

付 録

Depth (m)	Geol. Col.	TCu □ SCu □			Geologic Discription		Assay (5m average)									
		0.5	1.0	1.5%	Min.	Alt.	Lithology			TCu	SCu	Au	Ag	Fe		
0									Soil and Terrace deposits							
1.7					Mal. frac	silicified			Andesitic cataclasite with aphyric and dark gray - light gray							
25.7						calcpurized			Diolite ? (weakly cataclastic rocks)							
32.0									Sheared Zone(Fault?)							
									Andesitic cataclasite(partly diolite origin) strongly silicified							
50									Sheared Zone(Fault?)							
57.0					Mal. frac	silicified			Andesitic cataclasite(partly aphyric and. origin) with silicified part							
92.0					Cp>Py dis.				Sheared Zone(Fault?)							
100					Mal. frac				Andesitic cataclasite(with tuff fragments) dark gray - brownish gray							
102.2					Mal. frac				Sheared Zone(Fault?)							
					Py>Cp dis.				Andesitic cataclasite(partly aphyric and. origin)							
115.9					Cp>Py dis.				Cataclasite(aphyric and. origin)							
					Cp veinlet											
					Cp>Py dis.											
150					Cp, Py veinlet											
									Sheared Zone(Fault?)							
164.8									Brecciate and. , heterogeneous, dark gray partly with andesitic cataclasite, and tuff breccia							
171.9					Cp veinlet, stockwork											
					Cp, Py veinlet											
200					Py>Cp dis.											
					Cp veinlet											
221.7																

Geologic Column (MJCC- 1: 1,000)

Depth (m)	Geol. Col.	TCu □ SCu □			Geologic Discription			Assay (5m average)						
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe		
0							Non Core							
3.2	▲ ▼				Mal. frac		Aphyric brecciated andesite, partly Brecciated andesite abundant in Mt,Hm and Sp Ore							
23.8	▲ ▼					Weathered & Oxide zone	Fault ? Aphyric andesite with brecciated andesite pale greenish gray color							
42.9	▲ ▼						Fault ? Aphyric brecciated andesite							
50	▲ ▼					cal. Qz veinlet								
64.5	▲ ▼						Brecciated aphyric andesite partly pl phenocryst-rich andesite greenish - brownish gray							
85.0	▲ ▼				Mal. frac	silicified	Brecciated aphyric andesite partly pl phenocryst-rich andesite gray - dark gray color							
100	▲ ▼					silicified	Silicified and brecciated andesite							
103.0	▲ ▼													
111.3	▲ ▼					chloritized	Aphyric andesite, partly brecciated andesite greenish - dark gray							
126.3	▲ ▲				Mt,Py & Sp		Brecciated andesite abundant in Mt,Hm and Sp Ore							
130.7	▲ ▼				Py dis.		Pl-rich porphyritic andesite with brecciated pl-rich andesite dark - brownish gray							
150	▲ ▼				Mal. frac & matrix									
152.0	▲ T						Tuff breccia and Tuff green - dark green color							
164.0	T ▲													
200														

Geologic Column (MICC- 2 1: 1,000)

Depth (m)	Geol. Col.	TCu □ SCu □			Geologic Discription			Assay (5m average)						
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fc		
0	▲ ▲				Mal. frac		Brecciated andesite abundant in Sp, Hm and Mt Ore reddish brown - brownish gray color							
18.7	T ▲						Tuff breccia and lapilli tuff partly Brecciated andesite abundant in Sp, Hm and Mt Ore lithic frg>Ore							
40.2	T ▲						Fault							
50	▲ ▲						Brecciated andesite abundant in Sp, Hm and Mt Ore reddish brown - brownish gray color							
50.7	T ▲				Mal. frac	Oxide zone	Tuff breccia and tuff							
55.0	V ▲						Brecciated andesite(aphyric) with tuff reddish brown - brownish gray color							
66.3	V ▲						Pl-rich porphyritic andesite(massive) dark gray - greenish gray color							
83.6	V ▲						Fault							
92.5	V ▲				Mal. dis & frac		Brecciated andesite(aphyric)							
100	V ▲						Aphyric andesite(massive) gray - brownish gray							
110.1	V ▲						Brecciated andesite(aphyric)							
118.7	V ▲						Doleritic andesite(massive)							
126.0	V ▲				Py & Cp in amyg Sp,Py >Cp frac & veinlet Py >Cp dis Py >Cp,Mt dis	chloritized	Pl-rich porphyritic andesite(massive) with amygdal tex.							
150	V ▲													
156.3	V ▲													
161.9	V ▲				Py >Cp in amyg		Seared zone(Fault ?)							
169.2	V ▲						Basaltic andesite with amygdal tex., dark gray color							
176.0	V ▲				Py >Cp dis		Pl-rich porphyritic andesite(massive)							
191.35	V ▲													
200														

Geologic Column (MJCC- 4 1:1,000)

Depth (m)	Geol. Col.	TCu □ SCu □			Geologic Discription		Assay (5m average)						
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe	
0	▲				Mal. dis & frac	Oxide zone	Brecciated andesite abundant in Sp, Hm and Mt Ore brownish gray - dark gray color						
	▲				Mal. in amyg & frac								
	▲				Mal. frac								
	▲				Mal. frac								
	▲				Mal. frac								
47.5	▲				Mal. frac								
50	V				Mal. frac		Aphyric andesite and Brecciated andesite brownish gray - reddish brown color						
	V						Brecciated andesite(aphyric)						
61.5	V				Mal. frac		Aphyric andesite and Brecciated andesite						
64.6	▲						Brecciated andesite abundant in Sp,Hm and Sp Ore lithic frg: tuff, amyg.-rich andesite brownish gray - dark gray color						
	▲				Py imp								
	▲												
	▲												
	▲				Py imp								
	▲												
	▲												
	▲												
	▲												
	▲												
100	▲												
	▲												
	▲												
	▲												
	▲												
	▲												
	▲												
	▲												
	▲												
136.0	V						Brecciated andesite						
	Δ						Seared zone(Fault ?)						
	V						Aphyric andesite, gray - greenish gray						
150	V												
156.3	V												
	▲				Cp,Sp,Mt,Py in matrix		Brecciated andesite abundant in Mt,Sp and Ht Ore						
161.9	V				Py >Cp,Mt dis		Aphyric andesite(strong magnetism) greenish gray color						
	V												
	V												
173.0	V				Cp,Py veinlet		Aphyric andesite partly Brecciated iron-rich andesite greenish - brownish gray color						
	▲				Sp, Mt,Cp,Py in matrix								
188.3	▲												
191.15	○				Py >Cp imp		Aphyric andesite with amyg. andesite						
200													

Geologic Column (MJCC- 5 1: 1,000)

Depth (m)	Geol. Col.	TCu SCu			Geologic Description			Assay (5m average)						
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe		
0							Non core							
6.00							Alluvium, soil with Ht rock & Mt rock	0.077	0.011	0.1	< 0.3	25.58		
11.00							And lava, pl porphyritic argillitic alteration, fractured brownish color	0.014	0.001	< 0.1	< 0.3	4.55		
22.00							And lava-tuff breccia, argillitic alteration, fractured	0.028	0.002	< 0.1	< 0.3	6.14		
30.20							And lava aphanitic, massive, propylitic brownish gray-green	0.016	0.001	< 0.1	< 0.3	6.57		
39.80							And Bre & tuff, hydrothermal alteration, fractured	0.029	0.002	< 0.1	< 0.3	7.97		
50						Mal. in frac.	0.098	0.016	< 0.1	< 0.3	7.34			
54.50							"Hydrothermal breccia" & And lava And lava & brecciated And with Ht stockwork-veinlet-dis. partly with open cavity gray-greenish gray with brownish parts	0.502	0.102	< 0.1	< 0.3	8.35		
79.00							And lava, aphanitic, massive altered along fractures partly with Mt stockwork dark gray	0.112	0.021	< 0.1	< 0.3	3.58		
100							altered along fractures with open cavities in fractures gray-brownish gray	0.112	0.032	< 0.1	0.5	9.20		
							altered along fractures with Mt veinlets Py in Mt veinlet Cp dis. in And & Mt veinlet	0.086	0.008	< 0.1	1.0	33.48		
							same as 110m ±	0.051	0.007	< 0.1	< 0.3	29.92		
							same as 120m ±	0.146	0.013	< 0.1	< 0.3	28.76		
							same as 110m ±	0.133	0.013	< 0.1	< 0.3	32.06		
							same as 120m ±	0.152	0.015	< 0.1	< 0.3	20.60		
							at the top, amig filled with Qz. partly altered along fractures Cp veinlet-dis. in amig. and And	0.126	0.016	< 0.1	< 0.3	17.12		
								0.127	0.026	< 0.1	< 0.3	17.24		
								0.198	0.037	< 0.1	< 0.3	17.12		
								0.122	0.027	< 0.1	< 0.3	15.44		
								0.120	0.025	< 0.1	< 0.3	17.30		
								0.132	0.020	< 0.1	< 0.3	17.80		
								0.105	0.020	< 0.1	< 0.3	17.22		
								0.073	0.014	< 0.1	< 0.4	13.66		
								0.129	0.010	< 0.1	< 0.3	15.34		
								0.125	0.016	< 0.1	< 0.4	14.44		
								0.056	0.003	< 0.1	< 0.4	13.68		
								0.043	0.002	< 0.1	< 0.3	12.32		
								0.057	0.003	< 0.1	< 0.3	14.94		
								0.036	0.006	< 0.1	< 0.3	21.52		
150								0.025	0.001	< 0.1	< 0.3	13.18		
(161.35)								0.106	0.010	< 0.1	< 0.3	16.60		
								0.032	<0.001	< 0.1	< 0.3	5.36		

Depth (m)	Geol. Col.	TCu SCu			Min.	Alt.	Geologic Discription	Assay (5m average)				
		0.5	1.0	1.5%				TCu	SCu	Au	Ag	Fe
0						"Hydrothermal breccia" Ht(Spec)stockwork > lithic bre., brownish	0.522	0.368	< 0.1	< 0.3	34.78	
							0.928	0.806	< 0.1	< 0.3	34.12	
						Brecciated & altered And with Ht stockworks, reddish brown-dark gray	0.570	0.433	< 0.1	< 0.3	27.80	
							0.746	0.611	0.1	< 0.5	27.44	
24.00						And lava , massive, aphanitic, greenish gray with Ht-Mt veinlet	1.610	1.547	0.1	< 0.3	36.74	
							1.308	1.220	< 0.1	< 0.3	19.04	
34.00						Brecciated And filled with Ht(Spec), black & reddish brown	0.780	0.635	0.2	< 0.3	32.76	
							0.298	0.219	< 0.1	< 0.3	28.76	
46.00						And lava, massive, aphanitic, with Ht veinlet, gray-reddish brown	0.140	0.024	< 0.1	< 0.3	41.88	
50							0.596	0.390	< 0.1	< 0.3	27.84	
58.50						Brecciated And-And lava, with Ht (Spec) stockwork-veinlet black & reddish brown	0.662	0.499	0.6	< 0.3	36.84	
							0.193	0.092	0.3	< 0.3	32.52	
78.50						And lava, massive, aphanitic, greenish gray	0.085	0.017	0.3	< 0.3	52.24	
							0.179	0.028	< 0.1	< 0.3	34.68	
85.60						Brecciated And filled with Ht(Spec)&Mt black & reddish brown	0.093	0.021	< 0.1	< 0.3	27.42	
							0.746	0.159	< 0.1	< 0.3	25.74	
92.30						And lava, massive, aphanitic, greenish gray	0.316	0.096	< 0.1	< 0.3	17.88	
							0.149	0.068	< 0.1	< 0.4	31.68	
97.00						Brecciated And, pl porphyritic, with Ht veinlet-stockwork greenish gray-black&reddish brown	0.200	0.062	< 0.1	< 0.4	23.18	
100							0.288	0.068	< 0.1	< 0.4	23.82	
107.60						Brecciated And, filled with Ht(Spec) black & reddish brown	0.158	0.030	< 0.1	0.7	29.92	
							0.087	0.026	< 0.1	< 0.3	35.04	
115.08						Brecciated And, with Ht stockworks gray-dark gray	0.022	0.003	< 0.1	< 0.3	36.16	
							0.114	0.008	< 0.1	< 0.4	35.52	
121.30						Brecciated And filled with Ht(Spec) & Mt, black	0.038	0.009	< 0.1	< 0.3	41.16	
							0.662	0.139	0.1	< 0.3	34.64	
127.50						filled with Mt&(Ht), black Cp & Py in Mt&(Ht) stockwork	1.086	0.023	0.2	< 0.3	36.00	
							1.464	0.017	0.3	< 0.3	28.98	
150						Brecciated And filled with Ht(Spec)- with Mt veinlet, black-dark gray	0.986	0.014	0.2	< 0.5	27.98	
							1.072	0.027	0.2	< 0.3	36.98	
157.20						And lava, massive, aphanitic, with amig filled with Qz, Cp&Py	0.720	0.052	0.1	< 0.3	38.36	
							0.175	0.012	< 0.1	< 0.3	23.24	
						massive lava, greenish dark gray	0.135	0.009	< 0.1	0.6	17.56	
							0.310	0.053	< 0.1	< 0.3	17.82	
						with amig. filled with Qz, Cp&Py	0.032	0.003	< 0.1	< 0.3	14.28	
							0.038	0.002	< 0.1	< 0.3	15.10	
						massive lava, dark gray	0.244	0.004	< 0.1	< 0.3	19.78	
							0.075	0.001	< 0.1	< 0.3	13.92	
200	(200.10)						0.057	0.001	< 0.1	< 0.3	12.24	
							0.129	0.002	< 0.1	< 0.3	12.20	

