PART Ⅲ CONCLUSION & RECOMMENDATION

PART III CONCLUSION & RECOMMENDATION

Chapter 1 Conclusion

1) The drilling has revealed that the "Odiongan Volcanics" supposedly underlies the Sibala Formation was highly altered andesite of Sibala Formation. No essential difference observed, major difference being the existence of abundant hematite instead of pyrite. Hereafter the term "Odiongan Volcanics" should be used to indicate the highly altered variety of andesite of Sibala Formation, which shows characteristic purplish color due to extensive hematite staining.

2) The trenching in Mt. Upao Area confirmed the existence of gold anomaly. Three diamond drills did not encounter any significant gold mineralization in the depths. The gold anomaly on the surface detected by geochemical survey and trenching is considered to be a kind of a product of the secondary enrichment caused by weathering, and leaching.

3) Drilling at Madarag Area discovered stronger gold mineralization, the highest value being 0.92g/t Au, and a disseminated sulfide copper mineralization associated with pyrite and magnetite. The occurrence is interesting but the copper grade is also sub-economic.

4) Moderately anomalous area in molybdenum and copper on the gossan west of Puntales village was tested by one vertical drill. The rock in the hole showed extensive alteration and fracturing, but no Mo-Cu mineralization detected. Also, the detailed geochemical survey for the anomaly failed to depict any significant anomaly.

5) The detailed geochemical survey covering the southern portion of Mt. Apiton(Apiton Area) detected extensive gold anomaly on the ridges. The occurrence of the anomaly is so similar to those in Mt. Upao and Madarag Areas. Judging from the drill results obtained from both areas, the possibility to discover an economically significant gold mineralization is considered to be rather remote.

Chapter 2 Recommendation for Future

The copper mineralization detected in the drill holes in Madarag is the most interesting and significant finding so far obtained in the survey area albeit the grade does not attain the economic significance. No further follow up works can be recommended at this stage.

The extensive gold anomaly found at the southern portion of Mt. Apiton, covering around the ridges is remarkably similar to that found in Mt. Upao and Madarag Areas. The results obtained from the drilling in both areas do not support any urgent execution of the follow up work.

Molybdenum and copper potential in Puntales Area diminished hence no further works are recommended either.

The gold anomalies, and copper mineralization in the surveyed areas should comprehensively be reviewed in more broader aspect including the tectonics and mineralization found in the neighbouring islands.

APPENDICES

MJPP－1 (1) Location : Mt.Upao Altitude : 245 m Direction : 45° Angle : －40° Depth : 150 m

DEPTH AND CORE ANGLE (m) (°)	DESCRIPTION
0.00	0.00-5.35m: reddish brown colored weakly argillized andesitewith strong hematite and limonite dissemination and veining. 5.12-5.19m; light grey colored fine grained quartz vein standing at 57 degrees to core axis.
5.35	5.35-6.06m: greenish grey colored moderately silicified and weakly argillized fine grained andesite with 7% pyrite dissemination.
6.06	6.06-16.48m: reddish brown colored argillized soft andesite which contains strongly silicified bleb. The boundary of the bleb are obscure and often gradational. Hematite and limonite veinlets and/or dissemination are ubiquitous in the section composing 10% of total volume. 11.54-12.20m; strongly argillized clayey zone with abundant hematite and limonite.
11.54	
12.20	
16.48	
18.65	16.48-18.65m: grayish purple colored strongly argillized andesite. The cracks are dominated by hematite and limonite. 18.65-25.37m: strongly argillized andesite that contains strongly silicified bleb with abundant(10%) hematite in vein/dissemination.
25.37	25.37-26.48m: greyey purple colored strongly argillized andesite. the cracks exhibits slickenside structure.
26.48	
28.25	26.48-28.25m: weakly argillized porous andesite with hematite limonite dissemination. Abundant pores in the section reaches 10mm across. 28.25-34.60m: reddish brown colored strongly argillized andesite with 10% hematite. the rock in the section are badly fractured.
34.60	34.60-45.70m: dark reddish brown colored porous andesite. The pores in the section are smaller, ranges from 1mm to 4mm. Hematite in veinlets and dissemination and in cracks are ubiquitous.
45.70	45.70-60.45m: alternating hematite rich bands that stand at 10 to 30 degrees to the core axis and milky white argillized andesite. The widths of the band; 10-40mm. Hematite occupies about 20% of the total volume.
46.40	
60.45	60.45-86.75m: reddish brown colored porous weakly argillized andesite with 15-20% hematite in veins/dissemination. the size of the pores ranges from needle point to 2mm. The predominant clay mineral is kaolinite.
86.75	86.75-100.50m:alternating silicified and argillized andesite; the section between 94.70 and 94.85m is greenish colored andesite with 10% pyrite. The following sections are badly fractured; 86.75-87.70m, 89.10-89.80m, 90.80-91.40m ,96.75-97.40m, 98.40-99.15m, and 100.20-100.50m.
87.70	
89.10	
89.80	
90.80	
91.40	
96.75	100.50m-114.65m: reddish brown colored porous andesite with 1-5mm pores. Milky white colored argillized(kaolinite) varieties occur sporadically as patches and or blocks. Hematite occurs as dissemination and in veinlets(0.5-3mm wide), total amount of hematite being around 20% by volume. 114.65-115.17m: dark grey colored, moderately silicified andesite with 20% very fine grained pyrite dissemination. discontinuous kaolinite veinlets(5-20mm long) observed throughout the section. 115.17-116.85m:reddish brown colored argillized andesite with 20% hematite dissemination. 116.85-117.80m: dark grey colored strongly silicified porous andesite with 15% pyrite dissemination. White clay(kaolinite) filling 2-5mm wide cracks are ubiquitous. 117.80-118.62m: weakly argillized hematite rich(20%) porous andesite. 118.62-121.45m: strongly silicified porous andesite with abundant black pyritic quartz veinlets and white quartz veinlets. Pyrite content of this section is around 20%. 2mm wide kaolinitic clayey veinlets also observed in the section. 121.45-126.60m:reddish brown colored moderately argillized porous andesite with 20% hematite dissemination.
97.40	
98.40	
99.15	
100.20	
100.50	
114.65	
115.17	
116.85	
117.80	
118.62	
121.45	
126.60	126.60-146.35m: dark grey colored strongly silicified porous andesite with 15-20% disseminated pyrite and/or in veinlets. Irregularly oriented fissures(1-3mm wide) filled with clay are observed. Following sections are fractured zones containing hematite(10-20%): 127.85m:standing at 21 degrees to core axis. 129.00m; 40 deg to core axis 132.15m; 30 deg 133.05m; 22 deg 134.65m; 60 deg 135.70m; 50 deg 145.80m; 25 deg 4mm wide fine grained quartz veinlet observed at 127.85m. 146.35-154.25m: strongly silicified andesite. lighter colored portion contains epidote replacing plagioclase together with pyrite. Darker colored portion contains 20% pyrite in networks and dissemination.Epidote apparently formed at the last stage of the alteration.
127.85	

ALTERATION AND MINERALIZATION: Silic. Qz-V Arg Sid

POSITION OF EXAMINED CORE SAMPLES: X R D

ASSAY RESULTS

Sample No.	Depth (m)	Width (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (%)	Zn (%)	Mo (%)
UD-1, 00	1.90m							
UD-1-1	5.10 ~ 6.50	1.40	<0.01	<0.2	0.008	<0.001	<0.001	<0.001
UD-1-2	21.05 ~ 21.90	0.85	<0.01	<0.2	0.001	<0.001	<0.001	<0.001
UD-1-3	45.70 ~ 46.40	0.70	0.01	<0.2	0.003	<0.001	<0.001	<0.001
UD-1-4	60.95 ~ 61.50	1.05	<0.01	<0.2	0.003	<0.001	<0.001	<0.001
UD-1-5	94.40 ~ 95.05	0.65	<0.01	<0.2	0.004	<0.001	<0.001	<0.001
UD-1-6	118.42 ~ 119.37	0.75	<0.02	<0.2	0.019	<0.001	<0.001	<0.001
UD-1-7	~ 120.66	1.29	<0.02	<0.2	0.016	<0.001	<0.001	<0.001
UD-1-8	138.35 ~ 140.00	1.65	<0.02	<0.2	0.014	<0.001	<0.001	<0.001
UD-1-9	144.37 ~ 145.10	1.13	<0.02	<0.2	0.013	<0.001	<0.001	<0.001

CORE RECOVERY (%) 0 50 100

SCALE (m) 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

APX. 1－1 Graphic Geologic Log of DDH MJPP－1

MJPP – 1 (2)

Location : Mt. Upao Altitude : 245 m Direction : 45° Angle : −40° Depth : 300.1 m

SCALE (m)	GEOLOGIC COLUMN	DEPTH AND CORE ANGLE (m) (°)	DESCRIPTION	ALTERATION AND MINERALIZATION Silic	Qz-V	Arg	Sid	POSITION OF EXAMINED CORE SAMPLES	ASSAY RESULTS Sample No.	Depth (m)	Width (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (%)	Zn (%)	Mo (%)	CORE RECOVERY (%) 0 50 100	SCALE (m)
150			154.25–154.80m: ditto, subrounded pyrite masses(5–10mm across) are surrounded by quartz aggregates.						UD-1-10	150.60 ~ 151.80	1.20	<0.02	<0.2	0.020	<0.001	<0.001	<0.001		150
		154.25	154.80–157.00m: dark grey colored strongly silicified andesite with 20% pyrite dissemination. Epidote exists replacing plagioclase phenocrysts and infilling discontinuous, latest stage minute cracks.						UD-1-11	153.90 ~ 154.80	1.40	<0.02	<0.2	0.010	<0.001	<0.001	<0.001		
		154.80							UD-1-12	~ 155.90	1.10	<0.02	<0.2	0.009	<0.001	<0.001	<0.001		
									UD-1-13	~ 157.00	1.10	<0.02	<0.2	0.009	<0.001	<0.001	<0.001		
									UD-1-14	~ 158.05	1.05	<0.02	<0.2	0.010	<0.001	<0.001	<0.001		
		159.00	157.00–159.00m: similar rock with 20% pyrite, at 158.25m; 70mm wide white fine grained quartz vein.						UD-1-15	~ 159.00	0.95	<0.02	<0.2	0.007	<0.001	<0.001	<0.001		
160		159.30	159.00–162.88m: dark grey strongly silicified andesite with 20% pyrite dissemination. 159.00–159.30m; fine grained quartz network zone.						UD-1-16	~ 160.47	1.47	<0.02	<0.2	0.010	<0.001	<0.001	<0.001		160
		162.88	162.88–165.20m: light yellowish brown colored strongly argillized and fractured zone with poor recovery of core(22%). ∠45°																
		165.20							UD-1-17	165.80 ~ 167.00	1.20	<0.02	<0.2	0.008	<0.001	<0.001	<0.001		
170			165.20–179.00m: dark grey colored strongly silicified porous andesite with 20–25% pyrite consisted of dissemination and 0.5–3mm wide veinlets. Most pyrite grains are extremely fine hence display black color. Epidote in 0.5mm wide irregular fissures and replacing plagioclase phenocrysts are ubiquitous. 1–5mm wide quartz veinlet occurs every 20cm core length.						UD-1-18	170.65 ~ 171.85	1.20	<0.02	<0.2	0.005	<0.001	<0.001	<0.001		170
									UD-1-19	174.30 ~ 176.00	1.50	<0.02	<0.2	0.009	<0.001	<0.001	<0.001		
		179.00	179.00–183.50m: dark grey colored weakly argillized andesite with fine grained pyrite which occupies 15% of the volume. White clay veinlet (5mm wide) most probably composed of kaolinite standing at 30 degrees to the core axis occurs at 182.60m. ∠30°						UD-1-20	177.70 ~ 179.00	1.30	<0.02	<0.2	0.009	<0.001	<0.001	<0.001		
180		182.60																	180
		183.50	183.50–184.20m: 20% disseminated hematite bearing argillized zone.																
		184.20	184.20–185.80m: grey colored weakly argillized andesite with 7% pyrite dissemination.																
		185.80																	
		186.10	185.80–191.70m: grey colored strongly silicified andesite with 15% pyrite in dissemination and in 0.5–2mm wide veinlets. Epidote occurs as spots in plagioclase and in microfissures that cut all other structures suggesting the epidote was formed in the latest stage of the alteration. Hematite bearing fissures are seen in the following sections; at 186.10m 15cm wide fissure standing at 17 degrees to the core axis, and at 188.40m 10cm wide fissure where the fissure stands at 20 degrees. ∠17°																
		188.40																	
		∠20°							X R D	UD-1, 188.50m									
190																			190
		191.70																	
		193.15							X R D	UD-1, 194.80m									
		196.70	191.70–193.15m: dark grey colored strongly silicified andesite with 20% disseminated pyrite.																
		198.65							UD-1-21	198.68 ~ 199.85	1.17	<0.02	<0.2	0.012	<0.001	<0.001	<0.001		
		199.85	193.15–196.70m: reddish brown to milky white colored argillized andesite containing 15% hematite dissemination.																
200		200.15							UD-1-22	200.00 ~ 202.20	1.20	<0.02	<0.2	0.008	<0.001	<0.001	<0.001		200
		201.00																	
		202.20	196.70–207.35m: dark grey colored strongly silicified andesite with 20 to 30% pyrite in dissemination and in 20mm long 0.5mm to 1mm wide undulating bands which stand perpendicular to the core axis. The latter predominates in 205.20–206.0m, epidote filling microfissures are also common in the section. Following sections contain quartz network zones; 198.65–199.85m, and 201.0–202.20m, composed of 0.5–10mm wide veinlets. Hematite is seen at 199.86–200.15m, the central portion being badly fractured and argillized which is responsible for the introduction of hematite.						P S	UD-1, 205.60m									
		205.20																	
		206.00							UD-1-23	205.40 ~ 206.00	0.60	<0.02	<0.2	0.008	<0.001	<0.001	<0.001		
		207.35																	
		208.00							X R D	UD-1, 211.90m									
210		209.15																	210
									UD-1-24	209.75 ~ 210.75	1.00	<0.02	<0.2	0.009	<0.001	<0.001	<0.001		
									UD-1-25	~ 212.40	1.65	<0.02	<0.2	0.011	<0.001	<0.001	<0.001		
		213.55							UD-1-26	~ 213.55	1.15								
		214.90																	
		216.05																	
		216.50	207.35–208.00m: strongly silicified andesite with 15% pyrite dissemination. Network of quartz composed of 0.5mm to 5mm wide quartz veinlets ubiquitous in the section.																
		218.25							UD-1-27	218.25 ~ 219.35	1.10	<0.02	<0.2	0.011	<0.001	<0.001	<0.001		
220		∠60°							UD-1-28	~ 220.65	1.30	<0.02	<0.2	0.011	<0.001	<0.001	<0.001		220
		220.65	208.0–209.15m: reddish brown colored moderately silicified andesite with 20% hematite dissemination.						UD-1-29	~ 221.40	0.75								
		221.50																	
		222.55	209.15–213.55m: dark grey colored strongly silicified and brecciated andesite. White quartz network ubiquitous together with 0.5–20mm wide 'black veins' that are consisted from very fine quartz and micro grains of pyrite. Epidote in microfissures apparently formed at the latest stage of the alteration are frequently observed.																
		229.70							UD-1-30	228.15 ~ 229.20	1.05	<0.02	<0.2	0.008	<0.001	<0.001	<0.001		
230																			230
		231.95	213.55–214.90m: porous strongly silicified andesite with 20% pyrite in dissemination and in 0.5 to 3mm wide veinlets.																
		232.90																	
		233.70	214.90–218.25m: strongly silicified grey colored andesite with 20% pyrite occurring in similar form as in the previous section. 216.05–216.50m; brecciated and strongly silicified, quartz network bearing section.																
		237.30																	
		238.00																	
		∠40°																	
240		239.75							UD-1-31	239.75 ~ 241.12	1.37	<0.02	<0.2	0.007	<0.001	0.003	0.004		240
		∠25°	218.25–221.50m: dark grey colored strongly silicified and brecciated andesite with 25% pyrite. White quartz network and discontinuous black veins composed of micro pyrite and quartz occur throughout the section. Epidote filling microfissures also seen in the section.						P S	UD-1, 245.10m									
									UD-1-32	243.10 ~ 243.90	0.80	<0.02	<0.2	0.012	<0.001	<0.001	<0.001		
									UD-1-33	~ 245.00	1.10	<0.02	<0.2	0.012	<0.001	<0.001	<0.001		
		246.40							UD-1-34	~ 246.40	1.40	<0.02	<0.2	0.005	<0.001	<0.001	<0.001		
		247.70	221.50–222.55m: dark grey colored strongly silicified porous andesite with 25% pyrite in dissemination and in 0.5–5mm wide veinlets.						UD-1-35	247.70 ~ 248.40	0.70	<0.02	<0.2	0.011	<0.001	<0.001	<0.001		
		248.40																	
250		250.65	222.55–229.70m: strongly silicified, brecciated andesite with 25% pyrite. White quartz network and black veins occur in the section. Epidote occur as spot in quartz and replacing phenos in andesite, and also filling irregular microfractures.																	250
		252.40							X R D	UD-1, 252.60m									
									UD-1-38	250.85 ~ 252.40	1.75	<0.02	<0.2	0.004	<0.001	0.001	0.001		
									UD-1-39	~ 254.90	2.50	<0.02	<0.2	0.011	0.001	0.002	<0.001		
		254.90	229.70–231.95m: dark grey colored strongly silicified porous andesite with 30% pyrite dissemination.																
		260.50	231.95–239.75m: grey colored strongly silicified andesite with 15% pyrite in dissemination and in 0.5–2mm wide veinlets. Brecciated structure are seen in the following section; 232.90–233.70m. At 238.0m there is a 45mm wide vein composed of fine grained quartz and kaolinitic clay.						X R D	UD-1, 260.50m									
									UD-1-40	260.80 ~ 261.80	1.20	<0.02	<0.2	0.010	0.001	0.009	<0.001		
									UD-1-41	262.30 ~ 267.20	4.70	<0.02	<0.2	0.010	0.002	0.012	<0.001		
		267.20	239.75–248.40m: strongly silicified and brecciated andesite with 25% pyrite dissemination and in veinlets. Black vein cutting white fine grained quartz veinlet observed. At 248.35m, eye shaped aggregate of epidote observed.																	
									UD-1-42	267.70 ~ 269.20	1.50	<0.02	<0.2	0.012	<0.001	0.007	<0.001		
270																			270
			248.40–250.65m: dark grey colored weakly argillized andesite with 15% pyrite dissemination.																
									UD-1-43	271.30 ~ 273.00	1.70	<0.02	<0.2	0.011	0.001	0.001	<0.001		
			250.65–252.40m: dark grey colored strongly argillized and fractured andesite with 10% pyrite dissemination. core recovered are all fragmental.																
									UD-1-44	276.20 ~ 277.20	1.00	<0.02	<0.2	0.009	0.001	0.001	<0.001		
			252.40–254.90m: chocolate colored clay accompanying 10mm diameter rounded breccia of andesite. No pyrite observed.																
280			254.90–267.20m: light grey colored clay zone with 2% fine grained pyrite.																280
			267.20–287.60m: grey colored clay zone with fine grained pyrite dissemination of 3–5%.																
		287.60	287.60–289.40m: chocolate brown colored clay. 10–20mm diameter rounded breccia of andesite observed in the clay. The clay zone extensively continues from 252.40m to 289.40m.						UD-1-36	287.50 ~ 289.50	2.00	<0.02	<0.2	0.009	<0.001	0.003	<0.001		
290		289.40	289.40–300.10m(End of the Hole): dark grey colored weakly silicified fine grained andesite with 2% pyrite dissemination. 20% magnetite contained in the section as 1–2mm wide elliptical spot. 8mm wide anhydrite veinlet can be seen at 295.20m. There are 10-veinlets (0.5–3mm wide) per every one meter of core. There are abundant irregular cracks in the section hence the core tends to crumble very easily, brittle.																	290
300		300.10							UD-1-37	298.80 ~ 300.10	1.30	<0.02	<0.2	0.012	<0.001	0.010	<0.001		300

