

03/92

UTAH MINES LTD.

ISLAND COPPER MINE

REPORT ON EXPLORATION DIAMOND DRILLING

(FAME REPORT)

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

15,707

PART 5 OF 6

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1.0 INTRODUCTION

Between the 8th of October, 1986, and the 24th of January, 1987, six diamond drill holes totalling 3127 meters (10259 feet) were drilled outside of the Island Copper pit on the mineral leases and contiguous claims (Fig. 1). Five of the holes tested potential copper skarn targets in the Quatsino limestone. Three of these holes were aimed at deep skarn targets north of the pit and the Bay (Frances) Lake area. The other two skarn holes were drilled for shallow skarn targets as a follow-up to skarn mineralization intersected in holes E-65 and E-66 in the area northwest of the Coal Harbour - Mine Road junction. The sixth hole was drilled in the southeast of the mineral property to test an isolated aeromag anomaly for mineral potential.

2.0 PROPERTY DESCRIPTION

The mineral property contiguous to the seven mineral leases consists of 223 two-post claims and 24 mineral claims composed of 293 units. The property measures about 25 km east-west extending over Rupert and Holberg Inlets and 1.3 to 8.3 km north-south.

3.0 PHYSIOGRAPHY

The mineral property is characterized by low, rolling hills with maximum relief of 200 meters. The main creeks across the area are Washlawlis and Waukwaas creeks draining into Rupert Inlet and Nuknimish and Stephen's Creek draining into Holberg Inlet.

4.0 ACCESS

Access to the area is by paved road from Port Hardy, located some 8 km to the north, and by the paved mine access road. A number of logging roads suitable for two-wheel vehicles cross the area providing good access to most parts.

5.0 PREVIOUS WORK

The mineral property has been subjected to an ongoing exploration program since the mine started production in 1971. Property wide surveys conducted on cut lines, flagged lines and along roads and trails to various stages of completion have included geological mapping on a scale of 1:4800, multielement soil geochemistry, mag/VLF, and conductivity and resistivity. Holes have been drilled on a regular basis to test the anomalous areas primarily for porphyry copper targets and more recently for copper skarns associated with the porphyry copper deposit. Assessment reports have been submitted for most of the work off the mineral leases.

6.0 OBJECTIVES

The previous work showed that economic copper skarn potential exists along the line of contact between the Quatsino limestone and the quartz-feldspar porphyry intrusion in the Island Copper deposit and projected extensions of this dyke system to the west of pit. Specifically, garnet skarn had been intersected in two holes (E-65 and E-66) with anomalous zinc and copper assays that indicated that potential exists for a relatively shallow skarn deposit well to the northwest of the pit. It was to these targets that the bulk of the drilling was addressed.

7.0 WORK PERFORMED

<u>Hole</u>	<u>Length</u>
R-18	304.8 meters (1000 ft.)
E-67	857.4 meters (2813 ft.)
E-68	613.5 meters (2012 ft.)
E-69	272.8 meters (895 ft.)
W-5	336.5 meters (1004 ft.)
E-70	772.7 meters (2535 ft.)

Drill core was logged, photographed and measured for recovery, RQD and magnetic susceptibility. Splitting and sampling of the core in ten foot sample has been done on much of the core and is still in progress due to the recent completion of drilling. Samples are being assayed in the Island Copper Assay lab for copper, moly, iron, gold, silver, lead and zinc. The drill core is stored on racks in or outside the upper core shack on the mine site.

The core was logged by G.A. Clarke and J.A. Fleming with a portion of hole E-67 logged by P.D. Burt and G.L. Holland. All are staff geologists employed by Utah Mines Ltd.

8.0 RESULTSHole R-18

This hole was drilled to test a broad low to moderate amplitude air and ground magnetic anomaly and to provide geological control in an area of very limited to no exposure. Overburden depths to 100 metres were anticipated and in fact 146 m were encountered. The area was felt to have potential for a porphyry copper deposit, but the low grades and deep overburden do not encourage further efforts.

The hole penetrated a mixture of ash and lapilli tuffs which were generally weakly altered and contained no visible economic sulphides. Clast size ranges from sub-millimetre to occasionally plus 10 cm and is the only significantly variable property in the section. Moderate to strong zeolite veining and stockworks cause the rock to closely resemble portions of the Island Copper pit.

Weak to moderate magnetite alteration was encountered as evidenced by the magnetic susceptibility measuring in the $3 - 5 \times 10^{-3}$ cgs units range. This is higher than typical for the unit drilled and is sufficient to explain the magnetic anomaly. Because the depth of burial is greater than anticipated, a larger, more diffuse magnetic source is required to fit the observed data than was originally anticipated.

No major structures are apparent although a strong zeolite stockwork with minor rotational breccias within it suggests a healed fault zone between 666 and 703.5.

The low grades and weak alterations encountered, coupled with the deep overburden severely restrict any economic potential in this area.

Hole E-067

This hole was drilled to evaluate the copper skarn potential in the Quatsino Formation in the area off the north west end of the Island Copper pit. It also was intended to provide key information on which to interpret the stratigraphy for use in locating other skarn holes.

The hole was drilled to a depth of 857.4 meters (2813 ft). It successfully penetrated through the Bonanza Volcanics at the subcrop surface into the Parson Bay Formation at a depth of 353 meters (1160 ft), into the Quatsino Formation at 693 meters (2273 ft) and into the Karmutsen Volcanics at 751 meters (2464 ft) with multiple cross-cutting porphyry dykes before hitting the main quartz-feldspar porphyry intrusive at a depth of 783 meters (2569 ft). Thin horizons of garnet +/- pyroxene skarn at the top and bottom contacts of the Quatsino are 7.2 (23 ft) and 11.3 meters (37 ft) thick respectively. The middle section is massive and bedded grey-white marble. The upper skarn horizon has no anomalous base or precious metal concentrations. The bottom skarn unit has weak to moderate chalcopyrite throughout and minor sphalerite. The section grades 0.39% Cu/16.1 meters with copper grades grade ranging from 0.25% Cu/2.7 meters to 0.76% Cu/1.5 meters at the top of the skarn. The Parson Bay contains six garnet and/or pyroxene skarn horizons, but these contain only minor concentrations of chalcopyrite and sphalerite. The altered Bonanza volcanic rocks have disseminated chalcopyrite throughout with grades in the 0.07 to 0.27% Cu range. The quartz-feldspar porphyry at the bottom of the hole is cut with multiple quartz-moly veins giving a grade of about 0.13% Mo.

The top 24.4 meters (80 ft) of the hole is overburden. From there to the Parson Bay contact at 354 meters (1160 ft) the hole intersected a sequence of ash and lapilli andesite tuffs with some volcanic breccias. These are moderately to strongly biotite, chlorite, magnetite, sericite and pyrophyllite altered. There is a zonation of the alterations from top to bottom with strong biotite-chlorite-magnetite alterations to 195 meters (640 ft), chlorite-sericite-pyrite alterations from 195 to 206 meters, strong quartz-sericite-pyrite+/-pyrophyllite alterations to a depth of 236 meters (774 ft) and quartz-chlorite-magnetite-pyrite alterations grading to strong chlorite-magnetite alterations from 236 to 354 meters (1160 ft). A hornblende porphyry dyke occurs at 90 (295 ft) - 118 meters (387 ft) that is cut by similar alterations as the surrounding wallrocks.

The first skarn horizon in the Parson Bay was intersected from 354 (1160 ft) to 364 meters (1195 ft). Epidote-pyrite altered, magnetite-pyroxene-garnet skarns compose a total of about 44 meters (144 ft) of the Parson Bay section. The upper skarns have pyroxenes more abundant than garnet while the reverse is true in the lower part of the Parson Bay. The skarns in or on the margins of the Quatsino are composed mainly of yellow to red-brown andradite garnets with little or no visible pyroxenes.

The Parson Bay sequence of tuffs, thin bedded bleached-silicified, sandy -silty sediments (porcellanite), porphyritic andesites and skarn are cut by multiple quartz veins (+/- moly) with strong magnetite-chlorite envelopes. Epidote alteration is generally weak to 481 meters (1580 ft) with pyrite in the one to five percent range. From 481 meters epidote alteration is strong with an increase in pyrite to the five to ten percent range with bands of massive pyrite. The pyrite-epidote alteration appears to be retrograde after garnet/pyroxene. The pyrite level falls back to three to five percent from about 523 meters (1718 ft) but remains high in the skarn sections. Intrusives in the Parson Bay such as the hornblende and/or feldspar porphyries and dioritoids do not have the same degree of alterations as the above, being relatively fresh or weakly chlorite-sericite altered.

The Karmutsen consists of moderately chlorite-epidote-magnetite altered intermediate to basic volcanic rocks with five to ten percent pyrite. A strong brown (biotite?) alteration of the rock is present near the contacts with crosscutting quartz-feldspar porphyry dykes. The main intrusive found from 783 meters (2568 ft) to the bottom of the hole is a reddish-orange and grey, weak to moderately chlorite-sericite altered, coarse grained quartz-feldspar porphyry. It is characterized by multiple orange zeolite (laumontite), white calcite veins and a variably pinkish (calcite?) stained matrix. The porphyry is very similar to porphyry intersected at depth in the Island Copper deposit.

Hole E-68

This hole was located to test a projection of the Quatsino limestone limit for economic copper skarn potential in the area north of the Island Copper pit. The hole intersected the anticipated geology for the most part, but the stratigraphic section was encountering approximately 120 m higher than predicted. This is attributed to offset on a previously unrecognized (off-hole) fault, but may also be due to a change in strike direction of the section. Also, the porphyritic intrusive encountered in the lower 60 metres of the hole was not anticipated at this location. No significant copper and only very minor zinc mineralization were encountered.

After penetrating 8 metres of overburden the hole encountered andesitic units of the Bonanza Formation to 126 m (414.8 ft). For the most part these are ash and lapilli tuffs with some porphyritic runs, most notably from 8 to 23 metres (25 to 77 ft). A strongly brecciated 2 metre tuff zone occurs at 86 m. Alterations consist of fairly weak chloritization with local weak epidote. Sulphides are limited to 1 - 3% pyrite without noteworthy economic sulphides.

From 126 to 505 metres the hole penetrates Parson Bay Formation rocks consisting of interlayered tuffs and sediments. The sediment sections are fine grained and generally banded and bedded. Particle size ranges from clay to sand size but is generally noted as siltstone. The sediments are more affected by alterations than the tuff sections with silica alteration ranging from very weak to none in the upper sections to strong to intense bleaching and silicification from 372 - 506 metres (1220 - 1658 ft). A short section of bedded sediments between 362 and 370 metres is strongly chloritized and brecciated.

The tuff runs in the Parson Bay section are generally fine-grained ash textured and weakly chlorite altered. 1 - 3% pyrite is present with possible weak chalcopyrite and minor sphalerite noted although no significant grades are present.

Also noted within the Parson Bay section are occasional short runs (2.4 - 6 metres) of intrusive hornblende and/or feldspar porphyries generally felt to be sills.

After a 3 metre breccia zone and 70 cm fault, the hole intersects coarse crystalline marblized limestone of the Quatsino formation from 502 - 548 m. From 525 - 548 m there are several short runs of altered tuffs or breccias with alterations consisting primarily of silicification, some skarnification with garnet and minor sphalerite, and occasional sericitization. The limestone is white to light grey and contains minor pyrite and varying amounts of fine black calcite +/- hydrocarbon veinlets.

The hole encountered quartz-feldspar porphyry from 549 metres to the bottom of the hole at 613 m. The upper section of this unit contains short (1 - 3 metre) runs of red brown garnet skarn. It is unclear if the skarn sections are in their original position with porphyry dikes penetrating the section or if they represent stoped blocks within the intrusive. The porphyry is moderately fractured and crumbly due to strong zeolite veining to 569 metres at which point it grades rapidly into hard competent unaltered rock to 613 m. Mineralization is limited to approximately 1% disseminated pyrite.

Hole E-69

This hole was drilled to determine whether skarn alteration and copper zinc mineralization intersected previously in holes E-65 and E-66 increased down dip towards the projected porphyry intrusion to the south.

The hole was drilled to a depth of 273 meters (895 ft). It started in Parson Bay tuffs at the subcrop surface at 6.1 meters (20 feet), hit skarn at the top of the Quatsino at 178 meters (585 ft), marble at 198 meters (649 ft), the bottom skarn layer at 219 meters (718 ft) and Karmutsen porphyritic basalt at 242 meters (795 ft).

The upper and lower mineralized skarn horizons in the Quatsino total 42.7 meters (140 ft) or 67% of the Formation. A banded garnet magnetite skarn horizon 3.5 meters (11.5 ft) thick, that is interpreted as part of the Parson Bay, occurs at 157.4 meters (516.5 ft). It contains chalcopyrite with grades to 0.61% Cu/3 meters. The upper Quatsino skarn from 178 - 197.8 meters (649 ft) is a massive pyritic, garnet-magnetite-copper skarn with chalcopyrite (+?) grading from 2.45% Cu/3 meters near the top to 0.31% Cu/3 meters near the bottom of the skarn and some spot highs of silver to 19.5 ppm Ag/3 meters. Pyrite content averages about 10% with local concentrations to above 20% pyrite. The lower skarn horizon from 218.9 meters (718 ft) to 242.0 meters (794 ft) is a zoned, non-magnetic, garnet-copper skarn cut by quartz veins. It has lower average copper mineralization than the top skarn but a higher individual assay of 2.93%/3 meters at the upper contact of a tuff band in the skarn. The low zinc assays for all the skarn in the hole proves that the soft black disseminated metallic mineral (locally to +1%) is not sphalerite as logged (enargite?). Molybdenite occurs variably throughout the skarns to a maximum grade of 0.48% Mo/3 meters.

The hole was stopped 30 meters into a mafic porphyry with a patchy brown (biotite?) alteration. It contains chalcopyrite and molybdenite with grades in the 0.2 - 0.3% Cu and 0.010 and 0.050% Mo ranges.

Hole W-5

This hole was originally drilled to 62 metres in 1983 to test for near surface disseminated copper mineralization and extended to 1206 ft. (368 meters) in the current program to investigate the underlying Quatsino formation for copper/zinc skarn potential. Strong skarn alterations were encountered throughout the hole with tan, brown and red brown garnet, silicification and some epidote alterations. The Quatsino limestones are completely replaced by garnet skarn which contains significant quantities of copper and minor silver and moly. The andesitic volcanics of the underlying Karmutsen contain sections with moderate molybdenum grades but do not represent significant economic target. This hole indicates significant potential for an economic copper deposit.

The first 62 metres of this hole are reported in assessment report #84-349-12271. From 62 - 186 metres the hole cuts a sequence of interlayered fine grained bedded sediments and ash tuffs. The sequence is moderately chlorite altered to 144 metres with increased silicification and spotty tan garnet replacements from 144 - 186 metres. A brownish biotite stain is common. A 1.4 metres run of quartz porphyry is noted at 119 metres.

From 186 - 194 metres is a complex sequence consisting of massive red brown garnet skarn, quartz feldspar porphyry, intrusive breccia and strongly skarnified sediments. Underlying this is a 4 metre section of hornblende porphyry before another section of interlayered tuffs and sediments from 198 - 216 metres. This last unit is moderately chlorite altered with patchy tan to red brown alterations. Minor moly is noted.

The section from 216 to 288 metres likely represents the original Quatsino formation where the limestone sections from 216 to 229 metres and 259 - 288 metres are converted to massive garnet skarn. The upper run of skarn is relatively un-mineralized and contains significant quartz veining. The lower run contains very significant copper mineralization with grades over 2% in 3 metre runs. Between the two massive garnet sections is a run of moderately chlorite altered tuffs with patchy garnet alteration. Minor moly and trace chalcopryite mineralization is noted in this section.

Underlying the skarnified Quatsino formation from 288 - 368 metres are volcanics of the Karmutsen which are megascopically andesites with moderate to strong quartz and quartz/moly veining throughout. These rocks are moderately chlorite and sericite altered. The rocks are fine-grained with a porphyritic section from 305 - 320 metres. The moly in this section does not present an economic target.

Hole E-070

This hole was drilled north of the west end of Bay (Frances) Lake to test the deep skarn potential of the Quatsino. It is located along strike to the west from hole E-067 close to the projected extension of the Island Copper quartz-feldspar porphyry intrusive dyke system.

The hole was drilled to a depth of 773 meters (2535 ft). It penetrated from the Bonanza tuffs at the subcrop surface at 7.3 meters (24 ft) into the Parson Bay Formation altered tuffs and thin bedded sediments at 245 meters (803 ft), into the skarnified and marblized Quatsino Formation at 697 meters (2287 ft), and into mixed quartz-feldspar porphyry and granitic intrusives at a depth of 758 meters (2487 ft). The skarn and mineral development in this hole is weak with only 20.3 meters of garnet skarn present and copper mineralization grading in the 0.2 - 0.6% Cu range. Silver values in the skarns range from 1.2 - 5.5 ppm Ag while zinc is low. The tuffs to 245 meters have widespread disseminations and veins of sphalerite with grades up to 1.9% Zn/3 meters. The section from 189 (620) to 244 meters (800 ft) has assays in the 0.9 - 1.9% Zn range. Silver assays in the tuffs are generally in the 0.5 - 1.5 ppm Ag range, but spot highs occur to 16 ppm Ag.

The hole intersected 7.3 meters of overburden. The Bonanza massive and bedded andesite ash and lapilli tuffs are moderately to strongly chlorite-epidote altered. The rock is characterized by a pinkish mineral occurring as envelopes on epidote veins (thulite?) through much of the section. Calcite, zeolite, epidote, pyrite, and sphalerite veins are common. Sphalerite mineralization is locally strong as noted above. Pyrite is generally low in the one to three percent range. The Parson Bay rocks consist of alternating sediment and tuff horizons. Black, grey and green striped, thin bedded, weakly calcareous, carbonaceous, weakly silicified and bleached, sand-silt sized argillites occur interbedded with tuffs to about 359 meters (1179 ft). Silicification and bleaching of the argillites increases rapidly from that point to moderate to intense levels (porcellanite) with a decrease in epidote alteration and an increase in pyrite content to an average of about five percent. From 518 meters (1700 ft) the argillites are skarnified/hornfelsed with brown garnet and pyroxene(?) alterations. Bedding in the Parson Bay is from 0 to 60 degrees to the core axis in the upper parts and 70 to 80 degrees below. Several hornblende porphyry layers occur within the section characterized by red (hematite?) envelopes on pyrite veinlets.

The skarn horizons in the Quatsino range from reddish garnet skarns at the top to greenish-yellow in the middle of the Quatsino to intermixed yellow-green and reddish-brown garnet skarn at the bottom. The pyrite content of the skarns is generally high at the five to ten percent levels. In this hole some of the Quatsino has been replaced by porphyry. The thickness of the Quatsino is uncertain as the bottom is an intrusive contact. However, the down hole thickness of Quatsino intersected in this hole of 61 meters compares well with the 58.2 meters intersected in hole E-067. Thus, it appears that the bottom of the Quatsino is at or close to the contact with the porphyry. Most of the Quatsino in this hole is a medium to coarse grained, grey-white marble.

The hole bottomed in the intermixed chlorite-epidote altered coarse grained quartz-feldspar porphyry and granitic rock at 772.7 meters.

9.0 DISCUSSION

The hole R-18 established that the overburden thickness in the southeast corner of the mineral property is 24 meters thicker than the 122 meters anticipated. The magnetite content of the core is sufficient to explain and ground magnetic anomaly. The tuffs encountered closely resemble rocks found just beyond the ore zone at Island Copper. However, the weak alterations and mineralization, and thick overburden appear to make economic targets in the immediate area unlikely.

The skarn holes all intersected garnet skarns in the Quatsino Formation to various extents with significant copper mineralization encountered in holes E-69 and W-5 in the area northwest of the Coal Harbour Road and Mine Road junction. The three deep holes appear to have penetrated the entire Quatsino section and intersected quartz-feldspar porphyry intrusions just below the lower Quatsino contact in the hole E-67, intermixed with and partially replacing the marble at the contact in hole E-68 and both intruding the Quatsino with some marble replaced by porphyry and at the lower contact in E-70. The Quatsino appears to have a fairly consistent thickness of about 67 meters. The garnet skarn in all the holes occurs at the margins of the Quatsino with marble (or skarnified tuff in the case of W-5) centers. Garnets tend to be the red-brown variety at the margins and to grade to the lighter yellow-green variety within the marble. The economic mineralization in holes E-69 and W-5 is chalcopryite and a black mineral yet to be identified (enargite?) with copper grades to almost 3% Cu over three meter lengths. The zinc content in the skarn in these holes is low indicating that the holes are closer to the intrusive than holes E-65/66 to the northeast which had high zinc compared to copper.

The alteration of the Parson Bay rocks in the three deep holes increases with depth with increasing silicification-bleaching of the sedimentary layers. The tuffs are less silicified. A lateral variation in alteration in the deep holes is apparent with alterations increasing from the weakest in E-68 to the most intense in hole E-67. Epidote-pyrite altered, pyroxene-magnetite-garnet skarn horizons occur in the highly altered Parson Bay sediments in hole E-67, minor skarn/hornfels is present in E-70 and no skarn is identified in E-68. The alterations in hole E-67 appear to differ from the other two holes in that quartz-magnetite alteration is prevalent in the upper part of the Parson Bay. This, along with the strong biotite alteration at the top of the hole in the Bonanza tuffs leading downward in to a strong sericite-pyrite plus pyrophyllite alteration zone indicates proximity to the hydrothermal center. The Parson Bay rocks in holes E-69 and W-5 also show strong hydrothermal alterations and skarnification with cross cutting quartz-feldspar porphyry and mafic porphyry dykes.

10.0 CONCLUSIONS

The three deep skarn holes indicate that mineralized skarn along the Island Copper - Bay (Frances) Lake trend is weakly developed. Potential for a deep economic copper skarn has been significantly reduced. Further study of the results is required to determine the value of further deep drilling along this trend.

Holes E-69 and W-5 in the northwest of the property have shown an increase in copper mineralization with some significant copper assays. Potential for a relatively near surface copper skarn has been enhanced. Further drilling is warranted to determine if an economic copper skarn deposit exists in the area.

11.0 COST STATEMENTCONTRACTOR COSTS

Footage Rate Cost	\$242,964
Other Costs:	
Supplies and Casing	5,127
Field Costs - Operating	4,313
Field Costs - Non-Operating	715
Extra Labour	375
Extra Move Cost (R-18)	1,853
Cat Time - Utah Account	1,955
Extra Mob - Demob	1,401
	<u>\$258,701</u>
Cost Reduction for Over 5000 ft.	-1,250
Cost Reduction for over 10,000 ft.	-130
Total Contractor Cost to Date:	<u>\$257,322</u>

UTAH COSTS

Computer Rental	\$ 800
Vehicle Rental	1,712
Supplies	1,569
Assays (627 Samples)	13,470
Overhead (25% of Labour)	4,193
Core Shack Labour	<u>16,774</u>
Total Utah Cost:	<u>\$ 38,518</u>

TOTAL COST:	<u>\$295,840</u> =====
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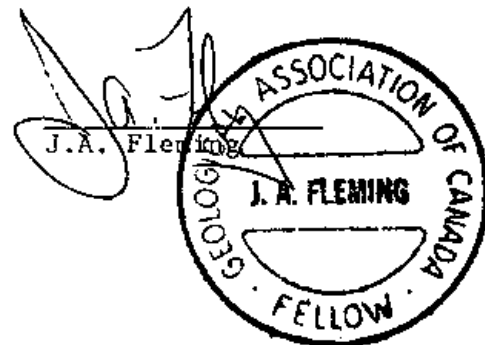
Total Meters Drilled:	3127
Overall Cost per Meter:	\$94.61

STATEMENT OF QUALIFICATIONS

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

J.A. Fleming - Chief Geologist - Island Copper Mine, Utah Mines Ltd.

1. B.Sc. (Major Geology) 1971 from McGill University.
2. Employed as a geologist continuously since June, 1968, and presently Chief Geologist, Island Copper Mine, Utah Mines Ltd.
3. Fellow of the Geological Association of Canada since 1974.



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 geophysicists; 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.

Island Copper Mine
ISLAND

DRILLHOLE/TRVERSE : W-005 (CONTINUED)

F - I N T E R V A L -		CORE	#	TYP	QAL	TEX-	GRAIN	FRAC-	STRUCTUR-1	ALTERATION	MINS	ORE-TYPE	MINS
X L (GIMTS = FT)		RECOV-	M	ROCK	FYING	MIN	TURES	CHARACS	TURE	H	H	H	H
E A		ERY	1	TM	TM	MAT	TX	TX	F	D	%	M	
Y B F R O M - TO		(FT. I)	X	TYPE	1	2	CM	1	2	F	F	D	P
X F		ROCK	FOR	EN	RT	TH	BM	TX	TX	S	R	S	D
E L		QUAL	MEM	V	Q	LC-	J	3	4	D	N	H	/
Y B		DESIG	AGE	COL				R	D	P	C		
R	977.0	1000.5	BY LT BY QZ & QZ/PY VNS, WK ZEO VNS & PY +/- CALC FLID FRACS.										
R	977.0	1000.5	MOD BRN BID? STN, ESP DN QZ & PY CALC VLT. MOD SHRD C/W MOD MD										
R	977.0	1000.5	FF & COAT MD. WK SER ENV & BL/GN SER REPL 989.										
N	990.0	1000.5	X	KMBA	VF			EQ	AH	2	3	3	3
L				R3	AS			VV	SH			30	24
												E3	22
												ZE	6+
												D?	
P	1000.5	1049.5		PPFX	QZ			P/	J	J	5		P
L				KM	R2	6A							B
												22	99
												ZE	6+
R	1000.5	1049.5	STR/INTENS SER ALT'D ROCK. MED BY HLY FRAC'S INTRUSIVE, MOSTLY										
R	1000.5	1049.5	PORPH'IC BUT POSS OCC FBTL. IN PLACES A DEFINITE INTRUSIVE TXT										
R	1000.5	1049.5	IS NOTED, BUT IN MANY CASES TXT IS OBSCURED BY ALT'M & FRAC'S,										
R	1000.5	1049.5	ROCK IS FINE, EVEN GRAINED WITH 10-20% CM SIZE DIFFUSE LARGE										
R	1000.5	1049.5	GRAINS (PHENOS OR CLASTS?) 3-5% PY AS FF/VNS TO 1CM, & MINOR										
R	1000.5	1049.5	DISS.										
P	1049.5	1206.0		KMBA				QV1	AH	VV	2	3	3
L				R3	36								5
													P
													2
													VQ
													60
													V6
													E1
													22
													Q1
													ZE
													6+
													D?
R	1049.5	1206.0	THIS ENTIRE SECTION IS A UNIFORM FG DK GN VOLCANIC, PROB FG										
R	1049.5	1206.0	BASALT/ANDES. STR CUT BY SMOKY BY QZ VNS 5-20MM. DENSE, FAIRLY										
R	1049.5	1206.0	COMPACT CORE. LOW FRAC DENS WITH FEW MAJOR SHRS. SHORT RUNS										
R	1049.5	1206.0	MOD SER ALT. SOME SEGS HAVE VS NO IN QZ VNS. NO VIS CPY. PY										
R	1049.5	1206.0	VLT & FF C/W OCC PY VN 1-3CM. BOTH PY & QZ VNS TEND TO RUN										
R	1049.5	1206.0	ABT 60 DEG. TO C/A BUT MOD VARIABLE. SILS IN QZ VN 1126.										
R	1049.5	1206.0	SHORT LT BY INTR RUNS 1137-38, 1158-59, 1182-83										
N	1060.0	1066.0	X	KMBA				QV2	AH	VV	2	3	3
L				R3	36								5
													D
													2
													VQ
													60
													V6
													E1
													22
													Q1
													ZE
													6+
													D?
N	1070.0	1080.0	X	KMBA				QV2	AH	VV	2	3	3
L				R3	36								5
													D
													2
													VQ
													60
													V6
													E1
													22
													Q1
													ZE
													6+
													D?
N	1098.0	1106.0	X	KMBA				QV2	AH	VV	2	3	3
L				R3	36								1
													D
													6
													F/
													5
													V6
													E1
													22
													Q1
													ZE
													D+
													D?
N	1137.0	1136.0	X	INBX	QZ	FX		PP	SH				2
L													N
													3
													F/
													30
N	1158.0	1159.0	X	PPQF	QZ	FX	BI=	PP					N
L													
N	1182.0	1183.0	X	PPQF	QZ	PX		PP					N
L													

S U M M A R Y R E M A R K S

0-202
DRILLED 1983
202-218
6N/6Y SER CHL ALT'D ASH TUFF W MINOR GARNET ALT.
218-220

Island Copper Mine
ISLAND

DRILLHOLE/TRVERSE : M-005 (CONTINUED)

S U M M A R Y R E M A R K S

MODERATE FAULT ZONE C/W PY. 600GE, BXA @ 30 DEG. TO CA
220-473

INTER LAYERED ASH-FINE LAP TUFFS AND BEDDED SEDS. THE ENTIRE
SECTION IS MED-DK GY/BN, CHL ALT'D, MOD-STR CUT BY WH-LT GY QZ
VNS UP TO SEVERAL CM'S & MOD PALE ZEO +/- CALC VNS.

NO COMMON IN QZ VNS. PY VNS & FRAC FLNG COMMON (3-5%). ECON
SULPHIDES MINIMAL. A CHOC BRN STM FORMS ENVELOPES & OCC PERV
STM THROUGHOUT MUCH OF SECT, BUT ID IS UNCERTAIN (HEM, BIO OR
GILS? - PROB BIO)

391-396.5

SHORT RUN QZ PORPHYRY C/W MK CHL ALT'D BRN STM MATR. QZ EYES
TO 1CM

445-449.5

GY QZ BXA. 1-2CM QZ & MINOR ALT'D TUFF FRAGS IN PYRITIC, CHL
ALT'D FG MATRIX.

473-484

SILIC CHL ALT'D ASH TUFF, MOD QZ & QZ NO VND AS 220-473

484-502

TAN GARNET SKARNIFIED BDD SEDIMENTS WITH MOD PY, NO, MINIMAL
CU, ZN.

502-609

MOD SLCS FG BEDDED SEDS AND TUFFS. WEAK TO MOD CHL ALT &
MOD/STR QZ VNS C/W MINOR MO. PATCHY GARNETS & EPI (MK). MOD
WH ZEO +/- CALC VNG.

220-609

THIS ENTIRE SECTION OF FINE GRAINED ROCKS HAS BEEN
DIFFERENTIATED LARGELY ON THE RECOGNITION OF BEDDING IN
MODERATELY ALT'D ROCKS, WITH NON-BEDDED (OR NON-BANDED)
SECTIONS CALLED TUFFS. THIS DISTINCTION MAY NOT ALWAYS BE
CORRECT, ESPECIALLY WHERE BEDDING IS OBSCURED BY ALTERATIONS.

609-614

DARK RED/BRN GARNET SKARN WITH MOD CHLORITE VEINS & SPOTS
SLIGHTLY BANDED SKN'D PB SEDS.

614-620

BRN/GRY BFP WITH 2-3% BLK BIO PHENOS, 1CM QZ EYES & 5MM FELDSP
PHENOS IN APATITIC BRN STAINED MATR.

620-622

EPI/PYRITE RICH INTR BXA WITH SOME COARSE GARNET CLASTS FROM
UNDERLYING UNIT.

622-637

SLIGHTLY BANDED INTENSELY GARNET ALTERED BANDED PB SEDS GRADING
INTO EPI/CHL/GARNET ALT'D SEDS/TUFFS 631-637.

637-648

HORNBLNDE (+PYROX?) PORPHYRY. DARK GRN PHENOS TO 2CM IN LT
GRN MATRIX.

648-709

MODERATE CHLORITE GARNET ALTERED FINE GRAINED SEDIMENTS & TUFF
WITH PATCHY TAN TO RED BROWN GARNET ALTERATION. MODERATELY QTZ
VEINED WITH SOME MOLY.

709-752

GARNET/QUARTZ SKARN. TOTALLY ALTERED TO TAN/BROWN GARNET WITH

DRILLHOLE/TRVERSE : W-005 (CONTINUED)

S U M M A R Y R E M A R K S

10% QZ VEINS/VEIN FRAGMENTS. MOD PY, BUT MINIMAL CPY.

752-836

FG MED-DK BRN TUFFS WITH MINOR PATCHES GARNET ALT'N, MOD QZ
VNS., SOME MOLY, V LITTLE CPY. MAGNETIC TO 760. MOD ZEOLITE
THROUGHOUT.

736-945

MASSIVE RED BROWN COARSE GRAINED GARNET SKARN. CONSID. MAG TO
850, WITH 2% CPY. CPY NOT VIS 750-945, BUT CU IS PRESENT. MOD
QZ VNS & WK CALC. PATCHES TO 10 FT. WITH INCR CHLORITE +/-
MAG.

945-1206

FINE GRAINED DK BRN VOLCANIC, PROBABLY INTRUSIVE. MOD-STR CUT
BY QZ & ZEO VEINS, OFTEN WITH MOLY. MINOR GILS WITH QZ VNS.

1000-1050

SECTION FROM 1000-1050 IS STRONGLY SERICITIZED & FRACTURED WITH
VAGUE PORPHYRY & INTRUSIVE TEXTURES LARGELY OBSCURED BY
ALTERATION

DIAMOND DRILL HOLE ASSAYS

10
9:54 FRIDAY, FEBRUARY 20, 1987

HOLE 4W-005

FROM	TO	CU PCT	MO PCT	FE PCT	AU PPM	AG PPM	PB PCT	ZN PCT	TSS
22.0	27.0	0.12	0.018	.	.	.	.	.	.
27.0	37.0	0.13	0.014	.	.	.	.	.	.
37.0	47.0	0.14	0.044	.	0.020	0.640	0.002	-0.010	37793
47.0	57.0	0.12	0.028	.	.	.	.	.	.
57.0	67.0	0.09	0.017	.	.	.	.	.	.
67.0	77.0	0.13	0.016	.	0.030	0.480	.	.	37796
77.0	87.0	0.10	0.010	.	.	.	0.004	-0.010	.
87.0	97.0	0.13	0.018	.	.	.	.	.	.
97.0	107.0	0.15	0.023	.	0.030	0.640	0.003	0.010	37799
107.0	117.0	0.14	0.014	.	.	.	.	.	.
117.0	127.0	0.11	0.009	.	.	.	.	.	.
127.0	137.0	0.17	0.018	.	0.030	0.870	0.005	0.010	38302
137.0	147.0	0.13	0.010	.	.	.	.	.	.
147.0	157.0	0.12	0.009	.	.	.	.	.	.
157.0	167.0	0.11	0.020	.	0.040	0.720	0.003	0.010	38305
167.0	177.0	0.11	0.023	.	.	.	.	.	.
177.0	187.0	0.13	0.015	.	.	.	.	.	.
187.0	197.0	0.24	0.052	.	0.040	1.000	0.004	0.010	38308
197.0	202.0	0.16	0.023	.	0.030	0.780	0.003	0.010	38309
200.0	210.0	0.18	0.012	5.7	-0.010	1.250	0.002	0.004	4129
210.0	220.0	0.19	0.011	8.1	.	.	0.003	0.012	4321
220.0	230.0	0.19	0.019	6.5	.	.	0.003	0.009	4322
230.0	240.0	0.20	0.017	5.4	.	.	0.002	0.005	4323
240.0	250.0	0.16	0.013	5.6	0.020	1.200	0.002	0.004	4130
250.0	260.0	0.19	0.017	7.1	.	.	0.003	0.007	4324
260.0	270.0	0.23	0.019	6.1	.	.	0.004	0.006	4325
270.0	280.0	0.20	0.023	5.1	.	.	0.003	0.002	4326
280.0	290.0	0.13	0.020	5.1	-0.010	0.760	0.001	0.003	4131
290.0	300.0	0.20	0.025	5.3	.	.	0.004	0.003	4327
300.0	310.0	0.17	0.024	5.3	.	.	0.002	0.003	4328
310.0	320.0	0.22	0.005	6.4	.	.	0.004	0.002	4329
320.0	330.0	0.13	0.020	4.3	-0.010	0.810	0.002	0.003	4132
330.0	340.0	0.14	0.024	4.3	.	.	0.002	0.004	4330
340.0	350.0	0.15	0.018	4.2	.	.	0.005	0.005	4331
350.0	360.0	0.17	0.019	4.0	.	.	0.002	0.003	4332
360.0	370.0	0.22	0.022	5.0	-0.010	1.180	0.001	0.004	4133
370.0	380.0	0.18	0.020	4.2	.	.	0.002	0.004	4333
380.0	390.0	0.16	0.022	3.9	.	.	0.002	0.003	4334
390.0	400.0	0.09	0.018	3.8	.	.	0.002	0.003	4335
400.0	410.0	0.16	0.032	4.1	0.010	1.060	0.022	0.004	4134
410.0	420.0	0.21	0.023	4.5	.	.	0.002	0.005	4336
420.0	430.0	0.17	0.016	3.8	.	.	.	.	4337
430.0	440.0	0.13	0.019	4.1	.	.	.	.	4338
440.0	450.0	0.09	0.020	4.7	0.010	0.290	0.001	0.003	4135
450.0	460.0	0.10	0.018	4.1	.	.	.	.	4339
460.0	470.0	0.08	0.015	5.0	.	.	.	.	4340
470.0	480.0	0.12	0.013	4.3	.	.	.	.	4361
480.0	490.0	0.12	0.015	9.6	-0.010	0.960	0.003	0.015	4136
490.0	500.0	.	.	.	.	.	.	.	4362
520.0	530.0	0.13	0.017	4.9	-0.010	1.160	0.001	0.004	4137
560.0	570.0	0.11	0.019	3.4	-0.010	1.000	0.001	0.006	4138
600.0	610.0	0.18	0.016	4.0	-0.010	1.490	0.002	0.008	4139

DIAMOND DRILL HOLE ASSAYS

9:54 FRIDAY, FEBRUARY 20, 1967

HOLE#W-005

FROM	TO	CU PCT	MO PCT	FE PCT	AU PPM	AG PPM	PB PCT	ZN PCT	TAG
640.0	650.0	0.16	0.022	4.2	-0.010	1.350	0.001	0.005	4140
680.0	690.0	0.12	0.074	4.1	-0.010	1.050	0.003	0.010	4141
690.0	700.0	0.10	0.012	4.9	-0.010	0.910	0.001	0.006	4142
700.0	710.0	0.09	0.012	6.0	-0.010	0.470	0.002	0.007	4143
710.0	720.0	0.12	0.019	6.6	-0.010	0.990	0.002	0.011	4144
720.0	730.0	0.10	0.015	10.0	0.010	0.970	0.003	0.011	4145
730.0	735.0	0.11	0.012	10.2	0.050	0.860	0.005	0.022	3416
735.0	740.0	0.11	0.009	10.3	-0.010	0.710	0.004	0.011	4146
740.0	745.0	0.11	0.008	10.9	-0.010	0.900	0.005	0.012	4147
745.0	750.0	0.14	0.011	12.6	0.030	0.940	0.005	0.021	3417
750.0	760.0	0.14	0.012	9.0	-0.010	0.970	0.004	0.014	4148
760.0	770.0	0.24	0.025	4.4	-0.010	1.480	0.002	0.010	4149
770.0	780.0	0.18	0.028	3.3	-0.010	1.130	0.002	0.005	4150
780.0	790.0	0.15	0.044	3.9	-0.010	1.430	0.002	0.005	4151
790.0	800.0	0.17	0.041	4.3	-0.010	1.120	0.002	0.010	4152
800.0	810.0	0.15	0.064	4.0	-0.010	0.740	0.001	0.004	4153
810.0	820.0	0.15	0.029	5.1	-0.010	0.870	0.001	0.002	4154
820.0	830.0	0.16	0.049	5.8	0.010	1.520	0.003	0.006	4155
830.0	840.0	0.49	0.020	.	-0.065	4.840	-0.010	0.020	4088
840.0	850.0	2.04	0.005	.	-0.065	11.300	-0.010	0.310	4089
850.0	860.0	0.71	0.024	.	-0.065	6.450	-0.010	0.020	4090
860.0	870.0	1.35	0.012	.	-0.065	11.950	-0.010	0.040	4091
870.0	880.0	1.13	0.009	.	-0.065	8.390	-0.010	0.040	4092
880.0	890.0	0.63	0.017	.	-0.065	6.130	-0.010	0.020	4093
890.0	900.0	0.61	0.065	.	-0.065	5.160	-0.010	0.020	4094
900.0	910.0	0.50	0.018	.	-0.065	4.840	-0.010	0.020	4095
910.0	920.0	0.28	0.084	.	-0.065	2.910	-0.010	0.010	4096
920.0	930.0	0.25	0.047	.	-0.065	3.870	-0.010	0.020	4097
930.0	940.0	0.41	0.007	.	-0.065	12.270	0.160	0.120	4098
940.0	950.0	0.35	0.032	.	-0.065	4.200	-0.010	0.010	4099
950.0	960.0	0.14	0.022	5.1	-0.010	1.870	0.006	0.023	4501
960.0	970.0	0.10	0.039	4.1	-0.010	0.510	0.001	0.004	4156
1000.0	1010.0	0.07	0.010	3.4	-0.010	0.120	0.001	0.003	4157
1040.0	1050.0	0.07	0.010	3.8	-0.010	0.130	0.001	0.002	4158
1080.0	1090.0	0.08	0.017	6.2	-0.010	0.410	0.001	0.004	4159
1120.0	1130.0	0.07	0.015	5.9	-0.010	0.380	0.001	0.003	4160
1160.0	1170.0	0.10	0.047	6.0	-0.010	0.420	0.001	0.004	4161

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE # : W-5

DATE: DEC 17/86

LOGGED BY: MB

Footings (Ft)		INTERVAL		CORE Rec. # (ft)	% Rock	# of PIECES (ft)	R. Q. D.		F. of FACETS	F. of FACETS
From	To	INCHES	COM PARABLE				4"			
200	202	24	24	14	58	0		0		
202	212	120	144	126	105	68		57		
212	222	120	264	120	100	58		48		
222	223	12	276	14	117	11		92		
223	233	120	396	120	100	64		53		
233	243 1/2	126	522	122	97	55		44		
243 1/2	254	126	648	119	94	67		53		
254	264	120	768	120	100	76		63		
264	274	120	888	118	98	64		52		
274	284	120	1008	120	100	78		65		
284	294	120	1128	120	100	77		64		
294	304	120	1248	122	102	119		97		
304	314	120	1368	120	100	106		88		
314	324	120	1488	117	97.5	103		86		
324	334	120	1608	118	98	98		82		
334	344	120	1728	125	104	115		96		
344	354	120	1848	114	95	103		86		
354	364	120	1968	115	96	80		67		
364	374 1/2	126	2094	116	92	89		71		
374 1/2	384 1/2	120	2214	124	103	109		91		
384 1/2	386 1/2	24	2238	18	75	4		17		
386 1/2	396	114	2352	111	97	94		82		
396	406	120	2472	122	102	86		72		
406	416	120	2592	123	102.5	95		79		
416	426	120	2712	122	102	94		78		
426	436	120	2832	120	100	77		64		
436	446	120	2952	120	100	85		71		
446	456	120	3072	126	105	111		92.5		
456	462 1/2	78	3192	68	87	42		54		
462 1/2	466 1/2	48	3312	58	121	24		50		
466 1/2	476	114	3432	112	98	83		73		
476	486	120	3552	113	94	75		62.5		
486	496	120	3672	120	100	72		60		
496	506	120	3792	117	97.5	104		87		
506	516	120	3912	124	103	65		52		

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE # : W-5

DATE: Dec 17/86

LOGGED BY: MB

FOOTINGS (FT)		INTERVAL		CORE Rec. #	% Recy	STRENGTH (PIECES)	DEPTH (INCHES)	R. Q. D.	F. OF FOOT	F. OF FOOT
FROM	TO	INCHES	FEET							
516	526	120	3912	118	98	100		83		
526	536	120	4032	121	101	105		87.5		
536	546	120	4152	120	100	85		71		
546	556	120	4272	120	100	84		70		
556	566	120	4392	117	97.5	85		71		
566	576	120	4512	123	102.5	106		88		
576	586	120	4632	116	97	89		74		
586	596	120	4752	122	102	96		80		
596	606	120	4872	120	100	107		89		
606	616	120	4992	111	92.5	70		58		
616	626	120	5112	122	102	75		62.5		
626	636	120	5232	120	100	66		55		
636	642	72	5304	69	96	45		62.5		
642	652	120	5424	118	98	77		64		
652	662	120	5544	120	100	72		60		
662	673½	138	5682	135	98	90		65		
673½	683½	120	5802	103	86	48		40		
683½	693	114	5916	119	104	74		65		
693	694½	18	5934	20	111	1½		64		
694½	704	114	6048	114	100	50		44		
704	714	120	6168	106	88	40		33		
714	724	120	6288	125	104	103		86		
724	734½	126	6414	118	94	53		42		
734½	745	126	6540	118	94	57		45		
745	755	120	6660	120	100	14		12		
755	765½	126	6786	112	89	78		62		
765½	775½	120	6906	122	102	63		52.5		
775½	785½	120	7026	124	89	74		62		
785½	794	102	7128	100	98	71		70		
794	804	120	7248	120	100	81		67.5		
804	814	120	7368	120	100	78		65		
814	824	120	7488	119	99	75		62.5		
824	834	120	7608	115	96	73		61		
834	843	108	7716	100	93	58		54		
843	852	108	7824	108	100	87		81		

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE # : W-5

DATE : DEC 17/86

LOGGED BY : MB

FOOTAGES (FT)		INTERVAL		CORE REC. (IN)	% REC.	No. of Pieces	Length of Pieces (inches)	R. Q. D.	# of Fragments	FR LOSS
FROM	TO	INCHES	CUM. INCHES							
852	861	108	7932	110	102		56	52		
861	871	120	8052	102	85		45	37.5		
871	880	108	8160	115	106		85	79		
880	889	108	8268	110	102		81	75		
889	899	120	8388	109	91		83	69		
899	906	84	8472	94	112		84	100		
906	914	96	8568	82	85		73	76		
914	919	60	8628	60	100		28	47		
919	926	84	8712	90	107		67	80		
926	936	120	8832	117	97.5		97	81		
936	946	120	8952	118	98		98	82		
946	956	120	9072	120	100		62	52		
956	966	120	9192	114	95		55	46		
966	976	120	9312	120	100		63	52.5		
976	980	48	9360	46	96		8	17		
980	988 1/2	102	9462	99	97		54	53		
988 1/2	996	90	9552	92	102		48	53		
996	1002	72	9624	68	94		22	30.5		
1002	1012	120	9744	120	100		0	0		
1012	1022	120	9864	130	108		11	9		
1022	1026	48	9912	46	96		0	0		
1026	1036	120	10,032	126	105		29	24		
1036	1046	120	10,152	118	98		48	40		
1046	1056	120	10,272	120	100		57	47.5		
1056	1066	120	10,392	118	98		88	73		
1066	1076	120	10,512	123	102.5		26	22		
1076	1086	120	10,632	102	85		55	46		
1086	1096	120	10,752	126	105		48	40		
1096	1106	120	10,872	120	100		44	37		
1106	1116	120	10,992	120	100		91	76		
1116	1126	120	11,112	120	100		92	77		
1126	1136	120	11,232	120	100		69	57.5		
1136	1146	120	11,352	120	100		48	40		
1146	1156	120	11,472	120	100		98	82		
1156	1166	120	11,592	120	100		95	79		

