

85-413-13730



Province of British Columbia

LOGICAL BRANCH
ASSESSMENT REPORT
Ministry of Energy, Mines and Petroleum Resources

ASSESSMENT REPORT
TITLE PAGE AND SUMMARY

TYPE OF REPORT/SURVEY(S) GEOCHEMICAL	TOTAL COST \$2258.21
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13730

AUTHOR(S) J.A. Fleming SIGNATURE(S) *J.A. Fleming*

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED April 17, 1985 YEAR OF WORK 1985

PROPERTY NAME(S) APPLE 1

COMMODITIES PRESENT NOT DETERMINED

B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN

MINING DIVISION NANAIMO NTS 92L/11W

LATITUDE 50° 38' N LONGITUDE 127° 40' W

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

OWNER(S)

(1) UTAH MINES LTD. (2)

MAILING ADDRESS

Box 370

Port Hardy, B.C. VoN 2P0

OPERATOR(S) (that is, Company paying for the work)

(1) Utah Mines Ltd. (2)

MAILING ADDRESS

Box 370

Port Hardy, B.C. VON 2P0

SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude):

The Upper Triassic and Lower Jurassic sedimentary and volcanic succession of the Vancouver and Bonanza Groups, respectively, and the Jurassic granodioritic Island Intrusions underlie much of Northern Vancouver Island. North of Holberg Inlet the succession strikes approximately west-northwest and dips gently southward younging 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, underlain by 3) Quatsino limestone and 4) Karmutsen amygdaloidal basalt flows. The rock underlying the Apple 1 claim appears to be Bonanza Volcanics andesite tuffs and granodioritic Island Intrusions.

REFERENCES TO PREVIOUS WORK

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)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for)	120	APPLE 1	\$2258.21
Soil			
Silt			
Rock			
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
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 \$2258.21

FOR MINISTRY USE ONLY	NAME OF PAC ACCOUNT	DEBIT	CREDIT	REMARKS:
Value work done (from report)				
Value of work approved				
Value claimed (from statement)				
Value credited to PAC account				
Value debited to PAC account				
Accepted Date	Rept. No.			Information Class

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INTRODUCTION

Between April 10th and April 12th, 1985, a two-man sampling crew spent six man-days collecting soil samples from flagged lines in and immediately to the west of the APPLE 1 mineral claim. This was part of a soil sampling program for the APPLE claims of Utah Mines Ltd. 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 to be collected on flagged lines at stations set 61.0 meters apart. A total of 145 samples were collected from 120 stations in the APPLE 1 claim and 25 outside the claim. A total of 145 were given a 30 element ICP analysis which included copper, molybdenum, lead and zinc.

The objective of the survey was to provide geochemical coverage in the claim group adequate to detect the presence of a near surface porphyry copper-moly deposit where the overburden was less than about 50 feet thick. The trace elements selected for study were copper, molybdenum, lead and zinc. These 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. If significant anomalies were detected, at least additional background trace element concentration data in the soil over the different rock units would be gained for use in future surveys.

LOCATION AND ACCESS

The claim is located in the Nanaimo Mining Division with co-ordinates 50° 38' N and 127° 40' 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.

CLIMATE

Precipitation at the Port Hardy airport is normally about 18 cm per year including 7.2 cm of snow. Minimum and maximum temperatures are usually in the range of 4.6 - 12.2 C.

GEOLOGY

The Upper Triassic and Lower Jurassic sedimentary and volcanic succession of the Vancouver and Bonanza Groups respectively, and the Jurassic granodioritic Island Intrusions underlie Northern Vancouver Island. North of Holberg Inlet the succession strikes approximately west-northwest and dip gently southward younging 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, andesitic and cherty tuffs, and limestone with shaley interbeds underlain by 3) Quatsino limestone and 4) Karmutsen amygdaloidal basalt flows. The rocks underlying the APPLE 1 claim appear to be the Bonanza Volcanics andesite tuffs and granodioritic Island Intrusions.

PHYSIOGRAPHY AND VEGETATION

a) Topography and Landscape

The area is in the low rolling mountains north of Holberg Inlet forming part of the Nahwitti Lowlands of the Coastal Trough physiographic subdivision. To the west of the claim lie the Pemberton Hills rising to a maximum of 585 above the inlet. To the east the relief decreases to a maximum of about 180 meters. On the claim the maximum relief is about 80 meters.

b) Drainage

i) Stream Drainage

Tributaries of the Wanokana Creek drain west from the center of the claim with a gradient of about ten percent into the main creek and then south into Holberg Inlet.

ii) Lakes

A lake measuring approximately 450 meters by 300 meters occupies the central portion of the claim. A much smaller water body lies to the south. Both drain into the above tributaries.

iii) Bogs

There is some marshy ground around the lake and the pond.

c) Overburden, Soils and Vegetation

i) Overburden

The APPLE 1 claim has a variable cover of glacial till, peat and moss. Outcrop exposure in the area is sparse.

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.

iii) Vegetation

The vegetation consists mainly of coniferous, virgin forest. The claim area has been about 25 percent logged off.

SAMPLE COLLECTION AND PREPARATION

a) Collection

i) Sampling Plan

Samples were collected using a narrow trenching shovel at stations spaced at 61.0 meter intervals along the flagged lines sides.

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, Acme Analytical Laboratories Ltd., Vancouver, B.C., for the ICP 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 computer generated for Cu, Mo, Pb and Zn and are included in Appendix B. The probability curves for each of the elements analyzed suggest the presence of more than one data population, but do not allow partitioning. Thus, the thresholds were determined on the basis of slope breaks at high concentration tails and previous experience in the area. These values and the basic distribution parameters are given in the following table.

Table 1

<u>Name</u>	<u># of Values</u>	<u>Statistical Parameters</u>				<u>Thresholds</u>
		<u>Arithmetic</u>		<u>Logarithmic</u>		
		<u>Mean</u>	<u>Std.Dev.</u>	<u>Mean</u>	<u>Std. Dev.</u>	
Cu	145	18.4	13.9	1.15	0.32	50
Mo	145	2.6	3.8	0.25	0.34	7
Pb	145	7.7	8.1	0.76	0.32	20
Zn	145	22.0	24.2	1.20	0.36	50

The assay values for copper, moly, lead and zinc are plotted on the 1:12 000 maps and contoured with contour intervals as noted on the maps. The contour intervals were selected to provide some indication of the distribution pattern of the lower assays but not to have more than 8 - 10 contours around the highest values.

DISCUSSION OF RESULTS

The geochemical results are generally low, with the exception of coincident Cu, Mo, Pb and Zn anomalies in the southeast corner of the claim and a few scattered spot single element anomalies. The prevalence of background levels in the flat, low central area of the claim around the lake may reflect thicker overburden there than over the higher ground to the north and south. An overburden thickness of 12 to 15 meters or greater is considered sufficient to mask underlying mineralization. The anomalies in the southeast corner probably reflect mineralization in the underlying rocks, possibly vein type. The significance of the spot moly highs in the center and the top corners of the claim is not clear.

Some followup geochem sampling is warranted over the southeast corner.

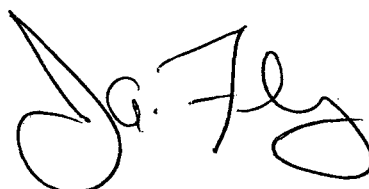
COST STATEMENT

<u>Assays</u>	30 Element ICP @ \$6.00 Sample Prep. @ <u>.60</u>	
	145 Sampled @ \$6.60	\$ 957.40
<u>Collection</u>	3 Days (2 man crew) @ \$278/day	834.00
<u>Overhead</u>	25% Labour and Supervision	208.50
<u>Vehicle</u>	3 Days @ \$25.00/day	75.00
<u>Supplies</u>	Flagging, Bags	50.00
		<hr/>
TOTAL:-		\$2,124.50
Proportion off APPLE 1 Claim :	$\frac{25}{145} \times \$2,124.50$	(366.29)
Report Writing, Data Processing		500.00
		<hr/>
TOTAL COST - APPLE 1 CLAIM	:	<u><u>\$2,258.21</u></u>

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.

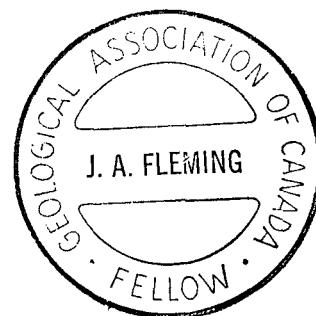


J.A. Fleming, B.Sc.,

Chief Geologist.

Island Copper Mine

Utah Mines Ltd.



GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-3 HCL-HNO3-H2O AT 99 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN, FE, CA, P, CR, MG, BA, TI, B, AL, NA, K, W, SI, ZR, CE, SN, Y, NB AND TA. AU DETECTION LIMIT BY ICP IS 0 PPM.
 - SAMPLE TYPE: SOILS

DATE RECEIVED: APR 19 1985 DATE REPORT MAILED: *April 23/85* ASSAYER: *J. Saundry* DEAN TOYE OR TOM SAUNDRY, CERTIFIED B.C. ASSAYER

