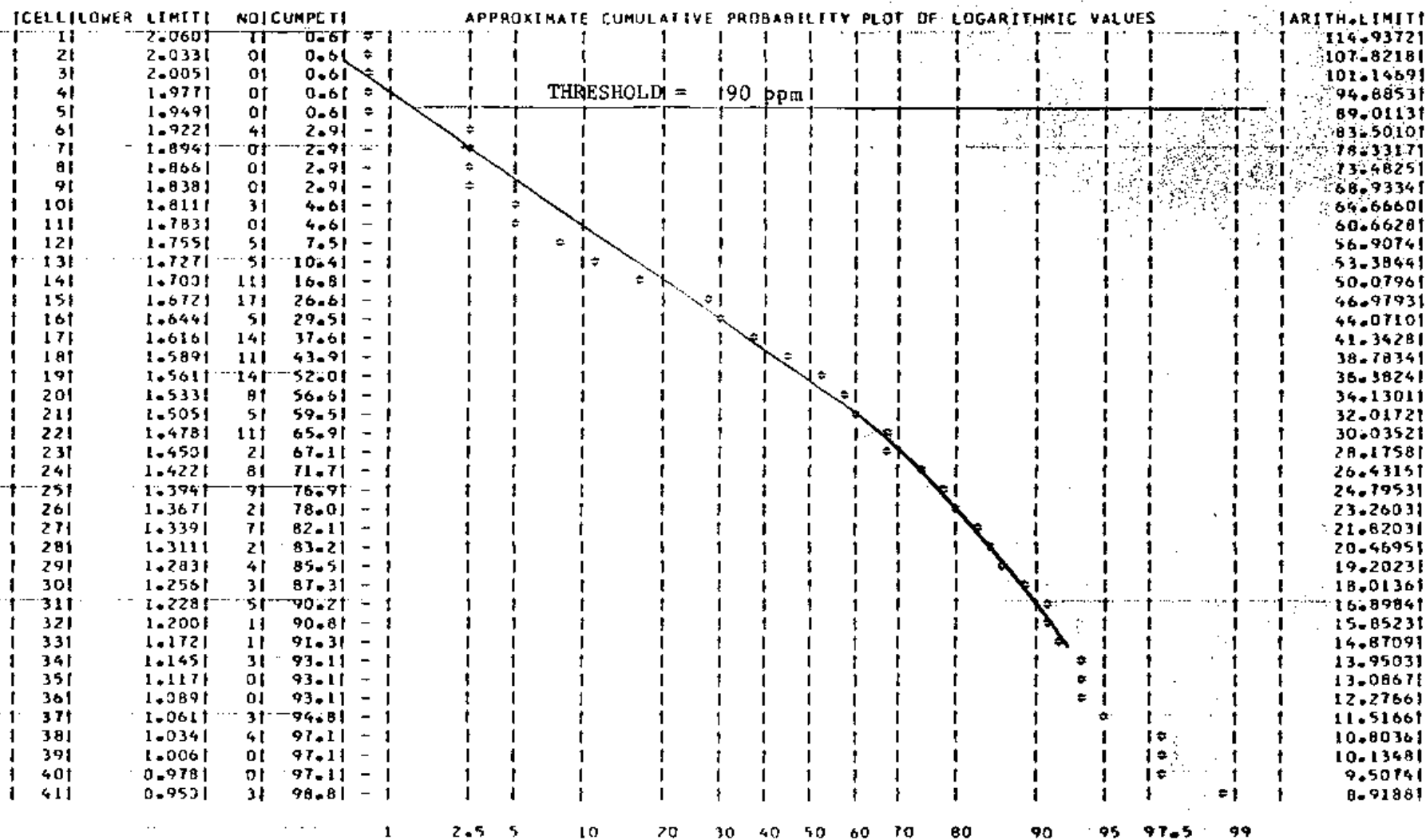
LOG VALUES.....: MEAN = 1.5193 STD. DEV. = 0.2220 VARIANCE = 0.0493

PERCENTAGE HISTOGRAM OF LOGARITHMIC VALUES

CELL	LOWER LIMIT	NO	PCT	ARITH. LIMIT
1	0.8532	0	0.0	7.1313
2	0.9087	3	1.7	8.1036
3	0.9642	0	0.0	9.2084
4	1.0197	4	2.3	10.4638
5	1.0752	3	1.7	11.8905
6	1.1307	4	2.3	13.5116
7	1.1862	3	1.7	15.3537
8	1.2417	6	3.5	17.4470
9	1.2972	9	5.2	19.8257
10	1.3527	7	4.0	22.5287
11	1.4082	17	9.8	25.6003
12	1.4638	15	8.7	29.0906
13	1.5193	15	8.7	33.0567
14	1.5748	21	12.1	37.5636
15	1.6303	27	15.6	42.6850
16	1.6858	22	12.7	48.5046
17	1.7413	7	4.0	55.1176
18	1.7968	3	1.7	62.6323
19	1.8523	0	0.0	71.1715
20	1.9078	4	2.3	80.8748
21	1.9633	0	0.0	91.9012
22	2.0188	0	0.0	104.4309
23	2.0743	0	0.0	118.6687
24	2.1298	1	0.6	134.9479

NORTHEAST SOIL GEOCHEM SURVEY STATISTICS

VARIABLE NAME IS: CU



NORTHEAST SOIL GEOCHEM SURVEY STATISTICS

VARIABLE NAME IS: MO
 CALCULATED PARAMETERS: MEAN = 5.2452 NUMBER OF VALUES IS 155
 STD. DEV. = 1.9047 VARIANCE = 3.6278

PERCENTAGE HISTOGRAM OF ARITHMETIC VALUES

ICELL	LOWER LIMIT	NOI	PCT	LOG LIMIT
1	-0.4689	0	0.0	0.0000
2	0.0073	0	0.0	-2.1389
3	0.4834	0	0.0	-0.3157
4	0.9596	9	5.8	-0.0179
5	1.4358	0	0.0	0.1571
6	1.9120	9	5.8	0.2815
7	2.3881	0	0.0	0.3781
8	2.8643	10	6.5	0.4570
9	3.3405	0	0.0	0.5238
10	3.8166	19	12.3	0.5817
11	4.2928	0	0.0	0.6327
12	4.7690	19	12.3	0.6784
13	5.2452	0	0.0	0.7198
14	5.7213	52	33.5	0.7575
15	6.1975	0	0.0	0.7922
16	6.6737	28	18.1	0.8244
17	7.1498	0	0.0	0.8543
18	7.6260	6	3.9	0.8823
19	8.1022	0	0.0	0.9086
20	8.5784	1	0.6	0.9334
21	9.0545	0	0.0	0.9569
22	9.5307	2	1.3	0.9791
23	10.0069	0	0.0	1.0003
24	10.4831	0	0.0	1.0205

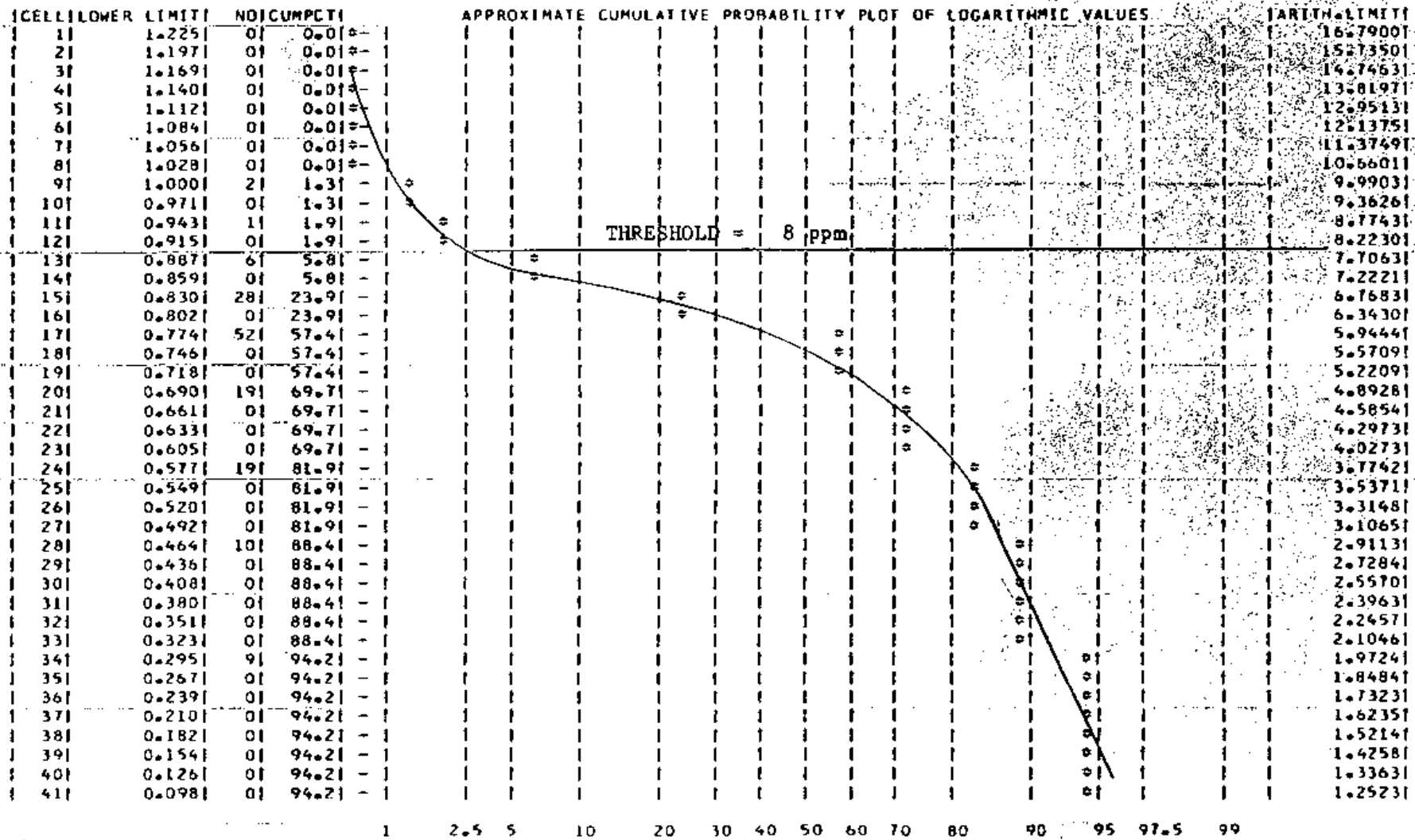
LOG VALUES.....: MEAN = 0.6755 STD. DEV. = 0.2255 VARIANCE = 0.0508

PERCENTAGE HISTOGRAM OF LOGARITHMIC VALUES

ICELL	LOWER LIMIT	NOI	PCT	ARITH. LIMIT
1	-0.0009	9	5.8	0.9978
2	0.0554	0	0.0	1.1361
3	0.1118	0	0.0	1.2936
4	0.1682	0	0.0	1.4729
5	0.2245	0	0.0	1.6770
6	0.2809	9	5.8	1.9094
7	0.3373	0	0.0	2.1740
8	0.3936	0	0.0	2.4753
9	0.4500	10	6.5	2.8184
10	0.5064	0	0.0	3.2090
11	0.5627	19	12.3	3.6537
12	0.6191	0	0.0	4.1601
13	0.6755	19	12.3	4.7366
14	0.7318	52	33.5	5.3930
15	0.7882	0	0.0	6.1405
16	0.8446	28	18.1	6.9915
17	0.9009	7	4.5	7.9809
18	0.9573	2	1.3	9.0636
19	1.0137	0	0.0	10.3198
20	1.0700	0	0.0	11.7500
21	1.1264	0	0.0	13.3784
22	1.1828	0	0.0	15.2326
23	1.2391	0	0.0	17.3437
24	1.2955	0	0.0	19.7474

