

Hole No. 57-82-1  
 Property T5,R7  
 Location L120N 265E  
 Project Code \_\_\_\_\_  
 Drilling Co. \_\_\_\_\_

Depth 0 - 120'  
 Elevation \_\_\_\_\_  
 Azimuth, Dip 330°, -60°  
 Drilling Date \_\_\_\_\_

Collared \_\_\_\_\_  
 Logged By R. Peale  
 Date \_\_\_\_\_  
 Comments \_\_\_\_\_

SAMPLE LOCATIONS	RECOVERY	MAGNETIC SUSCEPT.	STRUCTURE	DEPTH	MINERALIZATION	GRAPHIC LOG	DESCRIPTION	ASSAYS					
								Cu	Pb	Zn	Au / Ag		
				0			0 - 16' Overburden						
				16			16 - 17' Dacite porphyry and tuff rubble: FeO stained						
				17			17 - 37.5' Tuff and tuffaceous shale: medium grey (N5) to olive grey (5Y,4/1), light olive grey (5Y,6/1) to dark greenish grey (5GY,4/1); aphanitic to fine grained; irregular quartz masses and streaks present; erratically distributed pyrite as disseminations and masses; brecciated sections due to soft sediment deformation						
	100%	0.0-0.1		20	py tr		30.4 - 32' Dark grey shale with lighter layers						
	92%			30.4			37.5' Sharp contact at 50°						
				37.5			37.5 - 80' Dacite porphyry (crystal tuff?): greyish green (5G,5/2 - 10G,4/2) groundmass; medium grained to coarse grained phenocrysts in very fine grained to fine grained groundmass; groundmass 60%, quartz phenos 25%, feldspar phenos 5%, mafic phenos (biotite?) 10%; some dark greenish yellow (10Y,6/6) (sericite?) alteration after feldspar?; disseminated cubes, blebs and masses of fine grained pyrite present throughout, streaks of very fine grained pyrite also present						
	100%			40			55' Streaks and masses of pyrite becoming more common						
03808	100%			55	py 1-2% cp		56' 1/2" quartz vein at 20° with 2mm creamy colored feldspar outer boundary, chalcopyrite bleb in vein	5	10	55	4.02	4.2	
03809				56	py 1-2% py 3-5% py 1-2%		58' Fragments and streaks of aphanitic to fine grained tuff	5	15	50	4.02	.4	
				58			61' 1/2" thick massive pyrite zone						
	95%			61			61.2' Fine grained pyrite veinlet - possible small shear						
				61.2			80' Irregular, gradational contact; fragments and streaks of tuff in dacite porphyry matrix						
03810	99%			80	py tr-3%		80 - 82.8' Tuff?: similar to 17 - 37.5'	10	45	75	4.02	4.2	
03811				82.8			82.8' Irregular contact; tuff appears brecciated, squeezed	10	5	45	4.02	4.2	
				82.8			82.8 - 88.5' Dacite porphyry						
				86			86' Acid Test: -60° corrected						
				88.5			88.5' Contact Obscured						
03812	100%			88.5			88.5 - 94' Tuffaceous shale, tuff; similar to 17 - 37.5'; much brecciation in this section - soft sediment?;	15	10	75	4.02	4.2	
				90.4			90.4' Quartz vein at 10°						
				94			94' Irregular contact with brecciation and streaking out of tuff						
				94			94 - 143' Dacite porphyry						
				113			113' Slicks on fracture surface at 20°						
				117			117' Quartz-calcite veining at 15°						



Hole No. 57-82-1  
 Property \_\_\_\_\_  
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 Drilling Co. \_\_\_\_\_

Depth 240' - 360'  
 Elevation \_\_\_\_\_  
 Azimuth, Dip \_\_\_\_\_  
 Drilling Date \_\_\_\_\_

Collared \_\_\_\_\_  
 Logged By \_\_\_\_\_  
 Date \_\_\_\_\_  
 Comments \_\_\_\_\_

