

Location: 15+55N, 3+45W  
 Depth 0 450' 850' 1350'  
 Bearing S80E S80E N88E N88E  
 Dip -45° -48° -52° -58°  
 Elevation: 3590'

Started: June 14, 1970  
 Completed: June 23, 1970  
 Ultimate Depth: 1350'  
 Logged By: C. McFall

Drilled By: D.W. Coates Enterprises  
 Assays by: TSL, Smithers  
 Check Assays By: Coast Eldridge, Vancouver

Detail Log

BIG ONION

HOLE NO. C-1

PAGE 1 810630

DIAMOND DRILL RECORD

FROM	TO	DESCRIPTION	CORE LENGTH				ASSAYS (Est.)					ACCUMULATIVE AVERAGES			
			FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	Mo	Py	Depth	<del>XXXXXXXXXX</del>	CU %	Mo
0	17	Overburden					10	20	0.02	0.01	2.0	0	400	.018	.008
17	261	Silicified andesite, mottled, very light gray, with disseminated pyrite, locally leached leaving very small voids with minor yellowish brown limonite, 17'-35' locally with some chalcocite, with pyrite concentrated on fractures and where leached leaving planar voids, moderately fractured, below 45' with minor calcite fracture fillings, 210-212 with ghosts of phenocrysts ? below 220 with few fractures					20	30	0.03	Tr	2.0	500	700	.070	.013
							30	40	0.01	Tr	1.0	700	770	.100	.027
							40	50	0.01	Tr	2.0	770	900	.410	.036
							50	60	Tr	Tr	2.0	900	1000	.225	.026
							60	70	Tr	0.01	3.0	1000	1130	.313	.018
							70	80	Tr	Tr	3.0	1130	1350	.023	.004
							80	90	Tr	Tr	3.0				
							90	100	0.01	0.01	2.0	770	1130	.326	.027
							100	110	Tr	Tr	2.0				
							110	120	Tr	Tr	2.0				
							120	130			2.0				
							130	140	0.06	Tr	2.0				
							140	150	0.01	Tr	2.0				
							150	160	Tr	0.02	2.0				
							160	170	Tr	0.02	2.0				
							170	180	0.02	0.01	2.0				
							180	190	0.01	0.04	2.0				
							190	200	0.20	Tr	2.0				
							200	210	0.01	Tr	1.0				
							210	220	0.04	0.02	1.0				
							220	230	0.01	0.01					
							230	240	Tr	Tr					Note: Pyrite content estimated
							240	250	Tr	Tr					
							250	260	Tr	Tr					



DIAMOND DRILL RECORD

FROM	TO	DESCRIPTION	CHECK POINTS				ASSAYS					ACCUMULATIVE AVERAGES			
			FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	Mo	Py	AU W	AG W	CU W	
388	535	Chilled border on quartz diorite pluton mottled light gray but with cloudy feldspar phenocrysts highly silicified, locally highly fractured with disseminated pyrites at 435' with 1/2 foot zone of clean cavenous voids with 2% chalcopyrite, 441'-443' with slight kaolinization, 485'-510', grading into very fine-grained quartz diorite, 510-535 partly to intensely silicified, and locally quite altered and with traces of bornite.					390	400	.02	.02					
							400	410	Tr		2.0				
							410	420	Tr ?		1.0				
							420	430	Tr ?		2.0				
							430	440	.1		2.0				
							440	450	Tr		2.0				
							450	460	Tr		2.0				
							460	470	.05		4.0				
							470	480	.05		4.0				
						480	490	Tr		2.0					
535	537	Diorite porphyry dike with very fine to medium grained groundmass and small plagioclase laths as phenocrysts, with pyrite and traces of bornite and molybdenite.					490	500	Tr		1.0				
							500	510	.03	.01	1.0				
							510	520	.04	.02	4.0				
						520	530	.09	.01	6.0					
537	700	Chilled border on quartz diorite pluton, partly to intensely silicified, generally mottled off-white and light gray, with disseminated pyrite, with traces of bornite, and molybdenite, moderately to highly fractured, locally with some kaolinization along fractures, locally angular,					530	540	.12	.02	2.0				
							540	550	.04	.02	3.0				
							550	560	.11	.02	2.0				
							560	570	.12	.01	3.0				
							570	580	.07	.01	2.0				
							580	590	.08	.01	0.5				
							590	600	.06	.02	0.5				
							600	610	.09	.01	0.7				
						610	620	.06	.01	0.7					
							Note: 400-500 not assayed; estimated only								

DIAMOND DRILL RECORD

DESCRIPTION			CHECK <del>XXXXXXXXXX</del> ASSAYS		ASSAYS					ACCUMULATIVE AVERAGES					
			FROM	TO	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	AU OZ.	AG OZ.	% CU	Mo	Py	AU W	AG W	CU W	
					Cu	Mo	620	630	.03	Tr	1.0				
		with some calcite and quartz fracture fillings					630	640	.06	.01	1.0				
		and vug encrustations, with some magnetite					640	650	.06	.02	0.7				
		and minor hematite, below 613' with some					650	660	.07	.01	1.0				
		chalcopyrite - Gradational Contact					660	670	.04	.01	1.0				
							670	680	.05	.02	1.0				
							680	690	.07	.02	1.0				
							690	700	.08	.01	1.0				
700	736	Quartz diorite, greenish gray, medium-grained,					700	710	.06	.02	0.5				
		with some disseminated pyrite especially on					710	720	.06	.02	0.7				
		fractures, with some chlorite (?) with slight					720	730	.23	.03	0.5				
		kaolinization, with traces of bornite, with					730	740	.08	.02	0.7				
		some molybdenite on fractures, locally with					740	750	.06	.04	1.5				
		vugs lined partly with calcite or quartz.					750	760	.07	.02	1.5				
736	1015	Chilled phase of quartz diorite pluton as 536'					760	770	.13	.04	2.0				
		- 700' but with disseminated chalcopyrite,					770	780	.22	.05	2.0				
		locally coarser grained, locally below 922'					780	790	.68	.06	2.0				
		with epidote alteration at 960' with a 6" cal-					790	800	.57	.06	2.0				
		cite vein at 970' with fault marked by driller					800	810	.36	.04	3.0				
		at 978' with a 3" calcite vein at 998'-1000'					810	820	.27	.04	3.0				
		sheared Gradational Contact					820	830	.32	.03	4.5				
							830	840	.26	.01	3.5				
							840	850	.31	.01	2.5				
							850	860	.56	.03	2.0				
							860	870	.73	.04	2.0				

DIAMOND DRILL RECORD

		DESCRIPTION	CHECK <del>XXXXXXXXXX</del> ASSAYS		ASSAYS					ACCUMULATIVE AVERAGES					
FROM	TO		FROM	TO	<del>XXXXXXXXXX</del> XXXXXXXXXX XXXXXXXXXX	AU OZ.	AG OZ.	% CU	Mo	Py	AU W	AG W	CU W		
1015	1211	Quartz diorite, greenish gray, medium-grained	920	930	.16	.008	920	930	.16	.02	2.0				
		otherwise as above.					930	940	.15	Tr	2.5				
		- at 1025' with minor chalcocite on pyrite					940	950	.11	.01	2.0				
		- at 1040' with minor hematite after magnetite					950	960	.08	Tr	2.0				
		- below 1047' with increasing magnetite					960	970	.26	.03	2.0				
		- at 1100' very fractured and sheared	970	980	.17	.008	970	980	.18	.01	2.0				
		- below 1125' with considerable hematite after					980	990	.34	.04	3.0				
		magnetite, also with considerable epidote					990	1000	.37	.04	5.0				
		alteration					1000	1010	.57	.05	6.0				
		- at 1176' shear zone and "mud seam" marked					1010	1020	.18	.01	3.5				
		by driller	1020	1030	.30	.005	1020	1030	.30	.02	3.0				
		- below 1193' highly sheared					1030	1040	.20	.01	3.0				
		- at 1200' a quartz vein					1040	1050	.26	.01	3.5				
							1050	1060	.33	.02	5.0				
							1060	1070	.27	.01	6.0				
			1070	1080	.44	.004	1070	1080	.44	.01	6.0				
							1080	1090	.23	.01	0.7				
							1090	1100	.25	.02	2.5				
							1100	1110	.16	.02	4.0				
							1110	1120	.36	.01	3.0				