APX. 1–2 Graphic Geologic Log of DDH MJPP–1

MJPP－2 (1)　Location : Mt Upao　Altitude : 245m　Direction : 90°　Angle : －40°　Depth : 150 m

SCALE (m)	GEOLOGIC COLUMN	DEPTH AND CORE ANGLE (m) (°)	DESCRIPTION
		0.00	0.00-3.00m: grey-brown moderately argillized andesite accompanying irregularly shaped hematite-limonite veinlets(1-2mm wide).
		3.00	1.25-3.00m: badly crushed core.
		3.58	3.00-3.58M: brown colored argillized andesite, or fine grained tuff. The rock contains breccias of 1-2cm diameter- argillized brown colored altered andesite.
		5.04	3.58-6.60m: 1-2cm diameter-grey-brown andesite breccia bearing brownish colored altered(argillized) fine grained andesite, or tuff. Slickensides can be observed suggesting intense shearing and fracturing.
		6.60	5.07-5.22m: moderately silicified parts surrounding small druse/vugs associating with hematite-limonite.
		∠30°	6.60-12.30m: reddish brown colored argillized andesite, the color due to ubiquitous hematite and limonite. Up to 1% pyrite in grey colored portion.
		10.70	9.75-10.15m: porous, argillized soft clayey material. Fractures of 30 deg. to the axis of the core predominate around at 10.70m.
		12.30	12.30-15.30m: intensely crushed core recovered. The rock is similar to the above.
		15.30	15.30-22.40m: yellowish brown to red-purple colored argillized andesite. The color changes with the amount of hematite and limonite in the rock. White spots after plagioclase phenos are visible locally.
		22.40	22.40-95.47m: red-purple colored argillized andesite, milky white clay (kaolinite) along cracks.
		∠35°	26.30-27.80m: badly crushed core.
		28.58	1cm wide quartz vein at 28.58m, standing at 35 degr. to the core axis.
		36.00	The peripheral part of the vein shows
		36.31	black or dark red-purple color due to
		37.50	heavy concentration of hematite-
		37.97	limonite.
		∠30°	36.00-36.31m: light grey colored fine
		40.85	grained silicified rock in shape of quartz veinlet/breccia(1cm diameter).
			37.50-37.97m: dark brown colored hematite-limonite bands bearing silicified rock. There are also minute (1-4mm) silicified spots surrounded by hematite-limonite in the rock.
		44.20	44.20-49.10m: dark reddish brown strongly hematitic zone.
			at 49.42m,2cm hematic-quartz vein.
		49.10	49.10-53.40m: light grey-brown colored
		49.42	argillized rox. Locally there are strongly silicified breccia like portions.
		52.00	52.0-53.4m: badly broken core.
		53.40	53.40-57.60m: yellowish light grey colored argillized,with local weakly silicified portions.
		57.60	57.60-68.15m: red-brown argillized altered andesite. At 60.67m there is a white qtz vein(2.5cm). 57.6-59.2:badly broken core recovered.
		59.20	At 61.00m, hematite-quartz vein(5-10mm)
		60.67	
		61.00	
		∠30°	
		68.15	68.15-69.60m: fine grained opaline
		69.60	undulating/folding quartz vein (7cm wide) throughout the section.
		∠12°	69.6-71.80m: abundant silicified pores
		71.80	bearing silicified/argillized zone.
		73.90	71.80-94.0m: reddish brown colored hematite-limonite rich arg-altered zone, locally there are 1-2mm qtz veins and strongly silicified breccia like portions.
			71.80-73.90m, 79.24-79.80m, 83.12-84.05m,and 84.40-87.10m: badly broken core.
		79.24	
		79.80	
		83.12	
		84.05	
		84.40	
		87.10	
		94.00	
		94.18-94.31	94.00-100.95m: brecciated pale grey colored andesite(tuff breccia?) max size of breccia;10cm.
		∠15°	94.18-94.31m: light grey mudstone.
			From 95.47m: the color of rock changes to greenish, due to the paucity of hematite.
		∠12°	
		100.95	
		107.75	
		∠20°	
		109.50	100.95-125.70m: alternating zones of;
		110.00	greenish grey colored strongly
		∠34°	silicified zone, and hematite bearing silicified drusy rock. Argillized plagioclase phenos in greenish andesite are absent in strongly silicified varieties, only cavities/pores are visible.
		116.17	At 107.75m, first occurrence of pyrite
		118.48	(2%).
			109.50-110.0m: 1.5% pyrite
		119.00	116.17-116.48m: 5% pyrite
		119.85	119.0-119.85m: 3% pyrite
		121.00	121.0-121.93m: 3% pyrite
		121.93	122.5-122.95m: 3% pyrite
		122.50	
		122.95	
		125.70	125.70-135.00m: green/grey colored zone. Strongly silicified portion has plenty of pore.average pyrite content of the section: 5%
		∠20°	127.5-128.78m: 8% py associating
		128.63	with strongly silicified porous rock.
		∠5°±	128.63m, 6-10mm wide clay-qtz vein
		132.50	132.50m, 15mm wide strongly silicified pyrite bearing zone.
		133.32	133.32m, 30mm wide white soft clay
		∠80°	vein.
		135.00	
		136.95	135.00-145.05m: Alternating occurrences of hematitic rock and pyritic greenish grey rock. 141.73m:5-10mm white clay vein.
		137.50	136.95-137.5m: contains 7% pyrite.
		139.71	139.71-140.47m:contains 5% pyrite.
		140.47	140.9-142.55m: contains 3-5% py.
		140.90	
∠30°		141.73	
		142.55	
		∠17°	
		145.05	145.05-147.60m: strongly argillized and fractured zone containing slickensides with no particular orientation.Also there are 5mm wide white clay veins.
		147.60	

ALTERATION AND MINERALIZATION	POSITION OF EXAMINED CORE SAMPLES	Sample No.	Depth (m)	Width (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (%)	Zn (%)	Mo (%)
		UD-2-1	3.00 ~ 3.58	0.58	<0.01	1.0	0.005	<0.001	<0.001	0.001
		UD-2-2	5.07 ~ 5.22	0.15	<0.01	0.4	0.006	<0.001	<0.001	<0.001
	T S	UD-2, 004.97m								
		UD-2-3	28.50 ~ 28.62	0.12	<0.01	0.3	0.004	0.001	<0.001	<0.001
		UD-2-4	36.00 ~ 36.31	0.31	0.01	0.5	0.007	0.002	<0.001	<0.001
		UD-2-5	45.30 ~ 46.80	1.50	0.01	<0.2	0.006	0.002	<0.001	<0.001
		UD-2-6	~ 48.30	1.50	<0.01	0.6	0.003	<0.001	<0.001	<0.001
		UD-2-7	49.10 ~ 49.53	0.43	<0.01	0.2	0.005	<0.001	<0.001	<0.001
	F I	UD-2, 049.40m								
		UD-2-8	60.53 ~ 61.86	1.33	<0.01	0.2	0.004	<0.001	<0.001	<0.001
	X R D	UD-2, 067.60m								
		UD-2-9	68.13 ~ 69.60	1.45	<0.01	0.2	0.003	<0.001	<0.001	<0.001
		UD-2-10	75.60 ~ 77.70	2.10	<0.01	0.2	0.004	<0.001	<0.001	<0.001
		UD-2-11	~ 78.88	1.18	<0.01	0.2	0.003	<0.001	<0.001	<0.001
		UD-2-12	95.47 ~ 96.43	0.96	<0.01	0.2	0.001	<0.001	<0.001	<0.001
		UD-2-13	98.60 ~ 99.85	1.25	<0.01	<0.2	0.003	<0.001	<0.001	<0.001
		UD-2-14	109.60 ~ 109.98	0.38	<0.01	<0.2	0.016	<0.001	<0.001	0.001
		UD-2-15	110.84 ~ 111.31	0.92	0.01	0.2	0.001	<0.001	<0.001	<0.001
		UD-2-16	115.60 ~ 116.17	0.57	<0.01	<0.2	0.001	<0.001	<0.001	<0.001
		UD-2-17	~ 116.68	0.51	<0.01	<0.2	0.018	<0.001	<0.001	<0.001
		UD-2-18	~ 117.80	1.32	0.01	<0.2	0.001	<0.001	<0.001	<0.001
		UD-2-19	131.24 ~ 131.40	0.16	<0.01	<0.2	0.020	<0.001	<0.001	<0.001
		UD-2-20	143.15 ~ 144.20	1.05	<0.01	<0.2	0.017	<0.001	<0.001	<0.001
		UD-2-41	146.60 ~ 147.60	2.00	<0.01	<0.2	0.021	<0.001	0.001	<0.001