UTAH MINES PROJECT - 35739 FILE # 85-0409

PAGE 1

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	Ba	Ti	B	Al	Na	K	W
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	
* 2748E 2329N	24	8	13	14	.1	2	2	156	3.30	5	5	ND	1	16	1	2	3	97	.19	.02	2	11	.09	25	.20	5	.72	.01	.01	1
2748E 2327N	7	20	16	29	.1	7	3	175	1.78	6	10	ND	3	21	1	3	2	77	.37	.03	6	30	.39	22	.28	3	2.24	.01	.01	1
2748E 2325N	7	12	6	11	.1	4	7	229	.80	2	5	ND	1	21	1	2	2	25	.33	.09	5	7	.08	41	.07	3	.81	.01	.02	1
2748E 2323N	3	21	5	32	.2	8	5	261	2.08	9	5	ND	2	26	1	2	5	64	.42	.05	6	20	.53	23	.21	4	2.46	.01	.01	1
2748E 2321N	1	7	2	14	.2	1	1	16	.06	2	5	ND	1	24	1	2	3	1	.12	.04	2	1	.21	12	.01	6	.11	.01	.03	1
2748E 2319N	5	40	6	45	.1	7	5	278	5.89	12	5	ND	6	14	1	2	2	123	.22	.05	9	45	.30	14	.30	10	6.11	.01	.01	1
2748E 2317N	2	3	5	14	.2	3	4	212	2.72	4	5	ND	2	12	1	2	2	110	.20	.05	3	6	.39	11	.09	6	.65	.02	.03	1
2748E 2315N	2	38	8	34	.1	10	4	710	3.98	7	5	ND	1	14	1	2	2	120	.29	.07	5	56	.31	20	.36	6	4.18	.01	.01	1
2748E 2313N	1	4	3	10	.2	2	1	70	.05	2	5	ND	1	30	1	2	2	1	.12	.02	2	1	.18	19	.01	4	.08	.02	.01	1
2748E 2311N	2	14	8	14	.1	4	1	28	4.01	7	5	ND	1	16	1	2	2	109	.22	.03	2	40	.12	12	.27	4	1.18	.01	.01	1
2748E 2309N	2	21	6	26	.1	13	4	156	3.07	6	12	ND	4	16	1	2	2	146	.32	.02	3	59	.36	16	.49	5	3.03	.01	.01	1
2748E 2307N	1	7	2	10	.3	2	1	41	.11	2	5	ND	1	31	1	2	2	2	.83	.06	2	1	.10	27	.01	5	.09	.01	.04	1
2748E 2305N	1	16	9	59	.6	3	1	59	.41	3	5	ND	1	30	1	2	2	4	.23	.15	3	4	.12	15	.01	3	.22	.03	.04	1
2748E 2303N	1	7	3	18	.3	3	1	18	.09	2	5	ND	1	32	1	2	3	2	.15	.05	2	2	.15	16	.01	7	.09	.01	.03	1
2748E 2301N	1	11	6	5	.3	4	1	17	1.41	7	5	ND	1	7	1	2	3	38	.06	.10	3	22	.02	12	.07	3	.96	.01	.01	1
2748E 2299N	1	8	12	16	.1	13	2	87	5.64	3	5	ND	2	6	1	2	7	295	.15	.02	4	120	.32	8	.56	8	1.08	.01	.01	1
2748E 2297N	1	22	9	27	.1	15	3	135	6.74	4	5	ND	4	9	1	2	3	200	.18	.03	9	150	.33	10	.46	14	4.37	.01	.01	1
2748E 2295N	1	14	5	25	.1	17	8	348	2.27	2	5	ND	1	24	1	2	3	68	.47	.05	4	42	.49	28	.18	5	1.38	.02	.01	1
2748E 2293N	1	18	9	31	.2	67	9	257	2.33	3	5	ND	2	12	1	2	2	77	.63	.05	2	97	1.62	13	.22	5	1.38	.03	.02	1
2748E 2291N	1	19	9	19	.1	8	2	93	5.61	8	5	ND	3	9	1	2	5	171	.19	.03	2	40	.16	11	.42	9	1.01	.01	.01	1
2748E 2289N	2	27	12	35	.1	13	4	179	5.60	12	5	ND	2	12	1	2	6	172	.26	.03	5	69	.38	10	.42	11	3.33	.01	.01	1
2748E 2287N	1	22	10	15	.1	10	4	48	.46	4	5	ND	1	51	1	2	2	24	.48	.08	7	6	.14	97	.03	3	1.06	.01	.01	1
2748E 2285N	1	21	6	27	.2	9	2	139	1.36	4	9	ND	3	14	1	2	3	60	.22	.04	5	37	.32	22	.28	3	3.07	.01	.01	1
2748E 2283N	1	3	2	2	.2	1	1	15	.25	3	5	ND	1	5	1	2	4	8	.03	.01	5	1	.01	38	.01	3	.25	.01	.02	1
2748E 2281N	1	6	4	10	.1	4	1	134	1.15	6	5	ND	1	16	1	2	4	58	.12	.03	2	10	.13	11	.08	7	.35	.01	.02	1
2756E 2328N	4	8	13	13	.2	2	1	116	1.03	2	5	ND	3	14	1	2	2	75	.11	.03	4	12	.12	20	.27	3	.99	.01	.02	1
2756E 2327N	11	22	9	18	.3	4	1	42	7.12	24	5	ND	2	21	1	2	2	116	.27	.12	7	7	.06	38	.03	15	1.25	.02	.02	1
2756E 2325N	6	28	6	23	.1	6	3	134	4.59	10	5	ND	7	10	1	3	2	101	.17	.03	9	44	.25	19	.26	16	6.90	.01	.01	1
2756E 2323N	8	16	11	35	.1	9	4	239	4.98	8	5	ND	4	20	1	2	3	135	.29	.04	8	32	.41	27	.30	9	2.00	.02	.01	1
2756E 2321N	2	28	6	24	.2	7	3	258	3.84	6	5	ND	5	13	1	2	2	103	.24	.03	7	32	.20	15	.26	9	2.52	.01	.01	1
2756E 2319N	1	35	7	41	.1	18	8	837	3.27	8	5	ND	3	24	1	2	2	101	.62	.04	6	35	.55	48	.26	9	1.94	.02	.01	1
2756E 2317N	1	23	7	17	.2	8	4	136	3.22	4	5	ND	1	17	1	2	2	93	.17	.04	4	24	.15	25	.23	6	1.53	.01	.01	1
2756E 2315N	1	35	3	27	.1	11	3	126	2.63	6	5	ND	1	13	1	2	2	93	.28	.03	5	47	.30	17	.30	4	3.65	.01	.01	1
2756E 2313N	1	11	7	4	.2	2	1	25	.30	2	5	ND	1	9	1	2	2	20	.08	.04	5	13	.02	15	.13	2	.70	.01	.01	1
2756E 2311N	1	11	10	9	.1	4	1	63	1.61	3	5	ND	2	11	1	2	2	106	.15	.02	3	27	.10	15	.36	3	1.15	.01	.01	1
2756E 2309N	1	10	2	9	.3	2	1	29	.08	2	5	ND	1	36	1	2	3	3	.15	.04	3	1	.16	19	.01	6	.13	.02	.01	1
2756E 2307N	1	10	2	4	.1	2	1	45	.31	2	5	ND	1	16	1	2	3	23	.27	.03	4	11	.06	19	.11	2	.73	.01	.01	1
STD C	18	60	40	132	7.3	70	27	1060	3.94	40	18	7	37	49	16	15	20	58	.48	.14	36	58	.88	177	.07	58	1.72	.06	.11	12

UTAH MINES PROJECT - 35739 FILE # BS-0409

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
2756E 2305N	1	9	2	8	.2	3	1	19	.25	2	5	ND	1	36	1	2	3	1	.29	.06	2	3	.11	34	.01	5	.20	.02	.02	1
2756E 2303N	1	8	16	4	.1	2	1	46	.39	2	5	ND	2	6	1	2	2	80	.05	.01	2	88	.03	12	.47	2	.69	.01	.01	1
2756E 2301N	1	13	2	11	.5	4	1	83	.07	2	5	ND	1	30	1	2	2	2	.30	.04	2	3	.11	17	.01	5	.09	.02	.03	1
2756E 2299N	1	10	13	6	.1	2	1	32	.65	2	5	ND	1	8	1	2	2	72	.08	.01	2	51	.03	13	.37	2	.93	.01	.01	1
2756E 2297N	2	29	5	27	.1	13	2	129	5.39	4	5	ND	5	8	1	2	2	159	.19	.02	4	69	.31	13	.46	4	3.35	.01	.01	1
2756E 2295N	3	26	17	31	.1	13	1	149	9.71	2	6	ND	5	8	1	2	6	252	.16	.03	13	129	.31	10	.54	5	3.81	.01	.01	1
2756E 2293N	4	57	10	41	.1	27	4	145	3.13	4	5	ND	2	11	1	2	2	105	.26	.04	3	57	.45	22	.30	3	3.75	.01	.01	1
2756E 2291N	3	33	17	38	.1	17	3	165	4.85	11	5	ND	4	9	1	2	3	132	.16	.03	2	82	.44	16	.38	3	5.07	.01	.01	1
2756E 2289N	1	6	2	16	.2	2	1	24	.09	3	5	ND	1	19	1	2	4	2	.12	.03	2	3	.15	12	.01	9	.12	.02	.01	1
2756E 2287N	6	11	16	17	.3	5	4	585	5.09	11	5	ND	3	7	1	2	4	111	.08	.06	2	23	.10	21	.20	4	1.94	.01	.01	1
2756E 2285N	2	7	8	4	.2	2	1	34	1.00	13	5	ND	2	7	1	2	2	38	.07	.04	2	5	.02	23	.06	3	.49	.01	.02	1
2756E 2283N	3	43	11	37	.1	13	2	152	4.53	10	5	ND	3	12	1	2	2	153	.20	.04	2	74	.32	23	.35	4	3.92	.01	.01	1
2756E 2281N	3	50	8	45	.1	18	6	284	5.07	8	7	ND	4	12	1	2	4	128	.19	.07	3	71	.36	21	.28	6	5.12	.01	.01	1
2764E 2329N	8	24	6	27	.1	6	3	170	1.45	2	5	ND	4	19	1	2	2	67	.27	.04	6	18	.30	37	.21	2	3.43	.01	.01	1
2764E 2327N	4	22	10	30	.1	8	2	200	3.95	7	5	ND	5	19	1	2	2	110	.32	.03	2	26	.40	25	.25	3	3.87	.01	.01	1
2764E 2325N	3	15	7	19	.1	4	3	125	.57	3	5	ND	1	36	1	2	2	36	.48	.07	4	20	.13	41	.12	2	1.73	.02	.01	1
2764E 2323N	2	33	11	25	.1	8	1	229	5.68	3	11	ND	7	9	1	2	3	176	.17	.04	4	58	.25	18	.44	5	3.83	.01	.01	1
2764E 2321N	2	37	5	23	.1	10	1	145	2.45	3	5	ND	3	10	1	2	2	91	.21	.05	2	54	.29	16	.34	3	4.21	.01	.01	1
2764E 2319N	3	38	10	22	.1	8	1	103	3.76	9	5	ND	2	9	1	2	2	128	.17	.04	2	58	.23	15	.40	3	4.05	.01	.01	1
2764E 2317N	4	25	8	22	.1	8	1	133	6.04	11	5	ND	4	11	1	2	2	182	.22	.02	3	62	.24	12	.50	6	2.79	.01	.01	1
2764E 2315N	1	5	2	6	.2	2	1	10	.11	2	5	ND	1	35	1	2	2	2	.41	.04	2	2	.09	17	.01	2	.12	.01	.02	1
2764E 2313N	3	16	10	15	.1	5	1	84	5.66	4	5	ND	3	7	1	2	2	244	.13	.01	3	67	.15	10	.53	4	2.04	.01	.01	1
2764E 2311N	23	28	2	21	.4	12	9	79	1.27	12	5	ND	1	57	1	2	2	48	2.04	.05	3	14	.20	14	.04	7	1.00	.01	.01	1
2764E 2309N	3	13	9	16	.1	4	1	86	2.06	3	7	ND	3	11	1	2	2	112	.12	.02	2	21	.39	17	.32	2	.93	.01	.01	1
2764E 2307N	1	4	3	12	.3	1	1	99	.33	4	5	ND	1	11	1	2	2	21	.08	.02	2	3	.05	20	.06	5	.12	.01	.02	1
2764E 2305N	1	11	2	12	.2	4	1	19	.24	2	5	ND	1	17	1	2	2	6	.32	.07	2	4	.06	18	.01	2	.33	.01	.01	1
2764E 2303N	1	6	2	13	.3	3	1	28	.08	2	5	ND	1	53	1	2	2	1	.94	.05	2	1	.13	38	.01	4	.10	.01	.04	1
2764E 2301N	1	6	8	12	.2	7	1	55	1.42	2	5	ND	3	15	1	2	2	88	.07	.02	2	32	.23	19	.32	2	.51	.01	.01	1
2764E 2299N	1	7	2	3	.1	5	1	9	.19	4	5	ND	1	17	1	2	2	5	.22	.06	2	5	.05	20	.02	2	.50	.01	.01	1
2764E 2297N	1	21	6	16	.1	12	1	70	1.21	3	5	ND	1	11	1	2	2	81	.17	.02	2	58	.24	17	.32	2	2.13	.01	.01	1
2764E 2295N	1	6	2	17	.3	3	1	25	.07	4	5	ND	1	31	1	2	4	3	.27	.05	2	3	.14	15	.01	2	.09	.03	.04	1
2764E 2293N	1	13	2	7	.2	7	1	71	.15	2	5	ND	1	39	1	2	3	4	.50	.02	2	2	.13	47	.01	2	.47	.01	.01	1
2764E 2291N	2	21	12	34	.1	13	2	218	5.99	9	8	ND	4	9	1	2	4	180	.17	.04	2	66	.27	16	.41	4	2.84	.01	.01	1
2764E 2289N	1	9	12	19	.2	6	1	121	5.05	9	5	ND	3	7	1	2	3	136	.08	.03	2	32	.11	24	.27	4	2.02	.01	.01	1
2764E 2287N	1	11	4	19	.3	5	1	539	.57	4	5	ND	1	10	1	2	4	6	.20	.16	2	1	.12	25	.01	2	.60	.03	.05	1
2764E 2285N	2	26	17	45	.6	13	7	1491	4.86	13	5	ND	3	9	1	2	7	97	.14	.20	2	37	.26	13	.14	6	3.48	.01	.02	1
2764E 2283N	1	37	11	39	.1	19	4	292	5.76	7	5	ND	4	11	1	2	4	161	.19	.06	7	105	.44	16	.41	5	4.56	.01	.01	1
2764E 2281N	3	41	7	36	.5	14	8	277	4.75	3	9	ND	5	14	1	2	4	120	.19	.05	3	59	.29	29	.25	4	4.74	.01	.01	1
STD C	19	60	40	132	7.5	70	27	1076	3.94	39	15	7	36	49	16	15	21	58	.48	.12	40	58	.88	177	.07	40	1.72	.06	.09	12