Depth (m)	Geol. Col.	TCu SCu			Geologic Discription			Assay (5m average)				
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe
0							Non core	0.840	0.460	0.6	0.6	32.27
3.35	▲▲▲▲					Weathered zone	"Hydrothermal Breccia", dark brownish gray	0.505	0.313	< 0.1	< 0.3	33.44
7.76	TTTT				dls mal, cusulfate	Oxidated zone	Tuff, (?) reddish gray-brown	0.398	0.148	< 0.1	1.2	28.54
13.50	▽▽▽▽				mal, dls mal in crack		Aphanitic Andesite, partly with pl pheno	0.306	0.091	< 0.1	< 0.3	23.14
								0.420	0.146	< 0.1	< 0.3	19.62
								0.238	0.053	< 0.1	< 0.3	15.44
								0.138	0.033	< 0.1	0.6	13.36
								0.069	0.003	< 0.1	0.5	13.48
								0.094	0.004	< 0.1	< 0.4	13.28
								0.176	0.037	< 0.1	1.2	14.36
50	▲▲▲▲				Py dis. poor		Tuff / Tuff breccia, partly "Hydrothermal Breccia", gray-brownish gray	0.188	0.031	< 0.1	1.0	14.48
50.60	▲▲▲▲				mal, in crack poor		Pl. Pheno. Porphyritic Andesite with Amygdale	0.102	0.012	< 0.1	0.9	20.64
								0.132	0.018	< 0.1	1.0	22.52
								0.128	0.027	< 0.1	2.0	19.26
								0.142	0.021	< 0.1	1.1	24.28
								0.252	0.072	< 0.1	1.1	23.44
78.15	▽▽▽▽					strongly crushed	Aphanitic Andesite, brownish gray	0.212	0.069	< 0.1	< 0.3	17.48
85.30	▽▽▽▽						Pl. Pheno. Andesite	0.194	0.059	< 0.1	0.8	23.24
								0.132	0.052	< 0.1	< 0.4	11.68
								0.178	0.060	< 0.1	1.2	12.24
100	▽▽▽▽							0.190	0.070	< 0.1	0.9	9.92
								0.067	0.019	< 0.1	0.7	12.34
111.50	▲▲▲▲				Py in crack		Aphanitic And.	0.084	0.015	< 0.1	0.6	22.86
								0.034	0.007	< 0.1	0.6	26.68
								0.047	0.004	< 0.1	< 0.4	19.10
128.00	▽▽▽▽						Porphyritic Andesite, with pl. phenocryst	0.051	0.007	< 0.1	< 0.3	15.36
								0.060	0.005	< 0.1	< 0.5	14.40
137.00	▽▽▽▽						Fault Breccia Zone	0.063	0.005	< 0.1	< 0.3	13.42
144.40	▲▲▲▲						Aphanitic Andesite-Andesite Breccia	0.059	0.007	< 0.1	< 0.4	13.78
150	▽▽▽▽						Pl. pheno. Andesite gray-blueish gray	0.096	0.018	< 0.1	0.8	12.30
								0.053	0.005	< 0.1	< 0.3	10.68
								0.034	0.006	< 0.1	< 0.3	10.94
								0.048	0.010	< 0.1	< 0.3	12.12
168.00	▽▽▽▽						168.00 Fault (?)	0.036	0.023	< 0.1	< 0.5	15.68
					Cp dis in Amyg, rock		Aphanitic Andesite associated with Amygdale Andesite, gray-greenish gray.	0.112	0.025	< 0.1	0.5	16.38
								0.122	0.017	< 0.1	< 0.3	26.82
								0.095	0.017	< 0.1	< 0.3	26.40
					Cp dis in rock		Pl. pheno+Amyg porphyritic Andesite Gray	0.083	0.012	< 0.1	< 0.3	22.22
(190.20)								0.061	0.001	< 0.1	< 0.5	14.80

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		0.5	1.0	1.5%	Min.	Alt.	Lithology			TCu	SCu	Au	Ag	Fe					
0	△ ▽																		
5.9	▽ ▽																		
16.0	V V V																		
25.4	▲ ▲																		
30.1	▲ ▲																		
50	▲ ▲																		
100	▲ ▲																		
125.5	▲ ▲																		
136.0	▲ ▲																		
147.5	▲ ▲																		
150	▲ ▲																		
156.3	▲ ▲																		
161.8	▲ ▲																		
170.0	▲ ▲																		
178.6	▲ ▲																		
185.0	▲ ▲																		
195.0	▲ ▲																		
200	▲ ▲																		
206.0	▲ ▲																		
211.0	▲ ▲																		
215.1	▲ ▲																		

Depth (m)	Geol. Col.	TCu SCu			Geologic Description		Assay (5m average)					
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe
0	▲▲▲▲				1.0-9.50 Mal in crack		Andesite Breccia	0.582	0.352	0.1	< 0.3	21.02
	▲▲▲▲						"Hydrothermal Breccia"	0.584	0.429	< 0.1	< 0.3	27.56
	▲▲▲▲							0.188	0.109	< 0.1	< 0.4	25.18
	▲▲▲▲					Oxidized zone weakly		0.626	0.472	< 0.1	0.6	29.96
20.10	▲▲▲▲				16.10-20.00 Mal in crack		Andesite Breccia, partly	1.062	0.124	0.1	0.5	40.00
	▲▲▲▲						"Hydrothermal Breccia"	0.834	0.678	< 0.1	< 0.3	30.08
	▲▲▲▲							0.514	0.437	< 0.1	< 0.3	23.16
	▲▲▲▲							1.768	1.626	0.4	1.6	36.28
	▲▲▲▲							0.594	0.478	0.1	< 0.4	36.80
48.50	▲▲▲▲							0.748	0.218	0.1	< 0.3	38.06
50	▲▲▲▲						"Hydrothermal Breccia"	0.370	0.016	< 0.1	< 0.3	36.00
	▲▲▲▲						Dark gray ~Dark Brownish Gray	0.660	0.031	< 0.1	< 0.3	44.80
	▲▲▲▲							0.424	0.014	< 0.1	< 0.3	30.80
	▲▲▲▲						Lithic Fragment ; Amigdale And Aphanitic And Pl.pheno. And mixed. ϕ 1~30"	0.882	0.030	0.1	< 0.3	28.14
	▲▲▲▲					Cp > Py ds		1.070	0.034	0.2	< 0.5	41.28
	▲▲▲▲							0.870	0.027	0.2	0.9	35.76
	▲▲▲▲					Compact Spec, HT, Mt >> Py > Cp		0.654	0.023	0.1	< 0.3	37.44
	▲▲▲▲						Cp > Py in Amigdale	0.812	0.051	< 0.1	< 0.3	45.04
	▲▲▲▲							0.636	0.043	< 0.1	< 0.3	23.48
100	▲▲▲▲					Cp ds, poor	102.80. Fault Zone	0.452	0.051	< 0.1	< 0.3	36.48
102.80	▲▲▲▲							0.490	0.056	< 0.1	0.8	28.08
	▲▲▲▲					Cp Py in rock Cp Py in Fragment		0.324	0.048	< 0.1	0.8	24.66
	▲▲▲▲							0.162	0.020	< 0.1	< 0.5	32.14
115.60	▲▲▲▲				116-130.00		Aphanitic Andesite (Mg-Type)	0.206	0.042	< 0.1	0.5	32.62
	▲▲▲▲							0.137	0.006	< 0.1	0.6	16.24
	▲▲▲▲						gray-darkgray (Mg-Type)	0.050	0.001	< 0.1	0.7	12.56
	▲▲▲▲					130 Cp Py v let		0.163	0.001	< 0.1	0.6	15.72
	▲▲▲▲					132 < 90 3-5m/m		0.163	0.002	< 0.1	< 0.4	24.76
	▲▲▲▲					135 Py Cp in Amig ds		0.066	0.001	< 0.1	0.5	19.22
	▲▲▲▲						Aphanitic Andesite with Amigdale (Mg-Type)	0.131	0.001	< 0.1	< 0.4	18.88
150	▲▲▲▲					Py Cp in rack		0.135	0.001	< 0.1	< 0.3	19.42
	▲▲▲▲							0.155	0.001	< 0.1	0.6	21.28
	▲▲▲▲					Cp poor in amig dale rack		0.079	0.001	< 0.1	< 0.5	18.80
(160.40)												

Depth (m)	Geol. Col.	TCu SCu			Geologic Description		Assay (5m average)					
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe
0	▲▲▲▲				Spec		"Hydrothermal Breccia", specularite with minor fragment, black reddish brown	0.032	0.002	0.1	< 0.3	43.54
					Py dis			0.033	0.004	0.2	< 0.3	44.16
13.30	▲▲▲▲							0.203	0.020	0.1	< 0.4	32.50
16.60	▲▲▲▲				Py dis		And Lave, Tuff, alternate,	0.047	0.005	< 0.1	0.5	34.60
								0.056	0.010	< 0.1	< 0.4	31.86
	▲▲▲▲				Mal veinlet	oxidized zone	Partly "Hydrothermal Breccia" Texture	0.038	0.008	0.1	0.6	32.16
	▲▲▲▲				Mal in Fracture			0.534	0.428	0.1	< 0.3	33.20
	▲▲▲▲				mal dis			0.282	0.191	< 0.1	0.5	42.92
	▲▲▲▲							0.076	0.014	< 0.1	1.3	33.94
50	▲▲▲▲							0.087	0.021	0.1	1.1	31.34
	▲▲▲▲				Mal in frac			0.148	0.039	< 0.1	0.9	35.08
	▲▲▲▲							0.404	0.245	< 0.1	1.5	34.48
	▲▲▲▲							0.274	0.030	< 0.1	0.7	33.42
65.00	▲▲▲▲							0.062	0.016	< 0.1	< 0.3	27.06
67.40	▲▲▲▲				Py. dis		Andesite breccia with pl. phenocryst, Partly "Hydrothermal Breccia" Texture, And Tuff breccia Greenish gray	0.081	0.003	< 0.1	1.9	25.36
	▲▲▲▲							0.052	0.001	< 0.1	1.8	24.00
	▲▲▲▲							0.018	0.001	< 0.1	1.7	24.18
86.60	▲▲▲▲						Andesite breccia, gray partly amygdale bearing	0.288	0.004	< 0.1	1.3	29.08
	▲▲▲▲							0.058	0.004	< 0.1	1.8	31.48
100	▲▲▲▲				Mt. Cp Py			0.198	0.015	< 0.1	1.7	30.56
	▲▲▲▲							0.140	0.052	< 0.1	1.3	37.30
105.60	▲▲▲▲				Ht >> Mt	Strongly oxidized	Tuff Breccia	0.156	0.063	< 0.1	1.2	21.46
	▲▲▲▲							0.106	0.028	< 0.1	0.7	18.34
115.00	▲▲▲▲					Partly Silicified zone		0.274	0.064	< 0.1	0.5	15.56
	▲▲▲▲							0.258	0.074	< 0.1	< 0.3	15.80
	▲▲▲▲				Mal in crack	Weakly Silicified	Andesite Breccia, gray	0.170	0.018	< 0.1	< 0.3	18.32
	▲▲▲▲							0.113	0.018	< 0.1	< 0.3	19.68
136.60	▲▲▲▲					Oxidized	Tuff-Tuff Breccia reddish brown	0.171	0.067	< 0.1	1.6	22.48
142.10	▲▲▲▲							0.284	0.056	< 0.1	0.9	18.28
150	▲▲▲▲				Spec >> Mt	Oxidized zone	Andesite Breccia, Partly "Hydrothermal Breccia", reddish brown	0.304	0.039	< 0.1	1.0	15.00
	▲▲▲▲				Py >> Cp			0.177	0.034	< 0.1	< 0.4	32.82
156.00	▲▲▲▲							0.182	0.037	< 0.1	< 0.3	26.00
	▲▲▲▲				Cp in Matrix		"Hydrothermal Breccia", dark gray light green Tuff or Andsite	0.622	0.075	< 0.1	1.0	30.12
163.20	▲▲▲▲					Oxidized zone	Tuff, Brown,	0.091	0.023	< 0.1	0.8	26.26
170.35	▲▲▲▲					Oxidized zone		0.140	0.057	< 0.1	1.3	25.44
	▲▲▲▲				Spec.		Andesite Breccia, Aphanitic And partly Tuff Breccia, (177m ±) partly "Hydrothermal Breccia" Texture, (185m ±, 189.5-ENDS)	0.176	0.099	< 0.1	1.9	24.76
	▲▲▲▲				Mt.			0.099	0.031	< 0.1	1.2	25.88
	▲▲▲▲				Mal in calcite crack			0.224	0.076	< 0.1	< 0.4	30.28
190.85	(190.85)							0.085	0.027	< 0.1	< 0.3	11.00

