



Province of British Columbia

Ministry of Energy, Mines and Petroleum Resources

ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TYPE OF REPORT/SURVEY(S)	TOTAL COST
DIAMOND DRILLING	\$54,308.29

AUTHOR(S) GORDON A. CLARKE SIGNATURE(S) *G. Clarke*

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED Sept. 25, 1990 and Dec. 4, 1985 YEAR OF WORK '85

PROPERTY NAME(S) CENTRAL '86 GROUP

COMMODITIES PRESENT NOT KNOWN

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

MINING DIVISION NANAIMO NTS 92 L 11 W / 12 E

LATITUDE 50° 38' LONGITUDE 127° 31'

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

Bay 50, 52/53, 56, 58/63, 68/70 (17754, 17756/57, 17760, 17762/67, 17772/74 Cork Fr (31677), Bar (27499), Bar Fr (27500), Lake (15) Ruby (16) Bim 1/4 (20030/33) Spam 1 Fr/4Fr (23882/85) Spam 12 Fr/13 Fr, 16 Fr/17Fr., 21 Fr/22 Fr., 24 Fr (23893/94, 23897/98, 24505/06, 24508) Continued next page

OWNER(S) (1) UTAH MINES LTD. (2) GORDON MILBOURNE

MAILING ADDRESS BOX 370 PORT HARDY, B.C., VON 2P0. C/O LADNER DOWNS 2100 - 700 W. GEORGIA STREET

OPERATOR(S) (that is, Company paying for the work) (1) UTAH MINES LTD. (2) GEOLOGICAL BRANCH ASSESSMENT REPORT

MAILING ADDRESS AS ABOVE

14,084

SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude): The area is underlain by the Upper Triassic to Lower Jurassic volcanic and sedimentary succession of the Vancouver and Bonanza Groups, Mid Jurassic quartz to granodioritic stocks (Quatse Stock) and quartz feldspar dykes and Horn blende porphyry dykes and/or sills of undetermined age. Hydrothermal alteration and mineralization are associated with the porphyry dykes in Bonanza and Parson Bay tuffs and metasomatic alterations effect some sediments. The succession dips gently to the southwest at 30° - 40°. Assessment reports #8150, 11366, 11460 and other reports filed by Utah.

REFERENCES TO PREVIOUS WORK

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INTRODUCTION

Between September 10 and September 21, 1985, two diamond drill holes totalling 542.6 m (1780 ft.) were drilled on the Bay 59 and Bay 60 claims, part of the Central 86 group of mineral claims. This formed part of the drilling program carried out in exploration for a near surface porphyry copper-molybdenum deposit. Drilling on the second of these holes was in progress at the time of filing for assessment - the remainder of the costs are included under separate cover.

PROPERTY DESCRIPTION

The Central 86 group consists of 100 claims/units adjoining and north of the Island Copper Mineral Leases.

Physiography:

The area is characterized by low to moderate hills with a maximum relief of 120 meters. Stephen's Creek cuts west across the central part of the group.

Access:

The area is accessible by paved road from Port Hardy, eight kilometers to the north and by logging road suitable for two wheel drive vehicles. The actual drill sites are located on newly built logging road subgrade accessible by tracked vehicles.

Previous Work:

Recent work by Utah has included mapping, VLF/Mag, IP and geochem surveys on and adjacent to the Central 86 group and diamond and percussion drilling west and southwest of the Bay claims.

Objective:

The objective of the drilling was to intersect a near surface porphyry copper-molybdenum mineral deposit. Previous drilling had indicated the presence of weak copper mineralization in the area and these holes were located to intersect higher grade extensions of this material.

Work Performed:

The following core holes were drilled on the group of claims.

Hole	Claim	Claim #	Mine Grid Co-ordinates		Elevation		Length(ft)
			Easting	Northing	Meters	A.S.L.	
E-63	Bay 60	17764	17492.1	15141.9	1197.5		495
E-64	Bay 59	17763	17250.0	16210.0	1200.0		1285 to Sept 21 1465 total to depth

The drill core was logged, photographed and measured for recovery, RQD (percent core greater than or equal to 2, 4, and 8 inches in length) and magnetic susceptibility. The core was split and sampled, normally in 10 foot intervals with variations as noted. Most of E-63 and portions of E-64 were only sampled over 1 - 10 foot run per 40 feet. Samples were run for copper, molybdenum, iron, gold and silver at the Island Copper assay lab. The core is stored in racks at the mine site.

E-63 was logged by G.A. Clarke, staff geologist and E-64 was logged by J.A. Fleming, Chief Geologist, both at Utah Mines Ltd., Island Copper Mine..

RESULTS

Hole E-63

The first metres (53 feet) was tri-coned away as overburden. In actual fact, the interval from 11.0 to 16.2 m (36 to 53 ft.) may have been soft bedrock; the first interval to 18.3 m (53 to 60 ft.) is a sheared, sericitic fault zone. From 17.1 to 30.5 m (56 to 100 feet) the rock is Bonanza volcanics, probably tuffaceous. Alterations are weak chloritization and sericitization associated with shears and silicification. From 30.5 to 42.7 m (100 to 140 ft.) is a bedded, moderately silicified Parson Bay sedimentary section with occasional tuff bands to 2 feet thick. A patchy weak pinkish/brown alteration probably reflects the presence of garnet. A strong fault zone exists from 42.7 m to 74.1 m (140 to 243 ft.) where core is completely sheared. Strong zeolite stockwork and minor quartz/calcite vein fillings heal the shear zones. Occasional unaltered parent fragments are non-banded pale green tuffs. Pyrite fracture fillings to 10% by volume and strong pyrobitumen (gilsonite) staining are scattered through the fault zone. From 74.1 to 150.9 m (243-495 ft.) Parson Bay tuffs and banded Parson Bay sediments alternate. Moderate chlorite and silicic alterations occur throughout with silicification preferentially favouring the finer grained sediments. Gilsonite is common as black fracture and veinlet coatings. Scattered very minor sphalerite and specks of molybdenite are noted.

Hole E-64

The hole penetrated 18.3 m of overburden. From 18.3 m to 295 metres was Parson Bay formation interlayered tuffs and sediments. Tuff bands are generally coarse ash texture, relatively even grained, non banded or bedded units to several metres thick. The sediments are finely laminated pale to dark green and pinkish brown banded (bedded). Alterations are weak to moderate chloritization which favours tuff bands, weak silicification, generally favouring finer sediments and patchy epidote and magnetite alteration. Some skarnification is noted between 154.5 m and 165.5 m. From 97.5 to 121.9 and 165.5 to 180.4 sections of sub. to euhedral hornblende porphyry cut the sequence. These consisted of large hornblende phenos to 15 mm and minor feldspar in a medium green aphanitic matrix. Weak chlorite alteration occurs in the 97.5 to 121.9 m run, weak chlorite/magnetite and minor epidote occur in the lower run. From 260.6 - 295 is Parson Bay tuffs. These are non banded and fairly

massive. From 260.6 to 274.3 a vague crystalline appearance may imply intrusive (dike) origins. This section has moderate chlorite and strong quartz carbonate and zeolite veining. Alterations from 274.3 to 307.2 m are weak silicification, moderate to strong chlorite and magnetite and minor epidote 2-3% sulphides, mainly pyrite are noted. From 307.2 m to 402 m is a medium grained quartz feldspar porphyry of dioritic to granodioritic composition. Patchy pervasive zeolite alteration colours portions pink and weak chlorite in parts green hue. Minor sericite throughout section. Occasional biotite/chlorite/sericite altered andesite dikes are noted. From 402.0 to 425.8 metres is medium green uniform, fine grained (ash) tuff. Alterations are weak chlorite and magnetite with occasional strong magnetite. From 425.8 m to 452.6 m is a quartz-or granodiorite (Island Intrusions). It is fine grained, greenish grey with weak chlorite and moderate magnetite alteration. Runs of porphyritic material to 10 m grain size of the same composition make up about 10% of the interval.

DISCUSSION

The contact between Bonanza and Parson Bay formations projected from sparse surface mapping had to be substantially shifted southward by the occurrence of Parson Bay sediments in E-63. This may be a result of the strong faulting encountered in the hole. It has implications for the lower contacts of the sequence as well. The weak hydrothermal alterations suggested nearby heat sources which were not encountered in E-63. E-64 penetrated the predicted sections. The weak metasomatic alterations and silification in the upper section suggested the presence of intrusive material which was invisible to surface surveys. The intrusives encountered, notably the quartz feldspar porphyry, therefore were not a total surprise. Weak mineralization encountered throughout the hole eliminates the possibilities of economic porphyry ore in the area. The barren quartz diorite (stock) encountered at 1397 ft. (425.8 m) further reduces the economic search area.

CONCLUSIONS

The drilling has indicated a revision in stratigraphic boundaries and has eliminated the E-63/E-64 area from consideration for shallow porphyry mineralization. The sub-economic mineralization that is present, is too deep to be exploitable.

STATEMENT OF COSTSHoles E-63 and E-64DIAMOND DRILLING CONTRACTORSA) To September 21, 1985Overburden

11-' @ \$16.75		\$ 1,842.50
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Rock

885 @ \$16.75	\$14,823.75	
500 @ \$17.50	8,750.00	
285 @ \$18.25	<u>5,201.25</u>	28,775.00

Field Costs

9½ @ \$60	570.00	
28 @ \$50	1,400.00	
47 @ \$25	<u>1,175.00</u>	3,145.00

B) September 22 - 26, 1985Rock

180' @ \$17.75		3,285.00
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Field Costs

4 hrs. @ \$50	200.00	
10 hrs. @ \$25	<u>250.00</u>	450.00

Other Charges

Casings and Shoes	2,141.23	
Mob and Demob	286.77	
Supplies and Freight	<u>1,836.39</u>	<u>4,269.39</u>

\$41,766.89OTHER CONTRACTORS

1) Port Hardy Bulldozing: Cat & Low Bed		3,415.00
2) Public Freightways: Highboy		<u>660.00</u>
		4,075.00

TOTAL CONTRACTOR COSTS:-

\$45,841.89

UTAH COSTS

		<u>To Sept.21</u>		<u>Sept.22-26</u>	
1) Core House Labour @ \$75		\$	800		\$135
2) Supervision and Core Logging			1,900		270
3) Company Overhead @ 25% of Supervision and Labour			675		101
4) Core Storage @ \$0.50/ft	1690 ft	845	180 ft.		90
5) Truck and Fuel @ \$15/day	12 days	180	5 days		60
6) Assays @ \$15.00	159 ea.	2,250	14 ea.		210
7) Core Boxes @ \$4.84	114 ea.	552	10 ea.		48.40
8) Report Preparation			350		
			<hr/>		<hr/>
			7,552		\$914.40
TOTAL COST TO SEPTEMBER 21, 1985					\$49,658.89
TOTAL COST SEPTEMBER 22 - 25, 1985					\$ 4,649.40
					<hr/>
TOTAL:-					\$54,308.29
					=====
UNIT COST:	1960 ft.				\$27.71/ft.
	597.4 m				90.91/m

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

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

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 and Gas, and Saskatchewan Dept. of Mineral Resources during the 1975 and 1976 summer field seasons as geophysical assistant; September, 1976 to February, 1977, Inco Limited, as a geologist in Thompson, Manitoba; Lloyd Geophysics, February, 1977 to May, 1979, as a geophysicist; Utah Mines Ltd., from October, 1979 to present, as geologist/geophysicist, presently under supervision of John A. Fleming.