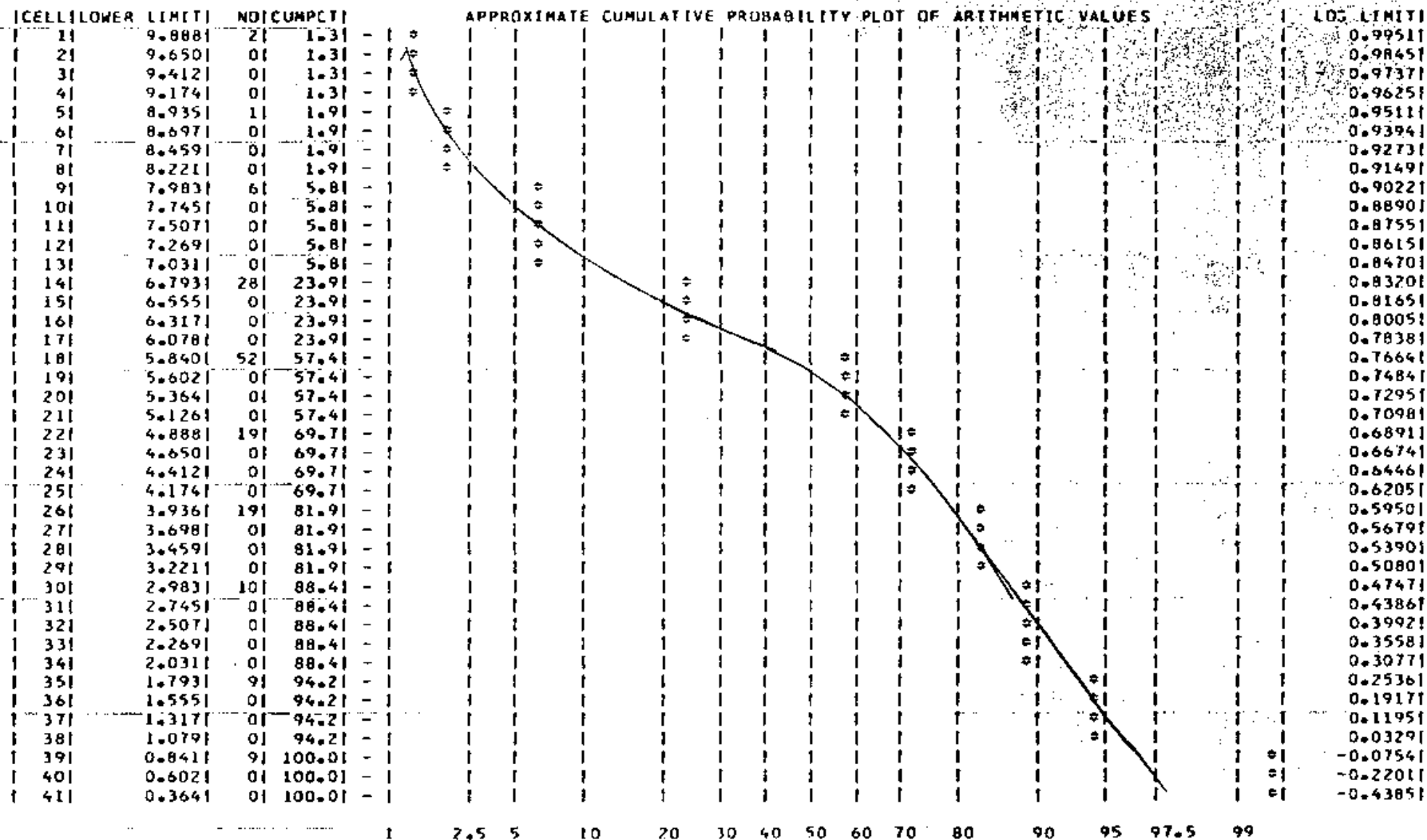
NORTHEAST SOIL GEOCHEM SURVEY STATISTICS

VARIABLE NAME IS: MO



NORTHEAST SOIL GEOCHEM SURVEY STATISTICS

VARIABLE NAME IS: MO



NORTHEAST SOIL GEOCHEM SURVEY STATISTICS

VARIABLE NAME IS: PB
 CALCULATED PARAMETERS: MEAN = 3.0390 NUMBER OF VALUES IS 77
 STD. DEV. = 1.3420 VARIANCE = 1.8011

PERCENTAGE HISTOGRAM OF ARITHMETIC VALUES

CELL	LOWER LIMIT	NO	PCT	LOG LIMIT
1	-0.9872	0	0.0	0.0000
2	-0.6517	0	0.0	0.0000
3	-0.3162	0	0.0	0.0000
4	0.0193	0	0.0	-1.7136
5	0.3548	0	0.0	-0.4500
6	0.6904	0	0.0	-0.1609
7	1.0259	0	0.0	0.0111
8	1.3614	0	0.0	0.1340
9	1.6969	26	33.8	0.2297
10	2.0324	0	0.0	0.3080
11	2.3679	0	0.0	0.3744
12	2.7034	35	45.5	0.4319
13	3.0390	0	0.0	0.4827
14	3.3745	0	0.0	0.5282
15	3.7100	10	13.0	0.5694
16	4.0455	0	0.0	0.6070
17	4.3810	0	0.0	0.6416
18	4.7165	5	6.5	0.6736
19	5.0520	0	0.0	0.7035
20	5.3875	0	0.0	0.7314
21	5.7231	0	0.0	0.7576
22	6.0586	0	0.0	0.7824
23	6.3941	0	0.0	0.8058
24	6.7296	0	0.0	0.8280

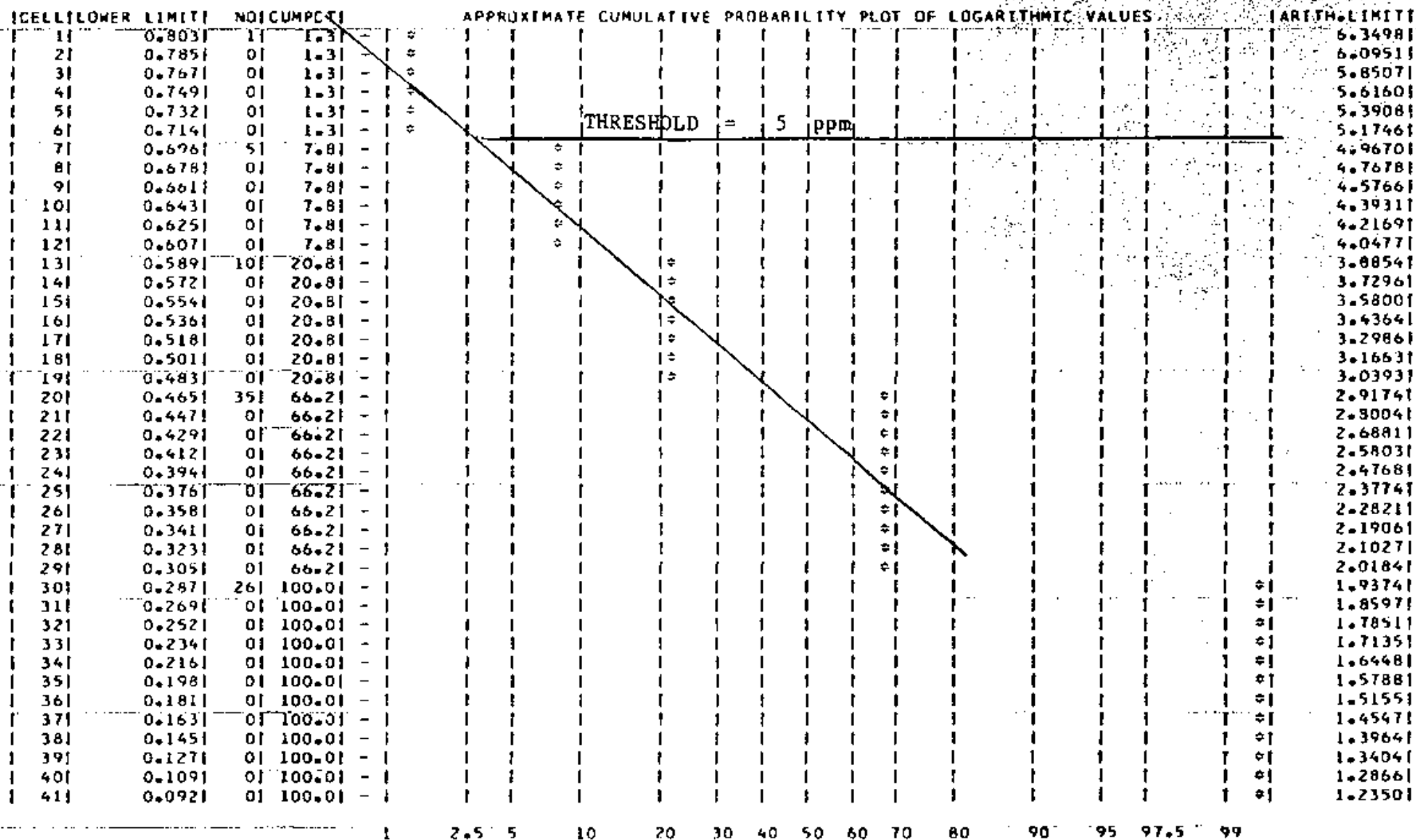
LOG VALUES.....: MEAN = 0.4561 STD. DEV. = 0.1422 VARIANCE = 0.0202

PERCENTAGE HISTOGRAM OF LOGARITHMIC VALUES

CELL	LOWER LIMIT	NO	PCT	ARITH. LIMIT
1	0.0295	0	0.0	1.0702
2	0.0650	0	0.0	1.1615
3	0.1006	0	0.0	1.2606
4	0.1361	0	0.0	1.3681
5	0.1717	0	0.0	1.4848
6	0.2072	0	0.0	1.6115
7	0.2428	0	0.0	1.7490
8	0.2783	26	33.8	1.8982
9	0.3139	0	0.0	2.0601
10	0.3494	0	0.0	2.2359
11	0.3850	0	0.0	2.4266
12	0.4206	0	0.0	2.6336
13	0.4561	35	45.5	2.8583
14	0.4917	0	0.0	3.1021
15	0.5272	0	0.0	3.3668
16	0.5628	0	0.0	3.6540
17	0.5983	10	13.0	3.9657
18	0.6339	0	0.0	4.3041
19	0.6694	5	6.5	4.6712
20	0.7050	0	0.0	5.0697
21	0.7405	0	0.0	5.5023
22	0.7761	0	0.0	5.9717
23	0.8116	0	0.0	6.4811
24	0.8472	0	0.0	7.0340

NORTHEAST SOIL GEOCHEM SURVEY STATISTICS

VARIABLE NAME IS: PB



NORTHEAST SOIL GEOCHEM SURVEY STATISTICS

VARIABLE NAME IS: ZN
 CALCULATED PARAMETERS: MEAN = 35.6416 NUMBER OF VALUES IS 173
 STD.DEV. = 30.8745 VARIANCE = 953.2314

PERCENTAGE HISTOGRAM OF ARITHMETIC VALUES

ICELL	LOWER LIMIT	NO	PCT	LOG LIMIT
1	-56.9817	0	0.0	0.0000
2	-49.2631	0	0.0	0.0000
3	-41.5445	0	0.0	0.0000
4	-33.8259	0	0.0	0.0000
5	-26.1073	0	0.0	0.0000
6	-18.3887	0	0.0	0.0000
7	-10.6701	0	0.0	0.0000
8	-2.9514	0	0.0	0.0000
9	4.7672	16	9.2	0.6783
10	12.4858	26	15.0	1.0964
11	20.2044	18	10.4	1.3054
12	27.9230	51	29.5	1.4460
13	35.6416	28	16.2	1.5520
14	43.3602	19	11.0	1.6371
15	51.0788	7	4.0	1.7082
16	58.7975	3	1.7	1.7694
17	66.5161	1	0.6	1.8229
18	74.2347	0	0.0	1.8706
19	81.9533	0	0.0	1.9136
20	89.6719	0	0.0	1.9527
21	97.3905	0	0.0	1.9885
22	105.1091	0	0.0	2.0216
23	112.8277	0	0.0	2.0524
24	120.5464	0	0.0	2.0812

LOG VALUES.....: MEAN = 1.4700 STD.DEV. = 0.2545 VARIANCE = 0.0648

PERCENTAGE HISTOGRAM OF LOGARITHMIC VALUES

ICELL	LOWER LIMIT	NO	PCT	ARITH. LIMIT
1	0.7066	0	0.0	5.0887
2	0.7702	1	0.6	5.8915
3	0.8338	2	1.2	6.8210
4	0.8975	5	2.9	7.8970
5	0.9611	5	2.9	9.1429
6	1.0247	3	1.7	10.5853
7	1.0883	3	1.7	12.2552
8	1.1519	7	4.0	14.1886
9	1.2156	10	5.8	16.4270
10	1.2792	10	5.8	19.0185
11	1.3428	9	5.2	22.0189
12	1.4064	9	5.2	25.4926
13	1.4700	40	23.1	29.5143
14	1.5337	22	12.7	34.1705
15	1.5973	22	12.7	39.5612
16	1.6609	13	7.5	45.8024
17	1.7245	5	2.9	53.0282
18	1.7881	2	1.2	61.3939
19	1.8517	1	0.6	71.0795
20	1.9154	0	0.0	82.2930
21	1.9790	0	0.0	95.2755
22	2.0426	0	0.0	110.3062
23	2.1062	0	0.0	127.7082
24	2.1698	0	0.0	147.8554