CORE RECOVERY (%) 0 50 100

APX. 2－1　Graphic Geologic Log of DDH MJPP－2

MJPP-2 (2)

Location : Mt.Upao Altitude : 245 m Direction : 90° Angle : −40° Depth : 301 m

DEPTH AND CORE ANGLE (m) (°)	DESCRIPTION	POSITION OF EXAMINED CORE SAMPLES	Sample No.	Depth (m)	Width (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (%)	Zn (%)	Mo (%)
∠15°	147.60-152.70m: grey colored weakly argillized andesite with 3% pyrite. Hematite still visible in cracks.										
152.20											
152.70	At 152.20m; 10mm wide white clay quartz vein.		UD-2-21	153.95 ~ 154.15	1.10	0.01	<0.2	0.005	0.001	<0.001	<0.001
154.15			UD-2-22	154.85 ~ 155.28	0.43	0.02	0.2	0.038	<0.001	<0.001	<0.001
155.60	152.70-164.20m: Alternating occurrence of hematitic rock and pyritic greenish grey rock. Some hematitic portion with off white color are strongly silicif'd. Reddish portion shows stronger arg'n.										
∠30° 156.40											
158.80											
159.10											
159.82	pyritic greenish grey colored portion with stronger silicification contains 1-3mm pores, while less silicified portion contains white argillized plagioclase phenos.										
161.38											
162.80	154.15-155.6m: contains 3% pyrite.										
∠22°	156.4-156.8m: ditto										
164.20	159.1-159.82m: ditto										
165.00	161.38-162.8m: contains 8% pyrite.										
163.70	164.20-171.00m: greenish grey colored strongly silicified andesite, white clay and hematite visible in cracks and or joints.										
	164.2-165.0m: contains 7% pyrite.										
	165.0-165.7m: contains 5% pyrite.										
	165.7-170.0m: contains 7-12% py.										
171.00			UD-2-23	170.20 ~ 171.00	0.80	<0.01	0.2	0.032	<0.001	<0.001	<0.001
172.00	171.00-175.23m: greenish grey colored argillized andesite.										
	171.35-171.6m, 172.5-172.8m, and 174.0-174.9m: strongly argillized and fractured. At 172.0m; 15-20mm wide milky white clay vein.										
175.23	175.23-175.79m: reddish brown colored hematitic porous andesite.										
173.79	175.79-183.19m: greenish grey weakly argillized andesite with local silicification. Argillized portion contains plagioclase phenos and silicified portion have plenty minute to 2mm pores.										
∠24°											
181.40			UD-2-24	181.15 ~ 181.55	0.40	<0.01	<0.2	0.040	<0.001	<0.001	<0.001
∠28°											
183.19		X R D	UD-2, 183.45 m								
183.85											
∠32°	At 181.4m; 7-10mm wide white to light grey colored qtz-clay vein.										
∠40°											
186.48	176.5-176.98m, 177.76-177.98m, 178.5-179.05m, and 182.45-182.86m: strongly argillized zones with white clay.		UD-2-25	186.02 ~ 186.70	0.68	<0.01	<0.2	0.024	<0.001	<0.001	<0.001
188.29			UD-2-26	188.70 ~ 189.20	0.50	<0.01	<0.2	0.018	<0.001	<0.001	<0.001
188.64	183.19-183.85m: silky white v fine clay zone(pyrophyllite, and/or sericite).		UD-2-27	190.10 ~ 191.00	0.90	<0.01	<0.2	0.015	<0.001	<0.001	<0.001
190.10		P S	UD-2, 190.75 m								
191.00	183.85-186.70m: strongly silicified zone with 12% pyrite. At 186.48m; 2cm wide white clay vein, the periphery(10cm) of the zone contains 20% pyrite.										
193.55			UD-2-28	194.17 ~ 195.42	1.25	<0.01	<0.2	0.012	<0.001	<0.001	<0.001
197.05	186.70-187.15m: strongly argillized zone.										
198.18	187.15-188.70m: dark grey colored weakly argillized/silicified andesite with 15% pyrite throughout the section.		UD-2-29	198.18 ~ 199.00	0.82	<0.01	<0.2	0.014	<0.001	<0.001	<0.001
199.00											
199.65											
	188.70-188.84m: clay-pyrite-qtz veins.										
201.90	188.84-190.10m: dark grey colored strongly silicified andesite with 15% pyrite.										
203.05											
204.32	190.10-191.00m: white clay-quartz bearing strongly silicified zone.		UD-2-30	203.05 ~ 204.32	1.27	0.01	<0.2	0.020	<0.001	0.001	<0.001
206.62	191.00-193.55m: bluish grey colored strongly silicified andesite with 5% pyrite dissemination. Strongly silicified zones are porous, while weakly silicified portion retains white argillized plagioclase phenos.										
210.90	193.55-197.05m: off white quartz vein associating epidote(max 20mm) network zone. The periphery(3-5mm) of the qtz veins contain up to 40% pyrite.										
211.60											
213.01											
215.40	197.05-206.62m: bluish grey colored weak to moderately silicified andesite with 8-10% pyrite; Following sections are strongly silicified, and contain irregular pyrite veins(max 5mm) and patchy aggregate of py concentration; 198.18-199.0m, 199.65-201.90m, and 203.05-204.32m.		UD-2-39	213.01 ~ 214.30	1.29	<0.02	<0.2	0.013	<0.001	<0.001	0.001
	206.62-210.90m: red-brown moderately silicified andesite with filmy-veinlet hematite, strongly silicified portion are porous(1-3mm radius). At 207.50m and 209.10m there remain 10cm wide remnant of bluish grey andesite with 5% pyrite.										
225.05	210.90-232.60m: light greyey purple colored moderately argillized andesite with filmy to sparse network with 2mm wide hematite veinlets. Strongly argillized zones; 210.90-211.60m, and 213.01-215.40m contain 3% pyrite and show purplish grey color.										
226.10											
228.23											
228.40											
229.60		X R D	UD-2, 229.60m								
230.36			UD-2-40	229.60 ~ 230.60	1.00	<0.02	<0.2	<0.001	0.001	<0.001	0.002
232.60	Following sections are strongly fractured and associate purplish grey clay; 225.05-226.10m, 228.23-228.40m, and 229.60-230.36m.										
233.70	232.60-233.70m: brownish purple colored weak to moderately silicified andesite. Strongly silicified portions are porous(max 2mm) with hematite veinlets(film to 3mm). black hematite-limonite film fills in the cracks.										
239.75											
240.65	233.70-244.40m: 2-20mm wide quartz vein/network bearing bluish grey colored strongly silicified zone with 12% pyrite dissemination. the qtz veins contain epidote specks. 239.75-240.65m: dark grey colored conspicuously porous(av.2mm) section.		UD-2-31	244.40 ~ 245.84	1.46	<0.01	<0.2	0.008	<0.001	0.001	<0.001
244.40			UD-2-32	245.84 ~ 246.60	0.76	0.01	<0.2	0.007	<0.001	<0.001	<0.001
246.60	244.40-246.60m: quartz vein with epidote and pyrite specks. Also contain 2-4cm radius subrounded breccia like fine grained pyrite aggregates(20% py).	X R D	UD-2, 245.92 m								
		P S	UD-2, 245.95 m								
	246.60-254.81m: similar to 232.7-244.4m, white quartz vein or network zone with epidote specks. the width of the individual qtz veins ranges from 2 to 20mm. the bluish grey colored rock in the section contains 12% pyrite and has very porous(max 2mm) strongly silicified pumice like portion with 10% pyrite, i.e., 253.55-253.92m										
253.55											
253.92											
254.87											
256.60	254.81-256.60m: bluish grey colored strongly silicified andesite associating pyrite concentrated breccia like aggregates(av.5mm, max 20mm) which contain 20% pyrite. 3-7mm wide quartz veins surround the breccias.		UD-2-33	254.81 ~ 256.60	1.79	<0.01	<0.2	0.030	<0.001	0.001	<0.001
	256.60-276.93m: weak-moderately silicified andesite with 5-7% pyrite dissemination. patchy strongly silicified portion has porous texture with 1-2mm pores.										
	271.70-273.50m; badly fractured zone with grey colored clay.										
271.70		X R D	UD-2, 273.10 m								
273.50											
276.93	276.93-282.85m: dark blue-grey colored strongly silicified andesite with qtz network(1-20mm wide) associating 5% pyrite. vein qtz occupies 15-20% of the section. Epidote visible in qtz vein and in the rock.		UD-2-34	276.93 ~ 278.02	1.09	0.01	<0.2	0.014	<0.001	0.001	<0.001
			UD-2-35	278.02 ~ 279.03	1.01	<0.01	<0.2	0.008	<0.001	<0.001	<0.001
			UD-2-36	279.03 ~ 280.45	1.42	<0.01	<0.2	0.008	<0.001	0.001	<0.001
			UD-2-37	280.45 ~ 281.65	1.20	<0.01	<0.2	0.008	<0.001	0.001	<0.001
282.85	282.85-293.26m: bluish grey silicified andesite. silicification get weaker toward the bottom, being strong to moderate in upper section with 7% pyrite dissemination together with black colored pyritic veins(max 10mm wide). strongly silicified portion have max.2mm diameter pore.		UD-2-38	281.65 ~ 282.85	1.20	<0.01	<0.2	0.007	<0.001	0.001	<0.001
293.26	293.26-294.90m: grey colored clayey zone with 7% pyrite.	X R D	UD-2, 293.50m								
294.90	294.90-301.00m(End of the Hole): weakly argillized brittle andesite with 8% pyrite dissemination and pyritic black veins. 298.02-298.40m; gray colored clayey zone.										
298.02	7-12mm wide gypsum veins at 299.60m and 301.0m. 1-2mm wide gypsum veinlets can be seen sporadically throughout the section.										
298.40											
299.60											
∠39° 300 ∠55° 301.00											

APX. 2–2 Graphic Geologic Log of DDH MJPP–2

MJPP-3 (1) Location : Mt. Upao Altitude : 245 m Direction : 135° Angle : −40° Depth : 150 m

DEPTH AND CORE ANGLE (m) (°)	DESCRIPTION
0	**0.00–2.30m:** yellowish brown colored soil.
2.30	**2.30–5.20m:** milky white colored strongly argillized andesite with 5% hematite dissemination. kaoline is the dominant clay.
5.20	**5.20–11.80m:** reddish brown colored weakly argillized andesite with hematite dissemination and in 0.5–2mm wide veinlets totalling to 25% by volume.
11.80	**11.80–15.50m:** purplish brown colored strongly argillized andesite with 25% disseminated hematite. Irregular cracks of 1 to 8mm width filled by white–milky colored clay(kaolinite) predominate in the section.
15.50	**15.50–22.50m:** grey colored strongly argillized andesite with very fine grained pyrite dissemination(3%). 0.5mm wide cracks filled by clay and/ or anhydrite are ubiquitous in the section.
22.50	**22.50–25.80m:** reddish brown colored strongly argillized andesite with 20% hematite dissemination.
25.80	**25.80–28.65m:** grey brown colored strongly argillized andesite with 15% hematite dissemination. The section between 28.00 to 28.35m contains 5% magnetite in dissemination together with hematite.
28.65	**28.65–33.25m:** reddish brown colored weakly argillized andesite with 15% disseminated hematite. grey colored andesite islands with no apparent pyrite are seen in 10cm and 15cm diameters blocks at;30.50m, and at 31.70m respectively.
33.25	∠32°
33.80	**33.25–33.80m:** grey colored weakly argillized andesite with very fine grained pyrite dissemination(5%).
36.20	
36.60	**36.20–36.60m:** reddish brown colored clay zone with 20% hematite.
38.85	**33.80–36.20m:** brownish grey colored weakly argillized porous andesite with abundant irregular cracks filled with hematite which may occupy 17% of total volume of the rock. At 34.60m there is a crack containing minute grained pyrite which stands at 32 degrees to the core axis.
41.50	**36.60–38.85m:** reddish brown colored weakly silicified porous andesite with 20% hematite dissemination.
50.85	∠80°
52.60	**38.85–41.50m:** purplish brown colored strongly argillized andesite with 10% hematite dissemination. Irregular cracks/fissures filled by white clay mineral predominate in the section hence the core tends to crumble easily.
52.90	
53.60	
55.10	**41.50–52.60m:** reddish brown colored weakly to moderately silicified porous andesite with 15% hematite dissemination. At 50.85m there is a 10mm wide very fine grained milky white colored quartz vein standing at 80 degrees to the core axis.
65.80	**52.60–52.90m:** grey colored very strongly silicified porous andesite with 5% hematite dissemination. The pores are filled by white colored clay.
67.70	**52.90–53.60m:** greenish grey colored strongly argillized and chloritized andesite with 7% hematite dissemination. strongly chloritized portion contains less than 1% very fine grained pyrite.
72.90	**53.60–55.10m:** purplish brown colored weakly silicified fine grained andesite with 8% hematite dissemination.
74.00	**55.10–65.80m:** dark reddish brown colored weakly argillized and silicified porous andesite with hematite in dissemination and in crack filling which amounts to 15% in total.
76.20	Dark grey colored, 30 x 40mm rounded breccia of weakly argillized andesite which contain 10% disseminated pyrite occur at 58.90m.
78.25	**65.80–67.70m:** purplish brown colored strongly argillized andesite with 15% hematite dissemination.
79.20	**67.70–72.90m:** reddish brown colored weakly argillized porous andesite with 20% hematite in dissemination and in 0.5–2mm wide veinlets.
92.45	**72.90–74.m:** light grey colored weakly silicified fine grained andesite with no apparent pyrite. Hematite(5%) can be seen only in dendritic fractures.
99.10	**74.00–76.20m:** reddish brown colored moderately argillized porous andesite with 20% hematite dissemination.
99.90	**76.20–78.25m:** purplish grey colored weakly argillized andesite with dendritic irregular cracks/fractures filled with hematite which may occupy 5% of the total volume.
104.38	**78.25–79.20m:** dark grey colored moderately silicified porous andesite with very fine grained 7% pyrite in dissemination. 0.5mm wide fissures filled with white clay and hematite are seen sporadically in the section.
105.20	**79.20–92.45m:** reddish brown colored moderately argillized porous andesite with 18% hematite dissemination. Sections 81.20–83.0m.and 88.10–88.90m are intensely fractured and only broken core recovered.
108.40	**92.45–99.10m:** reddish brown colored moderately silicified andesite with 1–5mm diameter pores and 15% hematite dissemination. Milky white colored strongly silicified, breccia like pods occur sporadically(4 in 1m core length).
115.80	**99.10–99.90m:** yellowish brown colored weakly silicified, porous andesite with 10% hematite dissemination.
117.25	**99.90–104.38m:** reddish brown colored strongly silicified andesite. originally milky white colored andesite was intensely fractured and the fractures and cracks are filled with hematite/ limonite hence show overall reddish color. 103.55–104.05m; grey colored andesite that contains 10% pyrite dissemination.
119.15	**104.38–105.20m:** dark grey colored strongly silicified, brecciated andesite with very fine grained pyrite in dissemination and 5mm wide veinlets amounting to 15% total pyrite content.
119.70	**105.20–108.40m:** reddish brown to purple colored moderately to strongly silicified porous andesite with 20% hematite in network filling abundant fractures.
121.80	**108.40–115.80m:** reddish brown colored similar rock as above, with 15% hematite in dissemination.
123.30	**115.80–117.25m:** grey colored strongly silicified andesite with 10% fine grained pyrite dissemination. at 116.20m, epidote spot(2mm across) observed.
127.50	
128.80	
130.00	
130.30	
134.95	
135.90	
142.05	
142.90	
145.50	
146.40	

