## REPORT ON DIAMOND DRILLING SUBMITTED FOR

# ASSESSMENT WORK ON THE EAST GROUP OF

## MINERAL CLAIMS

Mary, Snafn Dog, Doo, Sun Muars, Moon, R2 to R4

Hole Locations	Latitude Longitude	50° 127°	35½'N 22 3/4'W
Mining Division	-		Nanaimo
N.T.S. Location	-		Map 92 <sup>L</sup> /11W 1:50000
Detailed Locations	-		About 2600 meters east of Rupert Inlet on and south of the W.F.P. Rupert Mainline Road.
Owners	-		Utah Mines Ltd.
Operator	-		Utah Mines Ltd.
Authors	-		J.A. Fleming and G.L. Holland

Date Submitted

August 10, 1984

# GEOLOGICAL BRANCH ASSESSMENT REPORT

12,768

AUG 2 0 1984

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## APPENDICES:

Copy of Drill Hole Logs

(Back Pocket)



#### **OBJECTIVE:**

The holes (R-14 and R-15) were drilled on mineral claim Moon (#65). The holes are 6.1 km. east of the Island Copper pit. Lying to the east of the east margin of the Rupert monzonite porphyry stock they were drilled to test this zone for possible mineralization associated with the stock. The nearest known diamond drill hole is 300 meters to the east.

#### WORK PERFORMED:

- 1. Two holes were diamond drilled to NQ size between July 13th and July 17th, 1984. Total depth, 245.1 meters.
- Located on Moon #65 mineral claim they are situated about 2600 meters east of Rupert Inlet on and south of the W.F.P. Rupert Mainline logging road.
- 3. Particulars of the holes are:

Hole	Inclination	Length	Collar Elev.	Collar Co-ordinates
R-14	-90°	118.0 m	17.2 m	1838.7N and 48768.6E
R-15	-90°	127.1 m	22.8 m	2796.5N and 48339.8E

The survey co-ordinate positions of the holes are based on that in use at the mine.

- 4. Drill core logs are attached to the report. All core logging was done by G.L. Holland, B.Sc., University of British Columbia, who is on Utah Exploration staff. All core is stored at the mine site.
- 5. An itemized Cost Statement is included in the report.
- 6. An Index Map (1:50000 NTS) and a detailed Claim Map, form part of the report and show the drill hole location and the position of the East Group of claims.

\$13,132.00

390.00

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## STATEMENT OF COSTS

## FOR THE

# EAST GROUP OF CLAIMS

# CONTRACTORS' CHARGES

A. Diamond Drilling Contractor:

Overburden -

50 feet @ \$16.75 = \$ 837.50

Rock -

784 feet @ \$16.75

Field Costs -

Moving, setting up, water lines, set casing, etc. = 1,285.18

Extra Charges -

Mobilization Cost @ 20% of total charge for contract = 340.00

# B. Other Contractors

1)	D-6 Cat and Operator -		
	Move and prepare site - 10.0 hours @ \$60.00	=	600.00
	Standby Rate - 4 days @ \$120.00	=	480.00
2)	Lowbed and highboy trailers, tractor and operator -		

#### UTAH COSTS

1.	Core House Labour	=	400.00
2.	Geological Supervision	=	1,200.00
3.	Company Overhead @ 25% of labour + Supervision	=	400.00
4.	Core Boxes 44 @ \$3.50 each	=	154.00
5.	Core storage 784 ft. @ \$0.40	=	313.60
6.	Preparation of Report	=	300.00
7.	Survey of Holes	=	200.00
8.	Sample Preparation and Assays 76 @ \$10.00	=	760.00

Move D-6 Cat and drill from sites -

Total: \$20,792.28

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Total Footage Drilled - 834 feet (254.2 m) Cost Per Foot Drilled \$24.93 (\$81.79/m)

6.0 hours @ \$65.00

## RESULTS

## 1) Hole R-14

The hole intersected dark and pale green, medium grained, quartz, chlorite, sericite, magnetite ± epidote ± hematite altered, weakly to moderately fractured andesite tuff. The dark green tuff matrix is moderately to strongly altered to silica, magnetite and chlorite while the pale green tuff matrix is weakly altered to chlorite and sericite. Feldspar and mafic phenocrysts are partially altered to sericite and chlorite respectively.

The main fracture fillings are quartz, pyrite, calcite and magnetite. The pyrite content ranges from 1 to 4 percent in proportion to the fracture density. Minor chalcopyrite and molybdenite occur associated with shears and quartz veins, but copper and molybdenum assays are low.

Two strong fault zones occur from 29.9 m to 44.8 m and 61.3 m to 73.8 m at angles to the core axis of about 30° and 45° respectively. Both zones are characterized by sericite-clay rich gouge, strong pyrite veining with up to 8 percent pyrite, pyrophyllite altered breccia fragments and short sections of more competent andesite.

#### 2) Hole R-15

Dark and pale green, medium grained andesite tuff was also intersected in this hole, but with sections of pale to dark green and pinkish quartz-feldspar porphyry to 32 m thick cutting the andesite. Contacts are generally sheared or brecciated. Chlorite and sericite occur the porphyry well as alterations in as the tuff. Silicification varies from weak to strong.