UTAH MINES PROJECT - 35739 FILE # 85-0409

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm
2772E 2329N	2	13	5	17	.3	6	2	122	2.51	5	5	ND	1	21	1	2	2	87	.36	.03	4	24	.31	19	.26	4	.83	.01	.01	1
2772E 2327N	4	18	4	45	.1	13	13	970	2.79	7	5	ND	1	23	1	2	2	66	.43	.05	9	22	.59	28	.18	5	2.15	.02	.02	1
2772E 2325N	1	37	6	28	.1	7	11	611	3.52	6	5	ND	2	13	1	2	2	118	.23	.06	11	28	.40	19	.19	7	3.14	.01	.01	1
2772E 2323N	2	45	11	34	.1	14	4	184	4.93	14	5	ND	3	11	1	2	2	137	.25	.05	10	53	.37	27	.42	4	4.76	.01	.01	1
2772E 2321N	2	21	6	6	.3	4	1	44	1.07	4	5	ND	1	14	1	2	2	37	.12	.07	3	18	.04	35	.15	4	1.16	.01	.01	1
2772E 2319N	1	9	8	7	.1	2	1	30	.56	2	5	ND	1	10	1	2	2	48	.11	.02	3	19	.02	16	.39	4	.58	.01	.01	1
2772E 2317N	1	33	2	20	.1	10	2	106	2.28	2	5	ND	1	10	1	2	2	81	.26	.03	6	40	.28	12	.33	4	2.69	.01	.01	1
2772E 2315N	1	15	2	24	.1	27	1	214	1.73	2	5	ND	1	9	1	2	2	68	.36	.04	5	71	.65	19	.31	4	1.39	.02	.01	1
2772E 2313N	1	9	5	17	.3	4	1	29	.12	2	5	ND	1	41	1	2	2	4	.46	.06	2	1	.14	21	.01	7	.12	.02	.03	1
2772E 2311N	1	6	3	11	.4	1	1	23	.16	2	5	ND	1	32	1	2	2	5	.46	.11	2	1	.10	18	.03	12	.14	.01	.04	1
2772E 2309N	1	7	2	6	.1	2	1	12	.22	2	5	ND	1	18	1	2	2	3	.10	.05	2	9	.07	21	.02	5	.17	.01	.01	1
2772E 2307N	1	4	3	7	.2	1	1	20	.14	2	5	ND	1	20	1	2	5	1	.20	.04	2	1	.17	7	.01	6	.05	.02	.04	1
2772E 2305N	1	2	2	16	.1	2	1	14	.06	2	5	ND	1	19	1	2	6	1	.07	.03	2	1	.23	9	.01	3	.03	.02	.02	1
2772E 2303N	1	8	2	6	.1	2	1	28	.25	4	5	ND	1	11	1	2	6	2	.11	.07	2	5	.04	10	.01	4	.16	.01	.01	1
2772E 2301N	1	5	2	10	.1	2	1	24	.37	2	5	ND	1	13	1	2	5	8	.04	.06	2	5	.13	21	.03	5	.21	.02	.04	1
2772E 2299N	1	4	2	8	.1	2	1	10	.16	3	5	ND	1	35	1	2	5	1	.26	.05	2	1	.19	30	.01	5	.10	.01	.02	1
2772E 2297N	1	48	7	31	.1	20	4	169	5.61	10	5	ND	1	10	1	4	7	165	.20	.03	9	107	.41	13	.39	9	5.83	.01	.01	1
2772E 2295N	1	7	4	11	.6	3	1	32	.14	3	5	ND	1	35	1	2	4	5	.96	.06	2	4	.11	19	.01	12	.12	.01	.03	1
2772E 2293N	1	6	5	23	.4	2	1	154	.08	2	5	ND	1	28	1	2	6	1	.55	.07	2	1	.06	16	.01	9	.09	.01	.05	1
2772E 2291N	1	6	2	12	.1	1	1	185	.03	2	5	ND	1	7	1	2	6	1	.41	.04	2	1	.06	3	.01	7	.03	.01	.05	1
2772E 2289N	1	6	2	9	.1	3	1	75	.08	3	5	ND	1	14	1	2	4	1	.39	.06	2	1	.11	5	.01	5	.11	.02	.02	1
2772E 2287N	1	18	3	24	.3	10	3	122	4.91	7	5	ND	1	24	1	2	2	143	.20	.06	9	49	.30	21	.37	9	2.79	.01	.01	1
2772E 2285N	1	90	3	29	.3	18	53	734	4.16	5	5	ND	1	11	1	4	2	63	.15	.24	19	77	.20	25	.08	9	7.80	.01	.01	1
2772E 2283N	1	34	3	30	.2	14	5	144	5.43	12	5	ND	4	29	1	2	2	154	.27	.06	11	72	.33	22	.29	9	5.58	.01	.01	1
2780E 2329N	4	18	5	15	.3	4	2	53	1.19	5	5	ND	1	13	1	2	2	31	.21	.13	4	12	.05	31	.04	8	1.29	.02	.02	1
2780E 2327N	9	13	7	14	.1	3	3	83	1.03	3	5	ND	1	8	1	2	4	35	.11	.06	9	10	.24	18	.17	2	2.68	.01	.02	1
2780E 2325N	1	10	3	10	.3	3	1	26	.24	2	5	ND	1	26	1	2	4	2	.37	.05	2	1	.09	32	.01	5	.18	.02	.04	1
2780E 2323N	1	8	8	17	.1	4	2	211	2.87	3	5	ND	3	18	1	2	2	80	.21	.04	6	11	.42	19	.24	6	.76	.02	.02	1
2780E 2321N	2	16	8	4	.1	3	1	20	.20	3	5	ND	1	7	1	2	4	27	.05	.07	3	18	.03	14	.12	2	.99	.01	.01	1
2780E 2319N	1	11	3	3	.1	2	1	30	.18	2	5	ND	1	27	1	2	2	5	.61	.05	2	2	.10	13	.01	3	.29	.02	.01	1
2780E 2317N	1	7	6	11	.3	5	2	83	1.06	5	6	ND	1	7	1	2	6	47	.18	.04	4	20	.32	14	.21	3	.85	.01	.01	1
2780E 2315N	1	5	5	2	.3	2	1	10	.46	2	6	ND	1	2	1	2	6	32	.01	.05	3	14	.02	6	.13	3	.52	.01	.02	1
2780E 2313N	1	19	4	3	.1	7	1	25	.42	5	5	ND	1	13	1	2	3	46	.19	.03	5	34	.08	19	.14	4	1.34	.01	.01	1
2780E 2311N	1	18	6	14	.1	8	2	80	.97	4	5	ND	1	12	1	2	6	55	.17	.03	5	35	.20	16	.25	4	2.22	.01	.01	1
2780E 2301N	1	12	3	7	.3	3	1	24	.46	3	5	ND	1	18	1	2	6	11	.17	.08	3	7	.08	17	.02	4	.64	.01	.03	1
2780E 2299N	1	7	2	3	.3	2	1	32	.10	2	5	ND	1	55	1	2	4	1	.18	.04	2	1	.21	40	.01	5	.10	.01	.03	1
2780E 2297N	1	8	2	7	.1	1	1	27	.04	2	5	ND	1	20	1	2	5	1	.23	.02	2	1	.11	7	.01	8	.04	.02	.02	1
STD C	18	60	40	132	7.1	70	27	1070	3.94	38	17	7	34	49	16	15	22	58	.48	.15	38	58	.88	177	.07	40	1.72	.06	.10	12