MAGNETIC SUSCEPTIBILITY

HOLE: E 64

INTERVAL START	+ 2'	+ 4'	+ 6'	+ 8'	INTERVAL AVERAGE (CGS UNITS)
0 - 60					
60	1.66	.53	.1	.06	
70	.1	.06	-.1	.06	
80	0.0	.03	0.0	0.0	
90	0.0	.03	.03	.03	
100	.06	.03	0.0	.06	
110	0.0	0.0	0.0	.03	
120	.06	0.0	.06	.06	
130	.06	.03	.06	0.0	
140	.03	.03	.03	0.0	
150	.1	.06	.06	0.0	
160	0.0	0.0	0.0	0.0	
170	.36	.1	.36	0.0	
180	.06	.06	.1	4.63	
190	.03	.06	0.0	10.26	
200	0.0	0.0	0.0		
210		1.5	0.0	.1	
220	.06	0.0	0.0	0.0	
230	0.0	.03	0.0	.1	
240	.1	.1	0.0	.2	
250	0.0	0.0	0.0	0.0	
260	.4	.03	.13	0.0	
270	.13	.1	10.23	.6	
280	.13	.1	0.0	.06	
290	.1	.03	.06	.03	
300	.2	.96	.36	0.0	
310	0.0	0.0	0.0	.3	
320	.16	0.0	0.0	0.0	
330	0.0	.06	0.0	.03	
340	0.0	.86	1.3	0.0	
350	.1	.56	.26	0.0	
360	.03	0.0	0.0	.16	
370	.13	.13	.06	1.26	
380	.2	.53	.16	.06	
390	.06	.03	.06	.1	
400	.03	0.0	.03	.06	
410	.06	.1	.1	.06	

815

HOLE: E-64

MAGNETIC SUSCEPTIBILITY

INTERVAL START	+ 2'	+ 4'	+ 6'	+ 8'	INTERVAL AVERAGE (CGS UNITS)
420	.02	.02	.02	.02	
430	.02	.02	.02	.02	
440	.02	.02	.02	.02	
450	.02	.02	.02	.02	
460	.02	.02	.02	.02	
470	.03	.06	1.0	0.0	
480	.03	.1	0.0	0.0	
490	.06	.03	.03	.16	
500	.16	.1	.1	.56	
510	.16	.1	.1	.1	
520	.02	.1	.06	.32	
530	.02	.1	.03	.06	
540	.02	.1	.02	.02	
550	.13	2.3	1.5	.1	
560	.06	.1	.12	.06	
570	.06	.46	.2	.32	
580	.1	.1	.3	.03	
590	.06	0.0	1.06	2.0	
600	0.0	0.0	.1	.03	
610	.1	.06	.66	.1	
620	.03	0.0	0.0	0.0	
630	.66	7.1	1.5	8.2	
640	.27	.03	.4	.3	
650	.93	0.0	.03	.03	
660	.06	.06	0.0	.3	
670	0.0	.1	.1	.06	
680	.13	.06	1.4	.87	
690	1.5	0.0	0.0	0.0	
700	0.0	.1	0.0	.03	
710	0.0	.06	.06	.1	
720	.06	0.0	.27	.3	
730	.86	4.0	3.8	.47	
740	.17	.4	.97	.06	
750	.37	.2	3.9	8.8	
760	.33	.2	1.2	.16	
770	2.8	.8	.1	.3	
780	.4	1.9	.37	0.0	

MAGNETIC SUSCEPTIBILITY

HOLE: E-64

INTERVAL START	+ 2'	+ 4'	+ 6'	+ 8'	INTERVAL AVERAGE (CGS UNITS)
790	.87	.5	.5	.5	
800	.03	.5	.6	.8	
810	.27	0.0	.6	.25	
820	.17	10.5	17.64	12.33	
830	12.8	4.34	8.54	14.0	
840	5.5	12.0	9.67	7.43	
850	8.0	.83	.03	.03	
860	0.0	.3	.1	.03	
870	.06	.5	.6	1.07	
880	.3	.2	.6	.5	
890	.1	.5	.5	.13	
900	4.03	7.2	.87	9.3	
910	.73	6.53	7.1	9.67	
920	.4	10.0	2.6	11.0	
930	12.67	.4	.24	4.7	
940	9.73	10.0	12.5	3.5	
950	3.77	19.0	10.67	16.67	
960	0.4	11.2	.7	.16	
970	.03	.06	.03	.05	
980	.03	1.05	.77	.13	
990	.27	.06	1.13	.5	
1000	5.33	20.33	11.33	.97	
1010	.97	.1	.17	.17	
1020	.13	.06	.13	.4	
1030	.97	.77	.1	.17	
1040	.07	.03	.06	.06	
1050	.1	.6	.1	.6	
1060	.77	.67	.23	.1	
1070	2.8	3.97	.2	.06	
1080	.1	.13	.03	.1	
1090	no sample		.27	.5	
1100	0.0	0.0	0.0	.23	
1110	.03	1.13	.03	.5	
1120	.33	.03	.1	.03	
1130	.03	.33	.53	.77	
1140	.1	.4	.2	.5	
1150	.1	.7	.5	.5	

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE #: E63

DATE: 10/9/85

LOGGED BY: BDL

FOOTAGES (FT)		INTERVAL		CORE REC. (IN)	% REC.	CUMUL. LENGTH OF PIECES (INCHES)			R. Q. D.			# OF FRACT.	FRAC. INTERVAL	
FROM	TO	INCHES	CUM. INCHES			>2"	7/4"	7/8"	2'	4'	8'			
START OF HOLE														
0	56	56	688	40	5.8	0	0	0	0	0	0			
56	65	108	790	108	100	64	56	32	62	52	30			
65	75	120	910	120	100	78	64	12	65	56	10			
75	85	120	1030	114	95	91	91	70	76	76	58			
85	87	24	1054	24	100	20	17	17	83	71	71			
87	96	108	1162	96	85	69	40.5	0	64	39	0			
96	106	100	1262	100	100	112	112	80	71	71	39			
106	110.5	54	1336	44	81	17	10	0	31	22	0			
110.5	116	55.5	1392	60	100	70	38	16	90	50	21			
116	126	100	1500	100	100	100	70	59	83	60	49			
126	136	100	1600	100	100	116	116	84	97	97	70			
136	146	100	1700	100	100	115	113	90	96	94	75			
146	156	100	1800	100	100	108	108	62	90	82	57			
156	166	100	2000	100	100	124	124	57	83	71	39			
166	176	100	2100	100	100	115	94	60	96	78	50			
176	186	100	2200	100	100	113	101	42	94	91	55			
186	196	100	2300	100	100	110	110	58	92	92	48			
196	206	100	2400	100	100	108	94	52	90	78	43			
206	216	100	2600	111	92.5	90	80	40	75	68	35			
216	219	36	2638	25	69	11	11	0	30.5	30.5	0			
219	226	84	2722	70	83	66	66	62	78.5	78.5	74			
226	236	100	2822	100	100	105	100	93	87.5	85	45			
236	246	100	2922	100	100	120	116	77	100	92	64			
246	256	100	3022	100	100	107	100	60	89	83	50			
256	266	100	3200	100	100	109	81	34	87	67.5	28			
266	276	100	3320	100	92	98	80	59	82	68	49			
276	286	100	3440	100	100	115	95	58	96	79	48			
286	296	100	3560	110	90	84	64	40	70	53	33			
296	305	108	3668	100	100	87	87	40	70	53	33			
305	315	100	3768	100	100	86	86	41	72	31	12			
315	325	100	3910	100	100	116	100	54	97	85	40.5			
325	335	100	4030	100	100	105	91.5	60	87.5	76	35			
335	345	100	4150	100	100	90	80	18	70	48	18			
345	355	100	4270	100	100	100	80	20	80	60	30			

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE # : E63

DATE : 17/9/85

LOGGED BY : BA4

FOOTAGES (FT)		INTERVAL		CORE	% REC'D	CUMUL. LENGTH OF PIECES (INCHES)			R. Q. D.			# of FRACT.?	FRAC. INTERVAL	
						FROM	TO	INCHES	CUM. INCHES	REC'D (IN)	≥ 2"			7/4"
320	330	100	4530	100	96	106	97	64	50	50	50			
330	340	100	4630	100	100	106	106	100	50	50	50			
375	385	100	4630	100	100	108	77	20	90	64	17			
385	394.5	114	4744	114	100	72	56	34	63	49	30			
394.5	404.5	120	4864	118	98	114	95	37	95	79	31			
404.5	415	100	4964	100	92	100	100	100	90	84	54			
415	425	100	5064	100	90	100	100	70	96	80	50			
425	435	100	5164	100	90	100	100	20	90	80	50			
435	445	100	5264	100	90	100	100	10	90	80	50			
445	455	100	5364	100	90	100	100	10	90	80	50			
455	465	120	5590	100	90	90	70	20	80	60	10			
465	475	90	5686	90	100	51	35	9	50	20	9			
475	485	100	5806	100	100	90	70	0	80	50	0			
485	495	90	5902	70	73	11	50	0	11	37	0			
495	505	100	5950	100	90	10	50	0	25	15	0			
~ ~ ~ ~ ~ END OF HOLE ~ ~ ~ ~ ~														

MAGNETIC SUSCEPTIBILITY

HOLE: E63

INTERVAL START	+ 2'	+ 4'	+ 6'	+ 8'	INTERVAL AVERAGE (CGS UNITS)
50'	.1				
60'	1.0	.7	.7	2.0	
70'	1.9	.1	.1	.5	
80'	0.0	3.1	0.0	.05	
90'	0.0	0.0	0.0	.1	
100'	6.4	7.1	1.1	.9	
110'	3.6	.1	0.0	.1	
120'	0.0	0.0	0.0	0.0	
130'	7.2	0.0	0.0	.1	
140'	.1	.1	.15	0.0	
150'	7.1	0.0	.1	.1	
160'	.1	.25	.1	0.0	
170'	.1	7.1	.1	.1	
180'	.13	0.0	0.0	0.0	
190'	.1	.1	.1	0.0	
200'	0.0	0.0	.1	0.0	
210'	2.7	7.1	7.1	.1	
220'	7.1	7.1	0.0	7.1	
230'	.13	7.1	7.1	.1	
240'	.1	7.1	7.1	.13	
250'	7.1	7.1	.1	7.1	
260'	0.0	0.0	0.0	0.0	
270'	7.1	7.1	0.0	0.0	
280'	0.0	.23	0.0	7.1	
290'	123	.16	7.1	7.1	
300'	7.1	SAMPLE	TAKEN	.4	
310'	1.6	.1	.13	.3	
320'	.46	.3	.4	7.1	
330'	.6	0.0	.1	.13	
340'	7.1	7.1	.13	7.1	
350'	0.0	7.1	0.0	7.1	
360'	0.0	.1	0.0	0.0	
370'	5.1	.1	0.0	7.1	
380'	0.0	.13	7.1	7.1	
390'	.1	7.1	7.1	.1	
400'	7.1	7.1	.1	0.0	
410'	.13	.13	7.1	.1	

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE #: E64

DATE: 9/24/85

LOGGED BY: BMS

FOOTAGES (FT)		INTERVAL		CORE	%	CUMUL. LENGTH OF PIECES (INCHES)			R. Q. D.			# of	FRACT.
FROM	TO	INCHES	CUM. INCHES	REC. # (IN)	REC. %	≥ 2"	7/4"	7/8"	2'	4'	8'	FRACT. #	INTERVAL
0	60	720	720	5	60	0	0	0	0	0	0		
60	62	24	744	15	63.5	2	0	0	2	0	0		
62	65	36	780	36	100	7	0	0	19	0	0		
65	70	60	840	60	100	8	4	0	13	6.6	0		
70	75	60	900	60	100	15	8	0	25	13	0		
75	76.5	18	918	18	100	3	0	0	12	0	0		
76.5	83.5	84	1002	84	100	34	4	0	40	4.7	0		
83.5	88.5	60	1062	60	100	14	0	0	23	0	0		
88.5	91	30	1092	30	100	8	0	0	20	0	0		
91	96	60	1152	60	100	8	4	0	12	6.6	0		
96	106	120	1272	120	100	63	32	8	52.5	27	6.6		
106	114	96	1368	96	100	36	17	0	31.5	18	0		
114	121	84	1452	89	93	76	71	71	79	74	74		
121	126	60	1512	60	100	36	28	18	60	42	30		
126	136	120	1632	120	100	91	91	73	72	72	61		
136	146	120	1752	120	100	49	30	0	42	25	0		
146	152	72	1824	72	100	48	34	85	67	47	12		
152	156	48	1872	38	79	26	20	0	54	42	0		
156	166	120	1992	120	100	95	67	33	79	56	27.5		
166	176	120	2112	120	100	55	32	0	46	27	0		
176	184	96	2208	96	100	41	22	0	43	23	0		
184	194	120	2328	120	100	72	53	39	60	44	32.5		
194	204	120	2448	120	100	86	76	24	72	63	20		
204	214	120	2568	408	100	MISL MATCH							
214	217.5	42	2610	36	86	8	0	0	19	0	0		
217.5	221	42	2652	42	100	8.5	0	0	20	0	0		
221	226	60	2712	60	100	42	40	40	70	67	67		
226	236	120	2832	120	100	103	64	48	86	53	40		
236	246	120	2952	120	100	91	79	32	76	66	37		
246	256	120	3072	115	96	89	68	27	74	57	20.5		
256	266	120	3192	115	96	63	29	12	52.5	34	10		
266	275	108	3300	108	100	96	72	11	89	67	10		
275	282	84	3384	80	95	52	36	8	62	42	9.5		
282	286	48	3432	48	100	16	15	10	33	31	21		
286	294	96	3528	96	100	35	23	0	36	24	0		