Depth (m)	Geol. Col.	TCu SCu			Geologic Discription			Assay (5m average)				
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe
0							Over burden	0.059	0.014	< 0.1	2.0	7.63
4.70							And strongly altered & fractured, pale greenish gray with white veinlets	0.012	0.002	< 0.1	1.3	2.68
								0.015	0.002	< 0.1	0.9	3.42
								0.016	0.002	< 0.1	0.8	3.74
								0.073	0.013	< 0.1	1.5	4.74
26.00							And, massive, pale greenish gray partly altered & fractured with Qz-Cal veinlets	0.045	0.010	< 0.1	< 0.3	5.00
								0.082	0.019	< 0.1	< 0.3	5.92
								0.426	0.345	< 0.1	< 0.3	6.82
40.50							And, pale greenish gray-olivegreen partly silicified, altered & fractured with white veinlets	0.122	0.059	< 0.1	< 0.3	5.11
								0.085	0.015	< 0.1	< 0.3	5.63
50							Cataclastic mixture	0.096	0.047	< 0.1	< 0.3	3.28
54.10							Aplitic diolite & And, strongly sheared pale yellowish green-greenish gray with pinkish part, shear plane $\angle 20^\circ$ in dip angle Cu sulfate in fracture	0.420	0.298	< 0.1	< 0.3	3.89
								0.270	0.156	< 0.1	< 0.4	6.19
								0.362	0.249	< 0.1	< 0.3	10.44
								0.157	0.069	< 0.1	< 0.4	5.13
							Andesitic tuff, green, partly sheared. Cp dis in tuff & Mt lens	0.242	0.067	< 0.1	< 0.3	5.82
								0.844	0.048	0.2	1.4	11.42
								0.336	0.011	< 0.1	< 0.3	6.95
							Andesitic tuff & Aplitic doilite, pale greenish gray, strongly sheared, shear plane $\angle 20^\circ$ in dip angle, Mal. veinlets, Cp dis. in matrix.	0.218	0.114	< 0.1	< 0.3	5.33
								0.374	0.182	0.1	< 0.5	6.50
100							Mylonitic rock	0.344	0.002	< 0.1	< 0.3	5.35
107.00							Sheared tuff?, pale greenish gray shear plane $\angle 20^\circ$	0.093	0.004	< 0.1	< 0.3	5.79
							Mt. Cp & Py dis. in matrix	0.147	0.001	< 0.1	< 0.3	8.38
								0.672	0.003	0.2	< 0.3	9.84
							Sheared tuff? dark green, pale green & brownish part. Mt. Cp. Py. dis in Matrix	0.724	0.005	< 0.1	0.6	8.28
								0.630	0.016	< 0.1	< 0.4	12.14
							Sheared tuff? grayish green Mt. Cp. & Py dis.-lens in matrix	0.560	0.025	< 0.1	< 0.3	9.89
								0.640	0.003	0.2	< 0.3	10.56
								0.600	0.020	0.1	0.7	19.52
147.10							And lava, pl. porphyritic, dark greenish gray with high angle white veinlets Cp dis. only in Mt-chl veinlet	0.871	0.021	0.2	< 0.3	15.32
150								0.023	0.001	< 0.1	< 0.3	10.36
								0.021	0.001	< 0.1	< 0.3	9.80
								0.024	0.001	< 0.1	< 0.3	13.40
								0.020	0.001	< 0.1	< 0.3	10.72
(169.30)												

Depth (m)	Geol. Col.	TCu SCu			Geologic Description			Assay (5m average)				
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe
0	V V V V V						And massive-hydrothermally brecciated dark gray-reddish brown	0.306	0.125	< 0.1	0.5	21.34
9.75	V V V V V						"Hydrothermal breccia" Brecciated & altered And with Mt.Ht stockworks, dark gray	0.444	0.263	< 0.1	0.8	22.23
	V V V V V				Mal. dis.	III & Mt stock work		1.056	0.844	< 0.1	1.0	23.72
	V V V V V				Mal. = Cry in frac.	White clay in frac.	Breccia filled with Mt. black	0.670	0.436	< 0.1	0.8	23.50
	V V V V V				Mal. = Cry dis. & in frac.	oxidation	Breccia filled with Ht (spec), reddish brown	0.504	0.176	< 0.1	< 0.3	22.90
	V V V V V				Cry > Mal. in frac.	White clay in frac.	Fe Ore, Ht (spec) >> Mt with minor lithic fragment	0.690	0.414	< 0.1	< 0.4	24.81
50	H H H H H				Cry > Mal. in frac.	White clay in frac.	Breccia filled with Mt = Ht, black Brecciated & altered Andnd with Ht-Mt stockworks, black-reddish	0.760	0.444	< 0.1	< 0.4	22.25
62.00	V V V V V				Py >> Cp dis	III & Mt stock work	And, massive-hydrothermally brecciated with Ht-Mt veinlets, greenish dark gray-black	0.734	0.150	< 0.1	0.8	34.10
78.00	V V V V V				Cp > Py dis	Qz-III Veinlet	And lava, massive aphanitic, dark gray with amig. filled with Qz-Cp-Py, black massive aphanitic, dark gray	0.552	0.318	0.1	0.8	39.90
	V V V V V				Py > Cp dis	oxidation		1.152	0.326	0.1	0.8	38.70
100	V V V V V				Cp > Py dis	oxidation		0.584	0.104	< 0.1	0.5	25.36
116.50	V V V V V				Cp > Py in amig.	oxidation	And lava, massive, aphanitic, partly with pl. phenocryst.	0.348	0.092	< 0.1	1.0	22.86
	V V V V V				Cp = Py dis	oxidation	with amig. filled with Qz-Cp-Py black	0.498	0.012	< 0.1	2.1	34.02
	V V V V V				Cp = Py dis	oxidation	massive, dark gray	0.368	0.012	0.2	0.6	26.58
150	V V V V V				Cp = Py dis	oxidation	with amig & pore, black	0.450	0.015	0.2	< 0.3	25.44
168.20	V V V V V				Py > Cp dis	oxidation	massive, dark gray	0.190	0.025	< 0.1	< 0.3	18.48
	V V V V V				Py >> Cp dis	oxidation	massive, with Mt-veinlet, dark gray	0.062	0.001	< 0.1	< 0.3	12.82
200	V V V V V				Py >> Cp dis	oxidation	And lava massive, pl. porphyritic, with amig. filled with Qz-Cp-Py black	0.118	0.002	< 0.1	0.7	15.32
216.20	V V V V V				Cp > Py dis	oxidation	massive, dark gray pl(φ ≈ 1 × 3mm)	0.046	0.002	< 0.1	1.0	13.24
(240.00)					Cp > Py dis	oxidation	massive, dark gray	0.053	0.002	< 0.1	0.9	12.88
					Cp > Py dis	oxidation	massive, with Mt-veinlet, dark gray	0.034	0.002	< 0.1	0.7	11.30
					Cp > Py dis	oxidation	And lava, massive, pl porphyritic, dark gray pl. phenocryst is larger than in upper unit	0.056	0.002	< 0.1	< 0.4	12.92
					Cp > Py dis	oxidation		0.024	0.001	< 0.1	< 0.3	13.44
					Cp > Py dis	oxidation		0.125	0.002	< 0.1	0.3	16.82
					Cp > Py dis	oxidation		0.103	0.001	< 0.1	< 0.3	16.80
					Cp > Py dis	oxidation		0.101	0.002	< 0.1	< 0.3	18.90
					Cp > Py dis	oxidation		0.089	0.001	< 0.1	< 0.5	17.96
					Cp > Py dis	oxidation		0.110	0.001	< 0.1	< 0.3	24.04
					Cp > Py dis	oxidation		0.082	0.001	< 0.1	< 0.3	21.86
					Cp > Py dis	oxidation		0.127	0.002	< 0.1	< 0.3	18.26
					Cp > Py dis	oxidation		0.094	0.001	< 0.1	< 0.5	18.50
					Cp > Py dis	oxidation		0.122	0.002	< 0.1	< 0.3	13.48
					Cp > Py dis	oxidation		0.124	0.005	< 0.1	< 0.3	16.24
					Cp > Py dis	oxidation		0.174	0.006	< 0.1	< 0.3	21.82
					Cp > Py dis	oxidation		0.061	0.001	< 0.1	< 0.3	17.64
					Cp > Py dis	oxidation		0.036	0.001	< 0.1	< 0.3	12.42
					Cp > Py dis	oxidation		0.011	0.001	< 0.1	< 0.3	14.60
					Cp > Py dis	oxidation		0.013	0.001	< 0.1	< 0.3	13.02
					Cp > Py dis	oxidation		0.011	0.001	< 0.1	< 0.3	13.78
					Cp > Py dis	oxidation		0.113	0.004	< 0.1	< 0.3	20.34
					Cp > Py dis	oxidation		0.021	0.001	< 0.1	< 0.4	18.36
					Cp > Py dis	oxidation		0.004	0.001	< 0.1	< 0.3	16.90
					Cp > Py dis	oxidation		0.034	0.001	< 0.1	0.5	17.88
					Cp > Py dis	oxidation		0.090	0.003	< 0.1	< 0.3	18.82
					Cp > Py dis	oxidation		0.038	0.002	< 0.1	< 0.3	15.28
					Cp > Py dis	oxidation		0.099	0.001	< 0.1	< 0.3	19.96
					Cp > Py dis	oxidation		0.017	0.001	< 0.1	< 0.3	17.28
					Cp > Py dis	oxidation		0.077	0.002	< 0.1	< 0.3	18.16

Depth (m)	Geol. Col.	TCu SCu			Geologic Description		Assay (5m average)					
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe
0	△△△				Mal. in frac.		Tuff breccia, partly "Hydrothermal breccia" bre: pl porphyritic And, tuff? with traces of leached out Py.	0.320	0.140	< 0.1	< 0.3	19.66
	△△△							0.400	0.088	< 0.1	< 0.3	17.24
	△△△							0.278	0.107	< 0.1	< 0.3	17.80
15.50	T T T						Tuff, partly with Ht veinlet-dis., gray, grading with traces of leached out Py.	0.216	0.100	< 0.1	< 0.3	17.92
24.50	T T T							0.215	0.095	< 0.1	< 0.3	21.34
	△△△						"Hydrothermal breccia" mainly tuff, partly with And. Ht dis. in tuff ~ lap. tuff	0.126	0.030	< 0.1	< 0.3	29.82
	△△△							0.220	0.086	< 0.1	0.5	27.92
	△△△						Tuff with Ht (Spec) Network, reddish brown	0.150	0.056	< 0.1	< 0.3	37.60
	△△△						Ht (Spec) stockwork with lithic frag., lithic frag: And, tuff with traces of leached out Py.	0.108	0.028	< 0.1	< 0.3	26.56
50	△△△				Mal. in frac.		brownish ~ dark gray ~ black Mal. dis. in fractures	0.350	0.205	< 0.1	< 0.3	26.06
	△△△							0.254	0.101	< 0.1	< 0.3	29.60
	△△△							0.250	0.111	< 0.1	< 0.3	24.92
	△△△							0.278	0.072	< 0.1	< 0.3	26.80
	△△△				Mal. in frac.		Brecciated And & tuff with Ht (Spec) veinlet-Network, dark gray with traces of leached out Py.	0.246	0.059	< 0.1	< 0.3	25.50
	△△△							0.236	0.055	< 0.1	< 0.3	22.44
	△△△						Ht (Spec) stockwork with lithic fragment Black spec & reddish, brownish lith. Mal. dis. in fractures	0.146	0.061	< 0.1	< 0.3	34.86
	△△△							0.332	0.178	< 0.1	< 0.3	37.58
	△△△							0.118	0.037	< 0.1	< 0.3	37.88
	△△△				Mal. in frac.		Ht (Spec) ore, black	0.466	0.326	< 0.1	0.8	42.54
100	△△△						Ht (Spec) stockwork with lithic fragment black spec & pale gray-reddish lith	0.182	0.064	< 0.1	0.8	33.84
	△△△							0.114	0.045	< 0.1	0.9	37.40
106.45	△△△						Brecciated And.	0.074	0.005	< 0.1	0.6	25.64
	△△△						And lava, gray-dark gray, aphanitic with amig., partly "Hydrothermal breccia" with amig. filled with Qz & Mt (upper) massive with Mt veinlet, aphanitic (lower) Cp & Py in Qz.	0.230	0.085	< 0.1	0.9	19.70
	△△△							0.298	0.094	< 0.1	< 0.4	15.76
	△△△						brecciated lava, with Mt-Ht veinlet with traces of leached out Py	0.070	0.008	< 0.1	< 0.3	17.26
	△△△							0.035	0.007	< 0.1	< 0.3	19.68
	△△△						massive partly with Mt (+Py) veinlet dark gray	0.115	0.024	< 0.1	< 0.4	18.78
	△△△							0.108	0.012	< 0.1	< 0.4	17.96
	△△△						Cp in Qz-Chl veinlet	0.149	0.016	< 0.1	0.5	14.44
	△△△							0.160	0.029	< 0.1	< 0.4	26.78
150	△△△						And lava, pl porphyritic, dark gray-black auto-brecciated lava & lava with amig. filled with Qz, Py & Cp	0.138	0.012	< 0.1	< 0.4	20.68
	△△△							0.194	0.031	< 0.1	< 0.3	22.08
	△△△						Hyaloclastic tuff, black-greenish gray lava flows (4 units). with amig. filled with Qz, Mt, Cp & Py	0.260	0.021	< 0.1	< 0.3	19.46
	△△△							0.272	0.004	< 0.1	< 0.3	20.68
	△△△							0.121	0.002	< 0.1	< 0.5	16.72
	△△△							0.218	0.003	< 0.1	0.5	24.62
179.60	△△△						And lava, aphanitic, black massive, with amig. at the top, Cp & Py in amig. & And	0.093	0.001	< 0.1	0.6	18.40
	△△△							0.064	0.001	< 0.1	< 0.3	15.28
	△△△						lava with amig. ~ auto-brecciated lava Cp & Py in amig. & And	0.196	0.002	< 0.1	< 0.3	17.90
	△△△							0.078	0.008	< 0.1	< 0.3	12.00
198.30	△△△						And lava, pl porphyritic, massive, dark gray Py dis in And	0.021	0.003	< 0.1	< 0.3	10.26
200	△△△											
(204.90)	△△△											

Depth (m)	Geol. Col.	TCu □ SCu □			Geologic Discription		Assay (5m average)													
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe								
0	V																			
1.25	V																			
	V																			
	T																			
	V																			
	T																			
25.4	V																			
	T																			
	+																			
	+																			
34.0	T																			
	V																			
	T																			
	V																			
50	T																			
	V																			
	T																			
62.0	+																			
67.0	T																			
	V																			
	T																			
84.0	+																			
89.0	V																			
	V																			
	V																			
100	V																			
	V																			
	V																			
	V																			
132.0	+																			
	V																			
	+																			
	V																			
150	+																			
	V																			
	+																			
	V																			
	+																			
167.0	V																			
	V																			
	V																			
192.25	V																			
200	V																			
200.35	V																			