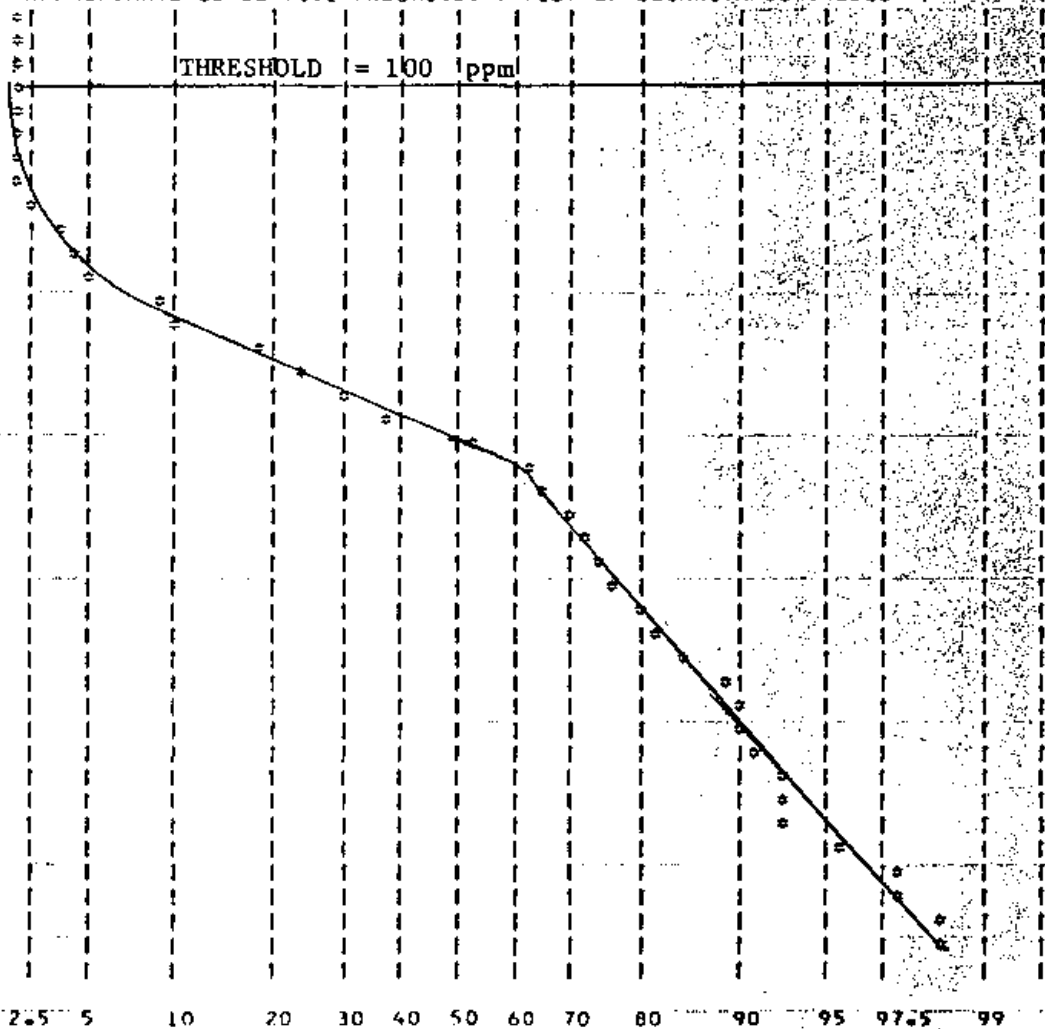
100

NORTHEAST SOIL GEOCHEM SURVEY STATISTICS

VARIABLE NAME IS: ZN

CELL	LOWER LIMIT	NO	CUMPT	
1	2.090	4	2.3	-
2	2.059	0	2.3	-
3	2.027	0	2.3	-
4	1.995	0	2.3	-
5	1.963	0	2.3	-
6	1.931	0	2.3	-
7	1.899	0	2.3	-
8	1.868	0	2.3	-
9	1.836	1	2.9	-
10	1.804	1	3.5	-
11	1.772	1	4.0	-
12	1.740	1	4.6	-
13	1.709	7	8.7	-
14	1.677	2	9.8	-
15	1.645	14	17.9	-
16	1.613	9	23.1	-
17	1.581	12	30.1	-
18	1.550	10	35.8	-
19	1.518	27	51.4	-
20	1.486	15	60.1	-
21	1.454	7	64.2	-
22	1.422	7	68.2	-
23	1.390	3	69.9	-
24	1.359	6	73.4	-
25	1.327	1	74.0	-
26	1.295	9	79.2	-
27	1.263	2	80.3	-
28	1.231	5	83.2	-
29	1.200	9	88.4	-
30	1.168	1	89.0	-
31	1.136	1	89.6	-
32	1.104	2	90.8	-
33	1.072	3	92.5	-
34	1.041	0	92.5	-
35	1.009	0	92.5	-
36	0.977	5	95.4	-
37	0.945	3	97.1	-
38	0.913	0	97.1	-
39	0.882	2	98.3	-
40	0.850	0	98.3	-
41	0.818	2	99.4	-

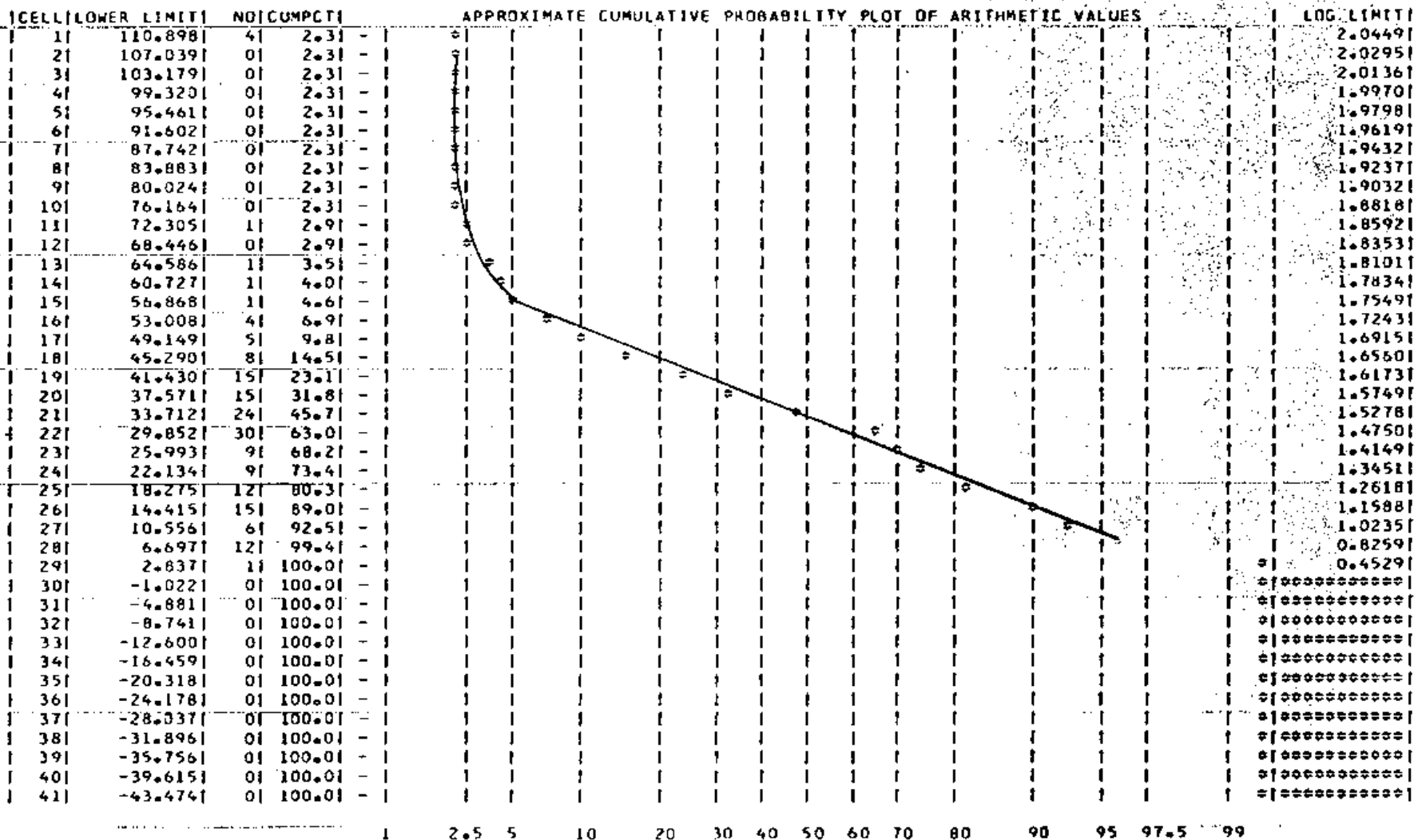
APPROXIMATE CUMULATIVE PROBABILITY PLOT OF LOGARITHMIC VALUES



ARITH. LIMIT
123.1160
114.4206
106.3395
98.8291
91.8491
85.3621
79.3333
73.7303
68.5229
63.6833
59.1856
55.0055
51.1207
47.5102
44.1547
41.0362
38.1379
35.4444
32.9411
30.6145
28.4524
26.4429
24.5753
22.8396
21.2265
19.7274
18.3341
17.0392
15.8358
14.7174
13.6779
12.7119
11.8141
10.9797
10.2043
9.4836
8.8138
8.1913
7.6128
7.0751
6.5755

NORTHEAST SOIL GEOCHEM SURVEY STATISTICS

VARIABLE NAME IS: ZN



NORTHEAST SOIL GEOCHEM SURVEY STATISTICS

VARIABLE NAME IS: AG
 CALCULATED PARAMETERS: MEAN = 0.2808 NUMBER OF VALUES IS 26
 STD. DEV. = 0.1132 VARIANCE = 0.0128

PERCENTAGE HISTOGRAM OF ARITHMETIC VALUES

[CELL]	LOWER LIMIT	NOI	PCT	LOG LIMIT
1	-0.0588	0	0.0	-----
2	-0.0305	0	0.0	-----
3	-0.0022	0	0.0	-----
4	0.0261	0	0.0	-1.5841
5	0.0544	0	0.0	-1.2647
6	0.0827	0	0.0	-1.0827
7	0.1110	0	0.0	-0.9548
8	0.1393	0	0.0	-0.8562
9	0.1676	0	0.0	-0.7758
10	0.1959	13	50.0	-----
11	0.2242	0	0.0	-0.6494
12	0.2525	0	0.0	-0.5978
13	0.2808	9	34.6	-----
14	0.3091	0	0.0	-0.5517
15	0.3374	0	0.0	-0.5099
16	0.3657	0	0.0	-0.4719
17	0.3940	2	7.7	-----
18	0.4223	0	0.0	-0.4369
19	0.4506	0	0.0	-0.4045
20	0.4789	0	0.0	-0.3744
21	0.5072	0	0.0	-0.3462
22	0.5355	0	0.0	-0.3198
23	0.5638	0	0.0	-0.2948
24	0.5921	2	7.7	-----
				-0.2713
				-0.2489
				-0.2276

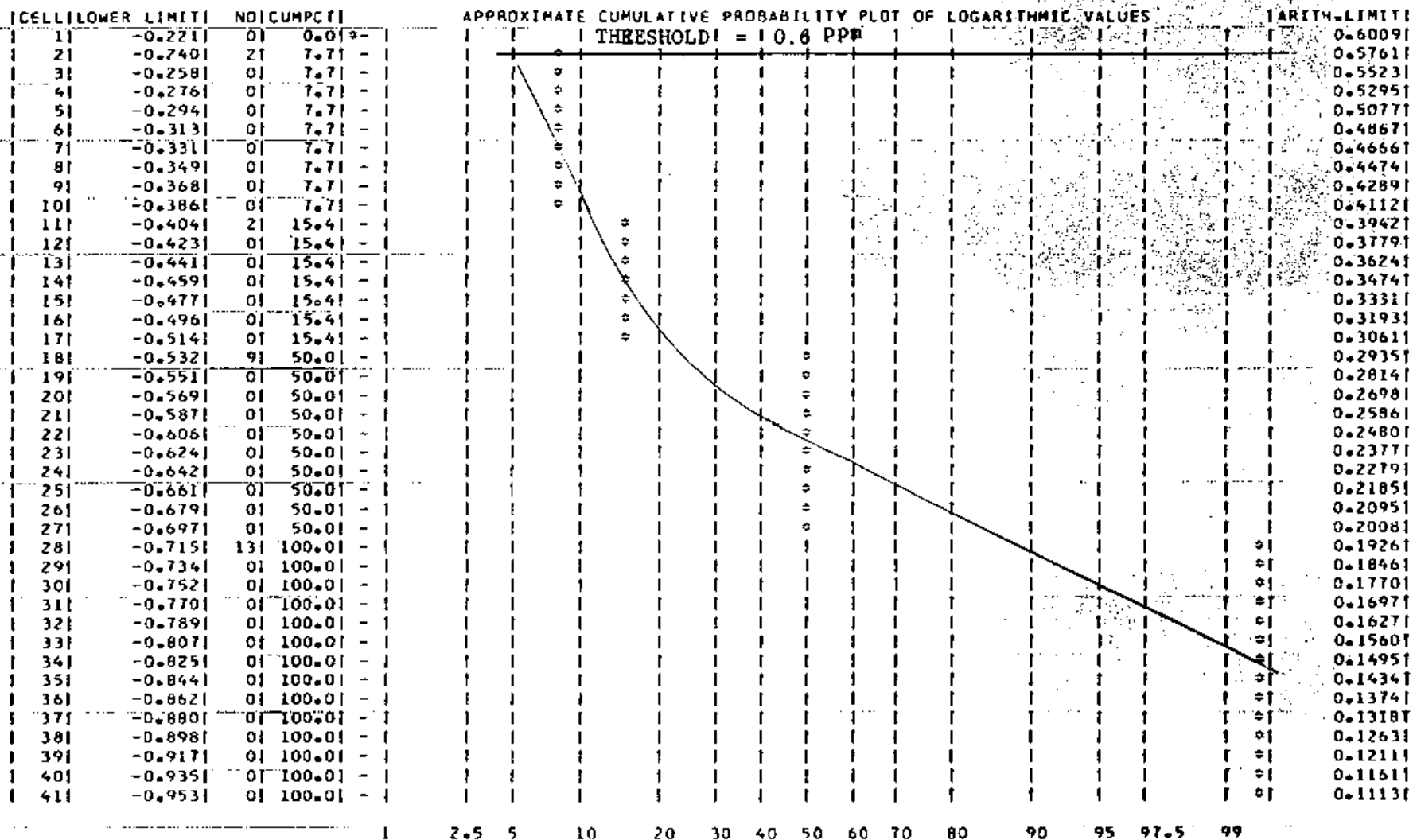
LOG VALUES.....: MEAN = -0.5782 STD. DEV. = 0.1464 VARIANCE = 0.0214