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE #: E-64

DATE: 9/24/85

LOGGED BY: BJS

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.:	INTENSITY
294	300	72	3600	72	100	26	5	0	36	6.5	0		
300	306	72	3672	72	100	33	15	0	46	21	0		
306	315	108	3780	108	100	78	45	20	72	42	18.5		
315	320	60	3840	56	93	24	12	0	40	20	0		
320	326	72	3912	72	100	55	38	28	76	53	39		
326	336	120	4032	120	100	48	29	12	50	20	12		
336	346	120	4152	120	100	72	40	0	61	33	0		
346	352	72	4224	72	100	29	16	0	47	22	0		
352	363	120	4344	120	100	80	42	9	67	35	2.5		
363	372	120	4464	120	100	40	22	10	50	27	7		
372	382	120	4584	120	100	72	55	20	64	46	17		
382	391	108	4692	108	100	60	40	17	63	37	16		
391	396	60	4752	60	100	50	30	24	57	32	40		
396	406	120	4872	120	100	96	67	9.5	80	56	8		
406	416	120	4992	120	100	75	100	39	66	55	65		
416	421	60	5052	60	100	39	28	9	65	47	12		
421	426	60	5112	60	100	37	28	10.5	62	53	13.5		
426	436	120	5232	120	100	90	65	19	75	54	16		
436	453.5	210	5442	102	48.5	59	34	16	22	16	7.6		avg 9/8
453.5	463.5	120	5562	120	100	103	61	18	86	51	15		443.5
463.5	473.5	120	5682	120	100	90	59	8.5	75	49	7		all Footage
473.5	483.5	120	5802	120	100	111	100	16.8	92.5	83	57		↓ core 10' less!
483.5	493.5	120	5922	96	80	52	34	29	43	28	24		
493.5	503.5	120	6042	120	100	86	72	33	72	60	27.5		
503.5	509	66	6108	66	100	27	25	0	41	32	0		
509	516	84	6192	84	100	34	24	10	40	28.5	12		
516	521	60	6252	52	97	34	22	17	57	37	28		
521	526	60	6312	60	100	45	34	20	67	57	33		
526	535	108	6420	108	100	72	54	12	67	50	17		
535	543.5	120	6540	102	100	70	70	56	76	69	55		
543.5	553.5	120	6660	120	100	75	100	44	96	84	37		
553.5	563.5	120	6780	120	100	22	55	27	77	48	22.5		
563.5	573.5	120	6900	120	100	105	100	31	87.5	84	26		
573.5	583.5	120	7020	120	100	111	91	38	92.5	32	32		
583.5	593.5	120	7140	110	97	50	17	0	70	10	0		

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE # : E-64

DATE : 9/27/85

LOGGED BY : BJS

FOOTAGES (FT)		INTERVAL		CORE	%	CUMUL. LENGTH OF PIECES (INCHES)			R. Q. D.			# of	FRAC.
FROM	TO	INCHES	CUM. INCHES	REC. D (IN)	REC. %	≥ 2"	≥ 4"	≥ 8"	2'	4'	8'	FRACT. 3	INTEGRITY
595	605	120	734	120	100	0	0	0	0	0	0		
605	615	120	726	120	100	0	0	0	0	0	0		
615	625	120	738	120	98	92	61	33	77	51	27		
625	635	120	7500	120	100	90	82	38	75	62	32		
635	645	120	7620	120	100	86	63	20	72	52.5	20		
645	655	120	7740	120	100	0	0	0	0	0	0		
655	665	120	7860	120	100	52	33	19	20.5	10	16		
665	675	120	7980	120	100	52	33	19	20.5	10	16		
675	685	120	8100	120	100	52	33	19	20.5	10	16		
685	695	120	8220	120	100	52	33	19	20.5	10	16		
695	705	120	8340	120	100	52	33	19	20.5	10	16		
705	715	120	8460	120	100	52	33	19	20.5	10	16		
715	725	120	8580	120	100	52	33	19	20.5	10	16		
725	735	120	8700	120	100	52	33	19	20.5	10	16		
735	745	120	8820	120	100	52	33	19	20.5	10	16		
745	755	120	8940	120	100	52	33	19	20.5	10	16		
755	762	84	9060	118	98	104	89	44	87	74	37		
762	763.5	18	9144	72	86	41	31	25	49	37	30		
763.5	763.5	0	9162	18	100	2.5	0	0	14	0	0		
763.5	774.5	132	9294	99	75	53	36	0	40	27	0		
774.5	784	114	9408	114	100	67	35	8	59	31	7		
784	793	108	9516	98	90	92	49	8	76	45	7		
793	801	96	9612	96	100	57	40	0	59	42	0		
801	811	120	9732	120	100	93	84	29	77.5	70	24		
811	821	120	9852	120	100	57	39	0	47.5	32.5	0		
821	823	24	9984	24	100	9	0	0	20.5	0	0		
823	833	120	9996	120	92	42	18	0	40	15	0		
833	843	120	10116	120	95	80	58	21	60	48	15.5		
843	849	72	10188	72	100	34	19	0	47	26	0		
849	856	84	10272	84	100	64	44	19	74	52	23		
856	866	120	10392	120	100	54	33	27	64	44	22.5		
866	874	96	10488	96	100	0	0	0	0	0	0		
874	878	54	10542	54	100	14	0	0	0	0	0		

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE #: E-64

DATE: 9/27/85

LOGGED BY: BJS

FOOTAGES (FT)		INTERVAL		CORE	%	CUMUL. LENGTH OF PIECES (INCHES)			R. Q. D.			# OF	FRAC.
FROM	TO	INCHES	CUM. INCHES	REC. (IN)	RECT	≥ 2"	7/4"	3/8"	2'	4'	8'	FRACT.?	INTACT?
905	915	120	10753	120	100	-	-	-	70.5	50	11		
915	925	120	10873	120	100	-	-	-	74.5	54.5	31		
925	935	120	10993	120	100	72	60	15	60	50	13		
935	945	120	11113	120	100	80	65	0	75	54	0		
945	955	120	11233	120	100	106	103	63	88	86	52.5		
955	965	120	11353	120	100	102	92	53	85	75.5	44		
965	975	120	11473	120	100	81	63	32	69.5	50.5	34		
975	985	120	11593	120	100	86	49	8	72	40	7		
985	995	120	11713	120	100	82	75	31	77	65	20		
995	1005	120	11833	120	100	91	73	73	81	57	10		
1005	1015	120	11953	120	100	81	45	20	75	37.5	12		
1015	1025	120	12073	120	100	36	15	10	30	6.5	8		
1025	1035	120	12193	108	90	51	45	46	67.5	54	39		
1035	1045	120	12313	120	100	72	57	0	65	45.5	0		
1045	1055	120	12433	120	100	72	57	21	62	52.5	17.5		
1055	1065	120	12553	0	100	51	25	0	53	21	0		
1065	1075	120	12673	120	100	62	36	20	52.5	30	17		
1075	1085	120	12793	120	100	86	64	8	72	53	6.6		
1085	1095	120	12913	120	100	74	36	14	62	30	12		
1095	1105	108	12981	108	100	41	18	0	38	17	0		
1105	1115	48	13032	48	100	0	0	0	0	0	0		
1115	1125	120	13152	24	23	3	0	0	2.5	0	0		
1125	1135	120	13272	63	50	34	26	0	28	22	0		
1135	1145	120	13392	120	100	92	41	12	77	34	10		
1145	1155	120	13512	120	100	72	19	0	60	16	0		
1155	1165	96	13608	96	100	60	36	0	62.5	27.5	0		
1165	1175	120	13728	120	100	72	45	12	60	37.5	10		
1175	1185	120	13848	120	100	70	52	9.5	58	43	8		
1185	1195	120	13968	120	100	76	60	0	63	50	0		
1195	1205	144	14112	144	100	122	61	21	85	42	14.5		→ tag @ 1171-1185
1205	1215	240	14352	212	188	165	95	0	44	39.5	0		→ tag 1186 available
1215	1225	120	14472	120	100	117	114	50	97.5	95	41.7		
1225	1235	120	14592	120	100	83	66	18	69.2	50	15		
1235	1245	120	14712	126	105	91	56	17	72.2	45.9	13.5		
1245	1255	120	14832	120	100	81	58	33	67.5	48.3	27.5		

HOLE # :

DATE :

LOGGED BY: AR

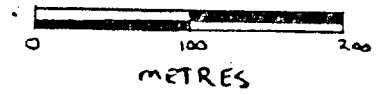
FOOTAGES (FT)		INTERVAL		CORE	%	CUMUL. LENGTH OF PIECES (INCHES)			R. Q. D.			# of	FRAC.
FROM	TO	INCHES	CUM. INCHES	REC. (IN)	REC.	≥ 2"	7/4"	7/8"	2"	4"	8"	FRACT.?	INTERVAL
1236	1246	120	14952	120	100	6	52	0	67	42.3	0		
1246	1254	96	15048	94	97.9	29	20	0	30.2	20.8	✓		
1254	1262	96	15144	96	100	77	72	0	80.2	75	35.4		
1262	1272	120	15264	122	102	84	61	11	70	50.8	9.2		
1272	1280	96	15360	96	100	76	65	53	79.2	67.7	55.2		
1280	1285	60	SAMPLED										
1285	1293	96	15516	82	85.4	73	62	20	76.0	64.6	20.8		
1293	1303	120	15636	108	90	58	37	8	48.3	30.8	6.7		
1303	1313	120	15756	120	100	86	73	28	71.7	60.8	22.3		
1313	1322	108	15864	108	100	57	24	0	52.8	22.2	7.4		
1322	1329 1/2	90	15954	90	100	49	33	18	59.4	36.7	20		
1329 1/2	1336	75	16032	73	98.6	48	29	0	41.5	37.2	0		
1336	1341	60	16092	50	100								
1341	1351	120	16212	120	100	50	60	19	75	50	158		
1351	1358.5	90	16302	90	100	87	0	0	30	6.7	0		
1358.5	1366	90	16392	90	100	22	10	0	35.6	11.1	0		
1366	1373	84	16476	84	100	25	10	0	29.8	11.9	0		
1373	1376	36	16512	36	100	6	0	0	16.7	11.1	0		
1376	1385	108	16620	108	100	54	49	8	50	45.4	7.4		
1385	1395	120	16740	120	100	85	66	18	70.8	55	15.0		
1395	1405	120	16860	120	100	42	25	8	35	20.8	6.7		
1405	1415	120	16980	120	100	80	59	26	66	49.2	21.7		
1415	1425	120	17100	123	103	49	24	0	39.8	19.5	0		
1425	1435	120	17220	120	100	64	41	8	53.3	34.2	6.7		
1435	1445	120	17340	121	101	69	39	0	57.0	32.2	0		
1445	1455	120	17460	120	100	34	23	9	29.3	19.2	7.5		
1455	1465	120	17580	114	95	74	50	42	61.7	41.7	35		
1465	1475	120	17700	120	100	71	63	44	59.2	52.5	36.7		
1475	1485	120	17820	120	100	66	41	8	55	34.2	6.7		
		1											

BAY 68
17772

BAR
27499

DRILL HOLE LOCATIONS

Scale 1:4800



BAY 56
17760

BAR Fr
27500

BAY 59
17763

DDH ⊙
E-64
1485 ft
-90°

BAY 61
17765

BAY 63
17767

BAY 58
17762

⊙ DDH
E-63
495 ft -90°

BAY 62
17767

BAY 60
17764

UTAH MINES LTD., VANCOUVER B.C.
ISLAND COPPER: EXPLORATION

DRILLHOLE/TRVERSE : DDHEADER

PROJECT IDEN : ISLAND START DATE : 85/12/12 COMPLETION DATE : 85/ 5/27 GEOLOGGED BY : GAC + JAF
 COLLAR NORTHING: COLLAR EASTING : COLLAR ELEVATION: GRID AZIMUTH :
 TOTAL LENGTH : 0.00 CORE/HOLE SIZE : MACHINE TYPE : CONTRACTOR : TONTO

F - I N T E R V A L - K L (UNITS = FT) E A Y 6 F R O M - T O	CORE RECOVERY (FT.1)	% M ROCK TYPE	TYPI- QAL		TEX- MIN TURES		GRAIN FRAC- CHARACS TURE		STRUCTUR-1		ALTERATION MINS					ORE-TYPE MINS												
			TM	TM	TX	TX	F	C	Z	M	T	ID	STK	DIP	A	A	A	A	A	MINS	A	A	A	MIN				
			1	2	QMI	1	2	F	F	C	P	#	TK	1	AZM	RT	QZ	BI	CY	CB	MG	XX	ZZ	PY	CP	GL	YY	SUMMARY
K F E L Y 6	ROCK QUAL DESIG	FOR EN V AGE	RT	TM	Q2	TX	TX	S	R	S	O	DIP	F	T	ID	STK	DIP	KF	MU	CL	EP	HE	ID	ID	PR	MO	SL	ID