Geologic Column (MJCC- 15 1:1,000)

Depth (m)	Geol. Col.	TCu SCu			Geologic Description			Assay (5m average)				
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe
0						Weathered and Evaporate	Origine is andsite, with Qtz Network partly Silicfide	0.004	<0.001	0.1	< 0.3	1.70
								0.003	<0.001	0.1	< 0.3	1.91
								0.003	<0.001	<0.1	< 0.3	1.14
15.00						Silicified, clay Gypsum	Andsite Lava, greenish gray	0.027	0.004	< 0.1	< 0.4	4.07
								0.008	<0.001	< 0.1	< 0.4	1.81
								0.009	<0.001	< 0.1	< 0.3	2.14
								0.011	0.001	< 0.1	< 0.3	2.11
							Lower part, Andesite/Tuff	0.005	0.001	< 0.1	< 0.3	3.14
								0.026	0.003	< 0.1	< 0.3	5.86
50						argillic	Andsite Tuff, Brownish gray	0.205	0.044	< 0.1	1.0	7.58
					mal in frac	argillic, gyp in frac.	Andesite Lava~Andesite Tuff greenish gray	1.130	0.621	< 0.1	3.0	16.62
					mal in frac			0.688	0.306	< 0.1	1.4	14.00
								0.422	0.200	< 0.1	1.8	15.84
						oxidized		0.456	0.133	0.1	1.8	17.50
								0.292	0.072	< 0.1	1.2	17.60
								0.330	0.090	< 0.1	0.9	15.28
80.71					mal in frac		Andesite Tuff & Brownish gray brown	0.626	0.418	0.2	3.5	15.90
84.30					(Mt)		Mylonitic Andesite with calcite Veinlets Dark greenish gray	0.356	0.129	0.1	0.7	13.18
					mal in frac			0.662	0.194	0.1	1.9	13.86
					Mt Py > Cp (Bor 7)			0.328	0.004	< 0.1	1.5	8.92
100								0.474	0.009	0.2	1.7	13.82
					Cp dis in rock			0.428	0.009	0.2	2.3	12.24
								0.274	0.004	0.2	1.9	10.46
					Mt Cp dis poor > Py		Mylonitic Texture	0.100	0.001	< 0.1	1.9	8.80
								0.386	0.006	< 0.1	2.1	11.60
								0.161	0.006	< 0.1	1.2	11.96
								0.085	0.001	< 0.1	1.3	7.66
								0.183	0.002	< 0.1	1.5	9.82
					1360 Cp veinlet let Cp dis. very poor			0.054	0.001	< 0.1	1.3	11.36
								0.036	0.001	< 0.1	3.5	13.00
150							Mt very common	0.110	0.001	< 0.1	2.0	12.58
					partly Cp dis			0.002	<0.001	< 0.1	1.9	8.60
								0.002	<0.001	< 0.1	1.7	8.64
								0.001	<0.001	< 0.1	0.6	8.80
								0.001	<0.001	< 0.1	< 0.3	10.36
								0.017	0.004	< 0.1	< 0.3	9.28
								0.007	<0.001	< 0.1	< 0.3	11.60
					Cp dis in rock			0.025	<0.001	< 0.1	< 0.3	10.16
								0.020	<0.001	< 0.1	< 0.3	8.88
								0.049	<0.001	< 0.1	< 0.3	12.82
200					Cp veinlet		partly Aphanitic Andesite	0.120	0.002	< 0.1	< 0.4	12.36
					Op veinlet			0.262	0.004	< 0.1	< 0.4	12.74
								0.119	0.002	< 0.1	< 0.5	12.80
(216.75)								0.034	<0.001	< 0.1	< 0.4	4.64

Depth (m)	Geol. Col.	TCu SCu			Geologic Description		Assay (5m average)					
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe
0	T T T						Andesitic tuff : greenish gray, partly with Ht veinlet, showing grading & banding	0.456	0.176	< 0.1	< 0.3	13.54
10.80	T T T						And, aphanitic, partly with Ht (Spec) veinlet, gray mal. in frac. & Ht veinlet	0.346	0.161	< 0.1	< 0.3	20.54
17.00	V V V				Mal. in frac		And lava, breccia & tuff, greenish gray, And is pl porphyritic or aphanitic, Mt dis. is porphyritic.	0.548	0.239	< 0.1	< 0.3	23.94
30.70	V V V				Mal. in frac		And lava, aphanitic, dark gray, Massive, altered along fracture, leached out Py.	0.488	0.274	< 0.1	< 0.4	23.20
50	V V V				Mal & Cry dis-veinlet		Brecciated, with Ht (Spec) network network with traces of leached out Py.	0.318	0.088	< 0.1	< 0.3	19.42
65.40	V V V				Mal. in frac		Massive, with Ht & Mt dis. -veinlet mal. in frac.	0.294	0.053	< 0.1	< 0.4	14.46
100	V V V				Cp film in frac		Auto brecciated lava	0.358	0.161	< 0.1	< 0.3	16.40
130.80	V V V				Mal. in frac		And lava, aphanitic, dark gray Massive, with many pores after passes of fluid, no mineralization.	0.428	0.208	< 0.1	0.8	17.54
150	V V V				Cp dis		Auto brecciated lava. ~ hyaloclastic tuff	0.972	0.822	0.1	1.2	27.80
155.05	V V V				Cp in Qz veinlet		Massive, with amig., white clay veinlet	0.986	0.451	0.1	0.6	24.94
(160.05)	V V V				Py >> Cp in Qz		And lava, pl porphyritic, dark gray ~ black several thin lava flows with amig. at the top & bottom parts of each flows.	0.704	0.414	< 0.1	< 0.4	17.68
	V V V				Cp >> Py dis		Cp dis. in amig. and Qz-chl veinlet at the bottom, hyaloclastite (< 10°)	0.270	0.099	< 0.1	< 0.3	14.92
	V V V						And lava, aphanitic, with amig. filled with Qz, Mt, & Py	0.254	0.098	< 0.1	0.5	13.64
								0.102	0.018	< 0.1	< 0.3	15.88
								0.025	0.005	< 0.1	< 0.4	12.34
								0.020	0.004	< 0.1	< 0.3	12.18
								0.023	0.004	< 0.1	< 0.4	14.50
								0.038	0.009	< 0.1	< 0.4	13.10
								0.019	0.010	< 0.1	1.3	11.84
								0.004	0.001	< 0.1	1.2	12.42
								0.010	0.002	< 0.1	0.7	9.92
								0.024	0.008	< 0.1	< 0.4	10.06
								0.042	0.022	< 0.1	< 0.3	11.98
								0.007	0.002	< 0.1	< 0.3	10.08
								0.027	0.001	< 0.1	< 0.3	9.44
								0.003	0.001	< 0.1	< 0.3	7.92
								0.012	0.002	< 0.1	< 0.3	11.18
								0.012	0.001	< 0.1	< 0.3	12.34
								0.020	0.003	< 0.1	< 0.3	12.70
								0.011	0.003	< 0.1	< 0.3	15.56
								0.008	0.001	< 0.1	< 0.3	12.40
								0.002	0.001	< 0.1	< 0.4	9.52

Depth (m)	Geol. Col.	TCu SO ₄			Geologic Discription			Assay (5m average)				
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe
0.70	ΔΔΔΔ						Alluvium Ht rock >> Mt rock	0.106	0.024	< 0.1	< 0.3	30.00
8.80	T T T T						And tuff, pale yellowish green	0.005	<0.001	< 0.1	< 0.3	1.95
	V V V V					White clay	And lava, pl porphyritic, argillitic alteration, greenish gray with white veinlets	0.006	0.001	< 0.1	< 0.4	2.06
	V V V V					Qz-Cal veinlet		0.005	<0.001	< 0.1	< 0.3	4.48
	V V V V							0.009	0.002	< 0.1	< 0.3	6.76
35.00	V V V V						altered greenly, without white veinlet gray-greenish gray	0.005	<0.001	< 0.1	< 0.3	3.97
45.00	Q Q Q					vit	Qz, Fd, Cal vein	0.007	0.001	< 0.1	< 0.3	3.42
50.00	V V V V					Qz	And, massive, aphanitic, grayish green	0.002	<0.001	< 0.1	< 0.3	5.64
52.00	D D D D							0.013	0.004	< 0.1	< 0.3	4.60
58.40	D D D D					Network	Diolitic And, Fd porphyritic, massive gray-pale gray	0.003	0.001	< 0.1	< 0.3	8.76
64.50	V I S V I S				(Cp, Chry)	Silicified	And? deformed strongly, greenish gray-dark gray	0.008	0.003	< 0.1	< 0.3	3.78
70.10	V V V V				(Cp, Chry)	Qz	And, aphanitic, massive, dark green	0.022	0.011	< 0.1	< 0.3	5.87
76.00	V V V V						And, pl. porphyritic, massive, dark green	0.050	0.028	< 0.1	1.5	7.24
83.00	V V V V				(Mal)		And, dyke, aphanitic, massive, greenish gray	0.041	0.017	< 0.1	< 0.3	9.38
100.00	V V V V				(Mal)	Qz veinlet	And, pl. porphyritic, deformed	0.064	0.032	< 0.1	0.6	10.16
	V V V V				(Chry)		And, aphanitic, massive, greenish gray partly with Qz veinlet in fracture	0.033	0.013	< 0.1	< 0.5	10.92
	V V V V						(And. pl. porphyritic, dark greenish gray)	0.045	0.019	< 0.1	< 0.3	8.04
	V V V V						with Qz-network { white veinlet pinkish veinlet	0.120	0.059	< 0.1	0.7	9.38
	V V V V					Qz-Fd veinlet	(And, pl. porphyritic, dark greenish gray brecciated fragments filled with aph. And.)	0.045	0.014	< 0.1	0.5	9.46
	V V V V							0.075	0.032	< 0.1	< 0.3	7.13
	V V V V							0.119	0.015	< 0.1	0.8	11.94
	V V V V							0.058	0.016	< 0.1	1.2	9.64
	V V V V							0.072	0.024	< 0.1	0.6	9.64
	V V V V							0.055	0.016	< 0.1	1.8	8.18
	V V V V							0.048	0.011	< 0.1	2.6	9.00
	V V V V							0.026	0.004	< 0.1	1.4	9.42
	V V V V							0.067	0.018	< 0.1	1.1	11.56
	V V V V							0.041	0.008	< 0.1	1.1	9.28
	V V V V							0.096	0.027	< 0.1	1.9	12.16
150.00	V V V V							0.027	0.006	< 0.1	1.7	10.00
154.80	V V V V				(Chry)	Qz-Net	And, Shear fault zone, with Qz-network	0.042	0.012	< 0.1	2.2	10.99
160.70	V V V V					Qz-Fd veinlet	And, aphanitic, massive, greenish gray with Qz-Fd vein & network	0.153	0.037	< 0.1	1.9	10.74
	V V V V							0.062	0.033	< 0.1	1.7	4.85
	V V V V							0.068	0.044	< 0.1	1.6	4.73
	V V V V							0.038	0.018	< 0.1	0.6	4.97
	V V V V							0.043	0.020	< 0.1	0.6	3.01
(184.35)								0.038	0.014	< 0.1	< 0.3	6.90

Depth (m)	Geol. Col.	TCu □ SCu □			Geologic Discription		Assay (5m average)							
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe		
0	V o V o						Pl-rich porphyritic andesite with amygdal tex.							
3.0	T Δ						Tuff breccia and lapilli tuff brownish gray color							
13.8	V V				Mal. frac		Porphyritic andesite , partly brecciated andesite greenish - brownish gray color							
	V Δ				Mal. frac									
	V V													
37.0	V V						Aphyric andesite(massive) with amygdal tex. greenish - brownish gray color							
49.9	V V													
50	T Δ				Mal. frac & veinlet		Tuff and Tuff breccia gray - light gray color							
61.7	T Δ						Fault							
	Δ T													
	Δ T													
82.2	Δ T						Brecciated aphyric andesite							
86.2	V Δ						Brecciated andesite abundant in Mt,Hm and Sp Ore							
89.3	Δ T						Tuff and Tuff breccia gray - light gray color							
100	Δ T													
107.0	Δ T						fine tuff(sandy - coarse tuff)							
112.0	V Δ						Brecciated andesite and aphyric andesite greenish gray color							
124.0	V Δ													
	Δ T				Mal. frac		Tuff and Tuff breccia gray - light gray color							
	T Δ													
	Δ T													
150	Δ T				Mal. frac									
157.0	Δ T													
	V V						Hombrend andesite(massive) dark gray color							
165.1	V V													
200														

Geologic Column (MJCC- 19 1: 1,000)