ASSAY RESULTS									
POSITION OF EXAMINED CORE SAMPLES	Sample No.	Depth (m)	Width (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (%)	Zn (%)	Mo (%)
X R D	UD-3.0	04.60m							
	UD-3-1	15.50 ~ 18.00	2.50	<0.02	<0.2	0.023	<0.001	<0.001	<0.001
X R D	UD-3.0	15.60m							
X R D	UD-3.0	20.50m							
	UD-3-2	34.10 ~ 35.00	0.90	<0.02	<0.2	0.004	<0.001	<0.001	<0.001
	UD-3-3	~ 36.60	1.60	<0.02	<0.2	0.002	<0.001	<0.001	<0.001
	UD-3-4	50.40 ~ 51.05	0.65	<0.02	<0.2	<0.001	<0.001	<0.001	<0.001
	UD-3-5	53.00 ~ 54.05	1.05	<0.02	<0.2	0.001	<0.001	<0.001	<0.001
	UD-3-6	69.15 ~ 70.35	1.20	<0.02	<0.2	0.002	<0.001	<0.001	<0.001
	UD-3-7	72.90 ~ 74.00	1.10	<0.02	<0.2	0.001	<0.001	<0.001	<0.001
	UD-3-8	78.25 ~ 79.20	0.95	<0.02	<0.2	0.014	<0.001	<0.001	<0.001
	UD-3-9	101.60 ~ 102.75	1.15	<0.02	<0.2	0.001	<0.001	<0.001	<0.001
	UD-3-10	103.55 ~ 104.38	0.83	<0.02	<0.2	0.010	<0.001	<0.001	<0.001
	UD-3-11	~ 105.20	0.82	<0.02	<0.2	0.012	<0.001	<0.001	<0.001
	UD-3-12	107.65 ~ 108.60	0.95	<0.02	<0.2	0.002	<0.001	<0.001	<0.001
	UD-3-13	112.85 ~ 115.10	2.25	<0.02	<0.2	0.002	<0.001	<0.001	<0.001
	UD-3-14	115.80 ~ 116.50	0.70	<0.02	<0.2	0.014	<0.001	<0.001	<0.001
	UD-3-15	118.00 ~ 119.15	1.15	<0.02	<0.2	<0.001	<0.001	<0.001	<0.001
	UD-3-16	127.25 ~ 128.00	0.75	<0.02	<0.2	0.010	<0.001	<0.001	<0.001
	UD-3-17	~ 128.80	0.80	<0.02	<0.2	0.003	<0.001	<0.001	<0.001
	UD-3-18	130.00 ~ 130.85	0.85	<0.02	<0.2	0.009	<0.001	<0.001	<0.001
	UD-3-19	142.50 ~ 143.05	0.55	<0.02	<0.2	0.013	<0.001	<0.001	<0.001

CORE RECOVERY (%) 0 50 100

SCALE (m) 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

APX. 3–1 Graphic Geologic Log of DDH MJPP–3

MJPP-3 (2)

Location : Mt. Upao Altitude : 245m Direction : 135° Angle : −40° Depth : 300.15m

117.25–121.80m: reddish purple colored strongly silicified porous andesite with 15% hematite dissemination. 119.15 to 119.70m; grey colored strongly silicified andesite with 10% pyrite dissemination, apparently the survivor of the oxidation which caused the conversion of pyrite to hematite.

121.80–123.30m: grey colored strongly silicified porous andesite with 7% pyrite dissemination. at 122.80 and 123.15m there are 1mm wide fine grained, white quartz veinlets.

123.30–134.95m: reddish brown colored strongly silicified porous andesite with 20% hematite dissemination.
Pyritic remnants observed at 127.5–127.8m, and 130.0–130.3m.

134.95–135.90m: grey colored strongly silicified andesite with 10% dissemination.

135.90–142.05m: reddish purple colored strongly silicified porous andesite with 15% hematite dissemination.

142.05–142.90m: dark grey colored strongly silicified porous andesite with 15% fine grained pyrite dissemination.

142.90–153.70m: reddish brown colored strongly silicified porous andesite with 20% hematite dissemination. weakly silicified zone with 20% hematite dissemination is seen at; 145.50–146.40m.

153.70–154.20m: grey colored weakly argillized andesite with 7% pyrite dissemination.

154.20–156.20m: reddish purple colored weakly argillized porous andesite with 17% disseminated hematite.

156.20–159.45m: grey colored weakly argillized andesite with 2% pyrite dissemination.

159.45–167.30m: dark reddish brown colored moderately silicified, porous andesite with 25% hematite in dissemination and in veinlets filling irregularly shaped fractures. the size of the pore ranges 0.5 to 2mm.

167.30–172.25m: reddish purple colored weakly argillized andesite with 20% hematite in dissemination and in dendritic fissure fillings.

172.25–172.95m: grey colored weakly argillized andesite with 3% very fine grained pyrite dissemination.

172.95–180.25m: red–brown colored weakly argillized porous andesite with 17% hematite in dissemination and in dendritic fissure fillings.

180.25–197.00m: reddish purple colored,strongly silicified andesite with 15% hematite in dissemination and in dendritic fissure fillings.
180.25–180.60m; grey colored strongly silicified andesite with 5% pyrite dissemination.
182.55–183.00m; similar andesite with 7% pyrite dissemination.
192.15–193.00m; similar,with 15% pyrite in fine grained dissemination and in veinlets.
195.15–195.40m; similar, with 10% pyrite dissemination.

197.00–212.20m: grey colored strongly silicified andesite with 20% very fine grained pyrite in dissemination and in veinlets(≤1mm).
Following sections are hematite zones; 201.20–201.65m, 204.70–205.80m, 208.30–208.40m, 209.37–209.55m, 209.90–210.10m, 211.0–212.15m, and 211.85–212.20m. Hematite content on average is 15% in dissemination and infilling dendritic fissures.

212.20–215.90m: dark grey colored strongly silicified andesite with 20% fine grained pyrite dissemination. rare and minute chalcopyrite(?) associates pyrite. white colored, 1–8mm wide irregular quartz veins are dominant in the section.

215.90–226.85m: dark grey colored strongly silicified porous andesite with 20% very fine grained pyrite dissemination.
Followings are hematite zones; 215.90–216.40m., and 216.90–217.20m contain 15% hematite dissemination. At 224.50m, and 225.05m, there are 30mm, and 10mm wide hematite stained blocks enclosed by 1mm wide white rims composed of quartz.

226.85–235.35m: dark grey colored strongly silicified andesite with 10% very fine grained pyrite dissemination. rare, minute chalcopyrite may exist in the section. At 233.80m there are abundant epidote replacing plagioclase phenocrysts. There are 30–40mm wide quartz network zones in every 20cm of core length.

235.35–244.10m: dark grey colored strongly silicified porphyritic andesite with 7% very fine grained pyrite dissemination.

244.10–251.30m: grey colored strongly silicified porous andesite with 5% very fine grained pyrite in dissemination. 5–40mm sized breccia predominate in the section;these might be formed by an autobrecciation process. epidote replacing plagioclase seen ubiquitous, 20cm section around 249.75m has particularly abundant epidote.

251.30–256.10m: grey colored,strongly silicified porous andesite with 7% pyrite in dissemination and in veinlets.

256.10–258.40m: grey colored clay zone with 5% pyrite.

258.40–267.80m: light grey colored strongly silicified porphyritic andesite with 7% pyrite in spotty dissemination. epidote still ubiquitous replacing plagioclase phenos and filling minute, discontinuous cracks.

267.80–272.25m: dark grey colored strongly silicified andesite with 15% very fine grained pyrite dissemination. minute and rare chalcopyrite(?) may exist in the section. 5mm wide quartz veinlets are seen at; 271.55m, 272.0m, and 272.60m..

272.75–295.00m: grey colored clay zone with 5% pyrite.

295.00–296.60m: dark grey colored strongly silicified porous andesite with 15% very fine grained pyrite in dissemination. At 295.0–295.40m, there are five quartz veinlets with 2 to 5mm widths.

296.60–300.15m(End of Hole) grey colored clay zone with 5% pyrite. 10cm long core of silicified porous andesite recovered at near the end of the hole.

Sample No.	Depth (m)	Width (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (%)	Zn (%)	Mo (%)
UD-3-20	160.20 ~ 161.30	1.10	0.17	<0.2	0.007	<0.001	<0.001	<0.001
UD-3-21	~ 162.60	1.30	0.32	<0.2	0.002	<0.001	<0.001	<0.001
UD-3-22	165.40 ~ 166.60	1.20	0.09	<0.2	0.004	<0.001	<0.001	<0.001
UD-3-23	~ 167.50	0.90	0.03	<0.2	0.001	<0.001	<0.001	<0.001
UD-3-24	175.70 ~ 176.75	1.05	<0.02	<0.2	0.002	<0.001	<0.001	<0.001
UD-3-25	180.00 ~ 180.60	0.60	<0.02	<0.2	0.037	<0.001	<0.001	<0.001
UD-3-26	~ 181.80	1.20	0.06	<0.2	0.002	<0.001	<0.001	<0.001
UD-3-27	186.00 ~ 187.20	1.20	<0.02	<0.2	<0.001	<0.001	<0.001	<0.001
UD-3-28	192.15 ~ 193.00	0.85	<0.02	<0.2	0.015	<0.001	<0.001	<0.001
UD-3-29	197.00 ~ 197.80	0.80	<0.02	<0.2	0.031	<0.001	<0.001	<0.001
UD-3-30	199.00 ~ 200.00	1.00	<0.02	<0.2	0.026	<0.001	<0.001	<0.001
UD-3-31	204.70 ~ 205.80	1.10	<0.02	<0.2	0.004	<0.001	<0.001	<0.001
UD-3-32	208.70 ~ 209.37	0.67	<0.02	<0.2	0.021	<0.001	<0.001	<0.001
UD-3-33	213.40 ~ 214.60	1.20	<0.02	<0.2	0.020	<0.001	<0.001	<0.001
UD-3-34	215.90 ~ 216.90	1.00	<0.02	<0.2	0.027	<0.001	<0.001	<0.001
UD-3-35	219.90 ~ 221.00	1.10	<0.02	<0.2	0.041	<0.001	<0.001	<0.001
UD-3-36	224.85 ~ 226.05	1.20	<0.02	<0.2	0.047	<0.001	<0.001	<0.001
UD-3-37	232.60 ~ 234.00	1.40	<0.02	<0.2	0.010	<0.001	<0.001	<0.001
UD-3-38	~ 234.90	0.90	<0.02	<0.2	0.012	<0.001	<0.001	<0.001
UD-3-39	244.10 ~ 245.15	1.05	<0.02	<0.2	0.010	<0.001	<0.001	<0.001
UD-3-40	253.10 ~ 254.20	1.10	<0.02	<0.2	0.040	<0.001	0.095	<0.001
UD-3-41	256.10 ~ 258.40	2.30	<0.02	<0.2	0.012	<0.001	0.002	<0.001
UD-3-42	267.60 ~ 268.80	1.20	<0.02	<0.2	0.007	<0.001	<0.001	<0.001
UD-3-43	271.55 ~ 272.75	1.20	<0.02	<0.2	0.008	<0.001	<0.001	<0.001
X R D	UD-3.279.00m							
UD-3-44	278.20 ~ 279.20	1.00	<0.02	<0.2	0.012	<0.001	<0.001	<0.001
UD-3-45	~ 280.20	1.00	<0.02	<0.2	0.014	<0.001	<0.001	<0.001
UD-3-46	287.50 ~ 288.50	1.00	<0.02	<0.2	0.011	<0.001	<0.001	<0.001
UD-3-47	293.80 ~ 295.00	1.20	<0.02	<0.2	0.013	<0.001	<0.001	<0.001
UD-3-48	~ 296.20	1.20	<0.02	<0.2	0.003	<0.001	<0.001	<0.001
X R D	UD-3.298.00m							
UD-3-49	298.00 ~ 300.15	2.15	<0.02	<0.2	0.012	<0.001	<0.001	<0.001

APX. 3–2 Graphic Geologic Log of DDH MJPP–3

MJPP-4 (1)