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

ROCK CODES U24-27	G SCALE	ALTERATION AND ORE MINERALS	FACIES U77-79
OVER OVERBURDEN	? POSS	QZ QUARTZ	0 FRESH
STKP STIKUP	/ PROB	CY CLAY	1 CHL-EPI
CASN CASING NO CORE	0 0.0%	DU DUMORTIERITE	2 CHL-MAG
MISN CORE MISSING	. 0.0%	KF K-FELDSPAR	3 BIO-CHL
FAUL FAULT GOUGE	- 0.03%	BI BIOTITE	4 MAG-QTZ
SAND SAND (TECTONIC)	(0.1%	BX BRECCIA FRAG	5 PYROPHYLLITE
ISGD ISL GRANODIORITE	* 0.3%	PP PYROPHYLLITE	6 SERICITE
INBX INTRUSIVE BRECCIA) 1.0%	CL CHLORITE	7 SER-CHL
BVAL ANDESITE ?	+ 2.5%	CB CARBONATE	8 K-SPAR
QTZV QUARTZ VEIN	= 5.0%	EP EPIDOTE	9 SILICIC
BVAG BON. AGGLOMERATE	1 10%	MG MAGNETITE	
PPFX FELDSPAR PORPH	2 20%	HE HEMATITE	MINERAL ZONE
BVAT ANDESITE TUFF	3 30%	FL FLUORITE	L 77-79
BVAF ANDESITE FLOW	4 40%	PY PYRITE	0 NEGLIGIBLE
BVAB BRECCIA	5 50%	PR PYRHOTITE	<0.5%
ISDR ISLAND DIORITE	6 60%	CP CHALCOPYRITE	1 PY
BVAN ANDESITE UNDIFF	7 70%	MO MOLYBDENITE	2 PY>CP
KMEA KARMUTSEN BASALT	8 80%	EN ENARGITE ?	3 PY>CP,MO
PPQF QUARTZ FELS POR	9 90%	CV COVELITE	4 PY+MO CP
KMLS KARMUTSEN LST.	X 100%	CC CHALCOHITE	5 PY+CP+CC+BO
BRXX BRECCIA ZONE		FX FELDSPAR	+CV+/-MO
CLAY CLAY ZONE		VF VOLC FRAG	6 PY+BO+CC+CV
ISGD ISL QTZ DIORITE		G1 GILSONITE	+/-MO
MATR MATRIX DESCR.		X1 BRN SER ?	7
PBLS PARSON BAY LST.		X2 SAUSSERITE ?	8 MO
PBSD P.B. SEDIMENTS		X3 WH ZEDLITE ?	
PBTf P.B. TUFFS		X4 GYPSUM ?	
PBVS P.B. SEDS/TUFFS		X5 BRN CHL ?	
PPAN ANDESITE PORPH.		X6 BRN BIO ?	
PPHB HORNGLENDE POR.			
QALS QUATZING LST.			
SKAR SKARN ALT'D			

% MIX IS AMOUNT OF NEST
IN PGI, G SCALE, X I SCALE

UTAH MINES LTD., VANCOUVER B.C.
ISLAND COPPER: EXPLORATION

DRILLHOLE/TRVERSE : DDHEADER (CONTINUED)

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

KEY FLAGS (2-4)	X EXTREME	3 WEAK
	9 V STR-EX	2 V WK-WK
KDX TOP OF OXIDE ZONE	B STR-V STR	1 VERY WEAK
KBOX BOTTOM OF OXIDE	7 STRONG	0 NONE
	6 MOD-STR	* RETURN TO BLANK
	5 MODERATE	
	4 WK-MOD	

H-SCALE HOW OF ALTERATION MINERALS

X MASSIVE	1 MINOR MICROVNS+ SCTD.XT
9 PERVASIVE	0 BARREN
8 DISS, PATCHES>VNS,SEL,ENV	D DISSEMINATIONS
7 DISS, PATCHES=VNS,SEL,ENV	V VEINS
6 DISS, PATCHES<VNS,SEL,ENV	E ENVELOPES
5 VNS +/-OR ABUNDANT ENV	S SELVAGES
4 VNS+/- OR OCCASIONAL ENV	P PERVASIVE
3 VNS = SPOTS+PATCHES	Q PATCHES
2 MICROVEINS + VEINS	C COATINGS
	K STOCKWORK
	U COATING VUGS
	* RETURN TO BLANK

STRUCTURE IDS	STRUCTURE THICKNESS	COLOR	HUE
VQ VEIN QUARTZ	T-SCALE	LIGHTNESS	L29
VP VEIN PYRITE	0 < 1 MM	9 PALEST	W WHITE
VY VEIN PYROPH	1 1-3 MM	8 PALE	A GREY
VC VEIN CLAY	2 3-6 MM	7 LIGHT	U BROWN
VA VEIN QTZ PY	3 6-10 MM	6 MED-LIGHT	T TAN
VM VEIN QTZ MO	4 1-3 CM	5 MEDIUM	G GREEN
F/ FAULT	5 3-6 CM	4 MED-DARK	R RED
C/ CONTACT	6 6-12 CM	3 DARK	O ORANGE
SH SHEAR	7 12-30 CM	2 VERY DARK	N BLACK
SW STOCKWORK	8 30-60 CM	1 DARKEST	B BLUE
BN BANDING	9 60-100 CM	\$ ISH	P PURPLE
VH CPY VN	X >1 M		\$ ISH
VL CALC VN			
BD DEDDING			
VB VEIN CARB			
BR BRECCIATED			
V/ VEIN			
<< MICROVN'D			
VF MAG VN			
VZ VEOLITE VN			

U,L 49-50 U,L 48

	TYPIFYING MINERALS	FRACTURE I.D.
	TM1U28-29 DM1U32-33	F-SCALE
	TM2U30-31 DM2LS2-33	U-45-PYRITE
TEXTURES	TM3L28-29	U-46-QUARTZ
TX1(U35-36)		L-46-DRY FRAC
TX2(L35-36)	QZ QUARTZ	
FP PORPHYRITIC	QX QTZ PHENOS	FRACTURE COUNT

UTAH MINES LTD., VANCOUVER B.C.
ISLAND COPPER: EXPLORATION

DRILLHOLE/TRVERSE : DDHEADER (CONTINUED)

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

P/ VAGUE PORPH	QF QTZ FRAGS	(U,L 44,46)
EQ EQUIGRANULAR	FX FELDSPAR	F-SCALE
FR FRAGMENTAL	BI BIOTITE	1<1/FT
CT CATACLASTIC	HB HORNBLENDE	2 1/FT
VG VUGGY	PX PYROXENE	3 2-3/FT
BR BRECCIATED	MG MAGNETITE	4 4-6/FT
B/ VAGUE BRECCIA	RF ROCK FRAGMENT	5 7-10/FT
KR CRACKLED	VF VOLC FRAGMENT	6 11-18/FT
SH SHEARED	IF INTRUS FRAG	7 19-25/FT
GG GOUGED	VG OPEN SPACE	8 25-50/FT
BD BEDDED	PF PY FRAG	9 >50/FT
CM CHILLED MARGIN	GG FLT GOUGE	X EXTREME
BA BANDED	GA GARNET	
SW STOCKWORK	MX MAFIC PHENOS	

REMARK HEADERS

RALT REMARK, ALTERATION
 RCOL REMARK, COLOUR
 RCON REMARK, CONTACT
 RFRC REMARK, FRACTURE
 RCMP REMARK, COMPOSITION
 RLTH REMARK, LITHOLOGY
 RCDR REMARK, CHANGE OF CORE SIZE
 RMIN REMARK, MINERAL (NON-SULPHIDE)
 RMNZ REMARK, MINERALIZATION
 RSAM REMARK, SAMPLE
 RSTR REMARK, STRUCTURE
 RTXT REMARK, TEXTURE
 RVEN REMARK, VEIN
 RXRD REMARK, X-RAY DIFFRACTION
 RSUM REMARK, SUMMARY
 RPHO REMARK, PHOTO
 STHN REMARK, THIN SECTION

TO J.FLEMING
 FROM J.STEVENSUN
 SUB. D.D. CORE E-64

DEC. 10 1965

TAG#	FOOTAGE	CU%	MO%	FE%	AU PPM	AG PPM
2453	60-70	.10	.003	6.9	<.01	<.01
2454	70-80	.10	.002	5.9	<.01	0.05
2455	80-90	.12	.003	4.8	<.01	<.01
2456	90-100	.10	.003	4.6	<.01	<.01
2457	100-110	.10	.003	4.8	<.01	<.01
2458	110-120	.13	.003	6.1	0.02	<.01
2459	120-130	.13	.002	6.0	<.01	0.08
2460	130-140	.12	.003	4.9	<.01	0.01
2461	140-145	.13	.003	5.2	<.01	0.15
2462	145-150	.24	.005	11.3	0.01	1.50
2463	150-160	.15	.004	5.5	<.01	0.39
2464	160-170	.12	.004	5.0	<.01	0.03
2465	170-180	.11	.003	5.2	<.01	0.49
2466	180-190	.17	.004	6.7	0.02	0.38
2467	190-200	.17	.003	6.7	0.01	0.32
2468	200-210	.15	.005	5.5	0.01	0.05
2469	210-220	.13	.004	7.0	0.01	<.01
2470	220-230	.13	.005	5.5	0.01	0.11
2471	230-240	.19	.004	5.9	0.01	1.36
2472	240-250	.14	.005	5.5	0.01	0.32
2473	250-260	.15	.004	5.9	0.01	0.32
2474	260-270	.14	.004	5.6	0.01	0.35
2475	270-280	.22	.004	8.3	0.01	1.39
2476	280-290	.17	.007	7.6	0.02	0.71
2477	290-300	.12	.004	7.9	0.01	0.25
2478	300-310	.13	.003	8.0	0.01	0.27
2479	310-320	.12	.004	6.6	0.01	0.25
2480	320-330	.14	.004	7.3	0.01	0.36
2481	330-340	.12	.005	8.3	0.01	0.27
2482	340-350	.11	.010	9.1	0.01	0.32
2483	350-360	.11	.006	8.2	0.01	0.21
2484	360-370	.12	.005	8.1	0.01	0.28
2485	370-380	.14	.009	8.6	0.01	0.47
2486	380-390	.12	.007	7.6	0.01	0.29
2487	390-400	.13	.006	7.7	0.01	0.36
2488	400-410	.11	.005	6.1	0.01	0.43
2489	410-420	.11	.006	5.8	0.01	0.53
2490	420-430	.12	.005	7.8	0.01	0.49
2491	430-435	.11	.004	6.6	0.01	0.34
2492	435-440	.14	.006	7.8	0.01	0.49
2493	440-450	.17	.009	6.4	0.01	0.67
2494	450-460	.30	.013	8.1	0.03	1.00
2495	460-470	.19	.008	6.9	0.02	0.97
2496	470-480	.20	.012	5.8	0.02	0.95

2497	480-488	.19	.029	3.9	0.02	0.72
2498	488-495	.29	.011	6.3	0.02	1.89
2499	495-500	.25	.005	8.2	0.04	2.13
2500	500-505	.19	.008	6.8	0.02	1.25
2626	505-510	.20	.004	10.8	0.01	1.31
2627	510-517	.19	.006	8.1	0.04	1.09
2628	517-520	.20	.009	7.5	0.02	1.18
2629	520-524	.19	.014	7.5	0.02	0.98
2630	524-530	.17	.007	7.2	0.02	0.96
2631	530-540	.23	.007	7.4	0.02	1.17
2632	540-543	.21	.024	6.4	0.02	0.73
2633	543-545	.24	.007	7.6	0.03	1.33
2634	545-550	.19	.015	6.0	0.03	0.91
2635	550-560	.23	.042	6.3	0.03	1.01
2636	560-570	.26	.023	6.1	0.04	1.24
2637	570-580	.25	.017	5.9	0.04	1.14
2638	580-590	.23	.016	5.7	0.04	1.09
2639	590-600	.26	.019	7.2	0.04	1.28
2640	600-610	.24	.039	4.5	0.03	1.00
2641	610-620	.26	.019	5.3	0.03	1.27
2642	620-630	.37	.016	7.7	0.05	1.93
2643	630-640	.39	.008	9.7	0.05	2.30
2644	640-650	.22	.012	6.6	0.05	1.42
2645	650-660	.25	.007	7.3	0.03	1.80
2646	660-670	.22	.009	6.6	0.03	1.57
2647	670-680	.28	.023	6.3	0.02	1.55
2648	680-690	.29	.014	6.3	0.02	1.48
2649	690-700	.21	.012	5.8	0.01	1.27
2650	700-710	.22	.017	4.6	0.01	1.06
2680	710-720	.28	.015	5.5	0.03	1.30
2681	720-730	.18	.020	5.0	0.02	0.90
2682	730-740	.21	.009	6.1	0.02	1.13
2683	740-750	.27	.013	6.9	0.04	1.34
2684	750-760	.29	.032	6.4	0.04	1.54
2685	760-770	.20	.010	5.3	0.02	1.02
2686	770-780	.23	.009	5.6	0.01	1.04
2687	780-790	.29	.016	5.6	0.02	1.44
2688	790-800	.22	.021	5.0	0.03	0.96
2689	800-810	.28	.022	5.9	0.03	1.33
2690	810-820	.23	.023	5.0	0.02	1.16
2691	820-830	.29	.012	8.7	0.03	1.37
2692	830-840	.29	.013	10.1	0.05	1.38
2693	840-850	.28	.012	9.9	0.03	1.49
2694	850-860	.26	.031	6.1	0.04	0.76
2695	860-870	.16	.023	6.0	0.02	0.72
2696	870-880	.19	.040	6.0	0.03	0.67
2697	880-890	.17	.025	6.0	0.02	0.76
2698	890-900	.18	.020	6.1	0.02	0.64
2699	900-910	.26	.017	6.1	0.03	1.31
2700	910-920	.30	.028	7.7	0.04	1.55
2702	920-930	.25	.012	6.9	0.02	1.19
2703	930-940	.22	.015	5.6	0.02	1.06
2704	940-950	.29	.013	9.1	0.01	1.22
2705	950-960	.34	.013	11.8	0.06	1.29
2652	960-968	.24	.009	11.7	0.05	1.02