Depth (m)	Geol. Col.	TCu SCu			Geologic Discription			Assay (5m average)				
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe
0					Mal. dis		And lava & tuff, gray-reddish brown with Ht veinlet, lava is pl. porphyritic	0.736	0.542	< 0.1	< 0.3	27.76
					Mal. dis		And tuff, mid-fine, greenish gray, partly "Hydrothermal breccia" with Ht (Spec) Network	0.412	0.151	< 0.1	< 0.3	20.62
12.20					Mal. frac		And pl. porphyritic, gray-reddish brown strongly fractured	0.450	0.174	< 0.1	< 0.3	16.84
					Mal. frac		And lava, gray-reddish brown strongly fractured	0.708	0.524	< 0.1	< 0.3	31.42
27.40					Mal. frac		And lava, gray-reddish brown strongly fractured	0.414	0.165	< 0.1	< 0.3	24.16
					Mal. frac		And lava, gray-reddish brown strongly fractured	0.488	0.194	< 0.1	< 0.3	21.74
39.30							And lava, gray-reddish brown strongly fractured	0.230	0.028	< 0.1	< 0.4	18.18
							And lava, gray-reddish brown strongly fractured	0.292	0.105	< 0.1	0.5	19.48
49.65							And lava, gray-reddish brown strongly fractured	0.247	0.007	< 0.1	< 0.3	21.40
50							And lava, gray-reddish brown strongly fractured	0.068	0.007	< 0.1	< 0.3	22.34
							And lava, yellowish brown-reddish brown strongly fractured (< 30°)	0.139	0.012	< 0.1	< 0.3	20.82
61.30							And lava, yellowish brown-reddish brown strongly fractured (< 30°)	0.324	0.031	< 0.1	< 0.3	27.72
							"Hydrothermal breccia" And with Ht (Spec) & Mt, dark gray-reddish brown strongly fractured (< 30°-40°)	0.330	0.045	< 0.1	< 0.3	27.12
							"Hydrothermal breccia" And with Ht (Spec) & Mt, dark gray-reddish brown strongly fractured (< 30°-40°)	0.466	0.057	< 0.1	< 0.3	18.40
							"Hydrothermal breccia" And with Ht (Spec) & Mt, dark gray-reddish brown strongly fractured (< 30°-40°)	0.302	0.060	< 0.1	< 0.4	29.36
							"Hydrothermal breccia" And with Ht (Spec) & Mt, dark gray-reddish brown strongly fractured (< 30°-40°)	0.390	0.073	< 0.1	0.6	26.28
							"Hydrothermal breccia" And with Ht (Spec) & Mt, dark gray-reddish brown strongly fractured (< 30°-40°)	0.382	0.084	< 0.1	1.0	32.64
							"Hydrothermal breccia" And with Ht (Spec) & Mt, dark gray-reddish brown strongly fractured (< 30°-40°)	0.390	0.084	< 0.1	0.7	31.78
							"Hydrothermal breccia" And with Ht (Spec) & Mt, dark gray-reddish brown strongly fractured (< 30°-40°)	0.356	0.069	< 0.1	0.9	31.40
100							And, aphanitic, massive, gray with Ht (spec) veinlet-network with	0.452	0.107	< 0.1	0.6	34.10
							And, aphanitic, massive, gray with Ht (spec) veinlet-network with	0.522	0.124	< 0.1	0.7	23.88
							Ht (Spec) stockwork with And. fragments, black (Spec) & yellowish brown (lith), Mal. dis. in fractures.	0.318	0.092	< 0.1	< 0.5	34.64
							Ht (Spec) stockwork with And. fragments, black (Spec) & yellowish brown (lith), Mal. dis. in fractures.	0.300	0.087	< 0.1	0.7	32.72
							Ht (Spec) stockwork with And. fragments, black (Spec) & yellowish brown (lith), Mal. dis. in fractures.	0.392	0.252	0.2	0.6	47.48
124.00							Ht (Spec) stockwork with And. fragments, black (Spec) & yellowish brown (lith), Mal. dis. in fractures.	0.798	0.594	0.1	0.8	30.62
							And lava, aphanitic, Massive, dark gray brownish gray, hydrothermally altered along fractures.	0.140	0.069	< 0.1	< 0.4	13.62
							And lava, aphanitic, Massive, dark gray brownish gray, hydrothermally altered along fractures.	0.060	0.016	< 0.1	< 0.4	13.36
							And lava, aphanitic, Massive, dark gray brownish gray, hydrothermally altered along fractures.	0.194	0.037	< 0.1	< 0.4	15.76
							auto brecciated, dark gray-brownish gray altered along fractures.	0.162	0.032	< 0.1	0.5	15.90
							auto brecciated, dark gray-brownish gray altered along fractures.	0.052	0.011	< 0.1	< 0.3	12.66
150							Massive, dark gray-brownish gray, hydrothermally altered along fractures, Mal. in fractures, Cp dis. in Qz Py dis. in Ht veinlet.	0.042	0.013	< 0.1	< 0.3	11.76
							Massive, dark gray-brownish gray, hydrothermally altered along fractures, Mal. in fractures, Cp dis. in Qz Py dis. in Ht veinlet.	0.164	0.043	< 0.1	< 0.3	12.24
							Massive, dark gray-brownish gray, hydrothermally altered along fractures, Mal. in fractures, Cp dis. in Qz Py dis. in Ht veinlet.	0.180	0.026	< 0.1	< 0.3	13.44
							fractured, brown-brownish gray. auto brecciated lava-hyaloclastic tuff	0.155	0.027	< 0.1	< 0.3	17.36
							fractured, brown-brownish gray. auto brecciated lava-hyaloclastic tuff	0.176	0.020	< 0.1	< 0.4	17.90
172.30							And lava, pl porphyritic, massive, dark gray with brown parts partly with amigs filled with Qz & Py	0.087	0.015	< 0.1	< 0.3	14.52
							And lava, pl porphyritic, massive, dark gray with brown parts partly with amigs filled with Qz & Py	0.102	0.020	< 0.1	< 0.3	15.52
							And lava, pl porphyritic, massive, dark gray with brown parts partly with amigs filled with Qz & Py	0.122	0.040	< 0.1	< 0.2	11.36
(187.65)												

Depth (m)	Geol. Col.	TCu □ SCu □			Geologic Discription			Assay (5m average)						
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe		
0	▼						Basaltic andesite, dark gray							
2.8	▲						Brecciated andesite abundant in Mt,Hm and Sp Ore							
15.5	▼						Aphyric basaltic andesite, brecciated andesite dark - blackish gray							
32.0	▼				Mal. frac		Fault(with fault clay)							
48.8	▼				Mal. dis		Fault Porphyritic andesite, with brecciated andesite dark - brownish gray color							
50	▼				Mal. frac									
88.0	▼				Mal. frac & veinlet		Porphyritic andesite(massive) partly amygdal tex.							
97.6	▼				Mal. frac		Aphyric andesite(massive), partly amygdal tex. browniah - greenish gray							
100	▼													
122.0	▼						Porphyritic andesite(massive) dark - brownish gray							
133.0	▼				Py>Cp veinlet		Aphyric andesite(massive), partly amygdal tex. browniah - greenish gray							
150	▼				Py>Cp dis & frac		Basaltic andesite dike?, blackish gray color							
152.1	▼				Cp veinlet		Brecciated aphyric andesite and aphyric andesite (massive)							
152.6	▼													
162.1	▼				Mal. frac		Pl-rich porphyritic andesite, partly amygdal tex. and very strong magnetism dark gray color							
182.2	▼				Cp, Py veinlet		Basaltic andesite, partly brecciated andesite and amygdal tex. dark - brownish gray color							
197.1	▼				Cp, Py veinlet									
200	▼				Mal. frac		Porphyritic andesite, partly amygdal tex. and very strong magnetism dark gray color							
246.9	▼				Py,Cp frac & dis									
250	▼						Basaltic andesite(massive), blackish gray color							

Cerro Negro. Chile

Drill# MJCC- 21

(Scale 1/ 1000) (2/ 2)

(Depth : 250.00 m -300.00 m)

Depth (m)	Geol. Col.	TCu □ SCu □			Geologic Discription			Assay (5m average)							
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe			
250	∇ ∇				Py,Cp dis & frac		Basaltic andesite, dark gray, strong magnetism								
259.6	∇ ∇ ∇				Cp veinlet & frac		Pl-rich porphyritic andesite dark - pinkish gray color								
	∇ ∇ ∇				Cp,Py dis & frac										
	∇ ∇ ∇				Py>Cp dis veinlet & frac										
	∇ ∇ ∇														
300	∇ ∇ ∇														
350															
400															
450															
500															

Geologic Column (MJCC- 21 1: 1,000)

Depth (m)	Geol. Col.	TCu <input type="checkbox"/> SCu <input type="checkbox"/>			Geologic Discription			Assay (5m average)								
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe				
0	V V					Weathered zone	Hornblend andesite, partly brecciated and abundant in pl phenocryst dark gray color									
	V V															
	V V															
	V V															
20.0	V V					Weathered zone	Aphyric andesite, dark - brownish gray Hornblend andesite, partly brecciated									
23.5	V V															
27.2	V V															
35.0	V V V					Weathered zone	Aphyric andesite, with amygdal tex. Fault(with fault clay)									
	T T															
	T T															
50	Δ T Δ				Mal. dis & frac			Tuff breccia and fine tuff brownish gray - greenish gray color								
	T T															
	T T															
	Δ T Δ															
73.0	V V					Weathered zone	Basaltic andesite, with andesite fragments									
77.8	V V				Mal. dis & vein with cal			Aphyric andesite, partly brecciated andesite dark - brownish gray color								
	V V															
98.6	V V					chloritized	Aphyric andesite, partly brecciated andesite									
100	V V															
106.0	V V				Mal. dis			Tuff breccia and fine tuff light gray - greenish gray color								
	Δ T								Py dis & frac	Fault						
132.2	V V					Pl-rich porphyritic andesite(massive) dark gray color										
144.6	V V															
150	V V					silicified	Aphyric andesite(massive), partly weatherd									
155.0	V V															
165.0	Δ V															
200																
250																

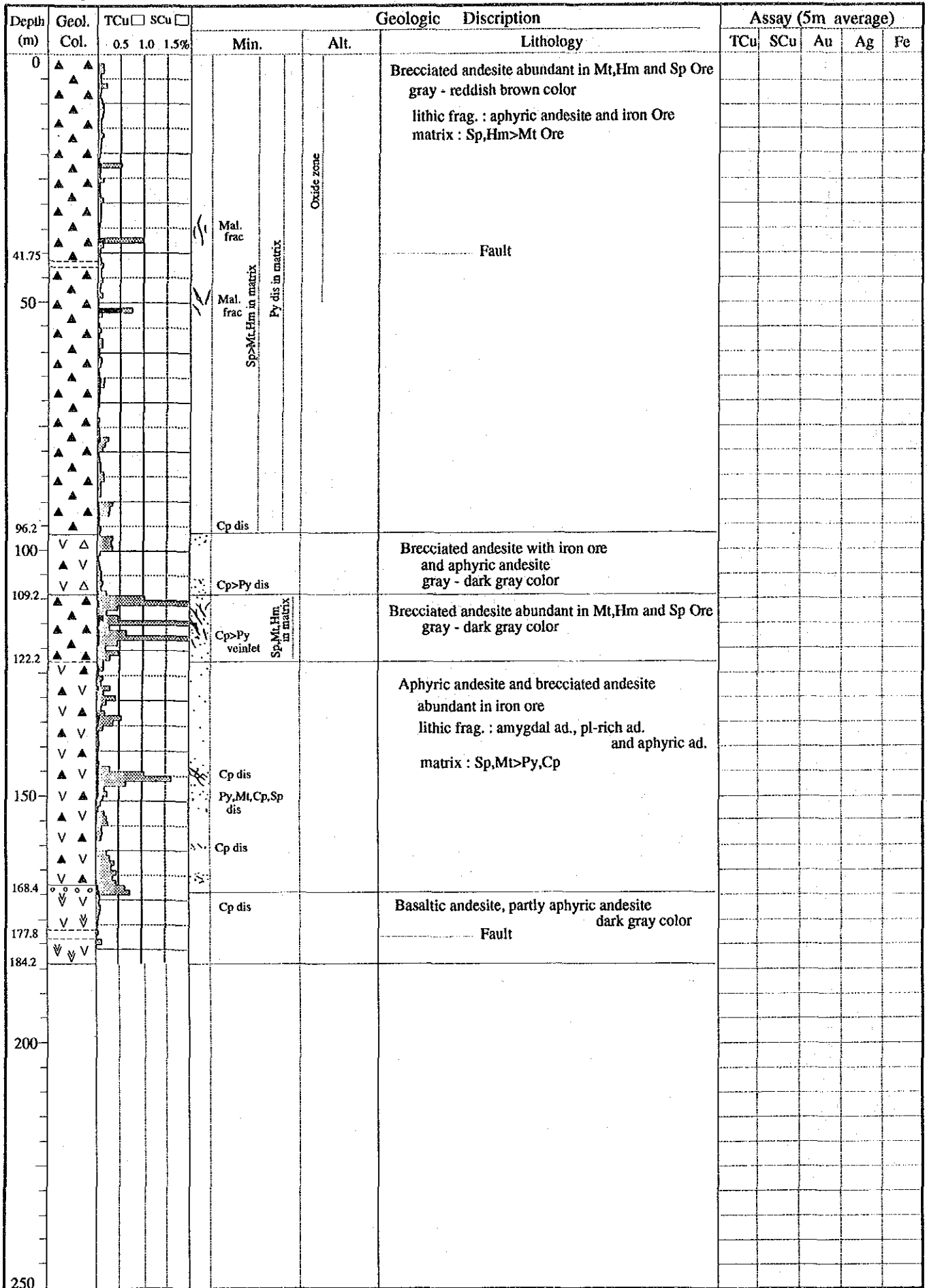
Depth (m)	Geol. Col.	TCu □ SCu □			Geologic Discription		Assay (5m average)									
		0.5	1.0	1.5%	Min.	Alt.	Lithology			TCu	SCu	Au	Ag	Fe		
0	▲▲				Mal. frac	Oxide zone	Brecciated andesite abundant in Mt,Hm and Sp Ore brown - reddish brown color									
36.4	▲▲				Mal. frac Mal. dis & frac Mal. dis		Aphyric andesite with amygdal tex., partly brecciated andesite abundant in Mt,Hm and Sp Ore, gray - dark gray color									
50	▼▼						Aphyric andesite, partly brecciated andesite									
65.3	▼▼						Py,Cp dis									
70.5	▼▼						Pl-rich porphyritic andesite, partly brecciated andesite gray - brownish gray color									
91.9	▼▼						Aphyric andesite, with amygdal tex. Aphyric andesite, partly brecciated andesite									
100	▼▼						Pl-rich porphyritic andesite(massive) with strong magnetism									
106.7	▼▼						Sp,Py & Cp network vein									
131.0	▼▼						Fault									
150	▼▼						Sp,Py veinlet									
187.5	▼▼						Py dis									
192.5	▼▼						Cp>Py dis Sp,Py veinlet									
200	▼▼						Aphyric andesite dike(poor magnetism)									
223.5	▼▼						Pl-rich porphyritic andesite with amygdal tex. and strong magnetism									
250	▼▼						Aphyric andesite(massive), with strong magnetism gray - dark gray color									
	▼▼						Py,Cp,Sp,Mt veinlet									

