

FROM	TO	Rx. TYPE	NOTES	fr./ft.	Cu.	Cu	#	FROM/TO	REC.	Cu
51	201	150'	<u>Biotite-Feldspar Porphyry</u>							
			As at 12-21.			.01	4155	50-60 =10'	10	.38 ✓
			Abundant pyrite (10%) in hairline to 1/4" veinlets and true dissemination. No copper mineralization visible.			.01	4156	60-70 =10'	9	.25
			62 1/2 - 64= bleached zone.			.01	4157	70-80 =10'	10	.22
			Occasional 1/4" vuggy quartz-pyrite veinlet at 10-20° to core axis.			.01	4158	80-90 =10'	10	.24 ↑
			Biotite feldspar porphyry remains constant throughout. Abundant fractures at 20° to core axis and many at 45° to core axis. 10% pyrite on fractures and disseminated.			.01	4159	90-100 =10'	10	.10
			At 134'=1/2" mass pyrite at 45°.			.01	4160	100-110 =10'	10	.07
			134-141=7'.0 bleached soft fault zone.			.01	4161	110-120 =10'	10	.07
			Abundant pyrite; minor tourmaline.			.01	4162	120-130 =10'	10	.07
			At 137': Numerous 1/8-1/4" massive pyrite stringers at 45° to core axis.			.01	4163	130-140 =10'	9 1/2	.05
			At 151'=6" fault zone at 45°.			.01	4164	140-150 =10'	10	.04
	201		End of Hole			.01	4165	150-160 =10'	10	.07
			Acid Test at 201'. Apparent Dip=67° True Dip =60°			.01	4166	160-170 =10'	10	.07
						.01	4167	170-180 =10	10	.13
						.01	4168	180-190 =10	10	.14
						.01	4169	190-201 =11	11	.12
								98% Recovery		

FROM	TO	Rk. TYPE	NOTES	fr./ft.	grain/ft.	etc.
13	201		<p><u>Biotite-Feldspar Porphyry (cont'd.)</u></p> <p>At 97' changes back to regular uncrowded biotite-feldspar porphyry. After 97', fewer fractures and less pyrite. Most fractures after 100' at 45° to core axis. From 180' to 201' porphyry is lighter coloured. At 198½' = ½" massive pyrite at 60° to core axis. No copper mineralization visible.</p>			
	201		End of hole.			

PROPERTY B. C.Trail PeakHOLE NO. 2HOLE START Aug. 3/69HOLE FINISH Aug. 4/69DEPTH 201'

TEXAS GULF SULPHUR CO.

DIAMOND DRILL HOLE LOG

HOLE SURVEY (Method: Acid)

DEPTH Collar BRG: S45W INCL. -60°
200' -57°LATITUDE 269 + 65 NDEPARTURE 287 + 95EELEVATION 4560'CORE SIZE AQLOGGED BY ALDATE August 5,

POSTAGE		GEOLOGY		ALTERATION-STRUCTURE			MINERALIZATION			EST. gr.	CORE ASSAYS				SLUDGE AS.			
FROM	TO	Rk. TYPE	NOTES			ft./ft.				Cu	#	FROM/TO	REC.	Cu		FROM/TO	REC.	
0	15		Casing															
15	116		<p><u>Biotite-Feldspar Porphyry</u></p> <p>Dark grey (black and white mottled). Abundant small (to 1/4") white feldspar phenocrysts and small biotite books. Dense groundmass. Joints Fe-stained to approx. 40'. Abundant hairline joints and quartz-filled fractures (to 1/4") at 45°; some at 60° to core axis. Abundant pyrite on all joints and also disseminated. Very minor malachite on joints to approximately 20'. Traces chalcopyrite and rare bornite to approximately 35'. Minor magnetite. No copper visible after approximately 40'. Pyrite decreases. At 106 - 107' = brecciated fault zone. Healed; fragments of porphyry to 1". From approximately 110-116' porphyry becomes crowded, feldspar phenocrysts numerous, smaller.</p>															
										.03	4189	15-20	5.	.32	X			
										.04	4190	20-30	9.5	.17				
										.03	4191	30-40	9.0	.12				
										.02	4192	40-50	10.	.19				
										.01	4193	50-60	10	.10				
										.01	4194	60-70	10	.10				
										.01	4195	70-80	10	.07				
										.01	4196	80-90	10	.08				
										.01	4197	90-100	10	.11				
										.01	4198	100-110	10	.09				
										.01	4199	110-120	10	.10				
										.01	4200	120-130	10	.22	arg.			
										.01	4201	130-140	9 1/2	.11				
										.01	4202	140-150	10	.14				
										.01	4203	150-160	10	.16	arg.			
										.01	4204	160-170	9	.14				
										.01	4205	170-180	9 1/2	.14				
										.01	4206	180-190	10	.14				
										.01	4207	190-201	9 1/2	.05				