2653	968-970	.11	.006	3.1	0.02	0.27
2654	984-990	.24	.006	6.7	0.06	0.72
2655	990-1000	.20	.013	6.1	0.02	0.92
2656	1013-1020	.36	.010	9.5	0.03	1.28
2657	1020-1030	.07	.005	2.7	<.01	0.04
2658	1060-1070	.07	.007	2.7	<.01	0.06
2659	1100-1110	.08	.005	3.1	0.01	0.09
2660	1140-1150	.09	.005	3.2	<.01	0.11
2661	1180-1190	.08	.005	3.9	<.01	0.07
2662	1220-1230	.07	.004	3.2	<.01	0.10
2663	1260-1270	.08	.005	3.0	<.01	0.12
2664	1295-1305	.07	.006	2.9	<.01	0.08
2701	1320-1330	.14	.062	6.7	0.02	0.66
2665	1340-1350	.15	.039	6.4	0.01	0.93
2666	1280-1290	.07	.004	2.9	<.01	0.10
2667	1350-1360	.14	.013	8.2	<.01	0.87
2668	1360-1370	.16	.015	8.9	<.01	1.25
2669	1370-1380	.13	.012	8.9	<.01	0.90
2670	1380-1390	.11	.038	8.8	0.02	2.11
2671	1390-1400	.10	.011	4.9	0.02	0.55
2672	1400-1410	.07	.006	4.0	0.03	0.22
2673	1450-1460	.07	.004	4.2	0.04	0.20
2674	1470-1480	.08	.004	4.1	0.02	0.13
2675	1480-1485	.07	.004	3.9	0.02	0.13

TO JOHN FLEMING

FROM JIM STEVENSON

SUB. D.D CORE E-63

SEP.27 85

TAG#	FOOTAGE	CU%	MO%	FE%
2277	0-56	.05	.004	4.3
2278	56-65	.06	.006	6.8
2279	65-70	.08	.006	8.2
2280	70-80	.08	.004	8.1
2281	80-90	.08	.005	17.3
2282	90-100	.06	.005	6.9
2283	110-120	.07	.005	6.3
2284	140-150	.05	.005	3.1
2285	190-200	.06	.005	5.3
2286	240-250	.08	.004	5.7
2287	290-300	.07	.005	5.0
2288	330-340	.12	.005	6.4
2289	360-370	.13	.010	4.3
2290	390-400	.11	.005	4.3
2291	420-430	.09	.009	4.6
2292	460-470	.10	.004	6.0

UTAH MINES LTD., VANCOUVER B.C.
DIAMOND DRILLING

DRILLHOLE/TRVERSE : DDHE-063

PROJECT IDEN : ISLAND START DATE : 85/ 9/17 COMPLETION DATE : 85/ 9/20 GEOLOGGED BY : GAC +
COLLAR NORTHING: 15141.90 COLLAR EASTING : 17492.00 COLLAR ELEVATION: 1197.00 GRID AZIMUTH : 0.00
TOTAL LENGTH : 495.00 CORE/HOLE SIZE : NQ MACHINE TYPE : SUPER 38 CONTRACTOR : TONTO

SURVEY FLAG	SURVEY POINT LOCATION	FORESIGHT	AZIMUTH (DEGREES)	VERTICAL ANGLE (DEGREES)	NORTHING	EASTING
000	.0		0.00	-90.00		

R HED *NORTH-WEST ZONE PORPHYRY*HOLE DESIGNED TO TEST THE CONTINUITY
R HED OF WEAK MINERALIZATION IN E-60-62 TO THE SOUTH

F - I N T E R V A L - K L (UNITS = FT) E A Y G F R O M - T O	CORE RECOV- ERY (FT.1)	% M RCK X TYPE	TYPI- FYING 1 2 QM1	QAL MIN 1 2 F F C P	TEX- TURES 1 2 F F C P	GRAIN CHARACS # TK	FRAC- TURE	STRUCTUR-1 ALTERATION MINS										ORE-TYPE MINS				SUMMARY						
								T ID	STK	DIP	A	A	A	A	A	A	A	A	A	A	A		A	A	A	A	A	
K F E L Y G	ROCK QUAL DESIG	FOR MEM AGE	EN V COL	RT D LC-3	TM 3	QM2 3	TX 4	TX D	S N	R H	S /	D SML I	DIP I	F	T ID	STK	DIP	KF	MU	CL	EP	HE	ID	ID	PR	MD	SL	ID

P .0 2.0 STKP P
P 2.0 53.0 OVER P
P 53.0 60.0 FAUL RF SH GG 1 7 J P 82 C4 CY 8=
L 7A 5 C X PB Q2 Q6
R LTH 53.0 60.0 RUBBLE: CORE COMPLETELY SHATTERED.
R LTH 53.0 60.0 PROBABLE SUB-OUTCROP SURFACE IS A FAULT ZONE.
R LTH 53.0 60.0 SOME 20' OF THIS MAY HAVE BEEN TRI-CONED AWAY.
R LTH 53.0 60.0 THE DRILLER WAS UNSURE IF HE WAS IN BEDROCK.
R ALT 53.0 60.0 STRONG SER ALTN A/W FLT, LOCALLY INTENSE.
R ALT 53.0 60.0 SECTIONS WH SER CLAY.

P 60.0 70.0 BVAN EQ I 1 P 0 SH 0 64 23 61 61
L 7A BN 3 0 VP 30 Q2 63 Q3 23
R LTH 60.0 70.0 FG EQL GRANULAR LT GN/GY. PROB BV. BUT OCC BANDING, ESP A/W PY VN
R ALT 60.0 70.0 SER A/W (?) FLT TO 60'.
R ALT 60.0 70.0 WK -MOD PERV SLC'N
R MNZ 60.0 70.0 MOD-STR PY AS FF, VLT TO 3 MM AND OCC PATCHES, OCC A/W CHL ENV.
R MNZ 60.0 70.0 OCC A/W CHL ENV & PATCHES.
R MIN 60.0 70.0 BK GILS (?) IN HEALED FRAC'S.
R MIN 60.0 70.0 PNK (K-SPAR?) IN OCC PATCHES.

P 70.0 80.0 BVAN EQ SW I 1 P 0 SH 0 64 23 ZE GA 62
L 7A BN KR 3 0 VP 30 Q1 61 B4 K3 Q3
R ALT 70.0 80.0 CHL/PY ALTN STRONGEST IN COARSER GRAIN SECTIONS (CLASTS?) TO 3"
R ALT 70.0 80.0 SLCN FAVOURS FG SECTIONS
R MIN 72.0 73.0 BRN (GARNET) STN

P 80.0 90.0 BVAN EQ SW I 1 P 0 SW 0 B4 23 61 6=
L 7A VV KR 3 1 VP 30 Q2 63 Q3 23

UTAH MINES LTD., VANCOUVER B.C.
DIAMOND DRILLING

DRILLHOLE/TRVERSE : DDHE-063 (CONTINUED)

F - I N T E R V A L -			CORE RECDV-ERY (FT.1)	Z M ROCK I X TYPE	TYPI- TM 1	DAL QM1 2	TEX- TX 1	GRAIN S R S D	FRAC- F C % M	STRUCTUR-1 T ID 1	ALTERATION H H H H H ANY	MINS A A A A A MINS	ORE-TYPE A A A A A MIN	SUMMARY
K L (UNITS = FT)	E A	Y 6 FROM - TO												
K F			ROCK	FOR EN RT	TM QM2 TX TX S R S D				DIP F	T ID STK DIP	KF MU CL EP HE ID ID PR MO SL ID			
E L			QUAL	MEM V Q LC- 3	3 4 D N H / SML I					2 AZM RT	H 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 A A			
R ALT	85.0	90.0		STR SLCN C/W GY	PERV QTZ									
N	85.0	90.0		X BVAN						N	B7		=	
P	90.0	95.0		BVAN	" "					P 0 VP	50		61	
L					VV							D5	1	
P	95.0	100.0		MISN						P				
R	95.0	100.0		SPLIT BEFORE LOGGING.										
R	95.0	100.0		REMOVED FROM BOX.										
P	100.0	110.0		PBSD	BN EQ 2 2 2 2					P 1 BN	40 B6	C3	61 6A 6=	
L												Q3	63 Q2	2? 1 =
R LTH	100.0	110.0		LAMELLAR BANDING TO 3 MM	MAY INDICATE PB.									
R STR	102.0	102.5		15 CM HEALED FLT C/W PY/CHL,	GILS, BXA FRAGS TO 3 CM.									
R LTH	104.0	105.0		MASSIVE WH QTZ VN.										
N	104.0	105.0		X QTZV QZ	EQ					N 5 VA	30 99		B+	
L					6W									
R STR	108.0	108.5		HEALED FLT C/W STR SER	ALTD BX A FRAGS TO 2 CM AND GILS TO 2									
R STR	108.0	108.5		CM.										
P	110.0	120.0		PBSD	BN EQ 2 2 2 2					P 1 BN	40 B6	C3	61 6A 6=	
L				7A								Q3	63 Q2	2?
R LTH	111.0	114.0		BRN STN (B10?) COARSER	SECT. C/W ABUND DISS PY									
N	111.0	114.0		X PBSD	J 5 J					N			6A D2	
L				6U								Q2	97	
P	120.0	140.0		PBSD	BN EQ 2 2 2 2					P 1 VB	50 B6	C3	61 6A 6=	
L				7A								Q3 Q3	63 Q2	2?
R LTH	120.0	140.0		RUNS COARSER IMM ALT	SEDS C/W CHL/PY/GILS THROUGHOUT									
N	120.0	140.0		1 PBSD	J 3 J					N			D1	
L												Q4		
P	140.0	160.0		FAUL CB RF GI SH VV						P	B5	B3	X3 61 B=	
L				7A QZ	BR KR							Q2 Q2	K6 P5	
R STR	140.0	243.0		HLY SHRD CORE.										
R STR	140.0	243.0		LOCALLY GOUGY.										
R STR	140.0	243.0		MUDDY, BUT MOSTLY HEALED W. MIN X3.										
R MIN	140.0	243.0		MIN. X3: WH. FG. SOFT (3-4) HCL-FRAC	FLNG MATERIAL.									
R LTH	140.0	243.0		ONLY ORIG FRAGS IN FLT ARE FG V	LT 6N BLEACHED SLCD NON-BANDED									
R LTH	140.0	243.0		SEDS.										
R STR	140.0	160.0		COMPETENT BUT SOFT ROCK-CORES	TO F120 CM UNBROKEN.									
R MIN	140.0	243.0		MINERAL PROBABLY WH ZEO.										
R MIN	140.0	243.0		ACTS AS CEMENT IN FLT ZONE.										
N	140.0	160.0		3 PBSD	SW EQ 2 H 1					N	P5	22	D+	

UTAH MINES LTD., VANCOUVER B.C.
DIAMOND DRILLING

DRILLHOLE/TRVERSE : DDHE-063 (CONTINUED)