Geologic Column (MJCC- 24 1: 1,000)

Depth (m)	Geol. Col.	TCu <input type="checkbox"/> SCu <input type="checkbox"/>			Geologic Discription			Assay (5m average)						
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe		
250	V V				Mt, Py, Cp veinlet		Aphyric andesite with amygdal tex., gray - dark gray color							
259.5	V V						Pl-rich porphyritic andesite with amygdal tex. and strong magnetism, dark gray color							
270.6	V V				Cp veinlet		Holocryst. porphyrite, partly basaltic andesite injected into porphyrite gray - dark gray color							
300	V V				Cp network veinlet		Fault							
302.1	V V				Cp,Py dis Cp,Py veinlet		Pl-rich porphyritic andesite, with amygdal tex.							
329.5	V V						Basaltic andesite, partly brecciated andesite blackish gray color							
344.5	V V				Py,Cp veinlet		Fault							
348.0	V V						Porphyritic andesite							
350	V V						Holocryst. andesite, partly porphyritic andesite dark gray color							
355.5	V V						Pl-rich porphyritic andesite(massive) partly holocryst. tex. and amygdal tex. dark gray color							
388.3	V V				Cp,Py dis Py>Cp dis									
400														
450														
500														

Geologic Column (MJCC- 24 1:1,000)

Depth (m)	Geol. Col.	TCu □ SCu □			Geologic Discription		Assay (5m average)										
		0.5	1.0	1.5%	Min.	Alt.	Lithology			TCu	SCu	Au	Ag	Fe			
0	▲				Mal. frac	Oxide zone	Brecciated andesite abundant in Mt,Hm and Sp Ore greenish gray - black color lithic frag. : aphyric andesite,tuff and iron Ore matrix : Sp,Hm>Mt Ore										
	▲				Chry. film												
	▲				Mal. frac												
48.8 50	○				Mal. frac	weathered zone	Aphyric andesite(massive), with brecciated andesite abundant in iron Ore and amygdal tex. gray - brownish gray color										
	○																
70.0	○				Sp,Mt,Hm vein		Aphyric andesite, with amygdal tex. and brecciated andesite abundant in iron Ore										
77.8	○				Sp,Mt,Py veinlet		Aphyric andesite(massive) gray - dark gray color										
100	○																
106.0	○				Py,Cp in amyg.		Pl-rich porphyritic andesite(massive) partly amygdal tex. brownish gray color										
113.2	○				Py,Cp in amyg.		Pl-rich porphyritic andesite(massive) partly amygdal tex. dark gray color										
125.6	○						Fault										
	○						Aphyric andesite, partly brecciated andesite abundant in Mt,Hm and Sp Ore brownish gray color										
150	○																
156.1	▲				Sp,Py,Mt vein												
158.6	○				Sp,Mt veinlet		Aphyric andesite, with amygdal tex.										
	○				Py>Cp,Sp dis		Pl-rich porphyritic andesite with amygdal tex. and strong magnetism dark gray color										
182.0	○																
	○				Py>Cp dis		Porphyritic andesite, with amygdal tex., partly brecciated andesite										
191.0	○																
200	○						Basaltic andesite, partly brecciated andesite with strong magnetism dark gray color										
	○				Py>Cp dis												
213.0	○						Pl-rich porphyritic andesite, partly brecciated andesite										
218.0	○						Fault										
	○						dark gray color										
225.5	○																
250																	



Geologic Column (MJCC-26 1:1,000)

Depth (m)	Geol. Col.	TCu □ SCu □			Min.	Alt.	Geologic Discription	Assay (5m average)				
		0.5	1.0	1.5%				TCu	SCu	Au	Ag	Fe
0	T T						Tuff, banding str., gray color					
4.0	V V					weathered	Aphyric andesite, dark - brownish color					
11.0	V V						Tuff breccia, partly brecciated and iron ore					
17.0	T Δ T				Chry. veinlet		Brecciated andesite, partly iron ore-rich greenish gray color					
28.0	Δ V Δ				Chry. veinlet		Brecciated andesite abundant in Sp,Mt and Hm Ore greenish gray color lithic frag. : holocryst. andesite, aphyric andesite and tuff matrix : Sp>Hm,Py>Mt>Cp					
	Δ V Δ				Mal. frac	Oxide zone						
	Δ V Δ				Mal. frac							
	Δ V Δ				Mal. frac							
50	Δ V Δ											
100	Δ V Δ											
120.0	Δ V Δ				Chry. dis	Oxide zone	reddish brown- brownish gray color lithic frag. : holocryst. andesite, aphyric andesite and tuff matrix : Sp>Hm,Py>Mt>Cp					
141.7	Δ V Δ											
150	Δ V Δ				Cp dis		gray - dark gray color lithic frag. : aphyric andesite matrix : Sp,Hm and Mt Ore					
	Δ V Δ				Cp,Qz in amyg. Py,Cp dis							
200	Δ V Δ				Mt>Sp>Py,Cp dis							
	Δ V Δ				Py>Cp dis							
	Δ V Δ				Py>Cp,Sp,Mt dis							
240.7	V Δ V				Sp,Cp,Py,Mt veinlet	chloritized	Pl-rich porphyritic andesite dike,partly brecciated					
245.5	Δ V Δ											
250	Δ V Δ				Py,Cp dis		Brecciated andesite, partly iron ore-rich					

Geologic Column (MJCC- 27 : 1: 1,000)

Depth (m)	Geol. Col.	TCu □ SCu □			Geologic Discription			Assay (5m average)						
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe		
250	▲ ▲				Py>Cp dis		Brecciated andesite abundant in Mt,Hm and Sp Ore							
253.2	▼ ▼ ▼					chloritized	Sheared porphyritic andesite							
264.7	▼ ▼ ▼				Cp veinlet		Basaltic andesite, partly brecciated dark - blackish gray color							
281.6	▼ ▼ ▼				Cp in amyg.	Qz, Cal, Epi network	Pl-rich porphyritic andesite, with amygdal tex. dark - blackish gray color							
	○ ○ ○				Cp(Py) veinlet									
300	▼ ▼ ▼													
310.0	▼ ▼ ▼				Cp veinlet									
	▼ ▼ ▼				Py dis		Holocryst. andesite - porphyritic andesite, partly brecciated andesite dark - blackish gray color							
333.7	▼ ▼ ▼													
350	▼ ▼ ▼				Cp dis	Qz, Cal, Epi network	Fault Aphyric andesite, partly silicified and brecciated gray - dark gray color							
	▼ ▼ ▼					silicified								
360.8	▼ ▼ ▼				Chry. dis									
382.8	▼ ▼ ▼				Py>Cp dis		Pl-rich porphyritic andesite(massive) dark gray - blackish gray color							
400	▼ ▼ ▼													
403.0	▼ ▼ ▼						Aphyric andesite dike, gray color							
406.1	○ ○ ○						Pl-rich porphyritic andesite, with amygdal tex. dark gray - blackish gray color							
	▼ ▼ ▼				Cp>Py dis									
450	▼ ▼ ▼						Fault							
452.4	▼ ▼ ▼						Basaltic andesite(massive) with strong magnetism dark - blackish gray color							
	▼ ▼ ▼				Sp,Py,Qz vein									
493.3	▼ ▼ ▼				Py,Cp dis		Fault							
500	▲ ▲				Sp,Py>Cp veinlet		Basaltic andesite, partly brecciated andesite							

Geologic Column (MJCC-27 1:1,000)

Cerro Negro, Chile

Drill# MJCC- 28

(Scale 1/ 1000) (1/ 1)

(Depth : 0.00 m -198.90 m)

Depth (m)	Geol. Col.	TCu □ SCu □					Geologic Description	Assay (5m average)						
		0.5	1.0	1.5%	Min.	Alt.		TCu	SCu	Au	Ag	Fe		
0	▲▲▲▲▲						Oxide zone	Brecciated andesite abundant in Mt,Hm and Sp Ore gray - dark gray color lithic frag. : pl-rich porphyritic andesite, aphyric andesite and tuff matrix : Sp,Hm and Mt Ore						
19.0	▲▲▲▲▲							Brecciated andesite abundant in Mt,Hm and Sp Ore gray - dark gray color lithic frag. : holocryst. andesite, aphyric andesite and tuff matrix : Sp,Hm and Mt Ore						
50	▲▲▲▲▲					Mal. frac	Oxide zone	Brecciated andesite, partly iron ore-rich, dark gray brownish gray color black color						
52.0	▲▲▲▲▲													
58.0	▲▲▲▲▲													
65.5	▲▲▲▲▲													
69.2	▲▲▲▲▲					Mal. dis & frac	Oxide zone	Brecciated andesite, partly iron ore-rich reddish brown- brownish gray color lithic frag. : aphyric andesite, matrix : Sp,Hm and Mt Ore						
89.0	▲▲▲▲▲					Mal. dis								
	▲▲▲▲▲					Mal. frac								
	▲▲▲▲▲					Py>Cp dis		Brecciated andesite, partly iron ore-rich reddish brown- brownish gray color lithic frag. : holocryst. andesite, aphyric andesite and tuff matrix : Sp>Hm,Py>Mt>Cp						
100	▲▲▲▲▲					Py,Cp dis								
132.5	▲▲▲▲▲					Cp,Py dis								
	▲▲▲▲▲					Cp,Qz dis & veinlet		greenish gray color lithic frag. : aphyric andesite, amygdal. andesite and tuff matrix : lithic materials & Sp,Hm and Mt Ore						
150	▲▲▲▲▲					Cp dis								
166.3	▲▲▲▲▲					Cp,Qz in amyg.	gray - dark gray color lithic frag. : aphyric andesite matrix : Sp,Hm and Mt Ore							
180.45	▲▲▲▲▲						Fault							
	▲▲▲▲▲					Py,Mt,Cp,Hm dis	Brecciated andesite, partly iron ore-rich lithic frag. : aphyric and amyg. andesite matrix : Mt,Hm and Py-Cp							
195.4	▲▲▲▲▲							Basaltic andesite with strong magnetism, dark gray						
198.9	▲▲▲▲▲				Mt>Sp>Py,Cp dis									
200	▲▲▲▲▲													
250														

Geologic Column (MJCC- 28 : 1: 1,000)

Depth (m)	Geol. Col.	TCu □ SCu □			Geologic Discription			Assay (5m average)						
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe		
0	V Δ				Mal. frac		Brecciated andesite and aphyric andesite							
6.1	Δ V				Mal. frac	Sp,Hm,Mt veinlet	Brecciated andesite abundant in Sp,Mt and Hm Ore reddish - brownish gray color							
20.5	▲▲▲					Oxide zone	Tuff breccia(mainly coarse tuff & lapilli tuff) gray color							
33.5	T Δ						Fault							
50	Δ V				Mal. dis		Brecciated andesite and aphyric andesite fracture development brownish - dark gray color							
52.3	V Δ				Mal. frac & dis									
62.5	V Δ				Mal. frac		Tuff breccia and tuff gray - greenish gray color							
89.3	▲▲▲				Cv		Brecciated andesite abundant in Sp,Hm and Mt Ore lithic frag. : tuff, aphyric andesite matrix : Sp,Hm and Mt dark - blackish gray color							
100	T Δ				Py,Cp frac & dis		Tuff breccia and laminated fine tuff gray - dark gray color							
112.8	T Δ				Sp,Py>Cp dis									
119.2	T Δ				Mal. dis		Fault							
129.2	V Δ				Cp,Py,Sp veinlet		Aphyric andesite, partly brecciated andesite							
150	V Δ				Sp>Py>Cp dis	chloritized	Tuff breccia and lapilli tuff lithic frag. : mainly porphyrite							
157.6	▲▲▲				Cp>Py Ore bands		Brecciated andesite abundant in iron ore matrix : Sp>Mt>Hm>Py>Cp							
177.6	▲▲▲				Cp dis	Sp,Hm,Mt veinlet	Fault							
186.4	V V				Cp,Py dis		Basaltic andesite, partly brecciated andesite dark - blackish gray color							
193.4	V V				Cp,Qz in amyg. Py,Cp dis									
200	V V				Py>Cp dis		Aphyric andesite(massive) gray - dark gray color							
201.65	V V				Py>Cp dis		Pl-rich porphyritic andesite(massive) gray - dark gray color							
230.0	V V				Mt>Sp>Py,Cp _{dis}		Sheared Zone(breccia and clay)							
250	V V				Py>Cp dis		Aphyric andesite,with amygdal tex.(massive) dark gray color							

Geologic Column (MJCC- 29 1: 1,000)