DIAMOND DRILL RECORD

DESCRIPTION		CHECK <del>XXXXXXXX</del> ASSAYS		ASSAYS					ACCUMULATIVE AVERAGES							
FROM	TO	FROM	TO	<del>XXXXXX</del> Cu	<del>XXXXXX</del> Mo	AU OZ.	AG OZ.	% CU	Mo	Py	AU W	AG W	CU W			
1211	1213		1120	1130	.52	0.017	1120	1130	.52	.03	3.5					
1213	1302						1130	1140	.19	.01	2.5					
							1140	1150	.01	.01	1.5					
1302	1350						1150	1160	.01	Tr	2.0					
							1160	1170	.01	Tr	2.0					
							1170	1180	.01	Tr	3.5					
							1180	1190	.03	Tr	7.0					
							1190	1200	.01	Tr						
							1200	1210	.01	Tr	3.0					
							1210	1220	.02	.01	2.5					
							1220	1230	.01	.02	2.0					
							1230	1240	.02	.01	1.0					
							1240	1250	.02	Tr	1.0					
							1250	1260	.02	Tr	1.0					
							1260	1270	.02	Tr	1.0					
							1270	1280	.02	.02	1.0					
							1280	1290	.01	Tr	1.0					
							1290	1300	.01	Tr	1.0					
							1300	1310	.01	.01	1.0					
							1310	1320	.02	Tr	1.0					
							1320	1330	.01	Tr	1.0					
							1330	1340	.01	Tr	1.0					
							1340	1350	.01	Tr	1.0					



DIAMOND DRILL RECORD

FROM	TO	DESCRIPTION	CORE LENGTH				ASSAYS				ACCUMULATIVE AVERAGES			
			FROM	TO	ACC WIDTH	SAMPLE NO.	FROM	TO	% CU	MO	PY-RITE	MAGNETITE	AG W	CU W
200	267	Silicified andesite, light to medium-gray, somewhat mottled, only moderately fractured, with disseminated magnetite and pyrite especially on fractures, with only minor epidote, locally vuggy, especially on fractures, @ 247 grading down into more intensely altered and silicified andesite mottled off-white and gray.					240	260	.03	.01	1.0	2.0		
267	333	Diorite porphyry dike with 6" chilled border, with dark aphanitic groundmass and some light colored plagioclase lath-like phenocrysts, grading inward to medium-grained and light gray with a salt and pepper appearance, with only a trace of pyrite but with considerable disseminated magnetite, hard and relatively unfractured.					280	300	.02	.01	Tr	2.0		
333	380	Silicified andesite, off-white mottled with light gray, with disseminated pyrite especially on fractures, only moderately fractured, with some chlorite (?).					320	340	.01	.01	2.0	1.0		
							360	380	Tr	.01	2.0			



## DIAMOND DRILL RECORD

FROM	TO	DESCRIPTION	CORE LENGTH				ASSAYS (Est.)					(Est.) ACCUMULATIVE AVERAGES		
			FROM	TO	ACC WIDTH	SAMPLE NO.	FROM	TO	% CU	MO	PY-RITE	MAGNETITE	AG W	CU W
380	586	Silicified rhyolite (?) mottled off-white and gray with disseminated pyrite and locally traces of molybdenite and bornite, not highly fractured, locally with ghosts of feldspar phenocrysts, with many small healed fractures, with local kaolinization especially 508-523, especially (gradational contact) mottled, 540-555					400	420	.01	.01	2.0			
							440	460	.01	.01	2.0			
							480	500	.01	Tr	2.0			
							520	540	.01	Tr	2.0			
							560	580	.04	Tr	2.0			
							600	620	.05	.01	2.5			
586	1294	Quartz diorite, fine to medium-grained, gray to greenish gray, with disseminated pyrite and lesser chalcopyrite and traces of molybdenite, locally with magnetite altering to hematite, locally with considerable epidote alteration, locally silicified, mottled light gray and greenish gray, locally vuggy, with chalcocite (?)					630	640	.22	.03	3.0			
							640	660	.09	.02	3.0			
							680	700	.09	.02	3.0			
							720	740	.08	.01	2.0			
							760	780	.04	.01	1.0			
							800	820	.22	.01	3.0			
							840	860	.18	.01	3.0			
							880	900	.26	.02	3.0			
							920	930	.06	.01	3.0			
							940	950	.05	.01	3.0			
							960	980	.10	Tr	3.0			
							1000	1020	.04	.01	0.7			
							1040	1060	.05	Tr	0.3			
							1080	1100	.06	.01	0.3			
							1120	1140	.05	.01	0.3			
							1160	1180	.01	Tr	1.0			
							1200	1220	.07	.01	0.3			
							1240	1260	.14	.01	2.0			
							1260	1280	.12	.01	2.0			

DIAMOND DRILL RECORD

FROM		TO	DESCRIPTION	CORE LENGTH				ASSAYS (Est.)			ACCUMULATIVE AVERAGES					
				FROM	TO	ACC WIDTH	SAMPLE NO.	FROM	TO	% CU	MO	PY-RITE	AU W	AG W	CU W	
1294	1434		Chilled border phase, (grades into) alternately (1) intensely and (2) moderately silicified, respectively (1) light gray to off-white and (2) light greenish gray, with disseminated pyrite, some chalcopyrite and traces of molybdenite, with veinlets of gypsum, calcite, and quartz, with increased chalcopyrite and with considerable epidote alteration below 1325', with medium to coarse porphyritic texture with fine-grained lenses 1350'-1369' (sheared contact)					1280	1300	.07	.02	2.0				
								1320	1340	.13	.01	1.5				
								1340	1360	.16	.02	0.5				
								1360	1380	.18	.02	0.5				
								1380	1400	.15	.03	0.5				
								1400	1420	.15	.02	0.3				
								1420	1426	.46	.02	0.3				
								1426	1430	0.31	Tr					
								1430	1440	0.12	Tr					
								1440	1450	0.32	0.01					
1434	1441		Silicified andesite mottled light gray to pale greenish gray, highly fractured and sheared, with kaolinization with disseminated pyrite, chalcopyrite, magnetite and with some epidote and hematite, with veinlets of gypsum and calcite.					1450	1460	0.10	0.01					
								1460	1470	0.19	Tr					
								1470	1480	0.08	Tr					
								1480	1490	0.10	0.01					
								1490	1500	0.20	Tr					
								1500	1510	0.06	Tr					
								1520	1530	0.21	Tr					
								1540	1550	0.15	Tr					
								1560	1570	0.02	0.01					
								1580	1590	0.02	Tr					
								1600	1610	0.02	Tr					



Datum: 24N, 2+20W  
Elevation: 3730'  
Ultimate Depth: 968'

Depth Bearing Dip  
Surface N70°W -80°  
500' N49°W -79-1/2°  
968' N25°W -77°

Logged by: C. C. McFall  
Drilled by: D. W. Coates Enterprises  
Recovery: Essentially 100%  
Assays by: TSL, Smithers, B. C.

HOLE NO. C-3 PAGE 1  
Started: July 7, 1970  
Completed: July 12, 1970

DIAMOND DRILL RECORD

FROM TO		DESCRIPTION	CORE LENGTH				ASSAYS				ACCUMULATIVE AVERAGES				
			FROM	TO	ACC WIDTH	SAMPLE NO.	FROM TO	% CU	% MO	PY-RITE	AU W	AG W	CU W		
0	60	Overburden													
60	70	Gossan													
70	90	Rubble of vuggy, limonite-stained, medium-grained light gray quartz diorite					80	100	.02	.03	1				
							120	130	.03	.03	1				
90	853	Quartz diorite, gray to greenish gray, medium-grained, with disseminated pyrite and less chalcopyrite especially on fractures and vugs, with traces of molybdenite especially on fractures, locally with considerably epidote on fractures, locally with hematite after magnetite, above 153' with abundant limonite in fractures and vugs.					160	180	.06	.02	1				
							200	220	.06	.01	2				
							240	260	.03	.02	1				
							280	300	.03	.02	1				
							320	340	.02	.03	1				
							360	380	.04	.02	1				
							400	420	.03	.03	0.3				
		220-250 relatively unaltered					440	460	.01	.01	0.3				
		290-310 highly fractured					480	500	.10	.02	0.3				
		500-600 more alteration, argillization, more healed fractures, locally vuggy with chalcopyrite in vugs, more quartz fracture fillings, some chlorite (?)					520	540	.06	.01	0.5				
							540	560	.11	.02	0.5				
							580	600	.08	.02	0.5				
		535 noticeably hematite after magnetite below 540 with chalcopyrite abundant in a few fracture fillings													
		600-638 less altered, nearly fresh, moderate fracturing					620	640	.12	.03	0.5				
		630-631 quite vuggy with much chalcopyrite					660	680	.10	.02	0.5				
		638-753 more argillized, some hematite after magnetite with magnetite prevalent on fractures near 700, medium-grained					700	720	.15	.02	0.4				