F - INTERVAL -		CORE RECDV-ERY (FT.1)	X M ROCK I X TYPE	TYPI- QAL FYING TM 1 2 QM1	TEX- MIN TX 1 2 F F C P	GRAIN CHARACTURE	STRUCTUR-1 T ID STK DIP	ALTERATION H H H H H ANY	MINS A A A A A MINS	ORE-TYPE H H H ANY	MINS A A A MIN	SUMMARY
K L (UNITS = FT)	Y G F R D M - T D											
K F		ROCK	FOR EN RT	TM QN2 TX TX S R S D	DIP F	T ID STK DIP	KF MU CL EP HE	ID ID PR MO SL	ID			
E L		DUAL	MEM V Q LC- 3	3 4 0 N H / SML	I	2 AZM RT	H H H H H H 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 A A A A A A				
L												65
R ALT	267.0	279.0										
R MNZ	279.0	280.0										
P	280.0	290.0		PBSD	BN EQ 2 2 2	P 1 SW	84	62	ZE GA 8=			
L				7G		4 1 BD	60	Q2 B3 Q1	23 E3			
R STR	280.0	290.0										
R MNZ	280.0	290.0										
R ALT	280.0	290.0										
R MIN	280.0	300.0										
N	280.0	284.0		X PBTf	UF EQ 2 H 6 I	N 1 SW	84	62	ZE GA 8=			
L				7G		4 1 BD	60	Q2 B3 Q1	23 E3			
P	290.0	300.0		PBSD	BN EQ 2 2 2	P 1 BD	60 95	64	61 GA 8=			
L				7G		4 1 BD	60	Q2 B3 Q1	22 E3			
P	300.0	313.5		PBSD	VV EQ 2 2 2	P 0 <<	40	62	ZE GA 8=			
L				7G		4 1 BD	60	Q2 B3 Q1	23 E3			
R STR	300.0	310.0										
R ALT	300.0	313.5										
R SAM	301.0	306.0										
N	301.0	306.0		X MIGN		N			6=			
P	313.5	320.0		PBTf	UF VV 2 H 5 I	P 0 VP	50 94	24	61 GA 8=			
L				UG		3		95	23 Q3			
R ALT	313.5	330.0										
P	320.0	330.0		PBTf	UF VV 2 H 5 I	P 0 VP	50 94	24	61 GA 8=			
L				UG		3		95	23 Q3			
R MIN	325.0	326.0										
P	330.0	340.0		PBSD	EQ BN 2 2 4	P 0 VZ	40 95	C2	ZE GA 8= 2*			
L				4G				Q1 B3	V3 Q2			
R LTH	330.0	340.0										
N	334.6	335.0		X PBSD	EQ BN 2 2 4	N 1 V/	25 95	C2	ZE GA V5 V1			
L				4G				Q1 B3	V3 Q2			
N	336.5	337.5		X PBSD	EQ BN 2 2 4	N 0 VZ	40 95	C2	ZE GA 82 2*			
L				4G				Q1 P7	V3 Q2			
P	340.0	350.0		PBSD	EQ BN 2 2 4	P 1 BN	60 96	C2	61 GA 6= 6<			
L				4G				Q1 B2	24 Q2			
R MIN	340.0	350.0										
R MIN	340.0	350.0										
R STR	340.0	350.0										

BRN PERV ALT'N MAY BE GARNET. GILS ALONG FRACS-V'BLACK.
PROB ZNS/PY VLT.

BANDING PRD3 REP ALT'D BG.
OCC ZN/PY VLT TO 2 MM.

BRN GARN FAVOURS SOME BANDS.
V MINOR EPI AS HAIR-LIKE VLTS AND BLEBS.

BANDING NOT PROMINENT - SLCN, CHL A/W VNS MASKS IT.
NMRS VLT PY/CHL, OFTEN W MINOR EPI @ 60 DEGREES TO AXIS.
SAMPLED BEFORE LOGGING.

BRN (GARN) PERV. CHL + PY AS VLTS.

1 MM WH RD SPOTS (FSP PHENO'S?).

INTO WKLY BANDED F6 SLC D ARG (?).

GILS TO 5 MM IN VLTS.
OCC TARRY (LIQUID).
MOD. BANDING @ 60 DEGREES TO AXIS.

UTAH MINES LTD., VANCOUVER B.C.
 5000 000148500 360.00-90.00

DRILLHOLE/TRAVERSE : DDHE-064

PROJECT IDEN : ISLAND START DATE : 85/11/13 COMPLETION DATE : / / GEOLOGGED BY : JAF +
 COLLAR NORTHING: COLLAR EASTING : COLLAR ELEVATION: GRID AZIMUTH : 0.00
 TOTAL LENGTH : 1485.10 CORE/HOLE SIZE : NQ MACHINE TYPE : SUPER 38 CONTRACTOR : TONTO

R HED HOLE DRILLED NORTH-WEST OF-E-63
 R HED NOTE:TWO INTERVALS IN THIS HOLE WERE MIS-LABELLED BY
 R HED DRILLERS,SO THE HOLE IS ACTUALLY 20 FT SHORTER THAN INDICATED.
 R HED MIS-LABELS ARE AT 463 FEET AND 896 FEET (LABELLED AS 473 AND
 R HED 906 FEET). GAC

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 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	MINS	A	A	A	MIN				
Y G F R O M - T O		(FT.1)	X	TYPE	1	2	QM1	1	2	F	F	C	P	#	TK	1	AZM	RT	QZ	BI	CY	CB	MG	XX	ZZ	PY	CP	GL	YY	SUMMARY

K	F	ROCK	FOR	EN	RT	TM	QM2	TX	TX	S	R	S	D	DIP	F	T	ID	STK	DIP	KF	MU	CL	EP	HE	ID	ID	PR	MO	SL	ID						
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	G	DESIG	AGE	COL						R	D	P	C			STRUCTUR-2				A	A	A	A	A	A	A	A	A	A							
P	STK	.0	2.0			STKP																														
P	QVB	2.0	62.0			OVER																														
P	L	62.0	70.0			PBTF		FR		3	B	H		P	2	VZ	20					V3		ZE	X5	7=	7*	X4								
R	LTH	62.0	80.0			UG								C	6							P5		V3	E5	C1	V2	3 =								
R	ALT	62.0	80.0			BROWNISH-GREENISH-GREY,COARSE ASH TUFF-ANDESITIC																														
R	ALT	62.0	80.0			PATCHY-PERV. REDDISH-BRN. ALT'N GEN. MOD. INTENSITY WITH SCATT'D																														
R	ALT	62.0	80.0			WHITE, SERICITE ALT'N BANDS AS ALT'N ENVELOPES ON PYRITE																														
R	ALT	62.0	80.0			VEINLTS.																														
R	MNZ	62.0	80.0			PYRITE OCCURS AS SMALL CLOTS TO 2 MM DIA AND FINE																														
R	MNZ	62.0	80.0			DISSEMINATIONS.																														
R	VEN	62.0	80.0			WHITE ZEDLITE AND CALCITE VEINLETS TO 5 MM THK.																														
P	L	70.0	80.0			PBTF		FR		3	B	H		P	2	VZ	20					V3		ZE	X5	7=	7*	X4								
R	ALT	70.0	80.0			UG								C	6							P5		V3	E5	C1	V2	3 =								
R	SAM	78.0	78.2			INCREASED BROWN ALT'N - LABELLED MINERAL X5																														
R	SAM	78.0	78.2			LIGHT SERICITE ALT'N ENVELOPE ASSOC. WITH PYRITE VEINLETS TO 5																														
R	SAM	78.0	78.2			MM.																														
P	L	80.0	90.0			PBSD		BD		2	3	B	H		P	2	BD	80	P5			V3		ZE	X5	7=	7*	X4								
R	VEN	80.0	80.5			7A								7	C	6	2	BD	70				V3		V3	G5	C1		3 =							
R	VEN	80.0	80.5			GREY,SOFT VEIN PLUS CALC CUT BY ZED AND CALC. VNS. GREY VEIN																														
R	VEN	80.0	80.5			CALLED X4 IS PROBABLY GYPSUM - PRODUCES H2O HEATED IN CLOSED																														
R	VEN	80.0	80.5			TUBE.																														
R	LTH	80.0	102.0			REDDISH-BROWN ALTERED, SILIC, PYRITIC, THIN, BEDDED, FINE SAND																														
R	LTH	80.0	102.0			SIZE.																														
R	ALT	80.0	102.0			SEDS V-HARD-PROBABLY SILICIFIED. BRN ALT'N AFFECTS CERTAIN																														
R	ALT	80.0	102.0			BEDS,PROBABLY MORE CALCAREOUS SEDIMENTS.																														
R	COL	80.0	102.0			CORE LIGHT GREY, GREEN WITH REDDISH-BROWN BANDS AND STREAKS.																														
R	MNZ	80.0	102.0			PYRITE VEINLETS TO 4 MM WITH OR W/O WHITE SELVAGES, +/-																														
R	MNZ	80.0	102.0			CALCITE.																														
P	L	90.0	100.0			PBSD		BD		2	3	B	H		P	2	BD	70	P5			V3		ZE	X5	7=	7*	X4								

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DRILLHOLE/TRVERSE : DDHE-064 (CONTINUED)

F - INTERVAL -		CORE RECOVERY (FT.1)	% ROCK I X TYPE	TYPI- QAL TM 1	TEX- FING MAT 2	GRAIN CHARACS TX 1	FRAC- TURE F C % M 2	STRUCTUR-1 T ID 1	ALTERATION H H H H H A A A A A	MINS ANY XX ZZ	ORE-TYPE H H H H H A A A A A	MINS ANY MIN	SUMMARY
K L (UNITS = FT)	Y G FROM - TO												
R VEN	400.0	460.0	RK LACED WITH 1-4 MM THK WT ZED +/- CALC VNLTs GEN AT 0, 30 DEG.										
R VEN	400.0	460.0											
R THN	409.0	409.0	SECT ACROSS THIN, MULTICOLOURED BEDS.										
P L	410.0	420.0	PBSD	BD G;			P 2 BD 60		V2	ZE X5 6+			
R SAM	410.0	410.4	SHOWS DISPL'D BDS.										
P L	420.0	434.0	PBSD	BD G;			P 5 SH 45		V2	ZE X5 6+		X5	
R MIN	420.0	421.0	AU				3 2 BD 60		P2	L7 P2			
R ALT	420.0	434.0	BLACK, SOOTY CARBON IN FRACT'S IN BXA'D SEDS.										
R ALT	420.0	434.0	REDDISH BRN ALT'N V-STRG AT LOWER PART OF INTERVAL - BDG STILL VIS.										
R VEN	420.0	440.0	CALC VEIN MORE ABD IN TUFF THAN ALT'D SEDS.										
R THN	428.0	428.0	STRONG BRN-RED ALT'N OF BDS.										
P L	434.0	440.0	PBTF	FR	F B G		P 5 SH 35		V4	ZE 7=			
P L	440.0	451.0	PBTF	FR	F B G		P 3 VZ 40		V4	ZE 7=			
P L	451.0	460.0	SKAR	BR			P		V5	LA 61 71			
R CON	451.0	455.0	OG						07	V5			
R VEN	451.0	460.0	STRONG EPI, PYR, CALC, ZED ALT'N AT CONTACT BTW SEDS AND TUFF.										
R ALT	451.0	453.0	WT CAL VNS (TO 5 MM) CUT PYR, EPI VNS.										
P L	460.0	470.0	PBSD	BD			P 2 BD 75					7(
P L	470.0	480.0	PBTF	FR	H 5 J		P 2 VZ 25 P4		V4	ZE 7) 7(
R CON	470.0	470.1	7A		D		3 1 SH 20	E4	E2	V4			
R ALT	470.0	500.0	SHARP, CONTACT AT 75 DEG.										
R ALT	470.0	500.0	STRG ORANGE ALT'N ENV TO 5 MM THK ON PYR, CARB VNLTs.										
R SAM	477.0	477.8	LT ALT'N ENVS ON PYR VNS - PROB SERICITE.										
P L	480.0	490.0	PBTF	FR	H 5 J		P 1 SH 20 P4		V4	ZE 6+ 7(
R MIN	485.0	495.0	80		D		3 1 SH 20	E4	75	V4	2-		3 +
R MNZ	485.0	495.0	SAMPLED (CHUNK) IN FIELD FOR ASSAYS.										
P L	490.0	500.0	PBTF	FR	H 5 J		P 2 VZ 25 P4		V4	ZE 7) 7(
			THIN, BLACK, SOOTY CARBON ON FRACTS.										
			MGLY BLERS TO 4 MM IN ZED, PYR, & CALC VEINS.										