UTAH MINES PROJECT - 35739 FILE # 85-0409

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	M
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
2780E 2295N	4	32	10	32	.1	15	3	179	5.18	3	5	ND	2	10	1	2	2	145	.19	.03	2	92	.31	17	.39	2	4.22	.01	.01	1
2780E 2293N	3	34	12	27	.1	10	2	257	6.46	6	5	ND	2	10	1	2	2	221	.18	.05	3	83	.22	10	.50	2	2.76	.02	.01	1
2780E 2291N	1	19	10	18	.1	25	3	259	1.65	2	5	ND	1	14	1	2	3	50	.39	.09	2	81	.50	12	.17	2	.89	.04	.04	1
2780E 2289N	2	19	15	25	.1	11	1	131	7.61	3	5	ND	2	11	1	2	2	195	.20	.03	4	82	.29	14	.42	2	2.22	.01	.01	1
2780E 2287N	2	38	7	32	.1	12	2	131	5.28	6	10	ND	3	9	1	3	2	142	.16	.04	2	72	.30	14	.36	2	5.29	.01	.01	1
2780E 2285N	7	29	22	50	.1	21	3	154	8.16	3	11	ND	3	8	1	2	2	263	.14	.04	11	153	.33	14	.55	2	5.76	.01	.01	1
2780E 2283N	2	14	13	22	.1	16	1	98	5.84	2	5	ND	1	8	1	2	2	309	.16	.02	2	114	.34	14	.56	2	1.05	.01	.01	1
2780E 2281N	2	17	18	40	.1	66	9	194	9.14	7	5	ND	1	8	1	2	2	369	.13	.04	13	380	1.19	13	.77	2	2.61	.01	.01	1
2788E 2329N	25	19	14	47	.1	9	5	319	3.53	15	5	ND	4	50	1	2	2	96	.68	.04	9	17	.69	29	.27	3	2.60	.01	.01	1
2788E 2327N	7	6	8	6	.1	1	1	58	.64	2	5	ND	1	11	1	2	2	41	.13	.01	2	6	.06	28	.13	2	.90	.01	.01	1
2788E 2325N	3	8	10	16	.1	3	1	168	5.10	7	5	ND	4	10	1	2	2	123	.07	.02	2	10	.23	12	.24	2	1.20	.01	.01	1
2788E 2323N	3	15	9	18	.1	4	2	176	6.03	11	5	ND	3	11	1	2	3	164	.13	.03	4	21	.19	31	.22	2	3.89	.01	.01	1
2788E 2321N	3	22	7	22	.1	7	2	178	5.48	9	7	ND	4	7	1	3	2	176	.13	.04	5	44	.19	16	.34	2	3.84	.01	.01	1
2788E 2319N	1	8	3	8	.1	5	2	56	2.33	4	5	ND	1	29	1	2	3	98	.14	.02	2	16	.10	32	.13	2	.40	.02	.02	1
2788E 2317N	1	6	2	12	.4	1	1	38	.12	2	5	ND	1	39	1	2	6	3	.67	.05	2	1	.12	26	.01	4	.09	.01	.04	1
2788E 2315N	2	8	11	10	.1	3	1	56	4.20	2	5	ND	1	18	1	2	2	260	.15	.02	2	23	.10	20	.43	2	.59	.01	.01	1
2788E 2313N	1	13	2	2	.2	3	1	15	.28	2	5	ND	1	17	1	2	5	18	.29	.04	2	7	.04	21	.02	2	.57	.01	.01	1
2788E 2311N	1	6	7	5	.1	2	1	18	.47	2	5	ND	1	11	1	2	2	62	.09	.01	2	28	.05	11	.30	2	.64	.01	.01	1
2788E 2309N	1	13	2	5	.2	2	1	13	.14	2	5	ND	1	7	1	2	6	4	.06	.05	2	1	.04	5	.01	2	.28	.01	.01	1
2788E 2307N	1	13	4	18	.2	10	3	214	1.48	3	5	ND	1	21	1	3	5	57	.41	.03	2	33	.49	24	.15	2	1.38	.02	.02	1
2788E 2305N	2	20	16	11	.3	6	1	36	.54	2	5	ND	1	22	1	2	4	40	.14	.06	2	34	.06	32	.09	2	1.21	.02	.02	1
2788E 2303N	2	5	10	6	.1	4	1	56	.66	2	5	ND	1	12	1	3	2	67	.07	.01	2	21	.08	17	.32	2	.77	.01	.01	1
2788E 2301N	1	18	6	6	.5	5	1	23	.50	2	5	ND	1	15	1	2	4	18	.12	.09	2	10	.04	26	.03	4	1.27	.01	.01	1
2788E 2299N	2	5	8	6	.2	2	1	38	2.65	2	5	ND	1	16	1	2	2	38	.13	.03	2	14	.03	17	.15	2	.42	.01	.01	1
2788E 2297N	1	11	6	23	.2	15	4	122	2.91	2	5	ND	1	34	1	2	5	95	.18	.03	2	59	.48	28	.14	3	.88	.02	.02	1
2788E 2295N	3	45	10	38	.1	24	6	238	5.62	6	9	ND	3	10	1	5	2	123	.16	.05	9	157	.38	14	.28	2	8.14	.01	.01	1
2788E 2293N	1	7	13	16	.2	15	2	150	1.75	2	5	ND	1	7	1	3	2	117	.19	.05	2	64	.30	14	.23	2	.58	.02	.02	1
2788E 2291N	3	55	11	40	.2	18	8	783	4.80	2	5	ND	2	10	1	2	2	130	.18	.06	7	75	.34	17	.29	2	5.27	.01	.01	1
2788E 2289N	3	28	15	41	.1	28	9	768	6.76	3	5	ND	2	10	1	2	2	217	.18	.11	10	150	.50	12	.50	2	3.79	.03	.01	1
2788E 2287N	1	9	2	14	.2	2	1	165	.09	2	5	ND	1	14	1	2	2	3	.29	.04	2	2	.10	3	.01	2	.10	.01	.01	1
2788E 2285N	11	32	23	221	.4	38	19	1378	4.55	2	5	ND	1	28	1	2	2	168	.46	.03	7	93	.72	28	.35	2	2.22	.01	.01	1
2788E 2283N	4	35	87	155	.3	39	4	183	7.54	4	9	ND	2	12	1	2	2	221	.25	.03	16	159	.37	15	.53	2	4.09	.01	.01	1
2788E 2281N	14	52	10	89	.2	26	11	879	2.48	3	5	ND	2	15	1	3	2	106	.38	.09	4	92	.40	33	.29	2	3.33	.01	.01	1
STD C	19	60	40	132	7.3	70	27	1065	3.94	38	15	7	34	49	16	16	20	58	.48	.12	40	58	.88	177	.07	40	1.72	.06	.09	12

APPLE 1 CLAIM GEOCHEM - 1985

VARIABLE NAME IS: CU
 CALCULATED PARAMETERS: MEAN = 18.3931 STD.DEV. = 13.8831 VARIANCE = 192.7402

PERCENTAGE HISTOGRAM OF ARITHMETIC VALUES

ICELL	LOWER LIMIT	NOI	PCTI	LOG LIMIT
11	-23.25621	01	0.01	*****
21	-19.78551	01	0.01	*****
31	-16.31471	01	0.01	*****
41	-12.84391	01	0.01	*****
51	-9.37321	01	0.01	*****
61	-5.90241	01	0.01	*****
71	-2.43161	01	0.01	*****
81	1.03911	71	4.81****	0.01671
91	4.50991	271	18.61*****	0.65421
101	7.98071	271	18.61*****	0.90201
111	11.45151	131	9.01*****	1.05891
121	14.92221	141	9.71*****	1.17381
131	18.39301	131	9.01*****	1.26471
141	21.86381	81	5.51*****	1.33971
151	25.33461	71	4.81*****	1.40371
161	28.80531	41	2.81***	1.45951
171	32.27611	81	5.51*****	1.50891
181	35.74691	61	4.11****	1.55321
191	39.21771	21	1.41*	1.59351
201	42.68851	31	2.11**	1.63031
211	46.15921	11	0.71*	1.66431
221	49.63001	21	1.41*	1.69571
231	53.10081	11	0.71*	1.72511
241	56.57161	11	0.71*	1.75261

LOG VALUES: MEAN = 1.1507 STD.DEV. = 0.3213 VARIANCE = 0.1032

PERCENTAGE HISTOGRAM OF LOGARITHMIC VALUES

ICELL	LOWER LIMIT	NOI	PCTI	ARITH. LIMIT
11	0.18681	01	0.01	1.53741
21	0.26711	11	0.71*	1.84981
31	0.34741	01	0.01	2.22561
41	0.42781	21	1.41*	2.67781
51	0.50811	01	0.01	3.22181
61	0.58841	41	2.81***	3.87641
71	0.66881	51	3.41***	4.66401
81	0.74911	121	8.31*****	5.61161
91	0.82941	201	13.81*****	6.75171
101	0.90971	51	3.41***	8.12351
111	0.99011	121	8.31*****	9.77401
121	1.07041	131	9.01*****	11.75981
131	1.15071	81	5.51*****	14.14911
141	1.23111	131	9.01*****	17.02391
151	1.31141	131	9.01*****	20.48271
161	1.39171	101	6.91*****	24.64431
171	1.47201	101	6.91*****	29.65141
181	1.55241	81	5.51*****	35.67591
191	1.63271	51	3.41***	42.92431
201	1.71301	31	2.11**	51.64551
211	1.79341	01	0.01	62.13861
221	1.87371	01	0.01	74.76361
231	1.95401	11	0.71*	89.95371
241	2.03431	01	0.01	108.23011

