

Province of British Columbia

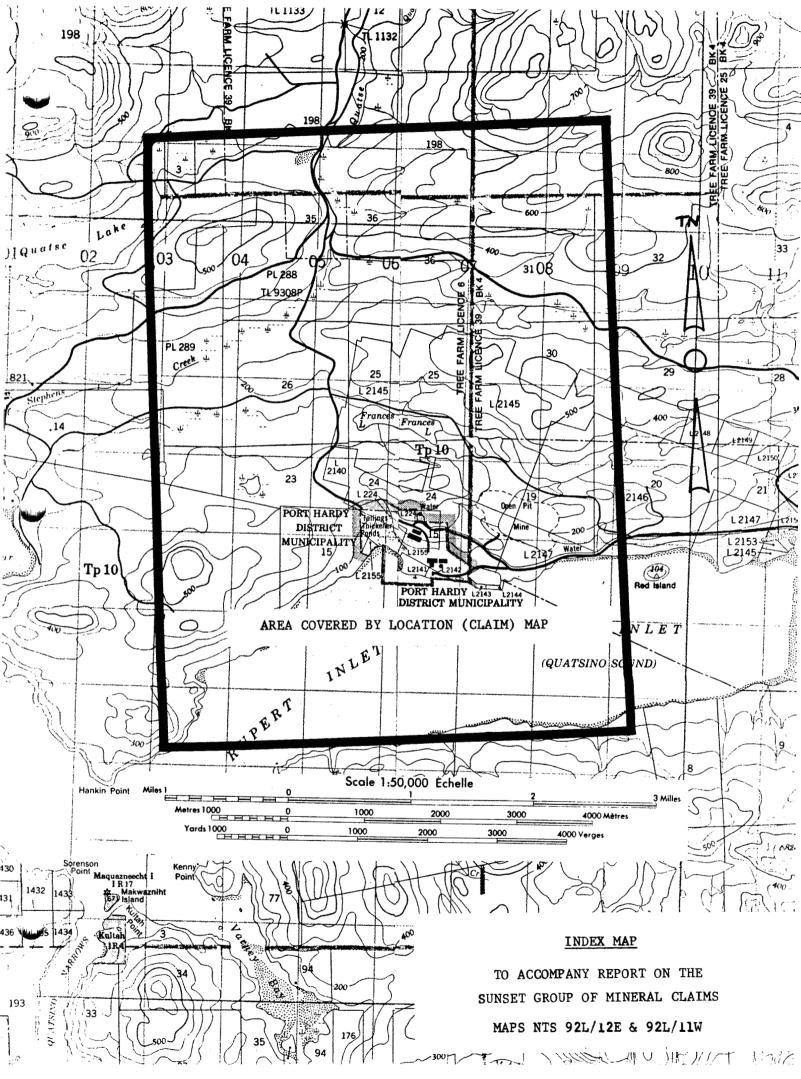
Ministry of Energy, Mines and Petroleum Resources

ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TYPE OF REPORT/SURVEY(S)	TOTAL COST
DIAMOND DRILLING AND PERCUSSION DRILLING	\$49,450.88
AUTHOR(S) J.A. Fleming sign,	ATURE(S)
PROPERTY NAME(S)	February 18, 1985. YEAR OF WORK . 198
COMMODITIES PRESENT	
B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN	124.135
MINING DIVISION Nanaimo	NTS 921/12E /
NAMES and NUMBERS of all mineral tenures in good standing (when work	
(12 units); PHOENIX (Lot 1706); Mineral Lease M 123; Mining or Certified N	lining Lease ML 12 (claims involved)]:
Kol 15-38, 40-44; Kol 1Fr-9Fr; Coir 1.2, 92, 94-100; Cove 17-20; Coir Fr.; Cor	
DWNER(S)	
1) UTAH MINES LTD. (2)	GORDON MILBOURNE
• • • • • • • • • • • • • • • • • • • •	
MAILING ADDRESS	
BOX 370	c/o LADNER DOWNS
PORT. HARDY, B,C VON. 2PO	2100 - 700. WEST GEORGIA STREET.
PERATOR(S) (that is, Company paying for the work)	LOGICALVBORUARNBCH
utah mines LTD. A Sas	ESSMENT REPORT
IAILING ADDRESS	
BOX370	
PORT HARDY, VON 2PO, B, C.	
UMMARY GEOLOGY (lithology, age, structure, alteration, mismander)	and attity to):
he area is underlain by the Upper Triassic to	Lower Jurassic volcanic and sedimentar
uccession of the Vancouver and Bonanza Groups	and the Cretaceous sedimentary cover.
id-Jurassic granodioritic stocks (Quatse Stoc	k); and quartz-feldspar porphyry dykes
ut the succession Hydrothermal alterations he porphyry dykes in the Bonanza tuffs. The	succession dins dently to the southwes
our prominant fracture directions are present	on the property at 0200, 0600, 0900 ar
our prominant fracture directions are present 30° The dykes are present along the 060° a	nd 1300 fracture directions. Hornble
feldspar) porphyry dykes and sills in the are	a. are. believed. to. be. co-magmatic. with
REFERENCES TO PREVIOUS WORK	Junanza voicanies cui i
ASSESSMENT REPORTS, #5265, #7427, #11366, and October, 1984.	Report on Diamond Drilling Sunset Gro

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INTRODUCTION

Between the 18th of July and 16th of August, 1984, two diamond drill holes and six percussion drill holes totalling 246.7 meters (809.5 feet) and 481.9 meters (1581 feet) respectively were drilled within the limits of the Sunset Group of claims. This formed part of the drilling program in the area in 1984 carried out in exploration for a near surface porphyry copper—molybdenum deposit. Some weak copper and molybdenum mineralization was previously encountered in the area along with quartz-feldspar porphyry dykes and associated hydrothermally altered rocks favourable for an Island Copper type deposit.

PROPERTY DESCRIPTION

The Sunset Group (Map 2) consists of 77 two-post claims contiguous to the west boundary of the Utah Mines Ltd., Island Copper Mine mineral leases. The property measures approximately 3.6 km east-west by 6.7 km north-south.

PHYSIOGRAPHY

The area is characterized by low, rolling hills with maximum relief of 120 meters. Stephen's Creek fed from Joe's Lake through Stephen's Swamp, cuts across the group and drains into Coal Harbour. The low ground around the swamp has a maximum width of about 600 meters.

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.

PREVIOUS WORK

The north half of the group has been a focus of recent exploration activity around Island Copper Mine. Work has involved line-cutting, geochem soil surveys, I.P., mag and VLF geophysical surveys, geological mapping and diamond drilling. This supplemented work performed in the 1960's in the original Island Copper exploration activities. Reports submitted for assessment credit on recent work are:

- 1) Geologic Report on Sunset Group, G.L. Holland, June, 1983 (#11366)
- 2) Drilling on Sunset Group, J.A. Fleming, May, 1984
- 3) Drilling on Sunset Group, J.A. Fleming and G.L. Holland, October, 1984.

The previous work indicated that quartz-feldspar porphyry dykes, hydrothermal alteration minerals (e.g. chlorite, sericite, silica, garnet) and low grade, spotty copper and molybdenum mineralization are present in the north half of the group in the Bonanza volcanics. The area round W-8 had a single station IP. anomaly and spot geochem copper highs that were unexplained. Holes E-60 and E-61 were drilled on an east-west trending mag anomaly falling between the northwest corner and Bay Lake anomaly centers. They intersected low grade copper and molybdenum associated with quartz-pyrite veins, brown biotite alterations and silicification in the Bonanza fragmental andesites. In addition, a number of narrow quartz-feldspar porphyry dykes were intersected indicating the presence of a dyke system and perhaps underlying stock in the area.

OBJECTIVE

The objective of all drilling was to intersect a near surface porphyry copper-molybdenum mineral deposit, or at least favourable rock types and alterations to guide future exploration in the area. The percussion holes were drilled to fill the gaps between existing drill holes. Hole E-62 was a follow-up hole to E-60 and E-61 testing the mag anomaly while hole W-8 was a drill test of I.P. and geochem spot anomalies in the Stephen's Swamp area.

WORK PERFORMED

The following drill holes were completed on the group:

<u>Hole</u>	<u>Claim</u>	Claim#	Mine Gr Coordin North		Elev. (M Above SL	eters) Length
A) D.D. Holes					,	
W-8 E-62	Bay 55 Bay 60	17759 17764	11792 14042	13712 17294	71.0M 61.0M	294'(89.6M) 515.5(157.1)
b) Percussion Holes						
WP-2 -5 -6 -7 -10 -11	Bay 56 Bar FR Bay 59 Bay 58 Cove 20 Cove 18	17760 27500 17763 17762 18123 18121	15799 16809 16557 14707 14234 12819	15427 17038 16722 15991 15620 16871	85.7 62.2 60.1 54.6 54.3 70.1	300 (91.4) 110 (33.5) 300 (91.4) 300 (91.4) 300 (91.4) 271 (82.6)

Drill core from Holes W-8 and E-62 were logged, photographed and measured for recovery, RQD and magnetic susceptibility. The core was split and sampled in ten foot intervals. All samples were assayed for copper and molybdenum. Hole E-62 had several forty-foot composite samples assayed for gold. The drill core is stored on racks in the upper core shack at the Island Copper Mine site.

The percussion samples were collected at the drill with a 12 volt splitter box with an 8:1 sample split ratio. Percussion drilling was performed with water. After being dried at room temperature a portion of each sample was screened using 8, 20 and 50 mesh screens. Enough material starting with the coarse faction was affixed to a card with contact cement to fill a 5 by 5 cm square. These chip cards were used for logging. A binocular microscope with 20% and 40% powers was used to log the chips. The cards are stored in the upper core shack at the Island Copper Mine site.

The core was logged by G.L. Holland and the percussion chips were logged by G.A. Clarke. Both are staff geologists employed by Utah Mines Ltd.

RESULTS - Diamond Drilling

Hole E-62

The hole penetrated 44.8 meters (147 feet) of overburden. From 44.8 meters to 83.2 meters (273 feet) the hole intersected moderately to strongly fractured, dark green to brownish, weakly to moderately chlorite and magnetite, and weakly biotite, silica and epidote altered andesite. Chlorite and magnetite alterations are pervasive with the others fractured controlled. Fractures are about 40-50 percent healed, with pyrite (2-3 percent) and quartz-carbonate as main fracture fillings. Minor molybdenum and chalcopyrite are associated with the quartz and quartz-carbonate veins. Silicification increases with depth.

A medium to coarse grained quartz-feldspar porphyry with quartz eyes to 4 - 6 mm was intersected from 83.2 to 86.1 meters (273-282.5 feet) with weak chlorite-sericite alterations. Pyrite occurs associated with mafic phenocrysts and in fractures to two percent.

