

UTAH MINES LTD.
ISLAND COPPER MINE

GEOPHYSICAL SURVEYS - APPLE CLAIMS

(FAME REPORT)

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

G.A. Clarke

February 23, 1987

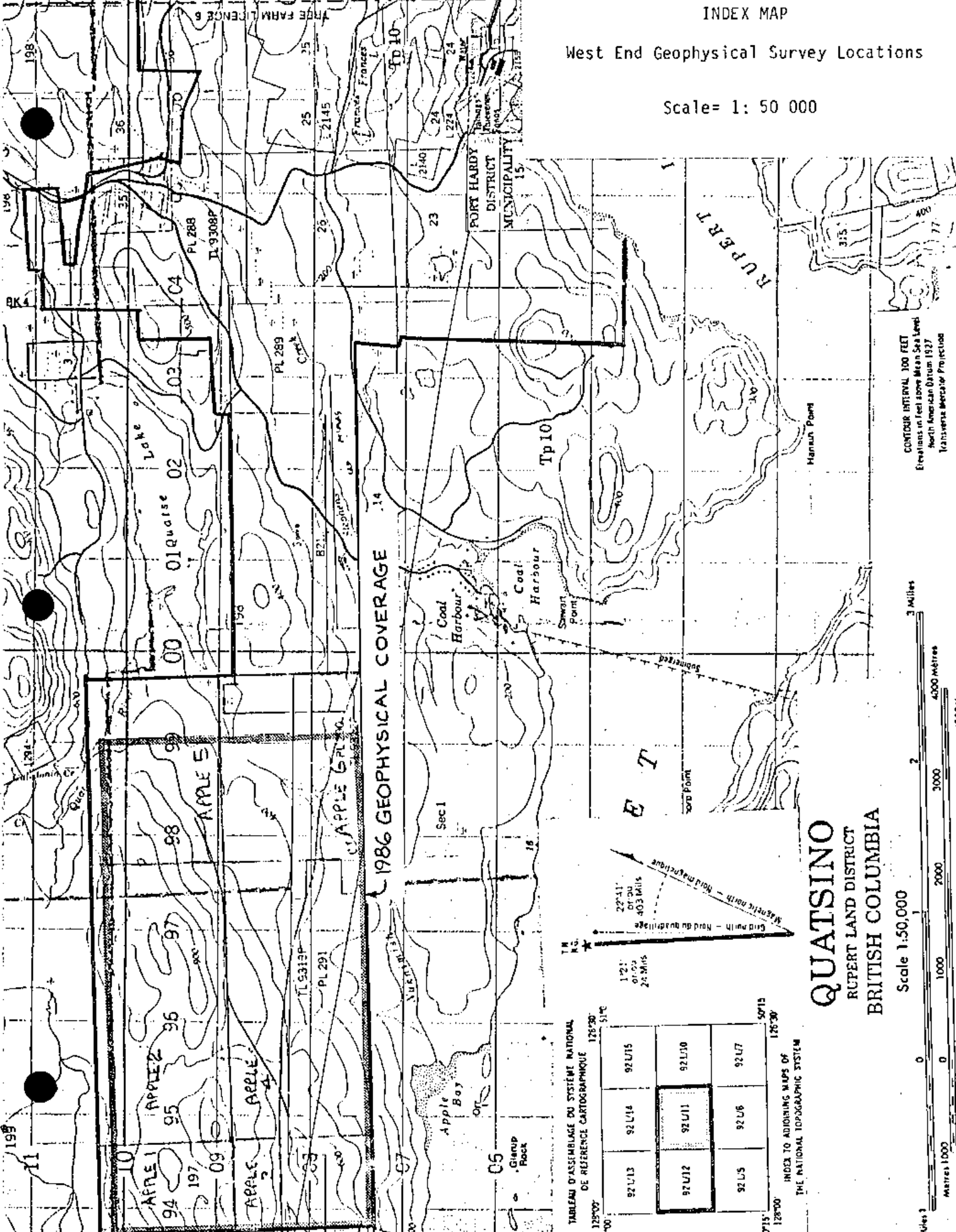
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PART 40FG

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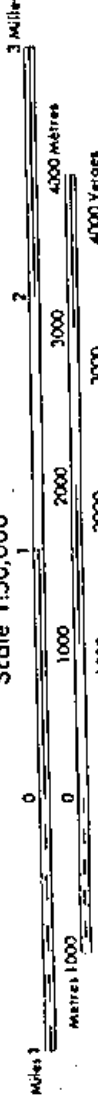
1986 GEOPHYSICAL COVERAGE

TABLEAU D'ASSEMBLAGE DU SYSTEME NATIONAL DE REFERENCE CARTOGRAPHIQUE

92 L 13	92 L 14	92 L 15
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92 L 5	92 L 6	92 L 7

QUATSINO
RUPERT LAND DISTRICT
BRITISH COLUMBIA

Scale 1:50,000



CONTOUR INTERVAL 100 FEET
Elevations in feet above Mean Sea Level
North American Datum 1927
Transverse Mercator Projection

INTRODUCTION

Between December 16 and December 31/86, ground magnetometer and VLF surveys were carried out on portions of the Apple group of claims 5 km. west of the Island Copper Mine. This work was a follow-up to traverses made along roads in the area in 1984 (assessment report #85-404b-14170) and was designed to better delineate anomalous areas while identified at that time. A total of 18.3 km. of magnetic data was collected, but instrument problems limited VLF coverage to 12.6 km.

A two person crew was employed to compass, chain and flag lines at 250 m. intervals on selected portions of the Apple 3, 4, 5 and 6 claims and simultaneously to perform combined magnetometer and VLF surveys on the lines. The grids so surveyed are identified as grids A, B and C on the accompanying Map 1. The instrumentation employed on areas A and C consisted of a Scintrex IGS-2 magnetometer and VLF meter while a Scintrex MP-3 magnetometer was employed as a base station. On area B, the IGS-2 malfunctioned, so the MP-3 was employed as a field unit and diurnal corrections were performed utilizing a series of loops.

Access to the claims is by 2-wheel drive vehicle on paved road to Port Hardy (16 km) and along gravel logging roads. Relief is moderate on the claims with elevations ranging from about 70 to 300 m.

The area is underlain by rocks of the Bonanza formation, generally andesitic in composition and fragmental or tuffaceous in texture. Minimal sulphides are present at surface and surface alterations are limited to local strong silicification and minor epidote. Muller, Northcote and Carlisle (GSC paper 74-8) indicate the presence of granodioritic Wanokana intrusives along the northern boundary of the APPLE #2 claim, but these have not been identified by the author.

RESULTS

Magnetic anomalies corresponding to Anomalies 84-A2 and 84-A3 from Assessment report 8504-4b-14170 have been delineated by this survey. These lie on grids B and C, respectively, and are numbered M3, (corresponding to 84-A2) and M1 and M2 (corresponding to 84-A3) on Map 1. Accompanying anomalies M1 and M2 are moderate VLF anomalies. No other significant anomalies are present in either the VLF or magnetic data.

Anomaly M1

This East-northeast trending feature cuts across lines 2748E to 2772E and extends westward off the claims as shown by the line 2740E data. The maximum peak-to-trough amplitude of the anomaly is 2200 nT and it shows a consistent width of roughly 300 metres. A weak VLF anomaly coincides roughly with the southern limit of this anomaly. The magnetic anomaly also coincides with the south-facing slope of a 100 metre high ridge.

The volcanic rocks underlying this anomaly are not significantly different from the surrounding area, consisting primarily of pyroclastics and flows with minimal alterations. The magnetic anomaly is felt to

represent alteration indicative of an intrusive at moderate depth (100-150 metres). Because of its location within a valley, the VLF anomaly can reasonably be interpreted as a fault zone. The low amplitude of the VLF anomaly does not warrant further investigation whereas the magnetic anomaly offers potential for porphyry copper type mineralization. A 500 foot hole located approximately at line 2756E, 2769N is recommended.