## DIAMOND DRILL RECORD

FROM		TO	DESCRIPTION	CORE LENGTH			ASSAYS				ACCUMULATIVE AVERAGES					
				FROM	TO	ACC WIDTH	SAMPLE NO.	FROM	TO	% CU	% MO	PY-RITE	AU W	AG W	CU W	
		753-853	continued quartz diorite, gray to greenish gray, medium-grained with some fine-grained zones, locally silicified, with some to much epidote along irregular fractures, moderately fractured with some patchy disseminated pyrite and chalcopryrite, with some chloritization, locally with minor hematite after magnetite					740	760	.10	.02	0.5				
								780	800	.07	.02	0.4				
								820	840	.11	.04	0.5				
			Sheared Contact													
853	914		Silicified, chilled phase on quartz diorite pluton, mottled light and medium gray, with some chloritization with minor disseminated pyrite and lesser chalcopryrite and a few traces of moly, relatively unfractured, grading down through a sheared section to:					860	880	.12	.04	0.5				
914	920		chilled phase on quartz diorite pluton, gray, fine to medium-gray, moderately fractured to relatively unfractured					900	920	.19	.02	0.5				
920	938		Silicified andesite (?), mottled gray and greenish gray, relatively unfractured, with some epidote, with quartz veinlets, with disseminated pyrite, magnetite, and lesser chalcopryrite and traces of molybdenum													
938	968		Andesite, somewhat altered, greenish gray, fine to medium-grained, relatively unfractured, locally with considerable disseminated magnetite, with some disseminated pyrite and lesser chalcopryrite, with some veinlets of quartz and epidote, with some hematite after magnetite					940	960	.03	.01	1				
								960	968	.02	.01	1				



Location: 28+60N, 0+90E  
 Started: July 15, 1970  
 Completed: July 19, 1970  
 Ultimate Depth: 737 feet  
 Elevation: 3740 feet

Depth	Bearing	Dip
0	N60W	-65°
500	N52W	-66°
737	N48W	-64°

Logged by: C. C. McFall  
 Drilled by: D. W. Coates Enterprises  
 Recovery: Essentially 100%  
 Assays by: TSL, Smithers, B.C.

DIAMOND DRILL RECORD

		DESCRIPTION	CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES			
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	%MO	PY-RITE	FROM <del>XXXX</del>	TO <del>XXXX</del>	CU W	MO
0	40	Overburden	40	50					.02	Tr	-				
40	104	Quartz diorite, slightly porphyritic and locally highly altered, very light gray to greenish gray, highly stained with limonite on the abundant fractures and vugs, 64'-95' with some malachite below 64', with pyrite and some disseminated chalcopryite 100-104, partly silicified (sheared contact)	50	60					.05	.01	-				
			60	70					.14	.01	-				
			70	80					.10	.02	-				
			80	90					.11	.02	1				
			90	100			Tr	Tr	.44	.04	2	90	560	.586	.025
			100	110					.49	.04	1				
104	185	Chilled phase on quartz diorite pluton, greenish gray, fine-grained to porphyritic, highly fractured and vuggy, locally sheared and altered, with disseminated chalcopryite and minor pyrite with some chalcopryite and with traces of bornite and molybdenite, locally with limonite on vugs and fractures, with considerable chalcopryite near 185, with magnetite and secondary hematite 170-185 (sheared contact)	110	120					.58	.02	1				
			120	130			Tr	Tr	.82	.03	1				
			130	140					.61	.02	1				
			140	150					.57	.02	1				
			150	160			Tr	Tr	.96	.02	1				
			160	170					.38	.03	1				
			170	180					.52	.01	1				
			180	190			.01	Tr	.20	.02	1				
185	223	Andesite, greenish-gray, fine-grained with considerable epidote especially on the many fractures and vugs, with disseminated pyrite, chalcopryite, and magnetite and with some hematite locally. (Sheared Contact)	190	200					.38	.01	1				
			200	210					.37	.02					
			210	220			.01	Tr	.27	.01					
			220	230					.68	.02					

DIAMOND DRILL RECORD

		DESCRIPTION	CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	%MO	PY-RITE	FROM <del>XXXX</del>	TO <del>XXXX</del>	CU W	MO	
223	307	Chilled phase on quartz diorite pluton, greenish gray, highly altered locally with considerable disseminated chalcopyrite and magnetite, highly fractured and with many vugs	230	240			.01	Tr	2.44	.02						
			240	250						.64	.01					
			250	260							.85	.02				
			260	270					.01	Tr	1.30	.01				
			270	280							.72	.01				
			280	290							.78	.02				
307	324	Silicified chilled phase, off-white, highly fractured and locally sheared with chlorite (?) and some molybdenite on shears, with some disseminated pyrite and chalcopyrite, with some magnetite locally	290	300			.01	Tr	.65	.01						
			300	310					.58	.03						
			310	320						.24	.03					
			320	330					Tr	Tr	.84	.03	1			
			330	340							.97	.04	1			
324	433	Chilled phase on quartz diorite pluton, dark greenish gray, fine-grained, highly fractured, with some epidote especially on fractures, with some disseminated pyrite and chalcopyrite (Gradational Contact)	340	350					1.00	.03	1					
			350	360					Tr	Tr	.55	.03	1			
			360	370							.36	.04	2			
			370	380							.44	.02	2			
			380	390					Tr	Tr	.46	.03	2			
			390	400							.41	.03	2			
			400	410							.54	.04	2			
								.47	.04	2						
								.72	.02	2						



## DIAMOND DRILL RECORD

		DESCRIPTION	CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES			
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	%MO	PY-RITE	AU W	AG W	CU W	
433	495	Mottled off-white and greenish gray to gray, partly silicified and kaolinized chilled phase on quartz diorite pluton, locally with splotches altered to flesh pink, with numerous healed hairline fractures, locally below 470' with intense kaolinization, with disseminated pyrite, lesser chalcopyrite, and traces of molybdenite.	430	440					.70	.02	1				
			440	450					.33	.02	1				
			450	460					.26	.02	1				
			460	470					.24	.02	1				
			470	480					.14	.01	1				
			480	490					.52	.03	1				
			490	500					.34	.03	1				
495	503	Fault breccia, silicified and partly kaolinized, with some flesh-colored calcite cementing the breccia.	500	510					.65	.04	1				
503	582	Silicified and kaolinized chilled phase on quartz diorite pluton, mottled pale greenish gray and gray, locally sheared, with numerous healed fractures and veinlets of quartz, moderately fractured, with disseminated pyrite and sparse chalcopyrite and with traces of molybdenite.	510	520					.31	.02	1				
			520	530					.35	.02	1				
			530	540					.57	.04	1				
			540	550					.46	.04	1				
			550	560					.44	.04	1				
			560	570					.15	.04	1				
			570	580					.11	.03	1				
		(Gradational Contact)													
582	633	Quartz diorite, greenish gray, fine to medium-grained, moderately fractured, with some quartz veinlets, vugular 601-620, locally with disseminated pyrite and chalcopyrite, with some chloritization.	580	590					.09	.02	1				
			590	600					.10	.01	1				
			600	610					.11	.01	0.5				
			610	620							0.5				
			620	630					.09	.02	0.5				

DIAMOND DRILL RECORD

DESCRIPTION		CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
FROM	TO	FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	%MO	PY-RITE	AU W	AG W	CU W		
633	670	Silicified quartz diorite, mottled light greenish gray and gray, with numerous healed fractures, with disseminated pyrite and chalcopyrite, with traces of molybdenite especially on fractures	630	640					.07	.02	1				
			640	650					.14	.02	2				
			650	660					.10	.02	2				
			660	670					.10	.02	2				
670	683	Quartz diorite, greenish-gray, medium-grained relatively unaltered and unfractured, with sparse pyrite and chalcopyrite on veinlets and partings	670	680					.09	.02	1				
			680	690					.06	.01	1				
683	690	Silicified quartz diorite as 633-670													
690	706	Quartz diorite, greenish-gray, medium-grained relatively unaltered and unfractured, with sparse pyrite and chalcopyrite.	690	700					.08	.01	0.5				
			700	710					.08	.02	0.5				
706	724	Quartz diorite, slightly silicified, moderately fractured, with sparse pyrite and chalcopyrite.	710	720					.06	.01	0.5				
			720	730					.07	.01	0.5				
724	733	Quartz diorite, slightly porphyritic, slightly altered, gray to greenish gray.													
733	737	Quartz diorite, highly kaolinized and locally (T.D.) sheared, with some silicification, with sparse pyrite and chalcopyrite, and with traces of molybdenite on fractures.	730	737					.07	.02	0.5				