Below the dyke to the end of the hole is andesite similar to that above the dyke but with moderate to strong silicification and moderate chloritization, with a moderately developed quartz stockwork and weakly developed quartz-carbonate stockwork. Quartz-moly veins are common with chalcopyrite also present.

A quartz healed fault zone extends from 91.4 to 94.4 meters (300-310 feet) with individual shears at 25° to 40° to the core axis. Another zone extends from 43.8 to 147.5 meters (472-484 feet).

The hole averaged 0.11% Cu with a range of 0.04 - 0.24% Cu, and .011% Mo with a range of 0.004 - 0.027% Mo.

Hole W-8

The hole hit bedrock at 8.5 meters (28 feet) and intersected 81.1 meters (266 feet) of dark green to purple, to pale green-reddish, weakly to very weakly chlorite, magnetite, epidote and sericite altered volcanic breccia (formational) with locally weak to moderate hematite alteration. Several sections of andesite porphyry 1.8 to 5.5 meters (6-18 feet) thick occur within the volcanic breccia. The fracture density is low with calcite, pyrite and epidote as the main fracture fillings. Pyrite runs less than one percent and there is no visible chalcopyrite or molybdenite.

RESULTS - Percussion Drilling

The logs are summarized below and grades summarized in Table 1.

Hole WP-2

The overburden depth was 23.2 meters (76 feet). The chips from the hole indicate that the hole intersected moderately to strongly chlorite, magnetite altered andesite with weak to moderate epidote alteration. Black (primary?) biotite flakes are found throughout. Main vein materials are quartz, carbonate, pyrite and zeolite, and locally some pyrobitumen (gilsonite?). The sulphide content ranges from one to three percent with minor chalcopyrite noted.

Hole WP-5

Bottomed in overburden at 35.1 meters (110 feet).

Hole WP-6

Overburden was 21.3 meters (70 feet) thick. A grey-green, weakly to moderately chlorite-sericite altered andesite was encountered from 21.3 to 82.3 meters (70-270 feet) with mixed dark and light alterations to the end of the hole. Black biotite flakes and brown biotite (?) both are present. Main veins or fracture fillings are pyrite, zeolite, calcite and epidote. Minor hematite was noted from 82.3 meters (270 feet) to the end of the hole. Chalcopyrite and molybdenite are common with total sulphides ranging from less than one percent to five percent. Minor galena was noted at 33.5 meters (110 feet).

Hole WP-7

The hole intersected 30.6 meters (100 feet) of overburden. Medium to dark green-grey to brownish chlorite-sericite altered andesite extends to 54.8 meters (180 feet). The brownish alteration (biotite?, garnet?) is weak to moderate with possibly some primary biotite present. The rock is lighter in colour with increased quartz-sericite alterations to the end of the hole with a high quartz content from 67.1 - 73.1 meters (220-240 feet) indicating a possible intrusive. Pyrite content varies from one to four percent. Main veins or fracture fillings are pyrite, calcite and pink zeolite.

Hole WP-10

The hole intersected 23.2 meters (76 feet) of overburden. From there to 51.8 meters (170 feet) the rock is a medium grey-green to brownish, chlorite, sericite, biotite (?), garnet (?), epidote altered andesite. The pyrite content is high at five to ten percent. From 51.8 to 76.2 meters (170-250 feet) the rock is more siliceous, possibly an altered intrusive. The calcite content is moderate to locally high. From 76.2 (250 feet) to the bottom the rock is moderately to strongly sericite and moderately chlorite altered andesite.

Hole WP-11

Overburden in 24.7 meters (81 feet) thick. A medium to dark green, weakly silicified, chloritized and seriticized, weakly to moderately porphyry magnetite altered porphyritic andesite extends to 61 meters (200 feet). The rock to the end of the hole is lighter coloured with weak to moderate quartz-sericite alterations and spotty magnetite alteration. Main veins or fracture fillings are pyrite (2-10 percent), calcite and pink zeolite.

Table 1

		Cu (%)		Mo (%)
<u>Hole</u>	Mean	Range	Mean	Range
WP-2	0.04	0.02-0.09	0.002	0.001-0.010
WP-6	0.14	0.10-0.20	0.017	0.006-0.032
WP-7	0.10	0.07-0.17	0.013	0.004-0.044
WP-10	0.03	0.01-0.06	0.001	0.001-0.003
WP-11	0.09	0.05-0.16	0.002	0.001-0.004

DISCUSSION

The percussion holes showed evidence of weak to moderate and locally strong hydrothermal alterations (e.g. chlorite, magnetite, silica, sericite, biotite), that indicates the intrusive/hydrothermal system carries through from the Bay Lake area to the northwest. Two of the holes had siliceous sections (WP-7 and WP-10) that may be chips of intrusive rock. Hole WP-10 also had a high pyrite content to ten percent. Hole WP-6 had the highest average copper and moly grades at 0.14% Cu and 0.017% Mo.

Hole E-62 was drilled to test for eastward continuity to mineralization and the porphyry intersected in hole E-61. It confirmed the continuity of the intrusive system, alterations and weak mineralization.

Hole W-8 lying to the south is removed from the mineralized intrusive system. Silicification and magnetite alteration of Bonanza fragmental andesites to the east could be related to a deeper, undetected stock/dyke.

CONCLUSIONS

The program found evidence of the dyke system extending from the Bay Lake area through to the northwest part of the group with related hydrothermal alterations and weak copper and moly mineralization. It did not intersect a near surface prophyry copper-moly deposit and has significantly reduced the discovery potential for such deposit in the area.

COST STATEMENT

HOLES W-8 AND E-62

Contractor Charges

A. Diamond Drilling Contracto	Α.	Diamond	Drilling	Contractor
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Α.	Diam	ond Drilling Contractors			
	<u>Over</u>	rburden			
		@ \$16.75 @ \$17.50	\$2,177.50 822.50	\$ 3,000.00	
		© \$16.75 5 @ \$17.50	\$10,344.75 271.25	\$10,606.00	
	6 Ho	Id Costs Durs @ \$60/Hour 5 Hours @ \$50/Hour D Hours @ \$25/Hours	\$ 360.00 1,625.00 400.00	\$ 2,385.00	
	Cas Mob Core	er Charges ings and Shares ilization e Boxes 36 @ \$5.36 plies, Freight	\$ 520.63 404.00 192.96 923.73	\$ <u>2,041.32</u>	\$18,032.32
В.	0th	er Contractors			
	1)	D-6 Cat and Operator			
		Move and Prepare Site 27½ Hours @ \$60/Hour.	\$ 1,650.00		
		Build Cat Trails	1,440.00		
		Standby - 8 Days @ \$120/Day	960.00		
	2)	Low Bed and Highboy Trailers, Tractor and Operator - Move D-6 Cat and Drill from Sites 12½ Hours @ \$65.00	\$ 812.50		\$ 4,862.50

TOTAL CONTRACTOR COSTS:

\$22,894.82 =======

COST STATEMENT

PERCUSSION HOLES WP-2, 5, 6, 7, 10, 11

Percussion Drilling Contractors

	Overburden 502 ft. @ \$7.80/ft.	\$ 3,915.60		
	Rock 1079 ft. @ \$7.80/ft.	\$ 8,416.20	\$12,331.80	
	Field Costs 25.5 Hours @ \$95/Hour 16.0 Hours @ \$50/Hour 5.0 Hours @ \$25/Hour	\$ 2,422.50 800.00 125.00	\$ 3,347.50	
	Other Costs Casings, Shoes Mob/Demob - 6 Holes @ \$300/Hole Bags Water Truck Drivers	\$ 1,028.69 1,800.00 32.37 272.25	\$ 3,133.31	\$18,812.61
	Other Contractors			
1)	D-6 Cat and Operator Site Prep. 1 Hour @ \$60.	60.00		
2)	Lowbed Trailer, Tractor and Operator Move Cat 1 Hour @ \$62.50	62.50	·	
3)	Water Truck and Operator Supply Water to Drills 7.3 Hours @ \$35/Hour	256.45		
4)	980 Loader and Dump Truck Load Gravel and Prepare Site 2 Hours @ \$91/Hour Haul Gravel	182.00		
	5½ Hours @ \$55/Hour	302.50		\$ 863.45
тот	AL CONTRACTOR COSTS:			\$19,676.06 =======

UTAH COSTS

Diamond Drilling	·		
Core House Labour	\$ 600.00		
Supervision and Core Logging	1,100.00		
Co. Overhead @ 25% Supervision and Labour	425.00		
Core Storage 632 feet @ \$0.40/ft.	250.00		
Sample Assays			
65 @ \$10/Sample	650.00	\$3,025.00	
Percussion Drilling			
Core House Labour	\$ 200.00		
Supervision and Chip Logging	1,700.00		
Co. Overhead @ 25% Supervision and Labour	475.00		
Sample Assays 108 @ \$10/Sample	1,080.00		
E		\$3,455.00	
Report Preparation		400.00	\$ 6,880.00
TOTAL COST OF PROGRAMS			\$49,450.88 =======

STATEMENT OF QUALIFICATIONS

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

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

J.A. Fleming, B.Sc.,

Chief Geologist.

Island Copper Mine

Utah Mines Ltd.



PROJECT: ISLAND COPPER HOLE NO. WP-2 REF. TO CLAIM CORNER: DATE STARTED: JULY 13, 1984 CASING COLLAR ELEV.: 1291 BROUND ELEV.: SCALE: | " = 10" DATE PINISHED: TOLY 14, 1984 15427 E. COORDINATES: 15794 LOSSED BY : GAC TOTAL DEPTH: 300 INCLINATION: -90" ESTI-AVE CORE ALTERATION COMMENTS: REC'Y / HOLE RACTURING MINERAL SECTION ASSESSMEN GEOLOGY DESCRIPTIVE overburden no samples. 0-76 OK gry grn andesite - etips 5-8 mm. andesite is fig. . 4 70 makies showing with mind ohl att and blk bio (primary) 76-80 U minor api, and some zer on trace. similar in 76.80', mod-str may alt", mad chil, minor 300 80-90 <17. 2.05 2 modistr mag. poss trag of 9tz VA same as 76-80 90.100 cutting andos. is . olivine? 92 4.65% 10-15% 9/2 same as 76.80 . who set ch/mag alt. spotty PY: 100 -110 × 09 5.10% pale pak 300. By may be in glz py VNS. 37 some es 76.80 str mag/ehl alth of moties ,10-120 spic (possibly of one but whiteles) 5 1000 pole pot 700 4.05