Location : Madarag Altitude : 208 m Direction : 165° Angle : −40° Depth : 150 m

DEPTH AND CORE ANGLE (m) (°)	DESCRIPTION
	0.00-14.50m: brown colored soil, and talus deposits.
14.50	14.50-16.10m: red-purple colored argillized and silicified andesite associating 1-2mm wide hematite veins.
16.10	
16.20	
17.00	16.10-17.00m: specularite bearing dark reddish brown colored strongly silicified andesite. Silicified part has porous texture. At 16.20m: 15-20mm wide milky white quartz vein.
	17.00-24.45m: grey-purple colored strongly silicified andesite with spotted specular hematite. Numerous irregular cracks filled by milky white clay are developed, hence the core are badly broken.
24.45	
25.35	24.45-25.35m: red-purple colored strongly argillized zone with abundant hematite. Some specularite can be seen in the section.
	25.35-33.55m: dark grey colored strongly silicified zone with abundant hematite in network and in patch. Hematite rich portion are softer due to the associating clay.
33.55	33.55-37.65m: similar to the above but without hematite network. Minor specular hematite visible in the section.
37.65	37.65-51.05m: greenish grey colored weakly argillized andesite with 3% pyrite dissemination associating few patchy silicification. The core in the section are badly fractured and broken due to extensively developed irregular fracture/crack system which contain white clay. Slickensids also visible. Strongly argillized and fractured zones are; 38.20-38.80m
38.20	
38.80	
40.70	40.70-41.30m
41.30	
	51.05-52.23m: greenish grey colored strongly silicified very fine grained andesite containing 8% pyrite.
	52.23-61.98m: greenish grey colored weakly argillized and locally silicified fine grained andesite with 5% pyrite dissemination.
51.05	
52.23	At 60.87m, there is a 5mm wide quartz vein, both walls of it are composed by 1mm wide massive pyrite.
	51.05-61.98m could be classified as tuff.
	61.98-64.38m: grey andesite with 5% pyrite dissemination.
	64.38-66.78m: dark grey colored moderately to strongly silicified andesite with pyrite in veins(1-5mm) and irregularly shaped patches. Overall content of pyrite; 8%.
∠85°	
60.87	
61.98	The frequency of pyrite vein is 1 to 2 per every 10cm. Pyrite veins are frequently dislocated 3mm to 30mm by diagonal dry fractures.
64.38	
	66.78-79.10m: grey colored andesite with 5% pyrite. The core recovery from 61.98m on is excellent(95-100%).
66.78	
	79.10-81.30m: dark grey colored mod. to strongly silicified andesite with 1-2mm pyrite veins. Also contains 7% disseminated pyrite. Strongly silicified portions are porous (max.1mm diameter).
79.10	81.30-82.55m: grey colored andesite with 5% pyrite impregnation. No trace of silicification in the section.
81.30	
82.55	82.55-83.20m: dark grey colored moderately silicified andesite with 2-5mm wide pyrite veins(3 veins /every 10cm) and 8% pyrite impregnation.
83.20	83.20-91.70m: bluish grey colored andesite with 3% pyrite dissemination and very fine grained black pyrite bearing quartz vein(5mm) together with 3mm wide irregularly oriented pyrite veinlets. 3-slicken sided white clay bearing joints/cracks per every 1m interval can be seen.
	91.70-97.75m: bluish grey colored strongly silicified porous andesite. the diametre of the largest pore is 2mm. 8% pyrite dissemination and 10 to 15-irregularly oriented pyrite venlets(1-5mm wide) per every 1metre section.
91.70	
	97.75-98.50m: strongly silicified andesite with 10% pyrite dissemination. there are many 1-6mm wide pyrite-quartz veinlets subparallel to the drill axis.
	98.50-114.10m: bluish grey colored strongly silicified andesite with 8% pyrite dissemination. there exist 1-3mm wide pyrite veinlets(10 veinlets per metre core). Slicken sided white clay filling in the joints/cracks are seen frequently (5/metre core).
97.75	
98.50	
	114.10-114.40m: 20mm wide undulating strongly silicified zone observed in brecciated andesite.the size of the breccia is 5-20mm with 7% pyrite.
	114.40-122.00m: bluish grey colored andesite with 5% pyrite dissemination.
	122.00-124.42m: moderately silicified andesite with 7% pyrite dissemination.
	123.19-123.55m: bluish grey clay bearing strongly fracture zone.
	124.42-132.00m: bluish-greenish grey colored moderately argillized/weakly silicified and chloritized andesite with 3-5% pyrite. the core in the section is badly fractured accompanying frequent occurrence of slickensides.
114.10	
114.40	
	131.25-131.35m; minute magnetite bearing strongly silicified, dark green colored fine grained andesite.
	132.00-135.50m: green-grey colored chloritized, and weakly argillized andesite with 3-4% pyrite. no magnetite in the section. at 134.20m there is a 7-8mm wide white quartz veinlet which stands at 10 degrees to the core axis.
122.00	
123.19	135.50-139.80m: greenish grey colored strongly argillized andesite with 2-3% pyrite dissemination. no magnetite in the section.
123.55	
124.42	
	139.80-143.60m: dark greeninh grey colored moderately silicified porphyritic andesite with very fine grained pyritic veinlets of filmy to 5mm wide which occurrence is 5 vits per every 1m core length. Magnetite occurs as 1mm wide veinlets(5 veinlets/meter) and spots/patches replacing mafic with chlorite and pyrite. 5% magnetite and 3% pyrite dissemination throughout the section. also filmy to 2mm wide quartz veinlets can be seen (4 vits/meter).
132.00	
∠10°	
134.20	
135.50	143.60-145.30m: greenish grey colored moderately argillized porphyritic andesite with 5% pyrite. no magnetite in the section. there are ubiquitous cracks/fractures standing at 7 degrees to the core axis, hence the core are badly broken.
139.80	
	145.30-165.75m: greenish grey colored moderately silicified andesite with local weakly argillized zones. 1% pyrite, and patchy(20mm) and/or spotty magnetite occupies 5% of the total volume. Argillized parts do not contain magnetite, probably being replaced by hematite. Also occurs filmy to 5mm wide quartz veinlets(10 vlets/meter) throughout the section.
143.60	
145.30	

ALTERATION AND MINERALIZATION: Silic, Qz-V, Arg, Sid

POSITION OF EXAMINED CORE SAMPLES	Sample No.	Depth (m)	Width (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (%)	Zn (%)	Mo (%)
	MD-4-1	16.10 ~ 17.00	0.90	0.92	1.4	0.006	0.004	<0.001	0.002
	MD-4-2	33.55 ~ 34.30	0.75	0.13	0.4	0.008	0.002	<0.001	0.003
	MD-4-3	51.05 ~ 52.23	1.18	0.03	0.3	0.11	<0.001	0.034	0.001
	MD-4-4	60.50 ~ 61.15	0.65	0.02	0.6	0.16	<0.001	0.085	<0.001
P S	MD-4, 060.87m								
	MD-4-5	64.38 ~ 65.60	1.22	0.04	0.7	0.15	0.001	0.001	0.001
	MD-4-6	~ 66.78	1.18	0.02	0.3	0.17	0.002	0.001	0.001
P S	MD-4, 064.73m								
	MD-4-7	79.10 ~ 80.15	1.05	0.03	0.4	0.12	0.001	0.001	<0.001
	MD-4-8	82.35 ~ 83.20	0.85	0.01	0.5	0.15	0.001	0.001	<0.001
	MD-4-9	92.35 ~ 93.55	1.20	0.03	1.3	0.16	0.002	0.002	0.002
	MD-4-10	106.55 ~ 107.60	1.05	0.02	<0.2	0.24	0.007	0.001	0.001
	MD-4-11	114.10 ~ 114.40	0.30	0.01	<0.2	0.12	0.008	0.001	<0.001
	MD-4-12	122.00 ~ 123.19	1.19	0.12	<0.2	0.19	0.002	0.002	<0.001
X R D	MD-4, 126.30 m								
	MD-4-13	140.68 ~ 141.80	1.12	0.01	<0.2	0.04	<0.001	0.009	<0.001
	MD-4-14	145.30 ~ 146.40	1.10	0.01	<0.2	0.04	<0.001	0.008	<0.001
	MD-4-15	~ 147.40	1.00	0.01	<0.2	0.04	<0.001	0.008	<0.001

CORE RECOVERY (%): 0, 50, 100

SCALE (m): 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150

APX. 4−1 Graphic Geologic Log of DDH MJPP−4

MJPP-4 (2)

Location : Madarag Altitude : 208 m Direction : 165° Angle : −40° Depth : 300 m

DEPTH AND CORE ANGLE (m) (°)	DESCRIPTION
	165.75-167.40m: dark greenish grey colored weakly argillized andesite with 5% pyrite. No magnetite in the section. 167.40-169.52m: dark greenish grey colored moderately silicified porphyritic andesite with only 1% pyrite, and 5% magnetite dissemination. 169.52m-172.30m: weakly argillized fine grained andesite with 5% pyrite. No magnetite in this section probably replaced to hematite by argillization. 169.52-170.50m, and 172.50-172.30m; badly fractured due to the existence of clay in the fractures. 172.30-172.60m: only grey colored clay recovered. 172.60-175.60m: dark greenish grey weakly argillized andesite with 5% pyrite.
165.75	
167.40	172.75-173.0m; light green colored strongly silicified biotite quartz feldspar porphyry. there are two quartz veinlets at;173.85m and 174.42m with up to 8mm width. badly fractured core recovered from; 172.60-172.75m section.
169.52	
172.30	175.60-179.75m: light green colored strongly silicified biotite quartz feldspar porphyry. biotite phenocryste are altered to chlorite and minute magnetite. no pyrite observed in the section. mafic may originally contain minor amphibole. at 175.60m, there is a quartz vein(10-30mm wide) that contains pinkish brown colored mineral.
172.60	
175.60	
179.75	179.75-191.18m: greenish grey colored andesite with local silicification and 2% pyrite dissemination throughout. also very fine grained pyrite replacing mafic phenos occur together with 4% spotty magnetite.
∠10° 183.78	at 187.55m; 5mm wide light grey colored quartz veinlet(contains 3% pyrite).
185.53	
185.87	at 189.43m; 28mm wide white clay-quartz vein composed of network of 2-5mm veinlets, quartz occupy 30% of the volume.
187.55	
∠40° 189.43	at 183.78m; 2mm wide fine grained pyritic veinlet standing at 10 degrees to the core axis. also at 190.10m; 5-7mm wide black fine grained pyrite vein standing at 62 deg to core axis.
190.10	
∠62° 191.78	
192.20	183.78-184.99m; max 10mm wide epidote veins (3-zones) which are cut by 2-3mm wide quartz veinlets. epidote rich part does not contain magnetite.
196.02	185.53-185.87m; grey strongly argillized, fractured zone. 191.18-192.20m: sheared zone with 5% pyrite dissemination.
203.19	192.20-196.02m: dark grey colored strongly argillized brittle andesite with 10% pyrite dissemination throughout. Also there are localized silicified parts where minor magnetite occur.
208.07	196.02-203.19m: light greenish grey colored andesite with 3% pyrite and 3% magnetite dissemination. 203.19-208.07m: dark grey colored strongly silicified andesite with 3% pyrite and 10% magnetite(in spots and in veinlets). Magnetitic spots also contain fine grained pyrite. There are numerous hair-line fractures that might contain clay hence the core in the section is badly fractured angularly.
211.25	
211.66	
212.13	208.07-212.13m: grey colored weakly argillized andesite with 10% pyrite dissemination. there are no magnetite in the section. 211.25-211.66m; there is a 12mm wide free quartz in the middle and the both sides are badly sheared and argillized.
∠46° 219.90	
220.38	212.13-226.68m: silicified and argillized andesite with 7% pyrite. no magnetite observed. 219.90-220.38m; strongly argillized and sheared zone. the orientation of the shear structure stands at 46 degrees to core axis.
226.68	226.68-229.61m: grey colored strongly argillized, brittle andesite with 10% pyrite dissemination and no magnetite. Numerous hair line cracks developed hence the core can easily be broken. At 227.70m there is a 20mm wide black muddy sheared zone standing at 43 degrees to core axis.
229.61	
230.00	229.61-230.00m: black brittle and sheared mudstone like rock standing at 52 degrees to the core axis. the rock contains 5% visible pyrite and abundant microscopic pyrite which appears black.
231.40	230.00-231.40m: similar to 226.68-229.61m.
233.00	231.40-246.23m: greenish grey colored weakly argillized andesite with 6% pyrite dissemination throughout the section. No magnetite observed. 10mm wide quartz vein occurs at 233.00m.
235.45	
236.30	235.45-236.30m, and 244.20-246.23m; strongly argillized and badly fractured zones frequently displaying slickenside structures.
244.20	
246.23	246.23-257.20m: greenish grey colored alternating rocks composed of; weakly silicified and strongly argillized andesite with 3% pyrite dissemination. minor magnetite exist only in silicified portion of the section. argillized portions are strongly sheared and badly fractured often displaying slickensides. 14mm wide white fine grained quartz vein observed at 249.70m standing at 64 degrees to the core axis.
249.70	
257.20	257.20-275.00m: dark greenish grey colored strongly argillized andesite with 3% very fine grained pyrite dissemination. irregular hair line cracks developed hence core tends to break easily. 3-minute quartz veinlets(1mm wide) occur every one meter core length. At 271.40m minor chalcopyrite observed.
258.30	
262.30	
263.50	
265.30	
271.40	
273.80	275.00-278.58m: grey colored weakly argillized andesite with 7% pyrite dissemination/veinlets. 5-minute(1mm) quartz veinlets/ meter core observed. 278.58m-281.85m: light green colored very fine grained strongly chloritized andesite with very minor pyrite.
275.00	
278.58	
281.85	281.85-284.70m: greenish grey colored weakly argillized andesite with 8% pyrite dissemination.
284.70	284.70-287.00m: grey colored strongly argillized and sheared andesite with 5% pyrite dissemination.
287.00	287.00-288.90m: greenish grey colored strongly chloritized andesite with 5% pyrite dissemination.
288.90	288.90-290.50m: greenish grey colored strongly chloritized, weakly silicified andesite with very fine grained pyrite dissemination(3%). magnetite observed sporadically, some portion contains up to 8% magnetite.
290.50	
293.25	290.50-300.00m: greenish grey colored strongly chloritized porphyritic andesite with 2% pyrite dissemination. Following sections are strongly silicified and contain up to 8% magnetite; 293.25-294.60m and 294.90-295.60m.
294.60	
294.90	
295.60	
m 300.00	

ASSAY RESULTS	Sample No.	Depth (m)	Width (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (%)	Zn (%)	Mo (%)
	MD-4-18	163.85 ~ 164.85	1.00	0.03	0.4	0.067	0.001	0.010	<0.001
	MD-4-16	167.40 ~ 168.40	1.00	0.02	<0.2	0.044	0.001	0.011	<0.001
	MD-4-17	176.82 ~ 176.97	0.15	<0.01	<0.2	0.003	0.001	0.003	<0.001
	MD-4-19	183.78 ~ 184.99	1.21	0.01	0.3	0.055	0.001	0.012	<0.001
	MD-4-20	193.68 ~ 194.70	1.02	0.03	0.6	0.066	0.015	0.039	0.001
	MD-4-21	203.19 ~ 204.03	0.84	0.11	0.6	0.320	0.001	0.014	0.001
	MD-4-22	211.23 ~ 213.42	1.49	0.03	0.4	0.160	0.001	0.010	0.001
	MD-4-23	246.23 ~ 247.18	0.95	0.03	0.5	0.100	0.001	0.020	0.001
	MD-4-26	260.98 ~ 262.04	1.06	0.02	0.3	0.120	0.001	0.026	0.001
XRD	MD-4, 267.80 m								
	MD-4-24	272.65 ~ 273.80	1.15	0.04	0.4	0.160	0.002	0.023	0.001
	MD-4-25	288.05 ~ 288.27	0.22	0.03	0.3	0.068	0.002	0.012	0.001
	MD-4-27	289.28 ~ 289.90	0.62	0.03	0.3	0.140	0.001	0.015	0.001
	MD-4-28	294.90 ~ 295.60	0.70	0.02	0.6	0.130	0.001	0.031	0.002
	MD-4-29	298.70 ~ 299.20	0.50	0.01	0.2	0.043	0.001	0.019	<0.001

CORE RECOVERY (%) 0 50 100

APX. 4-2 Graphic Geologic Log of DDH MJPP-4

MJPP – 5 (1)

Location : Madarag Altitude : 208 m Direction : 210° Angle : −40° Depth : 150 m

0–13.85m: talus deposit; hematite stained andesite boulder/pebble bearing brown colored soil/clay.