PERCENTAGE HISTOGRAM OF LOGARITHMIC VALUES

[CELL]	LOWER LIMIT	NOI	PCT	ARTH. LIMIT
1	-1.0175	0	0.0	0.0961
2	-0.9809	0	0.0	0.1045
3	-0.9443	0	0.0	0.1137
4	-0.9076	0	0.0	0.1237
5	-0.8710	0	0.0	0.1346
6	-0.8344	0	0.0	0.1464
7	-0.7978	0	0.0	0.1593
8	-0.7612	0	0.0	0.1733
9	-0.7246	13	50.0	-----
10	-0.6880	0	0.0	0.1885
11	-0.6514	0	0.0	0.2051
12	-0.6148	0	0.0	0.2232
13	-0.5782	0	0.0	0.2428
14	-0.5415	9	34.6	-----
15	-0.5049	0	0.0	0.2641
16	-0.4683	0	0.0	0.2874
17	-0.4317	2	7.7	-----
18	-0.3951	0	0.0	0.3127
19	-0.3585	0	0.0	0.3402
20	-0.3219	0	0.0	0.3701
21	-0.2853	0	0.0	0.4026
22	-0.2487	2	7.7	-----
23	-0.2121	0	0.0	0.4380
24	-0.1755	0	0.0	0.4766
				0.5185
				0.5641
				0.6137
				0.6676

NORTHEAST SOIL GEOCHEM SURVEY STATISTICS

VARIABLE NAME IS: AG



NORTHEAST SOIL GEOCHEM SURVEY STATISTICS

VARIABLE NAME IS: AS
 CALCULATED PARAMETERS: MEAN = 4.9487 NUMBER OF VALUES IS 39
 STD. DEV. = 3.8590 VARIANCE = 14.8920

PERCENTAGE HISTOGRAM OF ARITHMETIC VALUES

CELL	LOWER LIMIT	NO	PCT	LOG LIMIT
1	-6.6283	0	0.0	0.0000
2	-5.6636	0	0.0	0.0000
3	-4.6988	0	0.0	0.0000
4	-3.7341	0	0.0	0.0000
5	-2.7693	0	0.0	0.0000
6	-1.8046	0	0.0	0.0000
7	-0.8398	0	0.0	0.0000
8	0.1249	0	0.0	-0.9033
9	1.0897	13	33.3	0.0373
10	2.0544	6	15.4	0.3127
11	3.0192	0	0.0	0.4799
12	3.9840	5	12.8	0.6003
13	4.9487	5	12.8	0.6945
14	5.9135	3	7.7	0.7718
15	6.8782	0	0.0	0.8375
16	7.8430	1	2.6	0.8945
17	8.8077	0	0.0	0.9449
18	9.7725	0	0.0	0.9900
19	10.7372	2	5.1	1.0309
20	11.7020	0	0.0	1.0683
21	12.6668	3	7.7	1.1027
22	13.6315	0	0.0	1.1345
23	14.5963	0	0.0	1.1642
24	15.5610	0	0.0	1.1920

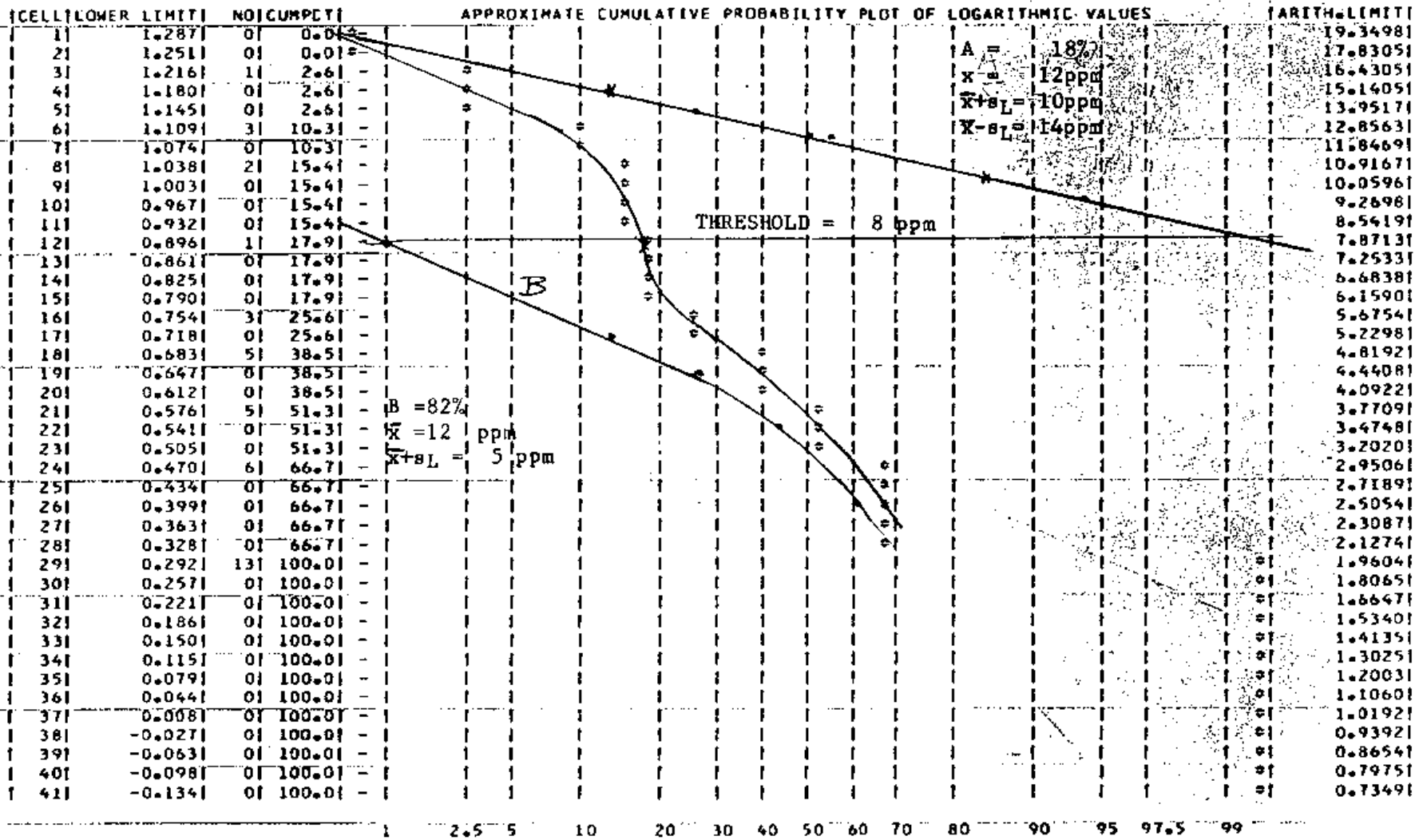
LOG VALUES..... MEAN = 0.5942 STD. DEV. = 0.2841 VARIANCE = 0.0807

PERCENTAGE HISTOGRAM OF LOGARITHMIC VALUES

CELL	LOWER LIMIT	NO	PCT	ARITH. LIMIT
1	-0.2581	0	0.0	0.5520
2	-0.1871	0	0.0	0.6500
3	-0.1160	0	0.0	0.7655
4	-0.0450	0	0.0	0.9015
5	0.0260	0	0.0	1.0617
6	0.0970	0	0.0	1.2503
7	0.1681	0	0.0	1.4725
8	0.2391	13	33.3	1.7341
9	0.3101	0	0.0	2.0422
10	0.3811	0	0.0	2.4051
11	0.4521	6	15.4	2.8324
12	0.5232	0	0.0	3.3356
13	0.5942	5	12.8	3.9282
14	0.6652	5	12.8	4.6261
15	0.7362	3	7.7	5.4481
16	0.8073	0	0.0	6.4160
17	0.8783	1	2.6	7.5559
18	0.9493	0	0.0	8.8984
19	1.0203	2	5.1	10.4794
20	1.0914	3	7.7	12.3412
21	1.1624	1	2.6	14.5339
22	1.2334	0	0.0	17.1162
23	1.3044	0	0.0	20.1572
24	1.3755	0	0.0	23.7386

NORTHEAST SOIL GEOCHEM SURVEY STATISTICS

VARIABLE NAME IS: AS



NORTHEAST SOIL GEOCHEM SURVEY STATISTICS

VARIABLE NAME IS: AS

CELL	LOWER LIMIT	NO	CUMPT	APPROXIMATE CUMULATIVE PROBABILITY PLOT OF ARITHMETIC VALUES												LOG LIMIT		
1	14.355	1	2.6															1.1570
2	13.873	0	2.6															1.1422
3	13.390	0	2.6															1.1268
4	12.908	3	10.3															1.1109
5	12.426	0	10.3															1.0943
6	11.943	0	10.3															1.0771
7	11.461	0	10.3															1.0592
8	10.978	2	15.4															1.0405
9	10.496	0	15.4															1.0210
10	10.014	0	15.4															1.0006
11	9.531	0	15.4															0.9792
12	9.049	0	15.4															0.9566
13	8.567	0	15.4															0.9328
14	8.084	0	15.4															0.9076
15	7.602	1	17.9															0.8809
16	7.119	0	17.9															0.8524
17	6.637	0	17.9															0.8220
18	6.155	0	17.9															0.7892
19	5.672	3	25.6															0.7538
20	5.190	0	25.6															0.7152
21	4.708	5	38.5															0.6728
22	4.225	0	38.5															0.6258
23	3.743	5	51.3															0.5732
24	3.260	0	51.3															0.5133
25	2.778	6	66.7															0.4437
26	2.296	0	66.7															0.3609
27	1.813	13	100.0															0.2585
28	1.331	0	100.0															0.1241
29	0.848	0	100.0															-0.0714
30	0.366	0	100.0															-0.4364
31	-0.116	0	100.0															#####
32	-0.599	0	100.0															#####
33	-1.081	0	100.0															#####
34	-1.563	0	100.0															#####
35	-2.046	0	100.0															#####
36	-2.528	0	100.0															#####
37	-3.011	0	100.0															#####
38	-3.493	0	100.0															#####
39	-3.975	0	100.0															#####
40	-4.458	0	100.0															#####
41	-4.940	0	100.0															#####

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

NORTHEAST SOIL GEOCHEM SURVEY STATISTICS

VARIABLE NAME IS: MN
 CALCULATED PARAMETERS: MEAN = 314.2021 NUMBER OF VALUES IS 173
 STD.DEV. = 464.7549 VARIANCE = *****

PERCENTAGE HISTOGRAM OF ARITHMETIC VALUES

ICELL	LOWER LIMIT	NO	PCT	LOG LIMIT
1	-1080.0625	0	0.0	*****
2	-963.8738	0	0.0	*****
3	-847.6851	0	0.0	*****
4	-731.4963	0	0.0	*****
5	-615.3076	0	0.0	*****
6	-499.1189	0	0.0	*****
7	-382.9302	0	0.0	*****
8	-266.7415	0	0.0	*****
9	-150.5527	0	0.0	*****
10	-34.3640	27	15.6	*****
11	81.8247	60	34.7	1.9129
12	198.0134	39	22.5	2.2967
13	314.2021	22	12.7	2.4972
14	430.3909	5	2.9	2.6339
15	546.5796	7	4.0	2.7377
16	662.7683	4	2.3	2.8214
17	778.9570	3	1.7	2.8915
18	895.1458	0	0.0	2.9519
19	1011.3345	0	0.0	3.0049
20	1127.5232	0	0.0	3.0521
21	1243.7119	1	0.6	3.0947
22	1359.9006	0	0.0	3.1335
23	1476.0894	0	0.0	3.1691
24	1592.2781	0	0.0	3.2020

LOG VALUES.....: MEAN = 2.2883 STD.DEV. = 0.4099 VARIANCE = 0.1680

PERCENTAGE HISTOGRAM OF LOGARITHMIC VALUES

ICELL	LOWER LIMIT	NO	PCT	ARITH. LIMIT
1	1.0587	1	0.6	11.4480
2	1.1612	0	0.0	14.4943
3	1.2637	0	0.0	18.3512
4	1.3661	3	1.7	23.2347
5	1.4686	6	3.5	29.4169
6	1.5711	10	5.8	37.2446
7	1.6735	3	1.7	47.1552
8	1.7760	1	0.6	59.7030
9	1.8785	8	4.6	75.5898
10	1.9809	8	4.6	95.7039
11	2.0834	16	9.2	121.1703
12	2.1859	31	17.9	153.4133
13	2.2883	18	10.4	194.2359
14	2.3908	21	12.1	245.9213
15	2.4933	14	8.1	311.3599
16	2.5957	11	6.4	394.2112
17	2.6982	9	5.2	499.1091
18	2.8007	5	2.9	631.9202
19	2.9031	2	1.2	800.0713
20	3.0056	0	0.0	1012.9670
21	3.1081	1	0.6	1282.5134
22	3.2105	3	1.7	1623.7852
23	3.3130	0	0.0	2055.8677
24	3.4155	0	0.0	2602.9255