PAGE NO

HOLE NO. WP - 2 PROJECT: PAGE NO: 2 or 4 CASING COLLAR ELEV, GROUND ELEV. DATE STARTED: REF. TO CLAIM CORNER: E. DATE FINISHED: COORDINATES: LOSGED BY : CAC TOTAL DEPTH: INCLINATION: BEARING: AVE CORE REC'Y / HOLE ESTI-ALTERATION COMMENTS: SULPHIDES
DRILLING
INTERVAL
% CORE
RECOVERED
CORE
SIZE MATED RACTURING MINERAL SECTION Cu. DESCRIPTIVE GEOLOGY 120 as 76.80 mod chl, mod mag alt. 5-10% 9 17 120 - 130 Minor 3.00 3.42 .05 -130 came as 76.80, some ofte UN frags (Imm thick) wk. mod 130.140 maq. sltly more sles than 76.80 lift visible bio. <1% .02 11 140 same as 130-140, chip 513+ 3 mm, no 947 MMs. wk - mod 140-150 mag, mad chl. .5% ١. 49 š, 150-Simular to 130.140 but vary about 9t7 chips. (30%.40%) 150-160 3% <.05 -160 as 150-60 60/40 half /dark split in chips (30.40% 912) 160-170 mod mag.chl 5.10% pale prik 300, minor spi 2-37 Same 05 140-150 minor pole fak 200 (Wholy from flog v enthor api wk - mod mag, mod ch! stes with 10-15% mulky 1-2% < 05

PAGE NO: 3 PROJECT: HOLE NO. WP 2 REF. TO CLAIM CORNER: CASING COLLAR ELEV,: GROUND ELEV, : DATE STARTED: COGRDINATES: LOSSED BY: GK TOTAL DEPTH: INCLINATION: AVE CORE ALTERATION COMMENTS: REC'Y / HOLE MATED DRILLING
INTERVAL
% CORE
RECOVERED
CORE
SIZE FRACTURING MINERAL SECTION GEOLOGY DESCRIPTIVE 180 sles andocite rimilar to 76-00. A.g. med gry gra 180-130 mod chl alt minor may . possible HCOx - for her to 12 Time you and carchaided blk conting on the trags (non-mag) PY 10-150 , qtz chip. as 1817-190 modell, mod mag, vi minor api 190-200 5% pale pak 200 15 .02 100came as 180 190. We may and mod the old" of making 200-210 minor sort of besies. mod 300 (3 5%) probably free plags. .5% . 05 11 same as 200-210. nimor (2%) calcite with vycod clasurage. - X10 210-220 (that's what the said) 220 some as 210.220 but very little mag. \$ 10% 912 220-230 chips. 1% . 230 same as 180 190, no HEOx - Hocks bio (pimory?) 120 230 mad mag.

PAGE NO: 4 OF 4 PROJECT: HOLE 'NO. WP 2 REF. TO CLAIM CORNER: Chaine COLLAR ELEV .: GROUND ELEV. : DATE STARTED: SCALE: DATE FINISHED: COORDINATES: LOSSED BY: GAC BEARING: TOTAL DEPTH: MIGLINATION: ESTI-AVE CORE ALTERATION COMMENTS: SULPHIDES
DRILLING
INTERVAL
% CORE
RECOVERED
CORE
SIZE REC'Y / HOLE MATED SAMPLE INTERVAL % REC'Y. FRACTURING MINERAL SECTION **GEOLOGY** DESCRIPTIVE 240 fq. wk-mod chi alt anderite? about (15%) milky 9/4 (vn?) 240-250 frags as well as sles looking and frags. Some well developed pyronous xtobs to lmm. trace mag, apy. Abund v. black ultraous bio(?) minor api alt. 5% 300 as trac fly . 250 similar to 240.250 but finer chip size and in higher 912.300/dk mineral content. poss wik ser alt. 250.260 (chips 10.2-1.0 mm) . 01 <.1 160 similar to 240,250 andesite more stes, pass minor colisto 280-280 101 < 1 vfg. chip size - (80% < .1 mm) clips are 70-80% light minerals - 50% qtq, 20-302 fsp and/or zeo with pass calc. He.

dk g chips likely andesete zene as 240-250 -170 171-280 .01 .16 . 3 280.290 same as 270.280, even finer graned (50% < ,05 mm) mostly (80%) 9tz, f.p. + 300. •1 .01 poss mag occpak 300 or file same as 270-280 290 300 1-22 cake ,1 .01

300

		~	i.			1	•		•	,		•	0/3		16	
FLOTALE	MAG.	RIGO	%C.	% M.	%Рь	1/2 Zn	% Fe	7, C.	7.5	ppm An	rom Ac					
76-80			.022	.001			6.7	2.6	.34							
80-90			.053	,004			7.1	2.3	.+3							
90-100			63ء،	.002			7.5	2.0	1.0							
100-110			.039	,001			84	2.0	.80							
110-120			.056	.002			8.0	2.3	.39							
120-130			.035	,001			8.3	2.0	.30							
130-140			, 02-9	100',	·		9.2	1.8	ر33							
140-150			.060	010,			7.5	2.0	,95							
150-160			.023	,001			6.9	1.8	2.5		<u> </u>			-		
160-170			,030	,001			6.6	1.8	2.1				 			-
170-180			.034	.001			7, 2	1.9	1.7						_	
180-190			65ه.	,001			6.9	1.9	2.4							
190 -200			.081	,001			7.2	1.9	1.3							
200-210			.092	,001			811	1.7	0.9			20		7 D	DA	NCF
210-220			.053	.001			7.9	1.8	1.0	G		OCI	T E P	TE	FP	ORI
220-230			,031	,001			8.0	1.7	1.2	A	531	30				
230-240			.017	,001			7.4	1.8	0.7							
24c-250			,017	.001,			7.9	1.6	0.7	A						
250-260			,015	1001			7.9	1.7	0.8						-	
260-270			.040	.001		,	8.6	1.6	1.6					1		
270-280			.013	.001			9.5	1.5	1, 0							
280-270			.012	,001			8.4	1.5	0.9							
2% 300			,014	,001			7.3	1.7	0,8				1			
		$\overline{\chi}$.038	,062												
								·								
													1		1	
															,	1
	76-80 86-90 90-100 100-110 110-120 120-130 130-140 140-150 150-160 170-180 180-190 190-200 200-210 210-220 220-230 230-240 246-250 250-270 270-280 280-290	76-80 86-90 90-100 100-110 110-120 120-130 130-140 140-150 150-160 160-170 170-780 180-190 190-200 200-210 210-220 220-230 230-240 246-250 250-270	76-80 86-90 90-100 100-110 110-120 120-130 130-140 140-150 150-160 160-170 170-780 180-190 190-200 200-210 210-220 220-230 230-240 240-270 270-270 270-270 270-270 270-270 270-270 270-270 270-270	76-80 .022 86-90 .053 90-100 .039 100-110 .039 110-120 .056 120-130 .035 130-140 .029 140-150 .060 150-160 .023 160-170 .030 170-780 .034 180-190 .065 190-200 .081 200-210 .092 210-220 .053 220-230 .031 230-240 .017 24c-250 .017 250-200 .015 260-270 .040 270-280 .013 280-270 .014	76-80 .022 .001 86-90 .053 .004 70-100 .039 .002 100-110 .039 .001 110-120 .056 .002 120-130 .035 .001 130-140 .029 .001 140-150 .060 .010 150-160 .023 .001 150-160 .030 .001 170-780 .034 .001 180-190 .065 .001 190-200 .081 .001 200-210 .092 .001 210-220 .053 .001 220-230 .031 .001 240-250 .017 .001 240-250 .017 .001 250-240 .015 .001 270-280 .013 .001 280-270 .012 .001 270-300 .014 .001	76-80 .022 .001 86-90 .053 .004 90-100 .039 .002 100-110 .039 .001 110-120 .056 .002 120-130 .035 .001 130-140 .029 .001 140-150 .060 .010 150-160 .023 .001 150-160 .034 .001 160-170 .030 .001 170-780 .034 .001 180-190 .065 .001 190-200 .081 .001 200-210 .092 .001 210-220 .053 .001 220-230 .031 .001 230-240 .017 .001 240-250 .017 .001 250-260 .015 .001 270-270 .040 .001 270-270 .012 .001 270-300 .014 .001	FLOOPER MING RIGHD 4 Ca 12 Mo 12 Pb 12 Zn 76-80	February Ming R-QP Y.C. Y.M. Y.Ph Y.Z. Y.Fe Ye-80 .022 .001 .053 .004 .7.1 Yo-100 .039 .002 .7.5 100-110 .039 .001 .84 110-120 .056 .002 .8.0 .021 .8.3 .301 .027 .001 .027 .001 .028 .001 .029 .001 .028 .001 .029 .001 .029 .001 .029 .001 .029 .001 .029 .001 .029 .001 .036 .001 .029 .001 .036 .001 .029 .001 .036 .001 .03		Fronke Ming R.40 Y.C. X.M. Y.P. Y.Z. Y.F. Y.C. Y.S. Y.F. Y.F.	Theorem Plane K-UP Y.C. Y.M. Y.P. Y.Z. Y.F. Y.C. Y.S. Prom. Pr					

0/B 70'

ASSAY TAG.	FOOTAGE	MAG	RIGID	%C.	% M.	%Рь	1/2 Zn	% Fe	7.C.	7.S	ppm Au	Ppm Au		<u> </u>			1
396	70-80			0.14	.015			5.4	1.81								
397	80-90			.10	,006			6.3	1.90	2.22							
398	90-100			.14	,015			6.1	2,15	2.92							
399	100-110			.12	.018			5.2	1.99	2.80					<u> </u>		
400	110-120			,12	,020			5,5	1.77	2.32							
30 I	120-130			,14	,015			5.6	1.93	1.93							
302	130-140			,11	,009			5.7	2.27	1.76							
303	140-150			.14	.021			5,5	2,28	1.38							
304	150-160			.20	,032			6.3	1.92	1.46					- >		
305	160-170			, 15	,020			5.8	2,21	1.34							
306	170 -180			,14	.021			5.8	2.20	1.89							
307	180-190			. 17	.021			6.1	2,10	157			· · · · · · · · · · · · · · · · · · ·				
308	190-200			,15	.028			6.2	1.91	2.32							
3ა9	200-210			, 13	,016			6.5	1.84	1.83							
310	210-220			.12.	,016			6.6	1.90	1-1(
311	270-230			٤١,	,018			6.3	1 99	1.17							
312	230-240			. 13	.016			6.5	1.93	1.06							
313	240-250	•		, 13	,015			6.6	1.90	1.21					-		
314	250-260			,12	,012			6.7	1,89	0.99							
315	260-270			, 13	,013			6,5	1.95	1.10			-				
316	270-280			.13	, 013			6.3	1.87	1.19							
317	280-290			. 13	,012		·	6.4	1.88	1.37						,	
318	290-300			, 15	.016			6.0	2.03	1.61							
(23)			X	.14	.017												
														,			
											-						
		·*····															
			}													'	

0/B 70'