APPLE 1 CLAIM GEOCHEM - 1985

VARIABLE NAME IS: CU

CELL	LOWER LIMIT	NO	CUM PCT	APPROXIMATE CUMULATIVE PROBABILITY PLOT OF LOGARITHMIC VALUES										ARITH. LIMIT		
1	1.9341	1	0.71	*												85.88901
2	1.8941	01	0.71	*												78.30201
3	1.8541	01	0.71	*												71.38511
4	1.8131	01	0.71	*												65.07931
5	1.7731	01	0.71	*												59.33051
6	1.7331	21	2.11	*												54.08951
7	1.6931	21	3.41	*												49.31141
8	1.6531	31	5.51	*												44.95551
9	1.6131	21	6.91	*												40.98431
10	1.5721	41	9.71	*												37.36401
11	1.5321	61	13.81	*												34.06341
12	1.4921	71	18.61	*												31.05441
13	1.4521	21	20.01	*												28.31121
14	1.4121	71	24.81	*												25.81031
15	1.3721	21	26.21	*												23.53031
16	1.3311	81	30.31	*												21.45181
17	1.2911	61	35.91	*												19.55681
18	1.2511	111	43.41	*												17.82931
19	1.2111	11	44.11	*												16.25431
20	1.1711	71	49.01	*												14.81851
21	1.1311	31	51.01	*												13.50951
22	1.0901	81	56.61	*												12.31611
23	1.0501	21	57.91	*												11.22821
24	1.0101	81	63.41	*												10.23631
25	0.9701	41	66.21	*												9.33211
26	0.9301	51	69.71	*												8.50781
27	0.8901	101	76.61	*												7.75621
28	0.8491	01	76.61	*												7.07111
29	0.8091	101	83.41	*												6.44651
30	0.7691	121	91.71	*												5.87701
31	0.7291	01	91.71	*												5.35791
32	0.6891	51	95.21	*												4.88461
33	0.6491	01	95.21	*												4.45311
34	0.6091	01	95.21	*												4.05981
35	0.5681	41	97.91	*												3.70111
36	0.5281	01	97.91	*												3.37421
37	0.4881	01	97.91	*												3.07621
38	0.4481	21	99.31	*												2.80441
39	0.4081	01	99.31	*												2.55671
40	0.3681	01	99.31	*												2.33091
41	0.3271	01	99.31	*												2.12501

THRESHOLD LEVEL 50 PPM COPPER

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

APPLE 1 CLAIM GEOCHEM - 1985

VARIABLE NAME IS: CU

ICELL	LOWER LIMIT	NOICUM	PCT	APPROXIMATE CUMULATIVE PROBABILITY PLOT OF ARITHMETIC VALUES	LOG LIMIT
11	52.2331	31	2.11	*	1.71791
21	50.4981	11	2.81	*	1.70331
31	48.7621	11	3.41	*	1.68811
41	47.0271	11	4.11	*	1.67231
51	45.2921	01	4.11	*	1.65601
61	43.5561	21	5.51	*	1.63901
71	41.8211	11	6.21	*	1.62141
81	40.0851	11	6.91	*	1.60301
91	38.3501	11	7.61	*	1.58381
101	36.6151	61	11.71	*	1.56371
111	34.8791	31	13.81	*	1.54261
121	33.1441	21	15.21	*	1.52041
131	31.4081	51	18.61	*	1.49701
141	29.6731	01	18.61	*	1.47241
151	27.9381	61	22.81	*	1.44621
161	26.2021	11	23.41	*	1.41831
171	24.4671	31	25.51	*	1.38861
181	22.7311	21	26.91	*	1.35661
191	20.9961	111	34.51	*	1.32211
201	19.2611	21	35.91	*	1.28471
211	17.5251	111	43.41	*	1.24371
221	15.7901	51	46.91	*	1.19841
231	14.0541	31	49.01	*	1.14781
241	12.3191	111	56.61	*	1.09061
251	10.5841	101	63.41	*	1.02461
261	8.8481	91	69.71	*	0.94691
271	7.1131	101	76.61	*	0.85201
281	5.3771	221	91.71	*	0.73061
291	3.6421	91	97.91	*	0.56141
301	1.9071	31	100.01	*	0.28031
311	0.1711	01	100.01	*	-0.76621
321	-1.5641	01	100.01	*	*****
331	-3.2991	01	100.01	*	*****
341	-5.0351	01	100.01	*	*****
351	-6.7701	01	100.01	*	*****
361	-8.5061	01	100.01	*	*****
371	-10.2411	01	100.01	*	*****
381	-11.9761	01	100.01	*	*****
391	-13.7121	01	100.01	*	*****
401	-15.4471	01	100.01	*	*****
411	-17.1831	01	100.01	*	*****

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

APPLE 1 CLAIM GEOLCHEM - 1985

VARIABLE NAME IS: MC NUMBER OF VALUES IS 145
 CALCULATED PARAMETERS: MEAN = 2.6821 STD.DEV. = 3.8017 VARIANCE = 14.4681

PERCENTAGE HISTOGRAM OF ARITHMETIC VALUES

ICELLFLOWER LIMITI	NOI	PCTI	LOG LIMITI
11	-8.72831	01	0.01
21	-7.77741	01	0.01
31	-6.82651	01	0.01
41	-5.87561	01	0.01
51	-4.92471	01	0.01
61	-3.97381	01	0.01
71	-3.02291	01	0.01
81	-2.07201	01	0.01
91	-1.12111	01	0.01
101	-0.17021	01	0.01
111	0.78091	01	55.21*****
121	1.73101	241	10.01*****
131	2.68211	171	11.71*****
141	3.63321	01	5.51*****
151	4.58431	11	0.71*
161	5.53541	21	1.41*
171	6.48651	41	2.81**
181	7.43761	21	1.41*
191	8.38871	11	0.71*
201	9.33981	01	0.01
211	10.29091	21	1.41*
221	11.24201	01	0.01
231	12.19311	01	0.01
241	13.14421	11	0.71*

LOG VALUES: MEAN = 0.2477 STD.DEV. = 0.3369 VARIANCE = 0.1135

PERCENTAGE HISTOGRAM OF LOGARITHMIC VALUES

ICELLFLOWER LIMITI	NOI	PCTI	ARITH. LIMITI
11	-0.70291	01	0.17301
21	-0.67871	01	0.20901
31	-0.59551	01	0.25441
41	-0.51031	01	0.30981
51	-0.42601	01	0.37491
61	-0.34181	01	0.45521
71	-0.25761	01	0.55261
81	-0.17341	01	0.67081
91	-0.08921	01	0.81441
101	0.00501	01	0.98971
111	0.07931	01	1.20021
121	0.16351	01	1.45711
131	0.24771	241	1.76991
141	0.33191	01	2.14741
151	0.41611	171	2.60701
161	0.50041	01	3.16491
171	0.58461	81	3.84221
181	0.66881	11	4.66441
191	0.75301	21	5.66261
201	0.83721	61	6.97441
211	0.92151	11	8.34551
221	1.00571	21	10.13141
231	1.08991	11	12.29951
241	1.17411	01	14.93101

231 1.08991 11 0.71*
 241 1.17411 01 0.01

10.13141
 12.29951
 14.93161

APPLE 1 CLAIM GEDCHEM - 1985

VARIABLE NAME IS: MO

ICELL	LOWER LIMIT	NOICUMPT	APPROXIMATE CUMULATIVE PROBABILITY PLOT OF LOGARITHMIC VALUES	ARITH. LIMIT
11	1.0891	41	2.81 -	11.71751
21	1.0271	21	4.11 -	10.63471
31	0.9851	01	4.11 -	9.65201
41	0.9431	11	4.81 -	8.76001
51	0.9001	21	6.21 -	7.95061
61	0.8581	01	6.21 -	7.21591
71	0.8161	41	9.01 -	6.54911
81	0.7741	21	10.31 -	5.94391
91	0.7321	01	10.31 -	5.39461
101	0.6901	11	11.01 -	4.89611
111	0.6481	01	11.01 -	4.44371
121	0.6061	01	11.01 -	4.03301
131	0.5641	81	16.61 -	3.66031
141	0.5211	01	16.61 -	3.32211
151	0.4791	01	16.61 -	3.01511
161	0.4371	171	28.31 -	2.73651
171	0.3951	01	28.31 -	2.48361
181	0.3531	01	28.31 -	2.25411
191	0.3111	01	28.31 -	2.04581
201	0.2691	241	44.81 -	1.85681
211	0.2271	01	44.81 -	1.68521
221	0.1851	01	44.81 -	1.52951
231	0.1421	01	44.81 -	1.38811
241	0.1001	01	44.81 -	1.25981
251	0.0581	01	44.81 -	1.14341
261	0.0161	01	44.81 -	1.03781
271	-0.0261	801	100.01 -	0.94191
281	-0.0681	01	100.01 -	0.85481
291	-0.1101	01	100.01 -	0.77581
301	-0.1521	01	100.01 -	0.70411
311	-0.1941	01	100.01 -	0.63911
321	-0.2371	01	100.01 -	0.58001
331	-0.2791	01	100.01 -	0.52641
341	-0.3211	01	100.01 -	0.47781
351	-0.3631	01	100.01 -	0.43361
361	-0.4051	01	100.01 -	0.39361
371	-0.4471	01	100.01 -	0.35721
381	-0.4891	01	100.01 -	0.32421
391	-0.5311	01	100.01 -	0.29421
401	-0.5731	01	100.01 -	0.26701
411	-0.6161	01	100.01 -	0.24241

THRESHOLD LEVEL 7 PPM MOLY

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

APPLE 1 CLAIM GEOCHEM - 1985

VARIABLE NAME IS: MD

ICELL	LOWER LIMIT	NOICUMPT	APPROXIMATE CUMULATIVE PROBABILITY PLOT OF ARITHMETIC VALUES										LOG LIMIT									
11	11.9541	41	2.81	-	*																	1.07751
21	11.4791	01	2.81	-	*																	1.05991
31	11.0031	01	2.81	-	*																	1.04151
41	10.5281	21	4.11	-	*																	1.02231
51	10.0521	01	4.11	-	*																	1.00231
61	9.5771	01	4.11	-	*																	0.98121
71	9.1011	01	4.11	-	*																	0.95911
81	8.6261	11	4.81	-	*																	0.93581
91	8.1511	01	4.81	-	*																	0.91121
101	7.6751	21	6.21	-	*	*																0.88511
111	7.2001	01	6.21	-	*	*																0.85731
121	6.7241	41	9.01	-	*	*																0.82761
131	6.2491	01	9.01	-	*	*																0.79581
141	5.7731	21	10.31	-	*	*																0.76141
151	5.2981	01	10.31	-	*	*																0.72411
161	4.8221	11	11.01	-	*	*																0.68331
171	4.3471	01	11.01	-	*	*																0.63821
181	3.8711	81	16.61	-	*	*	*															0.58791
191	3.3961	01	16.61	-	*	*	*															0.53101
201	2.9201	171	28.31	-	*	*	*	*														0.46551
211	2.4451	01	28.31	-	*	*	*	*														0.38831
221	1.9701	241	44.81	-	*	*	*	*	*													0.29441
231	1.4941	01	44.81	-	*	*	*	*	*													0.17661
241	1.0191	01	44.81	-	*	*	*	*	*													0.00801
251	0.5431	801	100.01	-	*	*	*	*	*	*											*	-0.26511
261	0.0681	01	100.01	-	*	*	*	*	*	*											*	-1.16931
271	-0.4081	01	100.01	-	*	*	*	*	*	*											*	*****
281	-0.8831	01	100.01	-	*	*	*	*	*	*											*	*****
291	-1.3591	01	100.01	-	*	*	*	*	*	*											*	*****
301	-1.8341	01	100.01	-	*	*	*	*	*	*											*	*****
311	-2.3101	01	100.01	-	*	*	*	*	*	*											*	*****
321	-2.7851	01	100.01	-	*	*	*	*	*	*											*	*****
331	-3.2611	01	100.01	-	*	*	*	*	*	*											*	*****
341	-3.7361	01	100.01	-	*	*	*	*	*	*											*	*****
351	-4.2111	01	100.01	-	*	*	*	*	*	*											*	*****
361	-4.6871	01	100.01	-	*	*	*	*	*	*											*	*****
371	-5.1621	01	100.01	-	*	*	*	*	*	*											*	*****
381	-5.6381	01	100.01	-	*	*	*	*	*	*											*	*****
391	-6.1131	01	100.01	-	*	*	*	*	*	*											*	*****
401	-6.5891	01	100.01	-	*	*	*	*	*	*											*	*****
411	-7.0641	01	100.01	-	*	*	*	*	*	*											*	*****