DIAMOND DRILL RECORD

FROM	TO	DESCRIPTION	CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES							
			FROM	TO	ACC WIDTH	SAMPLE NO.	FROM	TO	% CU	MO	PY-RITE	AU W	AG W	CU W					
205	280	Quartz diorite, partly silicified, pale greenish gray, medium- to coarse-grained, moderately fractured, with some vuggy fractures, with disseminated pyrite and lesser chalcopyrite, with traces of bornite, chalcocite, and molybdenite, especially along fractures, locally highly fractured and somewhat altered, with epidote (?) on fractures.					210	220	.25	.01	1								
							220	230	.14	.02	1								
							230	240	.11	.02	1								
							240	250	.12	.01	2								
							250	260	.06	.02	3								
							260	270	.09	.02	2								
							270	280	.09	.01	1								
							280	290	.11	.01	1								
			280	463	As above, but more sheared and fractured, with some chlorite on shears, with intense fracturing 447-463.					290	300	.10	.01	1					
										300	310	.09	.01	0.5					
							310	320	.10	.02	0.5								
							320	330	.21	.01	0.5								
							330	340	.09	.01	1								
							340	350	.11	.02	2								
							350	360	.12	.01	1								
							360	370	.07	.01	1								
							370	380	.18	.01	1								
							380	390	.08	.01	2								
							390	400	.10	Tr	2								
							400	410	.10	.01	1								
							410	420	.12	Tr	1								
							420	430	.09	Tr	2								
							430	440	.08	Tr	1								
							440	450	.09	.01	1								
				450	460	.17	Tr	1											



DIAMOND DRILL RECORD

FROM		TO	DESCRIPTION	CORE LENGTH			ASSAYS				ACCUMULATIVE AVERAGES				
FROM	TO	ACC WIDTH		SAMPLE NO.	FROM	TO	AU W	AG W	CU W						
605	752		Quartz diorite, greenish gray, medium-grained, highly fractured to about 650' and below that moderately to little fractured, relatively unaltered, with some disseminated pyrite and sparse chalcopyrite with slight epidote alteration, with some chlorite on fractures, slightly vugular locally, with some quartz in vugs and fractures.												
							610	620	.20	.01	1				
							620	630	.08	Tr	1				
							630	640	.10	.02	1				
							640	650	.07	Tr	1				
							650	660	.06	Tr	2				
							660	670	.10	Tr	2				
							670	680	.09	Tr	2				
							680	690	.08	.01	2				
							690	700	.14	.01	1				
							700	710	.13	.02	1				
							710	720	.12	.03	1				
							720	730	.14	Tr	2				
						730	740	.10	.02	1					
						740	752	.08	.01	1					

Datum: 31+20N, 4+30W  
 Elevation: 3905'  
 Ultimate Depth: 1148'  
 Started: July 27, 1970  
 Completed: August 4, 1970

Depth	Bearing	Dip
0	S20°E	-45
500	S22°E	-56
1000	S19°E	-61

Logged by: C.C. McFall  
 Drilled by: D.W. Coates Enterprises  
 Recovery: Essentially 100%  
 Assays by: TSL, Smithers, B.C.

BIG ONION

HOLE NO. C-7 PAGE 1

DIAMOND DRILL RECORD

FROM		TO	DESCRIPTION	CORE LENGTH				ASSAYS			ACCUMULATIVE AVERAGES					
				FROM	TO	ACC WIDTH	SAMPLE NO.	FROM	TO	% CU	MO	PY-RITE	AU W	AG W	CU W	MO
0	40		Overburden													
40	98		Oxidized quartz diorite, light greenish gray, medium-grained, with abundant limonite in numerous vugs and fractures, with quartz partially filling some vugs, with malachite and azurite locally 43'-45', with traces of chalcocite locally, with sparse chalcopyrite below 84'.	40	50			.07	.02	-						
				50	60			.04	Tr	-						
				60	70			.08	.01	0.5						
				70	80			.37	Tr	1						
				80	90			.36	.01	1						
				90	100			.30	.02	2						
98	99		Sheared quartz diorite	100	110			.10	Tr	1						
99	549		Quartz diorite, greenish gray, medium-grained, with disseminated pyrite and lesser chalcopyrite, with some chalcocite neighboring pyrite and chalcopyrite locally, especially down to 50 ft. with traces of bornite locally, generally slightly vuggy and fractured, with limonite on fractures down to 200 ft. and below that minor and with some hematite on fractures especially below 200 feet.	110	120			.14	.01	1						
				120	130			.16	.01	1						
				130	150			.12	.01	2						
				150	160			.08	Tr	1						
				180	200			.13	.01	1						
				200	210			.07	.01	1						
				210	220			.07	Tr	1						
				220	240			.14	.01	2						
				240	250			.08	.01	2						
			- with some shearing at 117' and 121-122' and in shallow part of hole highly fractured	250	260			.10	.02	1						
			- moderate fracturing below 200 feet	260	270			.12	Tr	1						
			- 270-287 with limonite on fractures and with some shearing, especially at 287'.	270	280			.12	.04	1						
				280	290			.10	.02	0.5						
				290	300			.07	Tr	0.5						
			- below 310 with chlorite alteration and increased shearing.	300	310			.07	.01	0.5						
				310	320			.09	Tr	0.5						
			- 345-350 with considerable disseminated magnetite.	320	330			.08	Tr	1						

## DIAMOND DRILL RECORD

FROM		TO	DESCRIPTION	CORE LENGTH				ASSAYS				ACCUMULATIVE AVERAGES					
				FROM	TO	ACC WIDTH	SAMPLE NO.	FROM	TO	% CU	MO	PY-RITE	AU W	AG W	CU W	MO	
			354-362 vuggy and silicified					330	340	.09	Tr	1					
			at 380 continued slightly altered quartz diorite					340	350	.31	Tr	1					
			greenish gray, medium-grained, with sparse					350	360	.12	Tr	1					
			chalcopyrite and locally with chalcocite on					360	370	.12	.Tr	1					
			fractures adjacent to chalcopyrite, slightly					370	380	.11	.01	0.5					
			vugular, with quartz partially filling vugs.					380	390	.10	Tr	0.5					
								390	400	.08	Tr	0.5					
								400	410	.05	Tr	0.5					
			425-444 with minor hematite on fractures, with some					410	420	.04	Tr	0.5					
			disseminated magnetite, with some epidote on					420	430	.03	Tr	0.5					
			fractures, quite vuggy, with some shearing at 425					430	440	.04	Tr	.05					
			but generally only moderately fractured.					440	450	.06	Tr	1					
			- Below 460 with more alteration (by chlorite,					450	460	.04	Tr	2					
			epidote and locally silica) with some chal-					460	470	.03	Tr	2					
			cocite near pyrite and chalcopyrite fracture					470	480	.05	Tr	2					
			fillings and stringers.					480	490	.08	Tr	2					
								490	500	.07	.01	2					
								500	510	.18	.01	2					
			- Below 520 with more vugs and shearing.					510	520	.08	.01	2					
								520	530	.15	.02	2					
								530	540	.17	.01	2					
								540	550	.13	Tr	2					



## DIAMOND DRILL RECORD

		DESCRIPTION	CORE LENGTH				ASSAYS				ACCUMULATIVE AVERAGES				
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	FROM TO <del>XXXXXX</del>	% CU	MO	PY-RITE	AU W	AG W	CU W	MO	
549	549-1/2	Silicified fault gouge													
549-1/2	590	Quartz diorite, mottled off-white and greenish-gray, partially to almost completely kaolinized, not highly fractured except for intense shearing locally (as at 550 & 581) grading into less altered rock, 581-590					550	560	.48	.02	0.5				
							560	570	.46	.03	0.1				
							570	580	.24	.01	0.5				
							580	590	.07	.01	1				
590	615	Quartz diorite, slightly altered, greenish-gray fine to medium-grained, with epidote alteration, especially on fractures, moderately fractured, somewhat vuggy, with disseminated pyrite, lesser chalcopyrite and with some hematite on fractures, grades into chilled border facies at 615 with shearing at 605 with disseminated magnetite below 605					590	600	.08	Tr	1				
							600	610	.11	.01	3				
							610	620	.38	.02	3				
							620	630	.20	.02	3				
615	675	Chilled border facies on quartz diorite pluton, greenish gray, fine-grained to porphyritic with aphanitic groundmass, with ghosts of feldspar crystals as phenocrysts, with disseminated pyrite and chalcopyrite; sheared and silicified contact at 675					630	640	.52	.04	3				
							640	650	.16	.02	3	610	720	.39	.02
							650	660	.27	.02	3				
							660	670	.36	.02	3				
							670	680	.41	.02	3				
675	678	Silicified andesite, off-white mottled with gray					680	690	.66	.03	3				
678	903	Andesite, greenish gray, fine-grained to aphanitic, with considerable fracturing and epidote alteration, somewhat vuggy with disseminated pyrite and chalcopyrite, especially on fractures and in vugs, with some calcite fracture fillings, with abundant					690	700	.63	.02	4				
							700	710	.29	.01	4				
							710	720	.41	.01	5				
							720	730	.13	.01	4				
							730	740	.26	.01	4				