ISSAY TAG.	FLOTALE	MAG	ROD	%C_	% M.	%Рь	%Zn	% Fe	%C	% S	ppm Au	PPM Au				
	10-80															
	80-90															
	90-100			ļ												
376	100-110			.17	,015			6.4	1.49	2.01						
377	110-120			.09	,009			6.2	1.77	2.31						
378	1 20 - 130			.14	, 004			6.5	1.69	4.14		_				
319	130-140			,08	,007			6.0	1.88	2.01						
380	140-150			,13	.004			5.9	1.85	2.91						
381	150-160		,	,13	.009			.6.1	1.73	3, 25						
3 BZ	160-170			, 11	006			6.4	1.67	2.92						
383	170-180			.12	.027			5.6	1.57	2,47			,			
384	180-190			.11	,013		,	5, 8	1.76	3,04						
385	1%-200			•//	,009			5.8	1,60	3.01						
386.	200-210			.10	.041			5, 3	/-38	3,02						
387	210-220			.09	.044			5.6	1.38	2.18						
388	220-230			.09	.020			6.1	1.28	3.15				ž		
389	230-240			. 07	.012			5,7	1.44	3.66						
390	240-250			.08	,004			6.7	1.09	6.88						
391	250-260			.07	1007			6.0	1.32	5.48						
392	260-270			, [[,009			6.6	1.08	5.66						
39 3	270-280			,12	,007			6.6	1.16	4.71						
394	280-290			.09	,006			6.3	1.32	4.28						
395	290-300			.078	,004	,001	,01	5.67	1.39	4.01			,			
			X	.10	.013											
(D)																
9											,					
									·							
															'	

ASSAY TAG.	FLOTALE	MAG.	R.QD	%C_	% M.	%Рь	%Zn	% Fe	%C	% S	ppm Plu	PPM AG			
322 ′	76-80			.01	.001	,001	.02	6.0	2.26	1.41					
323	80-90			,01	,001	1002	,01	5.4	2.30	4.27					
324	90-100			.03	,001	,004	,01	60	1.38	6.35					
325	100-110					,007	,02								
289	110-120			.05	,001	,003	.01	7.4	1.29	11.44					
290	120-130			3 ه.	,001	,007	.01	6.2	1.96	8 97					
29/	130-140			.06	,001	.001	,01	6.1	1-94	7.01					
292	140 -150			,05	,001	. 00 Z	.01	6.9	1.25	8.59					
293	150-160					,002	.01								
294	160-170			.01	,001	,003	.01	5. 7	1.42	602					
2 9 5	170 -180			.02	,001	1002	, 01	6.1	1.08	7.03					
294	180-190			ю 2	.001	,002	را در	64	0,92	8.57					
297 .	190-200			.02	.001	.003	, o <i>I</i> -	5.2	2.09	4.82					
298	200-210			,01	,001	1003	.01	6.2	0.76	7.88					
299	210-220			102	.001	,003	. 0 1	54	1.28	4.32					
300	220-230			.02	.003	1000	,01	4.7	1.14	3.08					
351	250-240			.02	,001	,002	.01	6.1	0.96	8.82					
352	240-250			,06	.001	,002	.01	8.1	0.40	11.79					
353 -	250-260			, 03	, 001	,001	ا ق	6.9	1.34	5.45					
354 (260-270			.06	.001	.004	.03	8.3	1.03	10.84					
355	270-230					.007	,01								
356_*	280 29 0			105	,001	,003	,01	8.1	0.86	12.65					
38400	290-306			.02	,001	,002	-01	6.5	1.84	5.56					
			×	,03	100										
	(53)														
														,	

Depth 271

ASSAY TAG.	FOOTAGE	MAG.	R.QD	% C _	% M.	%Рь	%Zn	% Fe	7.C.	% S	ppm. Au	PPM Au		,		
239	81-90			,092	,001			6.86								
240	90 -100			.115	,005			6.52	1.71	2.59				 		
241	100 -110			1090	,001			704	1.77	4.52						
242	110 120		10/00	.156	,003			666	1.81	3.44-						
243	120-130			.106	1003			6.36	1.76	2.79						
244	130-140			.082	.004			6.03	1.95	1.67						
1 45	140-150			1044	,001			6.61	1.76	3.67		***************************************				
246	150-160			,065	,001			6.54	7.01.	1.42.						
24.7	160-170			,066	,001			7.2.1	1.76	2.76						
248	170-180			,052	.007			6.58	1.99	1.43						
249	180 190			,062	.004			642	195	1.45						
250	190-200			.076	,002		,	6.37	1.97	2.28						
251	200-210			,073	.003			6.07	1.97	2.18						
252	210-220			.079	,003			6.28	1.91	272						
2 53	270-2)0			.078	, 002			6.31	1.86	3,39						
254	250-240			.082	.007			650	1. 21	3.32						
255	240 750			.099	.001			7.06	1.76	3.74						
256	250-260			.096	,co 2			6.61	1.87	3.71						
257	260-270		•	.092	,002		,	6.73	1.85	2 78						
258 .	270-211			,081	,001			6.53	1.86	2.94						
	(a)		×	,086	.002											
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HOIR: W-8

(MAG. SUSCER) ROD X10-3CGS (824")

		S/V/	<i>K</i>		- 884											
ASSAY TAG.			RAD	%C.	% M.	%Рь	2Zn	% Fe	7.C.	7,5	Ppm Pm	rom Au				
overburden	0-28												·			
easing bedrock	28-3°															
456	30-40	.82	33.6	.02	.003			6.8	1.83	0,10						
457	40-50	.14	51.2	.01	.002			6.7	2.09	.00						
458	50-60	,44	38.8	,01	,002			6.4	2,17	0.10						
459	60-70	.42	14.6	,01	,001			6.3	2.29	0.13						
460	70-80	,80	34.6	,01	,002			7, 5	1.93	.00						
461	20-90	.5٥	31.6	,01	.002			7.4	1.34	,00						
462	yu - 100	1.52	31.2	ا ن ۔	.000			7.9	1,21	, 00						
463	100-110	1.80	43.5	.01	,000			7.0	2.06	, oo						
464	110-120	1.30	14.5	.01	,002			7.2	1.83	.01						
465	120 -130	, 64	32.4	.01	,00 L		,	6.9	1.74	.01						
466	132-140	2.40	15.5	,6(,001			6.7	2.26	نۍ,						
467	140-150	. 24	56.5	,01	,001			5.7	2.49	1,10						
468	150-160	.92	38.4	,01	.001			8,2	1.91	0.43						
. 469	160 - 170	.42	20.6	.01	.00)			7.4	1.93	0.63						
470	170-180	. 78	17.5	,01	,00 !			7,5	1.82	.21						
471	180-190	,50	29.4	.01	,00 (7.0	1.95	.05						
4 72	190 - 200	.10	67.8	.01	,002			6.4	2,26	0.35					<u> </u>	
473	200-210	,08	859	.01	.002			6.8	1.99	0,39						
474	210-220	.02	61.1	.01	.003			6.2	2.30	0.57			المعليدة والمستعدد المستعدد			
	220-230	.14	51.9	ا 0 ړ	.002			7.0	1.91	0.50					ļ	
	239 230 - 24		35.9	.01	,001			6.9	1.69	0.14			والمراكة الكالم ومعلو			
477	239 250	.98	48.2	.01	,003			6.2	1.93	,01						
478	25U-2CW	.12	61.9	,01	.002			6.5	1.81	0.21						
479	26v · 270	,20	42.0	,01	,003			5.3	2,36	.27						
480	276 - 285	0.0	38.9	,01	.004			6.3	1:76	0.00						
481	230-270	.10	44.0	,01	.004			5.8	1.99	.01						
482	190-294	.13	31.3	.02	3 ده،			6.5	1.87	8.22					'	1

Hour: E-62

MAG. SUSCER. XIO CGS ROD UNITS (9024")

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ASSAY TAG.	FLOTAL	MAG.	ROD	%C2	% M.	%Рь	%Zn	% Fe	%C.,	7.S	ppm Pac	epm Ag	Au co-f			
173	147-150	2.20	73.3	.i9	.015	.002	.01	6.5	1.47	1.23						
194	150-160	1,30	73.1	.15	,013	.002	ا ں،	6.7	1.73	1.67						
195	160-170	2,20	53.3	.16	,018	,002	ا ں .	6.7	1.72	1.53			,			
196	170-180	1.60	5.6	.13	.014	,00 L	.01	6.7	1.63	1.04						
197	180-190	4.76	8.6	,09	,007	,003	, 01	7.1	1.70	1.05						
198	190-200	5.84	17.6	.09	.007	,003	, 51	7.5	1.59	0.96			1.030/			
199.	200-210	2.60	31.6	,13	,027	,003	.01	7.4	1.71	1.58			1.0%			
200	210-720	4.48	25.7	. //	.011	,000	.02	7.3	1.89	1.52						
426	220-230	5.90	45,2	.//	,007	1003	, oi	7.3	1,50	2.00						
927	230-240	2.26	433	.08	,006	, აივ	,01	6.6	1.82	1,63						
428	240-250	0.62	43.7	107	,005	.002	. 01	6.8	1.50	1.74						
. 429	250 260	0.74	45.9	,05	,005	,00 Z	، ۱۰،	6.9	1.62	1.00						
430	260-270	1.84	37.9	.09	1009	ر 00 ك	ا ن ر	7.3	1.40	2,24						
431	370-280	0.76	58,3	.05	1009	.001	,01	5.5	1.35	0.99						
432	280-290	1.63	63.0	,08	,010:	.002	,01	6.7	1.37	2.20						
· '433	240-300	6.64	44.0	,13	,012	,003	, 0/	7.6	133	3.95						
434	300-310	2,4-2	53,0	,13	,012	,003) ت ,	6.9	1.78	332						
4:35	310-320	2,54	31.7	,06	.007	.002	. 01	6.5	2.12	1.81			Í	***************************************		
436	3 <i>20 -</i> 330	3.96	37.6	.12	,014	,00 L	,01	7.2	1.46	2.99	,					
437	336-340	2.34	29.8	,09	,011	,002) ٥،	7.0	1.37	2.20			ŗ			
438	340-350	2.16	26.1	.07	,004	,002	۱٥,	7.2	1.16	1.39			7			
439	ه <i>کار-</i> 350	1.36	28,3	.23	,015	.002	ان,	7.1	1.55	3.63			-316/			
440	360 -370	1.21	27.3	.24	,010	,002	ا ن ,	6.7	1.38	4.39			.02			
441 .	370 380	1,24	24.1	.10	,009	, UUZ	101	6.5	1.63	3.55						
442	380-340	1.76	11.9	,07	,006	٠٠٠٧	ردا	6.8	1.68	2.81						
443	390-400	0.82	15.8	, 19	.012	ر مان	.01	6.8	1.47	3.23			023/			
444	400-410	1.48	40.9	.21	,019	.004	, ol	7. 2	1.38	8.00			025			
445	410-420	0.80	39.1	,10	.007	.013	١ ن ،	6.8	1.66	4.20						
446	420-430	2.56	22.1	.12	009	.004	,0/	1.6	1.60	415					1	