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

APPLE 1 CLAIM GEOCHEM - 1985

VARIABLE NAME IS: PD
 CALCULATED PARAMETERS: MEAN = 7.6897 STD.DEV. = 8.0644 VARIANCE = 65.0350

PERCENTAGE HISTOGRAM OF ARITHMETIC VALUES

ICELLFLOWER LIMITI	NOI	PCTI	LOG LIMITI
11	-16.50371	01	0.01
21	-14.48761	01	0.01
31	-12.47151	01	0.01
41	-10.45541	01	0.01
51	-8.43921	01	0.01
61	-6.42311	01	0.01
71	-4.40701	01	0.01
81	-2.39091	01	0.01
91	-0.37481	01	0.01
101	1.64131	431	29.71*****
111	3.65741	161	11.01*****
121	5.67351	251	17.21*****
131	7.68961	181	12.41*****
141	9.70571	191	13.11*****
151	11.72181	101	6.91*****
161	13.73791	31	2.11**
171	15.75401	71	4.61*****
181	17.77011	11	0.71*
191	19.78621	01	0.01
201	21.80241	21	1.41*
211	23.81851	01	0.01
221	25.83461	01	0.01
231	27.85071	01	0.01
241	29.86681	01	0.01

LOG VALUES: MEAN = 0.7637 STD.DEV. = 0.3204 VARIANCE = 0.1026

PERCENTAGE HISTOGRAM OF LOGARITHMIC VALUES

ICELLFLOWER LIMITI	NOI	PCTI	ARITH. LIMITI
11	-0.19741	01	0.01
21	-0.11731	01	0.01
31	-0.03721	01	0.01
41	0.04281	01	0.01
51	0.12291	01	0.01
61	0.20301	01	0.01
71	0.28311	301	20.71*****
81	0.36321	01	0.01
91	0.44331	131	9.01*****
101	0.52341	61	4.11****
111	0.60351	01	0.01
121	0.68361	101	6.91*****
131	0.76371	151	10.31*****
141	0.84381	211	14.51*****
151	0.92391	191	13.11*****
161	1.00391	121	8.31*****
171	1.08401	61	4.11****
181	1.16411	91	6.21*****
191	1.24421	11	0.71*
201	1.32431	21	1.41*
211	1.40441	01	0.01
221	1.48451	01	0.01
231	1.56461	01	0.01
241	1.64471	01	0.01

APPLE 1 CLAIM GEOCHEM - 1985

VARIABLE NAME IS: PB

ICELL	LOWER LIMIT	NO	CUMPT	APPROXIMATE CUMULATIVE PROBABILITY PLOT OF ARITHMETIC VALUES										LOG LIMIT				
1	27.3471	11	0.71	*														1.43691
2	26.3391	01	0.71	*														1.42061
3	25.3311	01	0.71	*														1.40361
4	24.3231	01	0.71	*														1.38601
5	23.3141	01	0.71	*														1.36761
6	22.3061	11	1.41	*														1.34841
7	21.2981	11	2.11	*														1.32831
8	20.2901	01	2.11	*														1.30731
9	19.2821	01	2.11	*														1.28521
10	18.2741	01	2.11	*														1.26181
11	17.2661	11	2.81	*														1.23721
12	16.2581	31	4.81	*														1.21111
13	15.2501	41	7.61	*														1.18331
14	14.2421	21	9.01	*														1.15361
15	13.2341	11	9.71	*														1.12171
16	12.2261	51	13.11	*														1.08731
17	11.2181	51	16.61	*														1.04991
18	10.2101	71	21.41	*														1.00901
19	9.2021	121	29.71	*														0.96391
20	8.1941	71	34.51	*														0.91351
21	7.1861	111	42.11	*														0.85651
22	6.1781	101	49.01	*														0.79081
23	5.1691	151	59.31	*														0.71361
24	4.1611	101	66.21	*														0.61921
25	3.1531	61	70.31	*														0.49881
26	2.1451	131	79.31	*														0.33151
27	1.1371	301	100.01	*														0.05591
28	0.1291	01	100.01	*														-0.88871
29	-0.8791	01	100.01	*														*****
30	-1.8871	01	100.01	*														*****
31	-2.8951	01	100.01	*														*****
32	-3.9031	01	100.01	*														*****
33	-4.9111	01	100.01	*														*****
34	-5.9191	01	100.01	*														*****
35	-6.9271	01	100.01	*														*****
36	-7.9351	01	100.01	*														*****
37	-8.9431	01	100.01	*														*****
38	-9.9511	01	100.01	*														*****
39	-10.9591	01	100.01	*														*****
40	-11.9671	01	100.01	*														*****
41	-12.9751	01	100.01	*														*****

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

APPLE 1 CLAIM GEOCHEM - 1985

VARIABLE NAME IS: ZN
 CALCULATED PARAMETERS: MEAN = 21.9586 STD.DEV. = 24.2177 VARIANCE = 586.4985
 NUMBER OF VALUES IS 145

PERCENTAGE HISTOGRAM OF ARITHMETIC VALUES

ICELL	LOWER LIMIT	NOI	PCTI	LOG LIMIT
11	-50.69471	01	0.01	*****
21	-44.64021	01	0.01	*****
31	-38.58581	01	0.01	*****
41	-32.53141	01	0.01	*****
51	-26.47701	01	0.01	*****
61	-20.42251	01	0.01	*****
71	-14.36811	01	0.01	*****
81	-8.31371	01	0.01	*****
91	-2.25921	71	4.81****	*****
101	3.79521	281	19.31*****	0.57921
111	9.84961	291	20.01*****	0.99341
121	15.90401	241	16.61*****	1.20151
131	21.95851	221	15.21*****	1.34161
141	28.01291	131	9.01*****	1.44741
151	34.06741	91	6.21*****	1.53231
161	40.12181	71	4.81****	1.60741
171	46.17631	21	1.41*	1.66441
181	52.23071	01	0.01	1.71791
191	58.28511	11	0.71*	1.76561
201	64.33961	01	0.01	1.80851
211	70.39401	01	0.01	1.84751
221	76.44851	01	0.01	1.88341
231	82.50291	01	0.01	1.91651
241	88.55741	11	0.71*	1.94721

LOG VALUES: MEAN = 1.1951 STD.DEV. = 0.3588 VARIANCE = 0.1288

PERCENTAGE HISTOGRAM OF LOGARITHMIC VALUES

ICELL	LOWER LIMIT	NOI	PCTI	ARITH. LIMIT
11	0.11861	01	0.01	1.31411
21	0.20831	01	0.01	1.41561
31	0.29801	31	2.11**	1.98621
41	0.38771	41	2.81**	2.44201
51	0.47741	01	0.01	3.00221
61	0.56721	51	3.41**	3.69111
71	0.65691	31	2.11**	4.53791
81	0.74661	91	6.21*****	5.57911
91	0.83631	81	5.51*****	6.85921
101	0.92601	91	6.21*****	8.43291
111	1.01571	111	7.61*****	10.36781
121	1.10541	121	8.31*****	12.74661
131	1.19511	221	15.21*****	15.67111
141	1.28481	101	6.91*****	19.26671
151	1.37451	161	11.01*****	23.68731
161	1.46421	131	9.01*****	29.12211
171	1.55391	101	6.91*****	35.80381
181	1.64361	61	4.11****	44.01871
191	1.73331	11	0.71*	54.11931
201	1.82311	01	0.01	66.53531
211	1.91281	11	0.71*	81.20111
221	2.00251	01	0.01	100.56951
231	2.09221	01	0.01	123.64431
241	2.18191	11	0.71*	152.01331

PLL 199(2)

APPLE 1 PLL 197(2)

COURTNEY LAKE

TN

APPLE 2 (18 UNITS)
1705

PLL 197 (2)

APPLE 4 (18 UNITS)
1707

PL 291

APPLE # 3 (9 UNITS)
1706

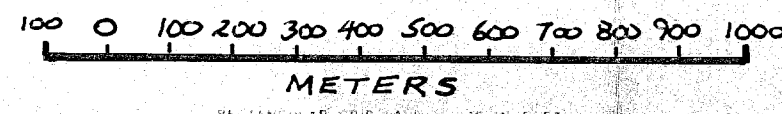
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

13,730

Utah Mines Ltd.
ISLAND COPPER MINE
Port Hardy, B.C.

Drawn by	<u>APPLE 1 CLAIM</u>	Date	JULY 5/85
Traced by	<u>LOCATION MAP</u>	Scale	1:12000
Approved by	<i>JF</i>	Revision	
Bench Elev.	ON GEOCHEM. SURVEY	Drg. No.	2

QUATSINO TREE FARM LICENCE 6
VANCOUVER ISLAND B.C.