Anomaly M2

This erratic, low amplitude (600 nT) anomaly on lines 2772E and 2780E is accompanied by moderate VLF anomalies on lines 2772E and 2788E, with a possible anomaly on line 2780E. This corresponds with an area of silicification and quartz filled shear zones noted in outcrop. Although the magnetic anomaly appears too small and low-amplitude to represent a major geological event, the proximity to Anomaly M1 and the alteration and VLF anomalies offer some encouragement for future work. At this time a detailed rock geochem sampling program is recommended for the Apple 3 claim to further investigate the ground's potential.

Anomaly M3

This low amplitude (500-800 nT) feature cuts across Grid B on lines 2821E-2837E. Time constraints prevented closing off the anomaly to the west, and instrument problems prevented simultaneous collection of VLF data.

The volcanics in this area consist of weakly altered pyroclastic breccias and some fine layered sediments or tuffs. The lack of significant alterations combined with the low amplitude magnetic anomaly indicate a lack of economic potential for this zone. The larger anomaly amplitude on line 2837E (1200 nT) does not have adequate size (i.e., tonnage) potential, to provide an economic target. Further work on grid B is not recommended.

STATEMENT OF COSTS

	<u>Direct Cost</u>	<u>Internal Costs</u>
Labour: 24 man-days @ 124.17 (avg. cost)	\$2,980.08	\$ -
Vehicle Rental: 2 weeks @ \$428/month		214.00
Equipment Rental: 15 days @ \$125/day		1,875.00
Equipment Shipping:	100.00	
Data Processing and Reporting: 1½ days @ \$150/day	<u> </u>	<u>225.00</u>
	\$3,080.08	\$2,314.00
Total Cost:		\$5,394.08 =====
Applied for FAME grant *		<u>\$3,080.08</u>

Note: Salary cost of full time staff and rental of Utah owned equipment are not applied to FAME grant.

STATEMENT OF QUALIFICATIONS

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

G.A. Clarke - Geologist for Utah Mines Ltd., Port Hardy, B.C.

Completed B.Sc. (honors), (Geophysics) at University of Manitoba, in 1976; employed by Hudson Bay Oil & Gas, and Saskatchewan Dept. of Mineral Resources during the 1975 and 1976 summer field seasons as geophysical assistant; September, 1976 to February, 1977, Inco Limited, as a geologist in Thompson, Manitoba; Lloyd Geophysics, February, 1977 to May, 1979, as a geophysicist; Utah Mines Ltd., from October, 1979 to present, as geologist/geophysicist, presently under supervision of John A. Fleming.


G.A. Clarke

Date: February 23/87.

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1986 GROUND GEOPHYSICS SURVEY
APPLE CLAIMS

----- LINE#2746.E -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
2263N	57368	23.0	-3.0	39.2
2264N	57133	32.0	-2.0	39.1
2265N	56720	38.0	-2.0	41.6
2266N	56297	26.0	0.0	46.1
2267N	56307	35.0	-1.0	38.6
2268N	56207	17.0	-1.0	49.2
2269N	56031	12.0	-3.0	46.0
2270N	56031	9.0	-6.0	45.5
2271N	55976	5.0	-3.0	45.7
2272N	56085	7.0	-2.0	44.6
2273N	56075	10.0	0.0	46.1
2274N	56118	9.0	2.0	43.3
2275N	56201	4.0	1.0	45.1
2276N	56435	1.0	2.0	40.2
2277N	56082	16.0	7.0	39.1
2278N	56095	4.0	6.0	41.6

----- LINE#2748.E -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
2228N	56258	17.0	11.0	62.9
2229N	56365	16.0	9.0	63.5
2230N	56370	8.0	6.0	63.5
2231N	56298	8.0	2.0	64.4
2232N	56367	10.0	1.0	64.0
2233N	56361	10.0	1.0	62.9
2234N	56362	17.0	2.0	62.1
2235N	56369	21.0	0.0	62.7
2236N	56407	17.0	0.0	69.3
2237N	56421	12.0	-2.0	69.8
2238N	56418	14.0	0.0	70.0
2239N	56386	22.0	0.0	71.0
2240N	56424	35.0	0.0	57.2
2241N	57018	11.0	0.0	75.9
2242N	57539	6.0	0.0	73.8
2243N	56460	15.0	2.0	73.2
2244N	57499	11.0	0.0	73.1
2244N	56380	14.0	1.0	73.0
2245N	56409	6.0	0.0	69.7
2246N	56352	10.0	0.0	74.7
2247N	56384	7.0	0.0	75.7
2248N	56395	3.0	0.0	74.3

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----- LINE=1748.E -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
2249N	56410	-9.0	-4.0	66.9
2250N	56439	-4.0	-4.0	71.9
2251N	56453	6.0	3.0	61.5
2252N	56406	4.0	0.0	64.6
2253N	56372	2.0	0.0	63.1
2254N	56315	2.0	-3.0	62.7
2255N	56362	3.0	0.0	62.5
2256N	56238	4.0	0.0	61.1
2257N	56146	18.0	3.0	63.2
2258N	56527	12.0	4.0	68.5
2259N	56725	10.0	5.0	68.4
2260N	57466	10.0	6.0	67.8
2261N	58317	9.0	9.0	67.2
2262N	56537	17.0	10.0	65.9
2263N	56471	16.0	8.0	65.1
2264N	56800	24.0	9.0	54.7
2265N	56813	17.0	8.0	62.8
2266N	56419	22.0	13.0	64.1
2267N	56054	26.0	13.0	70.1
2268N	56781	43.0	13.0	58.3
2269N	56867	25.0	12.0	71.0
2270N	55908	34.0	12.0	71.3
2271N	55948	16.0	7.0	77.7
2272N	56016	15.0	6.0	77.4
2273N	56008	14.0	3.0	82.7
2274N	55997	9.0	0.0	83.7
2275N	56043	17.0	1.0	72.9
2276N	56069	15.0	3.0	76.9
2277N	56093	16.0	4.0	77.4
2277N	56106	11.0	2.0	78.1
2278N	56093	N/R	N/R	N/R

----- LINE=2756.E -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
2228N	56550	20.0	-11.0	28.8
2229N	56244	25.0	-5.0	30.6
2230N	56245	34.0	-9.0	29.2
2231N	56220	32.0	1.0	27.5
2232N	56309	24.0	8.0	30.8
2233N	56283	24.0	14.0	32.0
2234N	56237	29.0	11.0	32.8