255

PROPERTY B. C.
Trail Peak
 HOLE NO. 4

MOLE START Aug. 5/69
 MOLE FINISH Aug. 5/69
 DEPTH 201'

ALASKA COPPER CORPORATION

DIAMOND DRILL HOLE LOG

HOLE SURVEY (Method: Acid)
 DEPTH Collar DRG. N45°E INCL. -60°
200' -57°

LATITUDE 272 + 80N
 DEPARTURE 287 + 90E
 ELEVATION 4640'
 CORE SIZE AQ

LOGGED BY AO
 DATE August 7,

FOOTAGE		FR. TYPE	GEOLOGY	ALTERATION-STRUCTURE			MINERALIZATION			EST. gr.	CORE ASSAYS				SLUDGE ASS.		
FROM	TO						fr/pl.				Cu	#	FROM/TO	REC.	Cu	-	FROM/TO
0	13		Casing														
13	70		<u>Biotite-Feldspar Porphyry:</u> Medium-grained, black and white mottled. Numerous small, white feldspar phenocrysts (a crowded porphyry) in black fine-grained matrix. Numerous small books biotite. Minor Fe-staining on joints to approximately 30'. Many quartz-filled joints and hairline fractures, most at 30° to core axis, but also at 45° to core axis. 5% pyrite on joints and also dissemination. Minor dissemination magnetite. 50-60 = 9' Lost Core.							.01	4208	13-					
										.01	4209	20- 7		.06			
										.01	4210	20- 10		.13			
										.01	4211	30- 10		.15			
										.01	4212	40- 8		.19			
										.01	4213	50- 10		.25			
										.01	4214	70- 10		.42	↓		
										.01	4215	80- 7		.49	✓		
										.01	4216	90- 9		.32	✓		
										.01	4217	100- 9		.34	✓	70 - 170 = 10	
										.01	4218	110- 9		.29	✓	@ 0.35	
										.01	4219	120- 10		.23	✓		
										.01	4220	130- 5		.23	✓		
										.01	4221	130- 10		.35	✓		
										.01	4222	140- 10		.35	✓		
										.01	4223	140- 10		.19	✓		
										.01	4224	150- 10		.19	✓		
70	90	20'	<u>Siliceous Argillite:</u> Medium grey, dense highly siliceous with fractured argillite. Numerous pyrite stringers, up to 1/4", generally at 30°. Numerous small inclusions of crowded biotite-feldspar porphyry.							.01	4225	150- 10		.45	✓		

FROM TO Rx. TYPE

NOTES

fr./ft.

Cu

#

FROM/TO

REC.

Cu

90 201 121'

Biotite-Feldspar Porphyry: (crowded)
 As at 13-70'
 At 91' - contact at 30° with typical uncrowded porphyry. Specimen taken.
 At 96' - abrupt change back to crowded porphyry.
 At approximately 140', gradual change back to typical biotite-feldspar porphyry (uncrowded).
 159-161' = bleached fault zone.

.01

222

160-

10

.43

.01

223

170-

10

.06

.01

224

180-

7

.10

.01

225

190-

7

.26

201

End of Hole

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$$\text{Recovery} = \frac{160'}{188'} = 85\%$$

PROPERTY B. C.HOLE START Aug. 7/69

YANAS CREEK SUPERIOR CO.