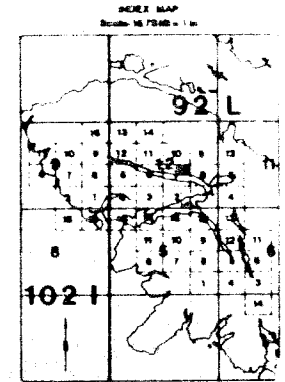
LEGEND

.....	1/4" Boundary	—	Stream
.....	Compartiment Boundary	—	Water
.....	Top Boundary	—	Water Channel
.....	Water Boundary	—	Wharf
.....	30' Class Contour	—	Power
.....	40' Class Contour	—	Power Production
.....	50' Class Contour	—	Non-Setback Boundary
.....	Public Property Boundary	—	Control
.....	Jan's Point Boundary (Proposed)	—	Access
.....	Power Production Line	—	Log
.....	Power Production Line (Proposed)	—	Log
.....	Residential Area	—	Log
.....	Black & White (Proposed)	—	Log
.....	Proposed	—	Log

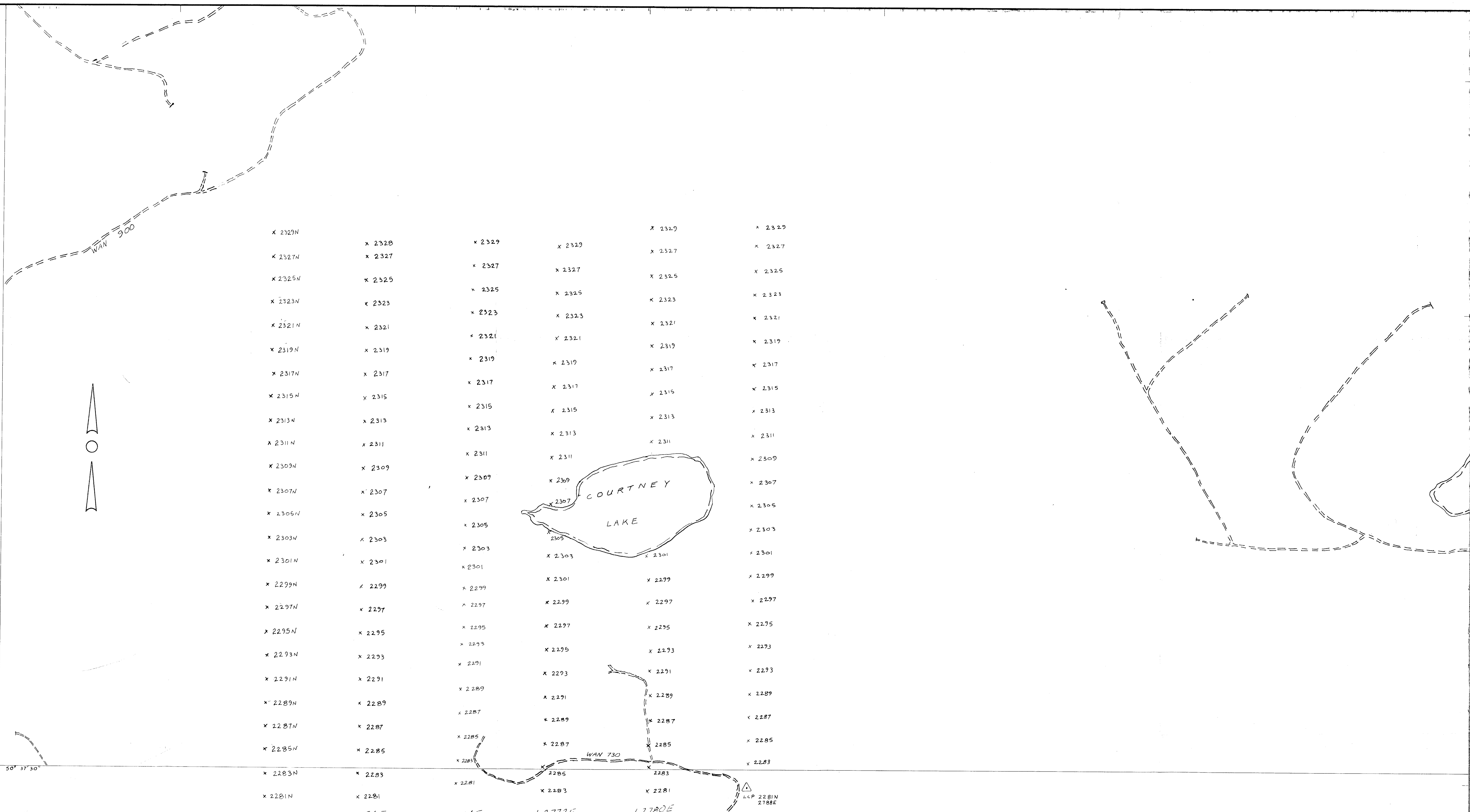
INVENTORY SURVEY

.....	1/4" Boundary	.....	1/4" Boundary
.....	Compartiment Boundary	.....	Compartiment Boundary
.....	Top Boundary	.....	Top Boundary
.....	Water Boundary	.....	Water Boundary
.....	30' Class Contour	.....	30' Class Contour
.....	40' Class Contour	.....	40' Class Contour
.....	50' Class Contour	.....	50' Class Contour
.....	Public Property Boundary	.....	Public Property Boundary
.....	Jan's Point Boundary (Proposed)	.....	Jan's Point Boundary (Proposed)
.....	Power Production Line	.....	Power Production Line
.....	Power Production Line (Proposed)	.....	Power Production Line (Proposed)
.....	Residential Area	.....	Residential Area
.....	Black & White (Proposed)	.....	Black & White (Proposed)
.....	Proposed	.....	Proposed

.....	1/4" Boundary
.....	Compartiment Boundary
.....	Top Boundary
.....	Water Boundary
.....	30' Class Contour
.....	40' Class Contour
.....	50' Class Contour
.....	Public Property Boundary
.....	Jan's Point Boundary (Proposed)
.....	Power Production Line
.....	Power Production Line (Proposed)
.....	Residential Area
.....	Black & White (Proposed)
.....	Proposed

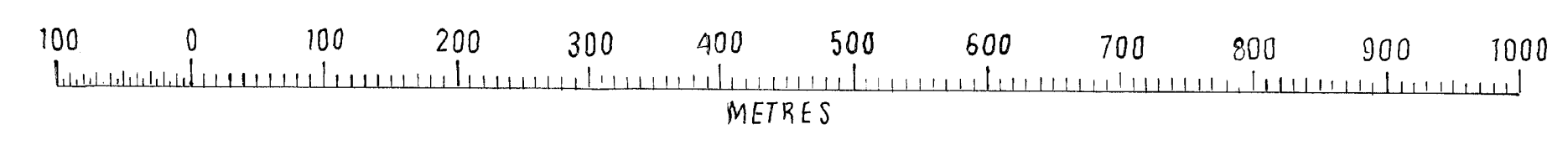


H O L B E R G I N L E T



X 2329N	X 2328	X 2329	X 2329	X 2329	X 2329
X 2327N	X 2327	X 2327	X 2327	X 2327	X 2327
X 2325N	X 2325	X 2325	X 2325	X 2325	X 2325
X 2323N	X 2323	X 2323	X 2323	X 2323	X 2323
X 2321N	X 2321	X 2321	X 2321	X 2321	X 2321
X 2319N	X 2319	X 2319	X 2319	X 2319	X 2319
X 2317N	X 2317	X 2317	X 2317	X 2317	X 2317
X 2315N	X 2315	X 2315	X 2315	X 2315	X 2315
X 2313N	X 2313	X 2313	X 2313	X 2313	X 2313
X 2311N	X 2311	X 2311	X 2311	X 2311	X 2311
X 2309N	X 2309	X 2309	X 2309	X 2309	X 2309
X 2307N	X 2307	X 2307	X 2307	X 2307	X 2307
X 2305N	X 2305	X 2305	X 2305	X 2305	X 2305
X 2303N	X 2303	X 2303	X 2303	X 2303	X 2303
X 2301N	X 2301	X 2301	X 2301	X 2301	X 2301
X 2299N	X 2299	X 2299	X 2299	X 2299	X 2299
X 2297N	X 2297	X 2297	X 2297	X 2297	X 2297
X 2295N	X 2295	X 2295	X 2295	X 2295	X 2295
X 2293N	X 2293	X 2293	X 2293	X 2293	X 2293
X 2291N	X 2291	X 2291	X 2291	X 2291	X 2291
X 2289N	X 2289	X 2289	X 2289	X 2289	X 2289
X 2287N	X 2287	X 2287	X 2287	X 2287	X 2287
X 2285N	X 2285	X 2285	X 2285	X 2285	X 2285
X 2283N	X 2283	X 2283	X 2283	X 2283	X 2283
X 2281N	X 2281	X 2281	X 2281	X 2281	X 2281

L2748E L2756E L2764E L2772E L2780E

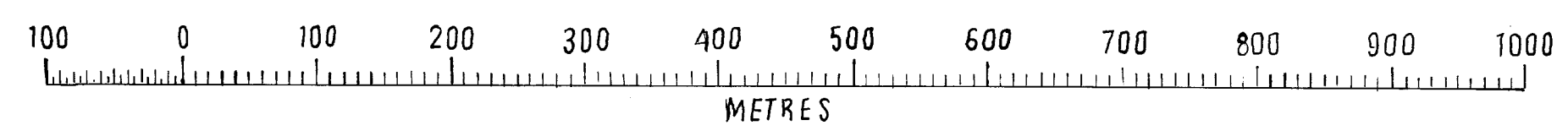
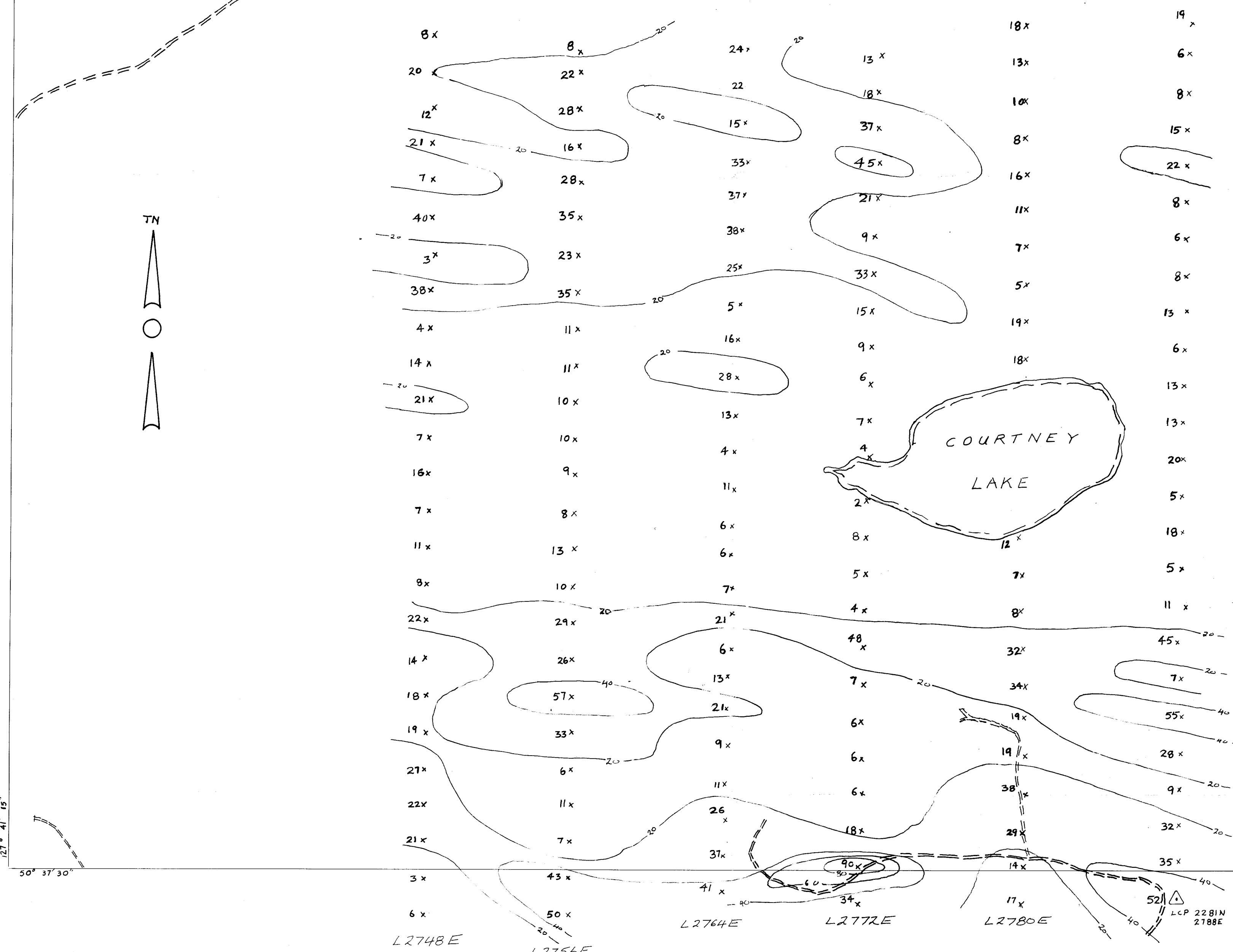