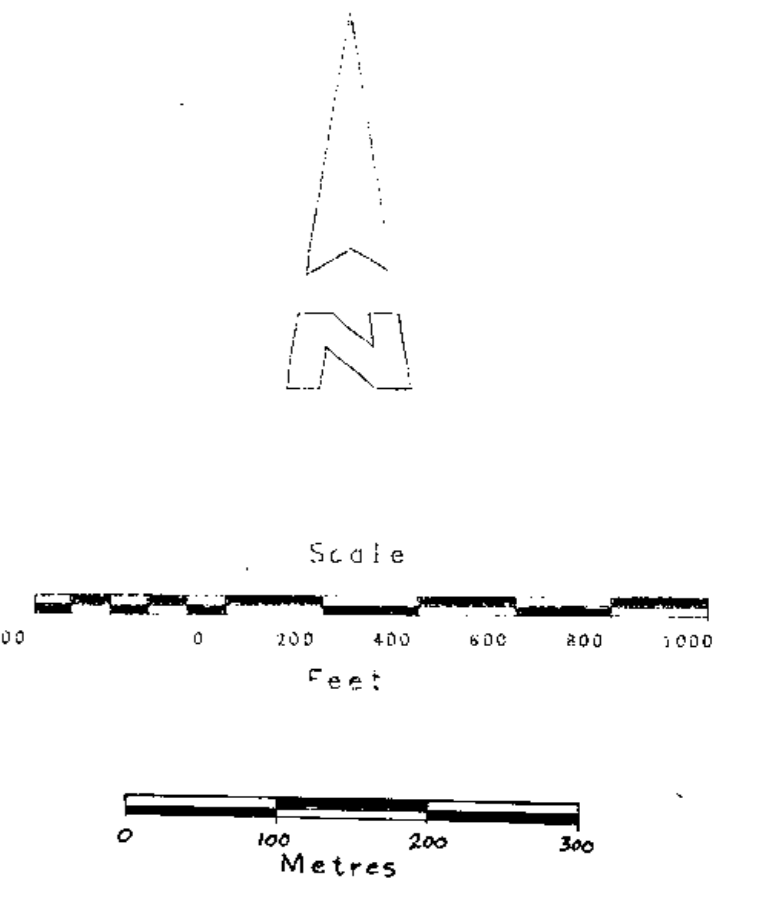
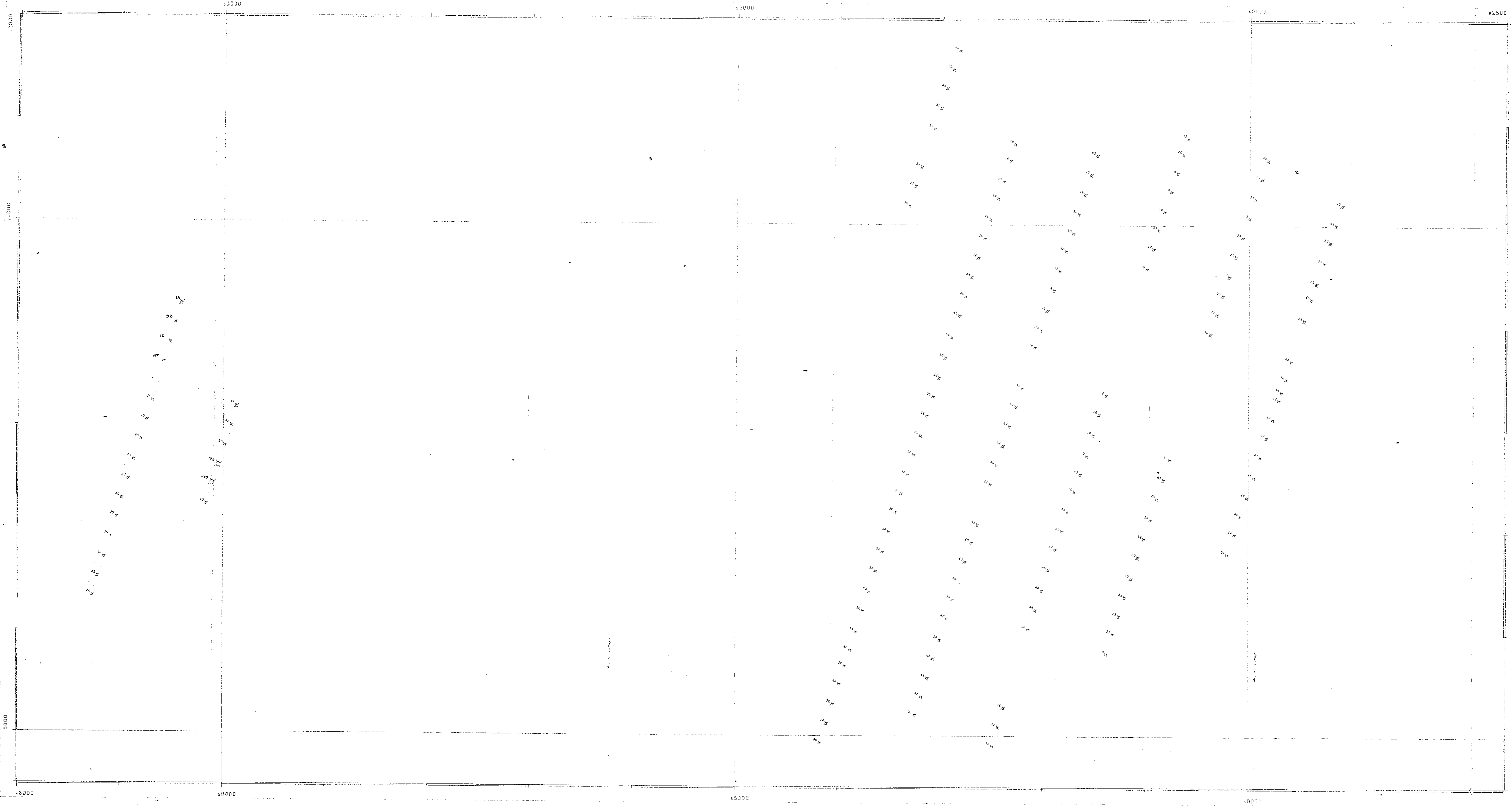
NORTHEAST SOTL GEOCHEM SURVEY STATISTICS

VARIABLE NAME IS: MN

CELL	LOWER LIMIT	NO	CUMPT	APPROXIMATE CUMULATIVE PROBABILITY PLOT OF LOGARITHMIC VALUES	ARITH. LIMIT
1	3.287	5	2.9		1938.1099
2	3.236	0	2.9		1722.4448
3	3.185	0	2.9		1530.7766
4	3.134	0	2.9		1360.4377
5	3.082	1	3.5		1209.0525
6	3.031	0	3.5		1074.5142
7	2.980	0	3.5		954.9456
8	2.929	1	4.0		848.6831
9	2.878	3	5.8		754.2441
10	2.826	3	7.5		670.3149
11	2.775	1	8.1		595.7249
12	2.724	7	12.1		529.4346
13	2.673	1	12.7		470.5212
14	2.621	5	15.6		418.1631
15	2.570	8	20.2		371.6316
16	2.519	10	26.0		330.2776
17	2.468	6	29.5		293.5256
18	2.416	12	36.4		260.8630
19	2.365	11	42.8		231.8352
20	2.314	8	47.4		206.0373
21	2.263	8	52.0		183.1103
22	2.211	15	60.7		162.7345
23	2.160	17	70.5		144.6259
24	2.109	8	75.1		128.5325
25	2.058	4	77.5		114.2298
26	2.007	4	79.8		101.5188
27	1.955	4	82.1		90.2221
28	1.904	4	84.4		80.1826
29	1.853	3	86.1		71.2601
30	1.802	0	86.1		63.3306
31	1.750	1	86.7		56.2833
32	1.699	3	88.4		50.0203
33	1.648	1	89.0		44.4543
34	1.597	8	93.6		39.5076
35	1.545	2	94.8		35.1113
36	1.494	3	96.5		31.2042
37	1.443	5	99.4		27.7319
38	1.392	0	99.4		24.6460
39	1.341	0	99.4		21.9035
40	1.289	0	99.4		19.4662
41	1.238	0	99.9		17.3000

THRESHOLD = 1500 ppm

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

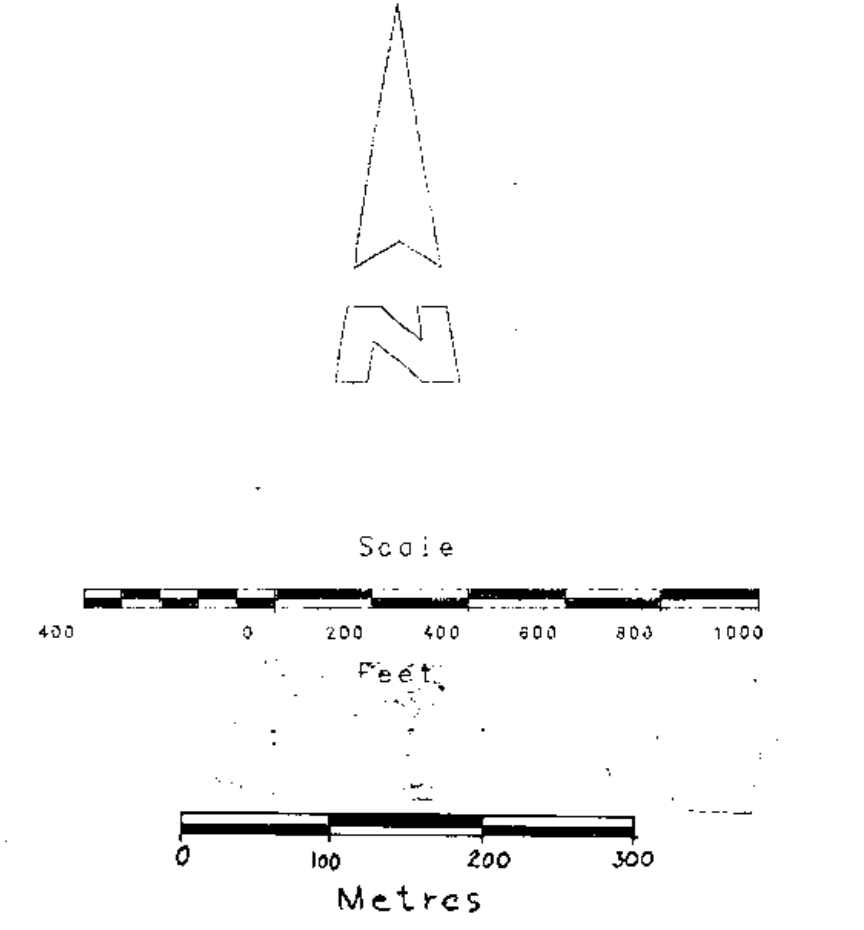
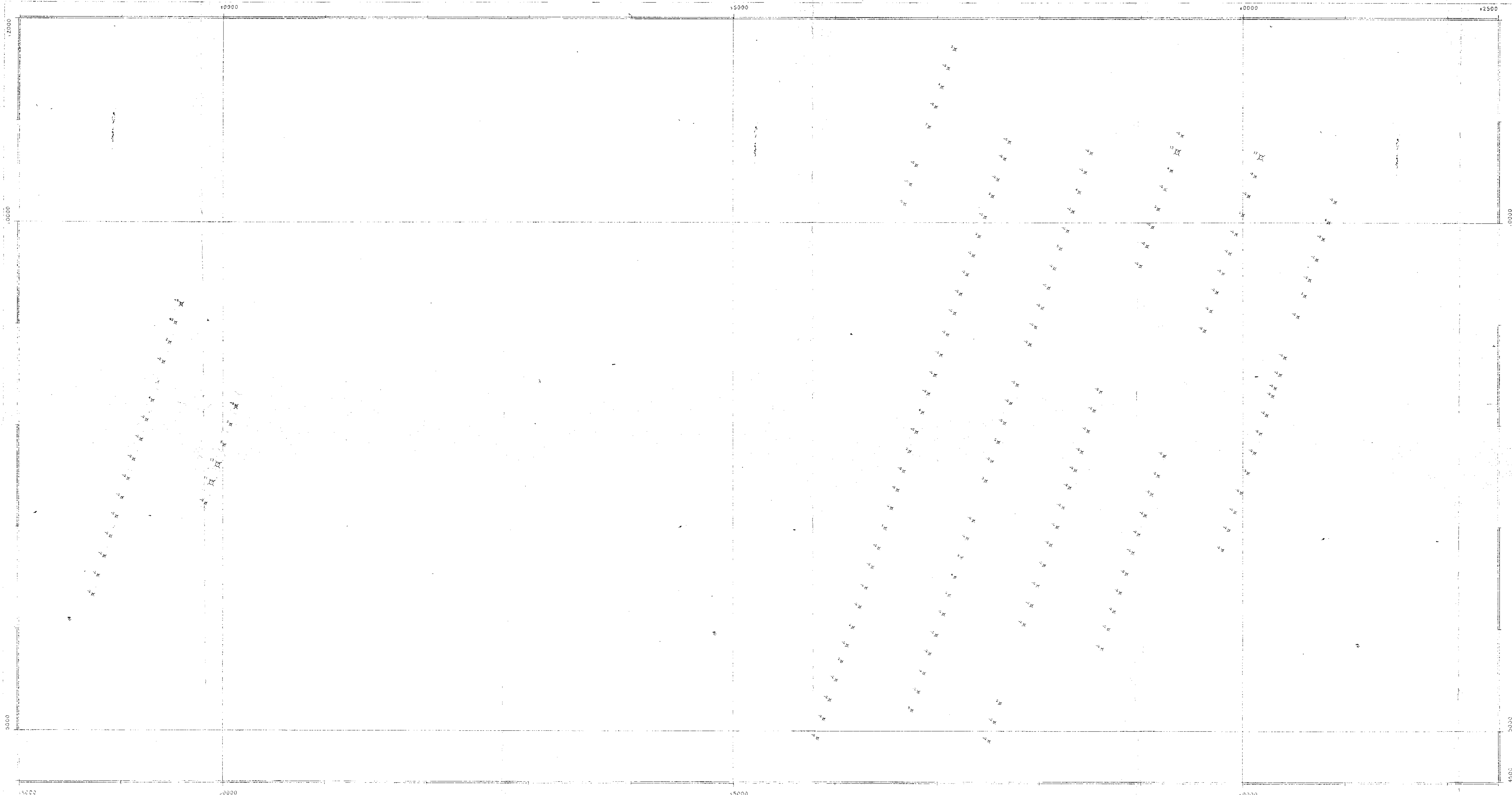