## DIAMOND DRILL RECORD

FROM		TO	DESCRIPTION	CORE LENGTH				ASSAYS				ACCUMULATIVE AVERAGES				
				FROM	TO	ACC WIDTH	SAMPLE NO.	FROM	TO	% CU	MO	PY-RITE	AU W	AG W	CU W	
			disseminated magnetite locally, moderately fractured and becoming more fractured and altered					740	750	.16	.01	4				
			below 810, locally silicified, with numerous calcite veinlets.					750	760	.11	.02	3				
								760	770	.13	.01	3				
								770	780	.18	.01	3				
								780	790	.11	.01	3				
								790	800	.13	.01	4				
								800	810	.16	.02	4				
								810	820	.29	.01	5				
								820	830	.26	.01	5				
			Silicified andesite, light gray to off-white, highly fractured, with disseminated pyrite and traces of chalcopyrite.					830	840	.04	.01	5				
903	919							840	850	.07	.01	5				
								850	860	.09	.01	6				
920	1026		Andesite, medium gray, very fine-grained, locally very finely porphyritic, moderately to highly fractured, with abundant epidote and calcite on fractures, with disseminated pyrite and magnetite and more locally disseminated chalcopyrite as at 940', 945', 949', 957', 964', 974', 1002', 1004', and 1013'.					860	870	.29	.02	6				
								870	880	.52	.02	4				
								880	890	.14	.01	4				
								890	900	.10	Tr	4				
								900	910	.09	.02	4				
								910	920	.13	.01	4				
								920	930	.20	.02	4				
								930	940	.22	.01					
								940	950	.39	.02					
								950	960	.40	.03					
								960	970	.39	.02					
								970	980	.06	.02					
								980	990	.05	.01					

DIAMOND DRILL RECORD

FROM		TO	DESCRIPTION	CORE LENGTH				ASSAYS				ACCUMULATIVE AVERAGES			
				FROM	TO	ACC WIDTH	SAMPLE NO.	FROM	TO	% CU	MO	PY-RITE	AU W	AG W	CU W
								990	1000	.08	.01				
								1000	1010	.13	Tr				
								1010	1020	.09	Tr				
1026	1056		Silicified andesite, off-white, moderately fractured with abundant disseminated pyrite and some magnetite, with very minor hematite locally on fractures, grading into					1020	1030	.08	.01				
								1030	1040	.02	Tr				
								1040	1050	.02	.02				
								1050	1060	.08	.03				
1056	1148		Andesite, medium to greenish gray, very fine-grained, near bottom becoming slightly porphyritic, with considerable epidote on fractures, with numerous calcite fracture and vein fillings, locally slightly silicified, with disseminated pyrite and some to abundant magnetite, with minor hematite on fractures locally, with sparse chalc pyrite locally, pyrite especially abundant near 1112', becoming slightly silicified 1142-48'.					1060	1070	.06	Tr				
								1070	1080	.04	.01				
								1080	1090	.05	Tr				
								1090	1100	.08	.01				
								1100	1110	.10	Tr				
								1110	1120	.16	Tr				
								1120	1130	.06	Tr				
								1130	1140	.02	Tr				
								1140	1148	.06	Tr				

Datum: 33+30N, 9+20E

Depth: 0 500 1000 1500 1975  
 Bearing: N55°W N43W N38W N32W N28W  
 Dip: -45° -50° -52° -51.5° -46.5°  
 Elevation: 3970'

Started: August 9, 1970

Completed: August 25, 1970

Ultimate Depth: 1995'

Logged by: C. C. McFall

Drilled by: D. W. Coates Enterprises

Recovery: Essentially 100%

Assays by: TSL, Smithers

BIG ONION

HOLE NO. C-8 PAGE 1

## DIAMOND DRILL RECORD

FROM		TO	DESCRIPTION	CORE LENGTH			ASSAYS				ACCUMULATIVE AVERAGES						
				FROM	TO	ACC WIDTH	SAMPLE NO.	DEPTH	% CU	MO		AU W	AG W	CU W			
0	28		Overburden														
28	95		Andesite, dark gray to light gray and greenish gray moderately to highly fractured, locally with quartz, calcite, and/or epidote in fractures, locally vuggy, with limonite on fractures, locally slightly silicified and chloritized					26	30	Tr	Tr						
								30	40	Tr	Tr						
								40	50	Tr	Tr						
								50	60	Tr	Tr						
								60	70	0.01	Tr						
								70	80	0.02	Tr						
								80	90	0.01	Tr						
	95		One-inch fault gouge					90	100	0.01	Tr						
95	107		Silicified and partly kaolinized andesite, moderately to highly fractured and vuggy, with limonite on fractures with some disseminated pyrite (abundant 103-107) with show of malachite at 107 with very intense fracturing.					100	110	0.12	Tr						
								110	120	0.04	Tr						
								120	130	0.03	Tr						
								130	140	0.03	Tr						
								140	150	0.02	Tr						
107	219		Andesite, dull greenish gray, porphyritic with small scattered hornblende(?) phenocrysts, with disseminated pyrite, moderately to highly fractured, with limonite, on fractures, locally highly vuggy and altered, with epidote and limonite, locally with considerable disseminated magnetite and pyrite, with quartz partially filling vugs, with minor black-stains on fractures with some disseminated chalcopyrite and bornite at 200', slightly to much silicified below 185'.					150	160	0.03	Tr						
								160	170	0.03	0.01						
								170	180	0.04	Tr						
								180	190	0.05	Tr						
								190	200	0.17	Tr						
								200	210	0.16	Tr						
								210	220	0.15	0.01						

DIAMOND DRILL RECORD

FROM		TO	DESCRIPTION	CORE LENGTH				ASSAYS				ACCUMULATIVE AVERAGES			
				FROM	TO	ACC WIDTH	SAMPLE NO.	DEPTH	AG W	% CU	MO	AU W	AG W	CU W	
219	628		Silicified andesite, light gray to off-white					220	230	0.02	Tr				
			with much disseminated pyrite, moderately					230	240	0.04	0.01				
			to highly fractured and locally sheared, with					240	250	0.01	Tr				
			limonite on fractures down to 240', slightly					250	260	0.01	Tr				
			vuggy, with some quartz and locally some					260	270	0.01	Tr				
			kaolin in fractures, locally kaolinized down to					270	280	Tr	Tr				
			250', with some limonite on fractures 390-430					280	290	0.02	0.01				
			with traces of chalcacite?, locally partly					290	300	0.01	0.01				
			kaolinized especially near sheared zones,					300	310	Tr	0.01				
			below 604 less fractured.					310	320	Tr	Tr				
								320	330	Tr	Tr				
								330	340	Tr	Tr				
								340	350	0.01	Tr				
								350	360	Tr	Tr				
								360	370	Tr	Tr				
								370	380	Tr	Tr				
								380	390	Tr	Tr				
								390	400	0.02	Tr				
								400	420	0.08	Tr				
								420	430	0.08	0.01				
								430	440	0.02	Tr				
								440	450	0.01	Tr				
								450	460	0.01	Tr				
								460	470	Tr	Tr				
								470	480	0.01	Tr				

## DIAMOND DRILL RECORD

FROM		TO	DESCRIPTION	CORE LENGTH				DEPTH ASSAYS				ACCUMULATIVE AVERAGES			
				FROM	TO	ACC WIDTH	SAMPLE NO.	<del>MO</del>	<del>CU</del>	% CU	MO	AU W	AG W	CU W	
								480	490	0.01	Tr				
								490	500	Tr	Tr				
								500	510	0.02	Tr				
								510	520	0.02	Tr				
								520	530	0.03	Tr				
								530	540	0.04	Tr				
								540	560	0.02	.01				
								580	600	0.01	Tr				
628	640		Andesite, gray, fine-grained to aphanitic, with disseminated pyrite, highly fractured and highly sheared 635-640					620	640	0.03	Tr				
640	818		Silicified andesite, mottled light gray and off-white, with disseminated pyrite, not very fractured except highly fractured locally, slightly vuggy, with some kaolin in highly fractured zones, grades into					660	680	Tr	Tr				
								700	720	Tr	Tr				
								740	760	0.02	Tr				
								780	800	0.02	Tr				
818	830		Andesite, gray, to greenish-gray, fine-grained to aphanitic, with abundant disseminated pyrite, slightly altered with epidote and chlorite? moderately fractured					820	840	0.05	Tr				
830	860		Partly silicified andesite, gray, fine-grained to aphanitic, moderately to little fractured with veinlets of quartz and epidote, locally vuggy, with disseminated pyrite, especially on fractures.												
860	932		Andesite, dark gray to greenish-gray, fine-grained to aphanitic, moderately fractured except highly fractured below 883, with abundant disseminated pyrite, with epidote along fractures, with some chalcocite & traces of chalcopyrite, with sparse calcite fracture fillings, locally partly silicified.					860	880	0.03	Tr				
								900	920	0.03	.01				