MAGNETIC SUSCEPTIBILITY

HOLE: W-5

INTERVAL START	+ 2'	+ 4'	+ 6'	+ 8'	INTERVAL AVERAGE (CGS UNITS)
0 -10					
-20					
-30					
-40					
-50					
-60					
70					
80					
90					
100					
110					
120					
130					
140					
150					
160					
170					
180					
190 START					
200 -	.02	.00	.01	.08	.03
210 .03	.01	.04	.05	.01	.03
220 .01	.00	.03	.03	.04	.02
230 .17	.12	.03	.10	.11	.53
240 .33	.11	.03	.08	.12	.13
250 .08	.02	.05	.06	.04	.05
260 .12	.08	.08	.10	.12	.10
270 .10	.64	.05	.03	.02	.17
280 .00	.00	.01	.04	.00	.01
290 .08	.04	.00	.04	.00	.03
300 .02	.02	.04	.05	.16	.06
310 .18	.00	.15	.13	.26	.12
320 .17	.00	.00	.07	.01	.05
330 .00	.00	.00	.00	.00	.00
340 .02	.03	.00	.05	.22	.06
350 .07	.02	.22	.43	.38	.22
360 .35	.46	.14	.34	.26	.31
370 .59	.07	.01	.02	.00	.14

MAGNETIC SUSCEPTIBILITY

HOLE: W-5

DEPTH START	+ 2'	+ 4'	+ 6'	+ 8'	INTERVAL AVERAGE (CGS UNITS)
380-.00	.00	.00	.04	.37	.08
390-.00	.01	.04	.00	.01	.01
400-.02	.06	.01	.04	.01	.03
410-.15	.16	.09	.04	.15	.12
420-.39	.07	.01	.22	.08	.15
430-.10	.23	.00	.31	.03	.13
440-.02	.00	.00	.00	.00	.00
450-.00	.19	.27	.02	.00	.10
460-.00	.00	.00	.00	.00	.00
470-.00	.00	.00	.00	.04	.01
480-.01	.48	.02	.44	.25	.24
490-.01	1.2	.00	.02	.00	.25
500-.00	.00	.00	.22	.00	.04
510-.03	.00	.00	.00	.09	.02
520-.06	.00	.10	.36	.29	.16
530-.46	.48	.03	.02	.00	.20
540-.00	.00	.00	.01	.02	.01
550-.01	.04	.38	.20	.11	.15
560-.01	.07	.00	.01	.00	.02
570-.00	.37	.05	.11	.26	.16
580-.07	.01	.01	.00	.06	.03
590-.10	.00	.00	.00	.00	.02
600-.00	.02	.00	.00	.03	.01
610-.06	.07	.02	.01	.00	.03
620-.00	.03	.07	.02	.05	.03
630-.39	.09	.03	.00	.02	.11
640-.02	.01	.11	.06	.07	.05
650-.36	1.1	.01	.07	.01	.31
660-.78	.02	.03	.03	.24	.22
670-.04	.59	.00	.02	.04	.14
680-.02	.03	.04	9.9	.06	2.01
690-.13	.01	.90	.03	.19	.25
700-.29	.01	.06	.00	.06	.08
710-.01	.00	.02	.04	.06	.02
720-.06	.07	.03	.00	.00	.03
730-.16	.09	.02	.06	.00	.07
740-.04	.00	.10	.10	.91	.23

MAGNETIC SUSCEPTIBILITY

HOLE: W-5

DEPT START	+ 2'	+ 4'	+ 6'	+ 8'	INTERVAL AVERAGE (G.S. UNITS)
150 .81	.72	.41	.16	.55	.53
160 .28	.29	.48	.01	.90	.39
170 .45	.04	.02	.15	.05	.14
180 .11	.21	.50	.22	.02	.21
190 .02	.08	.00	.04	.00	.02
800 .01	.00	.00	1.1	.04	.23
810 .10	.07	.06	.02	.06	.06
320 .04	.04	.21	.21	1.0	.30
330 .86	.04	.03	1.1	.56	.52
340 14.	32	38	.20	30	26.8
350 5.4	.29	.07	.10	.15	1.2
360 .09	.09	.39	.14	.08	.15
370 3.5	2.0	.03	.18	.41	1.22
380 .16	.02	.03	.06	.80	.21
390 3.7	3.8	1.0	9.1	.15	3.55
400 .33	1.0	.95	5.5	13	4.16
410 2.3	.55	.23	.64	.78	4.9
420 .13	.14	.20	6.6	H.H. > 100	21.4
430 10	11	31	H.H. > 100	3.8	31
440 2.1	4.6	5.7	1.1	.16	2.73
150 .00	.03	.14	.06	.05	.06
160 .02	.18	.00	.00	.01	.04
170 .50	.19	.02	.00	.02	.14
180 .03	.15	.16	.39	.36	.22
190 .27	.05	.18	.24	.42	.23
200 .01	.00	.00	.01	.04	.01
210 .03	.16	.03	.00	.01	.05
220 .01	.00	.01	.02	.00	.01
30 .05	.00	.00	.00	.00	.01
40 .00	.00	.00	.00	.00	.00
50 .08	.07	.00	.16	.57	.18
260 .08	.28	.20	.40	.19	.23
270 .00	.00	.00	.03	.04	.01
280 .04	.01	.00	.01	.00	.01
290 .14	.00	.00	.01	.04	.04
00 .09	.21	.00	.00	.04	.07

Island Copper Mine
ISLAND

DRILLHOLE/TRVERSE 1 E-070 (CONTINUED)

F - I N T E R V A L -		CORE	§	TYP1-	QAL	TEX-	GRAIN	FRAC-	STRUCTUR-1	ALTERATION	MINS	ORE-TYPE	MINS																					
K L (UNITS = FT)		RECOV-	M	ROCK	FYING	MIN	TURES	CHARACS	TURE	H	H	H	H	H	ANY	H	H	ANY																
E A		ERY	I	TK	TM	MAT	TX	TX	F	C	%	M	T	ID	STK	DIP	A	A	A	A	A	MIN	A	A	A	MIN								
Y B FROM - TO		(FT.1)	X	TYPE	1	2	QM1	1	2	F	F	C	P	#	TK	1	AZM	RT	QZ	BI	CY	CB	MG	XX	PY	CP	SL	YY	SUMMARY					
K F		ROCK	FOR	EN	RT	TK	QM2	TX	TX	S	R	S	O	DIP	F	T	ID	STK	DIP	KF	MU	CL	EP	KE	HA	PR	MO	SL	HA					
E L		QUAL	MEM	V	Q	LC-	3	3	4	O	N	H	/	SML	I	2	AZM	RT		H	H	H	H	H	H	H	H	H	H					
Y B		DESIG	AGE	COL				R	D	P	C					STRUCTUR-2		A	A	A	A	A	A	A	A	A	A	A						
R STR	350.0	385.0		C/A																														
M	350.0	385.0		X FAUL												N	F/																	
P	385.0	490.0		BVAT	VF		FR	SH	K	8	N		P	VB							V3	ZE		7/	GI	X	8	1	4					
L				BV	LP	OG			3	3	C		4								P2	P5	44	V3		7	V2	V	4	5	*			
R LTH	385.0	490.0		GREEN-GRY, POORLY TO MOD WELL SORTED, CHL-EPI +/- SERIC ALT'D																														
R LTH	385.0	490.0		LAPILLI-ASH TUFF. LAPILLI SIZE FRAGS (+4MM), COMP APT 10%																														
R LTH	385.0	490.0		WITH MOST LAPILLI <2CM IN DIA. LAP COMP MAINLY OF MED DK																														
R LTH	385.0	490.0		GRY-GRN ASH TUFF. LAP GEN SUB-ANG TO SUB-RDD. PINK-OR																														
R LTH	385.0	490.0		MINERAL MED-STRG WITH EPI VNS. RK LOC SHATT'D AND HEALED WITH																														
R LTH	385.0	490.0		CARB/ZEO SCATT SHRS WITH CHL ON SLIP SURF. SOME DF ORANGE																														
R LTH	385.0	490.0		VNS ARE ZEO (SOFT) COMPARED TO SELV ON EPI VNS (HARD). SOME																														
R LTH	385.0	490.0		SPHAL +/- GAL IN SOFT PINK ALT'D TUFF, ALSO SEVERAL SHORT																														
R LTH	385.0	490.0		(1-2FT) OF HIGHLY FR/BKN CORE. RK MOD LACED WITH WT CALC/ZEO																														
R LTH	385.0	490.0		VNS (2-10MM) AND PINK-ORANGE & EPI VNS.																														
R FRC	385.0	490.0		HIGHLY FRACT'D CORE @ 447-449, 459-461, 477-481																														
P	490.0	590.0		BVAT	VF		FR	KR		P	2	VB		10	V1						V5	ZE		/	BY	X	8	1	5					
L				BV	AS	AG		<<	BR		3										P5	63	V4		B+	V2	V	4						
R LTH	490.0	590.0		A GREY-GRN CHL-EPI ALT'D (+/- SERIC), COARSE ASH ANDES TUFF,																														
R LTH	490.0	590.0		CRACKLED AND HEALED WITH CRISS-CROSSING NETWORK OF EPI-PINK																														
R LTH	490.0	590.0		MINERAL, CALC-ZEO (WT).																														
R LTH	490.0	590.0		WT CARB-ZEO VNS LOC CONTAIN SPHAL, HYDROCARBON. PINK-GRN EPI																														
R LTH	490.0	590.0		VNS +/- CARB COMMONLY CONTAIN SPHAL BLESBS/VNLS. THE PINK																														
R LTH	490.0	590.0		MIN ASSOC WITH EPI, AND OCCURRING AS ENVY ON EPI VNS, HAS A																														
R LTH	490.0	590.0		PHASE THAT OCCURS MORE IN VNS WITH CARB AND WITH COLOUR																														
R LTH	490.0	590.0		PINK-ORANGE-BRIGHT ROSE. THIS COULD BE DIFF MINERAL (ZEO) FROM																														
R LTH	490.0	590.0		ONE ASSOC WITH EPI. THE HARDNESS OF MIN WITH EPI IS DUE TO																														
R LTH	490.0	590.0		PRES OF QTZ INTERSTIALLY. VEIN DENSITY IS HIGHER IN THIS																														
R LTH	490.0	590.0		SECTION THAN ABOVE. CARB-ZEO VNS GEN AT LOW ANG TO C/A WITH																														
R LTH	490.0	590.0		EPI AND PINK VNS AT 60-90 DEG. TUFF TEXT EVEN, TIGHT PARKED																														
R LTH	490.0	590.0		ASH, GEN <2MM GRAIN SIZE.																														
R LTH	490.0	590.0		SCATT SECT BKN/HIGHLY FRACT'D CORE (500-502, 537-539)																														
R LTH	490.0	590.0		FROM 509-51. THE TUFF IS BIXD AND SHEARED WITH ANG TUFF AND																														
R LTH	490.0	590.0		VEIN FRAGS TO 2CM, POORLY SORTED, TIGHT PACKED WITH >60% FRAGS.																														
R LTH	490.0	590.0		SHEARS CUT BIX AT LOW ANG TO C/A (10-20 DEG.) WITH SOFT																														
R LTH	490.0	590.0		CHL-MUDDY, SLICK SURFACE. GYPSUM VNS TO 5MM CUT PINK & EPI																														
R LTH	490.0	590.0		VNS. FROM 562-590, TUFF IS MASSIVE WITH FEN CROSS CUTTING																														
R LTH	490.0	590.0		VEINS. THIS SECTION IS BOUNDED TOP AND BOTTOM BY SHR ZONES.																														
R MIN	505.0	507.0		SPHAL VNS WITH PYR, CARB OCCUR AT 10 DEG. C/A - 5-10MM THK.																														
R TXT	509.0	514.0		BRECCIA - SEE RLTH DESCRIPTION																														
R STR	535.0	562.0		A STRG SHR/FLT AT 562 WITH STRONG SERIC/PYROP(?) ALT'N LIES																														
R STR	535.0	562.0		ABOVE A FIVE FOOT SECT DF MISSING CORE - POSS DUE TO BKN																														
R STR	535.0	562.0		GROUND.																														

Island Copper Mine
ISLAND

DRILLHOLE/TRVERSE : E-070 (CONTINUED)

F - INTERVAL -		CORE	%	TYPI-	DAL	TEX-	GRAIN	FRAC-	STRUCTUR-1	ALTERATION	MINS	ORE-TYPE	MINS
K L (UNITS = FT)		RECOV-	M	ROCK	FYING	MIN	TURES	CHARACS	TURE	H	H	H	H
E A		ERY	I	TM	TM	NAT	TX	TX	F	C	%	M	T
Y 6 FROM - TO		(FT.)	X	TYPE	1	2	DM1	1	2	F	F	C	P
													#
													TK
													1
													AZM
													RT
													Q2
													B1
													CY
													C2
													MG
													XX
													PY
													CP
													GL
													YY
													SUMMARY
R STR	839.0	840.0	AN S-FOLD OF SYMMETRICAL TYPE WITH CARB HEALED TENSION FRACS										
R STR	839.0	840.0	/GASHES										
P	868.0	907.0		PBTF	VF		FR	SH	K	8	M		P
L				PB	LP		BD		C				P
R TXT	868.0	878.0	CONTACT BTM SEDS AND TUFF ZONE - RK BXX'D WITH MIXED TUFF AND										
R TXT	868.0	878.0	SED FRACS. ALTN'S ARE CHL-EPI WITH SILIC'D SEDS. SPHAL OCC IN										
R TXT	868.0	878.0	FRACT WITH 2-5% PYR.										
R LTH	868.0	907.0	INTER BDD LAPILLI (SMALL) ANDES TUFF AND THIN BDD, WK LIMBY										
R LTH	868.0	907.0	BLK/GRY STRIPPED ARG APT 75% IS COMP OF TUFF. TUFFS ARE										
R LTH	868.0	907.0	GREY-GRN TO APPLE GRN										
R LTH	868.0	907.0	CHL-EPI ALT'D LAPILLI GEN 3-5MM DIA AND TIGHT PACKED (>60%										
R LTH	868.0	907.0	LAPILLI). TUFF/SED CONTACTS SHARP. BOTH RK TYPES CUT BY										
R LTH	868.0	907.0	CARB-ZEO-SPHAL HEALED FRACFS. BDD IS APT 60 DEG C/A. THE RK										
R LTH	868.0	907.0	IS SHR'D AND BKN FROM 897-902										
N	878.0	907.0		2	PBSD		BD						N
L				PB			AN						N
R TXT	892.0	896.0	THE LAF FRACS ARE COARSE ASH/X'AL TUFFS. MANY OF PYROCLASTS										
R TXT	892.0	896.0	HAVE QTZ/FELD X'ALS OCCUPYING MOST OF FRAG (EG: ONE BIO X'AL IN										
R TXT	892.0	896.0	CENTER). UNUSUAL TEXT.										
P	907.0	937.0		PBVS		6;	BR	D	8	I			P
L				PB	NG			7	5	S	C		2
R LTH	907.0	937.0	BLK, LT GRN, WT STRIPPED, CHL, SILIC, SERIC, EPI ALT'D, WEAKLY										
R LTH	907.0	937.0	BLEACHED, THIN BDD, SILTY-SANDY SIZED ARGNITES, BLK										
R LTH	907.0	937.0	CARBONACEOUS SEDS AND CHERT. GRN SIZE TOO SMALL TO DETERMINE										
R LTH	907.0	937.0	IF TUFFS. GOOD GRADED BDD WITH SOFT SED CAST										
R LTH	907.0	937.0	FEATURES/RIPPLES(?). ALTN'S GEN PERV. PYR IS 2-4% DISS >										
R LTH	907.0	937.0	VNLTS, PYR CONC VARIES BTM TYPES OF BDD AND HAS WK LAYERING,										
R LTH	907.0	937.0	POSS REFLECTING COMP LAYERING WITHIN BDD. FEW THIN (3-5CM)										
R LTH	907.0	937.0	LAYERS OF EPI-SP-PY ALT'D LIMBY SED (EG: @ 923)										
R LTH	907.0	937.0	MAIN FRAC FILLINGS WT ZEO, CARB, GILS (WK), EPI; MOD INTENSITY										
R LTH	907.0	937.0	BDD IS 60 DEG @ 910, 65 DEG @ 920,										
R LTH	907.0	937.0	0 @ 930-933, 40 @ 936										
R LTH	907.0	937.0	THE BDD SHOW ONLY MINOR DISP ON FRACFS EXCEPT WHERE BDD IS										
R LTH	907.0	937.0	DEFORMED AND SEDS ARE BXX'D. NOTE: PYRRHOTITE PATCH ELONG										
R LTH	907.0	937.0	ALONG BDD AT 935 WITH EPI, MAG(?)										
R LTH	907.0	937.0	BLK MTL COMMON IN MICRO FRACFS IN SILIC BDD. BLK LAYERS THINLY										
R LTH	907.0	937.0	(<1MM) LAMINATED. SOME BEDDED SULPHIDES (1-2MM) AT 734 FT-PYR,										
R LTH	907.0	937.0	SP(?)										
R SAM	935.0	935.3	LENS OF PYRRHOTITE IN BDD - UNUSUAL OCCURRENCE.										
R MIX	935.0	935.3	LENS OF PYRRHOTITE IN BDD ELONGATED ALONG BDD.										
P	937.0	958.0		PBTF	VF		FR	MX	K	8	O		P

Island Copper Mine
ISLAND

DRILLHOLE/TRVERSE : E-070 (CONTINUED)

F - INTERVAL -			CORE	%	TYP1-	QAL	TEX-	BRAIN	FRAC-	STRUCTUR-1	ALTERATION	MINS	ORE-TYPE	MINS																
K 2 (UNITS = FT)			RECOV-	M	ROCK	FYING	MIN	TURES	CHARACS	TURE	H	H	H	R	H	ANY	H	R	H	ANY										
E	A		ERY	I	TK	TK	MAT	TX	TX	F	C	%	M	T	ID	STK	DIP	A	A	A	A	A	MIN	A	A	A	MIN			
Y	B	FROM - TO	(FT.1)	X	TYPE	1	2	QM1	1	2	F	F	C	P	#	TK	1	AZM	RT	QZ	BI	CY	CB	MG	IX	PY	CP	GL	YY	SUMMARY
K	F		ROCK	FOR	EN	RT	TM	QM2	TX	TX	S	R	S	O	DIP	F	7	ID	STK	DIP	KF	MU	CL	EP	HE	HA	PR	MO	SL	HA
E	L		QUAL	MEM	V	Q	LC-3	3	4	O	N	H	/	SML	I	2	AZM	RT				H	H	N	H	H	H	H	H	H
Y	B		DESIG	AGE		COL				R	D	P	C				STRUCTUR-2				A	A	A	A	A	A	A	A	A	
L				PB	LP	56				3	5	5	C				P4	72			D+									1 +
R	CON	937.0	937.5	806 AT CONT TURNED PERP TO CONT WITH 2-3CM OF FINE EPI, SP, PYR																										
R	CON	937.0	937.5	ALT'D BXX AT CONTACT.																										
R	SAM	937.0	937.5	CONT BTW SEDS AND ASH-LAPILLI TUFF.																										
R	LTH	937.0	958.0	MED-DK GRN-BLK LAPILLI-ANDES TUFF. LAP BEN 5-10MM WITH MAX AT																										
R	LTH	937.0	958.0	6CM																										
R	LTH	937.0	958.0	LAP COMP OF COARSE ASH AND X'AL TUFF. RK CHL +/- EPI ALT'D.																										
R	LTH	937.0	958.0	RK TIGHT PK'D WITH +70% LAPILLI. MATRIX GEN DARK. SOME SP IN																										
R	LTH	937.0	958.0	MTX. PYR DISS (1-2%)																										
R	LTH	937.0	958.0	RK NON-MAGN, NON-LIMEY. LAPILLI GEN WITH RD/IRREG BOARDERS -																										
R	LTH	937.0	958.0																											
R	SAM	948.0	948.3	POSS LAP TUFF - TIGHT PACKED																										
P		958.0	1027.0		PBTF	VF		FR	MX	6	8	I		P							V1		ZE	8=	/		X	B	1	4
L					PB	AS				5	5	6	C	1							P1	P4	73	V1		8+	E	1	1	=
R	CON	958.0	958.0	SHARP CONT AT 65 DEG C/A																										
R	LTH	958.0	1027.0	MASSIVE GRN-GRY, CHL-EPI ALT'D, ANDES ASH (COARSE AND FINE)																										
R	LTH	958.0	1027.0	TUFF. SL CHL ALT'D PYRIBOLE X'AL'S COMP ABT 5-10%, 70 IMM IN																										
R	LTH	958.0	1027.0	DIA IN A TIGHT PK'D FINER ASH MTX (GEN <1/4MM). FELD X'AL'S																										
R	LTH	958.0	1027.0	GIVE RK PORPHYRITIC LK, BUT SCATT LITH FRAG INDICATE TUFF. PYR																										
R	LTH	958.0	1027.0	DISSEM +/- BRN SP. PYR RUNS 3-5% -PERVASIVE. FEW SCATT CALC/ZEO																										
R	LTH	958.0	1027.0	VNLTs. RK NON-LIMEY. SCATT VNLTs CHL-PYR +/- SP WITH LT GRN																										
R	LTH	958.0	1027.0	ALT'N ENVS. ALSO SOME VNS OF (X'AL) AMPHIB WITH BLADED																										
R	LTH	958.0	1027.0	X'ALS/SHEAVES. NOTE: PERV FINE (0.1MM) WT SPOTS THRO TUFF-PROB																										
R	LTH	958.0	1027.0	MK SERIC ALT'N. SOME LAP TUFF (1FT) OCC AT 99% FT WITH DARKER																										
R	LTH	958.0	1027.0	GR ALT'D RK TO 1027.																										
R	LTH	958.0	1027.0	DK CHL ALT'D SPOTS INCR TO 10-15%																										
R	LTH	958.0	1027.0	RK HAS SL BRN HUE - POSS BIO ALT'N. EPI & PINK MIN OCC IN VNS																										
R	LTH	958.0	1027.0	@ 1015-1025, 997-1000'.																										
R	LTH	958.0	1027.0	NOTE: THE FACT THAT THE SEDS ABOVE AND BELOW THIS SECTION ARE																										
R	LTH	958.0	1027.0	CONTORTED/BXX'D AND BENT TO PERP TO THE CONTACTS (0 DEG TO C/A)																										
R	LTH	958.0	1027.0	SUGGESTS THAT THIS COULD BE A PORP'C ANDES INTR THAT DEFORMED																										
R	LTH	958.0	1027.0	SURROUNDING STRATA. HOWEVER, NO SED FRAGS NOTED IN THE ANDES.																										
R	SAM	963.0	963.2	ASH TUFF WITH 3-5% DISS PYR +/- SP.																										
P		1027.0	1080.0		PBSD		G;		D	B	I		P	3	BD	40	P3				V1		ZE	8+	/		X	B	1	3
L					PB	MG				7	5	5	C	1	3	BD	45	P1	P3	72	V1		8+	E	1	1	+			
R	LTH	1027.0	1080.0	GRY WL LT GRN STRIPPED THIN 800 FINE-SAND TO COARSE SILT AND																										
R	LTH	1027.0	1080.0	CHERTY SEDS SIMILAR TO ABV (907-937) SEDS. WITH SIMILAR ALTM'S																										
R	LTH	1027.0	1080.0	DARK FINELY LAMINATED BLK PELITIC LAYERS COMP 30-40%. LOCALLY																										
R	LTH	1027.0	1080.0	TO 50%, ABT 10% WT CHERTY BEDS AND REMAINDER COMP OF GRY-GREEN																										
R	LTH	1027.0	1080.0	TUFFACEOUS LOOKING SEDS. 806 LOCALLY DISTURBED WITH MINOR																										
R	LTH	1027.0	1080.0	DISPLACEMENTS. MAIN VNS ARE EPI-PINK MIN-PYR +/- SP AND LATE																										
R	LTH	1027.0	1080.0	STAGE CALC-ZEO VNLTs PYR GEN DISS IN BDS 3-5% AND IN MINOR																										

Island Copper Mine
ISLAND

DRILLHOLE/TRVERSE ; E-070 (CONTINUED)

F - INTERVAL -			CORE	%	TYPI-	QAL	TEX-	GRAIN	FRAC-	STRUCTUR-1 ALTERATION MINS ORE-TYPE MINS																										
K L (UNITS = FT)			RECOV-	M	ROCK	FYING	MIN	TURES	CHARACS	H H H H H ANY H H H ANY																										
E A			ERY	I	TM	TM	MAT	TX	TX	F	C	%	M	T	ID	STK	DIP	A	A	A	A	A	MIN	A	A	A	MIN									
Y 6 FROM - TO			(FT.1)	X	TYPE	1	2	QM1	1	2	F	F	C	P	#	TK	1	AZK	RT	QZ	BI	CY	CB	MS	XX	PY	CP	BL	YY	SUMMARY						
K F			ROCK	FOR	EN	RT	TM	QM2	TX	TX	S	R	S	O	DIP	F	T	ID	STK	DIP	KF	MU	CL	EP	HE	HA	PR	MO	SL	HA						
E L			QUAL	MEM	V	Q	LC-	3	3	4	O	N	H	/	SNL	1	2	AZK	RT			H	H	H	H	H	H	H	H	H						
Y 6			DESIG	AGE	COL						R	D	P	C			STRUCTUR-2					A	A	A	A	A	A	A	A							
R LTH	1179.0	1320.0	GRADED. SPHAL IS WIDESPREAD THRO IT ALT'D SEDS (TUFS) - ALONG																																	
R LTH	1179.0	1320.0	BDS & IN VNS CUTTING BDS. BOTH SP & PYR SHOW LAYERING WITH BD																																	
R LTH	1179.0	1320.0	BTMS PREF ZONES OF CONC. MAIN VNS ARE: EARLY-CHL +/- EPI +/-																																	
R LTH	1179.0	1320.0	PYR; INTER-QTZ-EPI-PYR; SPHAL VNS +/- PY;																																	
R LTH	1179.0	1320.0	LATE - WT CALC, ZEO; V-LATE GRV GYPSUM. SCATT THIN SULPHIDE																																	
R LTH	1179.0	1320.0	RICH (SP,PY) BANDS (EG: 20 CM @ 1233 FT, 3CM @ 1246 NOTE: SOME																																	
R LTH	1179.0	1320.0	OF PINK-ORANGE MIN WITH EPI VNS, QTZ-PYR-EPI VNS GEN AT LOW ANG																																	
R LTH	1179.0	1320.0	TO C/A AND ASSOC WITH MINOR BIX. DK CHL-EPI (TUFF?) BDS GEN																																	
R LTH	1179.0	1320.0	WITH 5-10% PY BDS GEN MICROFRACT'D PERP TO BDS.																																	
N	1219.0	1224.0	X	PBSD	QZ				6;	<<	F	9	I		B	2	BD			45	P3		V1		ZE	8+	/	GY	X	8	1	4				
L			PB	6A											C	1	2	BD			40	P2	84	85	V1		8)	V1	V	/	9	+				
N	1273.0	1277.0	X	PBSD	QZ				6;	<<	F	9	I		D	3	BD			45	P3		V1		ZE	8+	/	GY	X	8	1	4				
L			PB	6A											C	1	3	BD			60	P2	84	85	V1		8)	V1	V	/	9	+				
N	1287.0	1294.0	X	PBSD	QZ				6;	<<	F	9	I		D	3	BD			60	P3		V1		ZE	8+	/	GY	X	8	1	4				
L			PB	6A											C	1	3	BD			80	P2	84	85	V1		8)	V1	V	/	9	+				
R ALT	1290.0	1308.0	EPI VNS (& PYR) AND BANDS PRDM EPI-PYR VNS CUT ORANGE ALT'D																																	
R ALT	1290.0	1308.0	BDS. SOME DR ZEO VNS (WITH CALC) FROM 1308-1308 ROCK IS MORE																																	
R ALT	1290.0	1308.0	SILIC AND BLEACHED WT/GRV WITH 3-5% FINE, DISS PYR.																																	
R	1292.0	1292.0	REDUCED DRILL STRING TO NO RODS.																																	
N	1308.0	1320.0	X	PBSD	QZ				6;	<<	F	9	I		D	3	BD			50	P5		V1		ZE	8+	/	GY	X	8	1	4				
L			PB	6A											C	1	3	BD			60	P3	84	85	V1		8)	V1	V	/	9	+				
P	1320.0	1594.0		PBSD					6;	<<	F	8	H		P	2	BD			60	P7		V2		ZE	7=	/	GT			9	7				
L			PB	5G											B	7	7	C			75	P3	P2		V2		/	V1								
N	1335.0	1362.0	3	PBTf	Vf										FR	MX								V2	P1	ZE	7=		61		2	5				
L			PB	AS	5G												2						P4		V2			V1		1	=					
R LTH	1345.0	1594.0	INTERBEDDED WT, GRV, TAN, LT BRN, MOD-INT SILICIFIED & SERIC																																	
R LTH	1345.0	1594.0	(?) ALT'D (BLEACHED) BEDDED FINE-SAND TO SILT SIZED QTZ-FELD'S																																	
R LTH	1345.0	1594.0	SEDS (PORCELLANITE) AND GREEN, MED CHL-MAG ALT'D, PYRITIC,																																	
R LTH	1345.0	1594.0	COARSE ASH TUFS. SILIC'M IS CONSID HIGHER IN THIS SECT'M WITH																																	
R LTH	1345.0	1594.0	BDS MASKED BY ALT'NS.																																	
R LTH	1345.0	1594.0	PYR CNT OVERALL IS ABT 4-5% WITH LOCALLY 5-10% AND +10% IN																																	
R LTH	1345.0	1594.0	NARR SECT'S (<30CM)																																	
R LTH	1345.0	1594.0	RK IS MICRO VND/FRACT'D WITH PYR MAIN FRACT FILLING FEW SECT'S																																	
R LTH	1345.0	1594.0	WITH COARSE (<<1CM) X'AL CALC HEALED, VUGGY FRACTS. THIS SECT																																	
R LTH	1345.0	1594.0	IS IN QTZ-PYR-SERIC ALT'M ENVIR COMP'D TO QTZ-CHL-EPI-PYR-SERIC																																	
R LTH	1345.0	1594.0	IN ABV SECT, TUFS BDS PROVIDE INCR'D ACCESS TO THE SEDS FOR																																	
R LTH	1345.0	1594.0	HYDROTHERMAL FLUIDS - IE: INCR'D ALT'NS. SPHAL NOT AS EVIDENT																																	
R LTH	1345.0	1594.0	IN THIS SECT AND PYR IS GREATER. DISTINCT TUFS BDS AT																																	
R LTH	1345.0	1594.0	1335-1337; 1360-1362; 1372(?) - 1383; 1410-1431, 1505-1534, 1585-																																	
R LTH	1345.0	1594.0	BDS: 90 DEG @ 1360; 65 DEG @ 1395, 60 DEG @ 1405, 65 DEG @																																	
R LTH	1345.0	1594.0	1439, 75 DEG @ 1460, 80 DEG @ 1475, 8 DEG @ 1485, 75 DEG @																																	
R LTH	1345.0	1594.0	1497, 65 DEG @ 1541, 65 DEG @ 1551, 70 DEG @ 1565, 70 DEG @																																	
R LTH	1345.0	1594.0	1575.																																	

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DRILLHOLE/TRVERSE : E-070 (CONTINUED)

F - I N T E R V A L -		CORE	%	TYPI-	QAL	TEX-	GRAIN	FRAC-	STRUCTUR-1 ALTERATION MINS ORE-TYPE MINS																							
K L (UNITS = FT)		RECDV-	M	ROCK	FY1NS	MIN	TURES	CHARACS	TURE	H H H H H ANY R H H ANY																						
E A		ERY	I	TM	TM	MAT	TX	TX	F C % M	T	ID	STK	DIP	A	A	A	A	A	MIN	A	A	A	MEN									
Y 6 F R O M - T O		(FT.1)	X	TYPE	1	2	QMI	1	2	F F C P	#	TK	1	AZM	RT	QZ	BI	CY	CB	MG	XX	PY	CP	BL	YY	SUMMARY						
K F		ROCK	FOR	EN	RT	TM	QMI	TX	TX	S	R	S	O	DIP	F	T	ID	STK	DIP	KF	KU	CL	EP	HE	HA	PR	MO	SL	HA			
E L		QUAL	MEM	V	R	LC-	3	3	4	Q	N	H	/	SML	I	2	AZM	RT		H	H	H	H	H	H	H	H	H	H			
Y 6		DESIG	ABE	COL				R	D	P	C					STRUCTUR-2			A	A	A	A	A	A	A	A	A	A				
L			PB	RG	<<	7	C	4	2	V8								P5	E4	V2								1 =				
P	1594.0	1700.0		PBSD			G;	BR	E	9	H		P	2	BD			75	P6		V4		ZE	7=		GI	6	Y	9	6		
L			PB	NA			KR	VV	7	7	C		3	2	BD				P3	P1	72		V3			V1	V	1	1 =			
R LTH	1594.0	1700.0	BLEACHED AND SILIC'D AND EPI ALT'D SEDS. EPI WAS NOT PRESENT																													
R LTH	1594.0	1700.0	ABV ALT'D SEDS. B06 IS GRADED, LOCALLY OBCURED BY ALT'NS AND																													
R LTH	1594.0	1700.0	FRACT/BIX.																													
R LTH	1594.0	1700.0	B06 IS 75 DEG @ 1610, 45 DEG @ 1640, 70 DEG @ 1669, 65 DEG @																													
R LTH	1594.0	1700.0	1690, 70 DEG @ 1646																													
R LTH	1594.0	1700.0	RK LACED WITH WT CALC-ZED VNS. PYR IS ABT SAME AS ABV SEOS (IE:																													
R LTH	1594.0	1700.0	ABT 5%).																													
R LTH	1594.0	1700.0	SOME BIX'N AND SHRS ADD TO GEN SHATT'D TEXT. SILS OCC WITH																													
R LTH	1594.0	1700.0	CALC IN BIX VNS.																													
N	1640.0	1646.0		X PBSD			G;	BR	E	9	H		D	2	BD			45	P6		V4		ZE	7=		GI	6	Y	9	6		
L			PB	NA			KR	VV	7	7	C		3	2	BD				70	P3	P1	72		V3			V1	V	1	1 =		
N	1669.0	1690.0		X PBSD			G;	BR	E	9	H		D	2	BD			70	P6		V4		ZE	7=		GI	6	Y	9	6		
L			PB	NA			KR	VV	7	7	C		3	2	BD				65	P3	P1	72		V3			V1	V	1	1 =		
P	1700.0	1950.0		PBSD			G;	KR					P		BD				L4		V4		ZE	7=		GI	6	A	K	4		
L			PB	SK			<<	VV					3		BD					?	72	73		V2			/	V1	L	4	1 =	
R LTH	1700.0	1950.0	THICK SEQ OF BLEACHED, SILIC'D, GARNET'D (?), SKARNY,																													
R LTH	1700.0	1950.0	SAND-SILTY SIZED QTZ-FELD'C SEDS. BEDDING IS GRADED, BUT																													
R LTH	1700.0	1950.0	MASKED BY ALTN'S IN SOME SECTIONS																													
R LTH	1700.0	1950.0	THIS SECTION CHARACT'D BY MOD-STAG REDDISH BRN ALT'N OF B05																													
R LTH	1700.0	1950.0	THAT RESEMBLES GARNET ALT'NS IN OTHER HOLES																													
R LTH	1700.0	1950.0	EPI-PYR ALT'N IS VARIABLE AS BOTH VNS & DISS PYR RUNS 3-5% LOC																													
R LTH	1700.0	1950.0	5-10%.																													
R LTH	1700.0	1950.0	THE BRN-RED BANDS ARE NK LINEY AND NOT SILICIFIED AS ARE GRY-WT																													
R LTH	1700.0	1950.0	LAYERS. RK IS MOD-LOC HIGHLY VN'D WITH CALC-ZED, PYR, MAIN																													
R LTH	1700.0	1950.0	VEINS (GEN <2MM).																													
R LTH	1700.0	1950.0	SILS OCCURS WITH CALC IN LATE STAGE VNS.																													
R LTH	1700.0	1950.0	BEDDING IS: 90 DEG @ 1708, NON-BEDDED 1710-1730, 75 DEG @ 1737,																													
R LTH	1700.0	1950.0	80 DEG @ 1745, 75 DEG @ 1772, 70 DEG @ 1785, 70 DEG @ 1796, 75																													
R LTH	1700.0	1950.0	DEG @ 1810, 75 DEG @ 1830, 75 DEG @ 1845, 70 DEG @ 1854, 70 DEG																													
R LTH	1700.0	1950.0	@ 1884, 60 DEG @ 1910.																													
R SAM	1737.0	1737.4	BRN-RED GARNET ALT'D, THIN BDD SED.																													
N	1737.0	1745.0		X PBSD			G;	KR					D	2	BD			75	L4		V4		ZE	7=		GI	6	A	K	4		
L			PB	SR			<<	VV					3	2	BD				80		?	72	73		V2			/	V1	L	4	1 =
N	1772.0	1780.0		X PBSD			G;	KR					D	2	BD			75	L4		V4		ZE	7=		GI	6	A	K	4		
L			PB	SR			<<	VV					3	2	BD				70		?	72	73		V2			/	V1	L	4	1 =
N	1796.0	1810.0		X PBSD			G;	KR					D	2	BD			70	L4		V4		ZE	7=		GI	6	A	K	4		
L			PB	SR			<<	VV					3	2	BD				75		?	72	73		V2			/	V1	L	4	1 =
R VEN	1810.0	1825.0	A 5CM THK WUGGY CALC VN-BANDED AT 0 DEG C/A OVER 15FT WITH																													
R VEN	1810.0	1825.0	THINNER VN, EXTENDING UP ABV MAIN VN.																													

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DRILLHOLE/TRVERSE : E-070 (CONTINUED)

F - I N T E R V A L -			CORE	\$	TYPI-	QAL	TEX-	GRAIN	FRAC-	STRUCTUR-1	ALTERATION	MINS	ORE-TYPE	MINS																
K L (UNITS = FT)			RECOV-	M	ROCK	FYING	MIN	TURES	CHARACS	T	ID	STK	DIP	A	A	A	A	A	MIN	A	A	A	MIN							
E A			ERY	I	TM	TM	MAT	TX	TX	F	C	%	M	1	AZ	RT	QZ	BI	CY	CB	MG	XX	PY	CP	GL	YY	SUMMARY			
Y G F R O M - T O			(FT.1)	X	TYPE	1	2	QM1	1	2	F	F	C	P	&	TK	1													
K F			ROCK	FOR	EN	RT	TM	QM2	TX	TX	S	R	S	O	DIP	F	T	ID	STK	DIP	KF	MU	CL	EP	HE	HA	PR	MO	SL	HA
E L			QUAL	MEM	V	Q	LC-	3	3	4	O	N	H	/	SML	I	2	AZ	RT		H	H	H	H	H	H	H	H	H	
Y G			DESIG	AGE	COL				R	D	P	C					STRUCTUR-2		A	A	A	A	A	A	A	A	A			
N	1830.0	1845.0		X	PBSD				G;	KR				D	2	BD		75	L4		V4		ZE	7=		6I	6	A	K	4
L				PB	SR				<<	VV				3	2	BD		75			? 72	73	V2			/	V1	L	4	1 =
R ALT	1840.0	1860.0		GARNET (REDDISH-BRN) ALT'N STRG ABOVE THE TUFF LAYER																										
R ALT	1840.0	1860.0		QTZ-EPI-PYR OCC AS RETROGRADE ALT'N PARTIALLY ALT'G THE																										
R ALT	1840.0	1860.0		GARNET.																										
N	1854.0	1884.0		X	PBSD				G;	KR				D	2	BD		70	L4		V4		ZE	7=		6I	6	A	K	4
L				PB	SR				<<	VV				3	2	BD		70			? 72	73	V2			/	V1	L	4	1 =
R LTH	1860.0	1875.0		GRY, SILIC, CHL ALT'D ASH TUFF - PYR RUNS 3-5% LACED WITH MT																										
R LTH	1860.0	1875.0		CALC-ZEO AND FEW MT QTZ VNS																										
R LTH	1860.0	1875.0		NO GARNET ALT'N IN THE TUFF.																										
N	1860.0	1875.0		X	PBT	RF			FR					N	3	VB			P4		V4		ZE	7=					9	3
L				PB	AS	GA									3	VQ						P3		V2						1 =
R VEN	1910.0	1920.0		BLACK GILS OCC WITH CALC-ZEO VNS AND ON SLIP SURFACES.																										
R	1910.0	1920.0																												
N	1910.0	1950.0		X	PBSD				G;	KR				D	2	BD		60	L4		V4		ZE	7=		6I	6	A	K	4
L				PB	SR				<<	VV				3							? 72	73	V2			/	V1	L	4	1 =
R ALT	1940.0	1950.0		STRG QTZ-EPI PYR ATL'N OCCURS ABV CONTACT OBLITERATING MUCH OF																										
R ALT	1940.0	1950.0		GARNET.																										
P	1950.0	2055.0			PPH	FX	MX		PP		I	B	K		P						V3		V2		ZE	7+				
L									KR	VV		C									P1	P3		E3	V3					
R LTH	1950.0	2055.0		INTERMIXED MED GRN'D HBL-FELD PORP AND FN GRN'D ANDESITIC																										
R LTH	1950.0	2055.0		INTR/TUFF(?)																										
R LTH	1950.0	2055.0		THE HBL PORP HAS PHENOS OF HBL/PROX TO 4MM WITH PHENOS																										
R LTH	1950.0	2055.0		PSEUDOMORPHED BY CHL AND CHL'D FELD. PHENO COMP +50% OF INTO																										
R LTH	1950.0	2055.0		PHASES OF INTR SEPARATED BY SHR/BIX (1973-1975; 1985-1985.5)																										
R LTH	1950.0	2055.0		FROM 2010 THE FELD ARE PROM COMP'G ABT 30% OF RK AS WHITE,																										
R LTH	1950.0	2055.0		SERIC ALT'D PHENO. RED MEM ALT'N ENVS COMMON ON QTZ-CARB-ZEO																										
R LTH	1950.0	2055.0		AND PYR VNS. GRY-WT QTZ +/- MDLY VNS TO 4CM THK AT ABT 60 DEG																										
R LTH	1950.0	2055.0		C/A AND ABD FROM 2010-2650. VEIN INT IS V-HIGH FROM ABT																										
R LTH	1950.0	2055.0		2000-2050'																										
R STR	1972.0	1974.0		SHR/FLT WITH GOUGE AND BIX BANDED AT 30 DEG C/A																										
R COM	2050.0	2051.0		CONTACT TAKEN AT LAST OCC OF HBL PHENOS. CONT OBSERVED BY INT																										
R COM	2050.0	2051.0		VEINING AND SHEARINGS. TWO FT OF MASS PYR.																										
R LTH	2050.0	2283.0		A SHATT'D, SHR'B, BRECCIATED SECT'N WITH REM'N GARN ALT'D SECS																										
R LTH	2050.0	2283.0		NEAR TOP GRY TUFF LAYERS. ORIG TEXT LARGELY DEST BY INT																										
R LTH	2050.0	2283.0		VEINING, BIX.																										
R LTH	2050.0	2283.0		BIX'S HAVE VN QTZ FRAGS & WITH CARB-ZEO INFILLING. SOFT GRN																										
R LTH	2050.0	2283.0		SERIC OCC WITH QTZ-VNS. FROM 2080-2102 RK V-SILICEOUS																										
R LTH	2050.0	2283.0		RK AT 2102-2114 HAS REM TUFF TEXT. RK FRIABLE-SHATT'D																										
R LTH	2050.0	2283.0		FROM 2114, RK COMP 40-50% OF WT ZEO/CARB/QTZ VNS WITH FRAGS																										
R LTH	2050.0	2283.0		MAINLY WT SILIC'D MTL - DRIG TEXT GONE. REM PATCHES OF GARNET																										
R LTH	2050.0	2283.0		INDICATE RK WAS PBSD.																										

Island Copper Mine
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DRILLHOLE/TRVERSE : E-070 (CONTINUED)

F - INTERVAL -		CORE RECOVERY (FT.)	% ROCK TYPE	TYPI- QAL	TEX- MIN MAT	GRAIN FRACTURE CHARACT	STRUCTUR-1	ALTERATION	MINS	ORE-TYPE	MINS	SUMMARY
K L (UNITS = FT)	Y 6 FROM - TO											
K F		ROCK	FOR EN RT	YK QM2 TX TX	S R S O	DIP F	T ID STK DIP	KF MU CL EP HE HA	PR NO SL HA			
E L		QUAL	MEM V Q LC- 3	3 4	O N H / SML	I	2 AZM RT	H H H H H H H H				
Y 6		DESIG	AGE	COL	R D P C		STRUCTUR-2	A A A A A A A A				
R STR	2050.0	2070.0	STR SHR AT 20-30 DEG C/A WITH BLK GRY CHL/SER COATINGS.									
P	2055.0	2283.0	PBVS RF SH BR P 5 F/ 30 76 V4 ZE 7+									
L			PB << VV 5 3 VQ E1 P2 V4 /									
R LTH	2135.0	2155.0	THIN BANDING AT 65-70 DEG C/A WITH ALTERNATING BRN & GRY BANDS									
R LTH	2135.0	2155.0	1-2MM THK. PROB ALT'D SEDS. REDDISH-BRN STAIN AND BANDS NOT									
R LTH	2135.0	2155.0	GARNET. RK NOT HIGHLY SILIC'D.									
N	2135.0	2155.0	X PBSO RF BD BR H B J D 5 BD 65 83 V4 ZE 7+									
L			PB TA << KR 7 7 7 C 2 3 BD 70 E1 P3 V5 /									
R LTH	2155.0	2170.0	NO VIS BGS. GRAIN SIZE INCR - PROB ASH TUFF. SPOTS AND VNS OF									
R LTH	2155.0	2170.0	PYR-EPI PROM. RK NOT SILICIFIED. LT COLOURS PROB DUE TO PERV									
R LTH	2155.0	2170.0	SERIC ALT'N. PYR 3-5%. RK LACED WITH WT CALC-ZEO VNLS TO									
R LTH	2155.0	2170.0	1CM. SOME OF THIS MAY BE ALT'D SKARN - GRANULAR TEXT.									
N	2155.0	2170.0	X PBTf RF SH BR I B K D 2 V2 60 81 V4 ZE 7=									
L			PB AS GA << VV 5 C 5 3 VQ P4 P3 73 V4 /									
R LTH	2170.0	2180.0	SIMILAR TO 2135-2155 - SOME REMN BEDDING AT 75-80 DEG C/A. BLK									
R LTH	2170.0	2180.0	GILS IS MOD ABD IN LATE CALC VNS CUTTING WT ZEO/VNS, CARBON									
R LTH	2170.0	2180.0	ALSO COATS SHEAR PLANES.									
N	2170.0	2180.0	X PBSO RF BD KR D 2 BD 75 ZZ V4 ZE 7= 61									
L			PB TA << SH 5 2 V2 E1 P2 73 V5 / V2 1 =									
R LTH	2180.0	2202.0	HIGHLY-INT'L Y ZEO VN'D (>.25% RK IS ZEO +/- CARB), SHEARED,									
R LTH	2180.0	2202.0	BIX'D RK WITH SHORT RUNS OF +10% PYR & EPI ALT'N. PYR RUNS AT									
R LTH	2180.0	2202.0	5-10%.									
R LTH	2180.0	2202.0	LT COL'D SECTS HAVE FRAG'AL TEXT WITH SILIC'D FRAGS TO 3CM.									
R LTH	2180.0	2202.0	TIGHT PACKED IN SERIC/ZEO MTX - LOC FRAG'AL TEXT - PROB ALT'D									
R LTH	2180.0	2202.0	TUFF.									
N	2180.0	2202.0	X PBTf RF FR BR J B L D 2 V2 45 ZZ V4 ZE 7)									
L			PB 7A KR SH 5 4 4 C 3 1 SH E1 P3 75 V4 / 1)									
R LTH	2202.0	2237.0	MED-FM GRND MASSIVE, PORP'C ANDES (X'AL TUFF) WITH >50% COMP OF									
R LTH	2202.0	2237.0	CHL ALT'D PRISMATIC & STUBBY FN BRN'D (<<1MM)									
R LTH	2202.0	2237.0	PYRIDOLE X'ALS V-FM, GRND FELD/MAFIC MTX. VAGUE CLASTS SUBG									
R LTH	2202.0	2237.0	X'AL TUFF. RED HEM ENV TO 5MM THK (PER SIDE) ON PYR/CHL AND									
R LTH	2202.0	2237.0	CALC/ZEO VNS. SCATT QV'S TO 1CM (WHITE)									
R LTH	2202.0	2237.0	A 15CM BIX/SHR AT 45 DEG C/A AT 2211 FT. MINOR SPOTS SP IN									
R LTH	2202.0	2237.0	CARB VNS FROM 2225-2237. RK IS MORE FELSIC (<10% MAFICS) WITH									
R LTH	2202.0	2237.0	50% GRY EUNEDR FELD IN WT, FB MTX THIN CHL INV ON PYR VN +/-									
R LTH	2202.0	2237.0	EPI.									
N	2202.0	2237.0	X PPAF RF PP "" 6 8 I D 2 VQ 70 V2 V1 ZE 7+									
L			PB AG 7 C 2 2 V2 E1 P5 E1 E2 V2 / 1 +									
R SAM	2225.0	2225.3										
R LTH	2237.0	2254.0	STR CHL-PYR +/- EPI ALT'D RK CUT BY SHRS 20-40 DEG C/A. PYR									
R LTH	2237.0	2254.0	LOC +10%									
R LTH	2237.0	2254.0	ORANGE ZEO STAIN COMMON ASSOC WITH ZEO/CARB VNS. PYR IN									
R LTH	2237.0	2254.0	PATCHES AND VNS WITH EPI PDSS REMN BGS 2237-2240 @ 70 DEG C/A.									