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DRILLHOLE/TRVERSE : DDHE-064 (CONTINUED)

F - INTERVAL - K L (UNITS = FT) E A Y 6 FROM - TO		CORE RECDV- ERY (FT.1)	% M ROCK I X TYPE	TYPI- GAL FYING MIN TM TM MAT	TEX- TX TX 1 2	GRAIN CHARACS F C % M	FRAC- TURE # TK	STRUCTUR-1 T ID STK DIP 1 AZM RT	ALTERATION MINS H H H H H ANY A A A A A MINS	ORE-TYPE MINS H H H ANY A A A MIN	SUMMARY
K F E L Y 6		ROCK QUAL DESIG	FOR EN RT MEM V D LC- AGE	3 3	TX TX 3 4	S R S D D N H / R D P C	DIP F SML I	STRUCTUR-2 T ID STK DIP 2 AZM RT	KF MU CL EP HE ID ID H H H H H H H H A A A A A A A A	PR MO SL ID H H H H H H H H A A A A A A A A	
P L R SAM	550.0 560.0 559.0		PPHB MX FX HB1 PP 5G FX2	2 J 7 K C			P 2 VZ 3 4 VM	80 V1 90	V4 P3 ZE P4 64 V4	7+ 7(V- P)	5 +
SHOWS MAFIC AND FELD PHENOS PLUS PYR, CALC, EPI VEINS.											
P L R MNZ R VEN	560.0 570.0 564.0 592.0		PPHB MX FX HB1 PP 6A FX2	2 J 7 K C			P 4 VQ 3	90 V1	V4 P2 ZE P4 64 V4	7+ 7(V- P)	5 +
LT GRN MALACHITE STAIN IN QTZ VN. QTZ VNS GEN GRY BRAINS IN FROSTED WT MATRIX - SAME AS AT 517 FT.											
P L	570.0 580.0		PPHB MX FX HB1 PP 5G FX2	2 J 7 K C			P 3 VM 3	35 V3	V4 P2 ZE P4 64 V4	7+ 7(V- P)	5 +
P L	580.0 592.0		PPHB MX FX HB1 PP 3G FX2	2 J 7 K C			P VM 3	V1	V4 P2 ZE P4 64 V4	7+ 7(V- P)	5 +
P L R LTH R LTH R LTH	592.0 600.0 592.0 615.0 592.0 615.0 592.0 615.0		PBVS 4G	BD C	6 7 H C		P 2 BD 2	80 V3	V4 ZE P5 62 V4	7+ 7(V-)	
LT GRN, TO DK GRN AND WT BANDED, THIN BDD 2 MM - 2 CM, FINELY LAMINATED RK. LOOKS LK BDD TUFF - THUS CALLED PBVS - IE UNDIFFERENTIATED P.B.											
P L R TXT R SAM	600.0 610.0 600.0 604.5		PBVS 4G	BD C	6 7 H C		P 3 VZ 3 3 BD	0 V3 80	V4 ZE P5 63 E4	71 7(V-)	X5
BDS CONTORTED - MINOR BXX'N. STRG GREASY BRN STAIN.											
P L	610.0 620.0		PBVS 4G	BD C	6 7 H C		P 3 BD 3	85 V3	V4 ZE P5 64 V4	7+ 7(V-)	
P L	620.0 630.0		PBVS 6A	BD BR C	6 7 H C		P 4 VM 3	55 V3	V4 ZE P5 62 V5	7+ 7(V-)	
P L N L N L R SAM	630.0 640.0 630.0 631.0 634.0 635.0 637.0 637.5		PBVS 4G X PBVS 3G X PBVS SA	BD C BD C BD C	6 7 H C 6 7 H C 6 7 H C		P 2 BD 3 N 2 BD 2 N 2 BD 2	80 V3 80 V3 80 V3	V4 ZE P5 64 V4 V4 77 ZE P5 64 V4 V4 75 ZE P5 64 V4	7+ 7(V-) P2 7(V- P1 P3 7(V-	
SHOWS BANDING/BDD IN TUFFACEOUS (?) RK											
P L R TXT	640.0 650.0 640.0		PBVS 6A	BD SH C	6 7 H C		P 1 SH 3 2 BD	50 V3 75	V4 ZE P5 64 V4	7- 7(V-	
BEDDING IS VAGUE EXCEPT FOR SHORT RUNS OF THIN BDD RK.											

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DRILLHOLE/TRVERSE : DDHE-064 (CONTINUED)

F - INTERVAL -		CORE RECDV-ERY (FT.1)	% M ROCK I X TYPE	TYPI- QAL FYING MIN TM 1 2 QM1	TEX- TURES TX 1 2 F F C P	GRAIN FRAC- CHARACS % M	STRUCTUR-1 ID 1	ALTERATION H H H H H ANY	MINS A A A A A	ORE-TYPE MINS H H H ANY	SUMMARY
K L (UNITS = FT)	Y G FROM - TO										
K F		ROCK	FOR EN RT	TM QM2 TX TX 3 4	S R S O DIP F		T ID STK DIP	KF MU CL EP HE ID ID	PR MO SL ID		
E L		QUAL	MEM V Q LC- 3		D N H / SML I		2 AZM RT	H H H H H H 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 A A A A A A		
L			GA		C	2		P5 64 C5 V5	V-	V3	
R ALT	730.0	740.0	BRICK RED HEM COATS SHEARS.								
R SAM	735.0	735.5	RED HEM ON SHEAR.								
P	740.0	750.0	PBVS	BD	6 7 H	P 3 BD	70 V3	V5	ZE G1 7+	7(-)	
L			GA		C	3	2 BD	60	P5 60	V5 V3	V-
P	750.0	760.0	PBVS	BD KR	6 7 H	P 2 SH	30 V3	V4 77	ZE	7=	7(-)
L			3G	SH	C	3	2 BD	00	P5 64	V4	V-
R STR	750.0	763.0	HIGHLY DEFORMED RK - SOME REMN BDD AT LOW ANG. TO CORE.								
R STR	750.0	763.0	ABD CHL ON SHEARS. CALC AND ZED HEAL MULT FRACTS. RK MORE								
R STR	750.0	763.0	SHATTERED THAN BRECCIATED.								
P	760.0	763.0	FAUL RF	SH 6G		P 6 F/		V6		7+	
L						X		PB 64			
P	763.0	780.0	PBVS	KR BD	F 8 G	P 2 BD	80 B3	V5	ZE	7+	
L			GA		C	3	4 VQ	60	P3 63	V5	
R VEN	763.0	763.0	WHITE CALC, ZED AND QTZ VNS ABD - COMP ABT 5-10 % - STOCKWORK.								
P	780.0	790.0	PBVS	KR BD	F 8 G	P 2 BN	50 B3	V5	ZE	7+	
L			GA		C	3	2 SW	60	P3 63	V5	
P	790.0	800.0	PBVS	KR BD	F 8 G	P 3 VM	40 B3	V5	ZE	7+	
L			GA		C	3	5 SH	15	P3 63	V5	
P	800.0	810.0	PBVS	KR BD	F 8 G	P 1 \$\$	15 B3	V5	ZE	7+	
L			4G		C	3	3 VM	80	P3 63	V5	
P	810.0	820.0	PBVS	KR BD	F 8 G	P 3 VM	0 B3	V5	ZE	7+	
L			4G		C	3	4 VQ	60	P5 63	V5	
P	820.0	830.0	PBVS	KR SH	F 8 G	P 2 BD	80 B3	V6 85	LA	7+	
L			4G		C	3	4 VQ	60	P5 63	V6	
R VEN	820.0	820.0	RK LACED WITH WT CALC VEINS L MM TO L CM THK, PLUS IN SHEARS								
R VEN	820.0	820.0	AND WHITE QTZ-CARB VEINS TO 3 CM THK (SAMPLED 860 FT).								
P	830.0	840.0	PBVS	KR BD	F 8 G	P 2 BD	80 B3	V6 87	LA	7+	
L			3G		C	3	4 VQ	60	P5 63	V6	
P	840.0	850.0	PBVS	KR SH	F 8 G	P 2 \$\$	30 B3	V7 68	ZE	7+	
L			4G	KR BR	C	7	5 F/	60	P3 62	V4	
R SAM	842.0	842.3	STRG MAG'N ALT'N + OLIVE GRN MINERAL.								
P	850.0	855.0	PBVS	KR BD	F 8 G	P 2 SW	80 B3	V5	ZE	7+	

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DRILLHOLE/TRVERSE : DDHE-064 (CONTINUED)

F - INTERVAL - K L (UNITS = FT) E A Y G FROM - TO	CDRE RECOV- ERY (FT.1)	X M ROCK I X TYPE	TYP1- QAL		TEX- TURES		GRAIN CHARACS		FRAC- TURE		STRUCTUR-1		ALTERATION MINS					ORE-TYPE MINS					SUMMARY										
			TM	TM	TX	TX	F	C	Z	M	T	ID	STK	DIP	A	A	A	A	A	ANY	H	H		H	ANY	H	H	H	ANY				
			1	2	Q	M1	1	2	F	F	C	P	#	TK	1	AZM	RT	QZ	BI	CY	CB	MG	XX	ZZ	PP	CC	GL	YY					
			ROCK	FOR	EN	RT	TM	Q	M2	TX	TX	S	R	S	D	DIP	F	T	ID	STK	DIP	KF	MU	CL	EP	HE	ID	ID	PR	MO	SL	ID	
			QUAL	MEM	V	Q	LC-	3		3	4	O	N	H	/	S	M	L	1	2	AZM	RT		H	H	H	H	H	H	H	H	H	H
			DESIG	AGE		COL					R	D	P	C									A	A	A	A	A	A	A	A	A	A	
L						GA						C		3		4	SH					40		P3	63		V5						
P	855.0	870.0				PBTF					EQ	KR	H	B	I	P	3	VB				40	V5		V6	80	ZE	X6	71				
L						GA					SH			C		7	2	SH				00		P5	61		V5	P5		C-			
R	855.0	900.0	RIL CHANGES TEXT TO COARSER BUT MORE X'AL LOOKING - POSS. ANDES																														
R	855.0	900.0	DIKE.																														
R	855.0	900.0	PERV BROWN - ALT'N AS SPOTS THRO RK.																														
R	855.0	900.0	MOLY SKINS AND QTZ - MOLY VIS.																														
R	858.0	858.3	BLK CARBON IN QTZ-CARB VN.																														
R	862.0	862.0	BRN SPOTS (?) - BID (?) - CALLED (X6).																														
P	870.0	880.0				PBTF					EQ	KR	H	B	I	P	3	VM				40	V5		V6	80	ZE	X6	71				
L						GA					SH			C		7	3	VB				00		P5	61		V5	P5		C-			
R	870.0	880.0	ZEO-CARB VEINS CUT QTZ - MOLY AND QTZ CARB VNS.																														
P	880.0	890.0				PBTF					EQ	KR	H	B	I	P	3	SW				40	V5		V6	80	ZE	X6	71				
L						GA					SH			C		7	2	SH				00		P5	61		V5	P5		C-			
P	890.0	900.0				PBTF					EQ	KR	H	B	I	P	2	SW				40	V5		V6	80	ZE	X6	71				
L						GA					SH			C		7	2	SH				00		P5	61		V5	P6		C-			
R	896.0	896.3	TYPICAL WITH BRN, SPOTTY ALT'N.																														
P	900.0	910.0				PBTF					KR					P	2	SW				V4		V5	86	ZE		7+	7*				
L						4G										3							P5		V5		V5		C-				
R	900.0	900.0	STRG BRN SPOTTY ALT'N (X6 MINERAL) PROB. BIO.																														
R	900.0	970.0	DIFF FROM ABOVE - MORE TUFFACEONS;																														
R	900.0	920.0	MOST OF ZEO-CARB VNS ORANGE TINTED; QTZ VNS GEN WT-GREY.																														
P	910.0	920.0				PBTF					KR					P	2	SW				V4		V5	86	ZE		7+	7*				
L						4G										3							P5		V5		V5		C-				
P	920.0	930.0				PBTF					KR					P	2	SW				V4		V5	86	ZE		7+	7*				
L						4G										3	2	VQ				30		P5		V5		V5		C-			
P	930.0	940.0				PBTF					KR					P	3	VZ				0	V4		V5	86	ZE		7+	7*			
L						4G										3	2	SW						P5		V6		V6		C-			
R	930.0	950.0	ZEO VNS PINKISH AND X'AL WITH CALC.																														
P	940.0	950.0				PBTF					KR					P	2	SH				20	V4		V5	86	ZE		7+	7*			
L						4G										3							P5		V5		V5		C-				
R	940.0	940.5	CHL-MAGN ALT'D VOLC. CUT BY QTZ-CARB AND PYR VEINS.																														
P	950.0	960.0				PBTF					KR	SH				P	2	SH				40	V4		V6	88	ZE		7+	7*			
L						3G										3								P7		V5		V5		C-			