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LINE=2758.E

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
2235N	56248	23.0	9.0	34.8
2236N	56389	21.0	-1.0	36.1
2237N	56295	22.0	-6.0	35.1
2238N	56331	11.0	0.0	55.9
2238N	56338	23.0	-11.0	35.1
2239N	56334	18.0	0.0	54.4
2240N	56371	23.0	-2.0	54.3
2241N	56487	24.0	-3.0	52.8
2242N	57072	22.0	-2.0	51.8
2243N	56166	19.0	-2.0	54.0
2244N	56501	20.0	-1.0	55.4
2245N	56520	17.0	-2.0	51.6
2246N	56555	12.0	-3.0	53.3
2247N	56412	19.0	-3.0	50.2
2248N	56373	7.0	-2.0	50.8
2249N	56427	8.0	-2.0	49.6
2250N	56431	10.0	-3.0	46.3
2251N	56424	10.0	0.0	47.4
2252N	56407	7.0	-2.0	46.4
2253N	56334	15.0	0.0	45.3
2254N	56388	9.0	-1.0	42.8
2255N	56348	3.0	-4.0	49.9
2256N	56358	1.0	-4.0	49.6
2257N	56316	0.0	-4.0	47.8
2258N	56239	5.0	-4.0	43.9
2259N	56241	3.0	-1.0	44.9
2260N	56195	11.0	2.0	37.3
2260N	56267	8.0	0.0	44.5
2261N	56087	24.0	0.0	36.1
2262N	56378	16.0	2.0	40.5
2263N	56628	12.0	4.0	38.6
2264N	57193	5.0	-5.0	41.2
2264N	57172	4.0	-5.0	42.7
2265N	57140	19.0	5.0	45.1
2266N	57287	20.0	3.0	49.4
2267N	57356	-4.0	-7.0	41.1
2267N	57414	20.0	2.0	51.5
2268N	57760	21.0	0.0	55.9
2269N	57522	28.0	-4.0	59.0
2270N	56466	26.0	-3.0	64.1
2272N	56355	25.0	-1.0	65.1
2273N	56237	37.0	-8.0	63.2
2274N	56265	29.0	-10.0	62.7
2275N	56205	18.0	-4.0	75.8
2276N	56143	13.0	-4.0	76.1
2277N	56163	19.0	0.0	81.5

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----- LINE=2756.E -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
2279N	56134	13.0	0.0	84.0

----- LINE=2764.E -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
2228N	56242	-21.0	-6.0	31.6
2229N	56351	21.0	5.0	33.4
2230N	56333	-18.0	-11.0	31.7
2232N	56365	-14.0	-11.0	30.5
2233N	56476	-9.0	-10.0	33.0
2234N	56230	-6.0	-12.0	30.9
2235N	56253	-4.0	-8.0	30.8
2236N	56277	-12.0	-7.0	28.9
2237N	56380	24.0	0.0	32.3
2238N	56513	25.0	4.0	33.5
2239N	56460	21.0	2.0	34.5
2240N	56385	29.0	2.0	37.1
2241N	56391	28.0	2.0	38.3
2242N	56364	22.0	0.0	37.6
2243N	56583	12.0	0.0	31.9
2244N	56595	9.0	1.0	32.2
2245N	56567	7.0	2.0	29.7
2246N	56554	5.0	0.0	29.7
2247N	56536	1.0	0.0	29.7
2248N	56543	5.0	0.0	26.0
2249N	56571	3.0	1.0	32.0
2250N	56630	2.0	1.0	32.1
2251N	56470	0.0	0.0	33.0
2252N	56541	0.0	0.0	30.9
2253N	56532	-5.0	-3.0	29.8
2254N	56624	-14.0	-7.0	30.0
2255N	56410	-24.0	-16.0	30.0
2256N	56474	-12.0	-7.0	33.9
2257N	56606	-9.0	-9.0	35.7
2258N	56547	-4.0	-7.0	35.4
2259N	56243	10.0	-10.0	32.2
2260N	56441	8.0	-2.0	34.9
2261N	56635	13.0	1.0	38.0
2262N	57213	-3.0	1.0	43.0
2262N	57160	-4.0	-1.0	40.9
2263N	56660	0.0	0.0	40.7
2264N	56489	5.0	3.0	42.2

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----- LINE=2734.E -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
2265N	56798	11.0	2.0	43.2
2266N	56833	16.0	2.0	45.2
2267N	56974	14.0	0.0	45.0
2268N	57130	20.0	-1.0	45.7
2269N	56919	24.0	-3.0	46.1
2270N	57949	31.0	-7.0	36.4
2271N	57776	27.0	-4.0	47.9
2272N	56554	21.0	-3.0	50.0
2273N	57072	13.0	-2.0	51.3
2274N	56421	18.0	3.0	53.2
2275N	56462	16.0	0.0	51.2
2276N	56499	11.0	-1.0	51.9
2277N	56237	12.0	-1.0	49.9
2278N	56178	14.0	0.0	52.5

----- LINE=2772.E -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
2228N	56434	-23.0	-14.0	43.6
2229N	56218	-25.0	-16.0	46.3
2230N	56575	-17.0	-11.0	50.2
2231N	56618	-16.0	-9.0	49.8
2232N	56641	-21.0	-12.0	56.8
2233N	56279	-16.0	-7.0	54.2
2234N	56353	-12.0	-3.0	59.1
2235N	56365	-13.0	-3.0	54.7
2236N	56375	-14.0	-4.0	56.0
2237N	56401	-8.0	-1.0	59.5
2238N	56499	-8.0	-1.0	60.2
2239N	56436	-1.0	1.0	64.9
2240N	56633	2.0	0.0	66.2
2241N	56550	-8.0	-4.0	56.7
2242N	56291	-4.0	-7.0	64.5
2243N	56671	-5.0	-9.0	71.1
2244N	56478	-1.0	-5.0	67.6
2245N	56580	-10.0	-12.0	57.9
2246N	56692	-2.0	-7.0	74.5
2247N	56769	-3.0	-9.0	60.3
2248N	56636	4.0	-4.0	78.6
2249N	56734	9.0	-3.0	75.1
2250N	56583	11.0	-1.0	72.0
2251N	56527	-9.0	-1.0	69.8

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----- LINE=2772.E -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
2252N	56671	-20.0	-8.0	64.1
2253N	56791	-17.0	-8.0	56.2
2254N	56839	-10.0	-7.0	55.1
2255N	56820	-5.0	-4.0	52.2
2256N	56258	3.0	-1.0	55.6
2257N	56074	9.0	0.0	59.0
2258N	56217	8.0	-2.0	60.6
2259N	56576	11.0	-3.0	59.6
2260N	56632	17.0	-1.0	58.0
2261N	56113	15.0	0.0	64.3
2262N	56167	0.0	-5.0	58.6
2263N	56662	1.0	-2.0	53.9
2264N	56704	8.0	0.0	51.7
2265N	56595	15.0	1.0	52.9
2266N	56394	13.0	0.0	53.3
2267N	56657	15.0	2.0	54.2
2268N	56699	17.0	1.0	57.0
2269N	57073	16.0	-1.0	55.6
2270N	57422	20.0	-1.0	54.5
2271N	57650	26.0	0.0	52.2
2272N	57548	33.0	1.0	57.8
2273N	57448	29.0	-1.0	62.4
2274N	57176	23.0	-5.0	60.1
2275N	56430	25.0	-7.0	60.4
2276N	56553	22.0	-7.0	60.0
2277N	56289	22.0	-6.0	62.1
2278N	57037	18.0	-3.0	55.6

----- LINE=2780.E -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
2227N	56448	10.0	10.0	65.6
2228N	56450	9.0	10.0	64.5
2229N	56291	6.0	16.0	70.6
2230N	56265	9.0	19.0	67.5
2231N	56287	9.0	16.0	69.2
2232N	56331	9.0	14.0	64.2
2233N	56342	7.0	11.0	65.0
2234N	56290	8.0	10.0	64.5
2235N	56275	7.0	2.0	62.8
2236N	56259	12.0	3.0	62.6
2237N	56274	13.0	1.0	65.5