**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

15,707

PART 1 OF 6

UTAH MINES LIMITED	
ISLAND COPPER MINE	Scale: 400
1986 NORTHEAST SOILS	Date: 18-FEB-87
ZINC ANOMALY POSTER	Project:
	Drawn By: ATR
	Checked:
	Approved: JAF
	Drawing No:
	CC86_ZN

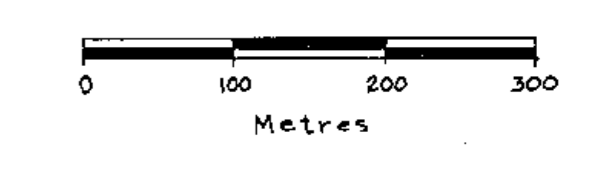
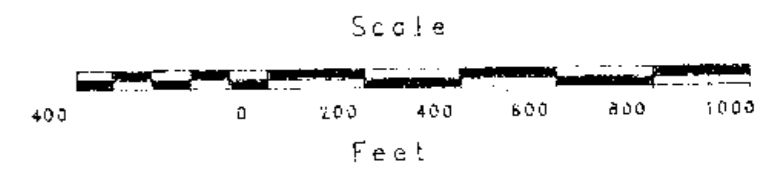
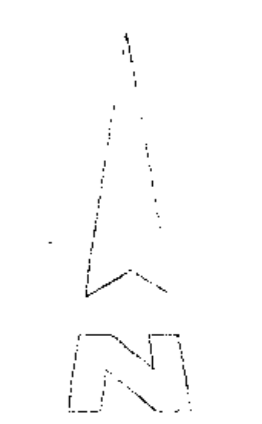
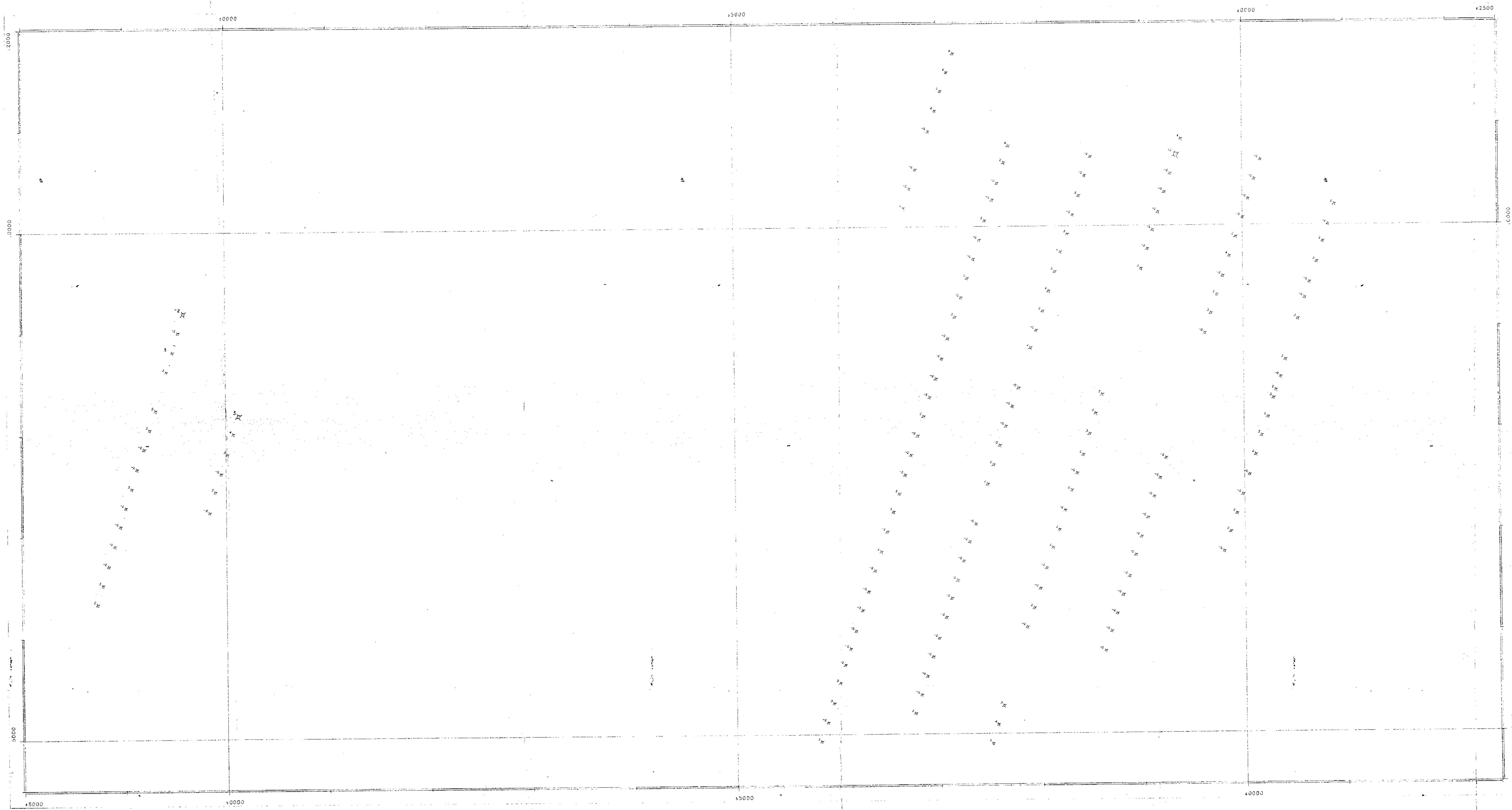


**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

15,707

PART 10F6

UTAH MINES LIMITED	
ISLAND COPPER MINE	Scale 400
1986 NORTHEAST SOILS	Date 18-FEB-87
ARSENIC ANOMALY POSTER	Project
	Drawn By ATR
	Checked
	Approved JAF
	Drawing No.
	GC86 AS



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

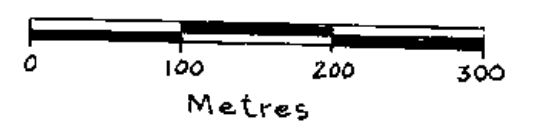
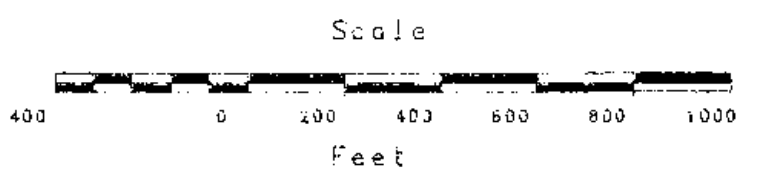
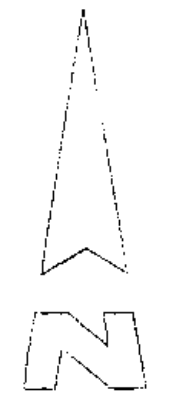
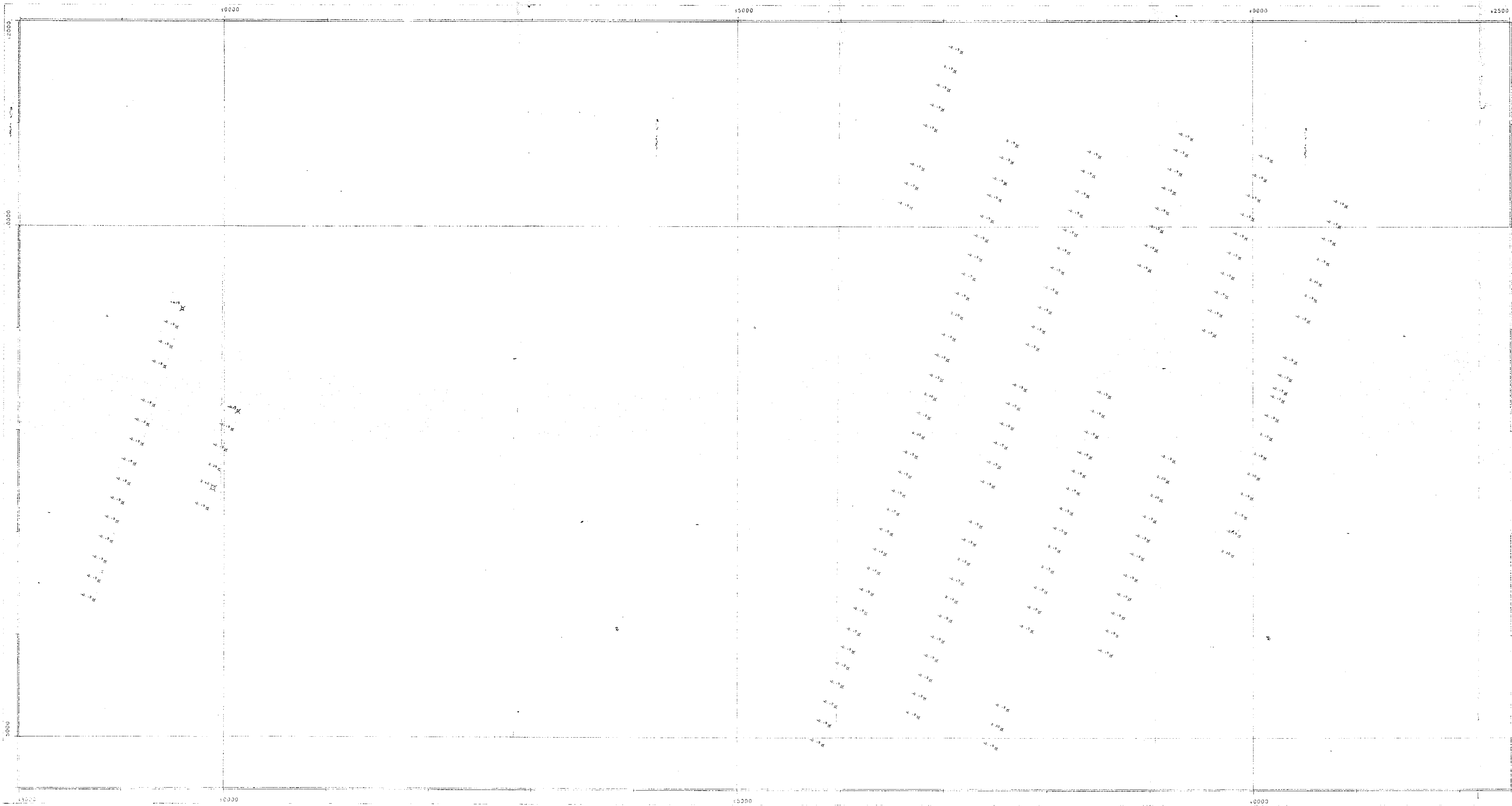
15,707