Depth (m)	Geol. Col.	TCu <input type="checkbox"/> SCu <input type="checkbox"/>			Geologic Discription		Assay (5m average)								
		0.5	1.0	1.5%	Min.	Alt.	Lithology			TCu	SCu	Au	Ag	Fe	
0	▲								Brecciated andesite abundant in Sp,Mt and Hm Ore reddish - brownish gray color						
9.0	▼				Mal. frac				Aphyric andesite(massive)						
14.5	▼														
▲									Brecciated andesite abundant in Sp,Mt and Hm Ore lithic frag. : tuff, aphyric andesite matrix : Sp,Hm and Mt dark - blackish gray color						
▲					Mal. frac										
▲															
50	▲														
54.0	▲				Mal. frac				Fault						
▲															
▲					Mal. frac										
▲															
▲					Mal. frac										
▲					Mal. frac Cv veinlet										
100	▲														
102.4	○														
▼					Cp dis Cp in amyg.				Aphyric andesite and pl-rich andesite, with amygdal tex.						
▼															
▼															
119.8	▼								Fault						
124.0	△														
▼					Cp,Py dis				Brecciated andesite and aphyric andesite						
131.5	▼								Fault						
▼															
▼									Basaltic andesite(massive) dark - blackish gray color						
150	▼														
151.8	▼								Sheared Zone						
155.0	○														
▼					Cp,Py dis				Aphyric andesite, with amygdal tex. dark gray color						
167.7	▼								Fault						
▼					Py,Cp dis										
▼					Py>Cp dis				Aphyric andesite and brecciated andesite, with amygdal tex. gray - dark gray color						
▼															
▼					Py>Cp dis in amyg.										
198.0	○														
200	▼								Basaltic andesite(massive) dark - blackish gray color						
207.0	▼														
▼					Py>Cp dis				Pl-rich porphyritic andesite(massive)						
212.9	△														
▼															
▼					Py>Cp dis in amyg.				Aphyric andesite,partly brecciated andesite with amygdal tex. dark- blackish gray color						
242.4	▼														
247.4	△														
250	△								Aphyric andesite and brecciated andesite Pl-rich porphyritic andesite(massive)						

Geologic Column (MJCC- 30 1: 1,000)

Depth (m)	Geol. Col.	TCu <input type="checkbox"/> SCu <input type="checkbox"/>			Geologic Discription			Assay (5m average)						
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe		
250	∇ Δ ∇						Pl-rich porphyritic andesite, partly brecciated							
254.0	∇ ∇ ∇ ∇ ∇ ∇ ∇ ∇ ∇				/		Aphyric andesite, partly pl-rich andesite and amygdal andesite dark gray color							
277.1	∇ ∇ ∇ ∇ ∇ ∇ ∇ ∇ ∇				/		Cp,Py veinlet							
298.0	∇ ∇ ∇ ∇ ∇ ∇ ∇ ∇ ∇ ∇ ∇ ∇				.		Py,Cp dis							
300														
350														
400														
450														
500														

Geologic Column (MJCC- 30 1: 1,000)

Depth (m)	Geol. Col.	TCu <input type="checkbox"/> SCu <input type="checkbox"/>			Geologic Discription			Assay (5m average)														
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe										
0																						
3.85	△						Non Core															
6.0	△						Brecciated andesite and aphyric andesite															
	△						Brecciated andesite with aphyritic andesite blocks greenish - light gray color															
	△						Aphy. frac Mt.Sp,Hm vein chloritized hydrothermal alt. zone															
50	△																					
51.8	△							Mal. frac														
	△																					
66.1	△							Mal. frac Mt.Sp vein														
	△																					
80.0	△							Mal. frac Mt.Sp vein Qz veinlet														
	△																					
100	△							Chry. veinlet														
109.2	△																					
118.0	△						Py>Cp dis & frac Qz veinlet															
125.0	△						Py>Cp dis & frac chloritized															
142.5	△																					
147.5	△																					
150	△						Py>Cp dis & frac Qz veinlet															
160.0	△																					
200																						
250																						

Depth (m)	Geol. Col.	TCu <input type="checkbox"/> SCu <input type="checkbox"/>			Geologic Discription			Assay (5m average)														
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe										
0	T T																					
11.0	T T T T T Δ ▲ T T Δ ▲ T T Δ					Hm>Mt vein	hydrothermal alt. zone	Oxide zone	Coarse tuff and lapilli tuff(massive) brownish gray color													
30.0	T Δ ○ V ○ V ○ V V ○ V								Aphyric andesite with amygdal tex. dark gray color													
40.0	V Δ ○ V ○ V ○ V V ○ V					Hm>Mt vein	hydrothermal alt. zone		Aphyric andesite and brecciated andesite with iron ore and amygdal tex. dark gray - brownish gray color													
50	○ V ○ V ○ V V ○ V V ○ V								Aphyric andesite and brecciated andesite dark gray color													
57.0	V Δ V Δ V Δ								Aphyric andesite(massive) partly pl-rich porphyritic andesite greenish gray color													
68.0	V V V V V V V V V V								Aphyric andesite and brecciated andesite dark gray color													
91.0	V V V V V V V V V V V V								Aphyric andesite and brecciated andesite dark gray color													
100	Δ V V Δ V Δ V Δ								Brecciated andesite, partly amygdal tex. -rich lithic frag. : mainly aphyric andesite matrix : fine grained tuff or andesite frag. dark greenish gray - blackish gray color													
111.0	Δ Δ ○ V ○ V ○ V V ○ V V ○ V V ○ V					Py-Cp imp Hm,Mt,Sp veinlet	hydrothermal alt. zone		Aphyric andesite(massive), with amygdal tex. dark gray color													
148.9	Δ Δ V V V V																					
150	V V V V																					
160.0	V V																					
200																						
250																						

Geologic Column (MJCC- 32 1:1,000)

Depth (m)	Geol. Col.	TCu □ SCu □			Min.		Alt.		Geologic Discription	Assay (5m average)				
		0.5	1.0	1.5%						Lithology	TCu	SCu	Au	Ag
0	▲ ▲								Brecciated andesite with iron ore lithic frag.: aphyric andesite matrix : Mt,Hm and Sp Ore dark gray color					
17.0	▲ ▲								Brecciated andesite abundant in Sp,Hm and Mt Ore lithic frag.: amygdal andesite matrix : Sp,Hm and Mt Ore dark - blackish gray color					
50	▲ ▲													
52.0	▼ ▼								Amygdal & pl-rich andesite(massive) dark gray color					
61.5	▼ ▼								Pi-rich porphyritic andesite gray - greenish gray color					
75.0	▼ ▼								Aphyric andesite(massive)					
77.0	▼ ▼								Amygdal & pl-rich andesite(massive) dark gray color					
86.4	▼ ▼								Aphyric andesite(massive), partly pl-rich porphyritic andesite gray - dark gray color					
99.65	▼ ▼													
100	▲ ▲								Brecciated andesite abundant in Sp,Hm and Mt Ore partly tuff breccia dark - blackish gray color					
118.7	▼ ▼								Amygdal andesite, partly aphyric andesite dark - blackish gray color					
138.5	▲ ▲								Brecciated andesite abundant in Sp,Hm and Mt Ore lithic frag.: aphyric andesite matrix : Sp,Hm > Mt					
150	▲ ▲													
160.0														
200														
250														

Geologic Column (MJCC- 34 1: 1,000)

Depth (m)	Geol. Col.	TCu □ SCu □			Geologic Discription			Assay (5m average)				
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe
0	V ▲				Hm imp		Brecciated andesite with iron ore lithic frag.: aphyric andesite matrix : Mt,Hm and Sp Ore brownish gray - brown color					
17.0	▲ V				Mal. imp		Brecciated andesite and aphyric andersite lithic frag.: aphyric andesite matrix : Mt,Hm and Sp Ore brownish gray - brown color					
29.0	▲ V						Aphyric andesite(massive) dark gray color					
36.5	▲ V				Hm network	Oxide zone	Brecciated andesite and aphyric andesite with iron ore greenish - brownish gray color					
50	▲ V				Calcan. Mal. imp		Aphyric andesite and brecciated andesite with iron ore reddish brown - brownish gray color					
64.8	▲ V					Hydroterm. altered	Brecciated andesite and tuff reddish brown - brownish gray color					
78.5	▲ V				Hm-Mt network vein		Aphyric andesite and brecciated andesite with iron ore reddish brown - brownish gray color					
86.0	▲ V						Pl-rich porphyritic andesite, with amygdal tex. dark - greenish gray color					
100	▲ V											
121.2	▲ V				Mt imp							
145.0	▲ V				Py imp							
150												
200												
250												

Geologic Column (MJCC- 36 1:1,000)

Depth (m)	Geol. Col.	TCu □ SCu □			Geologic Discription			Assay (5m average)						
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe		
0	V V						Aphyric andesite(massive) dark gray color							
6.0	▲ ▲				Chry. frac		Brecciated andesite and aphyric andersite lithic frag.: aphyric andesite matrix : Mt,Hm and Sp Ore brownish gray - brown color							
26.5	▲ ▲				Alt. frac		Brecciated andesite and aphyric andesite with iron ore greenish - brownish gray color							
46.0	▲ ▲					Qz veinlet	Brecciated andesite, partly amygdal andesite greenish gray color							
50	▲ ▲					Chloritized								
59.7	▼ ▼					Qz veinlet	Amygdal andesite(massive) with strong magnetism dark gray color							
88.0	▼ ▼						Aphyric andesite(massive)							
92.2	▼ ▼						Amygdal andesite, partly aphyric andesite with fracture gray - dark gray color							
100	▼ ▼					Qz veinlet								
120.1	▼ ▼						Pl-rich porphyritic andesite, with amygdal tex. dark - greenish gray color							
131.6	▲ ▲				Py>Cp veinlet & dis	Chloritized	Amygdal andesite, partly brecciated andesite greenish gray - dark gray color							
150	▲ ▲				Chry., Mal. frac									
200														
250														

Geologic Column (MJCC- 37 1: 1,000)

Depth (m)	Geol. Col.	TCu □ SCu □			Geologic Discription			Assay (5m average)						
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe		
0	▽ ▲						Brecciated andesite and pl-rich porphyrite, partly tuff reddish brown color							
30.4	▽ ▲						amygdal tex.							
50	▽ ▲				Mal., Act. frac		Brecciated andesite and aphyric andesite, partly iron ore and tuff breccia reddish brown - brownish gray color							
73.0	▽ ▲				Hm>Mt network vein									
85.6	▽ ▲						Brecciated andesite abundant in Hm,Mt and Sp Ore partly pl-rich porphyritic andesite reddish brown color							
91.0	▽ ▲						Aphyric andesite with amygdal tex.							
100	▽ ▲						Aphyric andesite(massive) with pl-rich porphyritic andesite gray -dark gray color							
124.9	▽ ▲				Mt network vein									
130.0	▽ ▲				Py imp									
150							Brecciated andesite and aphyric andesite							
200														
250														

Geologic Column (MJCC- 38 1:1,000)

Depth (m)	Geol. Col.	TCu □ SCu □			Geologic Discription			Assay (5m average)							
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe			
0	Δ						Non Core								
1.25	T Δ						Tuff breccia and brecciated andesite poor magnetism light gray color								
	Δ T Δ														
	Δ T Δ														
	Δ T Δ														
	Δ T Δ														
	Δ T Δ														
	Δ T Δ														
	Δ T Δ														
	Δ T Δ														
	Δ T Δ														
50	Δ T Δ														
55.3	T														
	▲														
	▲														
	▲														
	▲														
	▲														
	▲														
	▲														
	▲														
	▲														
	▲														
	▲														
	▲														
	▲														
97.0	▽														
100	▽ Δ														
	▽ Δ														
106.85	▲														
	▲														
	▲														
116.7	V														
	V														
123.65	V V														
	Δ														
	Δ														
	Δ														
	Δ														
	Δ														
	Δ														
	Δ														
	Δ														
148.65	▽														
150	▽														
	▽														
	▽														
	▽														
	▽														
	▽														
	▽														
	▽														
	▽														
	▽														
171.85	Δ														
176.9	T Δ														
	▽														
	▽														
	▽														
	▽														
	▽														
	▽														
	▽														
195.15															
200															
250															

Geologic Column (MJCC- 39 1: 1,000)
A - 4 3

Depth (m)	Geol. Col.	TCu <input type="checkbox"/> SCu <input type="checkbox"/>			Geologic Discription			Assay (5m average)						
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe		
0	V V V						Aphyric andesite, dark gray color							
4.6	V V V						Brecciated andesite and amygdal andesite, partly aphyric andesite reddish brown - black color							
	V ▲													
	▲ V													
	▲ V													
	▲ V													
	▲ V													
	▲ V													
	▲ V													
	▲ V													
	▲ V													
50	V ▲						Brecciated andesite abundant in Sp,Hm and Mt Ore lithic frag. : amygdal andesite matrix : Sp,Hm and Mt Ore reddish brown color partly aphyric andesite, tuff breccia and amygdal andesite dark gray - blackish gray color							
53.2	▲ V													
	V ▲													
	▲ V													
	▲ V													
	▲ V													
	▲ V													
	▲ V													
	▲ V													
	▲ V													
100	V V						Aphyric andesite, with amygdal tex. dark gray color							
	V V													
	V V													
	V V													
	V V													
	V V													
	V V													
	V V													
	V V													
	V V													
139.6	V V						amygdal andesite, partly tuff and pl-rich porphyritic andesite dark - greenish gray color							
	V V													
	V V													
	V V													
	V V													
	V V													
	V V													
	V V													
	V V													
	V V													
169.5	V V													
	V V													
	V V													
	V V													
	V V													
	V V													
	V V													
	V V													
	V V													
	V V													
190.0	V V													
	V V													
	V V													
	V V													
	V V													
	V V													
	V V													
	V V													
	V V													
	V V													
200	V V													
	V V													
	V V													
	V V													
	V V													
	V V													
	V V													
	V V													
	V V													
	V V													
250	V V													
	V V													
	V V													
	V V													
	V V													
	V V													
	V V													
	V V													
	V V													
	V V													

Geologic Column (MJCC- 40 1: 1,000)