## DIAMOND DRILL RECORD

FROM	TO	DESCRIPTION	CORE LENGTH				ASSAYS				ACCUMULATIVE AVERAGES			
			FROM	TO	ACC WIDTH	SAMPLE NO.	DEPTH	DEPTH	% CU	MO	AU W	AG W	CU W	
932	946	Andesite, as above but with abundant magnetite and also more pyrite with the magnetite					940	960	.10	.01				
946	981	Silicified andesite, off-white to very light gray, moderately to little fractured, with disseminated pyrite and with some disseminated <sup>chalcopryite</sup> especially on fractures, locally with hematite after magnetite, slightly to quite vuggular, with traces of molybdenite on fractures and in voids												
981	989	Andesite, dark gray, aphanitic, with considerable epidote on fractures, highly fractured, with considerable disseminated pyrite and magnetite.					980	1000	.05	Tr				
989	990	Silicified andesite, very light gray, highly fractured with considerable disseminated pyrite.												
		Andesite, dark gray, aphanitic, with considerable epidote and abundant and disseminated pyrite and magnetite, highly fractured, locally vuggular, & with calcite veinlets, with a few thin silicified zones, locally with minor hematite on fractures.												
990	1121	Andesite, greenish gray with epidote alteration, with veinlets of calcite and quartz, highly to moderately fractured, with disseminated pyrite, locally quite vuggular, locally with disseminated magnetite, with sparse hematite on fractures locally silicified 1099-1103.					1020	1040	.09	Tr				
							1060	1080	.07	Tr				
							1100	1120	.06	Tr				

## DIAMOND DRILL RECORD

FROM		TO	DESCRIPTION	CORE LENGTH			ASSAYS				ACCUMULATIVE AVERAGES					
				FROM	TO	ACC WIDTH	SAMPLE NO.	DEPTH	% CU	MO	AU W	AG W	CU W			
1121	1137		Silicified andesite, very light gray, with much disseminated pyrite, moderately fractured with some epidote alteration, slightly vuggy.													
1137	1162		Andesite, greenish gray with much epidote alteration much disseminated pyrite, highly fractured with some magnetite.					1140	1160	.18	Tr					
1162	1180		Silicified andesite, off-white to light gray, with disseminated pyrite, moderately to little fractured, locally slightly vuggy.					1180	1200	.08	Tr					
1180	1247		Andesite, medium gray to greenish gray, very fine-grained to locally porphyritic, becoming highly fractured below 1220, with disseminated pyrite, with sparse to abundant magnetite, with minor hematite on fractures locally,					1220	1240	.09	.01					
1247	1350		Silicified to partly silicified andesite with irregular veinlets of calcite, with some chlorite and epidote alteration, with much disseminated pyrite, locally with considerable magnetite, 1306-1314 partly kaolinized, grading into:					1260	1280	.15 ?	Tr					
								1300	1320	.06	Tr					
								1340	1360	.03	.01					
1350	1405		Andesite light greenish gray, aphanitic to fine-grained with disseminated pyrite and locally disseminated magnetite, with some hematite after magnetite, with epidote & some chlorite alteration, little fractured, with calcite veinlets & fracture fillings, grading into:					1380	1400	.04	Tr					



## DIAMOND DRILL RECORD

FROM		TO	DESCRIPTION	CORE LENGTH				ASSAYS				ACCUMULATIVE AVERAGES					
				FROM	TO	ACC WIDTH	SAMPLE NO.	DEPTH	DEPTH	% CU	MO	AU W	AG W	CU W			
1405		1430	Silicified andesite, off-white to very light gray, with disseminated pyrite, little fractured with magnetite locally, with calcite veinlets, grading down into:					1420	1440	.03	Tr						
1430		1465	Andesite as above 1350-1415, locally partly silicified, grading down into:					1460	1480	.03	.01						
1465		1540	Silicified andesite, off-white to very light greenish gray, with disseminated pyrite, little fractured, locally with some specularite, grading down into:					1500	1520	Tr	Tr						
1540		1933	Andesite, light gray to greenish gray, slightly silicified locally with abundant epidote, with disseminated pyrite, locally abundant with numerous irregular calcite veinlets, locally with disseminated magnetite, locally with hematite after magnetite, becomes generally less silicified downward but with local silicified zones as at 1772-1774, local gypsum fracture-fillings becoming mottled below 1800 due to abundant epidote, magnetite, calcite, gypsum and chlorite (?)					1540	1560	.02	Tr						
								1580	1600	Tr	Tr						
								1620	1640	Tr	Tr						
								1660	1680	Tr	Tr						
								1700	1720	Tr	Tr						
								1740	1760	.01	Tr						
								1780	1800	Tr	Tr						
								1820	1840	.03	Tr						
								1860	1880	.02	Tr						
								1900	1920	.03	Tr						
1933			Fault? with much shearing & calcite veins some silicification.														
1933		1995	Andesite, greenish gray, fine-grained with epidote pyrite, some magnetite, with calcite veinlets sheared near 1933 but otherwise moderately to little fractured.					1940	1960	.01	Tr						
								1980	2000	.03	Tr						

Datum: Approximately 28+30N, 14+80W  
 Depth: 0 500 850  
 Bearing: S30°E S36°E S36°E  
 Dip: -45° -50° -52°

Started: August 31, 1970  
 Completed: September 3, 1970  
 Ultimate Depth: 850'  
 Elevation: Approx. 4130'

Logged by: C. C. McFall  
 Drilled by: D. W. Coates Enterprises  
 Recovery: Essentially 100%  
 Assays by: TSL, Smithers

BIG ONION

HOLE NO. C-9 PAGE 1

DIAMOND DRILL RECORD

FROM		TO	DESCRIPTION	CORE LENGTH				ASSAYS				ACCUMULATIVE AVERAGES						
				FROM	TO	ACC WIDTH	SAMPLE NO.	DEPTH	DEPTH	% CU	MO	AU W	AG W	CU W				
0	50		overburden															
50	135		Andesite, greenish gray weathering light yellow- ish brown, with abundant limonite on fractures and vugs, highly fractured with some chalcocite on fractures, locally with many vugs and highly sheared and altered, locally silicified, below 70' with disseminated pyrite, below 115' only moderately fractured with some calcite veinlets, locally porphyritic.					50	60	.04	.01							
								60	70	.02	.01							
								70	80	.02	.01							
								80	90	.03	Tr							
								90	100	.09	.01							
								100	120	.03	.01							
135	266		Silicified andesite, mottled off-white and light gray, with disseminated pyrite, moderately frac- tured, somewhat vuggy, with limonite on fractures and vugs, with traces of chalcopyrite and molybdenite.					180	200	.06	.02							
								220	240	.07	.02							

## DIAMOND DRILL RECORD

FROM	TO	DESCRIPTION	CORE LENGTH				DEPTH ASSAYS				ACCUMULATIVE AVERAGES			
			FROM	TO	ACC WIDTH	SAMPLE NO.	<del>DEPTH</del>	<del>DEPTH</del>	% CU	MO	AU W	AG W	CU W	
266	435	Silicified chilled phase on quartz diorite pluton mottled off-white to light gray, with prominent ghosts of phenocrysts, with some kaolinization, moderately fractured, with disseminated pyrite, with some disseminated chalcopyrite and molybdenite, with latter mainly on fractures where present with intense shearing 312-313.					260	280	.06	.03				
							300	320	.07	.03				
							340	360	.07	.02				
							380	400	.06	.02				
435	544	As above but with highly altered and locally with more disseminated chalcopyrite and molybdenite. (sheared contact)					400	410	0.06	0.01				
							410	420	0.07	0.02				
							420	430	0.04	0.02				
							430	440	0.04	0.01				
							440	450	0.07	0.02				
							450	460	0.12	0.01				
							460	470	0.13	Tr				
							470	480	0.12	0.01				
						480	490	0.15	0.04					
						490	500	0.04	0.02					