PART 10F6

UTAH MINES LIMITED

ISLAND COPPER MINE
1986 NORTHEAST SOILS
LEAD ANOMALY POSTER

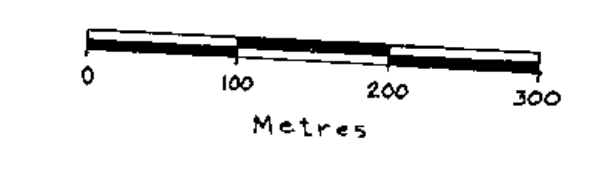
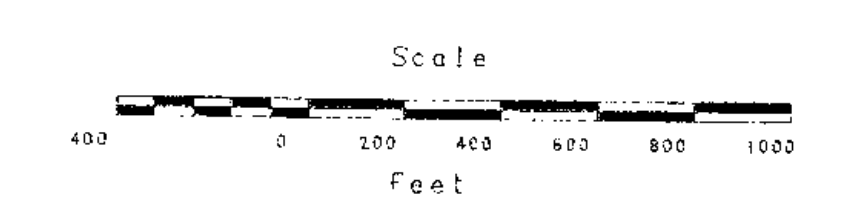
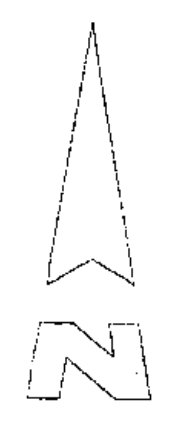
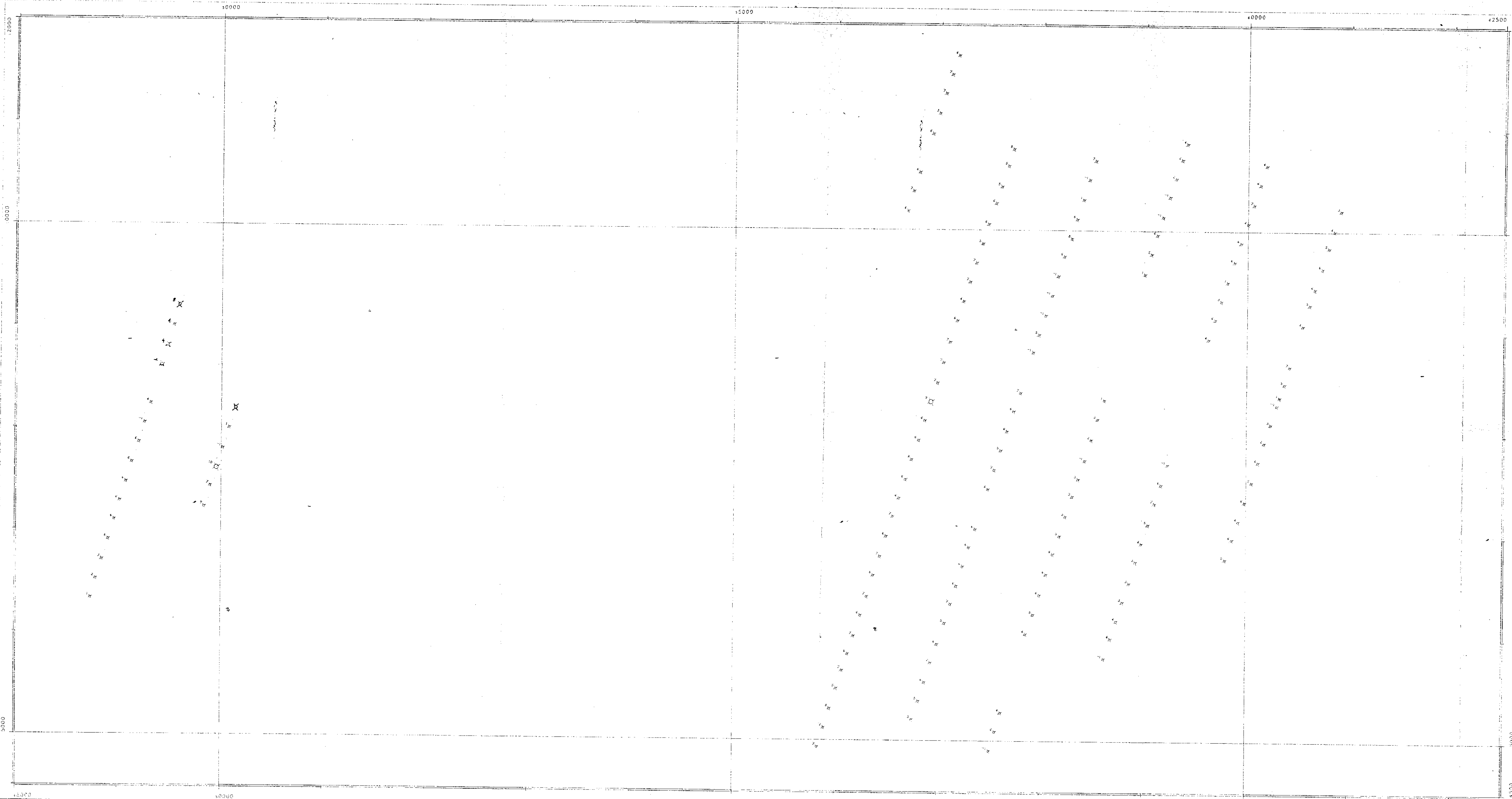
Scale:	400
Date:	18-FEB-87
Project:	
Drawn By:	ATR
Checked:	
Approved:	JAF
Drawing No.:	
	GC86 PB



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

**15,707
PART 10FG**

UTAH MINES LIMITED	
ISLAND COPPER MINE	Scale 400
1986 NORTHEAST SOILS	Date 18-FEB-87
SILVER ANOMALY POSTER	Project
	Drawn By ATR
	Checked
	Approved JAF
	Drawing No
	GC86 AC

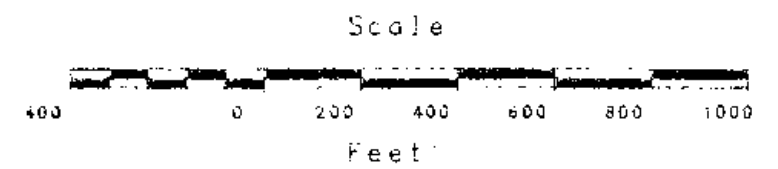
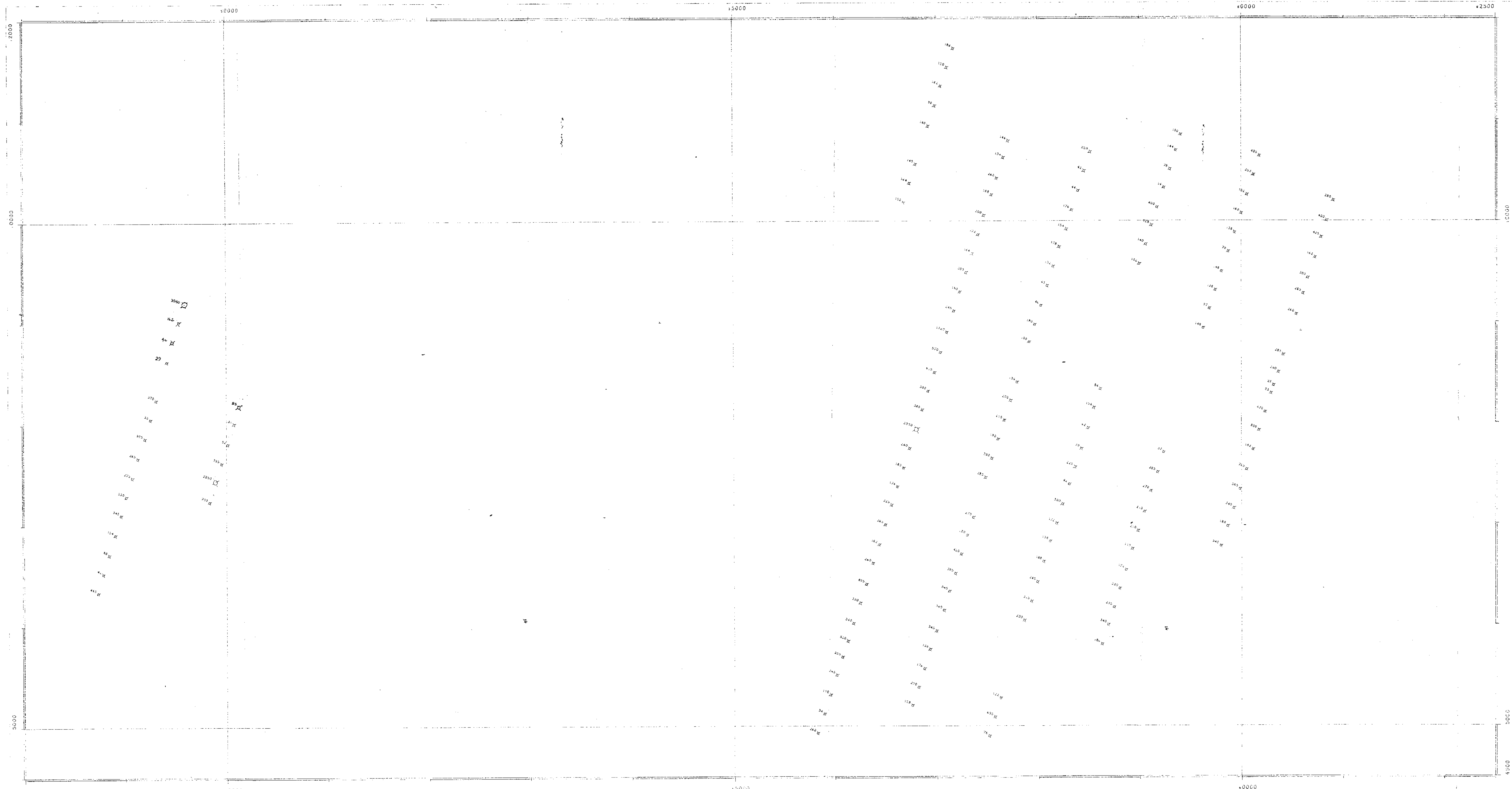


**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

15,707

PART 10F6

UTAH MINES LIMITED	
ISLAND COPPER MINE	Scale: 400
1986 NORTHEAST SOILS	Date: 19-FEB-87
MOLYBDENUM ANOMALY POSTER	Project:
	Drawn By: ATR
	Checked:
	Approved: JAF
	Drawing No.
	GC86 MO

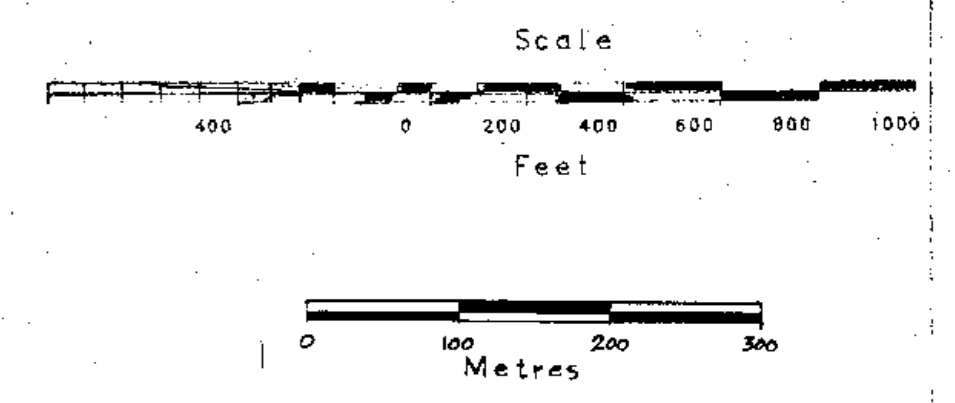
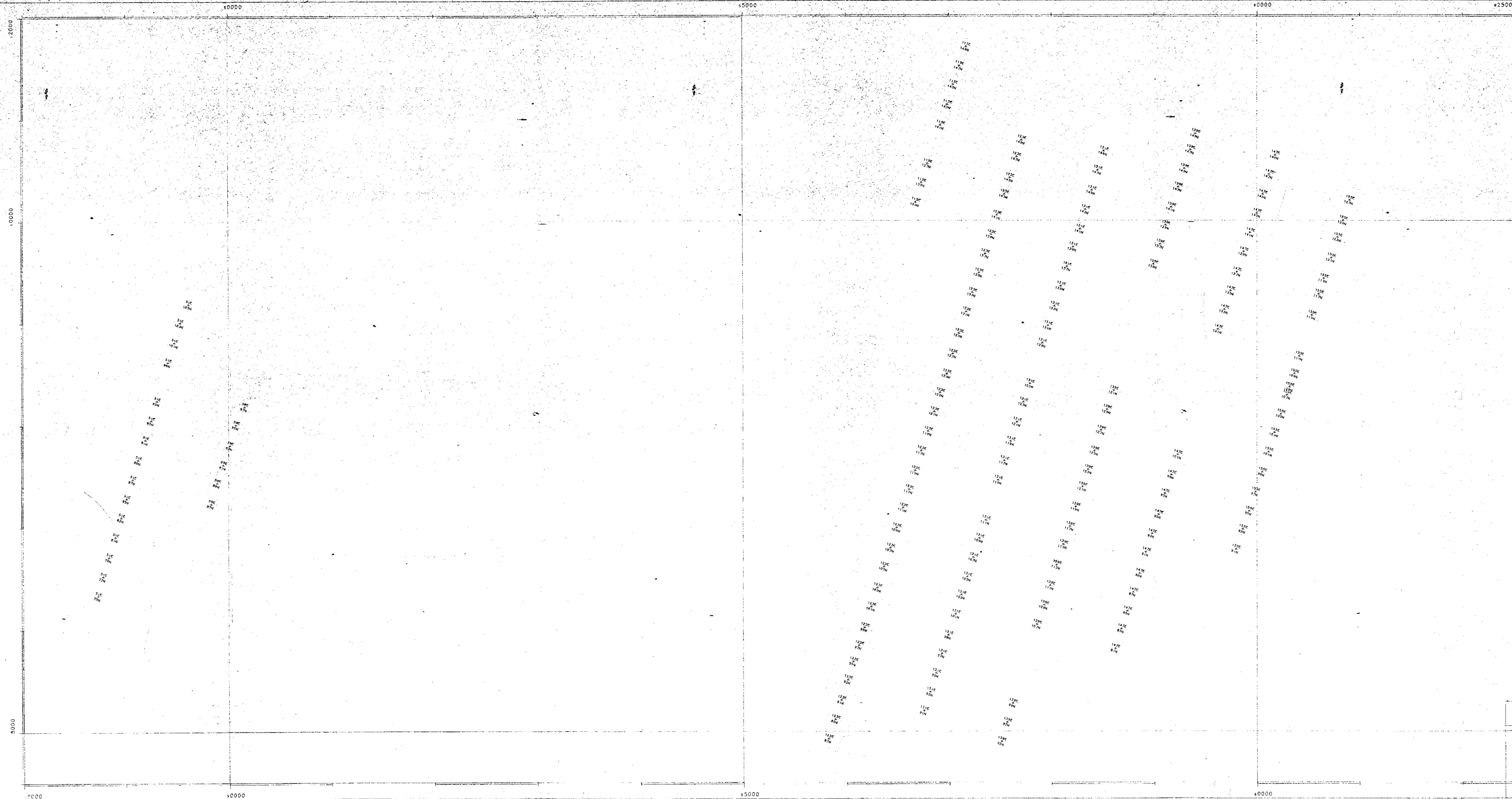