HOLF : E-62

ASSAY TAG.	FLOTAGE	iAAG:	RIGID	% C ¬	% M.	%Рь	12n	% Fe	%C	%5	ppm Pa	erm An	Comp			
447	430	1.20	27.5	,09	,013		,01	7.1	1.39							
448	440 450	2.30	26.1	1.11	,004		.01	7.0	1.54	3.86			1			
449	450-460	3.74	14.9	.08	,004	, ou 3	,01	7.1	1.39	4.08						
450	460-470	5.46	9.9	,08	,003	,003	13.	7.4	1.54	3.16		<u> </u>)			
451	470 480	2,00	11.5	,14	,017	.003	,01	6.7	1.57	4.85			1.022/			
452	480-490	4.44	2.9	,07	,019	,003	101	6.9	1.85				025			
453	490-500	1.47	15,4	.12	,018	,003	. 01	6.4	125	1.93			7			
454	500-510	5.14	40.5	.06	,008	, <i>0</i> 0 3	.01	6.4	1.66	3.55						
455	510-515.5	6.65	36.0	. 0 4-	,003	,003	.01	7.3	1.84-	1.83						
			Ž.	,11	.011											
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HOLE NO. WP -5 PROJECT: ISLAND COPPER CASING COLLAR ELEV.: 1204 GROUND ELEV. : DATE STARTED: TULY SCALE: 1"=10" 24, 1984 DATE PINISHED: JULY N. 17038 COORDINATES: 16809 LOSSED BY : GAC -90° TOTAL DEPTH: 110 **ASANDONSED** BEARING INCLINATION: AVE CORE REC'Y / HOLE ALTERATION COMMENTS: DRILLING INTERVAL % CORE RECOVERED SULPHIDES FRACTURING MINERAL GEOLOGY SECTION DESCRIPTIVE GEOLOGY 0-110 ' over burden cased to 100' and drilled to approx 110' without hitting bod rock.
aboundaned at 110 feet GEOLOGICAL ASSESSMENT BRA

	LE 100. BING. C		R E	LEV.		119	PROJECT: ISLAND COPPER PAGE NO: PROJECT: ISLAND COPPER PAGE NO: PAGE NO:						
me	BLIMATI	on:	•	-90) •		BEARING: TOTAL DEPTH: 300 LOGGED BY:	G AC					
	ALTE JUNGAL	RATE OF THE STATE	(19)	ACTURING	MINERAL	GEOLOGY	COMMENTS: AVE CORE REC'Y / HOLE G O L O C DESCRIPTIVE GEOLOGY	Sull phetoes	DRILLING IN FERVAL	RECOVERED	SAMPLE	SAND INT	ESTI MATE
	O V	7 8	8	3 4			0.70' O.B. no samples.					_	
•	w ·	Š	XM				70-80 slee it and ned gry-gra wk chi, mad epi atth mind mag vito and poss. mag replacing by, minor orange /pnk see.	3.5% FY.					***************************************
	7	40) (p	Ŋ		39	80.90 same 25 70.80 less mag. some good cpy with py/api	3-57	8				
)0 -	W		(0))			90-100 similar to 70-80 chladt no epi or mag uninor cpy acc blk bio? ulittle 300.	37.					
•	m /	y .				PL	100.110 gig fig. sics and most sent /chil out? Ty langually on fracts.	2 % TY					
10 -	MA	n					110-120 same as 100:114 inel poss PLS PSS 300 (white) frac fling.					, as a special confidence	

DLE 'N ASING DORDII	COL	LAR 8:		v,:		GROUN M. Bearing:	PROJECT: DATE STARTED: E. DATE FINISHED: TOTAL DEPTH:	PAGE NO: Z REP. TO CLAN SCALE: LOGGED SY:	e commi	,		who are difficulty			
ALT		a	<i>F</i> ()	FRACTURING	GEOLOGY	COMMENTS	DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE	% REC'Y. SAMP INT.	ESTI- MATED
W	€01)	M/B	340		93	120.130	Some as 100.110 exapt no PhS poss d.	meg.	F22 17						i i
Μ	W	N	W r		8	130.140	grangey and sles, mad ell alth, 2-5 % prominor mag. no vis cpt we sar alth.	imary(?) biotika	1-22 Pr						
A	W	M			Ç	140-150	source as 120-140 - minor cpy. Mad mag.	aan i gaar did didda, iriqa bara dida aan aa diina aa da	17.				,		.12.
M	3	W				150-16	same as 130.40 finer growned sample, higher low py content, some vtg cpy v. minor epi, w	% white frags. k mag alts	1-22						147
W	M					160-170	vifig. sample. mad gry and. alaund U ea 1955 cpy vfg nod son all alth.	Juna frags	٠ ١	3		un bahaini		1. 1145,	
+	М	Ø	(v)			174-180	same as 160-170 non-mag stly limy	v.m.Mor afi.	<1)	2					

NE'NO. WP-CO NEING COLLAR ELEV,: HOROHATEON HELINATION:	PROJECT: OROUND ELEV,: DATE STARTED: DATE FINISHED: DEARING: TOTAL DEPTH:	PAGE NO: 3 OF 4 REP. TO CLAIM CORNER: SCALE: LOGGED BY: GAC
FRACTURING WOLLERAL MINERAL	COMMENTS: DESCRIPTIVE GEOLOGY	SUL PHIDES BRILLING INTERVAL % CORE RECOVERED CORE SIZE SAMPLE INTERVAL % REC'Y
M & &	180-190 - same as 170-180 - U little 300 mod cp wk she sear, mad chi alth, poss. man,	
m w	190-200 same as 120-180 styll ben have the minor 300 vilous sulphides	m?) rod qtz
M M & WH M	200-210 gardrelly v.l.g. («.l.m.n.) but acc chip to 2.5 n and 3n and mod son, chi alth. course 11 topy and 510s gry appearance. 1-3 chips have < 5% appearance. Mod bio apprimary)	ar chips have 1-2%
m a mp	210-220 , some as 200-210 sles v.low sulf	ph, non time
m m Mp	220-230 same as 200-210. The less bio, v. mi acc -pak fsp. and white 300, acc patch Note here and "garred" as noted 220-300 je likely ru	nor sulph. tour site. 198 199 199 199 199 199 199 19
N M Np	230.240 same as 220.230, pass garnet, 5.10% (AND)? Occ speak cpul.	bio (prinary) <.5%

LE NO. WP-G ISING COLLAR ELEV.: MRSHIATES:	PROJECT: OROUND ELEV.; DATE STARTED: N. E. DATE FINISHED: DEARING: TOTAL DEPTH:	PAGE NO: # REF. YO CLAIR SCALE: LOGGED BY:	CORNE	1					
MINERAL GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE		DRILLING	ORE FRED	CORE SIZE	MPLE FRVAL	% REC'Y. SAMP INT.	ESTI- MATED
FRACTURING MINERAL GEOLOGY	DESCRIPTIVE GEOLOGY		SULP	DRIL	% CORE RECOVERED	ည်း	SAI	% R SAME	
WUM . Wh	240-250. Sent as 200-210, occ have she as frags. (e poss mag. med sar, which alt	me to drilling?)	₹5 2	•					
N 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	150-260 Vfg sample. gry grn and : 5ks. mod corminar pak for a (or 300?) 5-10% bio (princary) brn stn (2 nd ry bio) 50/50 speat light i back d	t chi alta plus ====================================	<.22						vene auva na diserbi
мм	260-276 Jane as 250-260, mod chl alth pos	s mag.	٧, د ا						
м	mod chl alth. Light glups 2:1 gtz/fsp+8es	k chips	4.7						
C	280-2000 similar to 250-260, med. str sar alt	60/40 L#/dk	<.22						.1
	270.300 same as 250.260 60/40 Ut/dk rodu Muser minor ham.	way zam	<.22					*****	Community to the

DINATÉ MATION	e d	14 m	14.	107 0°	N. 15.79) E. BATE PINISHED: JULY 25, 1984 BEARING: TOTAL BEPTH: 300	LOSSED BY:		_	·	ī	- I	T	ESTI-
LTER	ATK	24.)2	ACTURING	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	RILLING TERVAL	o CORE	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP INT	MATED
722	mAgn	8001	FRAC	GE(DESCRIPTIVE GEOLOGY						. · · · ·	%%	
					0-100' , overburden met sampled. (may have been soft (sedrocte 70-100' to 50mplod)	GEOLA BESES 444 to	G S A	I C	A		3 R	A P	N C I O R T
4.		₹ **								>			6
7	V :	(3)		Q!	minor cpy, no chi alt, al bry str (2"") Some apri	mad s ks sio?)	27.						.2%
	* 1				110-120 same as 180-110, mod chi olt". Minor 3	eo and outzite.	3-57						• •
พ พ		× 20.0			120-130 same as 100-110 etups +0 fram 10-15% bio	(primory)	3-57 14	3					.1
n					130-140 same as 180-110 - oce pyroxane xto alth, minor Upale pak 200. Very little api	4, mod chl	3.5	2			-		.05

LE NO. WP-7 IBING COLLAR ELEV.: PORDINATÉS: IGLINATION:	OROUND ELEV.: N. DEARING:	PROJECT: DATE STARTED: E. DATE FINISHED: TOTAL DEPTH:	PAGE NO: A REF. TO GLAN SCALE: LOGGED BY:	I CORNE	•					
FRACTURING MOLEVALTE	COMMENTS:		AVE CORE REC'Y / HOLE	SULPHIDES	RILLING TERVAL	CORE OVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP INT.	ESTI- MATED
FRAC	39	DESCRIPTIVE GEOLOGY		SUI	οz	~ %임		o <u>z</u>	%&	
m (W)	140-160 saw	e as 100-110. poss pyroxene or ell ofter p-11 ser alth.	Oxane.	2% P1						.10
m 😭	l 1	illar to 100-110 more stes, finer chips (2.5m	m)	2% Py					material de la constantina della constantina del	. 15
m (M)		nell as 100 (primary) bio minor calcide.		4-22 Py						.05
M W	170-1 20 5	initian to 100-110 - shore sles, med zeo or alth. pass mag.	, wk	3%						.07
4 (6)	1 1 ' -	t gry gra andasite 50/50 split light /dark orn sta mod ahl alth 220% 9th frags. min ce calgite. chip size 1-2 ma	chips. or zeo	1-22						.,
	190 - 200	Jame as 180+190, miner api		1%						4,0