Depth (m)	Geol. Col.	TCu <input type="checkbox"/> SCu <input type="checkbox"/>			Geologic Discription		Assay (5m average)						
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe	
0	▲▲▲						Brecciated andesite abundant in Sp,Hm and Mt Ore lithic frag. : amygdal andesite matrix : Sp,Hm and Mt Ore reddish brown color						
25.0	▲▲▲						Brecciated andesite(aphyric andesite)						
29.0	▲▲▲						Aphyric andesite(massive) partly pl-rich porphyritic andesite dark gray color						
42.0	▲▲▲						Amygdal andesite, partly brecciated andesite and silicified andesite light gray - dark gray color						
50	▲▲▲						Brecciated andesite, partly aphyric andesite gray - dark gray color						
58.2	▲▲▲						Aphyric andesite, partly brecciated andesite dark gray color						
72.9	▲▲▲						Brecciated andesite(homogeneous) light gray -dark gray color						
83.0	▲▲▲						Amygdal andesite, partly brecciated andesite greenish gray - light gray color						
100	▲▲▲						Brecciated andesite(homogeneous) gray - greenish gray color						
102.0	▲▲▲						Brecciated andesite abundant in Sp, Mt and Hm Ore lithic frag.: aphyric andesite matrix : Sp>Hm,Mt Ore dark - blackish gray color						
122.0	▲▲▲						Amygdal andesite(massive) dark gray - blackish gray color						
150	▲▲▲						Aphyric andesite, partly brecciated andesite greenish - dark gray color						
152.0	▲▲▲						Brecciated andesite with amygdal tex. greenish gray - dark gray color						
171.0	▲▲▲						Amygdal andesite, partly aphyric andesite and silicified andesite gray - dark gray color						
186.0	▲▲▲												
200	▲▲▲												
214.6	▲▲▲												
227.2	▲▲▲												
250	▲▲▲												

Geologic Column (MJCC- 41 1: 1,000)

Depth (m)	Geol. Col.	TCu □ SCu □			Geologic Discription			Assay (5m average)													
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe									
0	V Δ																				
	Δ V																				
	V Δ																				
	Δ V																				
	V Δ																				
	Δ V																				
	V Δ																				
30.0	V Δ																				
	V V																				
37.0	V V																				
	V Δ																				
	Δ V																				
	V Δ																				
50	Δ V																				
	V Δ																				
	Δ V																				
	V Δ																				
	Δ V																				
70.0	V Δ																				
	V V																				
76.0	V V																				
	Δ Δ																				
	Δ Δ																				
89.0	Δ Δ																				
	V V																				
	V V																				
100	V Δ																				
	Δ V																				
	V Δ																				
	Δ V																				
	V Δ																				
	Δ V																				
	V Δ																				
	Δ V																				
135.0	V Δ																				
	Δ Δ																				
	Δ Δ																				
150	Δ Δ																				

Geologic Column (MJCC- 42 1: 1,000)
 A - 4 6

Depth (m)	Geol. Col.	TCu □ SCu □			Geologic Discription			Assay (5m average)						
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe		
0	▽						Pl-rich porphyritic andesite(massive), partly fracture abundant gray - dark gray color							
14.5	▽						Lapilli tuff and tuff breccia, with andesite blocks greenish - light gray color							
26.1	△						Tuff and tuff breccia, partly amygdal andesite Magnetite ball in tuff greenish gray - light gray color							
50	△						Brecciated andesite abundant in Mt,Hm and Sp Ore							
70.3	△						Amygdal andesite, pl-rich porphyritic andesite, and brecciated andesite, with iron ore dark gray -greenish gray color							
70.9	△						Laminated fine tuff, gray - greenish gray color							
111.7	△						Brecciated andesite abundant in Mt,Hm and Sp Ore partly amygdal andesite and tuff dark - blackish gray color							
113.2	△						Amygdal andesite(massive) greenish - dark gray color							
125.0	△						Brecciated andesite and amygdal andesite lithic frag.: amygdal - aphyric andesite matrix : Mt,Hm & Sp Ore, Py greenish - blackish gray color							
143.5	△													
150	△													
170.0	△													
200														
250														

Depth (m)	Geol. Col.	TCu □ SCu □			Geologic Discription		Assay (5m average)								
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe			
0							Non Core								
3.05							Talus deposits								
6.95							Pl-rich porphyritic andesite and brecciated andesite with iron ore-rich breccia greenish - dark gray color								
38.55							Aphyric andesite and brecciated andesite, with iron ore-rich breccia greenish gray color								
50															
78.8															
91.4															
100															
107.5															
123.7															
134.1															
150															
159.7															
165.0															
200															
250															

Geologic Column (MJCC- 44 1: 1,000)

Depth (m)	Geol. Col.	TCu □ SCu □			Geologic Discription		Assay (5m average)													
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe								
0	▲ ▼																			
	▲ ▼																			
	▲ ▼																			
	▲ ▼																			
	▲ ▼																			
	▲ ▼																			
46.3	▲ ▼																			
	▲ ▼																			
50	▲ ▼																			
	▲ ▼																			
62.5	▲ ▼																			
	▲ ▼																			
	▲ ▼																			
	▲ ▼																			
88.0	▲ ▼																			
	▲ ▼																			
100	▲ ▼																			
100.4	▲ ▼																			
	▲ ▼																			
	▲ ▼																			
	▲ ▼																			
	▲ ▼																			
140.0	▲ ▼																			
	▲ ▼																			
150																				
200																				
250																				

Geologic Column (MJCC- 45 1: 1,000)

Depth (m)	Geol. Col.	TCu □ SCu □			Geologic Discription		Assay (5m average)									
		0.5	1.0	1.5%	Min.	Alt.	Lithology			TCu	SCu	Au	Ag	Fe		
0	▲ ▲								Brecciated andesite abundant in Hm,Mt and Sp Ore partly aphyric andesite reddish brown - brownish gray color lithic frag.: aphyric andesite,tuff,pl-rich andesite matrix : Hm>Mt>Sp Ore							
50	▲ ▲				Mc.Hm.Sp network Mal. Chry. frac	Alt. Qz network										
72.8	▲ ▲					Cal veinlet chloritized			Brecciated andesite abundant in iron ore, with amygdal andesite blocks dark gray - blackish gray color							
88.7	▼ ▼								Amygdal andesite(massive) dark - blackish gray color							
100	▼ ▼				Py, Cp frac & dis											
107.65	▼ ▼					Qz network			Aphyric andesite(massive), partly amygdal tex. greenish - dark gray color Sheared zone							
140.0	▼ ▼															
150																
200																
250																

Geologic Column (MJCC- 46 1: 1,000)

Depth (m)	Geol. Col.	TCu □ SCu □			Geologic Discription		Assay (5m average)								
		0.5	1.0	1.5%	Min.	Alt.	Lithology			TCu	SCu	Au	Ag	Fe	
0	∇ △						Oxide zone	Brecciated andesite with tuff, aphyric andesite, amygdal andesite and iron ore-rich frag. reddish - brownish gray color							
26.0	T △							Tuff and brecciated andesite reddish brown color							
33.0	∇ △							Aphyric andesite, partly brecciated andesite							
37.4	∇ △							Aphyric andesite(massive), dike?							
42.4	∇ △							Pl-rich porphyritic andesite and brecciated andesite dark - blackish gray color							
50	∇ △							Aphyric andesite and brecciated andesite, with iron ore-rich frag. dark - blackish gray color							
54.0	∇ △							Aphyric andesite and brecciated andesite, with iron ore-rich frag. dark - blackish gray color							
78.0	∇ △							Sheared Zone							
85.0	∇ △							Aphyric andesite and brecciated andesite, with iron ore-rich breccia and tuff frag. dark gray color							
100	∇ △							Fault							
117.8	∇ △							Amygdal andesite and brecciated andesite, partly tuff breccia, dark gray color							
126.5	T △							Tuff and brecciated andesite abundant in iron ore							
130.5	∇ △							Amygdal andesite and brecciated andesite, partly iron ore-rich breccia gray - dark gray color							
146.0	∇ △							Sheared zone							
150	∇ △							Amygdal andesite and brecciate andesite dark - light gray color							
154.5	∇ △							Tuff, tuff breccia and brecciated andesite, partly sheared andesite gray - light gray color							
161.5	T △														
175.0	∇ △														

Geologic Column (MJCC- 47 1: 1,000)

Depth (m)	Geol. Col.	TCu □ SCu □			Min.			Alt.			Lithology	Assay (5m average)				
		0.5	1.0	1.5%								TCu	SCu	Au	Ag	Fe
0											Talus deposits					
2.0	V Δ										Altered andesite or dacite, white color					
5.6	Δ V										Brecciated andesite(aphyric andesite) , gray color					
10.2	Δ V										Strong altered andesite(brecciated) greenish gray - white color alt.. mineral: Kaolinite, Gypsum					
21.0	V Δ											Brecciated andesite and aphyric andesite, partly pi-rich porphyritic andesite greenish - dark gray color alt.. mineral: Kaolinite, Gypsum				
	V Δ										Cal network silicified					
	V Δ															
	V Δ															
	V Δ															
	V Δ															
	V Δ															
	V Δ															
	V Δ															
	V Δ															
	V Δ															
	V Δ															
	V Δ															
50	V Δ															
93.5	V Δ											Aphyric andesite(massive) dark gray color				
100	V Δ										Brecciated andesite abundant in iron ore, partly aphyric andesite and cataclasis dark - blackish gray color					
104.2	▲ ▲															
	V ▲															
	V ▲															
	V ▲															
	V ▲															
	V ▲															
	V ▲															
150	V ▲															
153.8	V V										Brecciated andesite and aphyric andesite					
159.6	V Δ										Aphyric andesite(massive), dark gray color					
165.0	V V															
200																
250																

Geologic Column (MJCC- 48 1:1,000)

Cerro Negro, Chile

Drill# MJCC- 49

(Scale 1/1000) (1/1)

(Depth : 0.00 m - 90.00m)

Depth (m)	Geol. Col.	TCu □ SCu □			Geologic Discription			Assay (5m average)						
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe		
0	▲ ▲						Brecciated andesite, partly amygdal andesite, aphyric andesite and with iron ore-rich frag. brownish - dark gray color							
50	▲ ▲				Alc., Mal, frac	Oz veinlet Sheared zone								
65.0	▲ ▲				Mal, Chry, frac	Hydroterm. altered								
69.5	V V					Oz veinlet	Amygdal andesite(massive), dark gray color							
87.0	V V						Aphyric andesite(massive), partly pl-rich porphyritic andesite brownish - dark gray color							
90.0	▲ ▲						Brecciated andesite with amygdal andesite							
100														
150														
200														
250														

Geologic Column (MJCC- 49 1: 1,000)

Depth (m)	Geol. Col.	TCu <input type="checkbox"/> SCu <input type="checkbox"/>			Geologic Discription			Assay (5m average)						
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe		
0	▲ ▼						Brecciated andesite, partly amygdal andesite, aphyric andesite and with iron ore-rich frag. brownish - dark gray color							
29.2	▲ ▼				Alc. Mal. frac	Qtz veinlet		Amygdal andesite(massive), partly pl-rich porphyritic andesite, brownish gray color						
37.0	▲ ▼						Brecciated andesite abundant in iron ore, partly aphyric andesite, dark gray color							
46.5	▲ ▼							Brecciated andesite abundant in iron ore, partly amygdal andesite, pl-rich porphyrite greenish -dark gray color						
50	▲ ▼						Pl-rich porphyritic andesite(massive)							
62.0	▲ ▼				Mal. Chry. frac	Hydroterm. altered		Brecciated andesite with amygdal andesite greenish -dark gray color						
66.0	▲ ▼													
80.0	▲ ▼													
100														
150														
200														
250														

Geologic Column (MJCC- 50 1:1,000)

Depth (m)	Geol. Col.	TCu <input type="checkbox"/> SCu <input type="checkbox"/>			Geologic Discription			Assay (5m average)						
		0.5	1.0	1.5%	Min.	Alt.	Lithology	TCu	SCu	Au	Ag	Fe		
0	V V V V L L V V V V V						Aphyric andesite, dacite and brecciated silicified andesite white - light gray color							
21.7	L L L L L L L L						Brecciated andesite and dacite(silicified) light gray - white color							
40.3	~ ~						Sheared Zone							
43.8	V V V V						Aphyric andesite and amygdal andesite, with pl-rich porphyrite, greenish gray color							
50	V V V V V V V V V V V V V V						Amygdal andesite, pl-rich porphyrite and brecciated andesite with iron ore dark - blackish gray color							
71.8	V V V V V V V V						Aphyric andesite(massive), partly amygdal andesite and tuff dark - blackish gray color							
84.6	V V						Amygdal andesite, with aphyric andesite							
87.0	V V V V V V V V V V V V						Aphyric andesite(massive), partly amygdal andesite and tuff dark - blackish gray color							
100	V V V V V V V V													
111.6	V V						Pl-rich porphyritic andesite, partly aphyric andesite, dark - blackish gray color							
117.8	V V						Aphyric andesite(massive), dark gray color							
120.9	▲ V						Amygdal andesite, partly brecciated andesite abundant in iron ore, dark gray color							
128.8	V V V V V V V V V V V V						Aphyric andesite(massive), partly amygdal tex. dark - blackish gray color							
150														
200														
250														

Depth (m)	Geol. Col.	TCu <input type="checkbox"/> SCu <input type="checkbox"/>			Geologic Discription		Assay (5m average)													
		0.5	1.0	1.5%	Min.	Alt.	Lithology													
0	▽ △																			
14.0	▽ △																			
24.6	▽ T																			
48.7	T T																			
50	T T																			
57.3	▽ T																			
100	▽																			
120.6	△ △																			
137.5	△ △																			
150	▽ △																			
178.8	T T																			
200	T T																			
210.0	△ V																			
250																				

Geologic Column (MJCC- 52 1:1,000)