**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

13,730

Utah Mines Ltd.
ISLAND COPPER MINE
Port Hardy, B.C.

Drawn by AK	APPLE # 1: SOIL GEOCHEM. POSTINGS	Date JUNE 85
Traced by		Scale 1" = 400'
Approved by J.F.		Revision
Bench Elev.		Dwg. No. 3

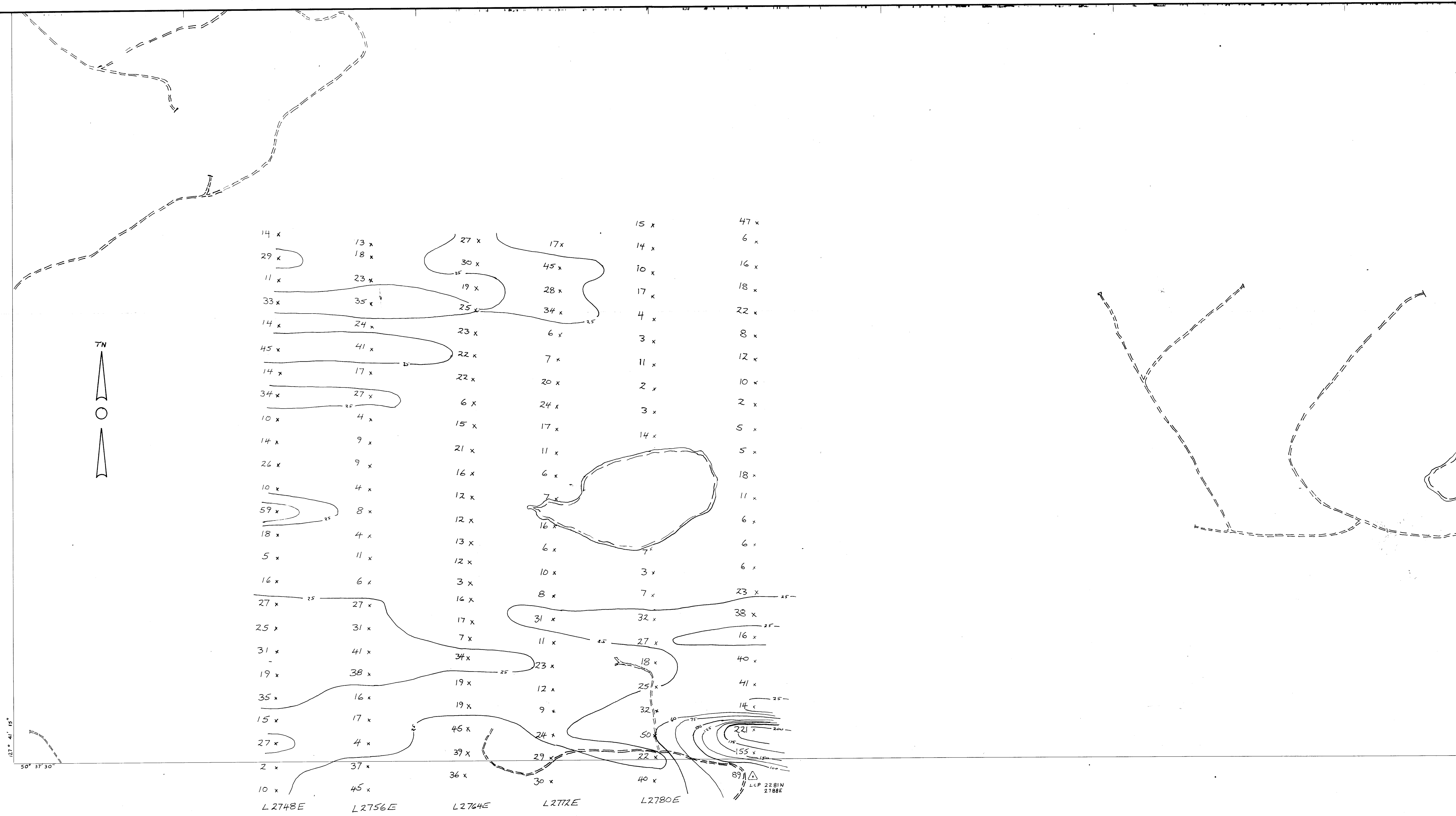


GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,730

Utah Mines Ltd. ISLAND COPPER MINE Port Hardy, B.C.		
Drawn by AK	APPLE #1 SOIL GEOCHEM: COPPER	Date JUNE 85
Traced by		Scale 1" = 400'
Approved by J.F.	CONTOUR INTERVAL: 20 PPM	Revision
Bench Elev.		Dwg. No. 4

NO. 1000 U.M.L.

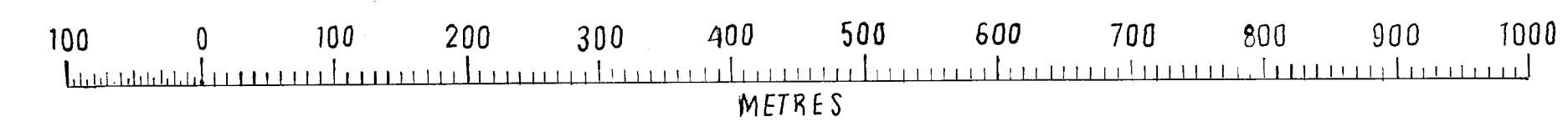


127° 41' 15"
50° 37' 30"

14 x 13 x 27 x 17 x 15 x 47 x
 29 x 18 x 30 x 45 x 14 x 6 x
 11 x 23 x 19 x 28 x 10 x 16 x
 33 x 35 x 25 x 34 x 17 x 18 x
 14 x 24 x 23 x 6 x 4 x 22 x
 45 x 41 x 22 x 7 x 3 x 8 x
 14 x 17 x 22 x 20 x 11 x 12 x
 34 x 27 x 6 x 24 x 2 x 10 x
 10 x 4 x 15 x 17 x 3 x 2 x
 14 x 9 x 21 x 11 x 14 x 5 x
 24 x 9 x 16 x 6 x 5 x 18 x
 10 x 4 x 12 x 7 x 11 x 11 x
 59 x 8 x 12 x 16 x 6 x 6 x
 18 x 4 x 13 x 6 x 10 x 6 x
 5 x 11 x 12 x 10 x 3 x 6 x
 16 x 6 x 3 x 8 x 7 x 23 x
 27 x 27 x 16 x 31 x 32 x 38 x
 25 x 31 x 7 x 11 x 27 x 16 x
 31 x 41 x 34 x 23 x 18 x 40 x
 19 x 38 x 19 x 12 x 25 x 41 x
 35 x 16 x 19 x 9 x 32 x 14 x
 15 x 17 x 45 x 24 x 50 x 221 x
 27 x 4 x 39 x 29 x 22 x 155 x
 2 x 37 x 36 x 30 x 40 x 87 x
 10 x 45 x 30 x 40 x

L2748E L2756E L2764E L2772E L2780E

87 LCP 2281N 2788E



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

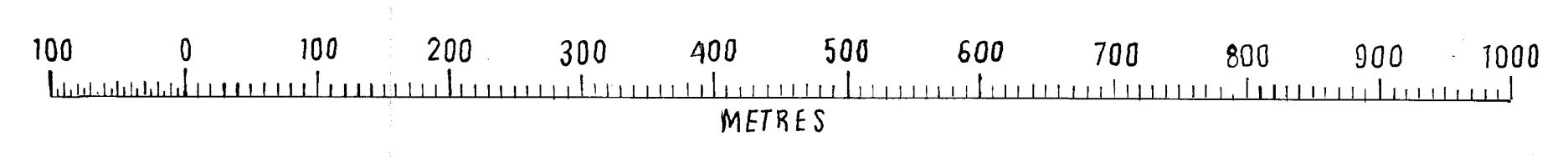
13,730

Utah Mines Ltd. ISLAND COPPER MINE Port Hardy, B.C.		
Drawn by	APPLE #1	Date JUNE '85
Traced by	A.K. SOIL GEOCHEM: ZINC	Scale 1" = 400'
Approved by	JF	Revision
Bench Elev.	CONTOUR INTERVAL: 25PPM	Dwg. No. 7



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

13,730



Utah Mines Ltd. ISLAND COPPER MINE Port Hardy, B.C.		
Drawn by	APPLE #1 SOIL GEOCHEM: LEAD CONTOUR INTERVAL: 10 PPM	Date
Traced by		JUNE 85
Approved by		Scale
Bench Elev.		1" = 400'
		Revision
		Dr. No.
		6