Thin (0.3 m - 1.0 m) feldspar porphyry dykes cutting the andesite are scattered through the core while a pink-orange quartz monzonite occurs near the top of the hole in contact with the tuff and quartz-feldspar porphyry, and at depth as breccia fragments mixed in with tuff and feldspar porphyry fragments.

Shears occur through the hole, commonly with strong pyrite veining. Strong faults occur at 22.3 m, 70.1 m and 86.9 m. The fracture density is moderate to strong with quartz, calcite, pyrite and zeolite as the main fracture fillings. A quartz-carbonate vein set is prominant and cuts an earlier quartz vein set. Pyrite occurs primarily as fracture fillings in amounts up to 3 percent. Minor chalcopyrite and molybdenite were noted as in R-14, but copper and molybdenum grades are all low.

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## CONCLUSIONS

The holes confirm the extension of the Rupert Stock dyke system east from an earlier hole (R-13). Although many of the elements of a porphyry system are present, it is apparent that the copper and molybdenum components are not present in economic quantities. The present holes have tested the dyke and south side of the dyke. The north side is untested in this area, and although it would appear unlikely to host an orebody, the possibility should not be overlooked.

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#### STATEMENT OF QUALIFICATIONS

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

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

J.A. Fleming, B.Sc., Chief Geologist.

Island Copper Mine, Utah Mines Ltd.

	HOLI CAS COO IN CI	E NO. ING C Rdina Linati	OLLA TES:	R- 12	- /4 .ev.: 38 90	- 10 3	)56. 7	.4 ( <i>SEA LEVEL</i> 21000 ground elev.: n. 48768.6 e. bearing:	DATE START DATE START DATE FINISI TOTAL DEP	Island Copp red: July 13, 198 red: July 13, 198 red: July 15, 198 rth: 417 feet	PAGE NO: 2 34 REF. TO CLA 84 SCALE: 1 LOGGED BY	01 IN CORN 10 <i>G</i> ,	: 7 er: 2.,	40/1	land	L.		
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	5+	30	3				$\overline{)}$	72.5 - 85.0 - Moderate to strongly cemented fault	zone in	1-2%				8		20.10
	<b> </b> ₩	ᡟ	ᡟ┤	-		197	Hod-strly comented	minur gouge. Estimated at Gotto C.A. Alot of qtz-carb healing of the firts. 1-2% diss my in gou	gtz and liged sections	$\sim$				0		
				00	 		Hosz	Minor Mosz assoc is the otz-carb uning. 75-78 (- Quartz Monzonite)	/						80	
				Stro			→ 40m shear zone.	78-0-132 <u>ANDESITE TUFF</u> 78-103- pale to grass green; medium grained; mod chloritic altin, mod magnetite present; as disseminati to be sericite to the chlorite. Fits are healed to	erate ons; eppears qtz-cal.				cline	610		20.10
- 90 - -		. ¥	ate		$\left  \right\rangle$		->STr qtz 3/w	-minor dark green silicious sections, -py confined to fits					5	•	90	
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	00		ч Х	o V V		A	Barn & 45°to CiA	112-113 - FP dyke w strong py . Bounded by 45'sh	ear @ top					••••••	110	
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► 						13	str py. 13	2-159 QUARTZ FELDSPAR PORPHYF	<u>₹</u> ¥					4		
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E160	┢					2	/59.0	Brecciated Contect.						-		
F.	3						159-25	2.5 - ANDESITE TUFF							-160	
F	1×							-grass to dark green. -str.gtz-carb uning to 168 feet						ĸ		
E	0					5		- the grass green is non mag, mod chi = ser alt d - the dk green is why mag, strong silica - chia 1+1d						2		20.10
F	6		J					- 972 5/W weakly developed. - 80% fitures are healed in 972 ; 972 carb; Py	4	~0				0		
F170-	Ť	~	To L	U	+	-	-> Sem gtz-carb unit.	W the chlorite. -2-3% by ac dire and at Pill-	e representent	ŝ					170	
F	0	5	de	a †	5	١.				2						
F	T Y	3	30	2°	R	$\cdot$								2 <b>0</b>		20.10
F	6		Ì	ŏ 2		· ·								õ		
£180	3			[]		$\mathbf{N}$					<del></del>					L