LE NO. WP- SING COLLAR IDEMATION: OLINATION:	evev,	;		PROJECT: BATE STARTED: N. E. DATE FINISHED: BEARING: TOTAL DEPTH:	PAGE NO: 3 REF. TO CLAIM SCALE: LOSGED BY:	CORNE	4					
ALTERATK	N NO	MINERAL	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	X SULPHIDES	DRILLING	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP INT.	ESTI- MATED
w w	(F)			200-210 Same as 180-190. mod chl, bio alth. Frag ratio wik sam alth	40/60 H/AK	2% e1						
W W				210-220 same as 180-190 wk-mod car, mod chl 5-10% pale pulk 300 60/40 47/dk aplit.	auth	2%						
M M				220-280 U-qtz rich - 30-502 of chips one white qtz. intrusive? Jk progs similar to 180-190. Elly analysite poss minor mag chip size notably comman - 2-4mm.	. mod chl (+bio?)	4%						.08
)				250-240 Similar to 220-230 grains to 8 mm grains appear to be ser (tell, ± bio) alt fep + 913 Ktobs in making gd mass. Xtols a more may	intr with	37.						<.05
(6)				240.250 cores grained (to 1cm) to-chips, similar to use 9t3 (15%) probably f.g. alt intr.		5%						• 1
MW	(\$)			250-260 finer chips (1-1.5mm) with occ larger one. Larger those 230-240, smaller ones with bio, with ser 300 + smaller ones 10-2070 9th.	p affer resemble to the state of the state o	1-29	à					4.05

ME NO. WP-7 PROJECT: CASING COLLAR ELEV.: MOUND ELEV,: DATE STARTED: REF. TO CLAIM CORNER: SCALE: eroran ates: DATE FINISHED: LOSSED BY : CAC TOTAL DEPTH: MIGLIMATION: ESTI-AVE CORE REC'Y / HOLE ALTERATION COMMENTS: DRILLING INTERVAL % CORE RECOVERED MATED SULPHIDES SAMPLE INTERVAL % REC'Y. SAMP. INT. FRACTURING MINERAL CORE SIZE SECTION **GEOLOGY** DESCRIPTIVE W 260.270 chips mostly <.5 mm of chips higher coloned (grg / fisp / 3eo + ser alt) chips 0.2 to 0.4 nm, largely high coloured. 270 - 280 occ larger (2.3 mm) bio and alte aliq .10 <12 minor cpy 270-280, no cpy, poss api? 20-290 <,05 £.5% to screen & mound for examination. 290- 100 No/Sample and of hole

nonan nonan nonan	1		-10 LEV	.: -9	H78 34 5*	enound elev.; H. 15,620 E. BEARMS:	PROJECT:] BATE STARVED: BATE FINISHED: TOTAL DEPTH:	Inch is		R(EF. TO CLAIN CALE: \":	# CORNI						3
ALT	ERA	riot	201000000000000000000000000000000000000	MINERAL	GEOLOGY	COMMENTS:				REC'	E CORE Y / HOLE	SULPHIDES	DRILLING NTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE	% REC'Y.	ESTI- MATED
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			ž Č			DESCRIPTIVE	GEOLO	OGY			-	-	~				
4. 4.	}* \$*						0-76 Overbuiden											* * *
4	State of the state					· micro : hosa	ok gryingra to blk . Ig ch lt - fg. Jk gry. 30% d ahl att miner epe	ips 40 1/2 C	holi, pose bio	†								· · ·
			1	T	+	1912 1	thic tuff chips.						,				·	
						80.90 maga micro:	med gry gin occ with as along sub to exchange	andesita i e chi i Khals.	J. minor api Stry code.	3.5% P	مهد.					1000 4		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	,	1				10% 91	ed gry gra and to the act minerals, so we had could be sphulevit	20 py as	s discominations									
The second secon						100-110 Pg. man 30% WK	gry and? al brown be min's 5-72 py as disachl alth	, Vales	11 hua.									
*	3	6				110-130 V A g may and garact	It gry gre andersite. icate freetming. 10%		alt ⁿ -minor. bon stah								. 90.44	- 2

COCHUNATES: MCLINATION:						N. DEARING:	t.		DATE FINISHED: Total Depth:		LOGGED BY: GAC							
ALT	ERA	TIO		MINERAL		COMMENTS:					AVE CORE REC'Y / HOLE		SULPHIDES DRILLING	CORE	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP INT.	MATED
		7	2010	T KAC	GEOI			DESCRIPTIVE	VE GEOLOGY				SUL	RECO	ပဖ	SA	% F	
, p	,					110-130 : V, 3,	9 and no minor cale (may and read		1-10% Py Po 1 has a tal	se miner s								
		と 一般ならいない				130-140	no hbi	, 6% P7,	سليطنا (دلعمما	?) bak								
		河 大明 山北人民				140 -150	4.9 and . Uninor equi, we colcite	, 5% py , past	a hue (bio	-	, umakka harista da uma egistin, er in er entekn							
						(40.150	uk sorie	, pose cpy.	very little box	edoù.								1936/1988 (b) 19
						5 0-1 7 0	as 140-11	to minor q	ericulai, no úis 2 + flósp — po	is chi alt-								
1				1		170-180	1 lg chip (\$	imm) sles and sles, u gn - U	that is like (mag) tour would, him e) natriu.	hio?							200 A

ELE NO. WP-10 ABINO COLLAB ELEV.:	enound Elev.; N. E. Bearine:	PROJECT: BATE STARTED: DATE FINISHED: TOTAL DEPTH:	SCALE:	REF. TO CLAIM CORNER:									
ACTURING MOLENATIVE MINERAL GEOLOGY	COMMENTS:		AVE CORE REC'Y / HOLE	* SULPHIDES	DRILLING	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL % REC'Y.	ESTI- MATED				
FRACTURING MINERAL GEOLOGY		DESCRIPTIVE GEOLOGY		SULP	DRIL	RECO	ပ်ဖြ	SAMPL INTERVI	SAM				
	3% P7	s 170,180. Slightly more bon (gains , who cole.							1				
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10.200 coleiti	and abund cole, we see, 2.3% py	ellath eligh bra					·	1 .				

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	200-210 Utino	souple size. some as 190-200. Co											
						·							
# 1	210-220 samu 1 fra 1 fra 1 fra	g 1dd people and or based & fisp g (4mm) possible tell texture : c	phenos to .5mm. sets to 1mm _ser elth.										
	220 230 50mb	as eso.210. acc Ik.gn. frag hem an some frags	-chlout ^g and,						, .				
	290-240 - same	u, minor mag	chl ink ser alth										

PAGE NO: 4 PROJECT: GROUND ELEV. REF. TO CLAIM CORNER: BATE STARTED: SCALE: DATE FINISHED: LOSSED BY : GAC TOTAL DEPTH: BEARING: AVE CORE ESTI-ALTERATION COMMENTS: REC'Y / HOLE DRILLING
INTERVAL
% CORE
RECOVERED
CORE:
SIZE MATED SULPHIDES FRACTURING SAMPLE INTERVAL % REC'Y. SAMP INT. MINERAL GEOLOGY SECTION GEOLOGY DESCRIPTIVE vf. 9 sample. and: light yry-gra chi alth + wk sar alth. 210.250 52.17 pms 300. y minor epi mad gry.grn and poss lith tull frags mod ohl sor alth 蔽 250 -260 232 py some 300. V. minor opi-250-260 - finer pourticles. minor mag que 260.270 57 Pr , no apr son I this year (smm) "books" 270.280 . I fine particles. similar to 250.260 . str sor alt. - light (9/2/fep) grain, more abundant than 250-260 due to finer size . occ mage to grain. poss spack cpy. 1% PY 280 -290 same as 250.260 str Ear, mod chil att 6.0% Py. good cale minor opi. 1.9 sough grains ? high light bank mineral radio. as 280-290 , 12 py . whos Zeo.

T	LTE	RA1	rioi	7	- T	T	DEARING:	TOTAL DEPTH: 271 LOSSED BY: (AVE CORE	G AC	- T	Ī			Ŧ
				Onioi Luyes	FRAI	GEOLOGY	1	REC'Y / HOLE	MADES	FVAL	ORE	PLE PLE	E C. N. ≺	
2				2018	3	OEO		DESCRIPTIVE GEOLOGY	SHAPA	S N	REEG	300	300	
		1		1			0-81	overburden no samples					-	
	,	Jac 1 347							Ø					
13		京 京田 東京					81-90	Presh looking not-dk grn V.A.g. endoeste. Slcs gry aphenutic gdmass with our pyronems or play ktol. up to pr. 5 mm. xtols proofly developed or possibly attly alther which alther poss v.wk saralthere mag.	7-10%					
	Market Company of the	こう のできる 人間の ない	一个一个一个一个				90 -180	some as 81-90. 3.5% f.g. blk bio (.2mm) by xtals to	3%					
· · · · · · · · · · · · · · · · · · ·	The second secon	· · · · · · · · · · · · · · · · · · ·					0))~ 00)	same as ac-90 2nd(?) by xtale to com	5-7 <u>2</u> 14					
	The state of the s	このおか 利食がある	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				[16-1/20	similar to 81-90, more sks., occre.g. (+0.5mm) epgs possibly assoc with mag.	3.57					+
1				<u> </u>	T	1	120-130	similar to 81-90. menor may occ dionite looking trongs with play stab to 3 mm and pythonous + bio (trong?) interestition, minor may	32					1

NE 110.	COLLIA	3 9 -1	LEV.: GROUND ELEV.:			enound E		CLAIM CORNER:							
OLINAY	TEO:					n. Bearing:	E. DATE PINISHED: SCALE: TOTAL DEPTH: LOSSED BY:	GAC							
ALTE	RAT	ION	RING	RAL	OGY	COMMENTS:	AVE CORE REC'Y / HOLE	SUL PHIDES	LING RVAL	ORE ÆRED	CORE SIZE	SAMPLE	EC'Y.	E:	
			FRACTURING	MINE	GEOLOGY	-	DESCRIPTIVE GEOLOGY	SULP	DRIL	RECOV	ပ်က	SAN	% R SAME		
	* * * * * * * * * * * * * * * * * * *	,				150-140	same as 81-90 miner mag., some pale park 200 - likely frac flags. Commonly ember py (to.1 mm) assec with and calcide.								
19 日本の東京の東京の日本	The state of the s					140-150	sans as 8190 minor calc mod mag	< 22						<,	
· · · · · · · · · · · · · · · · · · ·			,			150 - 160	some as 81-30 - mod chl, are 9th blab (or underhaustoped Ktol) to 1.5mm. potchy mag.	<2							
	され 明治情報 議権を言	10年				160-170	sample local						· · · · · · · · · · · · · · · · · · ·	.,.	
	The second secon	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				170-180	some as 81.90, perchy moderate may we seen who made all	39	o						
						180-196	same as 81-90 wk mod ehl, mag alth, mod sles thip size 1.3 mm.	22							