LATITUDE 276 +60°NLOGGED BY AMTrail PeakHOLE FINISH Aug. 8/69

DIAMOND DRILL HOLE LOG

DEPARTURE 284 +95EELEVATION 4700'DATE August 9,HOLE NO. 5DEPTH 200'HOLE SURVEY (Method: Acid)
DEPTH Collar DRG: S45W INCL. -60°CORE SIZE A Q

FOOTAGE		Rt. TYPE	GEOLOGY	ALTERATION-STRUCTURE			MINERALIZATION			EST. gr.	CORE ASSAYS				SLUDGE ASS.				
FROM	TO									Cu	#	FROM/TO	REC.		Cu			FROM/TO	REC.
0	11		Casing						.01	4226	11-								
11	90.5	90.5'	<u>Biotite-Feldspar Porphyry:</u> Dark, black and white mottled appearance. Numerous small white feldspar phenocrysts (to 1/4", well-formed) in dark groundmass. Numerous small books biotite Fe-stained joints to approx. 35'. 5% - 10% pyrite, both on fractures and dissemination. Numerous hairline to 1/4" fractures filled with pyrite. Principal direction at 45° to core axis but many also at 30° and 70° to core axis. At 23.5' = 1/2" massive pyrite at 45° At 24.5' to 25.5' = 1.0' bleached fault. At 25.0' = 1 1/2" massive pyrite. 28.0' to 30.0' = 2.0' bleached fault. Contacts at approximately 60° to core axis. 10% pyrite in zone. At 33.5' - 34.5' = 1.0' bleached fault zone, banding at 60°. Abundant (10% pyrite).																
									.02	4227	20-	8		.02					
											30	9		.01					
									.01	4228	30-			.01					
										4276	40	10		.01					
											50			.01					
										4277	50-			.02					
											60			.02					
									.01	4229	60-			.02					
										4278	70-	10		.02					
											80			.02					
										4279	80-			.02					
											90			.02					
										4280	90-			.02					
											100			.02					
									.01	4230	100-			.02					
											110	10		.02					
										4281	110-			.02					
											120			.02					
										4282	120-			.02					
											130			.02					
									.01	4231	130-			.01					
											140	10		.01					
										4283	140-			.01					
											150			.01					
										4284	150-			.01					
											160			.01					

PROPERTY B. C.
Trail Peak
 MOLE NO. 6

MOLE START Aug. 9/69
 MOLE FINISH Aug. 10/69
 DEPTH 200'

TEXAS GULF SULPHUR CO.

DIAMOND DRILL HOLE LOG

MOLE SURVEY (Method:)
 DEPTH Collar BRG: N45°E INCL. -60°

LATITUDE 280+24'N
 DEPARTURE 298+70'E
 ELEVATION 4930'
 CORE SIZE A Q

LOGGED BY AJ
 DATE August 11

FOOTAGE		R. TYPE	GEOLOGY	ALTERATION-STRUCTURE			MINERALIZATION			EST. gr.		CORE ASSAYS				SLUDGE ASS.			
FROM	TO						fr/ft.			Au	Cu	#	FROM/TO	REC.	Au	Cu		FROM/TO	REC.
0	20		Casing						Tr.	.01	4234	20-							
20	200	200'	<u>Diorite:</u> Fine to Medium-grained, greyish. Fe-stained joints to approximately 40'. Minor disseminated pyrite (5%) and on a few fractured faces. Relatively competent rock - only a few fractures, mainly at 20-30° to core axis. Light to intense tourmaline alteration in presumed fault zone. Apparent angle of tourmaline faulting = 30° to core. <u>Intense Tourmaline:</u> 20'-22'; 29'-31'. Angle 41 to 43'=2'.0 highly silicified, tourmalined hornblende-feldspar porphyry dike, contacts at approximately 30°. Also from 45 to 47'. <u>Intense Tourmaline:</u> 43' to 45' 56' to 63'						Tr.	.01	4235	30-	10	Tr.	Tr.				
											4287	40-	10	.005	.01				
											4288	50-			.01				
									Tr.	.01	4236	55-			.02				
											4289	65-	10	.005	.01				
											4290	80-			.02				
									N.A.	.01	4237	90-			.01				
											4291	100-	9.5	-	Tr.				
											4292	110-			.01				
									N.A.	.01	4238	120-			.01				
											4293	130-	10	-	.01				
											4294	140-			.01				
											4295	150-			.01				
									N.A.	.01	4239	160-	10	-	.01				
											4295	170-			.01				