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DRILLHOLE/TRVERSE : DDHE-064 (CONTINUED)

F - INTERVAL -			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	T	ID	STK	DIP	A	A	A	A	A	A	MINS	A	A	A	A	MIN						
E A			ERY	I	TM	TM	MAT	TX	TX	F	C	%	M	#	TK	1	AZM	RT	QZ	BI	CV	CB	MG	XX	ZZ	PY	CP	GL	YY	SUMMARY		
Y 6 FROM - TO			(FT.1)	X	TYPE	1	2	QM1	1	2	F	F	C	P	#	TK	1	AZM	RT	QZ	BI	CV	CB	MG	XX	ZZ	PY	CP	GL	YY	SUMMARY	
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K F			ROCK	FOR	EN	RT	TM	QM2	TX	TX	S	R	S	D	DIP	F	T	ID	STK	DIP	KF	MU	CL	EP	HE	ID	ID	PR	MO	SL	ID	
E L			QUAL	MEM	V	Q	LC-	3	3	4	D	N	H	/	SML	I	2	AZM	RT													
Y 6			DESIG	AGE	COL						R	D	P	C																		
R CON	957.0	958.0	A FINE GRN'D (1-3 MM CLASTS) BXX OCCURS AT CONTACT WITH PPQF.																													
N	958.0	960.0	X	PPQF	QX	FX				PP																						
L					QA	MX																										
P	960.0	968.0			PBTf					KR						P	2	VT		90	V4			V6	B8	ZE		7+	7*			
L						46											3							P9	V3		V3				C-	
R THN	964.0	964.0	INT.FN GRN'D, OLIVE GRN ALT'D (PROB CHLORITE).																													
R VEN	965.0	966.0	THIN (1 MM) SMS OF BLK, SOOTY CARBON.																													
P	968.0	983.5			PPQF	QX	FX	MX+																	V3		ZE		8)		6I	
L						AN	MX	FX2																P2	P3		V3			C/	V2	
R SAM	976.5	977.0	QTZ-FELD PORPHYRY.																													
P	983.5	1008.0			PBTf	VF	MF			FR																V6	B4	ZE		7+		
L						56	XF																		P5		V5					
R CON	983.5	983.8	BAND OF FINE (1-4 MM FRAGS) BXX AT 40 DEG. AT CONTACT.																													
R TXT	983.5	1003.0	A LITHIC-CRYSTAL TUFF W UP TO 3% MAGN ALT'D MAFIC X'ALS IN																													
R TXT	983.5	1003.0	POORLY SORTED TUFF MTRX - LOOKS AT FIRST LK HBL PORPHYRY.																													
R LTH	1000.0	1299.0	THE QFP IS TYPIFIED BY MAFIC PHENOS TO 2 CM LONG, COMMONLY																													
R LTH	1000.0	1299.0	TWINS AND INTERGROWN WITH QTZ PHENOS. QTZ EYES TO 1.5 CM . .																													
R LTH	1000.0	1299.0	QTZ AND FELD PHENOS COMP 60-75% OF ROCK WITH THE % OF PHENOS-																													
R LTH	1000.0	1299.0	QTZ AND FELD VARYING AS: QTZ 5-15%, FELD 40-50%, MAFICS <5%																													
R LTH	1000.0	1299.0	COLOUR VARIETY (ORANGE,GRN, GRY) IS DUE MAINLY TO ORANGE ZEO																													
R LTH	1000.0	1299.0	ENV ON ZEO-CARB VNLTs, PINK CARB STAIN OF MATRIX AND LT GRN																													
R LTH	1000.0	1299.0	SERICITE ASSOC WITH PY VNLTs AND SHEARS.																													
R LTH	1000.0	1299.0	SCATT BOOKS BLK BID NOTED FROM ABT 1100 FEET.																													
N	1000.0	1001.0	X	PPQF	QX	FX	MX+																									
L						RA	MX	FX7																								
N	1001.0	1005.0	X	PBTf	VF	MF				FR																V3	B8	ZE		7=		
L						AN	XF																		P5		V2					
R ALT	1005.0	1008.0	STRG BRN. FN GR SKARNY ALT'N																													
N	1005.0	1008.0	X	PBTf	VF	MF				FR																V3	B8	ZE	X5	72		
L						GU	XF																			P2		V2	P8		P+	
R THN	1006.0	1006.0	SKARNY LOOKING, FN GRN'D, BRN ALT'D.																													
P	1008.0	1020.0			PPQF	QX	FX	FX1	PP	SU							P	3	SH		50				V4		ZE		8)			
L						DA	MX	MX)	KR									3		3	SH		30		P3	P2		B6				
R LTH	1008.0	1020.0	ORANGE ZEO STAINED QFP WITH QTZ PHENOS TO 15 MM AND FELD COMP																													
R LTH	1008.0	1020.0	UP TO 60% RK MICROFRACT'D AND VEINED, CHL ALT'D PHENO'S TO 2																													
R LTH	1008.0	1020.0	CM.																													
P	1020.0	1030.0			PPQF	QX	FX	FX1	PP	SU																V4		ZE		8)		
L						RG	MX	FX2	KR																	P3	P2		B6		V1	
R MNZ	1020.0	1023.0	SPHALERITE WITH CALC IN SHEAR.																													

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DRILLHOLE/TRVERSE : DDHE-064 (CONTINUED)

F - I N T E R V A L -			CORE RECOV-ERY (FT.1)	Z M ROCK I X TYPE	TYPI- F Y I N G M AT 1 2 Q M 1	QAL TEX- T X T X 1 2 F F C P	GRAIN FRAC- CHARACS TURE # TK	STRUCTUR-1 T I D STK DIP	ALTERATION H H H H H ANY	MINS A A A A A MINS	ORE-TYPE H H H ANY	MINS A A A MIN	SUMMARY
K L (UNITS = FT)	E A Y 6	F R O M - T O											
P L	1180.0	1319.0		PPQF	QX FX FX1	PP SU	K B N	P 1 SH	0	V4	ZE	8)	
L					GD MX MX)	KR	C	3		P3 P2	86		
N L	1180.0	1226.0		4 PPQF	QX FX FX1	PP SU	K B N	N		V4	ZE	8)	
L					RG MX MX)	KR	C	3		P3 P2	86		
N L	1180.0	1200.0		9 BVAN	QX FX FX1	PP SU	K B N	N		V4	ZE	8)	
L					DA MX MX)	KR	C	3		P3 P2	86		
R STR	1226.0	1235.0		SHEARED, BXX'D, LIMY, SERIC ALT'D QFP - ROCK SOFT, FRIABLE.									
N L	1226.0	1235.0		X PPQF	QX FX FX1	PP SU	K B N	N 6 F/	25	V5	ZE	Q+	
L					DA MX MX)	KR SH	C	B 6 F/	30	P7 P6	86		
R TXT	1245.0	1255.0		QFP SHATTERED WITH BLK GRAPHITE (?) COATING ON FRACTS.									
N L	1245.0	1255.0		X PPQF	QX FX FX1	PP SU	K B N	N		V4	ZE	8)	
L					DA MX MX)	KR KR	C	5		P3 P2	86		
R SAM	1248.0	1248.3		BLK. SHINY COATING ON SLIP.									
N L	1260.0	1269.0		X PPQF	QX FX FX1	PP SU	K B N	N		V4	ZE	8)	
L					DA MX MX)	KR	C	3		P3 P2	86		
N L	1269.0	1275.0		X PPQF	QX FX FX1	PP SU	K B N	N 4 VP	20	V4	ZE	71	X7
L					4A MX MX)	KR SH	C	3		P7 P4	C5		
N L	1275.0	1280.0		X PPQF	QX FX FX1	PP SU	K B N	N		V4	ZE	8)	
L					DA MX MX)	KR	C	3		P3 P2	86		
N L	1280.0	1288.0		X PPQF	QX FX FX1	PP SU	K B N	N		V4	ZE	8)	X7
L					DA MX MX)	KR SH	C	3		P3 P2	C5		
N L	1295.0	1299.0		X PPQF	QX FX FX1	PP SU	K B N	N		V4	ZE	8)	X7
L					OG MX MX)	KR	C	3		P3 P2	86		X4
R MNZ	1303.0	1303.3		BLACK, SOFT MINERAL WITH BRN STRK.									
R SAM	1303.0	1303.3		SAMPLE OF BLACK, SOFT MATERIAL.									
N L	1305.0	1319.0		X PPQF	QX FX FX1	PP SU	K B N	N 5 VM	50	V4	ZE	8)	
L					RG MX MX)	KR	C	3		P3 P2	86		
P L	1319.0	1395.0		PBTF		EQ SW	F B H	P		V5	V4 74 ZE	7*	X6
L					56		C	4			P4 V2 V4	2-	P5
R	1319.0	1395.0		BRN SPOTTY ALT'N SAME AS LOGGED FROM 855-900 (X-6 PROB.=BID).									
N L	1319.0	1329.0		X PBTF		EQ SW	F B H	N 3 SH	40 V5	V4 74 ZE	7*	X6	
L					56		SH \$\$	C	8		P4 V2 V4	2-	P5
N L	1329.0	1340.0		X PBTF		EQ SW	F B H	N 3 VM	40 V5	V4 87 ZE	7*	X6	
L					36		C	4		P4 V2 V4 P6	2-	P5	
R SAM	1331.0	1331.3		BRN - ALT'N (SPOTTY) = X6 PROB BID.									
N L	1340.0	1357.0		X PBTF		EQ SW	F B H	N 3 VM	60 V5	V4 74 ZE	7*	X6	
L					36		C	4		P4 V2 V4	2-	P5	
R SAM	1353.0	1353.5		GOOD SAMPLE OF RK TYFE WITH QTZ-MOLY VNS CUTTING MAG-BID ALT'D									
R SAM	1353.0	1353.5		ANDESITE.									
N L	1357.0	1385.0		X PBTF		EQ SW	F B H	N 2 SH	0 V5	V4 84 ZE	7*	X6	
L					36		SH	C	8		P4 66 V2 V4	2-	P5
N	1385.0	1395.0		X PBTF		EQ SW	F B H	N 3 VM	40 V5	V4 74 ZE	7*	X6	

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DRILLHOLE/TRVERSE : DDHE-064 (CONTINUED)

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

ALT. & ZED VNS. MINOR CALCITE VEINS INCREASE TO 470.

451-507:

TUFFS CONTAIN CHL'D MAFIC PHENOS WITH INCREASE IN ZEOLITE VEINS
 MINOR SER ENVELOPES. GILSONITE OCCURS AS SOOTY BLACK COATINGS.

507-543:

AS 451-507 WEAK EPIDOTE & POSSIBLE GARNET SKARN ALTERATIONS.
 MINOR SPHAL.

543-592:

HORNBLNDE PORPHYRY AS 320-400 WK CHL/MAG/EPI ALTERATION
 2% PYRITE, MINOR CPY, MoS2 & SPHAL.

592-855:

LIGHT AND DARK GREEN BANDED PARSON BAY SEDS AND TUFFS.
 EPIDOTE ALTERATION IS WEAK AT 592 INCREASING TO MODERATE
 AT 690 THEN DECREASING TO WEAK 820-855. MODERATE MAG 820-855

855-900:

VAGUE X'TALINE TUFF (DIKE?) MOD CHLORITE, MOD-STR QZ, CARB, ZED
 VNS.

900-968:

PARSON BAY TUFFS WITH WK SILICIFICATION, MOD/CALC/ZED VLTS
 AND MOD-STR MAG. 2-3% SULPH AS PY, TRACES MO. WK EPI, STR
 CHL ALT 960-968.

968-983:

QUARTZ FELDSPAR PORPHYRY AS 1008-1319.

983-1008:

WKLY SKARNIFIED PB TUFF. OCC HBL PORPH CLAST. MODERATE CHL,
 STRONG MAG AND CALC/ZED VLTS.

008-1319:

QUARTZ FELDSPAR PORPHYRY, DIOBRITIC/GRAND DIORITIC COMP.
 MOD-STR ZEO ALT AS VNS AND OCC PERV. CHL ALT GEN'LY WK-MOD.
 MINOR SERICITE.

MINOR BIOTITE/SERICITE/CHLORITE ALTERED ANDESITE DIKES NOTED.

1319-1397:

PARSON BAY TUFFS, MINOR SEDIMENTS,
 NON-BANDED WK CHL/MAG ALT'D & MODERATE BIOTITE.

1% VISIBLE CPY, TRACE MO.

PATCHY, STRONG MAG ALTERATION.

397-1485:

GRANDIORITE FINE GRAINED GREENISH GRAY WITH WEAK CHL AND
 MOD MAG ALTERATION. 10% COARSER PORPHYRITIC PHASE OF
 SAME MATERIAL.