Island Copper Mine
ISLAND

DRILLHOLE/TRVERSE : E-070 (CONTINUED)

F - I N T E R V A L -			CORE	%	TYP1-	QAL	TEX-	GRAIN	FRAC-	STRUCTUR-1	ALTERATION	MINS	ORE-TYPE	MINS																
K L (UNITS = FT)			RECOV-	M	ROCK	FYING	MIN	TURES	CHARACS	TURE	H	H	H	H	ANY															
E A			ERY	I	TM	TM	MAT	TX	TX	F	C	%	M	T	ID	STK	DIP	A	A	A	A	A	MIN	A	A	A	MIN			
Y G FROM - TO			(FT.1)	X	TYPE	1	2	QK1	1	2	F	F	C	P	#	TK	1	AZM	RT	QZ	B1	CY	CB	MG	XX	PY	CP	6L	YY	SUMMARY
K F			ROCK	FOR	EN	RT	TM	QZ	TX	TX	S	R	S	O	DIP	F	T	ID	STK	DIP	KF	MU	CL	EP	HE	HA	PR	MO	SL	HA
E L			QUAL	MEM	V	Q	LC-	J	3	4	O	N	H	/	SML	I	2	AZM	RT		H	H	H	H	H	H	H	H	H	H
Y G			DESIG	AGE	COL						R	D	P	C			STRUCTUR-2			A	A	A	A	A	A	A	A	A	A	
R LTH	2237.0	2254.0	LT ALT'D SECT'S HAVE GRAN TEXT WITH QTZ/FELD(?) GEN <1MM COMP																											
R LTH	2237.0	2254.0	>50% OF RK.																											
N	2237.0	2254.0	X PBVS RF SH BR H B J D 3 SH 20 ** V3 ZE 71																											
L			PB << VV C 5 3 VQ E1 P5 71 V3 /																											
R LTH	2254.0	2280.0	SHATT'D HIGHLY VEINED WITH X-CROSSING MT ZEO-CALC-PYR-VNLTS.																											
R LTH	2254.0	2280.0	STR RED HEM ALT'N ENV ON VNLTS. RK FRIABLE. MAIN ALT'NS																											
R LTH	2254.0	2280.0	CHL-SILIC-SERK(?) APT 50-60% COMP OF QTZ, ZEO CALC, PYR VNS.																											
R LTH	2254.0	2280.0	QTZ VNS GEN 3-5CM THK, BIX'D CUT BY ZEO/CARB VNS. SOME BIX'S																											
R LTH	2254.0	2280.0	WITH CARB/ZEO FRAGS EG: 877-2178 FT.																											
R LTH	2254.0	2280.0	QTZ VNS TO 3CM THK INCR TO BTH CONT.																											
N	2254.0	2280.0	X PBVS RF KR BR D 3 VQ 80 63 V4 ZE 7=																											
L			PB << VV 5 2 VZ P4 P2 E2 V4 /																											
R LTH	2280.0	2287.0	STUBBY, CHL ALT'D HBL EUHEDRA TO 4MM CONP 10-15% IN DFD DK CHL																											
R LTH	2280.0	2287.0	ALT'D FN BR'D MTX OF ANDESITIC COMP PYR IS 2-3%.																											
R LTH	2280.0	2287.0	RED HEM ENV TO 4MM/SIDE ON PYR/CARB VNS. ONE HBL PHEND TO 1CM																											
R LTH	2280.0	2287.0	NOTED CONT AT 2287 MARKED BY STRG PYR (TO 10%), SHEARING AND																											
R LTH	2280.0	2287.0	STRG OR ZEO STAIN																											
P	2283.0	2287.0	PPHB MX PP J 1 L P ? V1 ZE 7+ 1 5																											
L			O P5 E3 V1 1 +																											
P	2287.0	2326.0	SKAR BD P 2 BD 75 63 V1 ZE 7= 6 A K 8																											
L			QL OR 2 BD 80 62 V1 6) L B 9 =																											
R SAM	2287.0	2287.3	HBL PORP.																											
R LTH	2287.0	2326.0	QTZ-PYR +/- EPI ALT'D, BANDED ANDRADITE SKARN. PYR, OR ZEO																											
R LTH	2287.0	2326.0	(LAVN) AND CALC MAIN FRAG FILLINGS BANDING DEFINED BY SLIGHT																											
R LTH	2287.0	2326.0	COL VAR IN SKARN.																											
R LTH	2287.0	2326.0	BDS IS 75 DEG @ 2309, 80 DEG @ 2320																											
R LTH	2287.0	2326.0	QTZ OCCURS IN WORMY FASH-THRO SK. PYR IS FINE DISS, PATCHES (W																											
R LTH	2287.0	2326.0	EPI) AND VNS TO 1CM WITH CARB. SK IS NON-LIMEY (IN MTX)																											
R LTH	2287.0	2326.0	BLK CARBON/GRAPHITE COMMON ON SRS AT CON ANG TO C/A.																											
R LTH	2287.0	2326.0	PYR INCR TO +10% FROM 2220-2226, WITH STRG CALC DISS IN PYR																											
R LTH	2287.0	2326.0	MASS.																											
R SAM	2307.0	2307.3	RED SKARN																											
P	2326.0	2361.5	PPDR P 2 VZ V3 ZE 7+ 6 A K 2																											
L			SA 6 SH 40 P2 P3 V6 Q 2 i +																											
R LTH	2326.0	2361.5	A LT GRN GRANULAR LOOKING QTZD-FELDSPATHIC RK WITH BANDING																											
R LTH	2326.0	2361.5	DUE TO SHEETED ZEO-CARB VNS. CAL ALT'D. TEXT VAGUE - PYR 3-4%																											
R LTH	2326.0	2361.5	TO 25%.																											
R LTH	2326.0	2361.5	RED-DR GARNET SKARN PATCHES INCR TO BTH CONTACT.																											
R LTH	2326.0	2361.5	ORIG RK UNCERTAIN - HAS INTR LODK - (IE: DIOGRITE) - SEE E-67																											
R LTH	2326.0	2361.5	FOR PARALLEL.																											
R LTH	2326.0	2361.5	SHEETED VNS AT 40-50 DEG VAGUE PORP'C TEXT. BLK CARB ON SHR																											

Island Copper Mine
ISLAND

DRILLHOLE/TRVERSE : E-070 (CONTINUED)

S U M M A R Y R E M A R K S

LOC STRG EPI VNS WITH BRN SPHAL. SPHAL ABD IN THIS SECT. RUNS 1-2% 590-670 AND +3% TO 800 FT. SP OCC AS BLK AND BRN RESINOUS VARIETIES. SP OCC DISSEM (BRN) AND IN EPI VNS (BLK) WITH PYR, ZEO AND MINOR PINK ENV. SOME LT ALT'N ENV ON PYR-SP VKLTS ENV TAN-GRN ALT'N FROM 775-803, MAY BE EPI ALT'N.

803-868

PBSD - BLK, GRV STRIPPED, WK LIMY, CARBONACEOUS, THIN BDD SANDY-SILTY ARG. BDS 0-60 DEG C/A. RK SHATT'D AND HEALED WITH CALC, ZEO, EPI PINK MIN (ENV) AND SPHAL (1-2%).
RK MOD SILIC'D FROM 835 FT. GEN LOW PYR. BDD GRADED.

868-907

PBTF - INT BDD SM LAP ANDES TUFF AND BLK/GRV STRIPPED ARG (75% TUFF) CUT BY CALC-ZEO-SPHAL VNS. MOD CHL-EPI ALT'D.

907-937

PBVS - BLK, LT GRN, WT, THIN BDD CHL-SILIC-EPI +/- SERIC ALT'D WK BLEACHED SANDY-SILTY SEDS AND CHERT BDS (POSS TUFF BDS).
PYR 2-4%, SOME LAYERING. BDD AVG 60 DEG C/A.
MAIN VNS WT ZEO, CALC, SILS, EPI.
SPOT OF PYRRHOTITE AT 935 FT.

937-958

PBTF - MOD CHL-EPI ALT'D LAP TUFF. PYR 1-2%. NON LIMY.

958-1027

PBTF - MASS GRN, GRV, CHL-EPI ALT'D CG AND FG ANDES ASH TUFF WITH DK CHL ALT'D X'AL COMP 5-10%. PYR 5-10%. PERV FINE WT ALT'N (SERIC?). MINOR SPTS SPHAL.

1027-1080

PBSD - SIM TO 907-937. BLK LAYERS COMP 30-40%, LOC TO 50% WITH 10% CHERTY LENSES. SPHAL WK, MAINLY IN GRN TUFF(?) BDS. BDD 0-45 DEG C/A.
ANOTHER PATCH OF PYRR AT 1075 FT.

1080-1179

PBTF - WK CHL-EPI ALT'D LG LAP AND VOLC BIX ANDES TUFF TO 1125 AND MASS GRN-GRV WK-MED CHL-EPI (+/- SERIC) ALT'D ANDES ASH TUFF TO 1179 FT. BLK CUSPATE (SHARDS) BLESS IN ASH TUFF 10-15%. PYR DISS 2-3%.

1179-1320

PBSD - GRV, GRN, WK SILIC'D AND BLEACHED, CHL-EPI (+/- SERIC) ALT'D, SANDY-SILTY THIN BDD (GRADED) SEDS WITH LAYERS DK GRN, CHL-EPI +/- SPHAL, PYR ALT'D TUFFS(?). BDD 40-80 DEG C/A - WK FOLDED. SP AND PY OCC LAYERED IN BDS, PREF BED BTMS (DIAGENETIC PYR?). MINOR PINK MIN WITH EPI. MAIN VNS CHL-EPI-PYR. QTZ-EPI-PYR, SPHAL-PYR, CALC-ZEO-GYPSUM.

Island Copper Mine
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DRILLHOLE/TRVERSE : E-070 (CONTINUED)

S U M M A R Y R E M A R K S

1320-1394

PBSD - MOD-INT SILIC'D, BLEACHED PYRITIC, BDD, SANDY-SILTY SEDS (PORCELLANITE) WITH BDS OF GRN, CHL +/- MAG, PYR ALT'D COARSE ASH TUFF. PYR 4-5%, LOC +10% IN THIN (<30CM) BDS. BDB 70-80% C/A. FIVE DISTINCT TUFF BDS, 2-30FT THK THRO SECT. TUFF AT 1505-1534, HAS STRG RED (HEM?) ALT'M ENV'S DN PYR VNS (+5% PYR) FAULT 1580-1586.

1594-1700

PBSD - STRG SILIC'D, BLEACHED & EPI ALT'D SEDS LACED WITH WT CALC-ZEO VNS. PYR ABT 5%. BDB 45-75 DEG C/A. GILS IN BIX VNS WITH CALC.

1700-1950

PBSD - BLEACHED AND GARNETIZED(?), SANDY-SILTY SIZED SEDS, VARIABLY EPI-PYR ALT'D. PYR 3-5, LOC 5-10%. RED-BRN (GARN?) ALT'D BDS, GEN MK-MOD LIMEY. MAIN VNS CALC, ZEO, PYR. MED-HIGHLY VNS/MICRO VN'S BDB 70-75 DEG C/A.

1950-2055

PPKB - MIXED MED-GRN'D HBL-FELD PORP AND FN GRN'D ANDES VOLC (TUFF?) WITH SHR/BIX CONTACTS. RED HEM(?) ENV ON QTZ-CARB-ZEO-PYR VNS. HIGH VN'D FROM 2000-2050.

2055-2280

PBVS - SHATT'D SHR'D, BIX'D SEDS AND VOLC RK WITH REMN GARN ALT'D SEDS NEAR TDP. STRG SILIC'D 2080-2102. FROM 2114, RK COMP 50% WT ZEO-CALC-QTZ VNS. SHATT TUFF 2180-2202 PORP ANDES (X'AL TUFF?) 2202-2237. V PYRITIC 2237-2254: STRG HEM(?) ALT'M ENV'S DN PYR-CALC-ZEO VNLTS 2254-2280.

2280-2287

PPKB - HBL PORP WITH LK-MED RED (HEM?) ENV DN PYR-CALC-ZEO VNS.

2287-2326

SKAR - QTZ-PYR +/- EPI ALT'D BANDED, ORANGE-RED GARNET SKARN HEALED WITH PYR, ZEO(OR), CALC. BDB AT 75-80 DEG C/A. SECT AVG 0.3% CU +/- ALTHOUGH CPY NOT NOTED. PROB MIXED IN WITH THE ABB(+10% PYR).

2326-2361.5

PPDR - EQUIGRAN, FELDSPATRIC INTR(?). SOME RED-OR GARN PATCHES, INCR TO BTM CONTACT. SHEETED ZEO-CALC VNS. TEXT VAGUE. PYR TO +5% & CPY (ABT 0.4-0.5% CU). STRG SHR/FLT AT BTM CONTACT.

2361.5-2365

SKAR - OR-RED GARN SK - BLK SPTS (NDT SP) CPY(?) - 0.21% CU.

2365-2403

PPDF - SHATT'D, MED GRN'D, CHL-SERIC ALT'D, ZEO-CALC VND,

Island Copper Mine
ISLAND

DRILLHOLE/TRVERSE : E-070 (CONTINUED)

SUMMARY REMARKS

QTZ-FELD PORP. MAFICS <5%, MINOR BIO PHENOS. QFP MIXED WITH
MED-FN GR'D, EQUIGRAN QTZ-FELD INTR WITH BIX'D CONTACTS. PYR
+5%. DISSEM SOFT BLK MIN (NOT SPHAL). NO CPY (<0.1% CU).

2403-2422

SKAR - GRN-YELLOW GARNET SK CUT BY QFP. HIGHLY LIMEY PYRITIC
2404-2406 CPY W PYR (0.3% CU +/-). TUFF FROM 2412-2419.

2422-2480

MARB - THIN BDD, GRN, WT, MED X'AL MARBLE (CALCITIC). BDC
70-90% C/A.

2480-2487

SKAR - MIXED YELLOW-GRN AND RED-BRN GARN SK. RK CRUMBLY
CORRODED LOOKING. SOME BANDS BLK SPHAL AT BTM CONT. 0.18% CU
+/-

2487-2535

PPQF/1560 - MIXED COARSE QFP (GR-GRY) AND GRN GRANITIC INTR. PYR
RUNS 1-5% DISSEM. MAFICS GEN 5-10%. CHL-EPI ALT'D.

2535

END OF HOLE - STOPPED DUE TO POOR GRND - RISK OF LOSING DRILL
STRING.

DIAMOND DRILL HOLE ASSAYS

9:54 FRIDAY, FEBRUARY 20, 1971

HOLE=E-070

FROM	TO	CU PCT	MO PCT	FE PCT	ALU PPM	AG PPM	PB PCT	ZN PCT	TGS
40.0	50.0	0.05	0.008	6.2	-0.010	0.200	0.025	0.022	4266
80.0	90.0	0.04	0.007	6.0	0.010	0.010	0.112	0.089	4267
110.0	120.0	0.06	0.006	7.4	0.010	7.710	0.928	1.372	4272
120.0	130.0	0.10	0.006	7.7	0.010	8.450	0.457	0.609	4268
130.0	140.0	0.07	0.007	8.4	-0.010	3.100	0.295	0.356	4271
140.0	150.0	0.05	0.006	7.1	-0.010	1.470	0.131	0.210	4274
150.0	160.0	0.07	0.007	6.6	0.010	2.820	0.300	0.473	4275
160.0	170.0	0.04	0.007	6.7	0.010	0.550	0.112	0.187	4269
200.0	210.0	0.05	0.007	6.7	-0.010	-0.010	0.057	0.087	4270
240.0	250.0	0.04	0.008	5.6	-0.010	0.370	0.063	0.123	4271
280.0	290.0	0.05	0.008	6.0	-0.010	0.800	0.123	0.266	4276
320.0	330.0	0.04	0.010	5.2	0.010	1.310	0.021	0.341	4277
360.0	370.0	0.06	0.007	7.2	-0.010	3.010	0.285	1.728	4278
400.0	410.0	0.04	0.007	8.6	-0.010	0.650	0.037	0.039	4261
440.0	450.0	0.04	0.007	6.8	-0.010	0.030	0.015	0.225	4279
480.0	490.0	0.04	0.007	7.4	0.010	0.640	0.120	0.160	4262
520.0	530.0	0.04	0.008	8.9	0.020	0.680	0.022	0.530	4281
560.0	570.0	0.06	0.008	12.5	0.010	0.860	0.008	0.120	4263
600.0	610.0	0.05	0.008	7.0	0.010	1.350	0.022	0.797	4282
610.0	620.0	0.04	0.008	6.5	0.050	1.440	0.006	0.496	4283
620.0	630.0	0.05	0.008	12.8	0.110	6.270	0.009	1.911	4284
630.0	640.0	0.04	0.007	7.3	0.010	16.000	0.012	0.950	4264
640.0	650.0	0.05	0.008	9.0	0.070	1.420	0.007	0.909	4285
650.0	660.0	0.05	0.007	9.8	0.010	1.030	0.007	0.991	4286
660.0	670.0	0.05	0.007	9.1	0.010	0.450	0.006	0.822	4287
670.0	680.0	0.07	0.007	10.3	0.010	1.330	0.009	1.939	4288
680.0	690.0	0.06	0.006	10.5	-0.010	1.100	0.010	1.810	4289
690.0	700.0	0.06	0.007	9.6	0.010	0.590	0.010	1.340	4280
720.0	730.0	0.04	0.007	7.5	0.020	0.820	0.006	0.230	4265
730.0	740.0	0.05	0.007	7.8	0.030	3.970	0.007	1.848	4291
740.0	750.0	0.05	0.008	6.0	.	.	.	.	4299
750.0	760.0	0.04	0.009	5.9	.	.	.	.	4300
760.0	770.0	0.05	0.007	7.3	0.010	1.370	0.005	1.474	4292
770.0	780.0	0.06	0.008	8.2	.	.	.	.	4301
780.0	790.0	0.05	0.007	7.9	-0.010	1.160	0.005	1.465	4293
790.0	800.0	0.06	0.006	8.4	0.010	1.800	0.004	1.811	4294
800.0	810.0	0.05	0.009	7.2	0.010	1.040	0.004	0.984	4295
810.0	820.0	0.06	0.011	7.7	.	.	.	.	4302
820.0	830.0	0.05	0.012	6.9	.	.	.	.	4303
830.0	840.0	0.05	0.013	7.6	.	.	.	.	4304
840.0	850.0	0.04	0.011	6.6	0.010	0.450	0.004	0.672	4296
840.0	850.0	0.05	0.013	7.1	.	.	.	.	4305
860.0	870.0	0.05	0.011	6.7	.	.	.	.	4306
870.0	880.0	0.06	0.007	9.6	.	.	.	.	4307
880.0	890.0	0.04	0.008	8.0	.	.	.	.	4308
890.0	900.0	0.04	0.008	7.5	.	.	.	.	4309
900.0	910.0	0.06	0.011	6.5	.	.	.	.	4310
910.0	920.0	0.05	0.010	6.3	.	.	.	.	4311
920.0	930.0	0.05	0.010	6.5	.	.	0.004	0.160	4312
930.0	940.0	0.05	0.010	5.7	.	.	0.002	0.150	4313
940.0	950.0	0.05	0.008	8.8	.	.	0.004	0.038	4314
950.0	960.0	0.05	0.008	9.1	.	.	0.004	0.035	4315

DIAMOND DRILL HOLE ASSAYS

9:54 FRIDAY, FEBRUARY 20, 1957

HOLE#E-070

FROM	TO	CU PCT	MO PCT	FE PCT	AU PPM	AG PPM	PR PCT	ZN PCT	TAP
960.0	970.0	0.05	0.007	9.3	.	.	0.005	0.087	4316
970.0	980.0	0.06	0.007	8.6	.	.	0.006	0.120	4317
980.0	990.0	0.05	0.006	9.1	.	.	0.005	0.140	4318
990.0	1000.0	0.05	0.007	8.9	.	.	.	.	4319
1000.0	1010.0	0.05	0.007	9.3	.	.	.	.	4320
1010.0	1020.0	0.04	0.007	8.3	.	.	.	.	4341
1020.0	1030.0	0.05	0.007	7.9	.	.	.	.	4342
1030.0	1040.0	0.05	0.007	6.3	.	.	.	.	4343
1040.0	1050.0	0.05	0.007	6.6	.	.	.	.	4344
1050.0	1060.0	0.05	0.009	6.9	.	.	.	.	4297
1060.0	1070.0	.	.	.	.	.	.	.	4298
1070.0	1080.0	0.04	0.009	5.4	.	.	.	.	4345
1080.0	1090.0	0.05	0.008	7.1	.	.	.	.	4346
1090.0	1100.0	0.05	0.007	8.1	.	.	.	.	4347
1100.0	1110.0	0.05	0.007	5.7	.	.	.	.	4348
1110.0	1120.0	0.05	0.007	8.4	.	.	.	.	4349
1120.0	1130.0	0.05	0.007	9.1	.	.	.	.	4350
1130.0	1140.0	0.05	0.007	9.0	.	.	.	.	4351
1140.0	1150.0	0.05	0.007	9.7	.	.	.	.	4352
1150.0	1160.0	0.05	0.007	9.8	.	.	.	.	4353
1170.0	1180.0	0.07	0.008	9.4	.	.	.	.	4354
1180.0	1190.0	0.10	0.008	6.8	.	.	.	.	4355
1190.0	1200.0	0.15	0.009	5.2	.	.	.	.	4356
1200.0	1210.0	0.14	0.007	7.5	.	.	.	.	4357
1210.0	1220.0	0.07	0.009	5.5	.	.	.	.	4358
1220.0	1230.0	0.06	0.008	6.2	.	.	.	.	4359
1230.0	1240.0	0.05	0.010	4.5	.	.	.	.	4401
1240.0	1250.0	0.06	0.007	6.1	.	.	.	.	4402
1250.0	1260.0	0.08	0.007	6.9	.	.	.	.	4403
1260.0	1270.0	0.06	0.008	5.8	.	.	.	.	4404
1270.0	1280.0	0.07	0.009	5.8	.	.	.	.	4405
1280.0	1290.0	0.05	0.008	5.4	.	.	.	.	4406
1290.0	1300.0	0.05	0.009	6.2	.	.	.	.	4407
1300.0	1310.0	0.06	0.010	5.2	.	.	.	.	4408
1310.0	1320.0	0.05	0.009	4.1	.	.	.	.	4409
1320.0	1330.0	0.05	0.009	5.2	.	.	.	.	4410
1330.0	1340.0	0.05	0.009	4.0	.	.	.	.	4411
1340.0	1350.0	0.50	0.007	4.9	.	.	.	.	4412
1350.0	1360.0	0.08	0.008	6.3	.	.	.	.	4413
1360.0	1370.0	0.07	0.008	6.1	.	.	.	.	4414
1370.0	1380.0	0.11	0.009	5.5	.	.	.	.	4415
1380.0	1390.0	0.11	0.007	6.1	.	.	.	.	4416
1390.0	1400.0	0.06	0.009	3.6	.	.	.	.	4417
1420.0	1430.0	0.06	0.006	6.3	.	.	.	.	4418
1460.0	1470.0	0.05	0.006	5.6	.	.	.	.	4419
1500.0	1510.0	0.06	0.006	6.0	.	.	.	.	4420
1540.0	1550.0	0.07	0.007	5.0	.	.	.	.	4421
1580.0	1590.0	0.08	0.008	3.7	.	.	.	.	4422
1620.0	1630.0	0.12	0.007	5.2	.	.	.	.	4423
1660.0	1670.0	0.12	0.007	5.1	.	.	.	.	4424
1700.0	1710.0	0.12	0.006	5.8	4425
1740.0	1750.0	0.11	0.007	5.8	4426

DIAMOND DRILL HOLE ASSAYS

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9:54 FRIDAY, FEBRUARY 20, 1967

HOLE=E-070

FROM	TO	CU PCT	MO PCT	FE PCT	AU PPM	AG PPM	PP PCT	ZN PCT	TR
1780.0	1790.0	0.08	0.007	4.2	.	.	.	.	4495
1800.0	1810.0	0.09	0.009	4.5	.	.	.	.	4496
1810.0	1820.0	0.07	0.008	2.5	.	.	.	.	4497
1820.0	1830.0	0.09	0.007	4.9	.	.	.	.	4416
1830.0	1840.0	0.18	0.009	6.6	.	.	.	.	4494
1840.0	1850.0	0.13	0.009	5.3	.	.	.	.	4495
1850.0	1860.0	0.09	0.008	6.1	.	.	.	.	4496
1860.0	1870.0	0.11	0.009	3.7	.	.	.	.	4419
1870.0	1880.0	0.12	0.009	3.9	.	.	.	.	4497
1880.0	1890.0	0.11	0.008	7.4	.	.	.	.	4498
1890.0	1900.0	0.10	0.009	4.8	.	.	.	.	4499
1900.0	1910.0	0.11	0.008	5.9	.	.	.	.	4420
1910.0	1920.0	0.10	0.010	4.6	.	.	.	.	4500
1920.0	1930.0	0.08	0.011	4.4	.	.	.	.	4549
1930.0	1940.0	0.08	0.010	5.6	.	.	.	.	4550
1940.0	1950.0	0.13	0.006	6.7	.	.	.	.	4421
1950.0	1960.0	0.10	0.009	5.1	.	.	.	.	4580
1960.0	1970.0	0.11	0.010	6.0	.	.	.	.	4581
1970.0	1980.0	0.12	0.010	6.6	.	.	.	.	4582
1980.0	1990.0	0.11	0.008	5.4	.	.	.	.	4422
1990.0	2000.0	0.14	0.010	5.5	.	.	.	.	4583
2000.0	2010.0	0.13	0.012	2.9	.	.	.	.	4584
2010.0	2020.0	0.33	0.014	3.9	.	.	.	.	4585
2020.0	2030.0	0.10	0.007	3.3	.	.	.	.	4423
2030.0	2040.0	0.08	0.010	3.8	.	.	.	.	4551
2040.0	2050.0	0.11	0.010	3.8	.	.	.	.	4552
2050.0	2060.0	0.12	0.011	6.0	.	.	.	.	4553
2060.0	2070.0	0.11	0.016	5.0	.	.	.	.	4424
2070.0	2080.0	0.12	0.013	4.5	.	.	.	.	4554
2080.0	2090.0	0.08	0.011	2.9	.	.	.	.	4555
2090.0	2100.0	0.06	0.013	2.5	.	.	.	.	4556
2100.0	2110.0	0.11	0.012	6.2	.	.	.	.	4425
2110.0	2120.0	0.12	0.011	6.9	.	.	.	.	4557
2120.0	2130.0	0.09	0.010	2.5	.	.	.	.	4586
2130.0	2140.0	0.20	0.016	4.1	.	.	.	.	4587
2140.0	2150.0	0.08	0.012	3.0	.	.	.	.	4426
2150.0	2160.0	0.17	0.010	6.0	.	.	.	.	4588
2160.0	2170.0	0.15	0.011	5.0	.	.	.	.	4589
2170.0	2180.0	0.25	0.013	5.0	.	.	.	.	4590
2180.0	2190.0	0.12	0.011	4.2	.	.	.	.	4427
2190.0	2200.0	0.14	0.010	6.1	.	.	.	.	4591
2200.0	2210.0	0.16	0.010	6.1	.	.	.	.	4592
2210.0	2220.0	0.14	0.010	6.0	.	.	.	.	4593
2220.0	2230.0	0.21	0.008	9.6	.	.	.	.	4428
2230.0	2240.0	0.12	0.011	3.5	.	.	.	.	4594
2240.0	2250.0	0.28	0.008	10.7	.	.	.	.	4596
2250.0	2260.0	0.19	0.017	6.1	.	.	.	.	4560
2260.0	2270.0	0.14	0.012	4.3	0.010	0.900	0.005	0.016	4429
2270.0	2279.0	0.15	0.015	4.3	0.010	0.890	0.007	0.018	4502
2279.0	2280.0	0.20	0.015	4.1	.	.	.	.	4558
2280.0	2287.0	0.18	0.010	6.9	0.010	1.070	0.005	0.024	4503
2287.0	2290.0	0.33	0.011	9.6	0.020	2.320	0.004	0.262	4504

DIAMOND DRILL HOLE ASSAYS

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9:54 FRIDAY, FEBRUARY 20, 1987

-----HOLE=E-070-----

FROM	TO	CU PCT	MO PCT	FE PCT	AU PPM	AG PPM	PB PCT	ZN PCT	YAG
2290.0	2295.0	0.30	0.008	10.7	0.060	3.400	0.008	0.260	3537
2295.0	2300.0	0.20	0.009	9.4	0.020	1.450	0.004	0.158	4448
2300.0	2305.0	0.25	0.010	10.3	0.040	2.600	0.005	0.350	3527
2305.0	2310.0	0.13	0.016	4.2	0.020	1.720	0.003	0.420	4430
2310.0	2320.0	0.22	0.009	9.4	0.020	1.580	0.006	0.265	4447
2320.0	2325.0	0.53	0.008	11.8	0.120	7.900	0.007	1.100	3528
2325.0	2340.0	0.45	0.025	3.4	0.050	1.860	0.002	0.096	4448
2340.0	2350.0	0.29	0.024	4.3	0.020	1.540	0.005	0.104	4431
2350.0	2360.0	0.26	0.033	4.5	0.020	1.210	0.002	0.020	4449
2360.0	2365.0	0.21	0.011	9.4	0.010	1.750	0.002	0.172	4450
2365.0	2370.0	0.09	0.011	3.6	-0.010	0.680	0.002	0.031	4451
2370.0	2380.0	0.04	0.012	2.1	.	.	.	.	4559
2380.0	2390.0	0.06	0.012	1.9	0.010	0.230	0.002	0.024	4432
2390.0	2403.0	0.05	0.012	1.5	0.010	0.230	0.008	0.045	4452
2403.0	2413.0	0.20	0.013	6.1	0.010	2.320	0.002	0.068	4453
2407.0	2407.5	0.37	0.001	5.1	.	.	0.002	0.150	3530
2413.0	2418.0	0.33	0.018	3.8	-0.010	3.130	0.002	0.037	4454
2418.0	2423.0	0.32	0.007	8.4	0.020	5.500	0.004	0.445	4455
2423.0	2430.0	0.06	0.009	0.7	-0.010	0.490	0.005	0.069	4433
2430.0	2440.0	0.08	0.008	1.3	-0.010	0.830	0.006	0.151	4456
2440.0	2450.0	0.07	0.008	0.7	0.010	1.040	0.006	0.073	4457
2450.0	2460.0	0.05	0.008	0.2	-0.010	0.190	0.007	0.030	4458
2460.0	2470.0	0.06	0.008	0.8	0.010	0.600	0.005	0.099	4434
2470.0	2480.0	0.10	0.008	1.4	-0.010	1.840	0.006	0.083	4459
2480.0	2487.0	0.18	0.007	12.1	-0.010	1.420	0.005	0.340	4460
2487.0	2500.0	0.06	0.010	3.5	-0.010	0.200	0.002	0.029	4461
2500.0	2510.0	0.05	0.009	2.2	-0.010	0.170	0.007	0.017	4435
2510.0	2520.0	0.04	0.010	3.8	.	.	.	.	4561
2520.0	2530.0	0.04	0.011	3.4	.	.	.	.	4562
2530.0	2535.0	0.05	0.010	3.1	.	.	.	.	4563

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE # : ED

DATE: 11th JAN 197 LOGGED BY: MW

FOOTKES (F.T.)		INTERVAL		CORE REC. # (in)	% ROCK	Length of Pieces (inches)	R. Q. D.	# of Fails	F.M. 100'
FROM	TO	INCHES	FEET						
24	36	144		139		20			
36	41	60		54		23			
41	44	36		36		0			
44	47	36		33		5			
47	51	48		41		0			
51	54.5	42		36		0			
54.5	62	90		88		41			
62	64.5	30		30		0			
64.5	66.5	24		24		0			
66.5	69	30		33		0			
69	74	60		41		6			
74	80	72		80		23			
80	84	48		34		10			
84	94	120		108		69			
94	104	120		117		61			
104	108.5	54		60		0			
108.5	115	90		70		16			
115	125	120		110		39			
125	136	120		106		77			
136	141	72		72		25			
141	146	60		68		41			
146	155	109		100		60			
155	165	120		128		38			
165	168	36		40		16			
168	176	84		64		10			
176	182	84		77		31			
182	196	48		55		4			
196	196	120		119		57			
196	202	72		24		5			
202	202.5	6		6		0			
202.5	211.5	108		94		39			
211.5	221.5	120		119		82			
221.5	227	66		56		47			
227	238	132		124		47			
238	247	108		98		53			

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE # : E 70

DATE : 11/20/67

LOGGED BY : N.L.

FOOTINGS (FT)		INTERVAL		CORE REC'D (in)	%	TOTAL PIECES (LINES)	R. Q. D.	F. F. (ft)	F. F. (in)
From	To	From	To						
247	253	60		74		21			
253	255	24		15		0			
255	266	106		92		26			
266	273	60		82		30			
273	283	170		117		69			
283	293	120		120		78			
293	297	48		56		8			
297	302	60		64		16			
302	305	30		18		0			
305	311	72		75		27			
311	318	84		84		32			
318	324	72		58		20			
324	328	48		48		13			
328	336	96		85		53			
336	346	120		36		8			
346	349	36		30		0			
349	353	48		47		9			
353	353.5	6		6		0			
353.5	355	18		32		0			
355	363	66		29		0			
363	363	24		10		0			
363	367	48		50		9			
367	378	132		93		4			
378	382	48		29		0			
382	392	120		112		48			
392	402	120		120		64			
402	410	96		110		40			
410	420	120		105		43			
420	426.5	78		82		32			
426.5	432	60		56		10			
432	437	60		42		16			
437	444	84		84		35			
444	449	60		56		24			
449	456	94		82		55			
456	461	60		48		20			

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE # : E70

DATE : 12/1/57

LOGGED BY : MW

Footings (ft)		Interval Inches	CORE Recovery (%)	% R.Q.D.	Total Pieces (count)	R. Q. D.	F. of Core	F. of Core
From	To							
461	466	60	53		16			
466	476	120	99		34			
476	481	60	38		0			
481	488	84	85		32			
488	499	132	124		36			
499	502	36	30		4			
502	510	84	84		32			
510	519	84	80		8			
519	527	108	104		58			
527	535	84	80		38			
535	540	60	48		11			
540	550	120	110		78			
550	560	120	50		25			
560	561	12	7		0			
561	571	120	115		62			
571	581	120	104		35			
581	590	108	87		40			
590	594	48	34		7			
594	599	60	53		32			
599	603	48	46		4			
603	610	84	73		45			
610	617	84	82		57			
617	626.5	114	104		52			
626.5	630.5	48	35		4			
630.5	637	78	74		32			
637	642	60	46		24			
642	646	48	42		5			
646	650	48	34		11			
650	651	12	11		6			
651	661	120	106		81			
661	669	96	83		32			
669	674	60	47		5			
674	688	168	36		9			
688	694.5	78	82		39			
694.5	698	42	27		0			

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE # : E 70

DATE : 13th Jun 197

LOGGED BY : MW

Footings (Ft)		INTERVAL		CORE Rec. (in)	% Rec.	Total Pieces	Length of (inches)	R. Q. D.	# of Figs	Ft in
From	To	INCHES	CORE RECORD							
698	707	108		105		25				
707	708	12		12		0				
708	715	84		78		23				
715	718	36		26		4				
718	724	72		72		4				
724	729	60		60		31				
729	734	36		48		17				
734	741	84		65		0				
741	748	84		69		0				
748	754	72		60		0				
754	756	24		12		0				
756	759	36		25		0				
759	761	24		20		0				
761	767	72		61		13				
767	776	108		93		14				
776	786	120		101		53				
786	796	120		117		91				
796	806	120		107		62				
806	813	84		78		13				
813	820	84		70		17				
820	827	84		72		7				
827	837	120		114		77				
837	847	120		102		38				
847	854	84		87		55				
854	861	84		76		12				
861	870	108		68		44				
870	878	90		89		54				
878	887	108		90		25				
887	892	60		45		0				
892	902	120		100		14				
902	907	60		41		12				
907	915	96		95		52				
915	925	120		90		20				
925	933	96		90		20				
933	935	24		26		0				

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE # : E70

DATE : 14TH JAN

LOGGED BY : MW

STRIKES (FT)		INTERVAL		CORE Rec. %	% Rec'd	CORRECTION IN FEET	R. Q. D.	# OF FACES	FAC. COR.
FROM	TO	INCHES	CONV. INCHES						
735	949	108		100		56			
744	949	60		52		82			
749	957	96		71		12			
757	967	120		102		69			
767	977	120		116		83			
777	997	120		120		82			
787	997	120		115		90			
797	1007	120		120		72			
1007	1011.5	64		66		31			
1011.5	1012.5	12		8		0			
1012.5	1023	126		122		30			
1023	1033	120		108		52			
1033	1043	120		115		45			
1043	1053	120		97		20			
1053	1058	60		67		21			
1058	1067	108		95		71			
1067	1074	108		74		53			
1074	1084	120		115		91			
084	1094	120		108		38			
094	1104	120		109		52			
104	1114	120		118		29			
114	1124	120		121		84			
124	1132	96		88		66			
1132	1142	120		105		51			
1142	1152	120		119		99			
152	1154	24		27		14			
1154	1164	120		115		94			
1164	1174	120		117		20			
1174	1179	60		45		5			
1179	1188	108		103		12			
1188	1198	120		109		43			
1198	1204.5	78		64		40			
1204.5	1214	114		113		63			
1214	1221	84		83		61			

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE # : E 70

DATE: 16TH JAN

LOGGED BY: MW

FOOTAGES (FT)		INTERVAL		CORE REC. # (IN)	% REC.	CUMUL. LENGTH OF PIECES (INCHES)		R. Q. D.			# of PIECES	FRAC. 100%
FROM	TO	INCHES	CUM. INCHES			4"	4"	4"	4"	4"		
1221	1233	144		115		18						
1233	1243	120		118		52						
1243	1253	120		107		41						
1253	1263	120		106		51						
1263	1273	120		104		35						
1273	1282	108		86		20						
1282	1292	120		105		37						
1292	1301	108		108		41						
1301	1304	36		44		22						
1304	1314	120		115		51						
1314	1320	78		64		15						
1320	1329	102		96		39						
1329	1339	120		108		59						
1339	1349	120		116		39						
1349	1359	120		114		44						
1359	1369	120		116		42						
1369	1379	120		117		57						
1379	1389	120		118		67						
1389	1399	120		114		51						
1399	1409	120		114		35						
1409	1419	120		118		37						
1419	1429	120		110		17						
1429	1439	120		111		12						
1439	1449	120		102		16						
1449	1459	120		118		32						
1459	1469	120		110		46						
1469	1477	96		72		0						
1477	1486	108		112		55						
1486	1496	120		117		52						
1496	1506	120		117		44						
1506	1516	120		115		40						
1516	1526	120		116		26						
1526	1536	120		116		26						
1536	1546	120		117		19						
1546	1556	120		112		20						

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE # : E 70

DATE: 19TH JAN

LOGGED BY: MW

FEET/INCHES (FT)		INTERVAL		CORE REC. # (IN)	% REC.	CYCLES PIECES	LENGTHS (INCHES)	R. Q. D.		# OF FILLS	SPEC. INSTR.
FROM	TO	INCHES	COM. INCHES					7"	4"		
1556	1566	120		114		32					
1566	1576	120		107		9					
1576	1586	120		110		0					
1586	1592	72		72		0					
1592	1602	120		110		19					
1602	1612	120		86		0					
1612	1616	48		46		14					
1616	1626	120		108		26					
1626	1636	120		115		66					
1636	1645	108		108		53					
1645	1655	120		120		86					
1655	1665	120		109		25					
1665	1669	48		46		16					
1669	1679	120		105		12					
1679	1680	12		11		0					
1680	1689	108		106		0					
1689	1697	96		94		8					
1697	1706	108		112		0					
1706	1710	48		36		0					
1710	1720	120		117		16					
1720	1730	120		111		0					
1730	1740	120		114		19					
1740	1750	120		117		17					
1750	1760	120		97		5					
1760	1770	120		113		12					
1770	1780	120		116		81					
1780	1790	120		110		0					
1790	1800	120		114		6					
1800	1810	120		116		0					
1810	1820	120		110		0					
1820	1830	120		110		12					
1830	1840	120		113		13					
1840	1842	24		9		0					
1842	1851	108		108		41					
1851	1852	12		7		0					

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE # : E70

DATE: 70TH JAN

LOGGED BY: MW

FOOTAGES (FT)		INTERVAL		CORE REC. # (IN)	% REC'D	CYCLIC PIECES (FRAMES)	R. Q. D.			# of FATHS	SPEC. NO.
FROM	TO	INCHES					4"				
1852	1854	24		20		0					
1854	1864	120		110		21					
1864	1874	120		111		0					
1874	1884	120		113		10					
1884	1894	120		115		24					
1894	1899.5	66		65		0					
1899.5	1910	126		118		24					
1910	1920	120		119		19					
1920	1930	120		118		0					
1930	1940	120		113		0					
1940	1950	120		115		12					
1950	1960	120		119		8					
1960	1968	96		86		0					
1968	1977	108		112		27					
1977	1987	120		120		29					
1987	1997	120		120		62					
1997	2007	120		118		53					
2007	2017	120		120		44					
2017	2028	132		131		34					
2028	2030	24		24		0					
2030	2038	96		97		47					
2038	2048	120		117		41					
2048	2058	120		119		28					
2058	2066	84		78		11					
2066	2076	108		97		9					
2076	2084	120		120		40					
2084	2094	120		122		21					
2094	2104	120		113		11					
2104	2114	120		112		20					
2114	2124	120		118		40					
2124	2134	120		114		0					
2134	2144	120		114		15					
2144	2154	120		107		60					
2154	2155	12		14		7					
2155	2165	120		118		47					

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE # : 110

DATE : 11/10

LOGGED BY : J. L.