PROPERTY B. C.Trail PeakMOLE NO. 8MOLE START Aug. 11/69MOLE FINISH Aug. 13/69DEPTH 250'

LEWIS CLIFF SECTION 22

DIAMOND DRILL HOLE LOG

MOLE SURVEY (Method: Acid)DEPTH Collar DRS: due West INCL. -60°
250' -54°LATITUDE 316+65° EDEPARTURE 316+65° EELEVATION 4710'CORE SIZE A 0LOGGED BY ALDATE August 13,

FOOTAGE		GEOLOGY		ALTERATION-STRUCTURE		MINERALIZATION		EST. gr.		CORE ASSAYS				SLUDGE ASS.		
FROM	TO	RE. TYPE	NOTES			Fe/fl.			Cu	#	FROM/TO	REC.	Cu		FROM/TO	REC.
0	9		Casing						.03	4242	9-20	7	.17			
									.02	4243	20-					
9	22	22'	<u>Diorite: (?)</u> Intensely silicified and sericitized. Light to medium green, very finely-grained. Numerous dark stringers, generally at 45° to core axis, but also at random orientation. These appear to be mylonite. Very little pyrite (less than 2%). Very minor malachite on joints to approximately 15'.						.01	4244	30-	9½	.07			
									.01	4245	40-	6	.05			
									.01	4246	50-6	9	.08			
									.01	4247	60-7	9	.06			
										4298	70-	10	.04			
										4299	80-		.06			
											90		.07			
22	30	8'	<u>Hornblende-Biotite Feldspar Porphyry:</u> Very silicified and cut by numerous ½" to 2" bands of altered diorite. Also multitude of random mylonitized fractures. No sulfides visible. Traces malachite at 22.5', 27'. Small white feldspar phenocrysts in very dark dense groundmass; very small hornblende and biotite phenocrysts.						.02	4248	90-	9½	.10			
										4300	100-					
											110		.04			
										4301	110-		.04			
									.01	4249	125-135	10	.04			
										4302	135-					
											145		.05			
										4303	145-					
									.01	4250	150-		.08			
											160	10	.05			
										4304	160-		.05			
											170		.05			

FROM	TO	Dx. TYPE	NOTES	fr. ft.	flow to	REG.
104	127	23'	<p><u>Diorite: (?)</u></p> <p>As at 9-22'. Trace malachite at 106.5.</p>			
127	250		<p><u>Diorite:</u></p> <p>Dark grey to black. Fine-grained, silicified, massive rock. Mylonitized joints and banding at approximately 50° to core axis. Trace chalcopyrite at 128'. Minor pyrite. Trace malachite at 127'.</p> <p>* 139'.5 to 141'=1'.5 <u>Biotite-feldspar porphyry.</u> Diorite becomes coarse-grained from 173' to 181'. and and 183' to 186'.</p> <p>* 181.5 to 183= 1'.5 <u>Biotite-feldspar porphyry.</u> 195 to 197=2'.0 Mylonitized fault zone at 35° to core axis.</p> <p>* 212 to 214 = 2'.0 <u>Hornblende-Feldspar Porphyry.</u> Light grey, spotted. Minor pyrite. Becomes more altered from approximately 230' to bot bottom.</p> <p>244.5 to 247' = 2'.5 abundant to massive magnetic zone. Banding at 65° to core axis. Numerous ¼" to ½" magnetite bands at 65° from 248' to 250'.</p>			
250			<p>End of Hole.</p>			

PROPERTY B. C.