COCREMATEDY						N. DEARING:	8 .	E. DATE FINISHED: TOTAL DEPTH:					BGALE: LOGGED BY: CAC								
	ER/			RAL)GY	COMMENTS:						AVE CORE REC'Y / HOLE	IDES	LING	ORE ERED	RE ZE	IPLE RVAL	SC'Y. INT	ESTI- MATED		
				MINERAL	GEOLOGY			DESCR	RIPTIVE	GEOLOGY		. '	SULPH	DRILL	NOCE	CORE	SAN	% REC'Y. SAMP INT.			
e e			117			<u> ዓ</u> ۰.አ ຜ .	similar to	91-90 - 1	cs with ou	emy ary at	3 minor	Caleila.	2%						.02		
A Commence of the Commence of		10000000000000000000000000000000000000				500 ×10	James ass gtg + light con	erigo, fi	nod sar	size (.5-; alt ² . wk.	mod.	Lund	3%				*		.05		
The second secon		が 100mm 10		`		219-220	\$0~~4	as 200-210	, minor 3	, OCE	blk bio.		5%						. 05		
一年間			ないない。	3		220 230		inar cole.	210 MO	d mag.	geo and v	born buk	3-4						.02		
大 一 本 人		一年の日本 と 一直を				230 - 240	vig c	hip sign (5) 1 9tz + 300(or a .smm and fsp?) chi) simula ps	to 200-	210 but more	35,								
學工程					1	140-250	J \$ (M)	clay to	230-240	MANNY	sale, mod	Son all!	392	•	-						

LE NO. IGHIG G IGGGHIA GLINATI	PER	eu	iv.;			eround E N. Dearing:	LEV,	PROJECT: BATE STARTES E. DATE FINISHES TOTAL DEPTH			-	REF. 1 Scale Losse	D 8Y:			r		7		
ALTE			FRACTURING	MINERAL	1	COMMENTS:						AVE C	ORE HOLE	X SULPHIDES	RILLING TERVAL	CORE	CORE SIZE	SAMPLE TERVAL	% REC'Y. SAMP INT.	ESTI- MATED
	数ない		FRAC	3	3			DESCRIPTIV	•					SUI	οz	%G		≥	%\$	
		ないない				250 - 160	•	some as 230-240 chips smaller theyler pro occ placks may.	(composition of quality saw /ch	n sema as 13 chips) 1 olth	8 1 -°	go bus		6.7.						
· 通過の (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		(4) (4) (5) (5) (6)				260-27	'o 、	same as 250-260	oce pri	t fep in		nag;		5%						•
		建物 珍食				270-7	271	same as 260-260 fine Thip sign (60 Juday Jal, norts	mod m % < 4 mm) mag	due to s cks. > gre	hort Line.	cample		5%						• 1
	事業の政治 でをみご						4													
	The second of the																			

	HOLE NO. W	ELEV,		GROUND EL	EV.: 1233,1	3.1 DATE STARTED: July 23,1984 REF. TO CLAIM						CLAIM CORNER:										
	COORDINATES:			BEARING: 19	B°	TOTAL DEPTH:			LOGGED BY :			101	lan	J								
SECTION	Chlorite Sericite Population			COMMENTS:		DESCRIPTIVE	RQI (*4))=40 %	AVE CORE REC'Y / HOLE			% CORE RECOVERED		INTERVAL % REC'Y	ESTI- MATED %							
			0	0	0-1	Stick-Up		G E S	OLOGI SESSM	CA	L	8	RA	N C O R	特							
-/0			000000000000000000000000000000000000000			- Overburd Casing not 1		1					5	E								
-3		1	000		30-	- CASING IN a P94' - FRAGM Andezi - is a Formation - it is possible to fragments - color variation the dark grn has he	MENTAL BRE te Porphyry hal Valcanie bree that the And F on is dark area emetitic (piple) staining	orph. Zoi	ne are		35	83	U		20.05							
4	Weak (phenos	- Seak	1	Jon cal vn	30	- fiting weak - mossiphides in the alth is region - 48 - Andeside was a sold of the phe	v. Weak -minor ehlich the in the pale gra- colored voices -m s -3-4mm -all fish g or firt healing c perphyry and 21% nall-greenechist f Perphyry - dk greenes, than aphanit	present which is not to present t	agnetic. sa py in the broce thydrothernal surple matrix.		##-	100	NQ wireling	5	20.05	-						
	X poly		L'A C	D	49	-12 - Fragmentél græn to purple, sub size. Minor hem on fractures.	~ P & D & A P & A	~ T3 VP "	•	717		100			<0.05							

PAGE NO: 2 OF 5 HOLE NO. W-8 PROJECT: Z.C. REF. TO CLAIM CORNER: CASING COLLAR ELEV. GROUND ELEV.: DATE STARTED: SCALE: COORDINATES: LOGGED BY : TOTAL DEPTH: INCLINATION: ESTI-AVE CORE ALTERATION COMMENTS: REC'Y / HOLE MATED FRACTURING MINERAL GEOLOGY SECTION Cu **GEOLOGY** DESCRIPTIVE FRAGMENTAL BRECCIA cont. 95 65 20.05 ∞ 70 72-87 - Intense hemetitic staining of the fragmental icm cal un 73 Δ 2005 * calcite on fits 100 -80 80 85 10.05 - shear zone w pale green gouge 77 89 87.0-103.5 - dk green to purple colored fragmental brax. 95 - mod hemetite staining of matrix 40.05 96 100 103.5 - 117.0 - dark to pale green Andesite Porphyry & epid 20.05 106 100 113.57 20.05 117-123 Interse hemetitic staining of the fragmental Brax. 00

PAGE NO: 3 OF 5 PROJECT: I.C HOLE NO. W-8 GROUND ELEV, ; REF. TO CLAIM CORNER: DATE STARTED: CASING COLLAR ELEV, SCALE: ₹. DATE FINISHED: COORDINATES: LOGGED BY : TOTAL DEPTH: INCLINATION: ESTI-AVE CORE ALTERATION COMMENTS: REC'Y / HOLE DRILLING
INTERVAL
% CORE
RECOVERED
CORE
SIZE MATED FRACTURING MINERAL GEOLOGY ナっちいとり CU GEOLOGY DESCRIPTIVE FRAGMENTAL BRECCIA cont. 100 20.05 123.0 -128.5 - dk green colored fragmental Bree 126. 128.5-135 - dr green colored Anderite Porphyry wend and chi ait's of the fop phenos -130 133 135-138 - str. hemetite staining of the freg. brxx 40.05 97 138-142 - Fault zone w strong calcite healing Faut zone @ -140 350 to CA 142-233 - Pale green matrix to frage of red stained and (00) dark green fuffs. Minor zones of dkgreen 1005 colored netrix. . I'm calcite veins common -150 100 40.05 156+ 100 160 1605 * Breccia is a formational Brxx. 40.05 * Fragments often reach 5-6cm in size. All 170 subrounded. 100 2005 176

HOLE NO. W-8 CASING COLLAR ELEV, GROUND ELEV. REF. TO CLAIM CORNER: SCALE: DATE FINISHED COORDINATES: TOTAL DEPTH LOSSED BY : INCLINATION: AVE CORE ESTI-ALTERATION COMMENTS: REC'Y / HOLE DRILLING
INTERVAL
% CORE
RECOVERED
CORE
SIZE MATED FRACTURING SAMPLE INTERVAL % REC'Y. SAMP INT. MINERAL GEOLOGY GEOLOGY DESCRIPTIVE FRAGMENTAL BRECCIA cont 183 100 20.05 197 -190 - pale green colored matrix to subrounded purple and dark green frags ranging from 83 5mm to 5-6 cm in size. Minor pyrite in the 40.05 197 -some frags are strongly epid, alt'd 200 100 * weak regional greanschist alteration. 205 40.05 % -210 1 5 cm cal un 800 * pretty dry rock. 215 10.05 200 219 20.05 225 100 -230 233-237 - Shear zone 234 40.05 shear zone -no angle noted. 90 237 237-258 - dk green to purple frag. brxx. 100

- HOLE NO. W-8 PROJECT: T.C. PAGE NO: 5 OF 5 CASING COLLAR ELEV, GROUND ELEV,: REP. TO CLAIM CORNER: SCALE: COORDINATES: LOSSED BY : TOTAL DEPTH: INCLINATION: AVE CORE REC'Y / HOLE ESTI-ALTERATION COMMENTS: SULPHIDES
DRILLING
INTERVAL
% CORE
RECOVERED
CORE MATED FRACTURING MINERAL SAMPLE INTERVAL % REC'Y. SAMP INT Cu DESCRIPTIVE **GEOLOGY** FRAGMENTAL BRECCIA cont. ZUX. 2005 248 -250 20.05 255 258-268 - pale green colored fragmental breezia -260 2614 20.05 -> 3cm cal unit. Burte 269 268-291 - dark green to purple colored breckia 210 95 20.05 275 @ 280 the epid around the fits increases -280-280 100 20.05 286 291-294 - pale green colored breezia. 75 -290 20.05 294 End of hole

н	ICLE NO. E	-6	2				PROJECT:	sland	Copper	PA	BE NO: /	OF	8					46			
c	ASING COLLA	R ELEV	, :		GROUND ELEV.;		DATE STARTED:	Aug	13, 1984	RE	F. TO CLAIR	TO CLAIM CORNER:									
	COORDINATES:	140	42		N. 17294	E. 1200"	DATE FINISHED:	Aug.	16,1984		ALE: /					,					
,	NCLINATION:	- 00	32	•	BEARING: 198°	•	TOTAL DEPTH:	5/5	.5 ′	LC	GGED BY :	G.	L - F	10/1	and			_			
SECTION	ALTERAT	10N	MINERAL	Ī	COMMENTS:				re R.Q.D. 4")=32%	REC'Y	CORE HOLE	% PHIDES	LLING	CORE	CORE	ERVAL REC'Y	ESTI- MATED				
			T KAC	GEC			DESCRIPTIVE	GE	DLOGY	G	EOL	Sur	7 1	~	36	NE %	SAN				
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120																					

PROJECT: Island Copper. HO!E NO. E-62 PAGE NO: 2 CASING COLLAR ELEV, GROUND ELEV, : DATE STARTED: REF. TO CLAIM CORNER: DATE FINISHED: SCALE: COORDINATES: LOSSED BY : INCLINATION: TOTAL DEPTH ALTERATION COMMENTS: AVE CORE ESTI-REC'Y / HOLE MATED FRACTURING DRILLING
INTERVAL
% CORE
RECOVERED
CORE
SIZE SAMPLE INTERVAL % REC'Y. SAMP INT. MINERAL GEOLOGY % ECTION chlori Cu sec. DESCRIPTIVE GEOLOGY U) -120 -130 -140-20.10 -mod to str alt'n - clasts often visible
- wk potossic phase - pervasive chlorite predominates & sec. bio
as salvages around fractures. V. weak silicification. Epidote
is present with the pyrite in fractures 150 -150 67 - color - dk green wa brownist he where see bio present - fracturing moderate w most fits healed w 912; py; and 912-carb - fracturing moderate w mos. - 40-50% of fractures are open. 40.10 - moderate pervasive magnetite w numerous mag rick vns. 157 - sulphides generally confined to Pots, but in short sections of 71 strong attraction the pyrite is disseminated as well - Minor Most ropy assoc with larger qtz rationarb uns - qtz 5/w weakly developed 160--el->2 cm gtz-carb un ۶ ۲ 100 N >2 am gtz-carb vn w brow 40.10 * Minor sericite present wich on minor fits 167 0) 0 - 3 cm atz un 170 171-213 - Several broken up section in the core 65 30m gtz vn 3 Mosz 40.10 175 -> 20m atz-carb un > 10 cm gtz-carb vn w brax'n 177 - Possible shear w 6+z-carb healing > Zem gtz vn To Mo52 100