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----- LINE#2730.E -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
2238N	56225	15.0	1.0	66.3
2239N	56218	16.0	2.0	65.5
2240N	56254	16.0	2.0	67.2
2241N	56250	16.0	4.0	66.8
2242N	56266	14.0	3.0	68.4
2243N	56237	10.0	2.0	71.8
2244N	56248	10.0	3.0	72.2
2245N	56247	9.0	2.0	72.4
2246N	56237	0.0	-4.0	71.4
2247N	56355	4.0	-1.0	69.1
2248N	56419	5.0	-1.0	68.9
2249N	56321	4.0	-1.0	69.5
2250N	56153	5.0	0.0	70.1
2251N	56316	0.0	0.0	74.8
2252N	56374	0.0	4.0	70.9
2253N	56712	1.0	5.0	73.3
2254N	56845	-2.0	-1.0	73.3
2255N	56384	-5.0	-3.0	71.6
2256N	56423	-10.0	-8.0	70.7
2257N	56409	-8.0	-11.0	67.8
2258N	56030	-6.0	-15.0	64.0
2259N	56013	0.0	-15.0	61.1
2260N	55985	0.0	11.0	59.4
2261N	56114	-16.0	4.0	58.1
2262N	55866	25.0	0.0	69.6
2262N	55866	4.0	-2.0	32.3
2263N	56037	3.0	0.0	29.6
2264N	56133	N/R	N/R	N/R
2265N	56154	0.0	0.0	28.5
2266N	56229	21.0	4.0	27.7
2267N	56291	28.0	8.0	31.8
2268N	56379	25.0	8.0	36.0
2269N	56322	16.0	6.0	39.4
2270N	56222	9.0	3.0	64.8
2271N	56293	6.0	2.0	62.4
2272N	56352	9.0	2.0	58.9
2273N	56418	12.0	2.0	58.6
2274N	56436	14.0	1.0	60.1
2275N	56491	16.0	0.0	59.3
2276N	56481	18.0	1.0	59.5
2277N	56528	23.0	1.0	62.5
2278N	56531	24.0	2.0	65.1

UTAH MINES LIMITED
ISLAND COPPER MINE

1986 GROUND GEOPHYSICS SURVEY
APPLE CLAIMS

LINE 270 LE

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
2228N	56186	8.0	-1.0	64.8
2229N	56136	11.0	0.0	59.0
2230N	56125	13.0	2.0	59.9
2231N	56118	11.0	3.0	61.0
2232N	56100	15.0	5.0	58.8
2233N	56097	20.0	5.0	61.2
2234N	56118	11.0	0.0	67.5
2235N	56002	13.0	4.0	58.1
2236N	55991	10.0	3.0	64.2
2237N	55958	15.0	1.0	67.5
2238N	56073	18.0	0.0	75.0
2239N	56134	8.0	-8.0	68.4
2240N	56111	7.0	-6.0	68.1
2241N	55978	9.0	-6.0	63.7
2242N	56350	13.0	-3.0	66.6
2243N	55977	15.0	-5.0	66.6
2244N	56074	15.0	-5.0	68.9
2245N	56093	20.0	-6.0	67.1
2246N	56301	19.0	-5.0	69.5
2247N	56204	22.0	-7.0	67.4
2248N	56198	22.0	-9.0	75.0
2249N	56102	15.0	-11.0	76.5
2250N	56123	13.0	-11.0	79.2
2251N	56145	11.0	-7.0	78.0
2252N	56172	0.0	-5.0	73.0
2253N	56178	-4.0	2.0	76.8
2254N	56199	-16.0	2.0	70.3
2255N	56329	-22.0	4.0	60.2
2256N	56256	-14.0	1.0	58.6
2257N	56277	-6.0	0.0	56.7
2258N	56372	-8.0	-6.0	55.7
2259N	56444	-9.0	-12.0	50.9
2260N	56290	-1.0	-12.0	45.8
2261N	56014	12.0	-6.0	44.9
2262N	56000	17.0	-4.0	44.3
2262N	56056	17.0	-4.0	44.3
2262N	56029	17.0	-4.0	44.3
2263N	56057	N/R	N/R	N/R
2263N	56057	N/R	N/R	N/R
2264N	56461	N/R	N/R	N/R
2264N	56461	N/R	N/R	N/R
2265N	56841	N/R	N/R	N/R
2265N	56841	N/R	N/R	N/R
2266N	56763	N/R	N/R	N/R
2266N	56763	N/R	N/R	N/R
2267N	56210	N/R	N/R	N/R

UTAH MINES LIMITED
ISLAND COPPER MINE

1966 GROUND GEOPHYSICS SURVEY
APPLE CLAIMS

----- LINE=2728.E -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
2267N	56210	N/R	N/R	N/R
2268N	56271	N/R	N/R	N/R
2268N	56271	N/R	N/R	N/R
2269N	56648	N/R	N/R	N/R
2269N	56648	N/R	N/R	N/R
2270N	56439	N/R	N/R	N/R
2270N	56439	N/R	N/R	N/R
2271N	56049	N/R	N/R	N/R
2271N	56049	N/R	N/R	N/R
2272N	56236	N/R	N/R	N/R
2272N	56207	N/R	N/R	N/R
2273N	56328	N/R	N/R	N/R
2273N	56328	N/R	N/R	N/R
2274N	56339	N/R	N/R	N/R
2274N	56339	N/R	N/R	N/R
2275N	56393	N/R	N/R	N/R
2275N	56393	N/R	N/R	N/R
2276N	56382	N/R	N/R	N/R
2276N	56382	N/R	N/R	N/R
2277N	56430	N/R	N/R	N/R
2277N	56430	N/R	N/R	N/R

----- LINE=2821.E -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
2300N	56032	N/R	N/R	N/R
2300N	56036	N/R	N/R	N/R
2300N	56328	N/R	N/R	N/R
2301N	56280	N/R	N/R	N/R
2302N	56243	N/R	N/R	N/R
2303N	56238	N/R	N/R	N/R
2304N	56388	N/R	N/R	N/R
2305N	56793	N/R	N/R	N/R
2306N	56809	N/R	N/R	N/R
2307N	56789	N/R	N/R	N/R
2308N	56652	N/R	N/R	N/R
2309N	56572	N/R	N/R	N/R
2309N	56557	N/R	N/R	N/R
2310N	56620	N/R	N/R	N/R
2311N	56580	N/R	N/R	N/R
2312N	56585	N/R	N/R	N/R
2313N	56578	N/R	N/R	N/R

UTAH MINES LIMITED
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1986 GROUND GEOPHYSICS SURVEY
APPLE CLAIMS

----- LINE=2821.E -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
2314N	56406	N/R	N/R	N/R
2315N	56260	N/R	N/R	N/R
2316N	56064	N/R	N/R	N/R
2317N	56117	N/R	N/R	N/R
2318N	56265	N/R	N/R	N/R
2319N	56386	N/R	N/R	N/R
2320N	56347	N/R	N/R	N/R
2321N	56383	N/R	N/R	N/R
2322N	56335	N/R	N/R	N/R
2323N	56374	N/R	N/R	N/R
2324N	56300	N/R	N/R	N/R
2325N	56260	N/R	N/R	N/R
2326N	56317	N/R	N/R	N/R

----- LINE=2829.E -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
2300N	56188	N/R	N/R	N/R
2301N	56488	N/R	N/R	N/R
2302N	56663	N/R	N/R	N/R
2303N	56426	N/R	N/R	N/R
2304N	56642	N/R	N/R	N/R
2305N	56553	N/R	N/R	N/R
2306N	56785	N/R	N/R	N/R
2307N	56911	N/R	N/R	N/R
2308N	56909	N/R	N/R	N/R
2309N	57021	N/R	N/R	N/R
2310N	56792	N/R	N/R	N/R
2311N	56643	N/R	N/R	N/R
2312N	56673	N/R	N/R	N/R
2313N	56691	N/R	N/R	N/R
2314N	56735	N/R	N/R	N/R
2315N	56612	N/R	N/R	N/R
2316N	56613	N/R	N/R	N/R
2317N	56484	N/R	N/R	N/R
2318N	56507	N/R	N/R	N/R
2319N	56522	N/R	N/R	N/R
2320N	56402	N/R	N/R	N/R
2321N	56392	N/R	N/R	N/R
2322N	56389	N/R	N/R	N/R
2323N	56396	N/R	N/R	N/R
2324N	56443	N/R	N/R	N/R