13.85–15.00m: reddish purple colored weakly silicified andesite with 25% hematite in dissemination and in 0.5–2mm wide veinlets.

15.00–21.25m: reddish purple colored moderately argillized and silicified andesite with 15% hematite in dissem. and in veinlets, buff colored fine grained strongly silicified zone(vein) is seen at 18.35m to 18.65m(30cm wide) in which there are abundant irregular cracks filled with white clay (kaolinite?).

21.25–23.10m: grey colored weakly silicified andesite with 7% disseminated pyrite. Hematite occur only in fissures at 22.40m(10mm wide) and 22.50m(2mm wide).

23.10–25.07m: purplish grey colored moderately silicified porous, brecciated andesite with less than 1% pyrite and 5% hematite in dendritic cracks.

25.07–32.85m: light grey colored strongly silicified fine grained andesite with very minor pyrite. hematite(5%) is seen only in dendritic cracks/fissures. 26.90–27.75m: porous andesite that has pyrite in the periphery of the pores which may amount to 2% of the total volume.

32.85–37.45m: grey colored moderately silicified,auto-brecciated andesite with 7% pyrite dissemination. Irregular 0.5 to 2mm wide network of cracks filled with white clay are ubiquitous in the section.

37.45–41.70m: purplish grey colored porous argillized andesite with 1% pyrite dissemination and specular hematite in wavy bands. Pores are also filled with specularite.
Overall content of hematite is ca.20%.

41.70–46.25m: grey colored strongly silicified andesite with 10% pyrite in dissemination and in less than 1mm wide veinlets. minor specks of chalcopyrite is seen at 42.35–46.20m section.

46.25–47.00m: grey colored strongly argillized andesite with 5% very fine grained pyrite.

47.00–53.90m: grey colored strongly silicified andesite with 8% pyrite in dissemination and 0.5mm to 8mm wide veinlets. At 51.80m and 52.90m there are quartz veins; the former being 7mm wide porous quartz vein standing at 27 degrees to the core axis, the former standing at 58 degrees to the core axis and has 10mm width with disseminated pyrite hence showing dark grey color. 10 to 15mm diameter anhydrite aggregates with blue and greenish tints are observed sporadically.

53.90–58.75m: grey colored weakly argillized andesite with 5% pyrite dissemination. There are abundant irregular cracks accompanied by frequent slickenside hence the core tend to crumble easily.

58.75–59.20m: light grey colored strongly silicified andesite with 7% pyrite dissemination accompanying very minute and rare chalcopyrite.

59.20–62.55m: dark grey colored weakly argillized andesite with 5% pyrite in dissemination and in veinlets.

62.55–78.25m: light grey colored strongly silicified fine grained andesite with 8% pyrite dissemination. minor chalcopyrite at around 65.0m. Minor magnetite detected at 74.95 to 75.30m section.

78.25–86.65m: Similar strongly silicified andesite as above with 7–10% pyrite in dissemination and in patchy concentration..
Sporadic chalcocite, bornite and possible cuprite specks are noted. At 79.0m lone chalcopyrite speck in pyrite concentrated patch.

86.65–88.50m: grey colored strongly silicified, brecciated andesite with 7% overall pyrite in dissemination and in 5mm diameter patches.

88.50–92.60m: grey colored strongly silicified andesite with 5% pyrite dissemination throughout. at 91.45–92.60m; possible minute chalcocite(?) spots can be observed.

92.60–95.00m: dark grey colored strongly argillized andesite with 5% pyrite dissemination. the breccia contained in the clay are all consisted of strongly silicified andesite.

95.00–106.60m: grey colored strongly silicified andesite with 5–7% pyrite in dissemination and in 0.5–1mm wide veinlets. minute black possible chalcocite spots are observed in the section.

106.60–109.10m: grey colored weakly argillized andesite with 8% pyrite in dissemination and in 0.5–2mm wide veinlets. Joints/fractures standing at 40–50 degrees to the core axis predominate and they are filled with white clay(kaolinite).

109.10–113.30m: grey colored strongly silicified andesite with 5% pyrite dissemination. very rare minute chalcocite spots are still visible in the section.

113.30–114.50m: dark grey colored weakly argillized andesite with 10% pyrite in dissemination and in 1–5mm wide veinlets. 3–sheared fractures filled with pyrite which stand at 10 degrees to the core axis observed in the section.

114.50–133.00m: grey colored strongly silicified andesite with 5 to 10% pyrite in dissemination and in 5–10mm wide veinlets. Minor chalcocite specks are visible throughout the section.
Pyrite filling dendritic fractures can be seen at 118.0–121.0m.

133.00–150.60m: grey colored strongly silicified andesite with 15–18% pyrite in dissemination and in less than 1mm wide veinlets. Minor chalcocite specks observed throughout the section.
At 147.80–148.80m; two chalcopyrite specks observed. At 148.40 to 148.50m there is a coarser grained 20mm wide pyrite vein cutting much finer grained pyrite bearing quartz vein(black vein).

150.60–155.80m: dark grey colored weakly argillized andesite with 15% pyrite dissemination. very minor chalcopyrite specks occur sporadically.

Sample No.	Depth (m)	Width (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (%)	Zn (%)	Mo (%)
MD-5-1	18.05 ~ 18.65	0.60	0.03	1.1	0.005	0.001	<0.001	<0.001
MD-5-2	~ 20.00	1.35	0.03	1.0	0.049	0.005	0.002	0.001
MD-5-3	~ 20.85	0.85	<0.02	0.6	0.011	<0.001	<0.001	<0.001
MD-5-4	21.83 ~ 23.20	1.37	0.06	2.0	0.250	0.001	0.001	0.002
MD-5-5	24.50 ~ 25.07	0.57	0.03	0.3	0.006	0.001	<0.001	0.001
MD-5-6	~ 25.70	0.63	0.05	1.7	0.012	0.001	<0.001	0.001
MD-5-7	26.99 ~ 27.75	0.85	0.10	0.5	0.049	0.001	<0.001	0.002
MD-5-8	~ 28.55	0.80	0.08	1.8	0.028	0.001	<0.001	0.004
MD-5-9	29.80 ~ 30.90	1.10	0.05	0.3	0.036	0.001	<0.001	0.001
MD-5-10	~ 31.42	0.52	0.02	0.2	0.006	0.001	<0.001	0.001
MD-5-11	34.20 ~ 35.40	1.20	0.05	0.2	0.130	0.001	<0.001	0.002
MD-5-12	38.80 ~ 39.60	0.80	0.54	0.8	0.335	0.005	<0.001	0.002
MD-5-13	40.70 ~ 41.70	1.00	0.05	1.8	0.055	0.002	<0.001	0.002
MD-5-14	42.83 ~ 43.05	0.70	0.05	0.4	0.183	0.001	0.001	0.007
MD-5-15	44.50 ~ 46.25	1.75	0.04	<0.2	0.216	<0.001	<0.001	0.003
MD-5-16	49.10 ~ 50.10	1.00	0.03	0.6	0.162	0.001	0.001	0.002
MD-5-17	51.10 ~ 52.00	0.90	0.04	0.5	0.164	0.001	0.001	0.005
MD-5-18	52.85 ~ 53.90	1.05	0.04	0.5	0.082	0.003	0.001	0.001
MD-5-19	56.10 ~ 57.10	1.00	0.0	0.2	0.064	0.001	0.001	0.004
MD-5-20	58.75 ~ 59.20	0.45	<0.02	0.2	0.021	0.001	0.001	0.002
MD-5-21	62.55 ~ 63.80	1.25	0.02	0.3	0.076	0.001	<0.001	<0.001
MD-5-22	65.00 ~ 66.00	1.00	0.03	0.2	0.058	0.004	0.001	0.001
MD-5-23	67.00 ~ 67.85	0.85	0.04	1.0	0.140	0.003	<0.001	0.001
MD-5-24	78.25 ~ 79.45	1.20	0.03	0.6	0.156	<0.001	<0.001	0.001
MD-5-25	~ 80.65	1.20	0.03	0.7	0.156	0.001	<0.001	0.007
MD-5-26	~ 81.95	1.30	0.03	0.7	0.175	0.002	<0.001	0.003
MD-5-27	~ 83.05	1.10	0.03	0.4	0.108	0.002	<0.001	<0.001
MD-5-28	85.45 ~ 86.65	1.20	0.03	0.3	0.046	0.003	<0.001	0.001
MD-5-29	~ 87.85	1.20	0.07	1.1	0.165	<0.001	<0.001	0.001
MD-5-30	~ 89.05	1.20	0.05	1.7	0.186	0.005	0.002	<0.001
MD-5-31	~ 90.05	1.00	<0.02					
MD-5-32	91.45 ~ 92.60	1.15	0.05	2.1	0.830	0.003	0.003	0.001
P S	MD-5, 092.00m							
X R D	MD-5, 094.20m							
MD-5-33	97.70 ~ 98.80	1.10	0.02	0.6	0.093	<0.001	<0.001	<0.001
MD-5-34	99.90 ~ 100.60	0.70	<0.02	0.3	0.075	0.002	0.002	0.001
MD-5-35	~ 101.60	1.00	0.06	0.5	0.100	0.003	0.001	0.001
MD-5-36	105.08 ~ 106.90	1.10	0.07	0.6	0.118	0.005	0.002	0.004
MD-5-37	110.90 ~ 112.10	1.20	0.04	<0.2	0.102	<0.001	<0.001	0.001
X R D	MD-5, 113.35m							
MD-5-38	115.70 ~ 116.90	1.20	<0.02	<0.2	0.088	0.001	0.002	0.001
MD-5-39	118.05 ~ 119.30	1.25	0.03	0.5	0.130	0.005	0.002	0.001
MD-5-40	125.55 ~ 126.95	1.40	<0.02	0.3	0.074	<0.001	0.002	0.006
MD-5-41	~ 128.15	1.20	0.02	<0.2	0.125	<0.001	0.003	0.008
MD-5-42	129.05 ~ 129.80	0.75	<0.02	<0.2	0.115	<0.001	0.002	0.007
MD-5-43	133.65 ~ 134.40	0.95	<0.02	0.2	0.104	0.001	0.002	0.002
MD-5-44	139.75 ~ 140.55	0.80	0.03	<0.2	0.092	<0.001	0.002	0.011
MD-5-45	145.00 ~ 145.95	0.95	0.04	<0.2	0.100	<0.001	0.003	0.007
MD-5-46	147.80 ~ 148.80	1.00	0.06	<0.2	0.102	0.003	0.005	0.011

APX. 5–1 Graphic Geologic Log of DDH MJPP–5

MJPP – 5 (2)

Location : Madarag　Altitude : 208 m　Direction : 210°　Angle : – 40°　Depth : 300.91m

155.80–157.50m: grey colored clay zone with 5% pyrite dissemination. No solid rock recovered from the section.

157.50–158.50m: grey colored moderately argillized andesite with 7% pyrite dissemination.

158.50–160.55m: grey colored clay zone with 5% pyrite dissemination, no solid rock contained in the section.

160.55–161.70m: dark grey colored moderately argillized andesite with 10% pyrite dissemination.

161.70–162.90m: dark grey colored moderately silicified andesite with 10% pyrite dissemination. very rare minute chalcocite specks observed.

162.90–167.05m: dark grey colored weakly argillized andesite with 10% pyrite dissemination. chalcopyrite speck observed at 163.50m.

167.05–170.05m: dark grey colored moderately argillized andesite with 8% pyrite dissemination.

170.05–176.45m: grey colored strongly argillized andesite with 5% pyrite dissemination.

176.45–177.30m: greenish grey colored moderately argillized, chloritized feldspar porphyry with 7% pyrite dissemination.

173.30–185.15m: grey colored strongly argillized andesite with 5% pyrite dissemination. 5 to 10mm sized strongly silicified rock fragments seen in the clayey matrix.

185.15–185.40m: only sludge recovered, the grain consisted of quartz.

185.40–198.90m: grey colored strongly argillized andesite with 2% pyrite. At 189.60–193.10m, and 198.10–198.90m there occur minor very fine spotty chalcocite.

198.90–202.00m: dark bluish green colored chloritized andesite with 3% pyrite in dissemination/veinlets and 15% magnetite in patchy concentration.

202.00–203.60m: light greenish grey colored chloritized, argillized andesite with 2% pyrite dissemination. No magnetite in the section.

203.60–215.50m: dark bluish green colored chloritized,weakly argillized andesite with 3% pyrite in dissemination and in 0.5mm wide veinlets. Average magnetite content is 15% in patchy concentration and/or in veinlets. At 210.80m there is 6cm core length wide network white quartz veinlets zone.

215.50–216.60m: grey colored argillized andesite with 3% pyrite in dissemination. No magnetite in the section.

216.60–227.40m: dark greenish grey colored weakly silicified andesite with 3% pyrite in dissemination and 15% magnetite in dissemination and in patchy concentration. rare and minute chalcopyrite specks occur in the section.

227.40–237.70m: light greenish grey colored weakly argillized andesite with 5% pyrite in dissemination and in veinlets. No magnetite in the section. At 235.10–235.40m; very strongly argillized zone with 5% pyrite in dissemination.

237.70–238.70m: Strongly sheared, dark grey colored clayey zone containing 5–10mm diameter sub–angular breccia. 10% disseminated pyrite seen in the clay.

238.70–243.68m: light green colored strongly silicified hornblende feldspar porphyry with 1% pyrite dissemination. Magnetite replacing hornblende phenos with chlorite is ubiquitous.