PAGE NO: 3 OF 8 PROJECT: I.C. HOLE NO. E-62 REF. TO CLAIM CORNER: GROUND ELEV, : DATE STARTED: CASING COLLAR ELEV, SCALE: E. DATE FINISHED: COORDINATES: LOGGED BY : TOTAL DEPTH: BEARING: INCLINATION: ESTI-AVE CORE COMMENTS: ALTERATION MATED REC'Y / HOLE DRILLING
INTERVAL
% CORE
RECOVERED
CORE
SIZE SAMPLE INTERVAL % REC'Y. SAMP INT. SEC. 5.0. L MINERAL Cu GEOLOGY DESCRIPTIVE 181 ALTERED ANDESITE cont. - Icm gtz-carbyn Depid 56 7-> 2cm shear w brxx'n 185+ 40.10 88 gemshear zone is glz-carb & Moderate alth. - weak potassic 189 OP1 - epidote w py on fits -190-13/ 153 * Rock is strongly broken up around the shear zones noted to a depth of 213. - 1.5cm gtz un to Mosz 0.10 197 * Otz 3/w weakly developed. - 2cm gtz-carbvn 200 97 -> 7cm 9tz vn out by 2cm 9tz-earb vn. Weak Purite fits cut atz-carb uns which cut atz uns. 0 40.10 -no offsets noted. 0 207+ 2 sem atz vn 210 3em atz-carb uns -210-212 * Moderate pervasive magnetite 0.10 100 216 220 - increase in fracturing combined wa a minor althe change. End of sec. bio, and slight increase in sericite around the fractures we chlorite 100 - firts healed w H/L atz-earb uns 3cm gtz vn wepy. 0.10 > 8cm shear waterearb 226-230 100 -23m - 1cm qtz-carb vn 233+ 235 - Increase in silicification ote-oarbuns devel. 40.10 a pinkish stain (laumontite?) 100

PROJECT: I.C. or 8 HOLE NO. E-62 PAGE NO: 4 GROUND ELEV,: REP. TO CLAIM CORNER: CASING COLLAR ELEV, DATE STARTED: SCALE: E. DATE FINISHED COORDINATES: LOSGED BY : TOTAL DEPTH: BEARING: INCLINATION: ESTI-AVE CORE ALTERATION COMMENTS: REC'Y / HOLE MATED FRACTURING DRILLING
INTERVAL
% CORE
RECOVERED
CORE
SIZE SAMPLE INTERVAL % REC'Y. MINERAL GEOLOGY 6,0 2 SULPI chlori Cu ec. **GEOLOGY** DESCRIPTIVE (i) -24C ANDESITE ALTERED cont. * Pervasive silicification shows very gradual increase from 285 towards contact \$ 273 . Julphide content increases towards contact. More dist than before 0.10 247 strigtz carb in - moderate pervasive magnetite 250 -250-> 20m atz-carb un w 98 + 0.10 ~ -> 3cm atz vn 257 v = 2x 3cm qtzvn 3 ď 260 01+ -> 1 cm qtz-carb un 0 W 0 L * Qtz s/w gradually increases towards % contact. 0.10 266/ Zem atz-carb vn. 100 -270 intrusive cue 46"to c. 4 intrusive contact @ 45° to. C.A 272 . 19 273 273-282.5 - QUARTZ-FELDSPAR PORPHYRY 100 -40-50% phenos -20-30% fsp -> ser (2-4mm) 40.10 P Y YO g (5-6 mm) 277 \geq -> Icm py vn 10% mafies + chitpy (3-4mm) N - dilicious, aphanitic matrix w pink staining
- qts shu seak, fitting weak
- 2% sulph (py) generally confined to altid matic phenor w minor
uns of fit filling ind 3 -2ROH intrusive CN @ 80° to C.A 100 282.5 - E.O.H. ALTERED ANDESITE -1.6 cm gtz-carh vn -alteration same as above contact -strong -silica -chl to sec bio as envelopes on firth 010 - pyrite vas in fats get larger - up to 0.9 cm. - qtz siw moderately developed: >2cm gtz vn wmag 4) 287 -qtz-carb une less devel than above dyke. % -2-3% py -mainly in fits but in stronger altd ď ď 7 3 zones as disseminations 98 (1) - 1.6cm py un. S D = 2cm qtz un 0.10 0 0 > 15cm chear healed w qtz-carb. 4 mag vn. 297

PAGE NO: 5 OF 8 PROJECT: Z. C. HOLE NO. E-62 GROUND ELEV. REF. TO CLAIM CORNER: CASING COLLAR ELEV, DATE STARTED: SCALE: DATE FINISHED: COORDINATES: LOSSED BY : TOTAL DEPTH: INCLINATION: ESTI-AVE CORE ALTERATION COMMENTS: REC'Y / HOLE MATED DRILLING INTERVAL % CORE RECOVERED SAMPLE INTERVAL % REC'Y. SAMP INT. FRACTURING MINERAL GEOLOGY chlorite CORE SIZE Cu Sec. GEOLOGY DESCRIPTIVE ALTERED ANDESITE 303-307 - Fault zone strongly healed watz 95 (Fault zone @ 35 % C.A. 0.10 301-341 - Silicification strong is mod sec bio and str. mag. atr atz healing 307 - 2cm ote un. -310 310-311 - Fault zone w gtz-healing 314 0.10 316 - 20 cm Fault zone I str. 9tz healing 317% 317.5-318.5- Fault zone w str gtz healing 320 -320-80 * Epidote still associated to pyrite on fits 324 0.10 Estr atz s/w devel. * Qtz s/w moderately developed 100 330 -330-333 0.10 100 10cm atzun wichl 341 - decrease in alt'n strength. -240-340-100 0.10 Bom ofz-carb uns wo brown . 346 4010 94 -350 13521 rd-30m gtz vn Ó 0 0 0.10 KO 357-360 - Breccia that is 9tz healed.

PROJECT: I.C. PAGE NO: G HOI,E NO. E-62 CASING COLLAR ELEV. GROUND ELEV, : DATE STARTED REF. TO CLAIM CORNER: SCALE: COORDINATES: TOTAL DEPTH: LOSSED BY : INCLINATION: AVE CORE ESTI-ALTERATION COMMENTS: REC'Y / HOLE MATED FRACTURING SULPHIDES
DRILLING
INTERVAL
% CORE
RECOVERED
CORE
SIZE SAMPLE INTERVAL % REC'Y. SAMP. INT. MINERAL GEOLOGY chlori Cu . S **GEOLOGY** DESCRIPTIVE - Zematz vn cut by Icm ALTERED ANDESITE cont. 100 = Zom qtz vn W M+52 0.15 * Qtz 5/W moderately developed 367-Magnetite decreases below 370' 370 -370 * Pyrite repy content increases due to presence in the atz veins. > 3 cm shear zone 100 = 50m gtz vn \$ py-cpy 0.15 377 - 3 cm qtz vn w py-cpy -38°C 390 379-401 - Core broken up 100 383 atz-corb uning increasing, small atz s/w 0.10 92 uns decreasing. 3874 Sea 390-390 * Alt'n moderately developed and very 98 consistant. -upper phyllic. = 2x/cm qtz uns \$ Mos, 77 \mathcal{G} 395 0.10 Magnetite weak - confined to fits. -> 2cm gtz vn J Mosz 400 100 and around firts 0.10 404% - zom py un wepy. 410 -4/0 100 - str gtz-carb uns 414-427 - Numerous small shear zones the shear some to ate-carb 44% 0.10 100 > 30cm show wighte-carb

PAGE NO: 7 OF 8 PROJECT: I.C. HOLE NO. E -62 CASING COLLAR ELEV,! GROUND ELEV.; DATE STARTED: REF. TO CLAIM CORNER: SCALE: COORDINATES: LOSSED BY : BEARING: TOTAL DEPTH: INCLINATION: AVE CORE REC'Y / HOLE ESTI-ALTERATION COMMENTS: AVE ROD % SULPHIDES MATED FRACTURING SAMPLE INTERVAL % REC'Y SAMP INT DRILLING
INTERVAL
% CORE
RECOVEREC
CORE
SIZE MINERAL (>4")= 32% 94% SECTION DESCRIPTIVE **GEOLOGY** 420 ALTERED ANDESITE shear @ 25°toc A 100 * Magnetite weak 0.10 10 cm shear \$3540 C.A. 429 - End of shears 430 100 433-Sec bio has dissappeared - gradually 4346 0.10 0) Q Sulphides are 90% fracture controlled. 100 > 2cm qtz-carb un 445 - Magnetite increasing towards fault @ 471 4446 0.10 -starting to find laumonite stain the atz-earb. 100 Alt'n strong - phyllic phase. -450 100 9 0.15 and con con with a section 457 0 3em gtz un. 460 100 - Zem gtz-carb un 0.10 4.7 -Bon 9tz un D Mosz -470-471-484 - Fault zone w large gouge zones in a 84 V strongly altered Anderite. >15 cm atzun it cry-py Intense -weak magnetite - clay + sericite. -gouge 475 0.15 0) Fault zone @ 50% C.A 98 Str. gouge

HOLE NO. E-62 PROJECT: I.C. PAGE NO: 8 OF 8 CASING COLLAR ELEV. GROUND ELEV. : DATE STARTED: REF. TO CLAIM CORNER COORDINATES: TOTAL DEPTH: LOSSED BY : INCLINATION: ALTERATION COMMENTS: ESTI-AVE CORE REC'Y / HOLE SULPHIDES
DRILLING
INTERVAL
% CORE
RECOVERED
CORE
SIZE MATED FRACTURING SAMPLE INTERVAL % REC'Y SAMP INT MINERAL GEOLOGY oblori. sec. Cu DESCRIPTIVE **GEOLOGY** ALTERED ANDESITE cont. Fault zone @ 500 to C.A 3/ 'n 95 0.10 N 487 Alteration strong below the fault. - phyllic phase. 490-24 moderate Strong magnetite
* Sulphides all fracture controlled. k0.10 60 497 9 500 N * Otz 5/w weakly devel, Otz-carb weakly 108 developed 506 10.10 -510 · Zom gtz-carb vn . 98 20.10 515.5' E.O.H.