## DIAMOND DRILL RECORD

FROM	TO	DESCRIPTION	CORE LENGTH				DEPTH ASSAYS				ACCUMULATIVE AVERAGES				
			FROM	TO	ACC WIDTH	SAMPLE NO.	<del>DEPTH</del>	<del>DEPTH</del>	% CU	MO	AU W	AG W	CU W		
								500	510	0.10	Tr				
								510	520	0.10	0.01				
								520	530	0.12	Tr				
								530	540	0.04	Tr				
544	850	Quartz diorite, greenish gray, medium-grained						540	550	0.13	0.01				
		moderately fractured, with disseminated pyrite,						550	560	0.11	Tr				
		locally with disseminated magnetite and/or						560	570	0.12	Tr				
		chalcopyrite, with local traces of molybdenite,						570	575	0.11	Tr				
		and chalcocite (?) with some hematite on frac-						575	580	0.13	0.01				
		tures locally, with some epidote veinlets, somewhat vuggular,						580	590	0.13	Tr				
		becoming generally quite altered below 590' with						590	600	0.12	0.01				
		both kaolinization and silicification, with marble-						600	610	0.09	Tr				
		like texture locally, 590'-600' with some gypsum						610	620	0.11	Tr				
		veinlets, locally with calcite and/or quartz vein-						620	630	0.18	0.01				
		lets, 595'-708' especially altered and sheared and						630	640	0.09	0.01				
		with more disseminated chalcopyrite, with some						640	650	0.09	0.01				
		disseminated magnetite below 770'						650	660	0.10	0.01				
								660	670	0.07	0.01				
								670	680	0.12	0.01				
								680	690	0.10	Tr				
								690	700	0.08	0.01				
								700	710	0.07	0.02				
								710	720	0.06	Tr				
								720	730	0.12	0.02				
								730	740	0.09	0.01				

DIAMOND DRILL RECORD

DESCRIPTION		CORE LENGTH				ASSAYS				ACCUMULATIVE AVERAGES				
		FROM	TO	ACC WIDTH	SAMPLE NO.	DEPTH	% CU			AU W	AG W	CU W		
						740	750	0.08	Tr					
						750	760	0.08	0.01					
						760	770	0.06	Tr					
						770	780	0.09	Tr					
						780	790	0.04	Tr					
						790	800	0.06	0.01					
						800	810	0.03	Tr					
						810	820	0.02	0.01					
						820	830	0.05	0.01					
						830	840	0.06	0.01					
						840	850	0.07	0.01					



## DIAMOND DRILL RECORD

		DESCRIPTION	CORE LENGTH				ASSAYS				ACCUMULATIVE AVERAGES			
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	FROM	TO	% CU	MO	AU W	AG W	CU W	
350	544	Quartz diorite, altered, greenish gray speckled with white fine to medium-grained, locally porphyritic, with disseminated pyrite, with sparse disseminated chalcopyrite, moderately to little fractured, near 430' with traces of molybdenum, 450'-470' more altered, and with more chalcopyrite, below 450', with some magnetite and traces of hematite, highly altered and sheared near 544'. Gradational Contact					400	420	.08	.03				
							440	460	.09	.01				
							480	500	.10	Tr				
							520	540	.12	Tr				
544	665	Chilled phase on quartz diorite pluton mottled light and medium gray, with disseminated pyrite, locally porphyritic, with traces of chalcopyrite and molybdenite Gradational Contact					560	580	.11	Tr				
							600	620	.15	Tr				
							640	660	.10	Tr				
665	705	Quartz diorite as above (350'-544') Gradational Contact					680	700	.13	.01				
705	750	Chilled phase on quartz diorite pluton as above (544'-665')					720	740	.14	.02				
							750	760	.06	Tr				
750	850	Quartz diorite, as above, with fine-grained zones, becoming increasingly kaolinized with depth, grading down into					760	780	.10	.02				
							780	790	.08	Tr				
							790	800	.12	.01				
							800	820	.06	Tr				
							820	830	.06	Tr				
							830	840	.04	.01				
							840	860	.04	Tr				

DIAMOND DRILL RECORD

FROM TO		DESCRIPTION	CORE LENGTH				ASSAYS				ACCUMULATIVE AVERAGES			
			FROM	TO	ACC WIDTH	SAMPLE NO.	FROM TO	% CU	MO		AU W	AG W	CU W	
850	900	Highly altered quartz diorite, very light greenish gray, mottled appearance, with disseminated pyrite, and (locally) specularite (?) with traces of hematite on fractures, with minor chalcocopyrite and traces of molybdenum, locally with some chalcocite coatings on pyrite, with quartz and calcite veinlets, with chlorite (?) on fractures grades into					860	870	.04	Tr				
							880	890	.06	.01				
							880	900	.05	Tr				
900	925	Quartz diorite, altered, light greenish gray, medium grained, otherwise as above.					900	910	.04	.01				
							910	920	.07	.01				
925	929	Chilled phase on quartz diorite pluton, greenish gray, fine-grained with some chloritization, with some disseminated pyrite, chalcocopyrite and considerable magnetite, with epidote increasing downward, highly fractured 926-929					920	930	.09	Tr				
932	998-1/2	Chilled phase on quartz diorite pluton, dark greenish gray, very fine-grained with epidote, with much pyrite, and magnetite, and minor chalcocopyrite, moderately to little fractured, with some veinlets of gypsum.					930	940	.02	Tr				
							940	950	.02	Tr				
							950	960	.05	Tr				
							960	970	.01	Tr				
							970	980	.01	Tr				
							980	990	.01	Tr				
						990	1000	.01	Tr					





Location: 39+20N, 11+30W  
 Started: Sept. 17, 1970  
 Completed: September 28, 1970  
 Ultimate Depth: 826'  
 Elevation: 4370'

Depth	Bearing	Dip
0	S30E	-60°
500	S32E	-66°
826	S24E	-70°

Logged by: C. C. McFall  
 Drilled by: D. W. Coates Enterprises  
 Recovery: Essentially 100%  
 Assays by: TSL, Smithers, B. C.

BIG ONION

HOLE NO. C-11 PAGE 1

DIAMOND DRILL RECORD

DESCRIPTION			CORE LENGTH				ASSAYS				ACCUMULATIVE AVERAGES			
			FROM	TO	ACC WIDTH	SAMPLE NO.	FROM	TO	% CU	MO	AU W	AG W	CU W	
0	70	Overburden					70	90	.67	.01				
70	215	Silicified andesite (?) partly kaolinized, with disseminated pyrite, and lesser chalcopyrite, with considerable disseminated chalcocite, fading out about 110', mottled very light and medium gray, with limonite on fractures 70-72					90	100	.13	.01				
		97-101, 103-111, 120-137, highly fractured, with traces of molybdenite, especially kaolinized below 146'					100	110	.09	.01				
		(Sheared contact with quartz in vugs)					110	130	.15	.02				
							130	140	.33	.03				
							140	150	.30	.02				
							150	170	.26	.03				
							170	180	.21	.02				
							180	190	.24	.02				
							190	210	.16	.03				
215	380	Silicified chilled phase on quartz diorite pluton, partly kaolinized, off-white to mottled light gray, with disseminated pyrite and lesser chalcopyrite with some limonite on fractures 239-					210	220	.11	.02				
		highly fractured, with some chalcocite on fractures, vugs, and pyrite, with molybdenite on fractures near 380					220	230	.09	.02				
		(Gradational Contact)					230	250	.12	Tr				
							250	260	.13	Tr				
							260	270	.10	Tr				
							270	290	.07	Tr				
							290	300	.14	Tr				
							300	310	.15	Tr				
							310	330	.14	.01				
							330	340	.14	Tr				
							340	350	.16	.02				
							350	370	.15	.01				
							370	380	.27	.03				

## DIAMOND DRILL RECORD

		DESCRIPTION	CORE LENGTH				ASSAYS				ACCUMULATIVE AVERAGES			
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	FROM	TO	% CU	MO	AU W	AG W	CU W	
380	438	Quartz diorite, medium gray to light greenish gray, fine-grained grading downward to medium-grained with disseminated pyrite and sparse chalcopyrite becoming sparse with depth, with traces of molybdenite highly fractured grading downward to moderately fractured, becomes finer-grained near 438' but with some shearing at 438'					380	390	.14	.02				
							390	410	.10	Tr				
							410	420	.10	Tr				
							420	430	.05	Tr				
438	450	Silicified fault gouge (?) pale tannish gray aphanitic with minor blebs of chlorite (?) and with quartz "Eyes" and blebs of magnetite and of sericite					430	450	.05	Tr				
450	523	Quartz diorite, greenish gray, fine to medium-grained with some disseminated pyrite and lesser chalcopyrite with some vugs locally with blebs of chalcopyrite in vugs, possibly sheared near 450', grading finer-grained locally and near 523' (Intrusive Contact)					450	460	.06	Tr				
							460	470	.07	Tr				
							470	490	.11	Tr				
							490	500	.15	Tr				
							500	510	.21	.01				
							510	530	.22	Tr				
523	675	Andesite, greenish gray, fine-grained to aphanitic with epidote alteration, with disseminated pyrite and with chalcopyrite locally highly fractured near 523 grading down to moderately fractured, with some silicified zones below 611' and with many veinlets of quartz, becoming highly altered and sheared and with considerable pyrite near fault (?) at 675'					530	540	.21	Tr				
							540	550	.16	Tr				
							550	570	.18	.01				
							570	580	.14	Tr				
							580	590	.20	.01				
							590	610	.22	Tr				
							610	620	.18	Tr				
							620	630	.13	.01				
							630	640	.16	.01				