243.68–244.00m: strongly sheared zone similar to the above(237.7–238.7m) with 20% in dissemination.

244.00–266.45m: greenish grey colored chloritized, argillized andesite with 3 to 5% pyrite in dissemination and in veinlets. no magnetite in the section. 3 to 12mm wide white quartz veinlets are seen at; 246.72m, 246.85m, 248.05m, 249.10m, 252.0m, 253.2m, 256.8m, and 266.1m. 252.45–252.90m; strongly argillized, possibly sheared zone with 7% pyrite dissemination.

266.45–282.30m: greenish grey colored moderately silicified porphyritic andesite with 1% pyrite dissemination and 10% magnetite. Minute specks of chalcopyrite seen rather abundantly at; 277.75–278.30m. minor amount of chalcopyrite can be observed throughout the section together with minor chalcocite(?) specks. up to 0.5mm wide quartz veinlet occurs in every 5cm core length. At 278.40m there is 8mm wide quartz vein containing pinkish red colored mineral.

282.30–284.05m: dark greenish grey colored moderately silicified fine grained andesite with 1% pyrite in dissemination and 10% magnetite in dissemination/ patchy concentration. very minor chalcocite(?) seen throughout the section. 0.5 to 3mm wide white quartz vein can be seen in every 5cm of core length.

284.05–290.35m: greenish grey colored weakly silicified porphyritic andesite with 1% pyrite in dissemination, and 10% magnetite. very fine grained minor chalcopyrite(?) occurs in the section.

290.35–294.85m: greenish grey colored chloritized, argillized andesite with 5% pyrite in dissemination. no magnetite in the section. minute and minor chalcocite specks at 293.05m. quartz veins are seen at; 292.5m(2mm wide,contains lone minute chalcopyrite),292.75m(12mm wide), 293.0m(10mm wide), and 294.6m(7mm wide).

294.85–300.91m(End of the Hole): greenish grey colored moderately silicified porphyritic andesite with 5% pyrite and 5% magnetite in dissemination. rare and minute chalcocite and chalcopyrite specks seen in the section. quartz veins associating epidote concentration at the periphery of the veins are seen at; 297.2m(12mm wide), 297.25m(10mm wide), and 299.35m(10mm wide).

Sample No.	Depth (m)	Width (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (%)	Zn (%)	Mo (%)
MD-5-47	150.80 ~ 151.55	0.75	0.07	0.3	0.097	0.001	0.185	0.002
MD-5-48	153.20 ~ 154.60	1.40	0.05	<0.2	0.097	<0.001	0.022	0.005
XRD	MD-5. 156.00m							
MD-5-49	155.80 ~ 157.50	1.70	0.04	0.4	0.244	0.003	0.019	<0.001
MD-5-50	161.70 ~ 162.90	1.20	0.08	<0.2	0.035	<0.001	0.001	0.005
MD-5-51	~ 163.80	0.90	0.18	0.3	0.106	<0.001	0.002	0.011
MD-5-52	166.20 ~ 167.05	0.85	0.03	<0.2	0.076	<0.001	0.020	0.00
XRD	MD-5. 168.90m							
MD-5-53	171.25 ~ 172.45	1.20	0.04	0.3	0.244	0.001	0.019	0.002
MD-5-54	176.45 ~ 177.30	0.85	0.02	1.5	0.392	<0.001	0.018	<0.001
MD-5-55	189.60 ~ 191.60	2.00	0.05	0.4	0.398	0.004	0.007	0.001
MD-5-56	~ 193.10	1.50	0.04	0.4	0.326	0.003	0.011	<0.001
MD-5-57	198.10 ~ 199.90	0.80	0.04	0.5	0.302	0.004	0.012	<0.001
MD-5-58	~ 200.70	1.80	0.04	0.8	0.365	<0.001	<0.001	<0.001
MD-5-59	~ 201.90	1.20	0.05	0.5	0.394	<0.001	0.009	<0.001
MD-5-60	202.85 ~ 203.75	0.90	0.05	0.6	0.470	<0.001	0.009	<0.001
MD-5-61	204.18 ~ 205.35	1.20	0.06	0.9	0.427	<0.001	0.007	<0.001
MD-5-62	~ 206.55	1.20	0.06	1.0	0.422	<0.001	0.008	<0.001
TS	MD-5. 209.72m							
MD-5-63	209.60 ~ 210.37	0.77	0.04	0.9	0.430	<0.001	0.008	<0.001
MD-5-64	~ 211.25	0.88	0.03	0.4	0.287	<0.001	0.011	<0.001
MD-5-65	218.40 ~ 219.28	0.88	<0.02	0.5	0.333	<0.001	0.020	<0.001
TS・FI	MD-5. 219.25m							
MD-5-66	221.95 ~ 223.00	1.05	0.03	0.5	0.320	<0.001	0.015	<0.001
MD-5-67	226.15 ~ 227.40	1.25	0.04	0.5	0.362	<0.001	0.013	<0.001
MD-5-68	~ 228.60	1.20	0.04	0.5	0.277	<0.001	0.022	<0.001
MD-5-69	235.80 ~ 237.00	1.20	0.07	0.9	0.355	0.004	0.013	<0.001
XRD	MD-5. 238.00m							
MD-5-70	239.05 ~ 240.25	1.20	<0.02	<0.2	0.006	0.004	0.009	<0.001
TS・FI	MD-5. 239.20m							
MD-5-71	250.15 ~ 251.30	1.15	0.04	<0.2	0.177	<0.001	0.004	<0.001
XRD	MD-5. 252.30m							
MD-5-72	255.00 ~ 255.78	0.78	<0.02	<0.2	0.034	<0.001	0.015	<0.001
MD-5-73	265.75 ~ 266.95	1.20	<0.02	0.3	0.048	0.002	0.013	<0.001
MD-5-74	~ 268.05	1.10	<0.02	0.4	0.065	0.008	0.025	<0.001
MD-5-75	274.05 ~ 275.25	1.20	0.02	0.2	0.051	<0.001	0.011	<0.001
MD-5-84	277.05 ~ 278.20	1.15	0.11	0.7	0.310	<0.001	0.012	<0.001
MD-5-76	~ 279.05	0.85	0.04	0.6	0.295	0.001	0.010	<0.001
MD-5-85	~ 280.10	1.05	0.03	<0.2	0.082	<0.001	0.011	<0.001
MD-5-86	~ 281.15	1.05	0.05	0.2	0.152	<0.001	0.014	<0.001
MD-5-87	~ 282.30	1.15	0.03	0.2	0.085	<0.001	0.013	<0.001
MD-5-77	~ 283.40	1.10	0.03	0.2	0.094	<0.001	0.013	<0.001
MD-5-78	~ 284.25	0.85	0.04	0.4	0.106	0.001	0.012	<0.001
MD-5-79	284.75 ~ 285.90	1.15	0.03	<0.2	0.065	<0.001	0.009	<0.001
MD-5-80	292.40 ~ 293.75	1.35	0.03	0.8	0.122	0.004	0.013	<0.001
MD-5-81	296.85 ~ 297.70	0.85	0.03	0.5	0.082	0.006	0.013	<0.001
MD-5-82	298.01 ~ 299.24	1.23	0.01	0.4	0.175	0.002	0.017	<0.001
MD-5-83	299.55 ~ 300.91	0.96	0.08	0.4	0.155	<0.001	0.010	<0.001

APX. 5–2　Graphic Geologic Log of DDH MJPP–5

MJPP-6(1)

Location : Nipa　Altitude : 31 m　Direction :　Angle : −90°　Depth : 150 m

DEPTH AND CORE ANGLE (m) (°)	DESCRIPTION
	Milky white strongly weathered & argillized dacite. Intense limonite and hematite impregnation along cracks showing black and/or red color. badly fractured core to 5.30m.
6.30	6.30-7.30m: milky white, moderately argillized(kaol) dacite.
7.30	7.30-8.60m: light grey colored weakly silicified propylite, contains up to 3% pyrite. minute drusy qtz vein around 8.40m.
8.60	8.60-17.60m: light grey colored intensely argillized quartz porphyry. Quartz phenos(1mm) visible in slimy core together with 3% pyrite dissemination. 11.55m: max 1mm qtz-v. 16.74-17.60m: drusy qtz-v(max 1mm).
17.60	17.60-19.95m: white to milky white coloured strongly argillized quartz porphyry.
19.95	contains 1mm qtz phenc and 3% pyrite. 19.95-22.20m: white, strongly argillized quartz porphyry.
22.20	22.20-28.70m: strongly argillized grey colored clayey zone. contains 2-3% pyrite.
28.70	28.70-32.60m: milky white colored strongly argillized zone. 32.60-38.60m: light brownish colored strongly argillized zone.
32.60	38.60-41.80m: white to milky white colored strongly argillized zone. 22.20m to 41.80m probably represents strongly argillized quartz porphyry.
38.60	41.80-44.70m: grey colored, weakly silicified and argillized propylite. Chlorite replacing hornblende. irregular cracks/joints developed, along them filmy thin qtz veinlets developed together with 1% py dissemination throughout the rock. 0.5mm diameter pores after plagioclase phenos ubiquitous.
41.80	44.70-47.70m: no core recovered, only slime. 1mm qtz grains and 2.5% pyrite visible in the slime.
44.70	47.70-61.70m: dark green colored propylite. the core has been fractured badly due to the development of irregular fractures/joints system. around 0.5% pyrite dissemination throughout the section.
47.70	0.5-1.0mm wide qtz-py-veinlets in irregularly shaped druses. pyroxene completely replaced by chlorite. plagioclase phenos replaced by kaolinitic clay. Although the cracks are irregularly oriented, those with 60 degrees to the core axis frequently contain 0.5mm wide quartz veinlets.
56.20	56.20-57.25m: 1-2mm drusy qtz veinlets bearing weakly silicified zone.
57.25	Dark green propylite below 52m is strongly magnetic due to existance of magnetite together with pyrite.
61.70	61.70-85.20m: dark grey-green strongly silicified porphyrite with 7x3mm chloritized amphibole and 8x3mm plagioclase phenos with 3% pyrite dissemination. cracks standing at 30 degrees to core axis predominate and the core badly fractured. lone minute Mo(?) speck at 70.0m.
63.77 ∠45°	5-quartz veins(1-10mm wide) and 1-pyrite veinlet(2mm wide) occur in the section.
66.10 ∠40°	85.20-87.60m: badly fractured clayey zone with porphyrite fragments.
74.42	the clay contains 2% pyrite. 87.60-92.25m: greenish grey colored porphyrite with 3% pyrite dissemination. Porphyrite contain 3x6mm chloritized amphibole and 4x5mm argillized white plagioclase. filmy cracks contains pyrite.
75.82 ∠45°	at 88.50m: 4-10mm wide white drusy quartz vein.
80.20 ∠40°	92.25-94.80m: greenish grey strongly silicified fine grained tuffaceous andesite with 2% pyrite.
81.40 ∠45°	94.80-106.07m: greenish grey strongly silicified porphyrite with gradually smaller amphiobole(2x5mm) and plagioclase(4x5mm) phenocrysts. Pyrite content in the section; less than 2%.
85.20	106.07-113.72m: dark greenish grey weakly silicified andesite with 3% pyrite. Occurrences of irregularly shaped magnetite patches increases
87.60	toward depth, i.e., 6% mt in 106.07-108.0m, 8% mt at 108.0-110.0m, and 10%
88.50	magnetite at 110.0-113.72m intervals respectively.
92.25	113.72-122.35m: greenish grey colored moderately silicified andesite with up to 3mm wide quartz veinlets(7 to 15 vein per one meter) which contain spotty
94.80	epidote, and 3% pyrite dissemination throughout. Detailed magnetite content are as follows: 113.72-116.0m;15%, 116.0-118.36m;5%,118.36-119.0m;15%,and also at 119.30-119.38m is a massive magnetite trending subparallel to the core axis. 119.38-122.35m; contains 5% magnetite.
106.07	122.35-123.50m: badly fractured core recovered. 10% magnetite throughout the section. 123.50-126.50m: strongly silicified andesite,contains 5 per meter of core length filmy to 2mm wide white quartz veinlets. also contains 5% pyrite and 8% magnetite.
113.72	126.50-131.80m: dark grey colored strongly fractured and silicified brittle andesite with 3% pyrite and 10% magnetite throughout. 131.80-132.57m: strongly silicified andesite.
122.35	132.57-133.16m: network of white drusy quartz veinlets. quartz content of the section; 80%. the cracks are filled with chlorite hence show greenish color. Contains 5% pyrite, but no magnetite throughout the section.
123.50	133.16-134.44m: dark grey colored strongly silicified andesite with 3% pyrite and 7% magnetite. 7-drusy quartz veinlets in the section.
126.50	134.44-137.69m: drusy quartz vein-network(qtz content; 80%) zone in greenish grey strongly silicified andesite with 5% pyrite. no magnetite in the section. fracture/cracks are filled in with chlorite.
131.80	137.69-141.46m: greenish grey moderately silicified andesite with 5% pyrite and same amount of magnetite. chloritization in the section is particularly significant.
132.57	141.46-142.25m: white drusy quartz network zone(50% quartz content) in
133.16	dark greenish grey andesite with 5% pyrite and magnetite.
134.44	142.25-146.50m: greenish grey colored moderately silicified, and strongly chloritized andesite with 5% magnetite and 5% pyrite dissemination.
137.69	146.50-147.80m: dark greenish grey colored strongly silicified andesite with numerous hair line cracks which are spaced 5-10mm interval-networks. consequently the rock is very brittle.
141.46	Also 25% magnetite and 3% pyrite
142.25	dissemination are seen throughout the section.
146.50	147.80-149.90m: greenish grey colored strongly silicified andesite with 5% pyrite dissemination but no magnetite.
147.80	149.90-152.20m: strongly argillized andesite associating modest silicification. the core in the section
149.90	are badly fractured.