**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

15,707

PART 10FG

UTAH MINES LIMITED	
ISLAND COPPER MINE	Scale 400
1986 NORTHEAST SOILS	Date 18 FEB 87
MANGANESE ANOMALY POSTER	Drawn By AIR
	Checked
	Approved JAF
	Drawing No
	GC86 MN

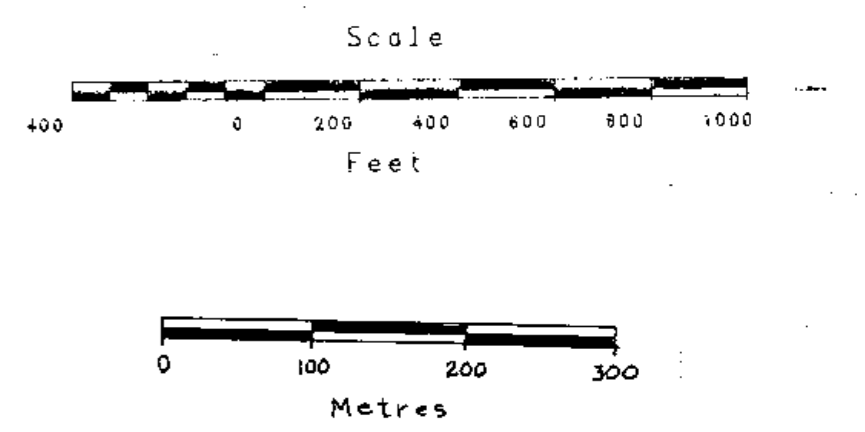
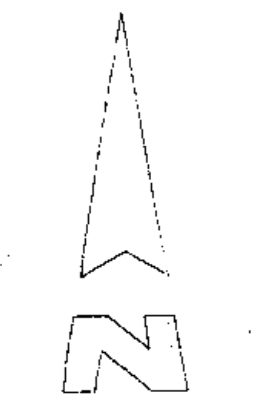
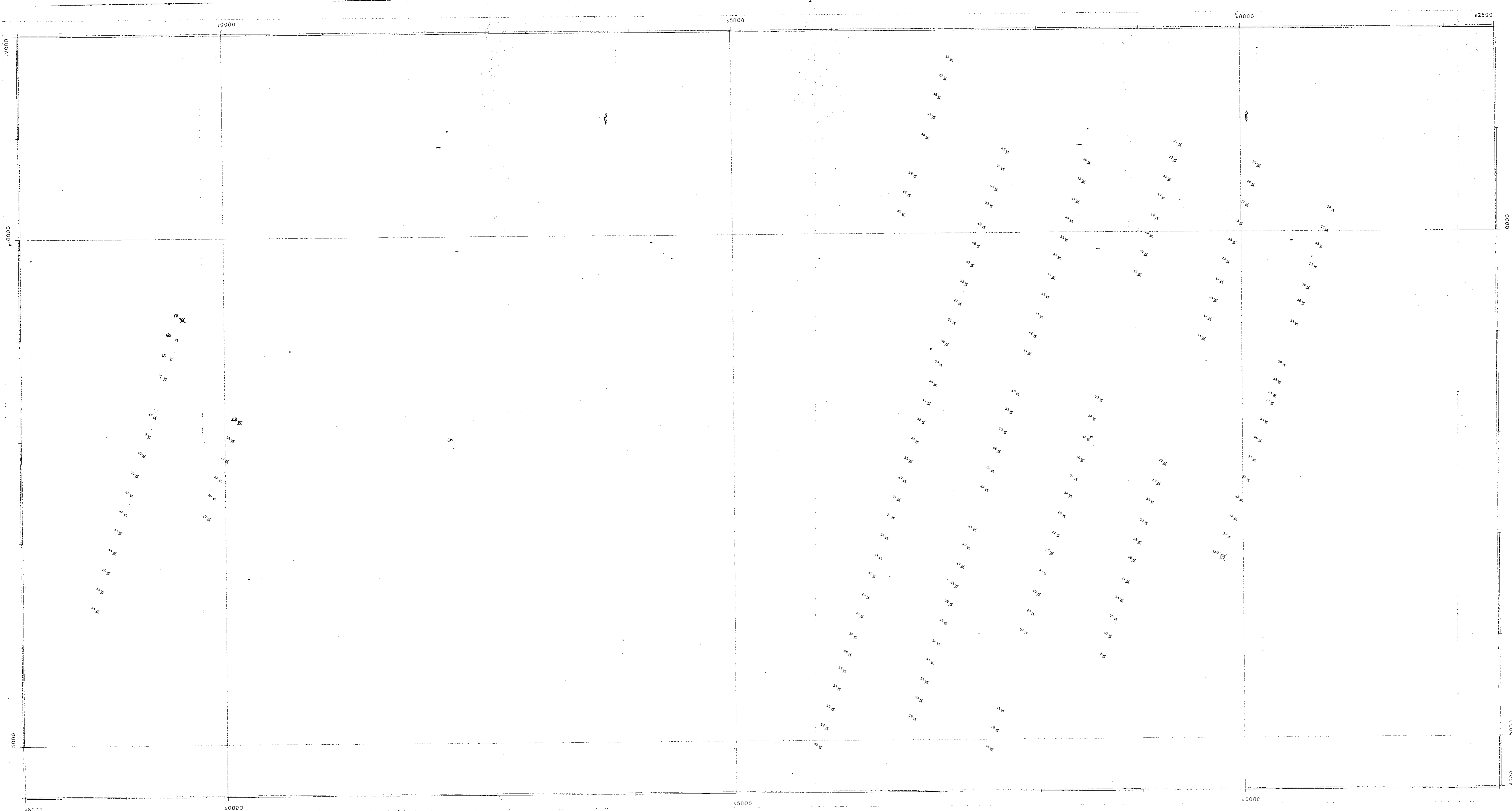


**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

15,707

PART 1 OF 6

UTAH MINES LIMITED	
ISLAND COPPER MINE	Scale: 400
1986 NORTHEAST SOILS	Date: 19-FEB-87
MINE AND STATION POSTER	Project
	Drawn By: ATR
	Checked
	Approved: JAF
	Drawing No.
	GCB6 LC

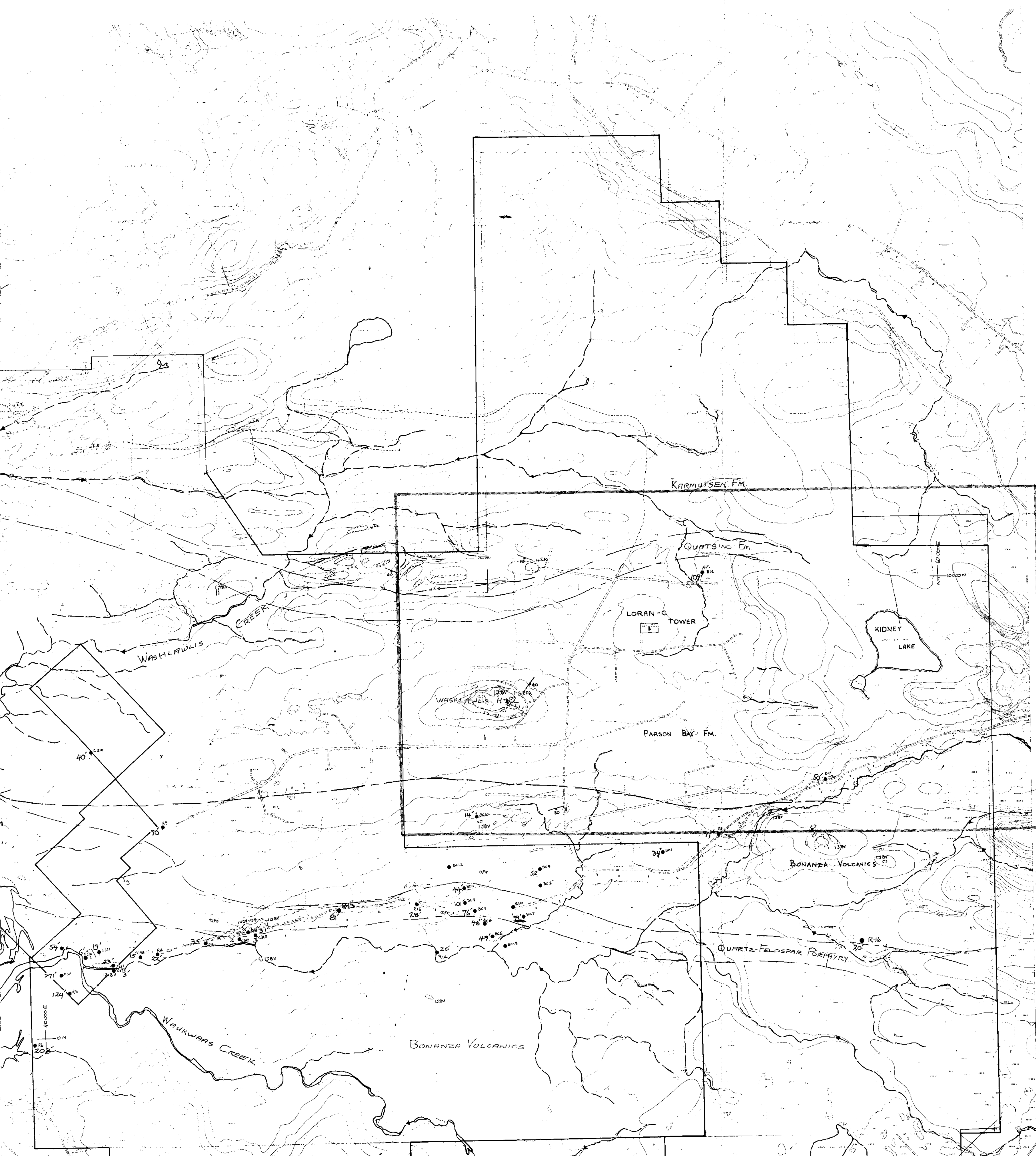


**GEOLOGICAL BRANCH
 ASSESSMENT REPORT**

**15,707
 PART 1 OF 6**

UTAH MINES LIMITED
 ISLAND COPPER MINE
 1986 NORTHEAST SOILS
 COPPER ANOMALY POSTER

Scale	400
Date	18-FEB-87
Project	
Drawn By	ATR
Checked	
Approved	JAF
Drawing No.	
	GCB6.CU



EAST GROUP

FAR EAST GROUP
 GEOLOGICAL BRANCH
 ASSESSMENT REPORT

15,707
PART 10 OF 6

- KEY**
- R-13 DIAMOND DRILL HOLE
 - ~ DRAINAGE - CREEKS
 - 120' OVERBURDEN THICKNESS
 - OUTCROPS
 - 13BV - BONANZA VOLCANICS - TUFFS
 - UTPB - PARSON BAY FM - SILTSTONES
 - UTK - KARMUTSEN FM - BASALT
 - Jg - ISLAND INTRUSIONS - GRANITOID ROCKS
 - - - GEOLOGICAL BOUNDARIES

Utah Mines Ltd.		
ISLAND COPPER MINE		
Port Hardy, B.C.		
Drawn by JF	TOPOGRAPHIC MAP:	Date AUG '86
Traced by a) Far East 87 Group		Scale 1:4000 1:12000
Approved by b) East 86 Group		Revision FEB '87
Bench Elev. SURFACE	0 100 200 300 400 500 600 METRES	Dwg. No. 2