FOOTAGES (FT)		INTERVAL		CORE REC. # (IN)	% RECT	CORRECTION PIECES (INCHES)	R. Q. D.			# OF CORES	FRAC. INSTR.
FROM	TO	INCHES	CUM INCHES				1'	4'	10'		
2165	2175	120		120		74			4		
2175	2185	120		120		74					
2185	2195	120		117		52					
2195	2205	120		115		45					
2205	2215	120		117		13					
2215	2225	120		116		32					
2225	2235	120		114		11					
2235	2244	108		104		20					
2244	2254	120		120		28					
2254	2261	84		70		7					
2261	2271	120		118		17					
2271	2281	120		120		50					
2281	2291	120		117		25					
2291	2297	72		62		7					
2297	2307	72		73		35					
2307	2309	72		76		0					
2309	2310	60		58		22					
2310	2316	74		14		0					
2316	2324	96		70		0					
2324	2331	84		90		52					
2331	2334	36		23		12					
2334	2344	120		120		27					
2344	2354	120		120		60					
2354	2363	108		98		40					
2363	2369	60		62		29					
2369	2373	60		74		28					
2373	2379	60		60		19					
2379	2388	120		122		14					
2388	2398	120		124		28					
2398	2408	120		120		18					
2408	2418	120		99		0					
2418	2428	120		116		61					
2428	2438	120		120		99					
2438	2445	84		72		33					
2445	2456	120		114		58					

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE # : E-70

DATE : 7th Nov 1977 LOGGED BY : MW

ROCKES (FT)		INTERVAL		CORE REC. # (IN)	% RECY	CUMUL. LENGTHS (INCHES)	R. Q. D.		# of FRAG.	FR. 10% RECY
FROM	TO	INCHES	CUM. INCHES				4"	4"		
2455	2469	48		50		74	4"			
2469	2466	84		67		40				
2466	2476	120		50		100				
2476	2477	12		6		25				
2477	2486	109		110		0				
2486	2496	170		112		76				
2496	2506	170		120		40				
2506	2516	170		111		8				
2516	2526	170		116		5				
2526	2535	108		118		0				

NO. 5
 RECEIVED

MAGNETIC SUSCEPTIBILITY

HOLE: E 70

INTERVAL START	+ 2'	+ 4'	+ 6'	+ 8'	INTERVAL AVERAGE (CGS UNITS)
20	/	/	/	/	0
30	/	/	/	/	0
40	/	/	/	/	0
50	/	/	/	/	0
60	/	/	/	/	0
70	/	/	/	/	0
80	/	/	/	/	0
90	/	/	/	/	0
100	/	/	/	/	0
110	/	/	/	/	0
120	/	/	/	/	0
130	/	/	/	/	0
140	/	/	/	/	0
150	/	/	/	/	0
160	/	/	/	/	0
170	/	/	/	/	0
180	/	/	/	/	0
190	/	/	/	/	0
200	/	/	/	/	0
210	/	/	/	/	0
220	/	/	/	/	0
230	/	/	/	/	0
240	/	/	/	/	0
250	/	/	/	/	0
260	/	/	/	/	0
270	/	/	/	/	0
280	/	/	/	/	0
290	/	/	/	/	0
300	/	/	/	/	0
310	/	/	/	/	0
320	/	/	/	/	0
330	/	/	/	/	0
340	/	/	/	/	0
350	/	/	/	/	0
360	/	/	/	/	0

MAGNETIC SUSCEPTIBILITY

HOLE # 70

INTERVAL START	+ 2'	+ 4'	+ 6'	+ 8'	INTERVAL AVERAGE (CGS UNITS)
430					0
440					0
450					0
460					0
470					0
480					0
490					0
500					0
510					0
520					0
530					0
540					0
550					0
560					0
570					0
580					0
590					0
600					0
610					0
620					0
630					0
640					0
650					0
660					0
670					0
680					0
690					0
700					0
710					0
720					0
730					0
740					0
750					0

MAGNETIC SUSCEPTIBILITY

HOLE: E 70

INTERVAL START	+ 2'	+ 4'	+ 6'	+ 8'	INTERVAL AVERAGE (CGS UNITS)
760	/	/	/	/	0
770	/	/	/	/	0
780	/	/	/	/	0
790	/	/	/	/	0
800	/	/	/	/	0
810	/	/	/	/	0
820	/	/	/	/	0
830	/	/	/	/	0
840	/	/	/	/	0
850	/	/	/	/	0
860	/	/	/	/	0
870	/	1.2	3.6	.98	1.1
880	/	/	/	/	0
890	/	/	/	/	0
900	/	/	/	/	0
910	/	/	/	/	0
920	/	/	/	/	0
930	/	/	/	/	0
940	/	/	/	/	0
950	/	/	/	/	0
960	/	/	/	/	0
970	/	/	/	/	0
980	/	/	/	/	0
990	/	/	/	/	0
1000	/	/	/	/	0
1010	/	/	.70	.25	.69
1020	.35	.52	.75	.32	.72
1030	.66	.41	.79	.43	.73
1040	.46	.49	.59	.51	.68
1050	.56	.51	.47	.51	.60
1060	.50	.49	.50	.47	.69
1070	/	/	/	/	0
1080	/	/	/	/	0
1090	/	/	/	/	0
1100	/	/	/	/	0
1110	/	/	/	/	0
1120	/	/	/	/	0

MAGNETIC SUSCEPTIBILITY

HOLE: E-70

INTERVAL START	+ 2'	+ 4'	+ 6'	+ 8'	INTERVAL AVERAGE (CG UNIT)
1120 /					0
1130	/				0
1140	/				0
1150	/				0
1160	/				0
1170	/	/	/	/	0
1180	/	/	/	/	0
1190	/	/	/	/	0
1200	/	/	/	/	0
1210	/	/	/	/	0
1220	/	/	/	/	0
1230	/	/	/	/	0
1240	/	/	/	/	0
1250	/	/	/	/	0
1260	/	/	/	/	0
1270	/	/	/	/	0
1280	/	/	/	/	0
1290	/	/	/	/	0
1300	/	/	/	/	0
1310	/	/	/	/	0
1320	/	/	/	/	0
1330	/	/	/	/	0
1340	/	/	/	/	0
1350	/	/	/	/	0
1360: 0					0
1370					0
1380					0
1390					0
1400					0
1410					0
1420					0
1430					0
1440					0
1450					0
1460					0
1470					0
1480					0
1490					0

1202
1302

MAGNETIC SUSCEPTIBILITY

HOLE: E 70

INTERVAL START	+ 2'	+ 4'	+ 6'	+ 8'	INTERVAL AVERAGE (CGS UNITS)
1550					Ø
1510					Ø
1520					Ø
1530					Ø
1540	/	/	/	/	Ø
1550	/	/	/	/	Ø
1560	/	/	/	/	Ø
1570	/	/	/	/	Ø
1580	/	/	/	/	Ø
1590	/	/	/	/	Ø
1600	/	/	/	/	Ø
1610	/	/	/	/	Ø
1620	/	/	/	/	Ø
1630	/	/	/	/	Ø
1640	/	/	/	/	Ø
1650	/	/	/	/	Ø
1660	/	/	/	/	Ø
1670	/	/	/	/	Ø
1680	/	/	/	/	Ø
1690	/	/	/	/	Ø
1700	/	/	/	/	Ø
1710	/	/	/	/	Ø
1720	/	/	/	/	Ø
1730	/	/	/	/	Ø
1740	/	/	/	/	Ø
1750	/	/	/	/	Ø
1760	/	/	/	/	Ø
1770	/	/	/	/	Ø
1780	/	/	/	/	Ø
1790	/	/	/	/	Ø
1800	/	/	/	/	Ø
1810	/	/	/	/	Ø
1820	/	/	/	/	Ø
1830	/	/	/	/	Ø
1840	/	/	/	/	Ø
1850	/	/	/	/	Ø
1860	/	/	/	/	Ø
1870	/	/	/	/	Ø
1880	/	/	/	/	Ø
1890	/	/	/	/	Ø
1900	/	/	/	/	Ø
1910	/	/	/	/	Ø
1920	/	/	/	/	Ø
1930	/	/	/	/	Ø
1940	/	/	/	/	Ø
1950	/	/	/	/	Ø
1960	/	/	/	/	Ø

MAGNETIC SUSCEPTIBILITY

HOLE: E70

INTERVAL START	+ 2'	+ 4'	+ 6'	+ 8'	INTERVAL AVERAGE CGS UNITS
1970					Ø
1980					Ø
1990					Ø
1900					Ø
1910					Ø
1920					Ø
1930					Ø
1940					Ø
1950					Ø
1960					Ø
1970					Ø
1980					Ø
1990					Ø
2000		Ø			Ø
2010					Ø
2020					Ø
2030					Ø
2040					Ø
2050					Ø
2060					Ø
2070					Ø
2080					Ø
2090					Ø
2100					Ø
2110					Ø
2120					Ø
2130					Ø
2140					Ø
2150		Ø			Ø
2160					Ø
2170					Ø
2180					Ø
2190					Ø
2200					Ø
2210					Ø
2220					Ø
2230					Ø
2240					Ø

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE #: E-68

DATE: NOV/20/86 LOGGED BY: *HZ*

DEPTH (FT)		INTERVAL		CORE		CUMUL. LENGTH OF (INCHES)			R. Q. D.			# of	FRAC.
From	To	INCHES	CUM. INCHES	REC. #/IN	REC%	≥ 2"	7.4"	28"	2'	4'	8'	FRACT?	INTEREST
24	35.5	138	138	92	69		44.5			32			
35.5	45.5	120	258	108	90		74.5			62			
45.5	52	78	336	62	79		38.5			49			
52	56	48	384	56	117		42			38			
56	64.5	102	486	98	96		47			46			
64.5	69	54	540	50	93		14			26			
69	73	48	588	44	92		5			10			
73	77	48	636	36	75		4.5			9			
77	82	60	696	52	87		0			0			
82	86	48	744	44	92		9			14			
86	88.5	30	774	30	100		4			13			
88.5	92	42	816	30	71		10			24			
92	96	48	864	46	96		23			48			
96	102	72	936	64	89		14			19			
102	107	60	996	58	97		25			42			
107	114.5	90	1086	82	91		36			40			
114.5	119	54	1140	47	87		10			19			
119	126	84	1224	64	76		29			35			
126	128	24	1248	15	63		0			0			
128	135	84	1332	80	95		39			46			
135	141	72	1404	72	100		0			0			
141	151	120	1524	110	97		55			46			
151	156	60	1584	60	100		20			33			
156	166	120	1704	108	90		51			43			
166	173.5	90	1794	80	89		40			44			
173.5	182	102	1896	102	100		41			90			
182	186	48	1944	48	100		10			21			
186	189	36	1980	30	83		0			0			
189	194	60	2040	55	92		20			33			
194	199	60	2100	57	95		13			22			
199	204	60	2160	53	88		21.5			36			
204	209	60	2220	60	100		0			0			
209	214	60	2280	48	80		0			0			
214	219	60	2340	60	100		42.5			71			

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE #: E-68

DATE: Nov 21/86

LOGGED BY: *HE*

FOOTAGES (FT)		INTERVAL		CORE	%	CUMUL. LENGTH OF PIECES (INCHES)			R. Q. D.			# of	FRAC.
FROM	TO	INCHES	CUM. INCHES	REC. # (IN)	REC. %	>2"	2-4"	28"	2'	4'	8'	FRACT?	INTENSITY
219	229	120	2460	110	92		68			57			
229	232	36	2496	32	89		19.5			54			
232	236.5	54	2550	49	91		9			17			
236.5	245	102	2652	102	100		41.5			41			
245	249	48	2700	48	100		6.5			14			
249	252.5	42	2742	30	71		0			0			
252.5	254	18	2760	15	83		0			0			
254	264	120	2880	82	68		39			33			
264	269	60	2940	45	75		9			15			
269	276	84	3024	64	76		52			62			
276	282	72	3096	70	111		52			72			
282	289	81	3180	84	100		13			15			
289	292	36	3216	22	61		6			17			
292	295	36	3252	32	89		0			0			
295	301	72	3324	62	86		21.5			30			
301	309	96	3420	96	100		47			49			
309	316	81	3504	72	86		60			71			
316	326	120	3624	116	97		29			24			
326	328	24	3648	15	63		0			0			
328	333.5	66	3714	64	91		16			24			
333.5	343.5	120	3834	117	98		80			67			
343.5	354	126	3960	114	90		66.5			53			
354	364	120	4080	116	97		61.5			51			
364	370	72	4152	70	97		28			39			
370	374	48	4200	46	96		10			21			
374	379	60	4260	60	110		0			0			
379	381	24	4284	24	100		0			0			
381	390	108	4392	94	87		9			9			
390	394.5	54	4446	60	111		18			33			
394.5	400	66	4512	64	97		15			23			
400	405	60	4572	36	60		13			22			
405	413	96	4668	96	100		33			34			
413	415.5	30	4698	33	110		5			17			

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE #: E-68

DATE: NOV 24

LOGGED BY: #5

ROFASSES (FT)		INTERVAL		CORE	%	CAPITAL LENGTH OF PIECES (INCHES)			R. Q. D.			# of	Frac
FROM	TO	INCHES	CUM. INCHES	REC. # (IN)	RECS	>2"	7/4"	7/8"	2'	4'	8'	FRACT?	INCHES
415.5	425.5	120	4818	115	96		23						69
425.5	433	90	4908	86	96		30						33
433	443	120	5028	120	100		38.5						32
443	449	72	5100	68	94		22						31
449	456	84	5184	84	100		18.5						22
456	459.5	42	5226	36	86		11.5						27
459.5	466	78	5304	69	88		42						54
466	469.5	42	5346	35	83		Ø						Ø
469.5	476.5	84	5430	84	100		Ø						Ø
476.5	485	102	5532	102	100		43						42
485	495.5	126	5658	122	97		49						39
495.5	499	42	5700	39	93		15						36
499	506	84	5784	90	107		53.5						64
506	515	108	5892	103	95		38						35
515	525	120	6012	114	95		40						33
525	534.5	114	6126	102	89		20						18
534.5	540	66	6192	62	94		11						17
540	549	108	6300	96	89		31						29
549	559	120	6420	120	100		63						53
559	568	108	6528	100	93		43						40
568	574	72	6600	70	97		Ø						Ø
574	578.5	54	6654	53	98		12.5						23
578.5	588.5	120	6774	118	98		40						33
588.5	596	90	6864	76.5	85		48						53
596	606	120	6984	116	97		17						8
606	611	60	7044	60	100		17						28
611	621	120	7164	117	98		34						28
621	624.5	42	7206	42	100		10						24
624.5	634	114	7320	84	74		14.5						17
634	637.5	42	7362	46	110		Ø						Ø
637.5	643	66	7428	70	106		10						15
643	645	24	7452	24	100		Ø						Ø
645	647.5	30	7482	30	100		Ø						Ø
647.5	650	30	7512	27	90		Ø						Ø

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE #: E-68

DATE: NOV 28 1966
" 27

LOGGED BY:

MB

FOOTAGES (FT)		INTERVAL		CORE REC. (IN)	%	CUMUL. LENGTH OF PIECES (INCHES)			R. Q. D.			# of FRACT.	FRAC. INTERVAL
FROM	TO	INCHES	CUM. INCHES			≥ 2"	≥ 4"	≥ 8"	2'	4'	8'		
915 1/2	919 1/2	48	10,746	52	108		24			50			
919 1/2	927 1/2	96	10,842	104	108		49			51			
927 1/2	936	102	10,944	97	95		55			54			
936	946	120	11,064	112	93		65			54			
946	956	120	11,184	112	93		74			62			
956	966	120	11,304	120	100		116			97			
966	975	108	11,412	108	100		86			80			
975	985	120	11,532	114	95		75			62.5			
985	994 1/2	114	11,646	104	91		78			68			
994 1/2	1003	102	11,748	102	100		56			55			
1003	1009	72	11,820	68	94		14			19			
1009	1013	48	11,868	48	100		18			37.5			
1013	1022	108	11,976	104	96		65			60			
1022	1032	120	12,096	111	93		74			62			
1032	1039	84	12,180	60	71		25			30			
1039	1049	120	12,300	113	94		37			31			
1049	1053	48	12,348	40	83		12			25			
1053	1063	120	12,468	112	93		53			44			
1063	1073	120	12,588	105	88		23			19			
1073	1083	120	12,708	115	96		44			37			
1083	1093	120	12,828	117	98		61.5			51			
1093	1098	60	12,888	55	92		37			62			
1098	1105.5	90	12,978	80	89		25			28			
1105.5	1115.5	120	13,098	117	98		76			63			
1115.5	1125	114	13,212	110	96		89			78			
1125	1135.5	126	13,338	120	95		81			64			
1135.5	1145	114	13,452	104	91		69			61			
1145	1150	60	13,512	53	88		16			27			
1150	1159	108	13,620	102	94		67			62			
1159	1169	120	13,740	105	88		53			44			
1169	1170.5	18	13,758	24+	133		16			89			
1170.5	1178	90	13,848	100	111		23.5			66			
1178	1188	120	13,968	114	95		79			66			
1188	1196	96	14,064	84	88		60			63			

ROCK QUALITY DESIGNATION (R.Q.D.)

172

HOLE #: E-68

DATE: NOV 28/86 LOGGED BY:

Dec 2/86

ROFACES (FT)		INTERVAL		CORE	%	CUMUL. LENGTH OF PIECES (INCHES)			R. Q. D.			# OF	FREQ.
FROM	TO	INCHES	CUM. INCHES	REC. #/IN	REC%	>2"	2-4"	3-8"	2"	4"	8"	FRACT.	INTER.
1196	1206	120	14,184	111	93		95			79			
1206	1212	72	14,256	68	94		27.5			38			
1212	1222	120	14,376	112	93		46			38			
1222	1232	120	14,496	108	90		75			63			
1232	1242	120	14,616	112	93		79.5			66			
1242	1252	120	14,736	108	90		71			59			
1252	1254	24	14,760	22	92		Ø			Ø			
1254	1264	120	14,880	118	98		91			76			
1264	1274	120	15,000	120	100		96			80			
1274	1284	120	15,120	120	100		91			76			
1284	1293	108	15,228	98	91		76			77.5			
1293	1303	120	15,348	122	102		73			61			
1303	1308 1/2	66	15,414	72	109		25			38			
1308 1/2	1318 1/2	120	15,534	128	107		74			62			
1318 1/2	1325	78	15,612	72	92		24			31			
1325	1334	108	15,720	110	102		54			50			
1334	1342	96	15,816	96	100		Ø			Ø			
1342	1349	84	15,900	84	100		6 1/2			8			
END HQ → 1349	1350	12	15,912	12	100		Ø			Ø			
START HQ	1350	1350 1/2	6	15,918	6	100	Ø			Ø			
1350 1/2	1351	6	15,924	6	100		6			100			
1351	1361	120	16,044	123	102.5		91			76			
1361	1371	120	16,164	118	98		60			50			
1371	1381	120	16,284	110	92		72			60			
1381	1391	120	16,404	120	100		52			43			
1391	1401	120	16,524	120	100		58			48			
1401	1411	120	16,644	126	105		102			85			
1411	1421	120	16,764	125	104		13			11			
1421	1427	Ø 72	16,836	72	100		Ø			Ø			
1427	1436	108	16,944	97	90		23			21			
1436	1446	120	17,064	123	102.5		53			44			
1446	1456	120	17,184	120	100		67			56			
1456	1461	60	17,244	60	100		44			73			
1461	1471	120	17,364	123	102.5		71			60			

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE #: E-68

DATE: Dec 2/86

LOGGED BY: MB.

FOOTAGES (FT)		INTERVAL		CORE	%	CYLIND. LENGTH OF PIECES (INCHES)			R. Q. D.			# of	FRAC.
FROM	TO	INCHES	CUM. INCHES	REC # (IN)	RECT	>2"	2-4"	2-8"	2'	4'	8'	FRACT.?	INTERVAL
1471	1481	120	17,484	117	97.5		61			51			
1481	1484	36	17,520	38	105.5		26			72			
1484	1488	48	17,568	35	114		33			69			
1488	1496	96	17,664	92	96		64			67			
1496	1506	120	17,784	114	95		84			70			
1506	1516	120	17,904	118	98		41			34			
1516	1526	120	18,024	120	100		27			22.5			
1526	1536	120	18,144	114	95		65			54			
1536	1546	120	18,264	116	97		45			37.5			
1546	1556	120	18,384	118	98		24			24			
1556	1566	120	18,504	117	97.5		21			17.5			
1566	1569 1/2	42	18,546	42	100		31			24			
1569 1/2	1576	78	18,624	66	85		53			68			
1576	1586	120	18,744	116	97		94			78			
1586	1596	120	18,864	122	102		103			86			
1596	1606	120	18,984	115	96		102			25			
1606	1612 1/2	78	19,062	76	97		63			81			
1612 1/2	1622 1/2	120	19,182	125	104		86			72			
1622 1/2	1632	114	19,296	120	105		103			90			
1632	1642	120	19,416	116	97		99						
1642	1642.5	6	19,422	2.5	92		Ø			Ø			
1642.5	1645	30	19,452	26	87		15			50			
1645	1654	108	19,560	60	33		5.5			5			
1654	1661	89	19,649	77	92		46.5			55			
1661	1671	120	19,769	113	99		66			55			
1671	1681	120	19,889	118	98		72			60			
1681	1691	120	20,009	120	100		68			57			
1691	1693	29	20,028	23	96		11			96			
1693	1703	120	20,148	113	99		76			63			
1703	1713	120	20,268	120	100		60			50			
1713	1723.5	126	20,394	126	100		49.5			35			
1723.5	1734	126	20,520	120	95		80			63			
1734	1749.5	126	20,646	120	95		52.5			42			
1749.5	1755	126	20,772	119	99		91			72			

Dec 2

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE # : E-68

DATE: Dec 5 / 80 L.C. GLOBE M.B.

Elevations (ft)		Interval inches	Interval feet	Core Recovery %	% R.Q.	Spall Pieces (count)	R. Q. D.			Fractures (count)	Fracture %
From	To						1'	2'	3'		
1755	1765 1/2	126	20, 818	118	94	7 1/2					
1765 1/2	1775 1/2	120	21, 018	116	97	8 1/2					
1775 1/2	1786	126	21, 144	118	94	6 1/2					
1786	1796	120	21, 264	120	100	9 5					
1796	1806	120	21, 584	116	97	7 1/2					
1806	1816	120	21, 504	115	96	7 0					
1816	1826	120	21, 624	120	100	5 1/2					
1826	1836	120	21, 744	120	100	6 1/2					
1836	1846	120	21, 864	116	97	18 1/2					
1846	1856	120	21, 984	120	100	3 1/2					
1856	1866	120	22, 104	120	100	3 1/2					
1866	1875	108	22, 212	97	90	7 1/2					
1875	1885	120	22, 332	120	100	26 1/2					
1885	1895	120	22, 452	120	100	7 1/2					
1895	1901	72	22, 524	72	100	0					
1901	1911	120	22, 644	116	97	6 1/2					
1911	1921	120	22, 764	112		3 7					
1921	1931	120	22, 884	122		6 4					
1931	1941	120	23, 004	120		3 6					
1941	1951	120	23, 124	120		3 4					
1951	1961 1/2	126	23, 250	117		4					
1961 1/2	1972	126	23, 376	124		0					
1972	1982	120	23, 596	120		3 1					
1982	1992	120	23, 616	128		1 5					
1992	2002	120	23, 736	120		1 4					
2002	2012	120	23, 856	124		4 0					

Rec 3

Rec 5

MAGNETIC SUSCEPTIBILITY

HOLE: E-68

INTERVAL START	+ 2'	+ 4'	+ 6'	+ 8'	INTERVAL AVERAGE (CGS UNITS)
0 - 10					
-20		1.0	3.0	2.4	2.1
-30	2.5	2.4	2.2	2.0	2.24
-40	2.6	3.1	2.4	2.1	2.64
-50	1.9	3.4	3.2	3.0	3
-60	2.5	2.4	2.4	2.0	1.9
-70	2.1	1.8	.56	1.1	1.5
-80	.42	.08	.46	1.4	.04
-90	1.0	∅	.06	.01	.33
-100	.05	.01	.03	.56	.13
-110	1.9	1.8	.04	.79	1.23
-120	2.1	1.8	1.4	1.6	1.84
-130	3.1	3.0	1.4	.81	2.3
-140	1.4	.02	.01	.02	.3
-150	.04	.03	.03	.04	.036
-160	.03	.04	.05	.04	.036
-170	.05	.12	.06	.05	.06
-180	.21	∅	.06	.03	.098
-190	.02	.03	.02	.01	.028
-200	.01	.01	.03	.04	.04
-210	.02	.01	.04	.03	.022
-220	.07	.04	.13	.69	.23
-230	1.5	.79	2.0	.69	1.3
-240	.55	.02	.03	.04	.34
-250	.01	∅	.03	.01	.01
-260	.01	.05	∅	∅	.018
-270	.01	∅	.02	.01	.008
-280	.01	.00	.00	.00	.00
-290	.00	.00	.04	.02	.01
-300	.61	.00	.01	.00	.20
-310	.03	.00	.00	.00	.01
-320	.00	.03	.03	.02	.02
-330	.65	2.9	2.7	1.4	1.7
-340	1.1	.11	.00	.00	.42
-350	.01	.01	.87	.22	.23
-360	.01	.00	.03	.00	.00
-370	.37	1.1	.32	.03	.49

MAGNETIC SUSCEPTIBILITY

HOLE: E-68

INTERVAL START	+ 2'	+ 4'	+ 6'	+ 8'	INTERVAL AVERAGE <small>(LOGS UNITS)</small>
380 -1.1	.00	.04	.64	1.1	.57
390 -2.28	.02	.02	.15	.09	.11
400 -2.01	.00	.05	1.0	1.9	.60
410 -3.0	2.2	2.1	1.1	10.4	1.69
420 -2.00	.01	.00	.01	.00	.00
430 -2.00	.00	.00	.00	.00	.00
440 -2.00	.00	.00	.00	.00	.00
450 -2.00	.00	.03	.00	.00	.00
460 -2.01	.00	.00	.00	.01	.00
470 -2.01	.00	.01	.03	.01	.00
480 -2.03	.00	.01	.00	.00	.00
490 -2.00	.00	.00	.00	.00	.00
500 -2.02	.01	.00	.00	.00	.00
510 -2.10	.00	.00	.00	.02	.02
520 -2.10	.00	.00	.00	.00	.00
530 -2.10	.00	.00	.00	.00	.00
540 -2.03	.01	.00	.00	.00	.00
550 -2.01	.01	.01	.00	.00	.006
560 -2.0	.0	.0	.06	.0	.012
570 -2.0	.0	.0	.01	.0	.002
580 -2.02	.0	.0	.0	.01	.006
590 -2.01	.0	.03	.0	.01	.01
600 -2.0	.0	.0	.03	.0	.006
610 -2.01	.0	.0	.0	.0	.002
620 -2.0	.0	.0	.04	.0	.008
630 -2.06	.0	.03	.01	.02	.022
640 -2.02	.0	.01	.0	.0	.006
650 -2.0	.0	.01	.01	.02	.008
660 -2.04	.0	.0	.0	.0	.008
670 -2.0	.0	.0	.0	.0	.0
680 -2.0	.0	.0	.01	.01	.004
690 -2.01	.02	.01	.02	.0	.012
700 -2.0	.0	.03	.02	.01	.012
710 -2.02	.02	.01	.02	.02	.018
720 -2.02	.01	.0	.01	.0	.008
730 -2.02	.02	.01	.0	.0	.01
740 -2.0	.0	.01	.01	.0	.004

MAGNETIC SUSCEPTIBILITY

HOLE: E-68

INTERVAL START	+2'	+4'	+6'	+8'	INTERVAL AVERAGE (CG'S UNITS)
750-.0	.0	.0	.0	.0	0
760-.01	.0	.0	.0	.01	.004
770-.03	.0	.0	.0	.0	.006
780-.0	.0	.0	.01	.0	.002
790-.0	.0	.0	.02	.04	.012
800-.02	.0	.0	.0	.0	.004
810-.0	.0	.0	.0	.0	.0
820-.0	.0	.0	.01	.0	.002
830-.0	.0	.0	.0	.0	.0
840-.0	.0	.0	.0	.0	.0
850-.0	.0	.0	.0	.0	.0
860-.0	.0	.0	.0	.0	.0
870-.0	.0	.01	.0	.0	.002
880-.0	.0	.0	.0	.0	.0
890-.03	.01	.04	.01	.03	.024
900-.02	.03	.0	.01	.01	.014
910-.02	.03	.01	.04	.02	.024
920-.01	.03	.04	.0	.0	.016
930-.0	.0	.0	.0	.0	.0
940-.0	.0	.0	.01	.01	.004
950-.0	.0	.0	.0	.0	.0
960-.0	.0	.0	.0	.04	.008
970-.0	1.8	.34	.01	.0	.93
980-.0	.0	.0	.0	.0	.0
990-.0	.0	.07	.0	.0	.014
1000-.0	.0	.0	.0	.0	.0
1010-.0	.0	.0	.0	.0	.0
1020-.0	.02	.01	.0	.0	.006
1030-.0	.04	.0	.0	.0	.008
1040-.0	.0	.0	.0	.0	.0
1050-.0	.0	.0	.0	.0	.0
1060-.0	.0	.0	.0	.0	.0
1070-.0	.0	.0	.0	.01	.002
1080-.0	.0	.04	.0	.0	.003
1090-.0	.0	.0	.0	.0	.0
1100-.02	.01	.01	.01	.03	.016
1110-.02	.0	.01	.02	.01	.012

MAGNETIC SUSCEPTIBILITY

HOLE: E-62

INTERVAL START	+ 2'	+ 4'	+ 6'	+ 8'	INTERVAL AVERAGE (CGS UNITS)
1120-.01	.01	.01	.01	.01	.01
1130-.01	.01	.03	.06	.02	.026
1140-.01	.01	.0	.0	.0	.009
1150-.0	.0	.0	.0	.0	.0
1160-.0	.0	.03	.03	.0	.012
1170-.0	.0	.0	.0	.0	.0
1180-.0	.0	.0	.0	.0	.0
1190-.0	.0	.0	.0	.0	.0
1200-.0	.0	.0	.0	.0	.0
1210-.0	.0	.0	.0	.0	.0
1220-.0	.0	.0	.0	.0	.0
1230-.02	.0	.0	.0	.0	.004
1240-.05	.0	.0	.0	.0	.01
1250-.0	.0	.0	.0	.0	.0
1260-106	101	100	100	100	
1270 100	100	100	100	100	100
1280 100	100	100	100	103	
1290 100	100	100	100	102	
1300 100	100	100	100	100	100
1310 100	100	100	100	100	100
1320 100	10	100	100	100	100
1330 100	10	100	100	100	100
1340 100	100	100	100	100	100
1350 100	101	100	100	110	
1360 100	101	.04	102	100	
1370 100	100	100	102	101	
1380 .06	109	100	100	100	
1390 100	100	100	100	100	100
1400 100	100	100	100	100	100
1410 112	100	100	100	100	
1420 100	100	100	100	100	100
1430 100	100	100	100	100	100
1440 100	100	100	104	100	
1450 100	100	103	105	100	
1460 100	100	100	100	100	
1470 100	100	100	104	104	
1480 109	101	100	100	100	

Island Copper Mine
ISLAND

DRILLHOLE/TRVERSE : E-069 (CONTINUED)

F - INTERVAL -		CORE RECOVERY (FT.)	% ROCK TYPE	TYPI- TM 1	DAL TM 2	TEX- MAT 1	GRAIN TX 2	FRAC- F C % M	STRUCTUR-1	ALTERATION MINS										SUMMARY											
(UNITS = FT)										ERY	X	1	2	1	2	1	2	3	4		5	6	7	8	9	10	11	12			
EA	YG	FROM	TO	FOR	EN	RT	TM	RM2	TX	SR	S	O	DIP	F	1	ID	STK	DIP	A	A	A	A	A	MIN	A	A	MIN				
Y	G			MEM	V	Q	LC-	3	3	4	D	N	H	/	SML	1	2	A2M	RT	H	H	H	H	H	H	H	H	H			
Y	G			DESIG	AGE	COL			R	D	P	C																			
N		320.0	360.0				X	PBSD		BD	F	8	1			0	2	BD	70	85		V2		ZE	7=			6	Y		
L								6A	<<	VV	7	7	7	C	2	3	BD	85	L1	62	64		V2		L)			S	I		
R	LTH	332.0	335.0	MED GRY-GRN HBL/FELD PORP WITH <5% MAFIC PHE																											
R	LTH	332.0	335.0	NO-EHEDRAL-CHL-ALT'D, TO 2-3MM AND 10-20% FELD EVHEDRA TO 3MM																											
R	LTH	332.0	335.0	IN GRV, APHAN MTX.																											
R	LTH	332.0	335.0	PROB A VARIETY FO UNIT 242-258. GREASY BRN ENV (HEM? BID?) ON																											
R	LTH	332.0	335.0	PYR VNS TO 5MM/SIDE AND AS SELV ON PYR-CALC VNLS.																											
N		332.0	335.0				X	PPHB	MX	FX		PP	VV			N			P1	/		V2		7=							
L								56														83	/								
R	SAM	333.0	333.2	FELD - PYROX PORP.																											
R	LTH	360.0	385.0	STRG REDDISH-OR GARNET(?) AND EPI ALT'D BDD'S, SKARNY SEDS.																											
R	LTH	360.0	385.0	ALT'N RANGED FROM ALT'N OF AN ISOLATED THIN (2-3MM) LAYER TO																											
R	LTH	360.0	385.0	PERV THRU ALT LAYERS (MAINLY 361-371')																											
N		360.0	385.0				X	PBSD		BD	F	8	1			0	2	BD	60	82		V1		ZE	7+		6A	6	Y		
L								RA	<<	VV	7	7	7	C	2	3	BD	60	L1	62	84		V2		B	P7	S	I			
N		385.0	398.0				X	PBSD		BD	F	8	1			0	2	BD	70	85		V2		ZE	71		6A	6	Y		
L								MA	<<	VV	7	7	7	C	2	2	VP	45	L1	62	63		V2		B	L1	S	I			
P		398.0	421.0					PPHB	MX	FX		PP				P			7?			71		71				3	?		
L								46	<<	VV												7?						1			
R	LTH	398.0	421.0	DARK GRN, MASSIVE, HBL-FELD, PORPHYRY. HBL EUHEDRA TO 5MM COMP																											
R	LTH	398.0	421.0	5-10% FELD X'AL'S TO 4MM COMP 10-20% IN APH MTX.																											
R	LTH	398.0	421.0	BROAD GREASY BRN (HEM? BID?) ENV'S ON PYR VNS TO PERV BRN																											
R	LTH	398.0	421.0	ALT'N.																											
R	LTH	398.0	421.0	MAIN VNS ARE: PYR MICRO VNS, WT QTZ & PYR, WT CARB +/- GILS TO																											
R	LTH	398.0	421.0	1CM. RK PROB A VARIETY OF ALL PERV INTR/VOLC LAYERS IN THIS																											
R	LTH	398.0	421.0	HOLE. RK SL MAGN ALT'D																											
R	LTH	398.0	421.0	A 4CM BIX VM CUTS RK AT 40 DEG C/A.																											
R	SAM	411.0	411.5	RED ALT'D PORP CUT BY BIX(?) DYKLET.																											
P		421.0	445.0					PBSD		BD						P	2	BD	75	P6		V2		ZE	71			6	I		
L								AW	<<	VV						2	2	BD	55				V3					V	1		
R	LTH	421.0	445.0	LT GRV-WT, LT GRN BANDED, BLEACHED SILIC'D SED SIMILAR TO ABV																											
R	LTH	421.0	445.0	HBL PORP. SL INCR IN VEINING (PRY, CALC/ZED).																											
R	LTH	421.0	445.0	MOD TAN-BRN STAIN. SOME BLK PYROBIT (GILS) IN CARB VNS. WT																											
R	LTH	421.0	445.0	CARB/ZED VNS GEN (4-5MM. A 4CM QTZ-MOLY CUTS CORE AT 425' @ 40																											
R	LTH	421.0	445.0	DEG C/A WITH SILIC'N OF WALL RK.																											
R	LTH	421.0	445.0	ORIG GRAIN (SIZE) TEXT OBLIT BY ALT'NS. CHL OCC AS ENV ON PYR																											
R	LTH	421.0	445.0	VNLS.																											
R	LTH	421.0	445.0	BDG IS: 75 DEG @ 422, 55 DEG @ 434																											
P		445.0	462.0					PPHB	MX	FX		PP	VV		1	6	K		P	2	VB		20		V3		ZE	7=		X	5
L								6U		SH						C		2					P3	P3		V1			E	5	

Island Copper Mine
ISLAND

DRILLHOLE/TRVERSE : E-069 (CONTINUED)

F - I N T E R V A L -		CORE	%	TYP1-	QAL	TEX-	GRAIN	FRAC-	STRUCTUR-1 ALTERATION MINS										ORE-TYPE	MINS										
K L (UNITS = FT)		RECDV-	#	ROCK	FYING	MIN	TURES	CHARACS	TURE	H	H	H	K	H	A	A	A	A	A	MIN	A	A	A	KIN						
E A		ERY	I	TM	TM	MAT	TX	TX	F	C	%	M	T	ID	STK	DIP	A	A	A	A	A	A	A	A	A					
Y G FROM - TO		(FT.1)	X	TYPE	1	2	QMI	1	2	F	F	C	P	#	TK	1	AZM	RT	BZ	BI	CY	CB	MG	XX	PY	CP	GL	YY	SUMMARY	
K F		ROCK	FOR	EN	RT	TM	QMI	TX	TX	S	R	S	O	DIP	F	T	ID	STK	DIP	KF	MU	CL	EP	HE	KA	PR	MO	SL	HA	
E L		QUAL	MEM	V	Q	LC-	3	J	4	O	N	H	/	SML	I	2	AZM	RT			H	H	H	H	K	H	H	H	H	
Y G		DESIG	AGE	COL				R	D	P	C					STRUCTUR-2				A	A	A	A	A	A	A	A	A		
R LTH	445.0	462.0	STRG BLEACHED ENV ON QTZ-MOLY VNS AND WIDE BRN ENV (>2-3CM) ON																											
R LTH	445.0	462.0	QTZ & CARB/ZEO/PYR VNS OBL TEXT.																											
R LTH	445.0	462.0	PATCHES OF REMN CHL-PYR ALT'D RK HAVE IRREG CIR SPOTS 2-3MM IN																											
R LTH	445.0	462.0	DIA AND POSS FELD PHENO - IE: POSS HBL-FELD PORP.																											
R LTH	445.0	462.0	RK HAS SPECKLED TEXT DUE TO BRN ALT'N OF PHENOS(?).																											
R LTH	445.0	462.0	SOME LATE CALC VNS(CUT) 2-3MM THK, CUT BRN ALT'N ENV. BRN =																											
R LTH	445.0	462.0	X-5 (HEM? B10?). LT BLEACHING PROB SERIC.																											
R LTH	445.0	462.0	SOME BKN/BRD CORE ASSOC WITH SHRS. AT 453, 456, WITH																											
R LTH	445.0	462.0	CALC/SERIC GOUGE.																											
R LTH	445.0	462.0	RK POSS X'AL TUFF.																											
P	462.0	505.0	PBSD	BD	VV				P	2	BD					70	P5													
L			GA	SH	BR						2	BD				65	E1												83	
R LTH	462.0	505.0	GRY TO REDDISH THIN BDD SEDS WITH DK-MOD GRY ALT'NS TO 469 WITH																											
R LTH	462.0	505.0	MINDR (1FT) MAFIC DYKE AT 466 FT, EPI ALT'D FROM APT 469 AND																											
R LTH	462.0	505.0	EPI AND GARNET SKARNY FROM APT 478 - (POSS ZONING)																											
R LTH	462.0	505.0	BDD IS 70 DEG @ 463, 65 DEG @ 473.																											
R LTH	462.0	505.0	A BRN VOLC WITH BRN ENV LK 445-462 OCC 475-476'																											
R LTH	462.0	505.0	A NARROW (<1FT) BIX OCC AT 478 WITH POLYMICR COMP FRAGS SUBRND																											
R LTH	462.0	505.0	2-3MM MX WITH SOME GARNETIZED FRAG.																											
R LTH	462.0	505.0	+/- FRAGS RK SHR'D AND BKN 476-479																											
R LTH	478.0	505.0	REDDISH-DR GARNET ALT'D MOD-STRG WITHIN LAYERS AS FINE LAM AND																											
R LTH	478.0	505.0	REPL WHOLE BEDS. BDD IS: 75 DEG @ 498, 60 DEG @ 486, 55 DEG @																											
R LTH	478.0	505.0	503.																											
R LTH	478.0	505.0	PYR BEN <4-5%. MINDR BANDED & DISS SP. QTZ BLEBS/VNS GEN <5%.																											
R LTH	478.0	505.0	CONT OBSCURED 504-507 BY SHR/BIX'N WITH GOUGE (ABD CALC +/-																											
R LTH	478.0	505.0	SERIC)																											
M	478.0	505.0	X	PBSD	BD	VV			D	2							P1		V2								7+		GA	
L			SK	SR	BR	BR					2	BD					P1	P1	B3									7+	L5	
P	505.0	515.0	PPFX	VV	<<	S	B	K	P	2	VB						V2		V3								ZE	7)		6 Y
L			GA	GG				C			SM						P3		V3								V3		V 2	
R LTH	505.0	515.0	PALE GRN-GRY; CLEAR-GRY FELD PHENOS 1-4MM.																											
R LTH	505.0	515.0	COMP 10-15% WITH MTX COMP MAINLY OF FELD <1MM POSS X'AL TUFF.																											
R LTH	505.0	515.0	NO REM MAFICS. RK POSS PYROX ALT'D TO GIVE PALE GRN COL. MT																											
R LTH	505.0	515.0	ZEO & CALC VNS 1-3MM MOD DENSITY, BLK-GRY BYP & CARB OCC IN VNS																											
R LTH	505.0	515.0	AND BIX VNS, AND LOC CUTTING CARB AND B7Z VNS.																											
R LTH	505.0	515.0	PYR <1-2%. NOTE: BRILLIANT ORANGE ZEO VNLTs AT 514 FT.																											
R LTH	505.0	515.0	REDDISH SKARN, BIX AND SP OCC AT CONT 518-520 FOLLOWING STR																											
R LTH	505.0	515.0	FLT/SHR SOCM (1-1/2') THK AT 515 FT. SHR AT 25 DEG @ C/A.																											
P	515.0	516.5	FAUL						P	6	F/																			20
R STR	515.0	516.5	FAULT WITH SOCM LIMEY GOUGE/BIX AT 25 DEG C/A.																											
P	516.5	525.0	SKAR	BR	BN				P										V3	P5	ZE						6+		GA	

Island Copper Mine
ISLAND

DRILLHOLE/TRVERSE : E-069 (CONTINUED)

INTERVAL		CORE	%	TYP1-	QAL	TEX-	GRAIN	FRAC-	STRUCTUR-	ALTERATION	MINS	GRE-TYPE	MING
CONTENTS = FT)		RECOV-	M	ROCK	FLYING	MIN	TURES	CHARACTS	TURE	H	H	H	H
E A		ERY	?	TM	TM	MAT	TX	TX	F	C	%	M	
Y S FROM - TO		(FT. 1)	X	TYPE	1	2	QMS	1	2	F	F	C	P
F F		ROCK	FOR	EN	RT	TY	QMS	TX	TX	S	R	S	O
E L		QUAL	MEM	V	9	LC-	3	3	4	O	N	H	/
Y G		DESIG	AGE	COL				R	D	P	C		
R LTH	765.0	794.0	SK AT BTM IS PITTED/CORRODED.										
R LTH	765.0	794.0	MOD EPI VNS & PATCHES.										
R LTH	765.0	794.0	RK BKN 775-776 AND 782-784 - POSS SMRS (6 INCHES SANDY SOUGE AT 776').										
R LTH	765.0	794.0	GARNET & EPI ALTN'S EXTENDED INTO VOLC AT BTM CDNT. MINDR										
R LTH	765.0	794.0	CPY. SOME COARSE MOLY SMS IN QTZ VNS.										
N	765.0	794.0	X	SKAR	CAZ	MX	J	9	N	D	2	VM	V3
L			QL	UR			C	1	2	VP		82	71 D+ 6A X X C- P9 3 1
P	794.0	895.0		KNBA		MX	VV		P			ES	71 7+ D+ 3 5 P5 P2 2 +
R LTH	794.0	895.0	A MAFIC PORP WITH 10-15% CORRODED CHL-EPI ALT'D PYRIBOLES										
R LTH	794.0	895.0	(PYROX?).										
R LTH	794.0	895.0	GEN 1-2MM BUT TO 5MM DIA IN MED-FN GRAINED X'AL MTX. COMP LOOKS										
R LTH	794.0	895.0	LK PORPC BASALT. RK HAD MOD-HIGH VNS/MICRO VNS (>20-30/FT)										
R LTH	794.0	895.0	WITH WT ZEO & CALC VNS CUTTING PYR, EPI.										
R LTH	794.0	895.0	PATCHY BRN BIO(?) ON ENV'S-LOC-STRG.										
R LTH	794.0	895.0	PERV STRG CHL AND LOC SOME EPI ALT'N. PYR DISS & VNS 2-5%.										
R LTH	794.0	895.0	BISS CPY TO 0.25% CU. RK MASSIVE. LOC PHENOS TO 8MM. LOC SDP										
R LTH	794.0	895.0	WK MAG ALT'N.										

SUMMARY REMARKS

20 - 48

PBTf - MOD CHL, EPI AND WK SERIC ALT'D ASH & X'AL TUFF

48 - 54

PPHB - CHL ALT'D HORNBLENDE PORPHYRY. RED HEM (?) ENVS ON PYR VNLTs.

54 - 90

SKAR - RED-BRN ANDRADITE, PYROX(?) SKARN. THIN BDD WITH SILIC AND GARN BANDS. EPI ALT'N AFTER GARNET. WEAKLY LIMBY.

242 - 258

PP/B - MASSIVE INTER - BASIC VOLC WITH CHL ALT PHENOS COMP 5 - 1 IN FG MTX. RED HEM ENVS ON PYR VNLTs.

258 - 398

PBSO - BLEACHED, GRAY, QTZ, SERIC, EPI, CHL, PYR, SP ALT'D THIN BDD FG SEDS. BDD RANGES 50 - 85 DEG C/A. MAIN VNS PYR, CALC, ZEO, EPI. SOME BIX VNS. POSS SOME GARN ALTN.

398 - 421

PPHB - DK FRESH, HBL PORP WITH 5-10% HBL AND 10-20% FELD

Island Copper Mine
ISLAND

DRILLHOLE/TRVERSE : E-069 (CONTINUED)

SUMMARY REMARKS

PHENOS. SER. GREASY BRN ALTN. VEINED AND MICROVNI'D WITH PYR,
QTZ, CALC, ZEO, SILS.

421 - 445

PBSD - BLEACHED, SILIC'D SEDS WITH INCR PYR, CALC, ZEO VEINING
FROM ABOVE PBSD UNIT. SCATT QTZ-MOLY VNS. CHL OCC AS ENV ON
PYR VNLTs.

445 - 462

PPHB - STRG BLEACHED HBL (FELD ?) PORPH WITH SERIC ENV ON
QTZ-MOLY VNS AND WIDE BRN ENV ON QTZ AND CALC/ZEO VNLTs.

462 - 505

PBSD - SKARNY, REDDISH, THIN BDD SED WITH EPI AND GARNET ALT'S
FROM 469 FT. MAFIC DYKE (1 FT THK) AT 466 FT.

505 - 516.5

PPFX - FELD PORP WITH 10-15% GRY FELD PHENOS TO 4MM (X'AL
TUFF?). FLT WITH 1.5 FT. SOUGE AT 515 FT. SOME SP AND GARNET

516.5 - 525

SKAR - RED-BRN, BANDED, GARNET SKARN WITH STRG MAGN AND VIS CPY
FROM 520 FT.

525 - 585

PBTF - CHL, SERIC, EPI, ZEO ALTD ASH/LAP ANDES TUFF. MINOR GARN
(?). MOD-HIGH VN DENSITY WITH CALC, PYR, EPI AND ZEO(BRT DRG)

585 - 649

SKAR - MASSIVE, YL-SRN, YL-RED AND RED-BRN ANDRADITE GARNET,
MAGNETITE SKARN WITH DISSEM AND VNS OF CPY. BLK DISSEM MINERAL
NOT SPHAL AS LOGGED (LOW ZINC ASSAYS); POSS CHALCOCTITE. MAG COMP
ABT 40% OF BK AT 612-649 WITH MASSIVE PYR(+20%)

649 - 718

MARB - GRY, WT, WKLY BANDED, MASSIVE, MG-C6 CALCITIC MARBLE.
INCL FIVE THIN (6" TO 4") BANDS OF YELLOWISH GARNET SKARN.
PYR-CHL VNLTs MOD ABD.