Trail Peak

MOLE NO. 9

MOLE START Aug. 13/69

MOLE FINISH Aug. 15/69

DEPTH 250'

DIAMOND DRILL HOLE LOG

MOLE SURVEY (Method: Acid)

DEPTH Collar 250' BRG. due N. INCL. -60°
-57°

DEPARTURE 318+75'E

ELEVATION 4770'

CORE SIZE A 0

LOGGED BY AIS

DATE August 15, 1969

FOOTAGE		EX. TYPE	GEOLOGY	ALTERATION-STRUCTURE			MINERALIZATION			EST. gr.	CORE ASSAYS					SLUDGE ASSAYS		
FROM	TO			Gr./ft.								#	FROM/TO	REC.	Cu			FROM/TO
0	18		Casing						.01	4255	18-							
18	50		Biotite-Feldspar Porphyry: Dark grey, very fine-grained. Numerous small white feldspar phenocrysts and numerous small biotite 'books'. Fe-stained joints to approx. 60'. Relatively competent but numerous joints and fractures at 45° to core axis. Very little pyrite. 18 - 26 = bleached zone, apparent shrinking at approx. 45° to core axis.						.01	4256	30-	12	.02					
											40	7	.01					
											4308	40-		In				
									.01	4257	50-							
											60	9	.03					
											4309	60-						
											70		.04					
											4310	70-						
											80		.04					
									.01	4258	80-							
											90	10	.07					
											4311	90-						
											100		.08					
											4312	100-						
											110		.06					
50	62.5	12'.5	Diorite: (?) (as in DDH#8) Light greenish-grey, very fine-grained. Numerous dark mylonitized joints at 30° to core axis. 61-62 = 1'.0 brecciated fault zone at approximately 35° to core axis. Healed.						.01	4259	110-							
											120	10	.06					
											4313	120-						
											130		.09					
											4314	130-						
											140		.02					
									.01	4260	140-							
											150	10	.03					
											4315	150-						
											160		.06					
											4316	160-						
											170		.05					

PROPERTY R. C.

FILE NO. 10

HOLE START AUG. 15/69

HOLE FINISH AUG. 17/69

DEPTH 250'

YEMASO CULM CULTIVATION CO.

DIAMOND DRILL HOLE LOG

HOLE DIRECTION (Dip: Acid)
 DIRECTION: due West
 DEPTH: 250'
 INCL: -60°
 -57°

LATITUDE 304+10N

DEPARTURE 309 + 55E

ELEVATION 4940'

CORE SERIAL

LOGGED BY AJS

DATE August 17, 1969

CONTACT		GEOLOGY		ALTERATION-STRUCTURE			MINERALIZATION			EST. GR.		CORE ANALYSIS				SLUDGE ANALYSIS		
FR.	TO	FR. TYPE	NOTES			Gr/ft.				Cu	#	FRON/ft	REC.	Cu			FRON/TO	REC.
0	16		Casing.							.01	4266	16-						
16	169.5	169.5	Diorite:							.01	4267	30-	14	.01				
			Medium grey, medium grained. Light Fe-staining on joints down to approximately 35'. Massive rock, very few fractures or joints; most joints covered with magnetite, most at approximately 45° to core axis. Very weak colour banding at approximately to core axis. Very little pyrite on joints, weak chlorite alteration of Fe-mags., but 3%-5% dissemination. Occasional trace chalcopyrite. Fault zone, abundant gouge, from 64' to 71'. Diorite becomes more altered from approximately 160'.							.01	4321	40-	10	.01				
											4322	50-		.01				
										.01	4268	60-	9.5	.01				
											4323	70-		.01				
										.01	4324	80-		.01				
											4269	90-	10	.01				
											4325	100-		.01				
											4326	110-		.01				
										.01	4270	120-	10	.02				
											4327	130-		.01				
											4328	140-		.01				
										.01	4271	150-	10	.02				
											4329	160-		.01				
												170		.01				

FROM	TO	Rx. TYPE	NOTES	Fr./ft.	Cu	#	REC./TD	REC.	Cu
169.5	185.5	16'	<u>Dike Rock:</u> Very fine-grained, moderately siliceous. Dark grey, andesitic composition. Possible fragmental. Much assimilated diorite. Minor pyrite.		.01	330	170-- 180		.01
						272	180-- 190	10	.02
						331	190-- 200		.01
185.5	250		<u>Diorite:</u> As at 16-189.5 At 199' = 6" bleached zone with 1" massive tourmaline at approximately 35°.		.01	332	200-- 210		.02
						273	210-- 220	10	.01
						333	220-- 230		.01
	250		End of Hole.		.01	274	230-- 240	10	.01
					.01	275	240-- 250	10	.02