SAMPLE LOCATIONS	RECOVERY	MAGNETIC SUSCEPT.	STRUCTURE	DEPTH	MINERALIZATION	GRAPHIC LOG	DESCRIPTION	ASSAYS				
								Cu	Pb	Zn	Au / Ag	
03815	93%	0.0-0.1		240	py tr-1%		246.4' Contact at approximately 45° 246.4 - 268.3' Tuffaceous shale, tuff; similar to 17 - 37.5'; silicified in places	(all in ppm)	50	10	20	0.02 / 0.2
	100%			250			249 - 250' Silicified 257 - 265' Silicified; diffuse bordered, irregular quartz veins, veinlets, streaks present					
	99%			260			268.3' Sharp but wavy contact, partially obscured 268.3 - 289.5' Dacite porphyry; occasional quartz veins					
	100%			270			278' 1/2" quartz vein at 25° 289.5' Sharp contact at 55°					
	94%			280			289.5 - 309' Tuffaceous shale: similar to 17 - 37.5' 290.5 - 291.5' Dacite porphyry: up hole contact at 15°, down hole contact obscured					
	98%			290			298 - 300' Laminations faulted and gently folded, oriented at 0 - 15° 305.5' 0 - 1/2" quartz - calcite vein at 10°					
	95%			300			309 - 315.1' Tuff, tuffaceous shale, possible dacite porphyry: swirly, deformed, brecciated zone 315.1 - 316.6' Dacite porphyry					
	100%			310			316.6' Sharp contact at 30° 316.6 - 321.5' Andesite porphyry: greyish green (10G,4/2) to dusky green (5G,3/2); aphanitic to fine grained; fine grained to medium grained mafic and altered feldspar(?) phenos; feldspar phenos altered to dark greenish yellow (10Y,6/6) to light olive (10Y,5/4), aphanitic clay? minerals; this unit is similar to dacite porphyry but lacks quartz phenos, sharp Contact @ 20°					
				320			321.5 - 341.5' Dacite porphyry; occasional quartz veins, veinlets 334' 1/2" quartz-feldspar vein at 70°; moderate greenish yellow (10Y,7/4) to dark greenish yellow (10Y,6/6) sericite? - clay? alteration selvage					
				330			334.8' Greenish yellow alteration associated with quartz-feldspar streaks 336 - 341.5' Erratic gradual decrease in white quartz phenos					
				340			341.5 - 345.5' Andesite porphyry: similar to 316.6 - 321.5' but with pervasive moderate greenish yellow (10Y,7/4) to dark greenish yellow (10Y,6/6) clay? alteration					
				350			345.5 - 427' Tuff, tuffaceous shale: similar to 17 - 37.5' most of section is swirly, deformed (probably soft sediment), brecciated zones common; occasional quartz streaks, masses; pyrite content lower than previous					
			360									

sections; locally silicified sections with diffuse bordered, irregular quartz veins, veinlets, streaks





567.1 - 572.5' Andesite porphyry, silicified andesite porphyry with short sections of black, aphanitic shaley(?) matrix(?): matrix is softer than the rest of the section

568' Sphalerite streak in silicified andesite porphyry

569.8' Sphalerite chunk along contact between andesite and black matrix

570' Irregular quartz-calcite vein

570.2' Irregular sphalerite streaks, blebs in andesite porphyry (silicified)

572.5 - 617' Andesite porphyry: occasional quartz streaks, veins, veinlets; occasional zones of strong silicification and increased quartz veining; some fragments of andesite porphyry in matrix of same composition

582' Massive pyrite patch (fragment?) up to 1" wide, 4" long with disseminated chalcopyrite blebs

584' Irregular, rounded to rectangular patches up to 2.5" long of dark grey fine grained tuff(?)