718 - 794

SKAR - YL-BRN AND RED-BRN GARNET SKARN, NON-MAGN, WITH RED-BRN
SK 718-722, YL-BRN AND RED SK 722-745 AND STRG RED-BRN SK
745-795 WITH 2 FT THK TUFF LAYER AT 763 FT. SK MOD LIMBY (+10%
REMN CARB IN MIX). CPY DISS AND VNS TO 1CM. PYR RUNS 1-5%, LOC

DIAMOND DRILL HOLE ASSAYS

1

11:17 MONDAY, FEBRUARY 23, 1987

----- HOLE=E-069 -----

FROM	TO	CU PCT	MO PCT	FE PCT	AU PPM	AG PPM	FB PCT	ZN PCT	TAG
40.0	50.0	0.15	0.008	7.9	.	.	.	.	4399
80.0	90.0	0.19	0.007	6.8	-0.010	1.440	0.005	0.047	4121
120.0	130.0	0.11	0.009	6.9	.	.	.	.	4400
160.0	170.0	0.13	0.006	6.9	-0.010	1.060	0.005	0.050	4122
200.0	210.0	0.11	0.010	4.9	.	.	.	.	4254
240.0	250.0	0.10	0.009	5.5	-0.010	0.340	0.003	0.013	4123
280.0	290.0	0.14	0.009	5.6	.	.	.	.	4255
320.0	330.0	0.13	0.009	5.7	0.010	1.100	0.004	0.028	4124
360.0	370.0	0.09	0.011	6.0	.	.	.	.	4256
400.0	410.0	0.15	0.021	7.6	-0.010	0.690	0.004	0.007	4125
440.0	450.0	0.12	0.010	6.1	.	.	.	.	4257
480.0	490.0	0.09	0.008	7.1	-0.010	0.700	0.004	0.024	4126
490.0	500.0	0.09	0.007	5.9	.	.	0.002	0.011	4660
500.0	510.0	0.08	0.008	6.1	.	.	0.002	0.022	4661
510.0	520.0	0.33	0.014	5.1	.	.	0.002	0.021	4662
520.0	530.0	0.61	0.017	6.8	.	.	.	.	4258
530.0	540.0	0.57	0.048	5.8	.	.	0.002	0.021	4663
540.0	550.0	0.44	0.042	10.2	.	.	0.003	0.014	4664
550.0	560.0	0.64	0.030	4.4	.	.	0.002	0.015	4665
560.0	570.0	0.31	0.014	6.9	0.010	2.310	0.004	0.022	4127
570.0	580.0	0.14	0.026	5.4	-0.010	0.970	0.003	0.000	.
580.0	590.0	1.49	0.026	10.8	0.020	7.750	0.001	0.026	4071
590.0	600.0	2.45	0.011	11.6	0.010	19.500	0.001	0.030	4072
600.0	610.0	0.90	0.007	12.9	0.010	8.250	0.001	0.017	4073
610.0	620.0	0.60	0.006	21.1	0.020	6.250	0.001	0.080	4074
620.0	630.0	0.52	0.008	18.7	0.010	6.250	0.001	0.087	4075
630.0	640.0	0.41	0.007	25.1	0.080	4.500	0.001	0.086	4076
640.0	650.0	0.31	0.006	18.3	0.040	4.000	0.001	0.095	4077
650.0	660.0	0.07	0.008	1.0	-0.010	0.620	0.007	0.062	4507
660.0	670.0	0.06	0.008	1.0	0.010	0.620	0.007	0.046	4507
670.0	680.0	0.07	0.009	1.0	0.010	0.870	0.007	0.076	4508
680.0	690.0	0.07	0.008	1.5	-0.010	0.970	0.006	0.112	4509
690.0	700.0	0.27	0.011	3.4	0.010	6.000	0.001	0.090	4078
700.0	710.0	0.11	0.009	1.3	-0.010	2.420	0.006	0.430	4510
710.0	718.0	0.15	0.008	1.8	0.010	3.560	0.006	0.234	4511
718.0	730.0	0.64	0.010	9.8	0.020	15.000	0.001	0.072	4079
730.0	740.0	0.51	0.014	8.6	0.020	8.500	0.002	0.060	4080
740.0	750.0	0.41	0.009	11.2	0.020	4.900	0.003	0.050	4081
750.0	760.0	2.93	0.009	8.8	0.010	13.750	0.006	0.037	4087
760.0	770.0	0.71	0.014	11.0	0.010	4.700	0.003	0.046	4082
770.0	780.0	0.39	0.024	8.6	0.010	3.100	0.003	0.036	4083
780.0	790.0	0.40	0.045	7.5	0.010	2.200	0.003	0.030	4084
790.0	800.0	0.24	0.047	9.4	0.010	2.500	0.233	0.079	4085
800.0	810.0	0.27	0.021	6.1	0.010	1.800	0.032	0.034	4086
880.0	890.0	0.21	0.011	5.2	0.010	1.120	0.003	0.010	4128

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE #: E 69

DATE: Dec 8/86 LOGGED BY: HE

FOOTAGES (FT)		INTERVAL		CORE REC. #	% Rock	TOTAL PIECES	LENGTH OF (INCHES)	R. Q. D.		F. of BITS	F.M.C. 107.500
FROM	TO	INCHES	FEET					4'	1'		
Casing 20	22	24	24	4	17	0	0	0			
22	26	48	72	41	85	4	8				
26	31	60	132	36	60	0	0				
31	34	36	168	28	78	4	11				
34	37	36	204	36	100	9	25				
37	46	108	312	97	90	29.5	27				
46	51	60	372	41	68	11	18				
51	56	60	432	65	108	26	43				
56	66	120	552	120	100	52.5	44				
66	76	120	672	114	95	9	8				
76	80	48	720	36	75	4	83				
80	86	72	792	75	104	25.5	35				
86	96	120	912	118	98	72.5	60				
96	106	120	1032	118	98	58	48				
106	115	108	1140	104	87	44	41				
115	124.5	114	1,254	120	105	19	17				
124.5	134.5	120	1,374	118	98	49.5	41				
134.5	144.5	120	1,494	120	100	54	45				
144.5	154.5	120	1,614	120	100	24.5	20				
154.5	155	6	1,620	6	100	0	0				
155	165	120	1,740	120	100	48	40				
165	175	120	1,860	120	100	43	36				
175	178	36	1,896	36	100	4	11				
178	186	96	1,992	79	82	34	35				
186	196	120	2,112	122	102	66.5	55				
196	206	120	2,232	117.5	98	82.5	69				
206	216	120	2,352	120	100	67.5	56				
216	226	120	2,472	114	95	78.5	65				
226	236	120	2,592	115	96	100	83				
236	246	120	2,712	117	97.5	105.5	88				
246	256	120	2,832	116	97	41	34				
256	266	120	2,952	114	95	63	53				
266	276	120	3,072	117	97.5	53	44				
276	286	120	3,192	120	100	68.5	57				
286	296	120	3,312	112	93	27	23				

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE # : E-69

DATE: Dec 8/86 LOGGED BY: MB

FOOTAGES (FT)		INTERVAL		CORE REC. (IN)	% REC.	CUMUL. LENGTH OF PIECES (INCHES)	R. Q. D.		# OF FAILURES	TYPE
FROM	TO	INCHES	CUM. INCHES				4"	1"		
296	306	120	3,432	120	100	54.5		45		
306	316	120	3,552	116	97	63		53		
316	321	60	3,612	60	100	20		33		
321	331	120	3,732	122	102	44.5		37		
331	341.5	126	3,858	116	97	35		28		
341.5	351	114	3,972	120	100	50		44		
351	361	120	4,092	120	100	70		58		
361	371	120	4,212	116	97	65		54		
371	381	120	4,332	112	93	73		61		
381	391	120	4,452	118	98	54		45		
391	396	60	4,512	58	97	38		63		
396	406	120	4,632	117	97.5	100		83		
406	416	120	4,752	120	100	103		86		
416	426	120	4,872	126	105	72		60		
426	436	120	4,992	120	100	96		80		
436	446	120	5,112	114	95	107		89		
446	451	60	5,172	68	113	35		58		
451	462	132	5,304	125	95	97		73		
462	468	72	5,376	58	80	21		29		
468	473	60	5,436	58	97	13		22		
473	478	60	5,496	44	73	0		0		
478	481	36	5,532	28	78	6		17		
481	485	48	5,580	45	94	11		23		
485	486	12	5,592	7	58	0		0		
486	493	84	5,676	44	52	8		9.5		
493	500	84	5,760	81	96	10 1/2		12.5		
500	504	48	5,808	52	108	4		8		
504	514	120	5,928	123	102.5	68		57		
514	518	48	5,976	44	92	15		31		
518	526	96	6,072	92	96	47		49		
526	536	120	6,192	120	100	22		18		
536	546	120	6,312	120	100	51		42.5		
546	556	120	6,432	120	100	79		66		
556	566	120	6,552	118	98	71		59		

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE # : E-69

Dates: Dec 10/86 LOGGED BY: HE

FOOTAGES (FT)		INTERVAL		CORE REG. (IN)	% REC'D	SMALL PIECES	LENGTH OF (INCHES)	R. Q. D.			# of CORES	EXC. INT.
FROM	TO	INCHES	CUM. INCHES					4"	4"	4"		
566	576	120	6672	120	100		40.5			34		
576	586	120	6792	120	100		32			27		
586	596	120	6912	110	92		54			45		
596	606	120	7032	114	95		70			58		
606	612	72	7104	72	100		13.5			19		
612	616	48	7152	42	87.5		26			54		
616	626	120	7272	110	92		60			50		
626	635	108	7380	102	94		32			30		
635	641	72	7452	70	97		1.0			14		
641	651	120	7572	120	100		77			64		
651	661	120	7692	120	100		59			49		
661	672	132	7824	120	91		46.5			35		
672	682	120	7944	118	98		89			74		
682	692	120	8064	118	98		98			82		
692	702	120	8184	119	99		95.5			80		
702	712	120	8304	118	98		91			76		
712	722	120	8424	120	100		81			67.5		
722	732	120	8544	120	100		102.5			85		
732	742	120	8664	120	100		61.5			51		
742	750.5	102	8766	86	84		24			23.5		
750.5	760.5	120	8886	120	100		58.5			49		
760.5	766	66	8952	70	106		44.5			67		
766	777	12	8964	12	100		5			42		
777	776	108	9072	30	28		0			0		
776	782.5	78	9150	81	104		21			27		
782.5	784	18	9168	10	56		0			0		
784	790	72	9240	70	97		21			30		
790	796.5	78	9318	78	100		38			49		
796.5	806	114	9432	105	92		48			42		
806	813	84	9516	81	96		37			44		
813	816	36	9552	22	61		0			0		
816	826	120	9672	120	100		43			36		
826	836	120	9792	116	97		38			32		
836	838 1/2	30	9822	40	133		5			17		
838 1/2	845 1/2	84	9906	75	89		24			29		

MAGNETIC SUSCEPTIBILITY

HOLE: E-69

INTERVAL START	+ 2'	+ 4'	+ 6'	+ 8'	INTERVAL AVERAGE (LOG UNITS)
0 - 10	—	—	—	—	
-20 .0541	.10	.00	.00	.00	.02
-30 .07	.00	.00	.00		.018
-40 .00	.00	.00	.00		0
-50 .00	.00	.03	.02	.01	.022
-60 .00	.00	.00	.00	.00	0
70 .03	.00	.00	.04	.00	.006
80 .00	.00	.00	.01	.00	0
90 .00	.00	.05	.00	.00	.014
100 .00	.00	.03	.03		.012
110 .01	.01	.03	.01	.00	.018
120 .00	.02	.02	.00		.008
130 .00	.00	.06	.20	.00	.052
140 .01	.00	.00	.00	.00	.018
150 .00	.00	.00	.06	.01	.014
160 .08	.01	.0	.01	.01	.022
170 .0	.01	.0	.03	.0	.008
180 .0	.0	.03	.03	.05	.022
190 .03	.0	.0	.0	.0	.006
200 .0	.0	.0	.0	.0	.0
210 .0	.0	.0	.01	.0	.002
220 .11	.0	.0	.0	.0	.022
230 .0	.0	.0	.0	.02	.004
240 .0	.0	.0	.0	.0	.0
250 .11	.04	.01	.0	.02	.036
260 .05	.0	.0	.0	.0	.006
270 .0	.0	.0	.0	.0	0
280 .0	.0	.0	.0	.0	0
290 .0	.0	.03	.0	.0	.006
300 .0	.0	.0	.0	.0	0
310 .0	.0	.0	.0	.0	0
320 .0	.0	.0	.0	.0	0
330 .0	.0	.19	.09	.0	.056
340 .0	.0	.0	.0	.04	.008
350 .05	.0	.0	.0	.0	.006
360 .0	.0	.0	.0	.0	0
370 .0	.0	.0	.0	.0	.0

MAGNETIC SUSCEPTIBILITY

HOLE: E-69

INTERVAL START	+2'	+4'	+6'	+8'	INTERVAL AVERAGE (CGS UNITS)
380-0	.0	.01	.0	.0	.002
390-0	.0	.0	.0	.0	Ø
400-0	.02	.10	.23	.05	.080
410-37	.08	.39	.41	.0	.25
420-18	.12	.01	.0	.0	.062
430-0	.03	.02	.02	.0	.084
440-0	.0	.0	.0	.0	Ø
450-0	.0	.01	.01	.0	.004
460-0	.06	.0	.0	.0	.012
470-0	.0	.0	.0	.0	Ø
480-02	.01	.01	.0	.0	.008
490-0	.01	.03	.03	.02	.018
500-03	.02	.02	.0	.0	.014
510-0	.02	.06	.06	5.0	.038
520-2.5	4.8	.70	.13	.0	1.626
530-06	.07	.19	.29	.79	.27
540-05	32-0	.01	.18	.22	12.8
550-04	.02	.01	.0	.0	.014
560-01	.0	.01	.0	.01	.006
570-07	.01	.00	.00	.00	.016
580-01	.00	.01	.11	.00	.026
590-21	.00	20. (60 at 594%)	.21	1.5	4.38
600-16.	.21	.27	7.1	6.4	5.996
610-2.9	26.0	56.	HH.HH(over 99)	32.	43.38
620-6.0	14.0	23.	55.	HH.HH(over 99)	39.6
630-51.	32.	17.	16.	23.	27.8
640-12	13.	54.	13.	.87	18.57
650-03	.00	.06	.00	.00	.018
660-100	.00	.03	.00	.00	.006
670-100	.00	.00	.00	.00	Ø
680-27	.05	.00	.04	.00	.072
690-100	.00	.03	.02	.00	.010
700-100	.00	.00	.00	.00	Ø
710-100	.00	.00	.00	.04	.008
720-12	.02	.05	.01	.00	.04
730-100	.04	.03	.05	.04	.032
740-100	.06	.04	.00	.07	.034

MAGNETIC SUSCEPTIBILITY

HOLE: E-69

INTERVAL START	+ 2'	+ 4'	+ 6'	+ 8'	INTERVAL AVERAGE (LOG UNITS)
750 .12	.16	.12	.13	.08	.122
760 4.8	.02	.26	.00	.03	1.022
770 .03	-	-	.13	.00	.032
780 .00	.00	.00	.02	.02	.008
790 .08	.18	.10	.04	.03	.266
800 .02	.02	.02	.23	.02	.058
810 .07	.01	.03	.0	.01	.029
820 .01	.06	.07	.08	.03	.05
830 .07	.10	.04	.07	.11	.139
840 .01	.04	.10	.18	.03	.072
850 .12	-.02	.02	.01	.03	.09
860 .27	.87	.96	.29	.75	.618
870 .35	.61	.36	.05	.06	.286
880 .35	.08	.06	.09	.10	.136
890 1.0	.02	.04 ^{EQ} ₈₉₅			.3
900					
910					
920					
930					
940					
950					
960					
970					
980					
990					
1000					
1010					
1020					
1030					
1040					
1050					
1060					
1070					
1080					
1090					
1100					

Island Copper Mine
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DRILLHOLE/TRVERSE : E-068 (CONTINUED)

F - I N T E R V A L -		CORE RECOV- ERY (FT.1)	S 1	TYP1- ROCK X TYPE	QAL FYING 2	TEX- MIN GMI	ESPIN TRES 1	FRAC- CHARACS F C % M	STRUCTUR-1 ID STK DIP	ALTERATION MINS								SUMMARY	
(UNITS = FT)										H H H R H ANY H H H ANY A A A A A MIN A A A MIN CY CB MC XX PY CP BL YY									
E A	Y B	F R D M	T D																
R O C K		F O R E N R T		T M Q M 2		T X T X S R S O		D I P F		K F M U		C L E P		H E H A		P R M G		S L H A	
E L		Q U A L		M E M V D L C - 3		3 4 D N H / S M L I		2		A Z M R T		H H H H		H H H H		H H H H			
Y B		D E S I G A B E		C O L		R D P C		S T R U C T U R - 2		A A A A		A A A A		A A A A					
L				AS				B				Q4		C3				2 2 1 1	
R STR	172.0		189.0	HLY FRAC'D. MINOR EPI VLT & DISS															
P	189.0		245.5	BVAF VF RF		A+ FR O K 4 K		P 1 VB	25			72 Q1		61 11				2 E 1 2	
L				AS 46			0	3 1 V/	20			92 65		C2				C 1 1 1	
M	202.0		214.0	9 BVAT VF RF		A+ FR O K 4 K		D 1 VB	25			72 Q1		61 11				2 E 1 2	
L				AS 46			0	8 1 V/	20			92 65		C2				C 1 1 1	
M	224.0		229.0	X BVAT VF RF		A+ FR O K 4 K		D 1 VB	25			72 Q1		61 7+				2 E 1 2	
L				AS 46			0	3 1 V/	20			92 65		25				C 1 1 +	
P	245.5		269.5	BVAN VF RF		FR CT O 2 2		3 P 2 VB	30			12 25		61 7+				2 E 1 3	
L				FZ		SH	0	7 3 F/				95 64		C4				C 1 1 +	
R LTR	245.5		269.5	ANDES. PROB TUFF. HLY SHRD, MOD CHL ALT'D 5-10% CALC BOTH															
R LTH	245.5		269.5	INTERSTITIAL & WH VLT TO 2MM OCC CALC ZED PATCH TO SCM X SCM															
R LTR	245.5		269.5	WK.MOD GILS AS BK HACKLY FRAC VNS TO 3MM & VLT/SSTNS A/W CALC															
R LTH	245.5		269.5	1-2% DISS PY. MINOR CLAY/MUD IN FLT.															
R LTR	269.0		282.0	PROB HEALED OR INCIPIENT FLT ZONE. WK CHL ALT MED/DK GN ANDES															
R LTH	269.0		282.0	TUFF(?) LACED W HAIRLINE CALC VLTs & OCC VNS TO 3-5MM. WK-MOD															
R LTR	269.0		282.0	GILS A/W THICKER WH-BY CALC VNS.															
P	269.5		282.0	BVAT VF RF		<< SH O K 4 K		88 P 0 SW				25 Q1		61 D1				1 3	
L							0	3 0 VB				93 Q2		C3				1 1	
P	282.0		289.0	FAUL RF 66		SH CT		P 6 F/	30			84 85		66				61	0 0
L				BV FZ 5A		66						93 Q3		97				73	0 0
R STR	282.0		289.0	GOUSY, MUDDY FLT ZONE. C/W SOME CY/SER. HCL+ C/W VIS CALC.															
R STR	282.0		289.0	GILS STN. NO VIS SULPH.															
P	289.0		302.5	BVAF VF RF		A+ FR O K 3 K		1 P 0 VB	75										
L				56			0	8											
R LTH	289.0		302.5	PATCHY LT-MED GN FG ANDES WITH 10-20% WH-V LT Y/GN CALC &															
R LTH	289.0		302.5	CALC/EPI FILLD AMYG TO 3MM. MOD SHRD & CALC VN'D TO 292,															
R LTH	289.0		302.5	RUBBLE 292-296															
P	302.5		305.0	BVAB CA RF		BR		P				K7		61				1 2	
L				M6								84		C1				0 0	
R LTH	302.5		305.0	BRECCIATED ANDES TUFF (?) 70% FG MED GN ANDES FRAGS TO SCM IN															
R LTH	302.5		305.0	30% WH CALC. MATR. FRAGS SLLY RDD. TR GILS GN FRACS. NO VIS															
R LTH	302.5		305.0	SULPHIDES															
P	305.0		332.0	BVAT VF RF		FR VV O K 3 L		P 1 VB	25			25		61 8)				1 1	
L				AS 66			3					Q1 Q?		C4				1 1	
R LTH	305.0		330.0	F6, EVEN TEXTURED LT.MED GN ANDES ASH TUFF. VERY CLEAN LOOKING															
R LTH	305.0		330.0	MINOR CALC VNS TO 3MM, OCC TO 1CM. GILS AS FF & OCC PATCH TO															

Island Copper Mine
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DRILLHOLE/TRVERSE : E-068 (CONTINUED)

F - INTERVAL -			CORE	1	TYP1-	GAL	TEX-	GRAIN	FRAC-	STRUCTUR-1 ALTERATION MINS										ORE-TYPE	MINS															
K L UNITS = FT			REDOX-	M	ROCK	FRYING	MIN	TURES	CHARACS	TURE	H H H R H ANY P R H ANY																									
E A			ERY	1	TM	TM	KAT	TX	TX	F	C	%	M	T	ID	STK	DIP	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A			
Y G FROM - TO			(FT.)	X	TYPE	1	2	OK	1	2	F	F	C	P	%	TK	1	AZM	RT	QZ	BI	CL	EP	ME	HA	PR	NO	SL	HA	SUMMARY						
K F			ROCK	FOR	EN	RT	TM	QZ	TX	TX	S	R	S	O	DIP	F	T	ID	STK	DIP	KE	MU	CL	EP	ME	HA	PR	NO	SL	HA						
E L			DUAL	MEM	V	Q	LC-	3	3	4	D	N	H	/	SML	I	2	AZM	RT		H	H	H	H	R	H	H	H	H	H						
Y G			DESIG	ABE	COL						R	D	P	C			STRUCTUR-2			A	A	A	A	A	A	A	A	A	A							
R LTH	505.0	522.0	MED/FINE GR CLASTIC SEDS -SILTSTONE. WKLY LIMY. OCC CALC VN																																	
R LTH	505.0	522.0	0-1MM. TR GILS, MINOR GRAPHITE ON FRACS, LOCALLY V PATCHY SER																																	
R LTH	505.0	522.0	ALTN.																																	
R LTH	505.0	522.0	SHORT RUNS BK MOD LIMY SEDS CUT BY NMRS CALC VNS TO 1CM, OCC																																	
R LTH	505.0	522.0	ZEG VLT. 2CM BAND EPI @ 506 (PREDATES CALC-ZED)																																	
N	505.0	522.0	2	PBSD	CA=	2	2	2	2	17	D	2	VB									23	61									6 R				
L					3N								0	VB								Q3	V3	51							C 2					
P	522.0	543.0		PBSD	CA=	BD	VV	3	4	4	4	4	E	1	VB							24	61	L+							6 R					
L					AN								1	BD	65	Q3								Q1							C 2 1 +					
R LTH	522.0	543.0	DK GY/BK SILTST. MOD/STR FRAC 522-529.5 & B6 IS OBSCURED. NO																																	
R LTH	522.0	543.0	ALT'D EXC CALC VNS TO 3MM. STR B6 530-542 @65 DEG. PY VN @																																	
R LTH	522.0	543.0	540. OCC FRAG MED GY SPOTTED WKLY LIMY TUFF CUT BY 1-2MM WH																																	
R LTH	522.0	543.0	CALC VNS.																																	
N	522.0	529.5	1	PBTF	CA2	BD	VV	3	4	4	4	B	D	1	VB								K6	61	D)							6 R				
L					AN								1										Q3	Q1							C 2 1 +					
N	522.0	543.0	1	PBTF	CA+	BD	VV	3	4	4	4	4	D	1	VB	25							24	61	L+						6 R					
L					5A								1										Q3	Q1							C 2 1 +					
P	543.0	556.0		PBTF	CA2	BR	SR						0	P	4	F/	25						K6	6R	B?						6 B					
L					8A	KR							8											C2							C 1					
R LTH	543.0	556.0	HIGHLY SHATTERED SEDS LACED W CALC SM & BXA'D MOD LIMY. DK GY																																	
R LTH	543.0	556.0	NON BDD. TR GILS STN. WK FLT @25 DEG. 554-555																																	
P	556.0	562.0		PBVS	RF	CA1	BI	0	6	6	P	2	P	0	VB								22		B)											
L					AT			3	2	4	0	2																								
R LTH	556.0	562.0	POSS TUFF. ANG FRAGS TAN FG LIMY SILTST. OCC ZONED W DK GY																																	
R LTH	556.0	562.0	CENTRE (LARGER CLASTS). DK GY SILTY MATR. V MINOR THIN CALC																																	
R LTH	556.0	562.0	VLTs.																																	
P	562.0	630.0		PBSD	CA+	BD							1	P	0	VB	50						22	6R	B+											
L					AN																		Q3	C1								1 +				
R LTH	562.0	630.0	TYPICAL PB BANDED SILTSTONE. GY/BK BDD SHALLOW DIPPING SEDS.																																	
R LTH	562.0	630.0	FRESH, CLEAN LOOKING EXCEPT V MINOR EPI LAM(ALT'D BEDS) TO 1CM.																																	
R LTH	562.0	630.0	PATCHY EPI VNS 597-598 & EPI/ZED 603.5 - 604.5. 1-2% PY DISS																																	
R LTH	562.0	630.0	THRU-OUT & OCC 1-2MM PY LAM ON B6.																																	
P	630.0	653.0		PBSD	CA+	ED	BN	2	2	2	4	P	0	VB	30								24	61	C+											
L					BN								X											T1												
R LTH	630.0	653.0	BK. FAIRLY MASSIVE WEAKLY LIMY SEDS. OCC BNDD. SMASHED TO																																	
R LTH	630.0	653.0	BITS																																	
R LTH	630.0	653.0	MOD PY AS FF, OCC DISS & LAM.																																	
P	653.0	662.0		PBTF	VF	RF	CA)																	82		C+										

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DRILLHOLE/TRVERSE : E-068 (CONTINUED)

F - INTERVAL -			CORE RECOVERY (FT. 1)	% ROCK TYPE	TYPICAL MIN MAT 1 2 QM1 1 2 F F C P # TX	TEXTURES	GRAIN CHARACTERS	FRAC-TURE	STRUCTURE-1 ALTERATION MINS											SUMMARY										
K L (UNITS = FT)	FROM	TO							T ID	STK	DIP	A	A	A	A	A	A	A	A		A	A	A	A	A					
E A				ROCK QUAL	FOR EN	RT	TM	QZ	TX	TX	S	R	S	D	DIP	F	T	ID	STK	DIP	KF	MU	CL	EP	HE	HA	PR	NO	SL	HA
Y B				DESIG	AGE	COL	R D P C			STRUCTURE-2																				
R LTH	873.5	885.0	PRISMATIC PYROX STM'D PALE PNK, 30% CLOUDY WH RDD FSP +/- QZ																											
R LTH	873.5	885.0	PHENOS TO 8MM.																											
R LTH	873.5	885.0	PERV PALE MAUVE/PINK STM TO MATRIX. WK EPI PATCHY ACT. MOD SILS																											
R LTH	873.5	885.0	FF TO 877																											
P L	885.0	891.0	PPHB HB FX 46											PP 1 5 7 B 1 E 2 F/ 50 92		23 61 8)		1 5												
R LTH	885.0	891.0	MED/DK GN FRAC'D MAFIC PORPH. STR CHL & RY ALT OF MAG PHENOS.																											
R LTH	885.0	891.0	EPI ON FRACS & MNRS PATCHES. WK SHRD C/W SILS IN SHRS. OCC																											
R LTH	885.0	891.0	CALC VN.																											
P L	891.0	896.5	ALTO PB 76											P/ 4		P 63 77 98		FD 8) 23		1 7										
R LTH	891.0	896.5	CHL/EPI ALT'D VOLC. DK GN, STR FRAC'D. & HEALED. STR EPI.																											
R LTH	891.0	896.5	OCC VMLT PALE YELLOW DOLOMITE. POSS ALT'D HBL PORPH.																											
P L	896.5	943.0	PBSD 4A											CA1 BD BN 2 2 8 P 0 BD 50 94		62 66 64		61 8+ 0? CI		2 E 1 5										
R LTH	896.5	943.0	MOD SLC'D ALT'D BDD SEDS. EPI ALT MOD-STR AS PATCHES.																											
R LTH	896.5	943.0	LAMELLAE & FRAC FLNG. WK/V WK PRIN CALC. MINOR CALC VLT. PY																											
R LTH	896.5	943.0	SPOTTY. OCC PATCH TO 10% IN STR EPI ALT ZONE. TR ZEO FF. BG																											
R LTH	896.5	943.0	VARIES 30-55 DEG. TO C/A, AVG'S APT 50 DEG.																											
R MIN	921.0	925.0	DK BEDS CONSIST OF DK GY/BN MINERAL THAT TURNS DK GN ON APPL OF																											
R MIN	921.0	925.0	HCL.																											
R LTH	924.0	943.0	BDD SEDS AS ABOVE W INCR SLC'N. OCC BED POROUS WKLY REACTIVE																											
R LTH	924.0	943.0	SEDS TO 6CM - LT TAN/CREAM DOL?																											
N L	924.0	943.0	X PBSD BN											CA1 BD BN 2 2 8 D 0 BD 55 95		23 64 64		FD 8+ 0? C3		6 I 1 5										
P L	943.0	949.5	PPHB HB											PP 2 K 2 L 2		P 93		2E 6+		6 I										
R LTH	943.0	949.5	PINK HBL PORPH. MATR BLEACHED & ALT'D TO PALE PNK WITH OCC Y'SH																											
R LTH	943.0	949.5	EPI STM PATCHES. EUN. PHENOS ALT'D TO CHL +/- EPI. 1-2% VFB																											
R LTH	943.0	949.5	DISS PY. NON LIMY.																											
P L	949.5	980.0	PBSD 6A											CA= BD E E E 2 P 0 BD 60 93		6+		L4 23		1 4										
R LTH	949.5	980.0	BANDED MED/DK GN/GY, LT & DK GY SEDS. OCC SILS FF. WK CHL ALT																											
R LTH	949.5	980.0	& MINOR EPI AS VLT & LAM.																											
N L	982.5	972.0	X PBSD											BR		N		85 64		1 5										
P L	980.0	1047.5	PBSD 6A											CA+ BD 2 2 E 8 E 0 BD 50 93		22 64 64		61 61 0? C2		1 5										

Island Copper Mine
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DRILLHOLE/TRVERSE : E-06B (CONTINUED)

F - INTERVAL - K L (UNITS = FT)		CORE RECOV- ERY (FT.1)	% M I X T Y P E	TYPI- GAL M R O C K F Y I N G	TEX- T U R E S	GRAIN FRAC- C H A R A C T E R S	STRUCTUR-1 I D E N T I F I C A T I O N	ALTERATION M I N S	ORE-TYPE M I N S	SUMMARY
E A Y G FROM - TO		ROCK QUAL DESIG	FOR EN RT M E K A G E	TM QM2 TX TX S R S D M V Q LC- 3 C O L	TX TX S R S D 3 4 0 N H / S M L I R D P C	DIP F DIP I	T ID STK DIP KF MU 1 AZM RT 2 AZM RT STRUCTUR-2	A A A A A A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	A A A A A A MIN A A A A A A M I N A A A A A A A	
L			MA					Q5 C3	C3	1)
P	1384.0	1396.5	PBSD	CA+ BD BN 2 2 2	B P 0 BD	50 93	22	ZE 6+		
L					3			B5 B4	C2	6?
R LTH	1384.0	1396.5	MOD SLC'D CHL & EPI ALT'D BDD SEDS. CUT BY 1.5CM CALC. BXA VN							
R LTH	1384.0	1396.5	C/W DULL BN STM (SPHAL?). LAMINAR PY TO 1CM ALONG BG. WK DISS							
R LTH	1384.0	1396.5	PY. V WK ZED FF, OCC PNK STM ALONG BG(ZED?)							
P	1396.5	1411.0	PBTF VF RF	FR	2 5 4 6	P	Q3 Q3	22	6=	1 4
L			LP 46					B4 D1 Q2	B?	1 =
R LTH	1396.5	1411.0	MOD CHL +/- BID? ALT'D LAP TUFF. MED-DK GN C/W RUSTY BN							
R LTH	1396.5	1411.0	PATCHES POSS BIO &/OR HEM STM. 2% VFB DIS PY & 2-3% FF PY.							
R LTH	1396.5	1411.0	UPPER CCT BLEACHED WH C/W EPI ALT'D CLASTS OVER 40CM & MOD							
R LTH	1396.5	1411.0	SLC'D. LOWER CCT BLEACHED BY C/W CHL +/- PY ALT'D CLASTS							
R LTH	1396.5	1411.0	OVER 20CM. V. HARD CORE							
P	1411.0	1431.0	PBSD	CA1 BD BN 2 2 2	B P 0 BD	45 95	23	ZE D)		6 1 9 4
L			6A		B			93 Q5	23	T 2 1)
R	1411.0	1431.0	HLY FRAC'D BDD SLTST, MOD SLC'D. LOWER SECT STR EPI ALT AS VNG							
R	1411.0	1431.0	V. PALE PNK-EPI (THULITE) WK GILS STM IN SOME CALC VNS. CHL							
R	1411.0	1431.0	ALT'D IN DK BBS.							
P	1431.0	1499.0	PBVS	QZ3 AN	1 1	3 P 1 VP	60 98		ZE 6+	9 7
L			R6		2			Q6 23	21	1 +
R LTH	1431.0	1499.0	STR-V STR SLC'D VFB ROCK, POSS TUFF. V HARD. PERV MOD CHL AS							
R LTH	1431.0	1499.0	PATCHES & ALONG FRACS IN GEN'LY LT-MED BY MATERIAL. OCC PATCH							
R LTH	1431.0	1499.0	MED-V DK CHOC. BRN STM. RESEMBLES GILS STM'D CALC IN COLOUR,							
R LTH	1431.0	1499.0	BUT IS V HARD-DISCOLOURS HLY SLC'D ROCK. PY OCC ALONG FRACS							
R LTH	1431.0	1499.0	A/W CHL. MINOR EPI AS VLT TO SMN. EPI RANGES FR PALE Y/GN-MED							
R LTH	1431.0	1499.0	LIRY EPI GRAIN. TR WH ZED FF. RECOGNIZABLE ASH TUFFS. SLLY LESS							
R LTH	1431.0	1499.0	SLC'D 1480.5 - 1483, 1493-95.							
R ALT	1431.0	1499.0	BRN PATCHY ALT DECR @ 1460 TO ALMOST NULL. THIS STAIN APPEARS							
R ALT	1431.0	1499.0	TO BE SOME FORM OF HYDROCARBON- OCC VLT & FF SHOWS TYPICAL GILS							
R ALT	1431.0	1499.0	HABIT. POSS VAGUE COARSE ASH TIT 1480 - 1499.							
P	1499.0	1514.0	PBTF VF RF		1 3 2 4	4 P 0 VP	40 98		61 6=	9 6
L			R6		0 3			Q5 21 T? Q2	D?	1 =
R LTH	1499.0	1514.0	V SLC'S FB ASH TUFF. PATCHY MOD CHL ALT, WK EPI VNG. STRONGLY							
R LTH	1499.0	1514.0	RESEMBLES 1431-1499 EXC DISCERNABLE TUFF TIT. 2-3% PY AS FF							
R LTH	1499.0	1514.0	& 1% AS VFB DISS. POSS DK BRONZY VFB DISS INS AS WELL (<.05MM)							
R LTH	1499.0	1514.0	MINOR CHOC BRN (HCOx?) STM AS WELL							
P	1514.0	1550.0	PBSD HE	BD BN 1 2 2	B P 0 BD	55 97	23	ZE 2+		6 1 9 7
L			R6	61*	0 3 0 <<	45	85 11	C1		8 3 1 +

Island Copper Mine
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DRILLHOLE/TRVERSE : E-068 (CONTINUED)

F - INTERVAL -		CORE RECDV- ERY (FT.1)	X M I X	TYP1- M I T	DAL M T	TEX- TX M	GRAIN FRAC- TURES F C % M	STRUCTUR-1 T ID STK DIP	ALTERATION A A A A A	MINS H H H R H	DRE-TYPE MIN A A A	MINS H H H ANY	SUMMARY																
X L (UNITS = FT)	Y B FROM - TO																												
K F	E L	ROCK	FOR	EN	RT	TM	QM2	TX	TX	S	R	S	D	DIP	F	T	ID	STK	DIP	KF	NU	CL	EP	HE	HA	PR	MO	SL	HA
Y B	DESIG	AGE	COL	R	D	P	C	STRUCTUR-2	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
R	1747.5	1756.0	TO 1756. MINOR CALC VNG. 1751-52 STR SLC'D C/W 10% EDK. RED																										
R	1747.5	1756.0	BN GARN SM ENV OF HONEY-BN GARN ADJ TO SLC'D ZONE @ 1752, ALSO																										
R	1747.5	1756.0	PATCHY HONEY-BN GARN 1754.3-1755.3-5% PY AS AGG TO 1CM & DISS.																										
R	1747.5	1756.0	MINOR GILS STAIN IN CALC BXA VNG @ 1753.5, 1755.5.																										
P	1756.0	1787.0	GALS CA B/ UN J K L B P O SM GI 8?																										
L			2A EQ 3 C4 1?																										
R	1756.0	1787.0	WH-LT BY XTAL'N LST LACED BY MURS FRACS FILLED W GILS +/- TR PY																										
R	1756.0	1787.0	XTALS TO 1CM. SEVERAL SECTIONS CONT TUFF FRAGS IN VARYING																										
R	1756.0	1787.0	AMT'S																										
R	1756.0	1787.0	WITH SKARN ALT AS NOTED BELOW. THE FRAC'S GIVE VAGUE BXA LOOK,																										
R	1756.0	1787.0	GRADING TO TRUE BXA TXT IN SOME TUFF SECT.																										
R	1767.0	1770.5	10-20% TUFF FRAGS IN BXA'D LIMESTONE. TUFF FRAGS V LT PINK GARN?																										
R	1767.0	1770.5	ALT'D																										
N	1767.0	1770.5	2 TUFF CA VF BR J X O B D GI 6?														6 A												
L			QL BR 2A EQ 3 C4 0 4 1?																										
R	1773.0	1774.8	MOSTLY BXA'D LIMY TUFF C/W MINOR LST. FRAG SIZE APT 1CM.																										
R	1773.0	1774.8	MOD/STR SER ALT C.W SM AMT STR CHL.																										
N	1773.0	1774.8	7 TUFF VF CA BR J 6 6 B D GI 6?																										
L			QL BX 2A EQ 3 B5 B5 C4 1?																										
R	1779.0	1782.0	FINELY BXA'D MIX OF 60% LST, 40% VOLC FRAGS IN BK LIMY GILS																										
R	1779.0	1782.0	MATR. MOD SKN ALT'D TUFFS C/W TAN-RED/BN GARN, MINOR HEM & POSS																										
R	1779.0	1782.0	LT GN PYROX. 3-5% FG DISS PY																										
N	1779.0	1782.0	X BRXX VF CA BR UN J 5 4 B D GI 6+														6 A												
L			QL TF 2A EQ 4 T1 25 0 5 1?																										
P	1787.0	1800.5	BRXX VF HE CA1 BR 7 P O SM B6 23 GI 0?														6 A												
L			TF 4A B4 T3 K4 0 3 1)																										
R	1787.0	1800.5	BXA'D GEN'LY LT BY SLC'D FG ROCK C/W MOD PATCHY HEM STM &																										
R	1787.0	1800.5	FILLED WITH GILS-STM'D CALC OR GILS MATRIX. WEAKLY LIMY. THIS																										
R	1787.0	1800.5	APPEARS TO BE A STAGLY, SLC'D VOLC (TUFF??) THAT HAS BEEN BXA'D																										
R	1787.0	1800.5	& SKARNIFIED. SOME RED-BN & HONEY- BN GARNETS ARE NOTED																										
R	1787.0	1800.5	(1788,1799,1800) BUT THE VOLCS ARE GEN'LY SL SER ALT'D +/- CHL																										
R	1787.0	1800.5	& HEM STM'D. 1-2% SPORADIC DISS PY.																										
P	1800.5	1817.0	PPQF FX QZ PP 2 5 6 P 22 GI 6+														2 E 1 5												
L			56 0 4 85 04 2 4 1 +																										
R	1800.5	1817.0	CHL ALT'D QFP. 1800-1807 IS BK GN, LT GN/SY 1807-17. 40%																										
R	1800.5	1817.0	XENOLITH DK RED BN GARN 1801-1803.5. QZ EYES TO 1CM, DECR IN																										
R	1800.5	1817.0	SIZE TO 4MM																										
R	1800.5	1817.0	1805-1806.5 (DIFFERENT PHASE??) MAFICS STR'LY CHL'D THROUGHOUT																										
R	1800.5	1817.0	STM GILS @ 1803. MINOR HEM STM ON WK SHRS. MINOR DISS PY																										
N	1801.5	1803.0	X SKAR FR GAB EQ 3 3 N 6A																										
L			XE RU 99																										

Island Copper Mine
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DRILLHOLE/TRVERSE : E-06B (CONTINUED)

SUMMARY REMARKS

1219-1220

BXA'D SLTST C/W WH CALC MATR

1220-1431

60-40 MIX DF DK GN SLLY CHL ALT'D FG ASH TUFF & HLY SLC'D
BDD WH & BY SEDS IN RUNS APT 30 FT. THICK

1431-1514

INTENSELY SLC'D PATCHY LT BY & OFF-WH VFG F6TL, POSS VFG ASH
TUFF. SL INCR IN GRAIN SIZE 1499-1514. WK PERV & FF CHL ALT.
1514-1648MIXTURE (AS 1220-1431) OF WH & BY BDD SEDS, STRLY SLD & RUNS DF
FG, WK CHL ALT'D ASH TUFF. MOD PY FF IN SUB-PARALLEL FRAC SET
WITHIN TUFF BAND. THIS SECT 80% SEDS, 20% TUFF.

1648-1658

BXA'D LT BY GN TUFF C/W BK LIMY MATR FRAGS TO 10CM +
1658-60

STR FLT @ 40 DEG. TO CA

1660-1787

CRYSTALLINE LST. WH-V.LT BY CBT BY MNRS BILS COATED FRAC'S
FRAC'S GIVES PSEUDO-BXA APPRNC. ROT'L BXA C/W RDD FRAGS IN
SHORT RUNS APT 1700-1710.

1703-1724

MOD LIMY, SLC'D & PATCHY SER/KAOL'D BLEACHED (WH) FG TUFFS.
THIS SECT CONT ZONES DISS BK SPHAL & MINOR COARSE DISS CPY
1744-1756CHL'D & PATCHY HEM STN'D ASH TUFF. DK GN FG, WK CALC VNG.
DCC HONEY BRN GARN PATCH.

1787-1800.5

POLY MICT BXA OF LST (60%) & TUFF (40%) FRACS IN BILS STN'D
CALC MATR. TUFF FRAGS MOD SKN'D & CONT RD BN GARN, TR HEM &
POSS PYROX. BXA FRAG SIZE APT 1CM.