UTAH MINES LIMITED
ISLAND COPPER MINE

1986 GROUND GEOPHYSICS SURVEY
APPLE CLAIMS

----- LINE=2829.E -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
2325N	56373	N/R	N/R	N/R
2326N	56413	N/R	N/R	N/R

----- LINE=2837.E -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
2278N	55892	N/R	N/R	N/R
2279N	55890	N/R	N/R	N/R
2280N	56295	N/R	N/R	N/R
2281N	55834	N/R	N/R	N/R
2282N	56033	N/R	N/R	N/R
2283N	56183	N/R	N/R	N/R
2284N	56000	N/R	N/R	N/R
2285N	56030	N/R	N/R	N/R
2286N	56069	N/R	N/R	N/R
2287N	56041	N/R	N/R	N/R
2288N	56066	N/R	N/R	N/R
2289N	56062	N/R	N/R	N/R
2290N	56107	N/R	N/R	N/R
2291N	56066	N/R	N/R	N/R
2292N	56080	N/R	N/R	N/R
2293N	56104	N/R	N/R	N/R
2294N	56066	N/R	N/R	N/R
2295N	56079	N/R	N/R	N/R
2296N	56077	N/R	N/R	N/R
2297N	56113	N/R	N/R	N/R
2298N	56015	N/R	N/R	N/R
2299N	56108	N/R	N/R	N/R
2300N	55700	N/R	N/R	N/R
2300N	55672	N/R	N/R	N/R
2301N	56016	N/R	N/R	N/R
2302N	56054	N/R	N/R	N/R
2303N	56045	N/R	N/R	N/R
2304N	56098	N/R	N/R	N/R
2305N	56081	N/R	N/R	N/R
2306N	56120	N/R	N/R	N/R
2307N	56530	N/R	N/R	N/R
2308N	57477	N/R	N/R	N/R
2309N	57198	N/R	N/R	N/R
2310N	57227	N/R	N/R	N/R
2311N	56906	N/R	N/R	N/R
2312N	56124	N/R	N/R	N/R

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1986 GROUND GEOPHYSICS SURVEY
APPLE CLAIMS

----- LINE=2037.E -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
2313N	56654	N/R	N/R	N/R
2314N	56697	N/R	N/R	N/R
2315N	56932	N/R	N/R	N/R
2316N	56294	N/R	N/R	N/R
2317N	56336	N/R	N/R	N/R
2318N	57455	N/R	N/R	N/R
2319N	57772	N/R	N/R	N/R
2320N	57115	N/R	N/R	N/R
2321N	56398	N/R	N/R	N/R
2322N	56395	N/R	N/R	N/R
2323N	56405	N/R	N/R	N/R
2324N	56440	N/R	N/R	N/R
2325N	56511	N/R	N/R	N/R
2326N	56384	N/R	N/R	N/R

----- LINE=2945.E -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
SN	56147	N/R	N/R	N/R
2236N	56128	0.0	0.0	0.0
2237N	56105	0.0	0.0	68.9
2238N	55999	4.0	-14.0	39.1
2239N	56134	-12.0	-10.0	53.4
2240N	56151	-50.0	-14.0	23.4
2241N	55941	0.0	0.0	0.0
2242N	56257	-6.0	1.0	63.5
2243N	56064	-7.0	0.0	69.1
2244N	56058	-32.0	-1.0	57.3
2278N	56201	N/R	N/R	N/R
2279N	55956	N/R	N/R	N/R
2280N	55917	N/R	N/R	N/R
2281N	55925	N/R	N/R	N/R
2282N	55956	N/R	N/R	N/R
2283N	55913	N/R	N/R	N/R
2284N	56021	N/R	N/R	N/R
2285N	56035	N/R	N/R	N/R
2286N	56002	N/R	N/R	N/R
2287N	56053	N/R	N/R	N/R
2288N	56050	N/R	N/R	N/R
2289N	56058	N/R	N/R	N/R
2290N	56076	N/R	N/R	N/R
2291N	56117	N/R	N/R	N/R

UTAH MINES LIMITED
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1986 GROUND GEOPHYSICS SURVEY
APPLE CLAIMS

----- LINE=0845.2 -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
2292N	56081	N/R	N/R	N/R
2293N	56116	N/R	N/R	N/R
2294N	56122	N/R	N/R	N/R
2295N	56081	N/R	N/R	N/R
2296N	56104	N/R	N/R	N/R
2297N	56111	N/R	N/R	N/R
2298N	56089	N/R	N/R	N/R
2299N	56100	N/R	N/R	N/R
2300N	56112	N/R	N/R	N/R
2300N	56122	N/R	N/R	N/R
2300N	56112	N/R	N/R	N/R
2300N	56109	N/R	N/R	N/R
2300N	55960	N/R	N/R	N/R
2300N	55961	N/R	N/R	N/R
2301N	56118	N/R	N/R	N/R
2302N	56134	N/R	N/R	N/R
2303N	56118	N/R	N/R	N/R
2304N	56127	N/R	N/R	N/R
2305N	56111	N/R	N/R	N/R
2306N	56174	N/R	N/R	N/R
2307N	56243	N/R	N/R	N/R
2308N	56434	N/R	N/R	N/R
2309N	56385	N/R	N/R	N/R
2310N	56054	N/R	N/R	N/R
2311N	56171	N/R	N/R	N/R
2312N	56212	N/R	N/R	N/R
2313N	56624	N/R	N/R	N/R
2314N	56356	N/R	N/R	N/R
2315N	56240	N/R	N/R	N/R
2316N	56725	N/R	N/R	N/R
2317N	56348	N/R	N/R	N/R
2318N	56316	N/R	N/R	N/R
2319N	56504	N/R	N/R	N/R
2320N	56447	N/R	N/R	N/R
2321N	56542	N/R	N/R	N/R
2322N	56649	N/R	N/R	N/R
2323N	56702	N/R	N/R	N/R
2324N	56450	N/R	N/R	N/R
2325N	56339	N/R	N/R	N/R
2326N	56359	N/R	N/R	N/R

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1986 GROUND GEOPHYSICS SURVEY
APPLE CLAIMS

----- LINE=2854.E -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
2228N	56269	5.0	-6.0	84.8
2229N	56079	-9.0	4.0	73.7
2230N	56205	0.0	0.0	0.0
2231N	56058	-5.0	2.0	74.1
2232N	56172	0.0	0.0	0.0
2233N	55992	0.0	0.0	0.0
2234N	56009	0.0	-9.0	59.3
2235N	56118	0.0	0.0	0.0
2236N	56259	5.0	-1.0	68.0
2237N	56223	-1.0	-3.0	58.3
2238N	56196	4.0	-1.0	62.0
2239N	55991	-1.0	-2.0	64.6
2240N	56152	0.0	0.0	0.0
2241N	56416	-7.0	-1.0	64.3
2242N	56174	-5.0	2.0	65.5
2243N	56106	0.0	0.0	0.0
2244N	56181	16.0	-5.0	65.5

----- LINE=2852.E -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
2228N	56359	-5.0	-4.0	85.4
2229N	56352	-10.0	-11.0	76.8
2230N	56185	-6.0	-14.0	63.9
2231N	55852	25.0	-10.0	41.9
2232N	55859	9.0	-3.0	59.0
2233N	56263	-1.0	-5.0	67.1
2234N	55990	0.0	1.0	58.9
2235N	56248	0.0	0.0	0.0
2236N	56080	-17.0	-5.0	29.5
2237N	56207	0.0	0.0	0.0
2238N	56147	17.0	3.0	54.8
2239N	56396	13.0	4.0	56.0
2240N	56272	0.0	0.0	0.0
2241N	56195	2.0	1.0	59.6
2242N	56438	-4.0	-1.0	55.5
2243N	56418	0.0	-6.0	54.3
2244N	56125	-5.0	4.0	42.5