588.5' Chalcopyrite blebs

598 - 603' Zones of dark grey to greenish black, very fine grained to fine grained matrix (?); contacts into this material are sharp to gradational

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Depth 600' - 720'  
 Elevation \_\_\_\_\_  
 Azimuth, Dip \_\_\_\_\_  
 Drilling Date \_\_\_\_\_

Collared \_\_\_\_\_  
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 Date \_\_\_\_\_  
 Comments \_\_\_\_\_

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								Cu	Pb	Zn	Au / Ag
03820	100%	0.0-0.1		600	py tr-1%		603' Chalcopyrite blebs associated with pyrite				
				610			615 - 616' 1/4" quartz vein at 0 - 10° 616 - 617' Quartz-calcite vein greater than 2" wide at 0 - 15° 616' Slicks on fracture surface at 10° 617 - 621.5' Brecciated tuffaceous shale, dark grey to greenish black fine grained matrix, andesite porphyry	440	15	45	4.02 / .2
				620	py 1-2%		621.5 - 635.5' Andesite porphyry with occasional white quartz phenos(?); quartz and quartz-calcite veins, veinlets, streaks present throughout	(all in ppm)			
				630			628.5 - 629' Fragments (blocky) of tuffaceous shale in dark grey, very fine grained matrix				
				640	ep		630' Tuffaceous shale surrounded by dark grey very fine grained matrix, upper and lower contacts approximately 35° 635.5 - 641.4' Dacite porphyry				
03821	100%			650	py tr-1%		641' Tuffaceous shale 641.4 - 649' Zone of dark grey (N3) to dark greenish grey (5GY,4/1), very fine grained to fine grained, mafic volcanic (some is same as dark grey matrix described previously) with downward increasing andesite porphyry fragments with gradational to sharp contacts	30	15	60	4.02 / 4.2
				660			646' Acid Test: -52° corrected				
				670	ep		649 - 709.9' Andesite porphyry: quartz and quartz-calcite veins present; brecciated zones present; quartz veins, veinlets, streaks have sharp and diffuse contacts, some veins show open space quartz filling				
				680			650 - 659.2' Zone of pervasive moderate greenish yellow (10Y,7/4) to dark greenish yellow (10Y,6/6) alteration 662.5 - 709.9' Zone of pervasive moderate greenish yellow to dark greenish yellow alteration				
03822	100%			690	ep		665' 1" brecciated zone at 30° with slickensided quartz vein on downhole side of zone: greenish yellow fragments in dark greenish grey very fine grained matrix - possible mylonite	1050	10	50	4.02 / .4
				700	ep		672' Chalcopyrite bleb in pyrite mass				
				710	ep		674 - 675' Angular to subrounded greenish yellow andesite porphyry fragments in white quartz matrix; mineralization is mostly in fragments but traces of disseminated pyrite are present in quartz; lower and upper contacts about 35°				
	99%			720	ep?		688.5' Chalcopyrite associated with pyrite				

708.5 - 709.9' Gradational transition out of pervasive alteration  
709.9 - 743.5' Andesite porphyry: greyish green (5G,5/2 - 10G,4/2) to  
dusky green (5G,3/2); fine grained, porphyritic, texture (grain size,  
phenocryst composition and size) more variable than previous sections; some  
white quartz phenocrysts present; occasional quartz veins, veinlets

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Hole No. 57-82-1  
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Depth 720' - 815'  
 Elevation \_\_\_\_\_  
 Azimuth, Dip \_\_\_\_\_  
 Drilling Date \_\_\_\_\_

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								Cu	Pb	Zn	Au/Ag		
	99%	0.0-0.1		720	Py tr-1%		721' Irregular zones of dark greenish black very fine grained matrix (?) material						
				730			743.5' Irregular contact						
03823	100%			750			743.5 - 807' Tuffaceous shale, tuff, shale: similar to 17 - 37.5'; some streaky and brecciated zones probably soft sediment deformation; occasional quartz veins, veinlets, streaks	4700	25	60	4.02/4.7		
				760			746.4' Red sphalerite bleb						
				770			749' Chalcopyrite masses and streaks						
				780			750 - 755' Tuffaceous shale						
				790			759.5 - 761' Silicified fine grained tuff with diffuse bordered quartz streaks and veins						
				800			769' Chalcopyrite masses, streaks						
				810			807 - 814' Andesite porphyry: similar to 709.9 - 743.5'						
							815' Bottom of Hole						