1800.5-1825

MOD/STR CHL +/- EPI ALT DK GN QFP C/W XENO'S RD/BN GARN SKN &
MNR STR EPI ALT'D ZONES

1825-1835

RD/BN GARN SKN BXA C/W WH CALC MATR. POSS XENO/INCL IN QFP
LOWER CCT (1833.5-1835) MOD SHR ZONE @ 30 DEG. TO CA

1835-1867

SOFT CRUMBLY ZEO/CHL ALT'D GRANITIC INTR, POSS PORPH'C. MOD
SHRD THRU-OUT C/W STR ZEO & STR CHL. DCC 3CM GONGE/CLAY SEAM
1867-2012BR/TAN-LT BN QFP C/W MOD CHL ALT DF MAF & MOD SER ALT DF FSP,
WK ZEO FF, V MINOR PY DISS. MOD BILS 1952-56

DIAMOND DRILL HOLE ASSAYS

9:54 FRIDAY, FEBRUARY 20, 1987

HOLE#E-058

FROM	TO	CU PCT	MO PCT	FE PCT	AU PPM	AG PPM	PB PCT	ZN PCT	TRAC
10.0	20.0	0.05	0.010	5.2	-0.010	0.150	0.002	0.015	4214
20.0	30.0	0.05	0.010	5.9	-0.010	0.270	0.002	0.015	4215
24.0	30.0	0.05	0.007	7.6	-0.010	0.400	0.001	0.009	4162
30.0	40.0	0.05	0.007	7.7	-0.010	0.350	0.001	0.008	4163
40.0	50.0	0.06	0.006	7.8	.	.	.	.	4041
50.0	60.0	0.05	0.007	8.0	-0.010	0.510	0.001	0.008	4164
60.0	70.0	0.05	0.007	7.7	-0.010	0.270	0.001	0.004	4165
70.0	80.0	0.05	0.007	8.5	-0.010	0.390	0.001	0.009	4166
80.0	90.0	0.05	0.006	8.4	.	.	.	.	4042
90.0	100.0	0.05	0.008	8.5	-0.010	0.320	0.001	0.010	4168
100.0	110.0	0.05	0.006	8.3	-0.010	0.380	0.001	0.010	4169
110.0	120.0	0.05	0.007	8.7	-0.010	0.210	0.001	0.008	4170
120.0	130.0	0.05	0.006	8.1	-0.010	0.240	0.001	0.009	4171
130.0	140.0	0.05	0.007	8.0	-0.010	0.410	0.003	0.008	4172
140.0	150.0	0.05	0.006	7.0	-0.010	0.480	0.001	0.011	4173
150.0	160.0	0.05	0.006	7.0	-0.010	0.470	0.001	0.012	4174
160.0	170.0	0.05	0.006	8.1	.	.	.	.	4043
170.0	180.0	0.05	0.006	9.1	-0.010	0.670	0.001	0.010	4175
180.0	190.0	0.05	0.007	8.8	-0.010	0.470	0.001	0.010	4176
190.0	200.0	0.05	0.007	8.5	-0.010	0.500	0.011	0.011	4177
200.0	210.0	0.05	0.007	8.7	-0.010	0.310	0.001	0.010	4178
210.0	220.0	0.05	0.006	8.7	-0.010	0.300	0.001	0.011	4179
220.0	230.0	0.05	0.007	8.8	-0.010	0.250	0.001	0.010	4180
230.0	240.0	0.05	0.007	8.7	-0.010	0.300	0.001	0.009	4181
240.0	250.0	0.05	0.006	9.0	.	.	.	.	4044
250.0	260.0	0.05	0.006	6.9	-0.010	0.120	0.002	0.010	4182
260.0	270.0	0.05	0.007	8.2	-0.010	0.010	0.002	0.010	4183
270.0	280.0	0.05	0.007	8.5	-0.010	0.010	0.002	0.011	4184
280.0	290.0	0.05	0.007	7.6	-0.010	0.120	0.002	0.010	4185
290.0	300.0	0.05	0.007	8.2	-0.010	0.150	0.003	0.009	4186
300.0	310.0	0.05	0.007	7.0	-0.010	0.270	0.002	0.010	4187
310.0	320.0	0.05	0.007	8.0	-0.010	0.220	0.001	0.010	4188
320.0	330.0	0.05	0.006	8.0	.	.	.	.	4045
330.0	340.0	0.05	0.007	7.8	-0.010	0.310	0.001	0.012	4189
340.0	350.0	0.05	0.007	8.3	-0.010	0.250	0.002	0.011	4190
350.0	360.0	0.05	0.007	7.9	-0.010	0.160	0.002	0.011	4191
360.0	370.0	0.05	0.007	8.0	-0.010	0.180	0.001	0.011	4192
370.0	380.0	0.05	0.007	7.9	-0.010	0.230	0.002	0.010	4193
380.0	390.0	0.05	0.007	7.5	-0.010	0.130	0.002	0.011	4194
390.0	400.0	0.05	0.007	7.5	-0.010	0.030	0.002	0.007	4195
400.0	410.0	0.05	0.006	7.4	.	.	.	.	4046
410.0	420.0	0.05	0.007	6.4	-0.010	0.190	0.002	0.013	4196
420.0	430.0	0.05	0.011	5.4	-0.010	0.420	0.002	0.029	4197
430.0	440.0	0.05	0.013	3.4	-0.010	0.590	0.002	0.028	4198
440.0	450.0	0.05	0.012	4.8	-0.010	0.530	0.003	0.031	4199
450.0	460.0	0.05	0.011	4.8	-0.010	0.490	0.001	0.028	4200
460.0	470.0	0.05	0.010	5.6	-0.010	0.420	0.003	0.025	4201
470.0	480.0	0.05	0.009	6.4	-0.010	0.490	0.011	0.025	4202
480.0	490.0	0.05	0.007	7.7	.	.	.	.	4047
490.0	500.0	0.06	0.009	6.9	-0.010	0.400	0.003	0.007	4203
500.0	510.0	0.05	0.009	4.7	-0.010	0.420	0.003	0.009	4204
510.0	520.0	0.05	0.009	6.7	-0.010	0.320	0.003	0.011	4205

DIAMOND DRILL HOLE ASSAYS

9:54 FRIDAY, FEBRUARY 20, 1987

HOLE#C-068

FROM	TO	CU PCT	MO PCT	FE PCT	AU PPM	AG PPM	PB PCT	ZN PCT	FR
520.0	530.0	0.04	0.009	2.7	0.020	0.090	0.002	0.019	4206
530.0	540.0	0.04	0.010	4.3	0.010	0.140	0.002	0.014	4207
540.0	550.0	0.05	0.009	6.8	-0.010	0.190	0.002	0.012	4208
550.0	560.0	0.05	0.009	5.2	-0.010	0.160	0.002	0.012	4209
560.0	570.0	0.05	0.007	5.2	.	.	.	.	4048
570.0	580.0	0.05	0.010	4.0	-0.010	0.270	0.002	0.016	4210
580.0	590.0	0.05	0.010	4.4	-0.010	0.120	0.003	0.011	4211
590.0	600.0	0.05	0.010	4.3	-0.010	0.090	0.002	0.009	4212
600.0	610.0	0.05	0.009	5.7	-0.010	0.110	0.001	0.009	4213
630.0	640.0	0.05	0.008	5.6	-0.010	0.100	0.002	0.013	4216
640.0	650.0	0.05	0.007	5.1	.	.	.	.	4049
650.0	660.0	0.05	0.007	6.9	-0.010	0.120	0.004	0.013	4217
660.0	670.0	0.05	0.007	4.5	-0.010	0.190	0.002	0.009	4218
670.0	680.0	0.05	0.007	5.5	0.010	0.030	0.003	0.008	4219
680.0	690.0	0.05	0.007	8.8	-0.010	0.040	0.004	0.008	4220
690.0	700.0	0.05	0.007	9.2	-0.010	0.010	0.003	0.007	4221
700.0	710.0	0.05	0.007	8.2	0.010	0.010	0.005	0.008	4222
710.0	720.0	0.05	0.007	9.3	0.010	-0.010	0.005	0.010	4223
720.0	730.0	0.05	0.006	8.1	.	.	.	.	4050
730.0	740.0	0.05	0.007	6.7	-0.010	-0.010	0.002	0.007	4224
740.0	750.0	0.05	0.007	4.6	-0.010	-0.010	0.001	0.010	4225
750.0	760.0	0.05	0.007	6.1	-0.010	0.530	0.001	0.008	4226
760.0	770.0	0.05	0.007	6.1	0.010	0.490	0.003	0.005	4227
770.0	780.0	0.05	0.007	5.6	-0.010	0.490	0.004	0.006	4228
780.0	790.0	0.06	0.007	5.2	-0.010	0.460	0.006	0.015	4229
790.0	800.0	0.05	0.007	4.6	0.010	0.700	0.003	0.012	4230
800.0	810.0	0.06	0.007	6.3	.	.	.	.	4051
810.0	820.0	0.05	0.007	2.0	-0.010	0.440	0.005	0.014	4231
820.0	830.0	0.04	0.008	2.2	-0.010	0.780	0.004	0.015	4232
830.0	840.0	0.04	0.008	2.5	-0.010	0.720	0.002	0.015	4233
840.0	850.0	0.04	0.007	2.1	-0.010	0.570	0.004	0.045	4234
850.0	860.0	0.04	0.009	4.3	0.010	0.540	0.002	0.017	4235
860.0	870.0	0.04	0.007	2.7	-0.010	0.550	0.003	0.037	4236
870.0	880.0	0.04	0.007	4.0	-0.010	0.470	0.002	0.015	4237
880.0	890.0	0.05	0.006	4.9	.	.	.	.	4052
890.0	900.0	0.05	0.006	6.9	-0.010	0.570	0.002	0.008	4238
900.0	910.0	0.04	0.010	6.0	0.010	0.480	0.001	0.005	4239
910.0	920.0	0.04	0.008	4.8	-0.010	0.490	0.004	0.055	4240
960.0	970.0	0.05	0.006	5.0	.	.	.	.	4053
1000.0	1010.0	0.05	0.008	4.3	0.010	-0.010	0.005	0.097	4242
1040.0	1050.0	0.05	0.007	5.7	.	.	.	.	4054
1080.0	1090.0	0.05	0.007	7.6	0.010	-0.010	0.004	0.132	4243
1120.0	1130.0	0.06	0.006	8.4	.	.	.	.	4055
1160.0	1170.0	0.04	0.007	7.1	0.010	-0.010	0.003	0.014	4244
1200.0	1210.0	0.06	0.008	4.9	.	.	.	.	4056
1240.0	1250.0	0.04	0.008	3.8	0.010	-0.010	0.004	0.009	4245
1280.0	1290.0	0.05	0.007	6.2	.	.	.	.	4057
1320.0	1330.0	0.04	0.009	6.3	-0.010	0.040	0.002	0.014	4246
1360.0	1370.0	0.05	0.008	7.8	.	.	.	.	4058
1400.0	1410.0	0.05	0.007	8.0	0.010	-0.010	0.003	0.010	4247
1440.0	1450.0	0.06	0.006	3.2	-0.010	0.100	0.003	0.007	4059
1480.0	1490.0	0.04	0.008	4.0	0.010	-0.010	0.003	0.006	4248

DIAMOND DRILL HOLE ASSAYS

9:54 FRIDAY, FEBRUARY 20, 1987

HOLE#E-069

FROM	TO	CU PCT	MO PCT	FE PCT	AU PPM	AG PPM	PB PCT	ZN PCT	TOT
1520.0	1530.0	0.05	0.007	2.6	-0.010	0.010	0.003	0.013	4060
1560.0	1570.0	0.04	0.008	4.9	0.010	-0.010	0.003	0.007	4247
1600.0	1610.0	0.06	0.006	6.9	-0.010	0.140	0.002	0.007	4061
1680.0	1690.0	0.06	0.006	0.4	-0.010	-0.010	0.006	0.007	4062
1760.0	1770.0	0.05	0.006	0.5	-0.010	2.050	0.044	0.032	4063
1630.0	1640.0	0.00	0.008	3.1	-0.010	0.310	0.003	0.011	4525
1640.0	1650.0	0.04	0.008	4.3	0.010	-0.010	0.006	0.068	4250
1800.0	1810.0	0.04	0.009	3.7	0.000	-0.010	0.004	0.013	4251
1810.0	1820.0	0.00	0.009	4.0	0.010	0.100	0.005	0.016	4524
1820.0	1825.0	0.00	0.009	4.5	0.010	0.100	0.006	0.023	4524
1825.0	1835.0	0.00	0.007	9.3	-0.010	0.120	0.005	0.021	4520
1835.0	1840.0	0.00	0.009	2.7	-0.010	0.070	0.005	0.028	4521
1840.0	1846.0	0.05	0.007	4.8	-0.010	-0.010	0.003	0.012	4064
1846.0	1850.0	0.00	0.008	4.0	0.010	0.760	0.009	0.192	4520
1880.0	1890.0	0.05	0.009	2.7	0.010	-0.010	0.003	0.009	4252
1920.0	1930.0	0.05	0.009	3.0	-0.010	0.070	0.001	0.006	4065
1960.0	1970.0	0.03	0.010	2.0	-0.010	-0.010	0.005	0.010	4253
2000.0	2010.0	0.04	0.009	2.8	-0.010	-0.010	0.001	0.007	4066

LINE	ROCK CODE	ROCK DESCRIPTION	SYMBOL	NUMBER	VALUE
1	ALTD	altered rock			
2	APLT	APLITE DYKE			0.00
3	BRXX	BRECCIA:UNDIFFERENTIATED			0.00
4	BS7D	ANDESITE TO BASALT DIKE - POST	0		0.00
5	BVAB	BONANZA ANDESITE BRECCIA - PRE	0		0.00
6	BVAF	BONANZA ANDESITE FLOW AND PURP	0		0.00
7	BVAG	BONANZA AGGLOMERATES	0		0.00
8	BVAN	BONANZA ANDESITE UNDIFF. - PRE	0		0.00
9	BVAT	BONANZA ANDESITE TUFF - PRE MI	0		0.00
10	CASN	CASING IN BED ROCK, NO CORE	0		0.00
11	CRDB	CRETACEOUS CONGLOMERATE	0		0.00
12	CRSD	CRETACEOUS SEDIMENTS - UNDIFF.	0		0.00
13	CAUL	FAULT (GULGE ZONE > 1 FT)	0		0.00
14	INRX	INTRUSIVE BRECCIA - UNDIFF.	0		0.00
15	ISBR	ISLAND INTRUSIVES DIORITE	0		0.00
16	ISGD	ISLAND INTRUSIVES GRANODIORITE	0		0.00
17	ISQD	ISLAND INTRUSIVES QUARTZ DIORITE	0		0.00
18	ISRH	ISLAND INTRUSIVES QUARTZ MONZO	0		0.00
19	EMDA	FARHUTSEN VOLCANICS - UNDIFF.	0		0.00
20	KNLS	FARHUTSEN LIMESTONE	0		0.00
21	MARD	MARBLE			
22	MASS	MASSIVE SULPHIDES			
23	MAIR	MATRIX DESCRIPTION			0.00
24	MISH	MISSING CORE (CORE NOT AVAILAB	0		0.00
25	OVER	OVERBURDEN	0		0.00
26	PBLS	PARSONS BAY LIMESTONE			0.00
27	PBSD	PARSONS BAY SEDIMENTS	0		0.00
28	PBTU	PARSONS BAY TUFF	0		0.00
29	PBVS	PARSON			0.00
30	PE7B	PORPHYRITIC BASALT			
31	PPAN	BONANZA ANDESITE PORPHYRY DIKE	0		0.00
32	PPDR	QUARTZ, DIORITE TO DIORITE POR	0		0.00
33	PPFX	FELDSPAR PORPHYRY DYKE	0		0.00
34	PPGD	GRANODIORITE PORPHYRY DIKE - I	0		0.00
35	PPHB	HORNBLende PORPHYRY			0.00
36	PPQF	QUARTZ-FELDSPAR PORPHYRY DIKE	0		0.00
37	PPQM	QUARTZ MONZONITE PORPHYRY DIKE	0		0.00
38	QALS	QUATSINO LIMESTONE	0		0.00
39	QTZV	QUARTZ VEIN			0.00
40	RSGD	RUPERT STOCK GRANODIORITE	0		0.00
41	RSQM	RUPERT STOCK QUARTZ MONZONITE	0		0.00
42	SAND	SAND (ASSOCIATED) WITH FAULT)	0		0.00
43	SEAR	SKARNIFIED/ALTERED			0.00
44	STKP	CASING ABOVE GROUND	0		0.00
45	TUFF	TUFF - FORMATION UNSPECIFIED			
46	VEIN	vein			

GEOLOG TYPIFYING MINERALS				
LINE	MINERAL CODE	ROCK DESCRIPTION	SYMBOL NUMBER	VALUE
1	"	clear field		
2	AP	APATITE		0.00
3	BI	BIOTITE		0.00
4	CA	calcite		
5	CR	CARBONATE		0.00
6	CL	CHLORITE		0.00
7	CP	chalcopynite		
8	CY	CLAY		0.00
9	DU	DUMORTIERITE		0.00
10	EN	ENARGITE (?)		0.00
11	EP	epidote field		
12	FD	feldspathoids, general		
13	FL	FLUORITE		0.00
14	FX	FELDSPAR PHENOCRYST		0.00
15	GA	GARNET		0.00
16	GG	GOUGE		0.00
17	GI	GILSONITE		0.00
18	GL	galena		
19	GR	graphite		
20	HB	HORNBLende		0.00
21	HE	HEMATITE		
22	IF	INTRUSIVE FRAGMENTS		0.00
23	LA	LAUMONTITE		0.00
24	MG	MAGNETITE		0.00
25	MX	MAFIC PHENOCRYSTS		0.00
26	PP	PYROPHILLITE		0.00
27	PX	PYROXENE		0.00
28	QF	QUARTZ FRAGMENT		0.00
29	QX	QUARTZ PHENOCRYSTS		0.00
30	QZ	QUARTZ		0.00
31	RF	ROCK FRAGMENT		0.00
32	SP	sphalerite		
33	VF	VOLCANIC FRAGMENTS		0.00
34	X1	ENARGITE		0.00
35	X2	UN ID		0.00
36	X3	UN ID		0.00
37	X4	SOFT GRY GYPSUM(?)		0.00
38	X5	BRN CHLORITE(?)		0.00
39	X6	BRN BIOTITE (?)		0.00
40	X7	SOFT BK HYDROCARB ?		0.00
41	X8	GRN CALC-SILICATE		0.00
42	ZE	ZEOLITE		0.00

GEOLOG ROCK QUALITY CODES

LINE	ROCK QUALITY	QUALITY DESCRIPTION	SYMBOL NUMBER	VALUE
1	"	clear field		0.00
2	AG	agglomerate		0.00
3	AS	ash tuff		0.00
4	BN	banded		0.00
5	BR	brecciated		0.00
6	CU	copper bearing		0.00
7	LP	lapilli tuff		0.00
8	LT	lithic		0.00
9	TF	tuffaceous		0.00
10	VB	volcanic breccia		0.00
11	XE	xenolithic		0.00
12	XL	crystal tuff		0.00

LINE	TEXTURE CODE	TEXTURE DESCRIPTION	SYMBOL NUMBER	VALUE
1				0.00
2	SS	SLICKENSIDES		0.00
3	O.			
4	<<	MICROVEINED		0.00
5	<H	subhedral		
6	A*	AMYGDALOIDAL		0.00
7	AH	APHANITIC		0.00
8	AP	APLITIC		0.00
9	AR	ARGILLACEOUS		0.00
10	B/	vague bedding		
11	BD	BEDDED	34	0.00
12	BN	BANDED	34	0.00
13	BR	BRECCIATED	34	0.00
14	CM	CHILLED MARGIN	34	0.00
15	CT	CLASTIC	34	0.00
16	EQ	EQUIGRANULAR	34	0.00
17	EU	EUHEDRAL		0.00
18	FR	FRAGMENTAL	34	0.00
19	G;	GRADED BEDDING		0.00
20	GG	GOUGED	34	0.00
21	KR	CRACKLED	34	0.00
22	LM	LAMINATED		0.00
23	LT	LITHIC TUFF		0.00
24	MX	MASSIVE		0.00
25	P/	vague phenocrysts		
26	PB	porphyroblastic		
27	PP	PORPHYRITIC	34	0.00
28	RA	ASYMMETRICAL		0.00
29	SH	SHEARED	34	0.00
30	SR	scoured		
31	SU	SUBHEDRAL		0.00
32	SW	STOCKWORK		72.00
33	T/	TUFFACEOUS (VAGUE/??)		0.00
34	UF	UNIFORM TEXTURED		0.00
35	UH	euhedral		
36	V/	VEINED		0.00
37	VG	VUGGY	34	0.00
38	VV	VEINED		0.00

LINE	SID CODE	SID DESCRIPTION	SYMBOL NUMBER	VALUE
1	"	clear field		
2	"	clear entry		
3	<<	microveined - <		0.00
4	>>	macrovein - >		
5	BD	BEDDING	34	0.00
6	BN	BANDING	34	0.00
7	BR	brecciated		
8	C/	CONTACT	34	0.00
9	CN	contact		
10	F/	FAULT	34	0.00
11	SH	SHEAR	34	0.00
12	SR	sheared		
13	SW	STOCKWORK	34	0.00
14	V/	MISC. VEINS		0.00
15	VA	QUARTZ PYRITE VEIN	34	0.00
16	VB	QUARTZ CARBONATE	34	0.00
17	VC	VEIN, CLAY	34	0.00
18	VF	MAGNETITE VEIN(LET)		0.00
19	VH	CHALCOPYRITE VEIN	34	0.00
20	VL	CALCITE VEIN		0.00
21	VM	QUARTZ MOLY VEIN	34	0.00
22	VN	vein		
23	VP	VEIN, PYRITE	34	0.00
24	VD	VEIN, QUARTZ	34	0.00
25	VT	QUARTZ MAGNETITE	34	0.00
26	VV	veined - 1mm to 10 cm		
27	VY	VEIN, PYROPHYLLITE	34	0.00
28	VZ	ZEOLITE VEIN		0.00

GEOLOG F-SCALE

LINE	FRACTURE CODE	FRACTURE DESCRIPTION	SYMBOL NUMBER	VALUE
1	"	clear field		0.00
2	0	0 Unfractured	27	0.00
3	1	1 Slightly fractured	28	0.00
4	2	3 Very lightly fracture	29	0.00
5	3	6 Lightly fractured	30	0.00
6	4	10 Fairly lightly fract	31	0.00
7	5	15 Moderately fractured	32	0.00
8	6	21 Fairly well fracture	33	0.00
9	7	28 Well fractured	34	0.00
10	8	36 Very well fractured	35	0.00
11	9	45 Extremely well fract	36	0.00
12	X	55+ Shattered	24	0.00

LINE	FLAG CODE	FLAG DESCRIPTION	SYMBOL NUMBER	VALUE
1	"	clear field		
2	ALT	REMARK, ALTERATION		0.00
3	ASB	REMARK, ASSAY FILE REMARKS		0.00
4	BSR	REMARK, BEDROCK SURFACE		0.00
5	COL	REMARK, COLOUR		0.00
6	CON	REMARK, CONTACT		0.00
7	FRC	REMARK, FRACTURE ZONE		0.00
8	HED	REMARK, HEADER; PRINTED AT TOP		0.00
9	LTH	REMARK, LITHOLOGY		0.00
10	MIN	REMARK, MINERAL (NON-SULPHIDE)		0.00
11	MNZ	REMARK, MINERALIZATION		0.00
12	OVB	OVERBURDEN		0.00
13	PHO	REMARK, PHOTO TAKEN		0.00
14	SAM	REMARK, SAMPLE TAKEN		0.00
15	STK	CASING ABOVE GROUND		0.00
16	STN	REMARK, SAMPLE STAINED		0.00
17	STR	REMARK, STRUCTURE		0.00
18	SUM	REMARK, SUMMARY; PRINTED AT BO		0.00
19	THN	REMARK, THIN SECTION		0.00
20	TXT	REMARK, TEXTURE		0.00
21	VEN	REMARK, VEIN		0.00
22	XRD	REMARK, X-RAY DIFFRACTION		0.00

GEOLOG C-SCALE: COLOR CODES

LINE	COLOR CODE	COLOR DESCRIPTION	SYMBOL NUMBER	VALUE
1	A	GREY	0	0.00
2	B	BLUE	0	0.00
3	G	GREEN	0	0.00
4	N	BLACK	0	0.00
5	O	ORANGE	0	0.00
6	P	PURPLE	0	0.00
7	R	RED OR PINK	0	0.00
8	T	TAN	0	0.00
9	U	BROWN	0	0.00
10	W	WHITE	0	0.00

GEOLOG L-SCALE: LIGHTNESS

LINE	LIGHT CODE	LIGHT DESCRIPTION	SYMBOL NUMBER	VALUE
1	0	DARKEST	0	0.00
2	1	DARKEST	0	0.00
3	2	VERY DARK	0	0.00
4	3	DARK	0	0.00
5	4	MEDIUM DARK	0	0.00
6	5	MEDIUM	0	0.00
7	6	MEDIUM LIGHT	0	0.00
8	7	LIGHT	0	0.00
9	8	PALE	0	0.00
10	9	FALEST	0	0.00
11	A	GREYISH	0	0.00
12	B	BLUISH	0	0.00
13	G	GREENISH	0	0.00
14	M	MOTTLED	0	0.00
15	N	BLACK OR BLACKISH	0	0.00
16	D	ORANGISH	0	0.00
17	P	PURPLISH	0	0.00
18	R	PINKISH OR REDDISH	0	0.00
19	T	TAN OR TAN-ISH	0	0.00
20	U	BROWNISH	0	0.00
21	W	WHITE	0	0.00
22	Y	YELLOWISH	0	0.00

GEOLOG HOW-SCALE *ALTERATION OCCURRENCE

LINE	HOW CODE	HOW DESCRIPTION	SYMBOL NUMBER	VALUE
1				
2	"	CLEAR FIELD		0.00
3	0	Fresh, primary rock	27	0.00
4	1	A, minor > and/or scat. C	28	0.00
5	2	Macroveins and Veins	29	0.00
6	3	Veins, Spots or Patches	30	0.00
7	4	Veins, and/or occas. Enve	31	0.00
8	5	Veins, and/or abundant En	32	0.00
9	6	P or D LESS THAN <, S, an	33	0.00
10	7	P or D EQUAL TO <, S, and	34	0.00
11	8	P or D GREATER THAN <, S	35	0.00
12	9	P or D, V, <, S and E	36	0.00
13	<	Microveins, fracture fill	49	0.00
14	>	Macroveins	48	0.00
15	C	Coatings & encrustations	3	0.00
16	D	Disseminations, scat. cry	4	0.00
17	E	Envelopes	5	0.00
18	H	REPLACED PHENOCRYSTS		0.00
19	K	Stockwork	49	0.00
20	L	LAMINATIONS/BEDDING		0.00
21	P	Pervasive	16	0.00
22	Q	Patches, as in quilts	17	0.00
23	R	ROSETTES & CRYSTAL CLUSTERS		0.00
24	S	Selvages	19	0.00
25	T	STAININGS, AS IN TARNISH		0.00
26	U	EUHEDRAL CRYSTALS		0.00
27	V	Veins	22	0.00
28	X	K and/or \$, M and/or L	24	0.00
29	Z	MASSIVE, LAMINATED/BEDDED		0.00

GEOED Dictionary Table Listing
GEOLOG SIZE-SCALE

LINE	SIZE CODE	SIZE DESCRIPTION	SYMBOL NUMBER	VALUE
1	0	< .004 mm	27	0.00
2	1	.004 to .016 mm	28	0.00
3	2	.016 to .06 mm	29	0.00
4	3	.06 to .25 mm	30	0.00
5	4	.25 to 1 mm	31	0.00
6	5	1 to 4 mm	32	0.00
7	6	4 to 16 mm	33	0.00
8	7	16 to 64 mm	34	0.00
9	8	64 to 256 mm	35	0.00
10	9	256 to 1 m	36	0.00
11	A	< .004 mm	1	0.00
12	B	.004 to .008 mm	2	0.00
13	C	.008 to .016 mm	3	0.00
14	D	.016 to .03 mm	4	0.00
15	E	.032 to .06 mm	5	0.00
16	F	.06 to .12 mm	6	0.00
17	G	.128 to .25 mm	7	0.00
18	H	.25 to .5 mm	8	0.00
19	I	.5 to 1 mm	9	0.00
20	J	1 to 2 mm	10	0.00
21	K	2 to 4 mm	11	0.00
22	L	4 to 8 mm	12	0.00
23	M	8 to 16 mm	13	0.00
24	N	16 to 32 mm	14	0.00
25	O	32 to 64 mm	15	0.00
26	P	64 to 128 mm	16	0.00
27	Q	128 to 256 mm	17	0.00
28	R	256 to .5 m	18	0.00
29	S	.5 to 1 m	19	0.00
30	T	1 to 2 m	20	0.00
31	U	2 to 4 m	21	0.00
32	X	1 to 4 m	24	0.00

GEOLOG G-SCALE

LINE	G-CODE	G-CODE DESCRIPTION	SYMBOL NUMBER	VALUE
1			1	1.00
2	"	clear field		0.00
3	(	.05 to <.2	40	0.10
4	)	.5 to <.2	41	1.00
5	*	.2 to <.5	38	0.30
6	+	2 to < 3	42	2.50
7	-	.02 to <.05	43	0.03
8	.	Trace = <.02	46	0.01
9	/	Present: Estima	58	0.00
10	0	Nil, Absent	27	0.00
11	1	7 to <15	28	10.00
12	2	15 to <25	29	20.00
13	3	25 to <35	30	30.00
14	4	35 to <45	31	40.00
15	5	45 to <55	32	50.00
16	6	55 to <65	33	60.00
17	7	65 to <75	34	70.00
18	8	75 to <85	35	80.00
19	9	85 to 99	36	90.00
20	=	5%		0.00
21	?	Possibly Presen	45	0.00
22	X	Essentially 100	24	00.00

UTAH MINES LTD.,
ISLAND COPPER MINE

DRILLHOLE/TRVERSE : R-018

PROJECT IDEN : ISLAND START DATE : 86/10/7 COMPLETION DATE : 86/10/18 GEOLOGGED BY : GAC + GAC
 COLLAR NORTHING: -1473.00 COLLAR EASTING : 54668.00 COLLAR ELEVATION: 1220.00 SRID AZIMUTH : 0.00
 TOTAL LENGTH : 1000.00 CORE/HOLE SIZE : HING

SURVEY FLAG		SURVEY POINT LOCATION	FORESIGHT	AZIMUTH (DEGREES)	VERTICAL ANGLE (DEGREES)	NORTHING	EASTING
000		0.0		0.00	-90.00		
F - INTERVAL -	CORE	\$	TYPI- GAL TEX- GRAIN FRAC-	STRUCTUR-1 ALTERATION MINS DRE-TYPE MINS			
K L (UNITS = FT)	RECOV-	M	RYING MIN TURES CHARACS TURE	H H H H H ANY R H H ANY			
E A	ERY	I	TH TH MAT TX TX F C \$ M	T ID	STK DIP	A A A A A MIN	A A A MIN
Y 6 FROM - TO	(FT.1)	X	TYPE 1 2 QM1 1 2 F F C P # TK	1	AZM RT	BZ BI CY CB NG XX PY	CP GL YY SUMMARY
K F	ROCK	FOR EN RT	TH QM2 TX TX S R S 0 DIP F	T ID	STK DIP	KF MU CL EP HE RA PR MD SL HA	
E L	QUAL	MEM V Q LC- 3	3 4 0 N H / SML I	2	AZM RT	H H H H H H H H	
Y 6	DESIG	AGE	COL	R D P C	STRUCTUR-2	A A A A A A A A	
P	0.0	480.0	OVER	1 B X	P		
R LTH	0.0	480.0	TILLS- TRICONED HX TO 144, TRIED CORING @ 144 (DRILLERS				
R LTH	0.0	480.0	THOUGHT IT MAY BE BEDROCK) STEPPED DOWN TO HQ RODS AS N CASING				
R LTH	0.0	480.0	TO 480 FEET				
R COR	144.0	480.0	STEP DOWN FROM H-CASING TO H RODS AS N-CASING				
P	480.0	510.0	BVAT VF RF FR 2 M 4 N P 1 VB 20			V3 D4 ZE D+	6 Y 4 4
L			BON LP 4A 3 3 3 0 6 1 SW			D3 64 K3	2 2 1 +
R LTH	480.0	510.0	MED-DK GY LAP TUFF, WK MAG +/- CHL ALT'N. MOD-WK PALE PINK ZEO				
R LTH	480.0	510.0	VNS TO 1.5CM. OCC THN FG LT GY GYPSUM? BANDS ALONG SOME ZEO				
R LTH	480.0	510.0	VNS. 1.5 CM 8X'D VN DR WK SHR C/W 15% C.G. DISS PY @ 15 DEG				
R LTH	480.0	510.0	TO CA. @ 498. CLASTS TO 3" OF ASH TUFF (GRAIN SIZE APT 1-3MM)				
R LTH	480.0	510.0	FROM 498-510.				
P	510.0	523.0	X BVAT 2 J 4 K P 1 VZ 5 <1			V3 D3 ZE 6+	
L			AS 6A			K4	
R LTH	510.0	523.0	lt-med grey fg ash tuff. Wk stockwork of zeo +/- lt gy gypsum				
R LTH	510.0	523.0	vits to 0.5mm thick. 2cm pyrite vn with 10 cm pink zeo env &				
R LTH	510.0	523.0	patches of epidote to 5cm @ 20 deg to c.a. @ 512 ft.				
P	523.0	575.0	BVAT VF RF FR J M 4 N P 1 VZ 30 V1			22 B4 ZE 7+ D+	2 4
L			BON LP 3 4 2 0 6			D2 02 23	1 +
R LTH	523.0	575.0	BONANZA VOLCANICS- FINE GRAINED MED GY-BN/GY LAP TUFF With				
R LTH	523.0	575.0	MIKOR ASH TUFF. 3-5 % VFB DISS & FF PY., POSS CPY. ZEO VNG				
R LTH	523.0	575.0	GEN'LY WK, MOD SW ZEO 547-552 & PERV ZEO/EPI ALT A/W				
R LTH	523.0	575.0	QTZ/CARB/PY SHR @ 550.5				
R	530.0	540.0					
R LTH	530.0	540.0	MOTTLED FG ASH (TO 1MM) TUFF C/W EPI, ZEO STM.				
N	530.0	540.0	X BVAT VF RF FR I J 3 J D 1 VZ 30 V1			22 B4 ZE 7) D0	2 4
L			BON LP MT 3 4 2 0 6			D2 04 23	1)
R TXT	551.0	560.0	VAGUE PORPH'C TXT GIVEN BY ASH TUFF CLASTS- ALT'D WHITE CLASTS				
R TXT	551.0	560.0	RESEMBLE PLAG				
R SAM	557.0	557.0	SAMPLE SLABBED-DEFINITE TUFF TXT, NOT INTRUSIVE.				
R ALT	560.0	570.0	MODERATE PATCHY MAGNETITE				

Island Copper Mine
ISLAND

DRILLHOLE/TRVERSE : R-018 (CONTINUED)

F - I K T E R V A L -		CORE	%	TYPI-	QAL	TEX-	GRAIN	FRAC-	STRUCTUR-1	ALTERATION	MINS	ORE-TYPE	MINS
K L (UNITS = FT)		RECOV-	M	ROCK	FYING	MIN	TURES	CHARACS	TURE	H	H	H	H
E A		ERY	I	TM	TM	MAT	TX	TX	F	C	%	M	A
Y 6 F R O M - T O		(FT.1)	X	TYPE	1	2	QMI	1	2	F	F	C	P
					#	TK							
K F		ROCK	FOR	EN	RT	TM	QMI	TX	TX	S	R	S	O
E L		QUAL	MEM	V	Q	LC-	3	3	4	O	N	H	/
Y 6		DESIG	AGE	COL				R	D	P	C		
R SAM	560.0	570.0	SAMPLED BEFORE LOGGING										
R VEN	566.0	570.0	MINOR GYPSUM ? VNS TO 5MM @ 35 DEG. TO C.A.										
P	575.0	647.5		BVAT	VF	RF		FR	UF	O	J	S	K
L				AS	6A			VV					O
R LTH	575.0	647.5	GENERALLY FINE GRAINED OCC WK BDD ASH TUFF AND CLASTS TO 3MM										
R LTH	575.0	647.5	SUB ANGULAR DUE TO WK ALT'N OF EDGES. LIGHT CLASTS										
R LTH	575.0	647.5	PREDOMINATE										
R ALT	576.0	587.0	ZEO STM ENV ON GYPS/PY VNS, ALSO A/W EPI @ 576										
R ALT	576.0	587.0	ZEO STM ENVELOPE ON GYPSUM /PYRITE VNS, ALSO ASSOC WITH EPIDOTE										
R ALT	576.0	587.0	@ 576 FT.										
N	576.0	587.0		X	BVAT	VF	RF		FR	UF	O	J	S
L				AS	6A			VV					O
R ALT	577.0	580.0	MOD MAG AS DISS PATCHES, AND ALONG B6? PLANES @477 SL BRN BIC										
R ALT	577.0	580.0	STM'S 578-579.										
R ALT	594.0	598.0	WK QZ & OCC QZ/MAG VN TO 3MM. WK BLEACHING, CHL ALT & SL BX'N										
R ALT	594.0	598.0	597 - 599										
R STR	594.0	605.0	WK FLTS @ 15-20 DEG. TO CA @ 594-604										
N	594.0	604.0		X	BVAT	VF	RF		FR	UF	O	J	S
L				AS	6A			VV					O
R VEN	599.0	647.0	GRADUAL INCREASE IN ABUND OF VNS, MOSTLY ZEO, ZEO/GYPS. OCC QZ										
R VEN	599.0	647.0	BECOMING MOD-STR ZEO SW 633-644,										
R VEN	606.0	610.0	ZEO VNS, IRREG, TO 8MM, MOD INTENS										
R VEN	609.0	615.0	WH-LT BY ZEO/CALC/GYP VNS @ 50 DEG. TO CA GIVE BDD APPEARANCE										
N	609.0	615.0		X	BVAT	VF	RF		FR	UF	O	J	S
L				AS	6A			VV					O
R ALT	623.0	633.0	PATCHY MED & DK AND TUFF. MOD MAG ALT IN DK PATCHES										
N	623.0	633.0		X	BVAT	VF	RF		FR	UF	O	J	S
L				AS	6A			VV					O
R VEN	625.0	626.0	STR ZEO VNS/S.W. C/W MINOR BXA										
N	625.0	626.0		X	BVAT	VF	RF		FR	UF	O	J	S
L				AS	6A			VV					O
R VEN	633.0	636.0	NETWORK CALC/GYP +/- ZEO VLT TO 8MM GIVE BXA APPRND										
R VEN	639.0	641.0	ZEO-S.W.-C/W-VLTS TO 5MM. WK/MOD-ZEO-VNS TO 647.5										
P	647.5	703.0		BVAT	VF	RF		BR	FR	1	M	6	O
L				LP	SA					3	3	5	C
R LTH	647.5	703.0	BXA'D ANDESITE. WK CHL ALT IS PERV. PROB LAP. TUFF BXA'D BY										
R LTH	647.5	703.0	FAULTING BUT RE-HEALED. BXA FRAGS (INCLUDE ZEO VN'D CLASTS TO										
R	647.5	703.0											
R	647.5	703.0											
R LTH	647.5	703.0	3 CM (SAMPLED @ 679). V MINOR EPI PATCHES										
R	650.0	703.0											
R	677.0	703.0	MOD EPI & COARSE (1MM) MAG DISS. PY & POSS CPY DISS 694-698										

Island Copper Mine
ISLAND

DRILLHOLE/TRVERSE : R-018 (CONTINUED)

SUMMARY REMARKS

PY VNS 740-760. PATCHY MOD EPI/CHL +/-PY ALT 815-850.
871-903

ANDESITE ZEOLITE STOCKWORK AND PROBABLE HEALED FAULT ZONE
SIMILAR TO 647-703.S. 2-3% PY AND PATCHY EPI
903-992

BONANZA ANDESITES MED GN/RY GOING FROM LAPILLI TUFF 903-944
INTO ASH TUFFS TO 984 THEN UNDIFFERENTIATED ANDESITE TO 992.
ZEO VEINING IS MODERATE. MAG IS MOD. PERVASIVE BIOTITE MAY BE
PRESENT IN SHORT 10-20 CM SECTIONS. ZEO VNG INCR TO WK S.W.
FROM 984-992

992-1000

SLIGHTLY DIFFERENT ANDES LAP TUFF C/W LT.MED BY MATRIX & DARKER
SUBROUNDED CLASTS TO 4 CM. MAG COMMON AS XTALS TO 1MM A/W CHL
+/- PY ALT'N

480-1000

NO ECONOMIC SULPHIDES ARE APPARENT.

DIAMOND DRILL HOLE ASSAYS

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9:54 FRIDAY, FEBRUARY 20, 1987

HOLE=R-018

FROM	TO	CU PCT	MO PCT	FE PCT	AU PPM	AG PPM	PB PCT	ZN PCT	TAC
480.0	490.0	0.05	0.006	7.2	-0.010	0.050	0.001	0.006	3655
500.0	510.0	.	.	.	0.050	0.150	0.002	0.003	2451
520.0	530.0	0.04	0.006	7.0	-0.010	0.080	0.001	0.005	3689
540.0	550.0	0.00	.	.	0.030	0.100	0.002	0.003	2452
560.0	570.0	0.05	0.007	6.6	-0.010	0.120	0.001	0.005	3690
600.0	610.0	0.05	0.007	6.2	0.010	0.100	0.001	0.005	3691
640.0	650.0	0.05	0.006	6.8	0.010	0.080	0.001	0.005	3692
680.0	695.0	0.04	0.006	6.2	-0.010	0.100	0.001	0.004	3693
720.0	730.0	0.04	0.007	6.8	-0.010	0.110	0.001	0.011	3694
760.0	770.0	0.05	0.007	6.5	-0.010	0.140	0.001	0.006	3695
800.0	810.0	0.04	0.006	6.9	-0.010	0.100	0.001	0.005	3696
840.0	850.0	0.04	0.006	6.2	0.010	0.110	0.001	0.006	3697
880.0	890.0	0.04	0.006	5.9	-0.010	0.070	0.001	0.004	3698
920.0	930.0	0.04	0.007	5.8	-0.010	0.120	0.001	0.004	3699
960.0	970.0	0.04	0.006	7.0	0.010	0.140	0.001	0.004	3700

MAGNETIC SUSCEPTIBILITY

HOLE: R-18

INTERVAL START	+ 2'	+ 4'	+ 6'	+ 8'	INTERVAL AVERAGE
480) 4.1	1.7	4.1	4.3	2.8	3.4 (LGS UNITS)
490) 3.8	3.2	2.9	2.8	3.1	3.16
500) 4.0	3.4	5.8	5.1	2.5	4.16
510) 1.0	1.2	3.2	3.2	1.7	2.06
520) 4.8	4.9	3.6	4.5	1.3	3.82
530) 1.5	3.1	3.2	4.9	2.3	3
540) 2.0	2.9	3.1	3.6	1.8	2.68
550) .35	1.6	2.9	4.0	2.2	2.21
560) 4.2	3.4	6.2	2.8	2.6	3.7
570) 2.4	3.3	2.7	3.3	3.1	2.96
580) 1.4	.99	1.3	2.3	4.1	2.018
590) 4.8	4.6	3.1	1.9	3.6	3.6
600) 4.8	4.5	3.4	4.1	3.7	4.1
610) 4.6	4.3	3.4	3.9	3.8	3.28
620) 3.8	4.0	4.0	5.9	5.2	4.58
630) 4.4	4.3	5.3	5.3	4.0	4.66
640) 4.3	4.0	4.1	4.3	4.6	4.26
650) 2.3	3.4	3.7	4.8	3.4	3.52
660) 5.2	5.3	4.0	3.2	5.0	4.54
670) 3.2 3.8	5.0 3.2	4.3 4.1	4.0	3.9	3.8
680) 5.7	5.0	5.2			5.3
690)		5.4	2.8	3.4	3.8
700) 3.4	3.8	3.4	4.3	5.2	4.02
710) 3.3	1.3	3.1	4.8	5.0	3.5
720) 3.1	3.8	4.4	4.4	5.2	4.18
730) 3.8	4.2	5.2	4.2	3.8	4.24
740) 3.7	4.7	4.9	1.8	2.1	3.44
750) 1.9	4.2	2.6	3.6	1.8	2.82
760) 3.9	.67	1.7	1.3	1.3	1.774
770) 3.5	4.1	3.6	5.0	1.9	3.62
780) 3.4	4.3	3.1	2.7	2.3	3.16
790) 3.7	2.0	3.6	3.4	2.9	3.12
800) 2.1	3.4	4.8	1.3	6.7	3.66
810) 3.4	5.5	4.9	3.3	3.5	4.12
820) 5.2	3.0	.57	3.9	3.9	3.3
830) 5.1	4.9	3.3	2.0	2.8	3.62
840) 1.9	3.9	2.1	.94	1.7	2.1

Island Copper Mine
ISLAND

DRILLHOLE/TRAVERSE : E-067 (CONTINUED)

F - I N T E R V A L -		CORE	%	TYPI-	QAL	TEX-	GRAIN	FRAC-	STRUCTUR-1	ALTERATION	MINS	ORE-TYPE	MINS																											
K L (UNITS = FT)														RECOV-	M	ROCK	FYING	MIN	TURES	CHARACS	TURE	H	H	H	R	H	ANY	H	H	ANY										
E	A	ERY	I	TM	TM	MAT	TK	TX	F	C	%	M	T	ID	STK	DIP	A	A	A	A	A	MIN	A	A	MIN															
Y	G	F	R	O	M	-	T	O	(FT.1)	X	TYPE	1	2	RM1	1	2	F	F	C	P	%	TK	1	AZM	RT	QZ	BI	CY	CB	MG	IX	PY	CP	GL	YY	SUMMARY				
K	F	ROCK	FOR	EN	RT	TM	Q2	TX	TX	S	R	S	O	DIP	F	T	ID	STK	DIP	KF	MU	CL	EP	HE	HA	PR	MO	SL	HA											
E	L	QUAL	MEM	V	Q	LC-	3	3	4	O	N	H	/	SML	1	2	AZM	RT																						
Y	G	DESIG	AGE	COL										R	D	P	C			STRUCTUR-2																				
R	LTH	1300.0	1350.0	VMS CUT AND ENGLF THE DK GRN MAG-HEN-CHL ALT'D RK AND ARE CUT IN PLACES BY QTZ-PYR VNS. QTZ-MAGN VNS ARE CRACKLED AND LOCALLY DISPLACED. SLICK SHEAR PLANES PRES THRO SECTION - BEN CHLORITE ON SHR PLANES.																																				
R	LTH	1300.0	1350.0	CHL (?) - MAG-HEN ALT'D TUFF(?).																																				
R	LTH	1300.0	1350.0	TAN ALT'M MIN OCCURS AS ALT'M OF FELD AND AS FRACT FILLINGS + POSS BOLDMITE.																																				
R	SAM	1307.0	1307.3	CONTACT-DIX IN QFP HTZ.																																				
R	ALT	1314.0	1315.5																																					
R	ALT	1314.0	1315.5																																					
R	SAM	1314.0	1314.2																																					
N		1314.0	1315.5																																					
L																																								
R	LTH	1315.0	1316.5	THE PPGF CONTAINS FRAGS OF MAG-CHL ALT'D WALL RK WITH QTZ VNS IN FRAGS (IE: PPGF LATER THAN ONE PHASE OF QTZ VNS) AND IS CUT BY SHEETED QTZ-MAGN VNS.																																				
R	LTH	1315.0	1316.5	THE PPGF APPEARS TO HAVE BEEN INTRUDED IN PERIOD OF VEINING.																																				
R	LTH	1315.0	1316.5																																					
R	LTH	1315.0	1316.5																																					
K		1318.0	1320.0																																					
L																																								
P		1350.0	1370.0																																					
L																																								
R	LTH	1350.0	1370.0	A GREY-BROWN, BRITTLE (EASILY BKN ALONG FRACTS), MASSIVE, FINE-MED ASH TUFF(?) WITH PERV CHL ALT'M & CHL ON FRACT PLANES AND MOD-STRS PATCHY BRN ALT'M THRO MATRIX OF RK(BID?).																																				
R	LTH	1350.0	1370.0	SCATT QTZ-MAGN VNS TO 2-4CM @ 40-60 DEG C/A, MOD CALC VNLTS 1-2MM THK, SOME PYR-EPI VNLTS 1-2MM THK, SCATT CAL(?) VNS AND POSS SOME AMPHIB DEVELOPMENT. MAY BE PYROXENES. PYR RUNS 1-3% WITH CPY AT THE .2% LEVEL AS VNLTS & SPOTS.																																				
R	LTH	1350.0	1370.0	MINOR RED HEN STAIN. MAGN BOTH PERV AND IN PATCHES AND ALONG AND IN QTZ VNS.																																				
R	LTH	1350.0	1370.0	SOME DF RB COL PROB ZEOL.																																				
R	LTH	1350.0	1370.0	BRN PERV ALT'M IN TUFF (BID?), PYROXENES IN GRN PATCHES(?)																																				
R	SAM	1365.0	1365.2																																					
P		1370.0	1392.0																																					
L																																								
R	LTH	1370.0	1392.0	PROB ASH TUFF(CLAST SIZE <1MM) WITH INCR'D MAG VNS AND SPOTS FROM ADV, AND I-CUT BY QTZ, QTZ-MAG, QTZ-CARD, QTZ-PYR VNLTS																																				
R	LTH	1370.0	1392.0	VUGGY CALCITE VNS, SOME EPI VNLTS AND MOD VNLTS AND SPOTS OF BRT BRN-RED HEN.																																				
R	LTH	1370.0	1392.0	FROM 1374-1380, RK IS LT GRAY, SILIC TUFF WITH DK CHL ENV TO ICH PER SIDE ON PYR-HEN AND QTZ VNS. PYR RUNS 1-2% WITH VNS = DISSEM. THE GRY UNIT HAS TIGHT PACKED EVEN GRN'D (1/4MM) THIN SHARDS/PYROCLASTS.																																				
R	LTH	1370.0	1392.0	ORANGE ZED OCCURS 1390-1392 AND MAY CAUSE SOME OF ORANGE COLOUR ELSE WHERE.																																				
R	LTH	1370.0	1392.0	MAG ALT'D TUFF(?)																																				
R	LTH	1370.0	1392.0																																					
R	LTH	1370.0	1392.0																																					
R	LTH	1370.0	1392.0																																					
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R	LTH	1370.0	1392.0																																					
R	LTH	1370.0	1392.0																																					

[s]land Copper Mine
ISLAND

DRILLHOLE/TRVERSE : E-067 (CONTINUED)

F - INTERVAL -			CORE	%	TYPI-	QAL	TEX-	GRAIN	FRAC-	STRUCTUR-1	ALTERATION	MINS	DRE-TYPE	MINS															
K L	(UNITS = FT)	RECOV-													M	ROCK	FYING	MIN	TURES	CHARACS	TURE	H	H	H	H	AMY	H	H	ANY
E A		ERY	1	TM	TM	NAT	TX	TX	F C	%	M	T	ID	STK	DIP	A	A	A	A	A	MIN	A	A	A	MIN				
Y G	FROM - TO	(FT.1)	X	TYPE	1	2	DM1	1	2	F F	C P	#	TK	1	AZM	RT	QZ	B1	CY	CB	MG	XX	PY	CP	GL	YY	SUMMARY		
K F		ROCK	FOR	EN	RT	TM	QNZ	TX	TX	S	R	S	O	DIP	F	T	ID	STK	DIP	KF	MG	CL	EP	HE	HA	PR	MO	SL	HR
E L		QUAL	MEM	V	Q	LC-	J	3	4	O	N	H	/	SML	I	2	AZM	RT			H	H	H	H	H	H	H	H	H
Y G		DESIG	AGE	COL						R	D	P	C			STRUCTUR-2				A	A	A	A	A	A	A	A	A	
R LTH	2176.0	2210.0	A GREY, CHL-EPI-SER ALT'D FELD-HBL PORPHYRY WITH ABT 10% WT SUBHEDRAL FELD >2-3MM AND 15-20% FELD >5MM IN FW GRN (<1/4MM) MIX OF MAFICS & FELD. PYR RUNS 2-3% WITH DISS = VNLTs. THE MIX IS REDDISH-GRY AT TOP BUT IS BLEACHED WT FROM 2200-2210 (SIMILAR TO BLEACHING OF PPHB ABV SKARN 2127-2138.5 FT.																										
P	2210.0	2228.7	SKAR	GA	PX	CA	BD	PB	I	B	N	P	BD	50	P2	72	L2	61	/	/	GA	P	X	K	7				
L			PB	YG		WV						3	BD	45		/	74	C1				L+	L7	L	9	1			
R LTH	2210.0	2228.7	BEDDED YELLOW-GRN MED-C.G GARN-PYROX & EPIDOTE SKARN WITH 10-20% THIN BDD, FINE GRAINED, CHERTY ORANGE-WT-GRN QTZ-EPI-PYROX ALT'D RK (=PORCELLANITE). THE YELLOW GARNETS PREDOMINATE (>75% OF GARN) OVER RED GARNETS. GARNETS COARSE GRN'D (TO 2CM). GARNETIZED BEDS RANGE FROM 2-15CM THK. PYROX ARE PRDN AT UPPER CONTACT WHILE GARN PREDOM BELOW 2214. MAGN ALT'N IS NIL TO 2218 AND MOD TO END WITH STRG BANDED SECT 12CM THK @ 2223.																										
R LTH	2210.0	2228.7	ORANGE MIN WITH PYR PROB ZED.																										
R LTH	2210.0	2228.7	ORANGE MIN IN BEDS(?). PYR IS ABT 5-10% WITH BANDS, VNS>DISSEN.																										
R LTH	2210.0	2228.7	SOME PYR PARALLEL TO BDD, SOME PYR VNS CUT GARNET SKARN AND EPI																										
R LTH	2210.0	2228.7	VNS. SPOTS OF RESINOUS, SPHAL NOTED IN BLK SPHAL BANDS																										
R LTH	2210.0	2228.7	PARALLEL TO BDD. CALC OCC INTERSTITIAL TO SKARN & SULPHIDE																										
R LTH	2210.0	2228.7	MINERALS. SKARN EXTENDS ABV TO ABT 2200 AS BLEACHING AND SOME																										
R LTH	2210.0	2228.7	PYROX.																										
R SAM	2210.0	2210.1	GRN PYROX IN ORANGE STAINED SKARN.																										
P	2228.7	2273.5	PPHB	MX		PP						P	1	VB	45		V2	LA	7=						1	2			
L																	P2	62	V2							1	=		
R LTH	2228.7	2273.5	HBL PORPHYRY WITH 15-20% HBL PHENOS >2MM DIA - SIMILAR TO ABV																										
R LTH	2228.7	2273.5	UNITS. PYR 2-3% WITH VNS = DISS. PYR-EPI VNS COMMON PLUS																										
R LTH	2228.7	2273.5	CALC, ZED VNLTs +/- 6ILS +/- SPHAL. FROM 2264 TO THE CONTACT																										
R LTH	2228.7	2273.5	THE RK IS BLEACHED AND STRG EPI ALT'D.																										
P	2273.5	2296.5	SKAR	GA	CA+	PB	BD	I	9	N	P	BD	60		V2		81	+	GA							K	B		
L			QL	RY							3	BD	70		B4											/	L8	2	1
R LTH	2273.5	2296.5	A MED TO COARSE GRAINED RED-YELLOW ANDRADITE GARNET SKARN, WITH																										
R LTH	2273.5	2296.5	SOFT BLK MIN (CHL?) DISS THRU SK AND SCATT PATCHES OF EPI RETRO																										
R LTH	2273.5	2296.5	AFTER GARNET. YELLOW GARNETS AFTER RED GAR (IE: NOTED IN VNS																										
R LTH	2273.5	2296.5	CUTTING RED GARN). SOME HEM ALT'N NOTED. EPI ALT'N STRONGER																										
R LTH	2273.5	2296.5	TOWARD BTH CONTACT. PYR OCC AS SUBHEDRA (<1-2MM DIA TO +10% BUT																										
R LTH	2273.5	2296.5	GEN ABT 5% DISS VNLTs. DK SOFT MIN (CHL?) OCCURS WITH PYRITE.																										
R LTH	2273.5	2296.5	CALCITE OCC AS VNLTs AND DISS (AFTER GARN).																										
R LTH	2273.5	2296.5	THE CONTACT WITH LST IS RAZOR SHARP AT 45 DEG C/A WITH YELLOW																										
R LTH	2273.5	2296.5	GARNETS 1.3CM LONG PARALLEL TO THE CONTACT. UPPER CONT HAS																										
R LTH	2273.5	2296.5	2-3FT OF THIN BDD SILIC RK - PROB PARSON BAY.																										