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1986 GROUND GEOPHYSICS SURVEY
APPLE CLAIMS

----- LINE=2870.E -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
2228N	56232	3.0	-3.0	112.0
2229N	56288	-1.0	4.0	112.0
2230N	56394	-14.0	-1.0	110.0
2231N	56343	-12.0	-7.0	103.0
2232N	56394	-5.0	-7.0	95.7
2233N	56091	2.0	3.0	97.3
2234N	56418	17.0	2.0	99.3
2235N	56316	19.0	3.0	89.0
2236N	56460	15.0	0.0	86.4
2237N	56275	6.0	0.0	92.9
2238N	56083	6.0	0.0	86.1
2239N	56331	-18.0	-4.0	63.6
2240N	56119	-2.0	-1.0	94.4
2241N	56047	2.0	-1.0	93.1
2242N	56251	1.0	1.0	95.3
2243N	56218	5.0	0.0	87.0
2244N	56251	1.0	0.0	94.6

----- LINE=2878.E -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
2228N	56040	5.0	-5.0	104.0
2229N	56213	3.0	-4.0	108.0
2230N	56181	1.0	-11.0	100.0
2231N	55876	0.0	-8.0	104.0
2232N	56041	5.0	-3.0	98.3
2233N	56355	-6.0	5.0	97.4
2234N	56251	-4.0	-4.0	95.4
2235N	55996	-5.0	-2.0	89.0
2236N	56522	1.0	1.0	80.3
2237N	56245	3.0	2.0	87.9
2238N	56029	5.0	4.0	88.9
2239N	56100	5.0	4.0	88.6
2240N	56183	5.0	4.0	87.4
2241N	56264	-3.0	0.0	87.6
2242N	56162	-6.0	-4.0	79.3
2243N	56102	2.0	-4.0	81.2
2244N	55951	5.0	-3.0	78.5

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1986 GROUND GEOPHYSICS SURVEY
APPLE CLAIMS

----- LINE=2895.E -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
2226N	55895	0.0	0.0	0.0
2229N	55930	0.0	0.0	0.0
2230N	55921	0.0	0.0	0.0
2231N	55991	0.0	0.0	0.0
2232N	56134	0.0	0.0	0.0
2233N	56152	0.0	0.0	0.0
2234N	56148	0.0	0.0	0.0
2235N	56189	0.0	0.0	0.0
2234N	56189	0.0	0.0	0.0
2234N	56189	0.0	0.0	0.0
2234N	56189	0.0	0.0	0.0
2235N	56349	14.0	-1.0	61.7
2235N	56349	0.0	0.0	0.0
2236N	56424	N/R	N/R	N/R
2237N	56317	N/R	N/R	N/R
2238N	56164	N/R	N/R	N/R
2239N	55931	N/R	N/R	N/R
2240N	56070	N/R	N/R	N/R
2241N	56573	N/R	N/R	N/R
2242N	56170	N/R	N/R	N/R
2243N	56031	N/R	N/R	N/R
2244N	56533	N/R	N/R	N/R
2244N	56083	N/R	N/R	N/R

----- LINE=2895.E -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
2228N	56198	0.0	0.0	0.0
2229N	55884	0.0	0.0	0.0
2230N	56107	0.0	0.0	0.0
2231N	56186	0.0	0.0	0.0
2232N	56070	0.0	0.0	75.4
2233N	56082	0.0	0.0	0.0
2234N	56048	0.0	0.0	0.0
2235N	56066	-34.0	-1.0	85.1
2236N	55979	8.0	-2.0	92.1
2237N	55951	3.0	-3.0	95.4
2238N	55949	1.0	-6.0	88.0
2239N	55989	6.0	-7.0	81.2
2240N	55809	14.0	-1.0	88.8
2241N	55945	19.0	-4.0	87.9
2242N	56023	11.0	-2.0	80.9

UTAH MINES LIMITED
ISLAND COPPER MINE

1986 GROUND GEOPHYSICS SURVEY
APPLE CLAIMS

----- LINE=2893.E -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
2243N	55929	14.0	0.0	66.2
2244N	55946	37.0	-6.0	67.4

----- LINE=2903.E -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
2228N	55800	2.0	3.0	70.6
2229N	55978	4.0	5.0	71.6
2230N	56097	17.0	8.0	64.1
2231N	56106	-3.0	-1.0	66.0
2232N	56195	4.0	-6.0	75.0
2233N	56123	21.0	-3.0	66.1
2234N	56122	-16.0	-3.0	57.7
2235N	55116	-4.0	2.0	59.2
2236N	56960	3.0	0.0	65.4
2237N	56039	9.0	1.0	69.9
2238N	56456	2.0	-2.0	70.9
2239N	56225	7.0	5.0	68.6
2240N	56048	0.0	0.0	0.0
2241N	56042	64.0	-18.0	23.1
2241N	56040	7.0	-2.0	68.4
2242N	56422	7.0	0.0	75.4
2243N	56069	6.0	0.0	83.0
2244N	55819	4.0	2.0	79.5
2245N	55985	13.0	-1.0	85.0

----- LINE=2911.E -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
2228N	55982	0.0	0.0	30.3
2229N	55947	5.0	0.0	32.4
2230N	55989	10.0	4.0	31.1
2231N	56073	10.0	4.0	32.4
2232N	55936	12.0	12.0	32.5
2233N	55973	0.0	13.0	29.0
2234N	55977	0.0	13.0	29.0
2234N	56328	11.0	-3.0	33.9
2234N	56328	-1.0	11.0	31.1