R-15																
HOLE NO. A-15				ELEV.	GROUND FLEY			PROJECT: Z,C	PROJECT: $T.C$ PAGE NO: $4$							
CASING OCCUM CLUT,					•		N. F	DATE STARTED:	REF. TO CLAIM CORNER:							
INCLINATION:							BEARING		SCALE:							
					1	T							+			
z	AL	IER 0					COMMENTS:		AVE CORE REC'Y / HOLE	ES	<u>ب</u> ن	0		ф Г Ш Д	 	ESTI- MATED
CTIO	0	- - -	e t	CTUR	NER	0100				PH I D	ERVA	CORE	ORE	UMPL.	REC'Y	%
SE SE	.v.	Ser	chlo	FRA	Σ	GE		DESCRIPTIVE GEOLOGY	w.	SUL	NOT N	REC 8	00	SU	% %	Cu,
E			$\uparrow$					ANDESITE TUFF cont		†					180	
							icm gtz vnit cut by Icm gtz-carb vnit	* Quartz-carbonate veins noted cutting guar	t veins					029		20.10
- 190.  -  -  -  -							≥ ex3cm qt2-carb untt ü Py @ 30° to C.A.	* Byrite mainly fracture controlled.						0	- 190	
						-	is strate-carb zone.	195-198 - Strly fit'd zone wintense gtz-carb w staining - minor zeolites present:	j hemetitic					03(		40+/D
-200-								* Quartz-carbonate uning strong, qtz un	ing weak.						-200	•••••
				2rate			-> F.P. dyke @ 40"to C.A	205 - 15cm Feldspor Porphyry dyke					line	160		40./D
-210 -			J	pode		Å	>F.P. dyke @ 40 to C.A	210-211 - F.P. dyke.		2			2		-210	
	derate	Yo	derat		1 +			218-223 - Strongly healed breecia zone ū fre	igs of	2			N.Q.	032		20.10
-220-	ů E	3	0		2d	(%) )	bran to tuff ! Q.M frags str pyrite	Quartz Monzonite and Andesite Tuff in a rich metrix.	pyritic-chlorite						-220	
						(6)	)	* Minor pyrite units have 5-8mm wide silie	ous selvages.							
								223-230 Strong gtz-carb uning in the tuffs.						033		20.10
-230- L				₩		H	$\mathcal{F}_{A} \cup f \subset \mathcal{N} \oplus \mathcal{G} \mathcal{G}^{T}_{A} \subset \mathcal{A}$	230-240 Fault zone is weak to moderate	cementing						230	
				tense	Ń	Ŝ		of the tuff-QM-F.R fragments Gouge co	menting					34		20.10
240			$\downarrow$	H	4	Ľ	TFoult CN @ 70 to CA.							0	240	





HOLE NO P-15		PROJECT: T.C.	PAGE NO: 7	OF 7	7					
CASING COLLAR ELEV,	GROUND ELEV, :	DATE STARTED:	REF. TO CLAIM	REF. TO CLAIM CORNER:						
COORDINATES:	Ν.	E. DATE FINISHED:	SCALE:	SCALE:						
IN CLINATION :	BEARING	TOTAL DEPTH:	LOGGED BY :					-		
ALTERATION	COMMENTS:		AVE CORE REC'Y / HOLE	× HIDES	LLING	CORE VERED	ORE I Z E	MPLE TA	REC'Y	ESTI- MATED
Silicq Sericit Chlori FRACTU MINE	CEO	DESCRIPTIVE GEOLOGY		SULP	INT	RECO.	ο̈ν	A SA	3%F	cu
	> > irregular contact.	QUARTZ FELDSPAR PORPHYRY C 361 - ANDESITE TUFF - strong silicified in most parts - strong to weak mag - 2-8% py, mainly fits - hemetitic staining - to drive and gto-earb healed	cont				ÿÇ	047	270	20.10
strong strong strong	22 - 22 - ALT	Minor zone of QFP within # rock is shattered as contact relation	tionships are	2-3%			VQ wire 1	048	-280	£0.10
80- "	iongtzvntt							049		<b>40</b> ./0
10-	387	END OF HOLE								

	HOLE K	-15	FISSAYS		
TEG #	FIROM(FT)	TC) (FT.)	% Cu	% Mo	
014	30	40	0.02	0.002	
015	40	50	0.03	0.005	
616	50	60	0.03	0.006	
017	60	70	0.00	0.006	
018	70	80	0.02	0.004	
019	80	90	0.02	0.003	
020	90	100	0.0a	0.002	
021	100	110	0.02	0.00/	
022	110	120	0.03	0.001	•
023	120	130	0.04	0.001	
024	130	140	0.03	6.002	
925	140	150	0.02	0.004	
036	150	160	0.00	0.005	
027	160	051	0.02	0.002	
028	170	180	0.02	0.002	
029	180	190	60.0	0.001	
030	190	200	0.03	0.003	9 - L - LL
031	200	210	0.03	60002	
032	aio_	990	0.04	0.002	[
033	266	230	6.02	0.002	
034	230	340	0.02	0.003	
035	240	250	0.04	0.003	
036	250	260	0.03	0.006	
037	260	270	0.05	0.006	
036	270	මසට	0.04	0.007	
039	280	990	0.04	0.006	
040	390	300	0.05	0.001	
041	300	310	0.06	0.004	
042	3/0	320	0.07	0.008	
043	320	330	0.06	0.008	
044	330	340	0.10	300.0	
045	340	350	0.07	0.007	
R46	350	360	0.08	0.003	
047	360	370	0.10	0.003	1
048	370	<b>39</b> 2	0.05	0.001	
049	380	387	0.04	0.001	