Island Copper Mine
ISLAND

DRILLHOLE/TRVERSE : E-067 (CONTINUED)

F - I N T E R V A L -		CORE RECOVERY (FT.1)	% ROCK TYPE	TYPI- FYNING	DAL MIN	TEX- TURES	BRAIN CHARACS	FRAC- TURE	STRUCTUR-1 ALTERATION MINS										ORE-TYPE MINS	SUMMARY											
K L (UNITS = FT)									T ID	STK	DIP	A	A	A	A	A	A	A			A	A	A	A	A	A	A				
E A	Y 6	F R O M	T O	1	A Z M	R T	Q Z	B I											C Y	C B								M G	X X	P Y	C P	G L	Y Y
Y 6	F R O M	T O	ROCK QUAL	DESIG	AGE	COL	FOR EN	RT	TM	Q M 2	TX	TX	S R	S O	DIP	F	T ID	STK	DIP	K F	M U	C L	E P	H E	H A	P R	M O	S L	H A		
Y 6	F R O M	T O	QUAL	DESIG	AGE	COL	FOR EN	RT	TM	Q M 2	TX	TX	S R	S O	DIP	F	T ID	STK	DIP	K F	M U	C L	E P	H E	H A	P R	M O	S L	H A		
Y 6	F R O M	T O	DESIG	AGE	COL																										
R LTH	2273.5	2296.5	THE RK IS ONLY WKLY CALCAREOUS IN MTX.																												
R SAM	2290.0	2290.5	RED AND YELLOW GARNETS PLUS DK (CHL?) MIN.																												
N	2290.0	2296.5	I SKAR	BA	CA*	PB	BD	I 9	K	D	BD	75	V2	B1	*	GA	K 8														
L			QL	RY								3	CX	45	B4															2 1	
P	2296.5	2427.0	MARB	CA	MI			I 9	K	P																					
L			QL	AM						C	1				V1															1 *	
R CON	2296.5	2296.5	SHARP CONTACT BTM SKARN AND LST AT 45 DEG C/A - THIS IS PROB																												
R CON	2296.5	2296.5	PARSON BAY - QUATZINGO CONTACT.																												
R LTH	2296.5	2335.0	MOTTLED GRAY AND WHITE MED GRAINED MARBLE (X'AL LST) CUT BY																												
R LTH	2296.5	2335.0	SCATT EPI-PYR VNLTG DR BANDS WITH EPI-PYR ALT'M. SOME GARNET																												
R LTH	2296.5	2335.0	(YELLOW) DEVELOPED IN NARROW (2CM BANDS AND SEVERAL SKARN																												
R LTH	2296.5	2335.0	LAYERS - EG: 2326-2327 FT WITH TAN-YELLOW GARNETS PARTIALLY																												
R LTH	2296.5	2335.0	DEVELOPED.																												
N	2326.0	2327.0	I SKAR	CA6																											
L			QL	GY											P4																
R LTH	2335.0	2395.0	THIN BDD GRAY-WT BANDED MED GRAINED MARBLE WITH ABT 10% LENSES																												
R LTH	2335.0	2395.0	AND BANDS (1CM TO 4CM THK OF BLK, CHERT NODULES.																												
R LTH	2335.0	2395.0	BDD IS 60 DEG @ 2340, 90 DEG @ 2335, 50 DEG @ 2346, 60 DEG @																												
R LTH	2335.0	2395.0	2356 AT 80-90 FROM 2374-2395.																												
R LTH	2335.0	2395.0	THE LT LAYERS ARE COARSER GRAINED THAN DARKER MORE ARGILLACEOUS																												
R LTH	2335.0	2395.0	LAYERS. DARK & LT LAYERS ABT EQUAL IN AMOUNT.																												
N	2335.0	2350.0	I MARB	CA	BD			I 9	K	D	BD																				
L			QL	AM						C	1	BD			V1															1 *	
N	2343.0	2344.5	I SKAR																												
L			QL	RY																											
R LTH	2345.5	2346.0	A THIN 1.5FT LAYER SILIC-CHL-EPI ALT'D ANDES TUFF(?) LYING BTM																												
R LTH	2345.5	2346.0	THE MARBLE (BELOW), AND THE SKARN ADV TUFF ACTED AS CONDUIT FOR																												
R LTH	2345.5	2346.0	HYDROTHERMAL SOLUTIONS. SOME REMN HBL PHENOS SUGGEST THIS																												
R LTH	2345.5	2346.0	COULD BE BLEACHED HBL PORPHYRY. LITTLE ALT'M ON BNTM CONTACT.																												
N	2345.5	2346.0	I DATF	FR																											
L			BA																												
N	2367.0	2405.0	I MARB	CA	BD			I 9	K	D	2	BD	60																		
L			QL	BA						C	1	2	BD	90	V1																1 *
P	2427.0	2464.0	SKAR	GA	PB	BD		I 8	N	P	BD	55	V1	V3	66	L2	B+	GA	K 1												
L			QL	BY	VV						3	BD	60	B3	62															2 2	
R LTH	2427.0	2464.0	A BANDED, YELLOW-GREEN AND REDDISH GARNET (ANDRADITE) SKARN																												
R LTH	2427.0	2464.0	WITH INTENSE PYRITE AND MOD TO LOC HIGH MAGN MINERALIZATION.																												
R LTH	2427.0	2464.0	HEMATITE (AFTER MAG?), IS COMMON WHILE CPY OCCURS IN MOD AMTS																												
R LTH	2427.0	2464.0	(TO 1%) WITHIN THE SK. SPHAL IS PROB PRES BUT MASKED BY DK																												
R LTH	2427.0	2464.0	MAGN AND SOFT DK MIN (CHL?), SEEN IN UPPER SKARN SECTIONS.																												
R LTH	2427.0	2464.0	PYRITE COMPOSES +20% OF ROCK MASS AND LOCALLY >80% - IE:																												
R LTH	2427.0	2464.0	MASSIVE SULPHIDES.																												

Island Copper Mine
ISLAND

DRILLHOLE/TRAVERSE : E-067 (CONTINUED)

F - I N T E R V A L -			CORE	%	TYPI-	GAL	TEX-	GRAIN	FRAC-	STRUCTUR-1 ALTERATION MINS ORE-TYPE MINS																										
K L (UNITS = FT)										RECOV-	M	ROCK	FYING	MIN	TURES	CHARACS	TURE	H	H	H	H	H	ANY	H	H	ANY										
E A			ERY	I	TX	TX	MAT	TX	TX	F	C	%	M	T	ID	STK	DIP	A	A	A	A	A	A	MIN	A	A	A	MIN								
Y B F R O M - T O			(FT.)	X	TYPE	1	2	Q	M1	1	2	F	F	C	P	%	T	K	AZM	RT	QZ	BI	BY	CB	MG	XX	PY	CP	BL	YY	SUMMARY					
K F			ROCK	FOR	EN	RT	TH	Q	M2	TX	TX	S	R	S	O	DIP	F	T	ID	STK	DIP	KF	MU	CL	EP	HE	HA	PR	MO	SL	HA					
E L			QUAL	MEM	V	Q	LC-	3	3	4	O	N	H	/	S	ML	1	2	AZM	RT	H	H	H	H	H	H	H	H	H	H	H					
Y B			DESIG	AGE	COL	R	D	P	C	STRUCTUR-2	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A						
R LTH	2427.0	2464.0	SOME BDB/LAYERING PRESENT WITH SULPHIDES & OXIDES GENERALLY																																	
R LTH	2427.0	2464.0	DEFINING THE BDB ALONG WITH GARNET LAYERS. THE CORE IS																																	
R LTH	2427.0	2464.0	NON-LIMEY BUT THERE ARE A FEW THIN (1-3MM) CALC VNLTs CUTTING																																	
R LTH	2427.0	2464.0	LAYERS. SOME SP MIXED WITH MAGN @ 2440 FT, THERE IS TEXTURAL &																																	
R LTH	2427.0	2464.0	ALT'N VARIATIONS WITHIN UNIT AS FOLLOWS: 2427-2432' MAINLY																																	
R LTH	2427.0	2464.0	COARSE YELLOW GARNETS TO <5CM IN COARSE BDB MIX INTERLAYERED																																	
R LTH	2427.0	2464.0	WITH FINELY, LAMINATED PYRITE, CPY-MAGN ALT'D SEDS. NOTE:																																	
R LTH	2427.0	2464.0	DISTORTION OF BDB AT 2431-2432'. FROM 2432-2442', MASSIVE PYR																																	
R LTH	2427.0	2464.0	BANDS WITH CPY AND BLK MAGN-CHL(?) - SPHAL(?) ALTERNATE WITH																																	
R LTH	2427.0	2464.0	YELLOW GARNET LAYERS. THE SULPHIDES AND OXIDES COMPOSE >50% OF																																	
R LTH	2427.0	2464.0	RK. FROM 2442-2451', YELLOW-GRN GARNET PREDOMINATES WITH																																	
R LTH	2427.0	2464.0	REDDISH HUE DUE TO HEM.																																	
R LTH	2427.0	2464.0	PYR-MAG-CPY-SP(?) OCCUR MAINLY AS DISSEM IN THE MORE MASSIVE																																	
R LTH	2427.0	2464.0	HOMOGENEOUS SKARN WITH FAIRLY EVEN TEXTURE OF GARNETS 1-2MM																																	
R LTH	2427.0	2464.0	DIA.																																	
R LTH	2427.0	2464.0	FROM 2451-2456', THE SKARN IS IRREG ALT'D WITH PATCHES OF BLK																																	
R LTH	2427.0	2464.0	MAGN AND CHL(?), SHEARED WITH VNLTs CALC & PYR CUTTING SKARN.																																	
R LTH	2427.0	2464.0	FROM 2456-2460', THE RK IS A COARSE-MED GRAINED RED GARNET																																	
R LTH	2427.0	2464.0	SKARN WITH >75% OF RK ALT'D TO RED GARNET. SULPHIDES & OXIDES																																	
R LTH	2427.0	2464.0	MAINLY CONFINED TO FRACTS WITH SOME COARSE (2-3CM) VNS PYR WITH																																	
R LTH	2427.0	2464.0	CPY. FROM 2460-2464', INT PYR-EPI ALT'N HAS REPLACED >60% OF																																	
R LTH	2427.0	2464.0	GARNET SKARN. REMN GARNETS ARE LARGE (1-3CM) RED VARIETY.																																	
N	2442.0	2451.0	I	SKAR	GA	PB	BN	I	B	N	D	BD	55	V1	V1	67	L1	L1	GA	K	B															
L			BL		RY	VV					3	BD	60		83	85			81	X8	2	+														
N	2451.0	2456.0	I	SKAR	GA	PB	MX	I	B	N	D	BD	55	V1	V1	66	L=	L1	GA	K	B															
L			QL		NG	VV					3	BD	60		85	81			81	X6	2	=														
N	2456.0	2460.0	I	SKAR	GA	PB	MX	I	B	N	D	BD	55	V1	V1	66	L2	L+	GA	K	B															
L			QL		YR	VV					3	BD	60		81	62			8*	X8	2	=														
N	2460.0	2464.0	I	SKAR	GA	PB	BD	I	B	N	D	BD	55	V1	V1	66	L2	L1	GA	K	B															
L			QL		GY	VV					3	BD	60		81	86	62			8*	X6	2	=													
P	2464.0	2569.0	KMA										P	2	V2	0	V1	74	LA	71	1	4														
L			KM										46	2	4	VN	90	85	84	V4																
R LTH	2464.0	2479.0	MED GRN-GRY, MED GRAINED CHL-EPI-PYR-MAG ALT'D ANDES-BASALTIC																																	
R LTH	2464.0	2479.0	VOLCANIC RK (KARUTSEM FM). RK LOCALLY HAS REDDISH HUE IN MIX,																																	
R LTH	2464.0	2479.0	SOME LT BLEACHED SECTIONS AND STR EPI-PYR ALT'D SECTIONS. WT																																	
R LTH	2464.0	2479.0	ZEO VNLTs GEN <2MM THK COMMON AT 0 DEG C/A AND 45 DEG C/A CALC																																	
R LTH	2464.0	2479.0	VNS LESS FROM PYR RUNS 5-10% TO APT 2600' AND 3-5% BELOW.																																	
R LTH	2464.0	2479.0	RK IS CUT BY DYKES OF GRY-WT QTZ-FELD PORPHYRY FROM 2479-2492																																	
R LTH	2464.0	2479.0	AND 2500-2508.																																	
R LTH	2464.0	2479.0	PROP IS FELD RICH WITH RDD QTZ PHENOS. CHL ALT'D MAFIC COMP																																	
R LTH	2464.0	2479.0	10-15%. PYR MAINLY DISS WITH CHL ALT'D MAFICS. SOME REM BIO																																	
R LTH	2464.0	2479.0	PHENOS.																																	
R LTH	2464.0	2479.0	RK IS HARD-FRESH, SCATT QTZ-MOLY VNS 1CM TO 5CM THK. LOCALLY																																	

Island Copper Mine
ISLAND

DRILLHOLE/TRVERSE : E-067 (CONTINUED)

F - I N T E R V A L -		CORE	%	TYPI-	QAL	TEX-	BRAIN	FRAC-	STRUCTUR-1	ALTERATION	MINS	ORE-TYPE	MINS
K L (UNITS = FT)		RECOV-	M	ROCK	FYING	MIN	TURES	CHARACS	TURE	H	H	H	H
E A		ERY	I	TM	TN	NAT	Tx	Tx	F	C	S	M	T
Y 6 F R O M - T O		(FT.1)	X	TYPE	1	2	QM1	1	2	F	F	C	P
K F		ROCK	FOR	EN	RT	TM	QM2	Tx	Tx	S	R	S	O
E L		QUAL	MEM	V	Q	LC-	3	3	4	O	M	H	/
Y 6		DESIB	AGE	COL				R	D	P	C		
R LTH	2464.0	2479.0	SOME BIX'N OF RK. NARROW (<1FT) DYKE OFF FROM 2565-2569.										
R ALT	2464.0	2479.0	A STRG BROWN ALT'N (BID) SIMILAR TO THAT ENCOUNTERED AT TOP OF										
R ALT	2464.0	2479.0	HOLE OCCURS FROM 2508. THE BRN ALT'D RK IS MK-MOD MAGN ALT'D.										
R ALT	2464.0	2479.0	ALT'N CAUSED BY PROXIMITY CHL OFF. THE ALT'N HAS GREASY LOOK										
R ALT	2464.0	2479.0	TO IT.										
R ALT	2464.0	2479.0	IN THE BK BRN ALT'D VOLC.										
M	2479.0	2494.0	X	PPQF	QX	FX	PP	J & L	M	5	VH	B+	0
L				AM				C				P2	
M	2500.0	2508.0	X	PPQF	QX	FX	PP	J & L	M	5	VH	B+	0
L				AM				C				P2	
M	2508.0	2569.0	X	KNBA					D	2	VZ	0	V1
L			KN	GU					2	4	VH	90	B5
R MNZ	2512.0	2512.2	A QTZ-ZEO-CALC-CP-PY VK 1.5CM THK AT 70 DEG C/A AT 2512 FT.										
R VEN	2551.0	2551.5	A QTZ-MOLY-CARB VN SET AT ABT 90 DEG C/A AND 5-6CM THK.										
P	2569.0	2813.0		PPQF	QX	FX	PP	VV	J & M	P	3	VH	V2
L				SA	MX	<<			C	1	2	VZ	P2
R LTH	2569.0	2813.0	GREY AND REDDISH-ORANGE CHL-SERIC ALT'D COARSE GRAINED QTZ-FELD										
R LTH	2569.0	2813.0	PORPHYRY. REDDISH-ORANGE VARIETY OCCURS IN THICK SECTIONS FROM										
R LTH	2569.0	2813.0	2601-2665, 2680-2765 AND 2780-2813 AND THIS IS THE PREDOMINANT										
R LTH	2569.0	2813.0	VARIETY. THE COLOURATION IS DUE BOTH TO ORANGE ZEO STAIN OF										
R LTH	2569.0	2813.0	FELD AND MATRIX AND ALSO THE SALMON PINK COLOUR BELIEVED DUE TO										
R LTH	2569.0	2813.0	CALCITE STAINING. SOME OF ORANGE COL MAY BE K-SPAR. QTZ PHENOS										
R LTH	2569.0	2813.0	TYPICALLY COARSE (TO 15MM) AND WELL ROUNDED AND COMP 15-30% OF										
R LTH	2569.0	2813.0	RK. FELD ARE GEN EUBEDRAL-SUBBEDRAL TO 5MM ON AVG, AND LT GRN										
R LTH	2569.0	2813.0	SERIC ALT'D DR ORANGE ZEO STAINED. MAFICS GEN <5% WITH CHL										
R LTH	2569.0	2813.0	ALT'D BID DR HBL PHENOS PREDOM.										
R LTH	2569.0	2813.0	PYR RIMS 1-3% WITH DISS > VNLTs. QTZ-MOLY VNS COMM-GEN <2CM										
R LTH	2569.0	2813.0	THK. CALC-ZEO VNS PROM IN ORANGE SECTIONS.										
R LTH	2569.0	2813.0	BLK PYROBITUMEN OCCURS WITH CALC IN FRACT'G, BIX'D SECTIONS.										
R LTH	2569.0	2813.0	THIS PORPHYRY BODY IS CLEARLY CLOSELY RELATED TO THE										
R LTH	2569.0	2813.0	MINERALIZING INTRUSIONS OF THE ISLAND COPPER DEPOSIT.										
R ALT	2592.0	2601.0	SERIC ALT'N STRG ASSOC WITH FRACT'G AT CONT BTM MT (ABOVE) AND										
R ALT	2592.0	2601.0	ORANGE (BELOW) OFF. SILS ASS WITH CALC HEALING FRACTS.										
R LTH	2601.0	2665.0	INT ORANGE STAIN'D MTX. COARSE PHENOS - SOME BID BOOKS ONLY										
R LTH	2601.0	2665.0	MKLY CHL ALT'D - FRESH OFF. PYR GEN <1%. MT QTZ VNS <1CM THK										
R LTH	2601.0	2665.0	CUT OFF AT 80-90 DEG C/A. QTZ-MOLY VNS @ 40-50 DEG C/A.										
R LTH	2601.0	2665.0	INCR IN ZEO VNS FROM 2631. SOME GRN ALT'N ENV ON PYR-CALC										
R LTH	2601.0	2665.0	VNLTs.										
M	2601.0	2665.0	X	PPQF	QX	FX	PP	VV	J & M	D	2	VZ	80
L				RO	BI	<<			C	1	2	VH	45
R LTH	2665.0	2680.0	MK DR STAIN INCREASE NO QTZ-MOLY VNS AND TO 3-4CM THK.										
R LTH	2665.0	2680.0	A @ IN THK XEND OF BRN ALT'D BASALT OCCURS AT 2675 FT.										
R LTH	2680.0	2765.0	VARYING MK TO STRGLY ZEO VN'D AND STAINED PINKISH INTX) OFF.										

Island Copper Mine
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DRILLHOLE/TRVERSE : E-067 (CONTINUED)

S U M M A R Y R E M A R K S

776 - 845

BVAT - QTZ-SERIC-PYR ALT'D TUFF W/O PYROP ALT'N. BDB AT 812 - 835 AT 60 DEG C/A. INCR SHRS.

845 - 933

BVAT - LT GRN, QTZ-MAGN AND CHL-SERIC ALT'D TUFF. MAGN OCC AS ENV DN QTZ VNS. MULT SHRS AT 20 - 40 DEG C/A. PINK ZED (LAUM) STARTS IN THIS SECT. SOME PINK (HARD) MIN - RHODONITE(?)

933 - 961

BVAT - STRG QTZ-CHL-MAGN ALT'D TUFF WITH STRG QTZ VN'B. BANDING AT 60 DEG C/A. MASSIVE PYR IN SILIC RTX OCC 956.5 - 961 FT WITH SOME SILS.

961 - 974

PPHB - CHL-MAGN ALT'D HBL PORP.

974 - 1160

BVAT - MOD-STRG CHL-MAGN ALT'D MASS AND BDD VOLC. PYR 2-5%. BANDING STRG FROM 1052 AT 60 DEG C/A. SILS OCC 1055 - 1102. PINK ZED (LAUM) MOD FROM 1082 FT.

1160 - 1195

SKAR - BRN-BRN, PERV CHL, BIO, MAGN, PYROX SKARN. STKWK QTZ VNS WITH CHL-MAGN ENVS. DISG PYR AND CPY. DR-GRY, CHL-SERIC -ZED ALT'D QFP AT 166 - 1168 FT. POSS PYROX DEV AT CONTACTS.

1195 - 1215

PBSD - BK BANDED, BRN-GRY, SILIC'D, QTZ VN'D, MAGN, CHL, SERIC(+/-) ALT'D FG SED (TUFF?) -"PORCELLANITE". BDB THIN AT 55 DEG C/A. MOD QTZ VN'D WITH MAGN CORES AND MAG-HEM SELV CUT BY CHL-EPI-PYR VNS CUT BY LATER CALC-ZEO VNLTs. PYR 3-5% WITH DISSEM = VNLTs.

1215 - 1250

SKAR - BRN-BRN, MAGN-PYROX SKARN WITH BISS CPY AND 5% PYR CUT BY MULT QTZ-MAGN VNS TO 20 CM THK AND CALC VNS TO 3 CMS THK. RED DYKE OF QFP AT 1235 - 1240 PLUS SCATT DYKES CUT BY GRY-WT QTZ VNS AND QTZ-MAGN VNS.

1250 - 1300

PPRF - GRY-WT, CHL-SERIC ALT'S QFP WITH <5% MAFICS. VARIABLE BRN SIZE AND PERCENT OF QTZ/FELD PHENOS. SERIC ASSOC WITH SHRS/FRACTS. PYR GEN <1%. MULT PHASES OF QFP.

1300 - 1350

PBVS - BLK, TAN, GRY BANDED, QTZ-MAGN VN'D/BANDED, CHL ALT'D TUFF(?) CUT BY EPI-PYR, WT CALC VNLTs. POSS PYROX ALT'D. QFP DYKES (<2FT THK) AT 1314 AND 1318 FT. MINOR CPY (0.1 - 0.2%CU)

Island Copper Mine.
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DRILLHOLE/TRVERSE : E-067 (CONTINUED)

S U M M A R Y R E M A R K S

1350 - 1392

PBTf - MOD STRG BRN BIO-CHL ALT'D (+PYROX?) TUFF(?) TO 1370 AND
CHL-MAG ALT'D TUFF TO 1392 CUT BY Qtz-MAGN VNS. RK SILIC FROM
1374 - 1380. RED HEM ALT'N OF MAGN INCR FROM WK TO MOD WITH
DEPTH. PYR 1-3%. DISS CPY (0.2 - 0.3%CU). BGS AT 55 DEG C/A.
LT DR/TAN MIN IN BGS (GARN?). SILS OCC IN VUGGY CALC VNS.
MINDR SPHAL.

1410 - 1442

PBTf - CHL ALT'D, SHR'D, HIGHLY VN'D (MACRO AND MICRO) VOLC.
Qtz-MOLY VNS TO 30 CM THK. SOME HEM, SERIC ON SHRS. BRN
BIO(?) ALT'N AT 1430 - 1440.

1442 - 1474

PBVS - INTERBDD CHL-MAGN ALT'D, SILIC TUFF AND THIN BANDED CHL,
EPI, HEM, Qtz ALT'D SANDY-SILTY SEGS (TUFFS?). REDDISH MIN OCC
WITH EPI AS IN HOLE E-70 (TIKULITE?). PYR 3-5%. MAIN VNS/FFS =
PYR, HEM, CHL. PYROX ALT'D(?)

1474 - 1526

PBTf - MOD-HIGHLY FRACT'D, VN'D/MICROVN'D, MOD CHL, WK EPI,
MAGN ALT'D COARSE ASH ANDES TUFF. RK SIM TO 1410 - 1430. NOTE
AMETHYST AT 1498 FT. PYR 1-3%. RK V-HIGHLY FRACT FROM
1502 - 1526.

1525 - 1528

MISM - MISLATCH. NO CORE

1538 - 1568

SKAR - RED-BRN, GRN, BLK BANDED, MOD CHL, EPI, MAG ALT'D, VERY
CALCAREOUS, GARNET-PYROX SKARN. PYR 5-10%. BGS AT 45-53 DEG
C/A. BLUE MIN ON FRACT AT 1538 - 1540 FT. BRK RED HEM AND BRK
ORANGE-RED ZED VNS OCC INTERMIXED. MAIN VNS: CLAC, EPI, PYR
AND ZED.

1568 - 1580

PBSD - LT DR, DK GRN, BANDED, TH BDD, MOD CHL, OR AND WK MAGN
ALT'D, MOD CALCAR SEGS. BGS AT 50-55 DEG C/A. PYR 5-7% WITH
DISS = VNLTs.

1580 -1630

PBSD - DR, BLK, BRN BANDED, WKLY BDD, MOD-STRG CALC, STRG
EPI-PYR, MOD CHL ALT'D SEGS. PYR GEN +10%, LDC MASS (TO 50%).
CALC VNS +SCMS THK AT 45 DEG C/A AND INCR TO BTM CONT. SOME
BLK SILS WITH CALC.

1630 - 1650

PBTf - TAN, REDDISH STAINED, LINEY, SILIC, WK CHL EPI ALT'D
TUFF. PYR 5%, DISS AND MICRO VNS WITH CHL ENVS.

Island Copper Mine
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DRILLHOLE/TRVERSE : E-067 (CONTINUED)

S U M M A R Y R E M A R K S

1650 - 1718

PBSD - GRAY, GRN, TAN THIN BDD, CHL, EPI ALT'D, MOD CALC SEDS (TUFFS?) WITH SHORT SECTS (<10 FT) OF IM PYR-EPI-CHL+/-BARN (SKARNY) ALT RK (PYR TO 50%) WITH BLK DISS SPHAL. REDDISH STN IN SILIC SECTS POSS HEM.

1718 - 1748

PBTF - GRN-GRY, CHL-EPI ALT'D, MIXED CS ASH AND LAP TUFF. PYR 3-5% WITH RED-BRN (HEM?) ALT'M ENVS ON PYR VMLTS.

1748 - 1901

PPHD - MASS, PYRITIC (3-5%), MED GRN'D, HBL PORP (40-50% PHENOS). SOME FINER GRN'D INTR MIXED IN AT 1808 - 1814. THIN BDD SEDS OCC AT 1869.5 - 1876. SEDS BLEACHED, SILIC'D, CHL, EPI ALT'D WITH BDD AT 10 - 20 DEG C/A

1901 - 1916

PBSD - SIMILAR TO 1869.5 - 1876. NON LINEY TUFFS AND SEDS.

1916 - 1945

PBTF - CHL-EPI ALT'D ASH TUFF WITH BANDS STRG EPI. PYR = 5% (=/-)

1945 - 1962

PBSD - SAME AT 1901 - 1916. BDD 0 - 20 DEG C/A. SILIC'D. PINK MIN WITH EPI (THULITE?)

1962 - 2010

SKAR - GRN-GRY, SILIC, CHL-EPI-PYR-SPHAL-PYR-MAGN-HEM ALT'D, GARNET-PYROX, BANDED SKARN. BDD AT 35 - 45 DEG C/A. RK HARD, WKLY LINEY. LOW CPY (0.15CU)

2010 - 2046

PPAN - GRN-GRY, CHL ALT'D, WKLY PORP'G ANDES (VAR OF HBL PORP?), PYR 3-5%. ADD WT CALC AND PINK ZED (LAUM) VMS FROM 2025.

2046 - 2122

ISDR - GRAY, MASS, WKLY CHL-SERIC ALT'D DIORITOID. PYR 3-4%. MK - HIGH VN'D WITH CALC AND ZED.

2122 - 2127

SKAR - RED-GRN TO DK GRN, BDD SKARN WITH CHL-PYR ALT'D DK GRN PYROX SKARN TO 2124 AND LAYERED REDDISH GRN AND LT GRN EPI, MAGN ALT'D PYROX SKARNS TO 2127. PYR 5-10% IN BANDS AND VMLTS. MK CPY (0.153CU)

2127 - 2168

PPHD - HBL PORP WITH TUFF LAYER (REMN) 2138.5 - 2146.5 WITH BDD AT 45 - 50 DEG C/A.

2168 - 2176

Island Copper Mine
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DRILLHOLE/TRVERSE : E-067 (CONTINUED)

SUMMARY REMARKS

SKAR - QTZ-PYR-EPI+/- MAG ALT, MG-CG RED GARN SKARN. WKLY
LINEY.

2176 - 2210

PPFX - GRY CHL-EPI-SERIC ALT'D FELD-HBL PORP (RELATED TO 2010?)
SKAR - YL-BRN, MED-CG, EPI ALT'D GARN-PYROX SKARN WITH >75%
GARN AND 10-20% QTZ-EPI-PYROX ALT'D SEDS (PORCELLANITE). PYROX
PROM AT TOP, GARN AT BTM. MAGN ALT'N MOD FROM 2218, WK ABOVE.
PYR 5-10%. DISS SPHAL.

2228.7 - 2273.5

PPHB - AS ABOVE. BK BLEACHED FROM 2264 TO BTM CONTACT.

2273.5 - 2296.5

SKARN - TAKEN AS TOP OF QUATZING FM. MED-CG RED-YL ANDRADITE
GARNET SKARN. CHL-EPI ALT'D. PYR TO +10%, AVG = 5%. YELLOW
GARNETS X-CUT RED GARNETS.

2296.5 - 2427

MARB - GRY-WT, MED BRN'D CALCITIC MARB WITH MINOR GARN SK
BANDS.

2427 - 2464

SKAR - BANDED YL-BRN AND RD GARN SKARN. INT PYR, MOD-HIGH
MAGN, CHL, EPI, HEM ALT'D. BEST CPY OCC 2427 - 2432
(0.76%CU/10FT). PYR +20% AND LOC MASS (+80%). INT PYR-EPI
ALT'N REPL >60% SKARN AT 2460 - 2464.

2464 - 2569

KNBA - BRN-GRY, MED BRN'D, CHL-EPI-MAG-PYR ALT'D ANDES-BASALTIC
VOLC CUT BY CALC-ZED-PYR VNS. PYR 5-10% TO 2500 AND 1-3%
BELOW. DYKES OF GRY-WT QFP OCC AT 2479 - 2494 AND 2500 - 2508.
SCATT QTZ-MOLY VNS. SOME CPY (0.1-0.3%CU)

2569 - 2813

PPRF - GRY, RED-OR, CHL-SERIC ALT'D, CG QFP. QTZ PHENOS TO
15MM. ORANGE COL DUE TO ZED AND PK CALC STN OF MTX. MAFICS
QTZ-MOLY VNS ADD. SOME PYROBIT (6ILS) WITH CALC IN FRACT'D/BXX
SECTS.

2813

END OF HOLE

DIAMOND DRILL HOLE ASSAYS

9:54 FRIDAY, FEBRUARY 20, 1987

HOLE=E-067

FROM	TO	CU PCT	MO PCT	FE PCT	AL PPM	AG PPM	PB PCT	ZN PCT	TAG
80.0	90.0	0.11	0.007	7.5	0.020	0.380	0.005	0.011	3661
120.0	130.0	0.18	0.010	5.6	0.040	0.360	0.006	0.014	4067
160.0	170.0	0.08	0.008	6.4	0.030	0.360	-0.001	0.005	3662
200.0	210.0	0.19	0.010	5.1	0.030	0.570	0.003	0.012	4068
240.0	250.0	0.17	0.013	7.1	0.020	0.790	0.009	0.012	3663
280.0	290.0	0.24	0.010	5.2	0.060	0.700	0.003	0.010	4069
320.0	330.0	0.12	0.008	7.3	0.010	0.290	0.003	0.008	3664
360.0	370.0	0.18	0.008	7.4	0.040	0.330	0.004	0.010	4070
400.0	410.0	0.13	0.009	6.8	0.010	0.400	0.002	0.007	3665
480.0	490.0	0.07	0.011	5.2	-0.010	0.230	-0.001	0.001	3666
540.0	500.0	0.10	0.014	7.0	.	.	0.004	0.009	4381
560.0	570.0	0.14	0.009	6.1	0.010	0.400	-0.001	0.006	3667
580.0	590.0	0.15	0.010	8.1	.	.	0.004	0.029	4382
620.0	630.0	0.29	0.011	8.1	.	.	0.006	0.006	4383
640.0	650.0	0.13	0.006	9.0	0.030	0.660	0.001	0.006	3668
660.0	670.0	0.16	0.009	8.3	.	.	0.005	0.006	4384
720.0	730.0	0.04	0.008	6.4	0.010	0.320	-0.001	0.001	3669
740.0	750.0	0.09	0.010	5.8	.	.	0.003	0.003	4385
780.0	790.0	0.11	0.010	4.6	.	.	0.003	0.002	4386
800.0	810.0	0.10	0.008	6.7	-0.010	0.330	-0.001	0.002	3670
820.0	830.0	0.17	0.014	4.5	.	.	0.003	0.003	4387
860.0	870.0	0.21	0.010	7.0	.	.	0.006	0.008	4388
880.0	890.0	0.27	0.012	6.3	0.020	0.920	0.001	0.005	3671
900.0	910.0	0.19	0.011	5.1	.	.	0.003	0.009	4389
940.0	950.0	0.13	0.011	10.7	.	.	.	.	4390
960.0	970.0	0.12	0.008	7.8	0.010	0.850	0.001	0.017	3672
1020.0	1030.0	0.13	0.011	5.4	.	.	.	.	4391
1040.0	1050.0	0.20	0.009	6.3	0.010	0.930	-0.001	0.011	3881
1060.0	1070.0	0.12	0.010	7.4	.	.	.	.	4392
1100.0	1110.0	0.16	0.011	5.9	.	.	.	.	4393
1120.0	1130.0	0.17	0.017	6.0	0.010	0.700	-0.001	0.005	3882
1140.0	1150.0	0.21	0.012	5.7	.	.	.	.	4394
1160.0	1170.0	0.19	0.008	8.8	.	.	0.002	0.010	3754
1170.0	1180.0	0.12	0.007	9.3	.	.	0.002	0.008	3755
1180.0	1190.0	0.11	0.007	8.4	.	.	0.002	0.007	3756
1190.0	1200.0	0.15	0.008	7.1	.	.	0.002	0.007	3757
1200.0	1210.0	0.12	0.008	7.9	0.010	0.670	-0.001	0.003	3885
1210.0	1220.0	0.12	0.007	8.4	.	.	0.001	0.006	3758
1220.0	1230.0	0.08	0.008	9.2	.	.	0.001	0.006	3759
1230.0	1240.0	0.08	0.009	6.3	.	.	0.002	0.008	3760
1240.0	1250.0	0.09	0.008	7.3	.	.	0.001	0.004	3761
1250.0	1260.0	0.14	0.013	2.5	.	.	0.001	0.002	3762
1260.0	1270.0	0.10	0.012	2.1	.	.	0.001	0.004	3763
1270.0	1280.0	0.09	0.011	2.3	.	.	0.001	0.002	3764
1280.0	1290.0	0.05	0.015	1.8	-0.010	0.210	-0.001	0.002	3883
1290.0	1300.0	0.06	0.013	2.4	.	.	0.001	0.007	3765
1300.0	1310.0	0.13	0.013	11.0	.	.	0.002	0.010	3766
1310.0	1320.0	0.16	0.019	8.5	.	.	0.002	0.004	3767
1320.0	1330.0	0.12	0.008	10.7	.	.	0.002	0.008	3768
1330.0	1340.0	0.13	0.008	11.1	.	.	0.002	0.006	3769

DIAMOND DRILL HOLE ASSAYS

9:54 FRIDAY, FEBRUARY 20, 1987

HOLE=E-067

FROM	TO	CU PCT	MO PCT	FE PCT	AU PPM	AG PPM	PB PCT	ZN PCT	TOT
1340.0	1350.0	0.18	0.014	12.0	.	.	.	.	3770
1350.0	1360.0	0.22	0.009	9.7	.	.	.	.	3771
1360.0	1370.0	0.25	0.012	8.4	0.050	1.000	-0.001	0.009	3884
1370.0	1380.0	0.29	0.011	7.3	.	.	.	.	3772
1380.0	1390.0	0.32	0.011	7.9	.	.	.	.	3773
1390.0	1400.0	0.27	0.009	11.8	.	.	.	.	3774
1400.0	1410.0	0.25	0.010	8.7	.	.	.	.	3775
1410.0	1420.0	0.19	0.016	4.4	.	.	.	.	3776
1420.0	1430.0	0.15	0.017	3.8	.	.	.	.	3777
1430.0	1440.0	0.12	0.011	6.2	.	.	.	.	3778
1440.0	1450.0	0.20	0.013	6.4	0.020	1.120	0.002	0.015	3886
1450.0	1460.0	0.22	0.010	6.6	.	.	.	.	3779
1460.0	1470.0	0.17	0.012	5.4	.	.	.	.	3780
1470.0	1480.0	0.25	0.011	5.9	.	.	.	.	3781
1480.0	1490.0	0.12	0.012	3.5	.	.	.	.	3782
1490.0	1500.0	0.13	0.024	2.9	.	.	.	.	3783
1500.0	1510.0	0.12	0.021	3.7	.	.	.	.	3784
1510.0	1520.0	0.09	0.014	4.6	.	.	.	.	3785
1520.0	1530.0	0.16	0.012	5.7	0.020	1.000	0.001	0.013	3887
1530.0	1540.0	0.14	0.008	7.7	.	.	.	.	3786
1540.0	1550.0	0.13	0.008	9.7	.	.	.	.	3787
1550.0	1560.0	0.14	0.010	10.7	.	.	.	.	3788
1560.0	1570.0	0.13	0.011	12.6	.	.	.	.	3789
1570.0	1580.0	0.12	0.013	8.5	.	.	.	.	3790
1580.0	2090.0	0.15	0.007	11.3	.	.	.	.	3791
1590.0	1600.0	0.12	0.007	9.0	.	.	.	.	3792
1600.0	1610.0	0.17	0.007	10.7	0.010	1.300	0.001	0.010	3888
1610.0	1620.0	0.16	0.008	9.7	.	.	.	.	3793
1620.0	1630.0	0.12	0.012	5.2	.	.	.	.	3794
1630.0	1640.0	0.09	0.010	4.6	.	.	.	.	3795
1640.0	1650.0	0.13	0.012	9.4	.	.	.	.	3796
1650.0	1660.0	0.13	0.011	8.4	.	.	.	.	3797
1660.0	1670.0	0.13	0.009	9.2	.	.	.	.	3798
1670.0	1680.0	0.11	0.010	6.2	.	.	.	.	3799
1680.0	1690.0	0.12	0.009	9.0	0.010	1.100	0.002	0.290	3889
1690.0	1700.0	0.16	0.009	6.2	.	.	.	.	3800
1700.0	1710.0	0.13	0.008	8.7	.	.	.	.	3801
1710.0	1720.0	0.18	0.009	8.5	.	.	.	.	3802
1720.0	1730.0	0.08	0.008	6.3	.	.	.	.	3803
1730.0	1740.0	0.07	0.008	6.3	.	.	.	.	3804
1740.0	1750.0	0.07	0.008	6.4	.	.	.	.	3805
1750.0	1760.0	0.06	0.008	7.7	.	.	.	.	3806
1760.0	1770.0	0.06	0.007	7.9	0.010	0.480	0.001	0.106	3890
1770.0	1780.0	0.07	0.006	8.6	.	.	0.002	0.015	3807
1780.0	1790.0	0.08	0.006	8.8	.	.	0.002	0.019	3808
1790.0	1800.0	0.09	0.006	9.0	.	.	0.002	0.026	3809
1800.0	1810.0	0.09	0.007	8.9	.	.	0.004	0.086	3810
1820.0	1830.0	0.09	0.007	8.0	.	.	.	.	4395
1840.0	1850.0	0.10	0.007	10.7	0.010	1.660	0.031	0.100	3891
1860.0	1870.0	0.07	0.006	7.8	.	.	0.002	0.086	3811
1870.0	1880.0	0.07	0.007	6.3	.	.	0.002	0.167	3812
1880.0	1890.0	0.07	0.006	7.8	.	.	0.003	0.152	3813

DIAMOND DRILL HOLE ASSAYS

9:54 FRIDAY, FEBRUARY 20, 1987

HOLE=E-067

FROM	TO	CU PCT	MO PCT	FE PCT	AU PPM	AG PPM	RE PCT	ZN PCT	TAG
1890.0	1900.0	0.09	0.006	6.1	.	.	0.002	0.164	3814
1900.0	1910.0	0.11	0.008	9.2	.	.	0.016	0.165	3815
1910.0	1920.0	0.06	0.007	6.1	.	.	0.002	0.129	3816
1920.0	1930.0	0.06	0.007	8.1	0.010	1.020	0.007	0.123	3892
1930.0	1940.0	0.07	0.007	6.6	.	.	0.003	0.132	3817
1940.0	1950.0	0.07	0.007	5.4	.	.	0.002	0.144	3818
1950.0	1960.0	0.07	0.007	6.8	.	.	0.002	0.154	3819
1960.0	1970.0	0.13	0.006	11.3	.	.	0.007	0.212	3820
1970.0	1980.0	0.10	0.005	15.6	.	.	0.010	0.219	3821
1980.0	1990.0	0.13	0.006	14.9	.	.	0.006	0.214	3822
1990.0	2000.0	0.09	0.006	9.8	.	.	0.003	0.217	3823
2000.0	2010.0	0.10	0.006	12.7	.	.	0.005	0.213	3824
2010.0	2020.0	0.06	0.007	6.8	.	.	.	.	3825
2020.0	2030.0	0.05	0.007	6.4	.	.	.	.	1496
2040.0	2050.0	0.07	0.008	6.0	.	.	.	.	3826
2060.0	2070.0	0.05	0.008	5.1	.	.	.	.	1497
2080.0	2090.0	0.07	0.007	5.8	.	.	.	.	3900
2100.0	2110.0	0.05	0.009	3.9	.	.	.	.	1498
2122.0	2127.0	0.15	0.011	12.8	.	.	.	.	3827
2127.0	2138.0	0.07	0.007	7.0	.	.	.	.	3828
2138.0	2140.0	0.10	0.012	9.4	.	.	.	.	3829
2140.0	2150.0	0.06	0.008	7.0	.	.	.	.	3830
2150.0	2160.0	0.11	0.007	8.5	.	.	.	.	3831
2160.0	2168.0	0.09	0.007	5.9	.	.	.	.	3832
2168.0	2176.0	0.11	0.009	10.5	-0.010	1.210	0.011	0.134	3864
2176.0	2190.0	0.06	0.008	5.6	.	.	.	.	3833
2190.0	2200.0	0.06	0.007	4.7	.	.	.	.	3834
2200.0	2210.0	0.08	0.007	6.3	0.010	.	0.004	0.017	3876
2210.0	2220.0	0.11	0.007	12.8	0.020	1.860	0.012	1.580	3865
2220.0	2228.0	0.09	0.007	13.7	0.020	0.560	0.005	0.035	3866
2240.0	2250.0	0.06	0.006	8.0	-0.010	0.600	0.013	0.033	3899
2250.0	2260.0	0.01	0.007	8.1	0.010	0.620	0.006	0.028	4526
2260.0	2270.0	0.01	0.009	7.5	-0.010	0.350	0.003	0.012	4527
2270.0	2273.5	0.01	0.008	6.8	0.010	0.590	0.002	0.012	4528
2273.5	2280.0	0.15	0.008	12.3	0.050	0.980	0.003	0.031	3867
2280.0	2290.0	0.11	0.009	12.2	0.090	0.490	0.004	0.030	3868
2290.0	2296.0	0.09	0.006	12.8	0.010	0.390	0.005	0.019	3869
2296.0	2310.0	0.06	0.006	0.4	.	.	.	.	3835
2310.0	2320.0	0.06	0.006	0.6	-0.010	0.200	0.008	0.014	3898
2320.0	2330.0	0.07	0.007	1.6	.	.	.	.	3836
2330.0	2340.0	0.05	0.005	0.1	.	.	.	.	3837
2340.0	2350.0	0.05	0.005	1.0	.	.	.	.	3838
2350.0	2360.0	0.06	0.006	1.2	.	.	.	.	3839
2360.0	2370.0	0.06	0.006	0.2	.	.	.	.	3840
2370.0	2380.0	0.05	0.006	0.1	.	.	.	.	4031
2380.0	2390.0	0.05	0.006	0.1	.	.	.	.	4032
2390.0	2400.0	0.05	0.007	0.1	.	.	.	.	4033
2400.0	2410.0	0.06	0.005	0.6	-0.010	0.110	0.007	0.016	3897
2410.0	2420.0	0.06	0.007	0.4	.	.	.	.	4034
2420.0	2427.0	0.09	0.007	1.3	.	.	.	.	4035
2427.0	2432.0	0.76	0.005	15.4	0.010	5.150	0.006	0.402	3870
2432.0	2442.0	0.47	0.005	20.5	0.050	4.790	0.005	1.760	3871