UTAH MINES LIMITED
ISLAND COPPER MINE

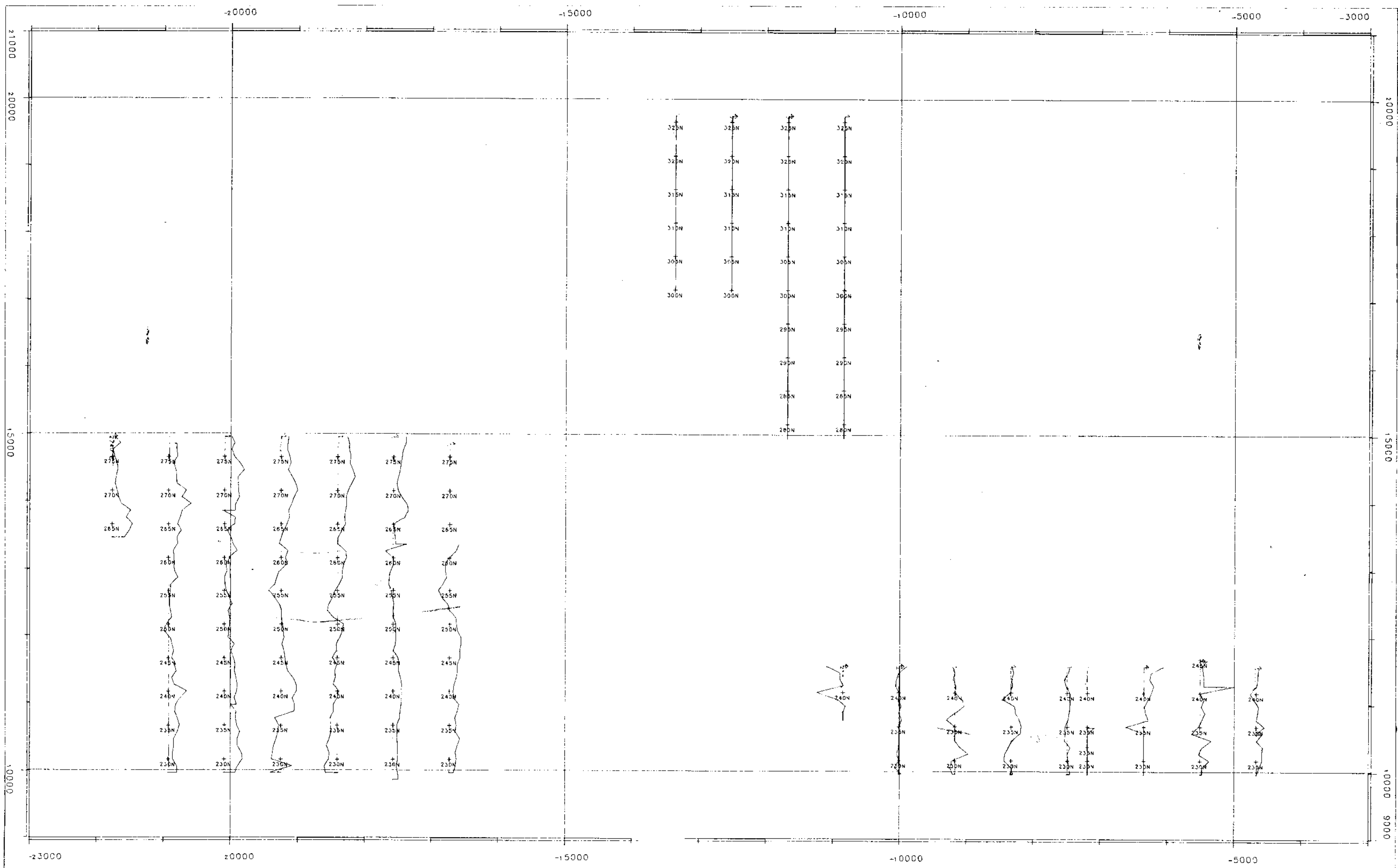
1986 GROUND GEOPHYSICS SURVEY
APPLE CLAIMS

----- LINE=2011.E -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HO-12 FIELD STRENGTH
2235N	55960	15.0	-3.0	91.2
2236N	56061	0.0	5.0	91.0
2237N	56135	2.0	3.0	89.5
2238N	56142	4.0	8.0	99.0
2239N	56232	-5.0	-6.0	106.0
2240N	56301	-12.0	-17.0	93.0
2241N	56160	0.0	0.0	92.0
2242N	56242	2.0	-5.0	95.9
2243N	56010	3.0	3.0	105.0
2244N	56476	5.0	-5.0	94.3

----- LINE=99.E -----

STA	TOTAL FIELD IN GAMMAS	HAWAII VLF IN-PHASE	HAWAII VLF OUT-OF-PHASE	HAWAII VLF HORIZ FIELD STRENGTH
99N	56355	N/R	N/R	N/R
99N	56677	N/R	N/R	N/R
99N	56677	N/R	N/R	N/R
99N	56677	N/R	N/R	N/R
99N	56678	N/R	N/R	N/R

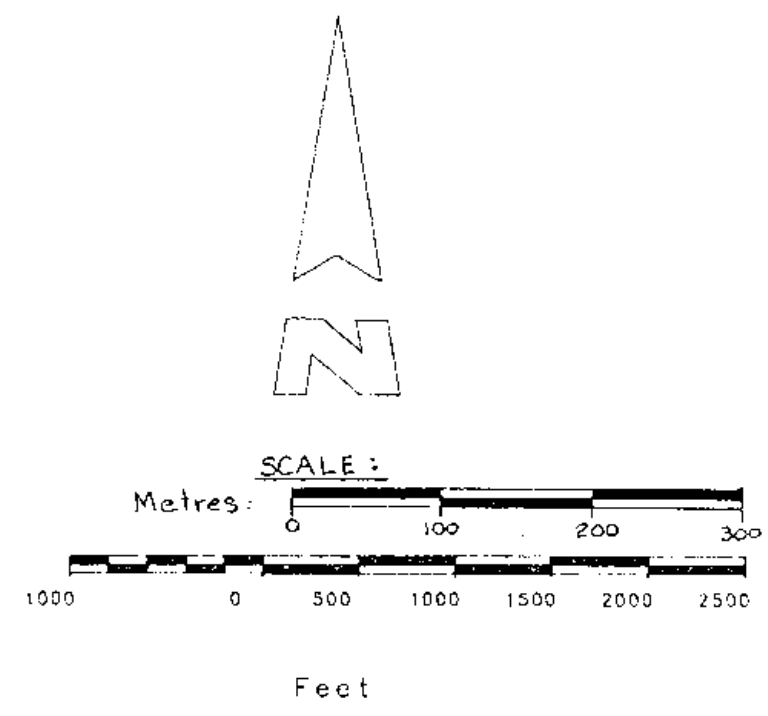


GEOLOGICAL BRANCH
ASSESSMENT REPORT

15,707

PART 4 OF 6

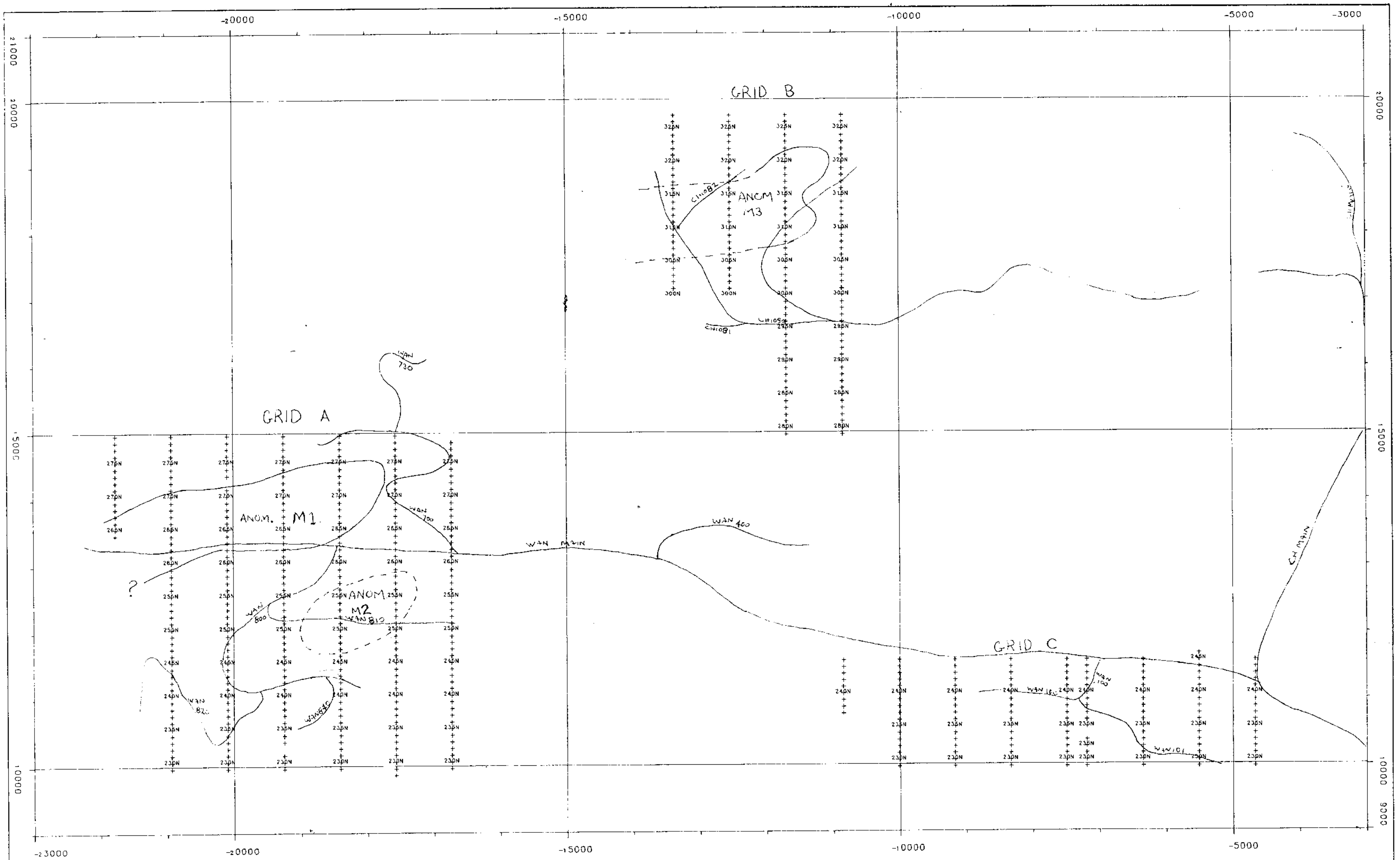
Utah Mines Ltd.	
ISLAND COPPER MINE	
Port Hardy, B.C.	
Drawn by <i>G.A.C.</i>	Date <i>FEB 87</i>
Traced by	Scale <i>1:12,000</i>
Approved by <i>J.A.F.</i>	Revision
Bench Elev.	Org. No.