DIAMOND DRILL RECORD

DESCRIPTION		CORE LENGTH				ASSAYS				ACCUMULATIVE AVERAGES			
FROM	TO	FROM	TO	ACC WIDTH	SAMPLE NO.	FROM	TO	% CU	MO	AU W	AG W	CU W	
675	719					640	650	0.26	0.02				
						650	660	0.20	0.02				
						660	670	0.15	0.01				
						670	680	0.30	0.01				
						680	690	0.02	0.01				
719	826					690	700	0.02	0.01				
						720	740	0.01	Tr				
						760	780	0.01	Tr				
						800	826	0.01	Tr				

Datum: 66+25N, 2+30E  
 Elevation: 4790'  
 Started: Sept. 25, 1970  
 Completed: Oct. 1, 1970  
 Ultimate Depth: 1246'

Depth	Bearing	Dip
0	S 61°E	-45°
500	S 72°E	-55°
1000	S 75°E	-59-1/2°
1246	N74°W(?)	-53°

Logged by: C.C. McFall  
 Drilled by: D.W. Coates Enterprises  
 Recovery: Essentially 100%  
 Assays by: TSL, Smithers, B.C.

BIG ONION

HOLE NO. C-12 PAGE 1

DIAMOND DRILL RECORD

FROM		TO	DESCRIPTION	CORE LENGTH				DEPTH ASSAYS				ACCUMULATIVE AVERAGES			
				FROM	TO	ACC WIDTH	SAMPLE NO.	ALLOY	AG OZ	% CU	% MO	AU W	AG W	CU W	
0	85'		Overburden					85	90	.60	.01				
85	625		Quartz diorite - light grey becoming greenish-grey					90	100	.53	.01				
			with depth - medium to coarse grained - highly					100	110	.39	.01				
			fractured, with disseminated pyrite - chalcopyrite					110	120	.17	Tr				
			and chalcocite (?) with traces of bornite - partly					120	130	.26	Tr				
			kaolinized - locally slightly vugular,					130	140	.14	.01				
			below 125' traces of magnetite and hematite -					140	150	.20	.01				
			chalcocite not apparent below 135', with					150	160	.15	Tr				
			sulfides mainly along fractures and as replace-					160	170	.15	Tr				
			ments of ferromagnesian minerals					170	180	.11	Tr				
			157'-158' possible fault zone - highly sheared					180	190	.14	Tr				
			and kaolinized,					190	200	.13	Tr				
			Slightly porphyritic zone 160'-163' with					200	210	.22	Tr				
			prominent quartz filled vugs at 164' with concen-					210	220	.23	Tr				
			trations of molybdenite and pyrite,					220	240	.13	Tr				
			With local shearing - becoming intense 198'-209',					240	250	.12	Tr				
			Kaolinization local before 200',					250	260	.16	.01				
			Possible fault at 216'					260	270	.12	Tr				
			At 302' with considerable specular hematite and					270	280	.13	Tr				
			disseminated specular hematite nearby,					280	290	.13	Tr				
			Possible fault at 375' with considerable nearby					290	300	.18	Tr				
			shearing,					300	310	.22	Tr				
			Occasional porphyritic zones (with fine					310	320	.14	Tr				
			groundmass as at 365' to 372' and 381' to 388'),					320	340	.20	Tr				
			Possible fault at 416',					340	350	.11	Tr				

## DIAMOND DRILL RECORD

FROM	TO	DESCRIPTION	CORE LENGTH				DEPTH ASSAYS				ACCUMULATIVE AVERAGES				
			FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	% Mo	AU W	AG W	CU W		
		with some calcite in vugs,					350	360	.11	Tr					
		locally with epidote alteration,					360	380	.13	Tr					
		with shearing at 537',					380	390	.10	Tr					
		in vicinity of 580' vuggy with calcite in vugs,					390	400	.14	Tr					
		with chlorite and some hematite after					400	420	.23	Tr					
		magnetite on shear surfaces					420	430	.20	Tr					
		(Gradational Contact)					430	440	.18	Tr					
							440	460	.18	Tr					
625	956	Chilled phase on quartz diorite pluton,					460	470	.12	Tr					
		generally greenish grey, porphyritic and fine-					470	480	.12	.01					
		grained grading down to very fine-grained,					480	500	.17	Tr					
		locally very highly Kaolinized (?) and					500	510	.25	Tr					
		chloritized,					510	520	.17	.01					
		quite vugular, with much shearing					520	530	.23	Tr					
		and fracturing, with disseminated pyrite,					530	540	.20	Tr					
		chalcopyrite, and some molybdenite, with					540	550	.24	Tr					
		epidote common below 840', locally with					550	560	.20	Tr					
		chalcocite (?)					560	570	.25	Tr					
		884'-898' especially sheared and with much					570	580	.25	Tr					
		pyrite in veinlets and more chalcopyrite					580	590	.23	Tr					
		898'-956' dark greenish grey, little fractured,					590	600	.18	Tr					
		and continued heavy pyrite veinlets,					600	610	.18	Tr					
		(Sheared Contact)					610	620	.20	Tr					
							620	630	.12	.01					
							630	640	.23	.01					

DIAMOND DRILL RECORD

FROM		TO	DESCRIPTION	CORE LENGTH				ASSAYS				ACCUMULATIVE AVERAGES			
				FROM	TO	ACC WIDTH	SAMPLE NO.	DEPTH	DEPTH	% CU	% MO	DEPTH	DEPTH	CU W	% MO
956	998		Altered tuff, dull red to varying shades of grey, moderately fractured, locally vugular, with disseminated pyrite, minor chalcopryrite, and some chalcocite (?)					640	650	.57	.01	640	800	.39	.006
								650	660	.69	Tr				
								660	670	.28	Tr				
								670	680	.36	Tr				
								680	690	.35	Tr				
								690	700	.27	Tr				
								700	710	.21	Tr				
								710	720	.17	Tr				
998	1010		Silicified tuff (?) vein ?, off-white, vugular, with disseminated pyrite,					720	730	.47	.01				
								730	740	.37	.01				
								740	750	.56	Tr				
1010	1024		Tuff, dull red to greenish grey, with disseminated pyrite, (grading into)					750	760	.36	Tr				
								760	770	.45	.02				
								770	780	.38	.02				
								780	790	.40	.02				
1024	1175		Silicified tuff, mottled but generally very pale grey, with disseminated pyrite but only traces of chalcopryrite, little fractured, with traces of epidote, with unsilicified zone 1086' - 1108', which contains a minor vuggy interval lined with crystalline calcite, sulfides sparse below 1100',					790	800	.37	Tr				
								800	810	.20	Tr				
								810	820	.14	Tr				
								820	830	.13	Tr				
								830	840	.26	Tr				
								840	850	.33	Tr				
								850	860	.08	Tr				
								860	870	.12	Tr				
								870	880	.17	Tr				
								880	890	.31	Tr				

## DIAMOND DRILL RECORD

		DESCRIPTION	CORE LENGTH				ASSAYS				ACCUMULATIVE AVERAGES			
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	DEPTH	DEPTH	% CU	% MO	AU W	AG W	CU W	
1175	1246	Tuff, dull red, very fine-grained, TD generally unmineralized and little fractured					890	900	.42	Tr				
							900	910	.24	Tr				
							910	920	.28	Tr				
							920	930	.22	Tr				
							930	940	.25	.01				
							940	950	.07	Tr				
							950	960	.06	Tr				
							960	970	.03	Tr				
							970	980	.02	Tr				
							980	990	.03	Tr				
							990	1000	.05	Tr				
							1000	1010	.05	Tr				
							1010	1020	.01	Tr				
							1020	1030	.01	Tr				
						1030	1040	Tr	Tr					
						1040	1050	Tr	Tr					
						1050	1060	Tr	Tr					
						1080	1100	Tr	Tr					
						1120	1140	Tr	Tr					
						1160	1180	Tr	Tr					
						1200	1220	Tr	Tr					
						1240	1246	Tr	Tr					