DIAMOND DRILL HOLE ASSAYS

9:54 FRIDAY, FEBRUARY 20, 1967

HOLE=E-067

FROM	TO	CU PCT	MO PCT	FE PCT	AU PPM	AG PPM	PB PCT	ZN PCT	...
2442.0	2451.0	0.25	0.005	19.6	-0.010	1.890	0.004	0.064	3872
2451.0	2456.0	0.33	0.006	13.0	-0.010	3.300	0.003	0.090	3873
2456.0	2460.0	0.56	0.006	13.0	0.010	4.680	0.004	0.016	3874
2460.0	2464.0	0.45	0.005	12.5	0.010	2.400	0.003	0.034	3875
2464.0	2480.0	0.33	0.008	7.7	0.020	1.450	0.004	0.015	4036
2480.0	2490.0	0.14	0.013	2.8	-0.010	0.210	0.003	0.004	3896
2520.0	2530.0	0.15	0.016	6.2	0.020	0.220	0.003	0.010	4037
2560.0	2570.0	0.21	0.013	5.9	-0.010	0.740	0.006	0.008	3895
2600.0	2610.0	0.10	0.012	2.2	0.010	0.300	0.001	0.005	4038
2640.0	2650.0	0.09	0.012	2.4	-0.010	0.230	0.002	0.004	3894
2680.0	2690.0	0.09	0.014	1.7	0.010	0.120	0.001	0.004	4039
2720.0	2730.0	0.07	0.013	1.9	-0.010	0.200	0.003	0.004	3893
2760.0	2770.0	0.08	0.012	1.6	0.010	0.700	0.020	0.025	4040
2800.0	2810.0	.	.	.	-0.010	.	.	.	3862

MAGNETIC SUSCEPTIBILITY

HOLE: E-17

INTERVAL START/FE.	+ 2'	+ 4'	+ 6'	+ 8'	INTERVAL AVERAGE
60) 1.5	3.5	4.7	3.9	1.5	1.79 (CGS UNITS)
70) 2.1	7.1	4.9	5.1	6.1	5.24
100) 5.5	6.5	4.3	4.4	1.7	3.02
110) 1.2	7.0	2.6	2.3	1.9	1.27
120) 3.6	2.8	5.6	8.2	6.4	1.68
130) 2.0	0.7	3.4	1.6	1.5	1.35
140) 3.8	1.4	1.0	3.3	1.7	1.55
150) 1.3	3.6	2.0	1.3	7.5	3.14
160) .32	.59	.72	.13	.60	.47
170) .86	.85	.23	1.5	.38	.76
180) 2.7	2.8	5.8	1.3	.43	2.6
190) 7.3	7.0	1.8	3.2	1.3	4.12
200) 3.0	4.4	1.66	1.5	2.8	2.47
210) 1.7	1.7	1.0	1.36	1.67	1.08
220) 2.4	2.4	1.0	1.05	1.00	1.17
230) .87	2.2	1.3	.71	1.4	1.29
240) .90	2.8	1.0	.55	1.2	1.29
250) .94	.59	1.4	.53	2.6	1.21
260) 1.6	1.6	.96	1.6	4.4	2.03
270) 1.4	.24	.48	1.9	1.3	1.06
280) .55	.99	4.3	1.5	.34	1.53
290) .25	1.00	1.0	.03	1.42	.34
300) 2.2	.42	.30	.05	1.00	.59
310) .12	1.1	.36	.35	.36	.45
320) 1.1	.69	1.9	2.7	3.0 1.7	1.61
330) 2.0	.61	2.4	5.6	1.8	2.42
340) 2.6	4.7	2.2	2.1	2.3	2.78
350) 3.3	2.0	4.0	1.8	2.1	2.64
360) 1.3	4.2	1.8	4.4	1.3	2.6
370) 2.3	4.4	2.9	3.6	.61	2.76
380) .77	1.1	1.4	7.2	1.1	3.71
390) 4.1	1.9	2.0	1.0	4.4	2.68
400) 1.4	.08	1.2	4.3	3.2	2.03
410) 5.3	3.7	2.2	2.5	2.8	3.3
420) 2.2	2.6	1.9	.89	1.6	1.83
430) 3.0	.14	.45	1.4	2.0	1.75
440) .84	3.8	1.1	.34	2.3	1.67

800

MAGNETIC SUSCEPTIBILITY

HOLE: E-67

INTERVAL START	+ 2'	+ 4'	+ 6'	+ 8'	INTERVAL AVERAGE (CGS UNITS)
450) 2.6	2.1	2.8 .64	1.8	1.5	2.88
460) 1.3	1.3	.47	2.0	1.8	1.31
470 - .56	1.1	7.8	.93	.00	4.0
480 - .00	.19	.00	.08	.00	.05
490 - .00	.81	.47	.19	.66	.42
500 - 2.1	3.0	2.3	4.4	3.2	3.1
510 - 1.7	.27	1.8	.05	1.0	1.45
520 - .83	1.3	1.3	1.6	1.8	1.1
530 - 1.3	4.4	5.5	2.9	2.2	3.26
540 - 2.7	3.1	8.3	2.4	4.0	4.1
550 - 2.9	2.7	2.8	2.4	1.4	2.44
560 - 1.0	.68	1.1	2.1	1.9	1.35
570 - 2.9	2.7	1.4	1.3	.12	1.68
580 - 1.8	.19	.77	1.8	1.2	1.15
590 - 2.8 1.4	2.8	4.5	4.4	1.2	2.86
600 - 3.2	3.3	.12	.05	5.1	2.35
610 - 2.5	1.5	3.7	5.0	.40	2.62
620 - 5.6	2.9	1.6	1.4	1.5	2.58
30 - 1.3	.54	1.0	.01	.12	.59
640 - 1.2	1.3	.03	.00	.72	.65
650 - 2.1	1.40	.47	.54	.13	.72
660 - .02	.24	.05	1.1	1.1	.502
670 - .10	1.5	6.5	.92	.02	1.80
680 - .04	.00	.00	.00	.00	.00
690 - .00	.00	.01	.00	.00	.00
700 - .00	.00	.00	.00	.00	.00
710 - .00	.00	.00	.00	.00	.00
720 - .01	.07	.00	.00	.00	.016
730 - .00	.00	.00	.00	.00	.00
740 - .00	.00	.00	.00	.00	.00
750 - .00	.00	.00	.00	.00	.00
760 - .00	.00	.00	.03	.77	0.16
770 - .00	.00	.02	.07	.00	0.18
780 - .00	.00	.00	.00	.00	.00
790 - .00	.00	.00	.00	.33	.066
800 - .01	.00	.00	.03	.07	.022
810) - .43	2.0	.63	.72	.00	0.756

MAGNETIC SUSCEPTIBILITY

HOLE: E-67

INTERVAL START	+ 2'	+ 4'	+ 6'	+ 8'	INTERVAL AVERAGE (CGS UNITS)
820-	.01	.00	.08	.03	.08
830-	.89	.81	.83	.39	.59
840-	.00	.00	.33	1.5	.87
850-	3.7	5.2	1.8	.14	2.27
860-	2.4	1.1	.37	.32	1.44
870-	3.3	3.9	4.8	3.7	4.62
880-	.31	.16	1.6	1.6	.95
890-	1.2	3.0	3.2	2.2	2.86
900)	7.0	.72	1.	9.1	4.20
910)	7.1	14	4.2	2.8	12.06
920)	9.0	2.9 6.2	9.4	4.9	7.9
930)	5.5	8.4	9.9	13	9
940)	9.1	18	19	6.8	14.58
950)	15	16	20	1.6	11.34
960)	3.0	8.5	1.0	3.0	4.78
970)	2.1	2.1	.11	.61	1.86
980)	7.2	10	.92	5.9	7.20
990)	2.2	2.2	9.2	6.5	4.58
1000)	1.0	.13	3.7	2.4	1.44
1010)	4.1	12	5.6	5.9	2.92
1020)	6.8	5.	6.7	4.6	5.32
1030)	4.5	4.2	4.4	2.6	4.3
1040)	5.7	5.0	5.5	3.0	4.38
1050)	3.8	7.2	6.2	6.7	6.18
1060)	4.6	4.4	5.3	3.5	5.3
1070	11.	17.	11	19	13
1080)	3.9	2.7	1.0	.09	1.97
1090)	.24	2.5	3.5	3.4	1.93
1100)	.12	1.8	5.5	9.1	4.26
1110)	5.5	6.5	2.4	4.9	4.5
1120)	3.9	6.2	5.2	6.1	4.84
1130)	2.5	7.1	5.5	6.1	5.86
1140)	4.6	3.1	3.4	8.2	4.62
1150)	2.7	5.3	6.6	7.6	5.04
1160)	2.2	13	2.7	.3	4.98
1170)	8.8	8.2	11.	4.7	8.04
1180)	3.3	5.7	8.8	1.7	3.94

MAGNETIC SUSCEPTIBILITY

HOLE: E-67

INTERVAL START	+2'	+4'	+6'	+8'	INTERVAL AVERAGE
1190) .17	.77	3.7	13.	11.	5.72 (CGS UNITS)
1200) 13	3.9	8.6	4.3	6.8	7.32
1210) 9.9	9.0	5.7	6.1	3.4	6.82
1220) 6.1	9.6	14	5.6	12	9.46
1230) 8.5	3.1	4.5	2.5	.19	3.7
1240) 1.5	6.9	2.8	10	11	6.44
1250) 3.7	.75	.03	.00	.0	.896
1260) .0	0	0	0	0	0
1270) .01	.01	.14	.0	.03	.038
1280) .05	0	.00	0	0	.01
1290) 0	0	0	0	.38	.076
1300) 1.5	.49	6.2	.64	11.	6.66
1310) 15	9.7	19 *	3.7	6.9	10.86
1320) 11	18	7.2	1.2	10	9.48
1330) 18	7.1	16	12	15	13.62
1340) 29.	14	NO 5.5	5.9	5.5	11.98
1350) 17	4.4	.84	1.6	4.2	5.6
1360) 5.3	2.7	7.4	3.8	3.5	4.54
1370) 11	7.2	5.8	3.7	2.5	6.04
1380) 3.6	9.2	2.6	8.4	2.6	5.28
1390) 4.3	7.1	8.0	12	11	2.2 8.48
1400) 22	3.2	2.2	2.9	.22	6.104
1410) 1.2	1.3	.25	.14	.03	.58
1420) .28	.86	.79	.70	.32	.59
1430) 1.5	.72	.04	.01	.08	.47
1440) .03	.01	2.1	4.6	2.2	1.78
1450) 2.3	4.2	.91	1.0	1.6	2.0
1460) .25	1.8	4.6	14	3.6	4.85
1470) 2.0	5.0	2.6	1.2	2.3	2.62
1480) 1.2	1.7	.63	.25	.36	.828
1490) .24	.01	0	.76	.26	.302
1500) .02	.07	.02	.26	.05	.084
1510) 0	.13	0	.17	.08	.076
1520) .68	.67	.19	midwell →	10	0. 5.5 5.51
1530) .66	.4	-	→ mistle	10	.20
1540) .66	4.1	.21	.46	2.2	1.53
1550) 2.3	5.7	9.3	3.5	3.8	4.92

M

MAGNETIC SUSCEPTIBILITY

HOLE: E-67

INTERVAL START	+ 2'	+ 4'	+ 6'	+ 8'	INTERVAL AVERAGE
1560 2:0	1.4	7.8	1.0	.17	2.47 (CGS UNITS)
70 .05	.02	.03	.00	.02	0.02
1580 .00	.07	.04	1.8	1.3	0.64
1590 .91	.06	.16	.80	1.1	0.60
1600 1.2	3.0	1.1	.05	.05	1.08
1610 .14	.72	1.4	.21	.75	0.64
1620 .04	.00	.00	.00	.00	.008
1630 .00	.00	.04	.03	.26	.066
1640 .50	.13	.00	.00	.00	.126
1650 .03	.00	.00	.00	.00	.006
1660 .13	.06	.00	.00	.00	.038
1670 .05	.15	.01	.35	.05	.122
1680 .01	.22	.20	.00	.04	.094
1690 .08	.01	.00	.00	.00	.018
1700 .00	.00	.00	.00	.00	.00
1710 .00	.00	.00	.00	.00	.00
1720 .04	.00	.00	.01	.01	.012
1730 .00	.00	.00	.00	.00	.00
40 .00	.00	.00	.00	.00	.00
1750 .18	.00	.00	.00	.00	.00
1760) .01	.01	0	.03	0	.01
1770) .09	.15	.01	.05	.01	.062
1780) .25	.47	.05	.13	.09	.21
1790) .16	.28	.13	.03	.09	.13
1800) .01	.03	.03	.03	.09	.038
1810) .09	.38	.15	.04	.01	.26
1820) .01	.03	0	.03	.01	.02
1830) .24	.1	.08	.03	.04	.1
1840) 0	0	.1	.03	.11	.24
1850) 0	.06	0	.05	.01	.02
1860) 0	.09	.11	.03	0	.09
1870) .02	.02	0	0	.01	.01
1880) .03	.02	.01	.03	.01	.02
1890) .02	.06	.10	.01	.03	.22
1900) 0	.16	.12	.05	0	.066
1910) .06	.03	.15	.02	.07	.064
1920) .07	.10	0	.01	.04	.044

MAGNETIC SUSCEPTIBILITY

HOLE: E-67

INTERVAL START	+2'	+4'	+6'	+8'	INTERVAL AVERAGE (G.S. UNITS)
1930) .06	0	.05	.01	.16	.056
1940) .05	.02	.01	.01	.02	.022
1950) .24	.02	.28	.02	.01	.074
1960) .03	.13	.87	2.5	4.3	1.56
1970) 5.2	34	5.2	4.0	7.1	11.1
1980) 3.2	9.5 .95	1.4	8.1	9.1	4.55
1990) 5.6	2.0	1.7	1.5	.16	2.19
2000- 1.2	3.7	3.5	6.2	8.7	4.66
2010- .08	.07	.19	.00	.02	0.36
2020- .07	.35	.02	.00	.00	0.15 .01
2030- .44	.00	.05	1.3	.02	.04
2040- 1.06	2.4	1.1	1.35	.82	.75
2050- .55	.90	1.0	.58	.11	.63
2060- 1.34	.43	1.07	.21	.14	.24
2070- .00	.05	.00	.00	.15	.04
2080- .20	.07	.01	.01	.07	.07
2090- .09	.11	1.00	.00	.00	.04
2100- 1.00	.12	.05	1.05	1.36	.12
10- 1.27	1.24	.53	1.23	.04	.26
2120- .03	.07	1.0	3.7	1.0	1.16
2130- .08	.44	.05	.12	.04	.15
2140 .12	.02	.05	.06	.03	.06
2150 .07	.08	.02	.05	.03	.05
2160 1.6	.07	.05	.07	.15	.39
2170 1.2	1.2	.05	.00	.00	.49
2180 .07	.86	2.1	1.0	.34	.87
2190 .03	.33	.11	.26	.08	.16
2200 .55	.25	.08	.03	.00	.18
2210 .02	.07	.08	.88	2.1	1.63
2220 .68	3.1	7.2	.39	.21	2.32
2230 .11	.07	.14	.24	.03	.12
2240 .04	.04	.10	1.03	.04	.09
2250 .17	.10	.17	.32	.34	.22
2260 .15	.12	.06	.12	.56	.20
2270 .31	.04	1.01	.04	.09	.10
80 .07	.08	.06	.12	.09	.08
2290 .10	1.07	.11	.00	1.03	.06

MAGNETIC SUSCEPTIBILITY

HOLE: E-67

INTERVAL START	+ 2'	+ 4'	+ 6'	+ 8'	INTERVAL AVERAGE (CGS UNITS)
2300 - .00	.00	.00	.00	.00	.00
2310 - .06	.00	.00	.00	.00	.01
2320 - .00	.00	.00	.00	.00	.00
2330 - .00	.00	.00	.00	.00	.00
2340 - .00	.02	.02	.02	.00	.01
2350 - .00	.00	.00	.00	.00	.00
2360 - .00	.00	.00	.02	.00	.00
2370 - .01	.01	.00	.01	.01	.01
2380 - .00	.00	.01	.36	.00	.07
2390 - .00	.00	.00	.00	.00	.00
2400 - .00	.00	.00	.00	.00	.00
2410 - .00	.00	.00	.00	.08	.01
2420 - .29	.12	.01	.26	1.5	.44
2430 - 2.2	1.4	1.2	4.3	10.0	3.8
2440 - 14.	13.	5.7	3.2	11.	9.4
2450 - .02	.47	.25	.00	.00	.15
2460 - .04	.04	.04	.05	.00	.03
2470 - .03	.05	.05	.04	.00	.00
2480 - .00	.00	.00	.00	.00	.00
2490 - .05	.03	.55	.99	2.7	.86
2500 - .00	.09	.00	.02	6.4	1.3
2510 - 3.3	.66	.06	1.9	2.1	1.6
2520 - 1.2	3.1	18.0	8.8	.56	6.3
2530 - 1.7	.03	.71	1.9	.86	1.04
2540 - 1.2	1.9	1.1	2.2	6.8	2.64
2550 - 4.3	.67	1.84	.95	.46	1.44
2560 - 1.22	.24	1.5	1.7	.05	.74
2570 - .00	.00	.00	.00	.00	.00
2580 - .00	.00	.00	.00	.00	.00
2590 - .00	.02	.00	.00	.00	.00
2600 - .00	.00	.00	.31	.60	.18
2610 - .24	.19	.07	.04	.08	.12
2620 - .15	.06	.00	.00	.00	.04
2630 - .00	.00	.06	.32	.01	.08
2640 - .11	.13	.02	.15	.02	.09
2650 - .07	.21	.00	.07	.10	.09
2660 - .01	.00	.01	.00	.00	.00

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE #: E-67

DATE: OCT 22, 1966 LOGGED BY: MGS

STAGES (FT)	INTERVAL		CORE	% RECY	CUMUL. LENGTH OF PIECES (INCHES)			R. Q. D.			# OF FRACT?	FRAC. INTENSITY
	TO	INCHES			CUM. INCHES	REC. # (IN)	>2"	7/4"	28"	2'			4'	8'
20	84	48	48	65	135		5			10.4		
84	90	72	120	37	51		6			8		
90	91	12	132	6	50		8			8		
91	94 1/2	42	174	39	93		20			48		
14 1/2	104	114	288	101	86		42			37		
104	113	108	396	108	100		80			74		
113	120	84	480	72	86		18			21		
120	124	48	528	48	100		22			46		
124	129 1/2	66	594	66	100		4			6		
129 1/2	134	54	648	58	107		11			20		
134	143	108	756	120	111		28			26		
143	148	60	816	60	100		35			58		
148	150 1/2	24	840	22	92		14			58		
150	152 1/2	30	870	30	100		8			8		
152 1/2	157 1/2	60	930	60	100		24			40		
157 1/2	161	42	972	36	86		13			31		
161	165	48	1020	48	100		4			8		
165	170	60	1080	64	107		32			53		
170	174	48	1128	34	71		11			23		
174	179	60	1188	60	100		21			35		
179	185	72	1260	67	93		39			54		
185	188	36	1296	27	84		8			8		
188	195	84	1380	88	105		18			21		
195	201	72	1452	72	100		36 1/2			51		
201	209	96	1548	90	94		21			22		
209	214	60	1608	42	70		8			8		
214	219	60	1668	70	117		12			23		
219	221	24	1692	31	130		4			17		
221	231	120	1812	112	93		44			37		
231	237	72	1884	64	89		40			56		
237	245	96	1980	89	93		54			56		
245	251	72	2052	70	97		36			50		
251	261	120	2172	120	100		81			67.5		
261	264	36	2208	132	89		4			11		

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE #: E-67

DATE: OCT 22/86

LOGGED BY: MJB

DEPTH (FT)		INTERVAL		CORE	%	QUAL. LENGTH OF PIECES (INCHES)			R. Q. D.			# OF	FRAC.
FROM	TO	INCHES	CUM. INCHES	REC. Ø (IN)	REC%	≥ 2"	7.4"	≥ 8"	2'	4'	8'	FRACT.?	INTENSITY
264	273	108	2316	108	100		62			57			
273	280	84	2400	82	98		41			49			
280	290	120	2520	120	100		78			65			
290	294	48	2568	48	100		26			54			
294	299	60	2628	56	93		34			57			
299	305	72	2700	72	100		26			36			
305	315	120	2820	120	100		72			60			
315	322	84	2904	81	96		38			45			
322	332	120	3024	109	91		70			58			
332	338	72	3096	78	108		43			67			
338	345	84	3180	70	83		42			50			
345	347	24	3204	29	120		0			0			
347	352	60	3264	54	90		4 1/2			7.5			
352	359	84	3348	67	80		4			5			
359	361	24	3372	32	133		15			62.5			
361	362	12	3384	8	67		0			0			
362	366	48	3432	42	87.5		4			8			
366	375	108	3540	112	104		68			63			
375	382	84	3624	72	86		36			43			
382	392	120	3744	120	100		76			63			
392	398	72	3816	76	104		21			29			
398	402	48	3864	48	100		13			27			
402	405	36	3900	24	67		5			14			
405	411	72	3972	72	100		25			38			
411	413	24	3996	24	100		5			21			
413	417	48	4044	48	100		4			8			
417	421	48	4092	48	100		27			56			
421	426	60	4152	58	97		9			15			
426	429 1/2	42	4194	42	100		0			0			
429 1/2	433	42	4236	48	114		5 1/2			13			
433	436	36	4272	36	100		5			14			
436	445	108	4380	93	86		57			53			
445	451	72	4452	72	100		36			50			
451	461	120	4572	108	90		28			73			

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE #: E-67

DATE: OCT 22 / 23 / 86

LOGGED BY: HE

FOOTAGE (FT)		INTERVAL		CORE	%	EQUAL LENGTH OF PIECES (INCHES)			R. Q. D.			# of	FRAC.
FROM	TO	INCHES	CUM. INCHES	RET. # (IN)	RECY	>2'	2'-4'	28'	2'	4'	8'	FRACT.?	INTENSITY
461	469	96	4668	95	98.9		65			67.7			
469	479	120	4778	106	88.3		60.5			50.4			
479	489	120	4908	111	92.5		69			57.5			
489	499	120	5028	115	95.8		35			29.1			
499	506	84	5112	84	100		27			32.1			
506	513.5	90	5202	87	96.6		21.5			23.8			
513.5	521.5	96	5298	88	91.6		33			34.3			
521.5	530	102	5400	96	94.1		26			25.4			
530	535	60	5460	55	91.6		6			10			
535	542	84	5544	102	121		8.5			10.1			
542	547	60	5604	57	95		13			21.6			
547	548.5	18	5622	18	100		0			0			
548.5	553	54	5676	48	88.8		23.5			43.5			
553	559	72	5748	72	100		15.5			21.5			
559	569	120	5888	102.5	85.4		34.5			32.9			
569	574	60	5928	59	98.3		22			36.6			
574	578	48	5976	48	100		13			27			
578	585	84	6060	77	91.6		10			11.9			
585	591	72	6132	72	100		5			6.9			
591	596	60	6192	50	83.3		16			26.6			
596	598	24	6216	24	100		0			0			
598	600	24	6240	22	91.6		0			0			
600	602	24	6264	23	95.8		0			0			
602	607.5	66	6330	57	86.36		0			0			
607.5	611.5	48	6378	43	89.5		9			18.7			
611.5	619	90	6468	90	100		23			25.5			
619	625	72	6540	67	93		22.5			31.25			
625	628.5	42	6582	36	85.7		16			38			
628.5	635	78	6660	75	96.1		40			51.2			
635	639	48	6708	46	95.8		9			18.7			
639	644	60	6768	59	98.3		10			16.6			
644	654	120	6888	118	98.3		31.5			26.2			
654	664	120	7008	123	102.5		63			52.5			
664	674	120	7128	119.5	99.5		90.5			75.4			
674	684	120	7248	117	97.5		93.5						

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE # : E-67

DATE: OCT 23/86
24/86

LOGGED BY: MR. [unclear]

ELEVATIONS (FT)		INTERVAL		CORE	%	CUMUL. LENGTH OF PIECES (INCHES)			R. Q. D.			# OF	FRACT.
FROM	TO	INCHES	CUM. INCHES	REC. # (IN)	RECT	>2'	7.4'	7.8'	2'	4'	8'	FRACT.	INTOS. IT
684	694	120	7368	114	96		82			68.3			
694	701	84	7452	70	83.3		31.5			37.5			
701	708	84	7536	84	100		34			40.4			
708	715	84	7620	66	78.5		28.5			33.9			
715	725	120	7740	109	90.8		78.5			65.4			
725	731	72	7812	71	98.6		41.5			57.6			
731	738	84	7896	84	100		30			35.7			
738	748	120	8016	98	81.6		66			55			
748	756	96	8112	76	79.1		25.5			26.5			
756	761	60	8172	66	110		50.5			84.1			
761	769	96	8268	94	97.9		40			41.6			
769	779	120	8388	110	91.6		50.5			42			
779	788	108	8496	100	92.5		37			34.2			
788	797	108	8604	93	86.1		25.5			23.6			
797	805.5	102	8706	98	96		20.5			20			
805.5	815	114	8820	109	85.9		12			10.5			
815	825	120	8940	113	94.1		64.5			53.7			
825	835	120	9060	107	89.1		43.5			36.2			
835	845	120	9180	113	94.1		52			43.3			
845	853	96	9276	91	94.7		14.5			15.1			
853	859.5	78	9354	80	102.5		0			0			
859.5	869.5	120	9474	120	100		12.5			10.4			
869.5	878	102	9576	99	97.0		0			0			
878	885	84	9660	84	100		19.5			23.2			
885	891 1/2	78	9738	78	100		9			11			
891 1/2	894 1/2	36	9774	28	78		4			11			
894 1/2	898	42	9816	46	109		14			33			
898	902	48	9864	42	87.5		5 1/2			11			
902	911 1/2	114	9978	114	100		20			17.5			
911 1/2	918	78	10056	78	100		21 1/2			27.5			
918	922 1/2	54	10110	60	111		23			42.5			
922 1/2	933	126	10236	120	95		14			11			
933	937	48	10284	42	87.5		24			50			
937	945	96	10380	110	114		48			50			

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE #: E-67

DATE: OCT 24/86
27/86

LOGGED BY: MB

FOOTAGES (FT)		INTERVAL		CORE	%	CUMUL. LENGTH OF PIECES (INCHES)			R. Q. D.			# of	FAC.
FROM	TO	INCHES	CUM. INCHES	REC. Ø (IN)	RECT	≥ 2"	7/4"	3/8"	2'	4'	8'	FACTS	INTERVAL
945	953 1/2	100	10,480	108	108		41			41			
953 1/2	963 1/2	120	10,600	120	100		72			60			
963 1/2	970	78	10,678	78	100		45			58			
970	982	144	10,822	124	86		49			34			
982	985	36	10,858	42	117		0			0			
985	988	36	10,894	20	56		0			0			
988	990	24	10,918	36	150		4			17			
990	994	48	10,966	38	79		4 1/2			9			
994	1001	24	11,050	88	105		9			11			
1001	1010	108	11,158	104	96		10			9			
1010	1014 1/2	56	11,214	48	86		9 1/2			17			
1014 1/2	1022	90	11,304	92	102		17			19			
1022	1024	24	11,328	24	100		0			0			
1024	1032	96	11,424	90	94		16			17			
1032	1041	108	11,532	120	111		0			0			
1041	1050	108	11,640	130	120		4			7			
1050	1060	120	11,760	102	85		28			23			
1060	1070	120	11,880	118	98		50			42			
1070	1077	84	11,964	72	86		28			33			
1077	1087	120	12,084	132	110		43			36			
1087	1092	60	12,144	84	140		0			0			
1092	1102	120	12,264	112	93		13			11			
1102	1111	108	12,372	86	80		4			4			
1111	1121	120	12,492	116	97		65			54			
1121	1131	120	12,612	112	93		54			45			
1131	1141	120	12,732	112	93		27			22.5			
1141	1142	12	12,744	16	133		0			0			
1142	1155	36	12,780	36	100		13			36			
1145	1150	60	12,840	60	100		10			17			
1150	1160	120	12,960	120	100		69			57.5			
1160	1170	120	13,080	120	100		84			70			
1170	1180	120	13,200	120	900		72			60			
1180	1184 1/2	54	13,254	52	96		15			28			
1184 1/2	1195	126	13,380	124	98		107			85			

6 72
7 84
8 96

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE #: E-67

DATE: OCT 27/86 LOGGED BY: ms

FOOTAGES (FT)		INTERVAL		CORE		CUMUL. LENGTH OF PIECES (INCHES)			R. Q. D.			# OF	FRAC.
FROM	TO	INCHES	CUM. INCHES	REC. # (IN)	RECY	>2"	>4"	>8"	2'	4'	8'	FRACT.	INTEREST
1195	1203	96	13,476	104	108		22			22.9			
1203	1214	132	13,608	126	95		36			27			
1214	1218	48	13,656	53	121		4			8			
1218	1226	96	13,752	87	91		58			60			
1226	1235	108	13,860	108	100		84			78			
1235	1245	120	13,980	120	100		87			72.5			
1245	1255	120	14,100	115	96		102			85			
1255	1265	120	14,220	120	100		92			77			
1265	1275	120	14,340	116	97		56			47			
1275	1285	120	14,460	124	103		54			45			
1285	1295	120	14,580	120	100		108			90			
1295	1305	120	14,700	114	95		108			67.5			
1305	1315	120	14,820	104	87		85			71			
1315	1317	24	14,844	35	146		24			100			
1317	1325	96	14,940	90	100		72			75			
1325	1335	120	15,060	115	96		83			69			
1335	1344	108	15,168	94	87		54			50			
NQ → 1344	1345	12	15,180	8	67		0			0			
1345	1355	120	15,300	126	105		36			30			
1355	1366	132	15,432	126	109 97		35			29			
1366	1376	120	15,552	120	100		66			55			
1376	1386	120	15,672	120	100		55			46			
1386	1396	120	15,792	120	100		82			63			
OCT 26/86 → 1396	1406	120	15,912	115	96		63			52.5			
1406	1416	120	16,032	120	100		42			35			
1416	1421	60	16,092	72	120		15			25			
1421	1429	96	16,188	88	92		25			26			
1429	1434	60	16,248	72	120		9			15			
1434	1442 1/2	102	16,350	110	108		46			45			
1442 1/2	1447	54	16,404	54	100		28			52			
1447	1456	108	16,512	102	94		59			55			
1456	1464	96	16,608	96	100		26			27			
1464	1474	120	16,728	118	98		54			45			
1474	1484	120	16,848	120	100		41			34			

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE #: E-67

DATE: OCT 28/86

LOGGED BY: MB

MATCH
OCT 29/

FOOTAGES (FT)		INTERVAL		CORE	%	CUMUL. LENGTH OF PIECES (INCHES)			R. Q. D.			# OF	FRACT.
FROM	TO	INCHES	CUM. INCHES	REC. # (IN)	RECY	>2"	7-4"	28"	2'	4'	8'	FRACT.?	INTEREST?
1484	1494	120	16,968	126	105		10			8			
1494	1504	120	17,088	120	100		38			32			
1504	1507	36	17,124	60	167		0			0			
1507	1516	108	17,232	83	77		0			0			
1516	1519	36	17,268	36	100		0			0			
1519	1526	84	17,352	75	89		4			5			
MATCH 1526	1536	120	17,472	10	8		0			0			
OCT 29/ 1536	1541.5	66	17,538	48	72.72		0			0			
1541.5	1542	6	17,544	5	83.3		0			0			
1542	1547.5	66	17,610	60	90.9		0			0			
1547.5	1555	90	17,700	84	93		27.5			30			
1555	1565	120	17,820	117	97.5		64.5			54			
1565	1575	120	17,940	123	102		68			57			
1575	1585	120	18,060	116	97		84.5			70			
1585	1595	120	18,180	114	95		70			58			
1595	1605	120	18,300	114	95		59.5			49			
1605	1615	120	18,420	115	96		13.5			11			
1615	1625	120	18,540	116	97		63.5			53			
1625	1635	120	18,660	113.5	94		31			26			
1635	1645	120	18,780	117	97		38.5			32			
1645	1652	84	18,864	83	99		35.5			42			
1652	1662	120	18,984	120	100		42			35			
1662	1672	120	19,104	114	95		66			55			
1672	1682.5	126	19,230	114	90		90.5			79			
1682.5	1692.5	120	19,350	118	98		77.5			64			
1692.5	1703	126	19,476	121	96		73			58			
1703	1713	120	19,596	122	102		100.5			84			
1713	1723	120	19,716	120	100		64			53			
1723	1724	12	19,728	11.5	96		5			42			
1724	1734.5	126	19,854	118	94		49			39			
1734.5	1742.5	96	19,950	23	86		27			28			
1742.5	1750.5	96	20,046	93	97		2.5			9			
1750.5	1756	66	20,112	56	85		14			21			
1756	1766	120	20,232	124	103		30			25			

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE #: E-67

DATE: OCT 30/86

LOGGED BY: MB

FOOTAGES (FT)		INTERVAL		CORE	%	QUAL. LENGTH OF PIECES (INCHES)			R. Q. D.			# of	FRAC.
FROM	TO	INCHES	EVAL. INCHES	REC. Ø (IN)	REC. %	≥ 2"	7/4"	7/8"	2'	4'	8'	FRACT.	INTER.
1786	1786	120	20,352	120	100		49			41			
1776	1786	120	20,472	120	100		64			53			
1786	1796	120	20,592	120	100		75			62.5			
1796	1806	120	20,712	120	100		83			69			
1806	1816	120	20,832	120	100		69			57.5			
1816	1826	120	20,952	120	100		41			34			
1826	1836	120	21,072	120	100		67			56			
1836	1846	120	21,192	120	100		57			47.5			
1846	1856	120	21,312	120	100		42			35			
1856	1866	120	21,432	120	100		54			45			
1866	1876	120	21,552	120	100		49			41			
1876	1886	120	21,672	120	100		39			32.5			
1886	1896	120	21,792	120	100		84			70			
1896	1906	120	21,912	120	100		53			44			
1906	1916	120	22,032	112	93		52			46			
1916	1926	120	22,152	126	105		41			34			
1926	1936	120	22,272	120	100		36			30			
1936	1946	120	22,392	120	100		21			17.5			
1946	1956	120	22,512	120	100		43			36			
1956	1964	96	22,608	96	100		27			28			
1964	1971	84	22,692	84	100		33			39			
1971	1981	120	22,812	120	100		38			32			
1981	1987	72	22,884	68	94		24.5			34			
1987	1997	120	23,104	94	78		32.5			31			
1997	2004	84	23,088	84	100		38.5			46			
2004	2014	120	23,208	116	97		51.5			43			
2014	2022	96	23,304	92	96		24			34			
2022	2032	120	23,424	108	90		15			12.5			
2032	2043	120	23,544	120	100		7			6			
2042	2052	120	23,664	109	91		12.5			15			
2052	2062	120	23,784	117	98		34			28			
2062	2072	120	23,904	116	97		50			43			
2072	2082.5	126	24,030	113	89		44			35			
2082.5	2092.5	120	24,150	120	100		48.5			40			

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ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE # : E-67

DATE: OCT 31/86

LOGGED BY: HZ

FOOTAGE (FT)		INTERVAL		CORE	%	CUMUL. LENGTH OF PIECES (INCHES)			R. Q. D.			# of	FRACT.
FROM	TO	INCHES	CUM. INCHES	REC. # (IN)	REC. %	>2"	7.4"	78"	2'	4'	8'	FRACT.?	INTEGRITY
2092.5	2103	126	24,276	119	94		37.5			30			
2103	2113	120	24,396	129	91		43.5			36			
2113	2123.5	126	24,522	120	95		85			67			
2123.5	2133.5	120	24,642	112	93		80			67			
2133.5	2136	30	24,672	30	100		17.5			58			
2136	2146	120	24,792	106	88		60			50			
2146	2155	108	24,900	108	100		50.5			47			
2155	2165	120	25,020	119	99		57			48			
2165	2175	120	25,140	118	98		74			62			
2175	2185	120	25,260	119	99		39			33			
2185	2196	132	25,392	122	92		71			54			
2196	2206	120	25,512	117	98		80			67			
2206	2216	120	25,632	119	99		57.5			48			
2216	2226	120	25,752	115	96		95			79			
2226	2236	120	25,872	108.5	90		66			55			
2236	2246	120	25,992	119	99		65			54			
2246	2256	120	26,112	120	100		53			44			
2256	2266	120	26,232	120	100		93			78			
2266	2276	120	26,352	120	100		99.5			83			
2276	2286	120	26,472	114	95		44.5			37			
2286	2296	120	26,592	103	86		64			53			
2296	2306	120	26,712	119	99		94			78			
2306	2316	120	26,832	120	100		95			79			
2316	2326	120	26,952	122	102		113			94			
2326	2336	120	27,072	118	98		102.5			85			
2336	2346	120	27,192	115	96		92.5			77			
2346	2356	120	27,312	120	100		89			74			
2356	2366	120	27,432	117	98		93.5			78			
2366	2376	120	27,552	110.5	92		100			83			
2376	2384	96	27,648	86	90		53.5			56			
2384	2389	60	27,708	72	120		35.5			59			
2389	2399	120	27,828	117	98		97			81			
2399	2409	120	27,948	120	100		95			79			
2409	2419	120	28,068	120	100		76			63			

NOV

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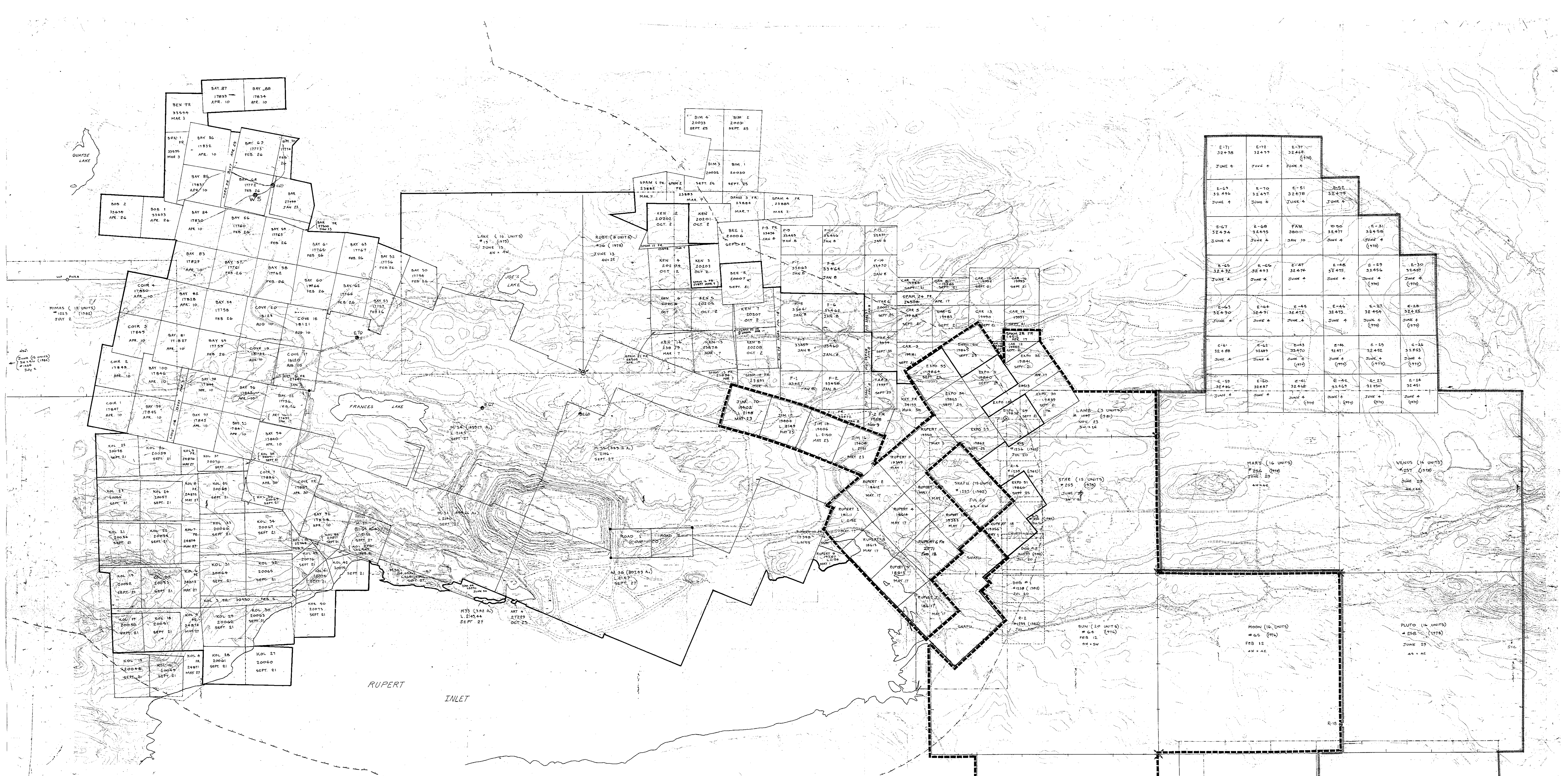
ROCK QUALITY DESIGNATION (R.Q.D.)

H.E.

HOLE #: F-67

DATE: NOV. 3/86 LOGGED BY:

FOOTAGES (FT)		INTERVAL		CORE	%	CUMUL. LENGTH OF PIECES (INCHES)			R. Q. D.			# of	FRAC.
FROM	TO	INCHES	CUM. INCHES	RET. (IN)	RECT	≥ 2"	7.4"	7.8"	2'	4'	8'	FRACT.?	INTERVAL
2419	2429	120	28,188	120	100		94			78			
2429	2439.5	126	28,314	116	92		87			69			
2439.5	2449.5	120	28,434	114	95		65			54			
2449.5	2456	120	28,512	62	79		45			58			
2456	2459	120	28,548	36	100		185			51			
2459	2469	120	28,668	116	97		89			74			
2469	2479	120	28,788	118	98		445			37			
2479	2489	120	28,908	120	100		67.5			56			
2489	2497	96	29,004	90	94		22			23			
2497	2506	108	29,112	104	96		245			23			
2506	2516	120	29,232	114	95		74			62			
2516	2526	120	29,352	118	98		735			61			
2526	2536	120	29,472	118	98		445			37			
2536	2546	120	29,592	115	96		49			41			
2546	2556	120	29,712	117	98		285			21			
2556	2562	72	29,784	75	104		7			10			
2562	2572	120	29,904	109	91		71			59			
2572	2582	120	30,024	116	97		96			80			
2582	2592	120	30,144	118	98		104			87			
2592	2602	120	30,264	116	97		66.5			55			
2602	2612	120	30,384	120	100		80			67			
2612	2621 1/2	114	30,498	102	89.5		72			63			
2621 1/2	2631 1/2	120	30,618	120	100		54			45			
2631 1/2	2641 1/2	120	30,738	116	97		67			56			
2641 1/2	2645	42	30,780	46	109		16			38			
2645	2656	132	30,912	136 (6)	103		44			33			
2656	2666	120	31,032	112	93		54			45			
2666	2676	120	31,152	116	97		52			43			
2676	2686	120	31,272	120	100		45			37.5			
2686	2696	120	31,392	120	100		32			27			
2696	2706	120	31,512	120	100		22			18			
2706	2718	72	31,584	80	111		19			26			
2718	2727.5	126	31,710	117	93		59			47			
2727.5	2732	114	31,824	111	97		24.5			21			



E-71 32478 JUNE 4	E-72 32479 JUNE 4	E-73 32478 JUNE 4	E-51 32479 JUNE 4	E-52 32479 JUNE 4
E-69 32478 JUNE 4	E-70 32477 JUNE 4	E-51 32478 JUNE 4	E-52 32479 JUNE 4	E-51 32479 JUNE 4
E-67 32478 JUNE 4	E-68 32475 JUNE 4	PAM 30011 JAN 10	E-50 32477 JUNE 4	E-51 32478 JUNE 4
E-65 32478 JUNE 4	E-66 32473 JUNE 4	E-47 32478 JUNE 4	E-48 32475 JUNE 4	E-50 32478 JUNE 4
E-63 32478 JUNE 4	E-64 32471 JUNE 4	E-45 32478 JUNE 4	E-46 32475 JUNE 4	E-47 32478 JUNE 4
E-61 32478 JUNE 4	E-62 32489 JUNE 4	E-43 32470 JUNE 4	E-44 32475 JUNE 4	E-45 32478 JUNE 4
E-59 32478 JUNE 4	E-60 32487 JUNE 4	E-41 32470 JUNE 4	E-42 32475 JUNE 4	E-43 32478 JUNE 4

PACIFIC SURVEY CORPORATION "C-652" NEG. NO. 5437

• POSTS/PINS CONFIRMED BY MINE SURVEYORS
 - LCP'S - MOS CLAIMS
 - EXTENT OF MILBOURNE'S 7500' ZONE OF INTEREST
 - MILBOURNE BOUNDARY (1972 EDITION PLUS ADDITIONS AND DELETIONS)
 - LIMITS OF CLAIMS SURVEYS

MARY (16 UNITS)
365 (198)
JUL 22
45 x 40

VAL
836 (198)
JAN 15
45 x 14

WAWK (12 UNITS)
878 (198)
MAR 20
48 x 30

WAA5 (16 UNITS)
836 (198)
MAR 26
48 x 40

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

15,707

PART 5 OF 6

Utah Mines Ltd. ISLAND COPPER MINE Port Hardy, B.C.	
Drawn by JR	Date MAY '84
Traced by JR	Scale
Approved by JL	Revision JUNE 86
Drawn Elev. 1" = 4,000'	Drawn No.