IN-PHASE
OUT-PHASE

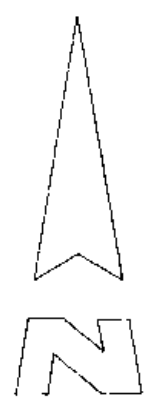
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SCALE
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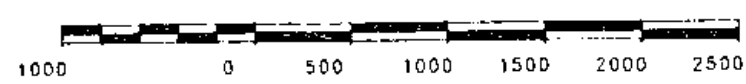


**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

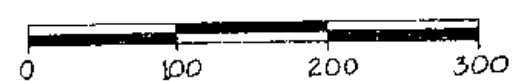
15,707
PART 4 OF 6



SCALE:



Feet

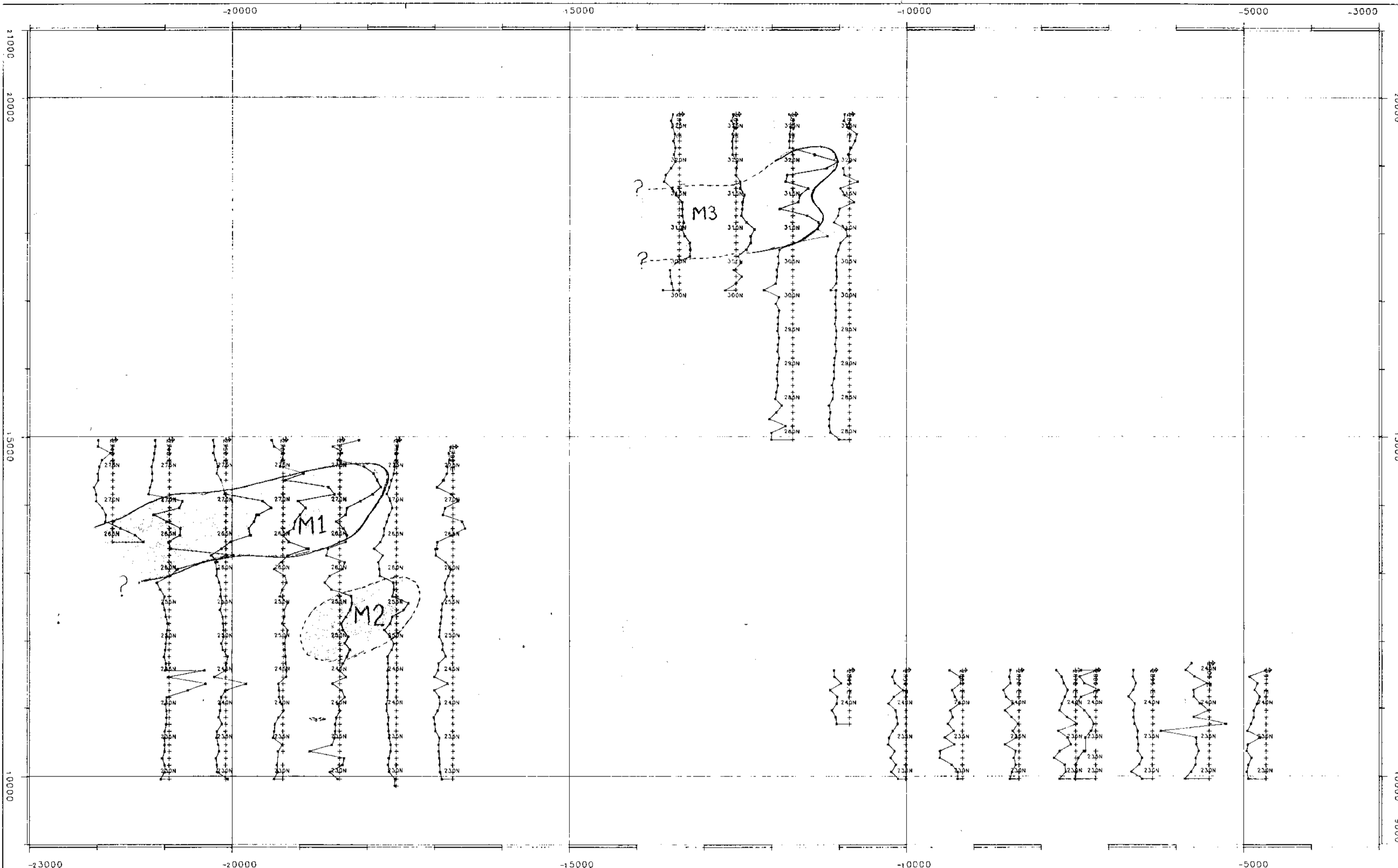


Metres

UTAH MINES LIMITED

ISLAND COPPER MINE
APPLE CLAIMS
GEOPHYSICS DATA LOCATIONS

Scale: 1000:00
Date: 22-FEB-87
Project:
Drawn By: ATR
Checked:
Approved: JAF
Drawing No.
MV86.LC



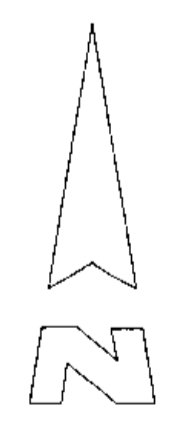
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

**15,707
PART 4 OF 6**

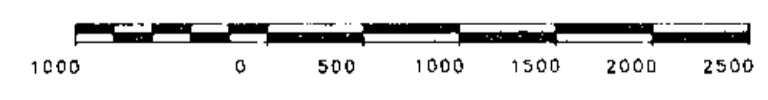
note Profile Scale Positive to Right
2000 dropped from Station Numbers

MAG BASE
 56500

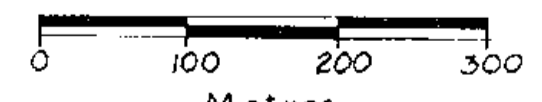
SCALE SYMBOL
750 *



SCALE



Feet



Metres

UTAH MINES LIMITED

ISLAND COPPER MINE
WEST END 1986
GROUND MAGNETICS (NT)

Scale: 1:12000
Date: 22-FEB-87
Project:
Drawn By: ATR
Checked:
Approved: JAF
Drawing No.
MV86.MG