POSITION OF EXAMINED CORE SAMPLES	Sample No.	Depth (m)	Width (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (%)	Zn (%)	Mo (%)
X R D	ND-6	0.00~80m							
	ND-6-7	11.55~13.10	1.55	<0.01	0.2	0.037	0.002	0.001	<0.001
	ND-6-1	16.74~17.60	0.86	<0.01	<0.2	0.017	0.002	0.002	<0.001
X R D	ND-6	38.30m							
	ND-6-2	41.80~43.00	1.20	<0.01	<0.2	0.004	<0.001	0.006	<0.001
	ND-6-3	~44.70	1.70	<0.01	<0.2	0.006	<0.001	0.009	0.001
X R D	ND-6	44.80m							
	ND-6-4	49.00~51.15	2.15	<0.01	<0.2	<0.001	0.001	0.011	<0.001
	ND-6-5	56.20~57.25	1.05	0.01	<0.2	0.005	<0.001	0.008	<0.001
	ND-6-6	59.20~59.30	0.10	<0.01	0.8	0.010	<0.001	0.008	<0.001
P S	ND-6	63.77m							
	ND-6-8	69.00~70.05	1.05	<0.01	<0.2	0.001	<0.001	0.006	<0.001
	ND-6-9	85.20~87.60	2.40	0.09	<0.2	0.001	<0.001	0.007	<0.001
P S	ND-6	88.50m							
	ND-6-10	106.18~108.00	1.82	<0.01	<0.2	0.003	<0.001	0.007	<0.001
	ND-6-11	113.72~116.00	2.28	<0.01	<0.2	0.003	<0.001	0.006	<0.001
X R D	ND-6	114.75m							
	ND-6-12	117.36~119.00	1.64	<0.01	<0.2	0.004	<0.001	0.005	<0.001
	ND-6-13	~119.93	0.93	<0.01	<0.2	0.009	<0.001	0.005	<0.001
P S	ND-6	119.35m							
	ND-6-14	124.67~125.19	0.52	<0.01	<0.2	0.004	<0.001	0.006	<0.001
	ND-6-15	134.44~136.40	1.96	<0.01	<0.2	0.002	<0.001	0.005	<0.001
	ND-6-16	~137.69	1.29	<0.01	<0.2	0.001	<0.001	0.003	<0.001
	ND-6-17	146.50~147.80	1.30	<0.01	<0.2	0.005	<0.001	0.006	0.002

APX. 6–1　Graphic Geologic Log of DDH MJPP–6

MJPP-6 (2) Location : Nipa Altitude : 31 m Direction : Angle : −90° Depth : 305.1m

SCALE (m)	GEOLOGIC COLUMN	DEPTH AND CORE ANGLE (m) (°)	DESCRIPTION	ALTERATION AND MINERALIZATION Silic Qz-V Arg Sid	POSITION OF EXAMINED CORE SAMPLES	ASSAY RESULTS Sample No.	Depth (m)	Width (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (%)	Zn (%)	Mo (%)	CORE RECOVERY 0 50 (%) 100	SCALE (m)
150		152.20	149.90-152.20m: strongly argillized andesite associating modest silicification. the core in the section are badly fractured.													150
			152.20-182.70m: greenish grey colored strongly silicified and argillized porous andesite. There are numerous irregularly oriented cracks and/or fractures, hence the core are brittle and easily be broken. 4-5% magnetite and 2% pyrite dissemination throughout. Max.5mm wide quartz vein occurs every 0.5m of core length.												
160																160
170						ND-6-18	171.90 ~ 172.90	0.90	0.07	< 0.2	0.010	< 0.001	0.004	< 0.001		170
180		182.70	182.70-188.20m: very fine grained *strongly silicified andesite* that looks like mudstone. Hair cracks/fractures occur in 25mm-spaced grid/network, hence the core is very brittle and fragile. 5% pyrite and 5% magnetite dissemination throughout the section.			ND-6-19	185.00 ~ 186.20	1.20	< 0.01	< 0.2	0.007	< 0.001	0.014	< 0.001		180
		188.20	188.20-194.10m:greenish grey colored strongly silicified andesite with 3% pyrite dissemination throughout. Magnetite can be seen only at 192.70m. 0.5-2mm wide anhydride veinlets are ubiquitous hence core are easily crumbled and fractured.			ND-6-20	191.85 ~ 192.70	0.85	< 0.01	< 0.2	0.010	< 0.001	0.011	< 0.001		
190		194.10	194.10-213.70m:greenish grey colored strongly silicified andesite with 3% pyrite dissemination. Magnetite can be seen only sporadically; at 197.20-197.45m, contains 25% magnetite in spotty aggregations. Irregular anhydride veinlets(0.5-5mm wide) are ubiquitous and the core are easily be crumbled. Mafic are chloritized and spotty epidote are seen in the section. 207.80-208.60m; lensoidal strongly silicified fine quartz(10-30mm across) masses are surrounded by anhydride masses which in turn surrounded by strongly chloritized andesite.											190
200						ND-6-21	207.70 ~ 208.60	0.90	< 0.01	< 0.2	0.003	< 0.001	0.008	< 0.001		200
		207.80 208.60														
210			213.70-222.25m:greenish grey colored silicified and argillized andesite with 3% pyrite throughout. No magnetite in the section. Anhydride veinlets are ubiquitous(0.5-2mm wide) and core tends to easily crumble. 214.20-215.10m: similar lensoid quartz(10-20mm wide) masses surcounded by anhydride seen in the section 207.8-208.6m exist. Following section contain ca.20% pyrite dissemination; 214.10-214.20m, and 215.40-215.50m. 220.90-222.25m; badly fractured core recovered.			ND-6-22	209.90 ~ 211.40	1.20	< 0.01	< 0.2	0.004	< 0.001	0.008	< 0.001		210
						ND-6-23	212.60	1.80	< 0.01	< 0.2	0.002	< 0.001	0.008	< 0.001		
		213.70 214.20 215.10				ND-6-24	214.40 ~ 215.30	0.90	< 0.01	< 0.2	0.002	< 0.001	0.007	0.001		
220		222.25														220
		223.80 ∠32°	222.25-223.80m:probably represent a fault zone, the contact at 223.80m to strongly silicified andesite below stands at 32 degrees to the core axis. Minute pyrite ubiquitous.			ND-6-25	224.00 ~ 224.85	0.85	< 0.01	< 0.2	0.009	< 0.001	0.005	< 0.001		
230		229.90	223.80-229.90m:greenish grey colored strongly silicified andesite with 2-3% pyrite dissemination. No magnetite detected. The core in the section also is very brittle and tends to crumble easily.			ND-6-26	229.90 ~ 231.20	1.30	< 0.01	< 0.2	0.010	< 0.001	0.012	< 0.001		230
		231.00 ∠55°	229.90-234.70m: dark greenish grey colored strongly silicified very fine grained andesite with 5% pyrite. 229.90-231.20m; contains 20% magnetite. Other portion contains only minor and sporadic amount of magnetite. The core in the section also very brittle and crumbly.			ND-6-27	234.70 ~ 235.90	1.20	< 0.01	< 0.2	0.001	< 0.001	0.003	< 0.001		
		234.70				ND-6-28	~ 237.10	1.20	< 0.01	< 0.2	0.001	< 0.001	0.003	< 0.001		
240		237.10	234.70-237.10m: Strongly silicified and chloritized 'quartz porphyry' like rock containing quartz phenocrysts with 1-2% pyrite dissemination and 1-2mm pyrite veinlets. The core in the section also badly fractured.														240
		242.80	237.10-242.80m: dark greenish grey colored very fine grained andesite with 3% pyrite dissemination. No magnetite in the section. the core here also be easily crumbled.			ND-6-29	242.80 ~ 243.73	0.93	0.01	< 0.2	0.001	< 0.001	0.004	< 0.001		
		245.40	242.80-245.40m:greenish grey colored strongly silicified andesite with 3% spotty fine grained pyrite which accompany minute rare chalcopyrite. Pink colored portion consisted of ankerite(?) particularly abundant at 242.90m. Anhydride veinlets predominates hence the core tends to crumble easily.			XRD	ND-6, 242.95m									
250		252.35				ND-6-30	252.35 ~ 254.20	1.85	< 0.01	< 0.2	0.004	< 0.001	0.011	< 0.001		250
		255.15	245.40-252.35m: greenish grey fine grained andesite with 3% dissemination. No magnetite detected in the section. the core here also very crumbly due to anhydride in irregularly oriented hair line cracks.													
260			252.35-255.15m: dark greenish grey colored fine grained andesite with pink colored mineral and 2% pyrite dissemination.No magnetite detected in the section. the core throughout the section is badly fractured.			ND-6-31	264.40 ~ 263.70	1.30	< 0.01	< 0.2	0.001	< 0.001	0.003	< 0.001		260
			251.15-286.45m: light greenish grey colored strongly silicified fine grained andesite with 2.5% pyrite dissemination. Irregular fractures filled by anhydride(less than 0.5mm) are abundant and hence the core in the section very brittle and crumbly.													
270																270
280						ND-6-32	282.40 ~ 283.35	0.95	< 0.01	< 0.2	0.003	< 0.001	0.007	< 0.001		280
		286.45	286.45-305.10m(End of the Hole): dark greenish grey colored strongly silicified and chloritized andesite with 5% pyrite dissemination. Magnetite content in the section is not significant, though the following sections contain significant amount of magnetite: 290.05-291.40m; 5% magnetite, and 302.50-305.10m; 10% disseminated magnetite. Chalcopyrite can be seen sporadically at; 290.05-291.40m section. At 302.60m there is a 20mm wide pinkish white colored quartz veinlet which stands at 15 degrees to the core axis. There are abundant anhydride veinlets(less than 0.5mm wide) throughout the section hence the core tends to crumble easily and very brittle.													
290						ND-6-33	290.05 ~ 291.40	1.35	< 0.02	< 0.2	0.017	< 0.001	0.009	< 0.001		290
300		∠15° 302.60														300
		m 305.10				ND-6-34	302.50 ~ 305.10	2.60	< 0.02	< 0.2	0.014	< 0.001	0.007	< 0.001		

APX. 6–2 Graphic Geologic Log of DDH MJPP–6

UT-1

APX. 7–1–1 Results of Chemical Analyses

Ser. No.	Sample No.	Au ppb	Ag ppm	As ppm	Fe %	Cu ppm	Mn ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm
1	UT-1,000m	7	<0.2	54	13.50	59	<5	20	3	7	1.2	16.0	3
2	UT-1,005m	7	<0.2	20	2.30	12	<5	10	4	21	1.2	6.0	1
3	UT-1,010m	13	<0.2	14	10.50	52	<5	10	5	15	0.8	1.8	2
4	UT-1,015m	12	<0.2	70	10.20	19	<5	50	3	8	1.0	12.0	2
5	UT-1,019m	26	<0.2	32	3.40	22	<5	20	5	61	1.6	5.6	1
6	UT-1,025m	8	<0.2	46	9.00	15	30	40	6	11	1.8	4.2	3
7	UT-1,030m	20	<0.2	12	3.70	36	<5	30	4	36	1.2	1.6	1
8	UT-1,035m	99	<0.2	20	6.70	50	<5	40	7	35	2.2	1.4	1
9	UT-1,041m	233	<0.2	14	5.80	32	<5	30	5	67	1.4	2.0	1
10	UT-1,045m	103	<0.2	14	4.70	8	<5	30	3	70	1.0	2.8	<1
11	UT-1,050m	199	<0.2	26	2.90	5	<5	30	2	42	0.4	4.6	<1
12	UT-1,055m	17	<0.2	48	7.20	12	<5	40	6	61	1.2	12.0	1
13	UT-1,059m	70	<0.2	36	14.30	32	<5	40	6	6	1.2	2.4	3
14	UT-1,065m	76	<0.2	32	3.60	8	<5	10	2	14	0.6	3.6	1
15	UT-1,070m	13	<0.2	26	5.20	19	<5	10	2	17	1.0	3.0	1
16	UT-1,075m	33	<0.2	42	7.70	14	<5	30	1	4	0.8	5.4	4
17	UT-1,080m	8	<0.2	32	8.40	7	<5	30	2	3	0.4	6.8	1
18	UT-1,085m	5	<0.2	26	7.60	6	<5	20	2	9	0.6	13.0	2
19	UT-1,090m	7	<0.2	46	5.50	18	<5	20	2	5	0.6	6.6	1
20	UT-1,095m	4	<0.2	38	7.00	8	<5	20	3	10	0.4	7.4	2
21	UT-1,100m	4	<0.2	32	7.40	11	<5	10	1	6	0.4	4.2	3
22	UT-1,105m	25	<0.2	50	12.50	86	<5	20	4	40	2.2	19.0	2
23	UT-1,110m	4	<0.2	94	7.70	13	<5	20	3	2	0.8	12.0	2
24	UT-1,115m	1	<0.2	14	6.50	11	<5	10	2	3	0.4	6.0	1
25	UT-1,120m	3	<0.2	22	5.60	10	<5	10	2	3	1.2	12.0	4
26	UT-1,125m	4	<0.2	36	6.40	39	<5	20	3	5	1.0	8.4	1
27	UT-1,130m	5	<0.2	50	8.10	26	<5	10	2	2	1.2	7.8	1
28	UT-1,135m	4	<0.2	36	6.20	20	<5	20	3	8	1.0	6.4	1
29	UT-1,138.6m	5	<0.2	50	7.50	31	<5	20	2	6	1.8	7.6	1
30	UT-1,140m	4	<0.2	70	6.60	32	<5	30	2	4	1.0	8.2	2

APX. 7–1–2 Results of Chemical Analyses

Ser. No.	Sample No.	Au ppb	Ag ppm	As ppm	Fe %	Cu ppm	Mn ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm
31	UT-1, 145m	6	<0.2	146	6.00	25	<5	30	20	8	2.2	15.0	2
32	UT-1, 150m	5	<0.2	54	10.40	84	<5	20	3	6	0.6	10.2	3
33	UT-1, 155m	2	<0.2	16	6.60	18	<5	20	2	8	0.4	8.0	1
34	UT-1, 160m	13	<0.2	114	10.50	40	<5	30	2	8	1.8	14.0	2
35	UT-1, 166m	5	<0.2	24	2.50	12	10	20	39	71	1.0	1.4	2
36	UT-1, 170m	13	0.3	10	14.80	64	<5	20	4	4	1.0	19.0	4
37	UT-1, 175m	5	<0.2	30	5.60	105	<5	20	6	6	0.2	1.2	3
38	UT-1, 179m	2	<0.2	122	12.00	250	10	20	10	4	0.6	6.4	11
39	UT-1, 183m	2	<0.2	26	3.20	8	<5	20	3	4	0.8	7.8	1
40	UT-1, 187m	1	<0.2	70	10.30	76	<5	20	22	12	0.6	4.0	6
41	UT-1, 191m	9	<0.2	2	1.10	5	<5	20	23	20	0.8	<0.2	<1
42	UT-1, 195m	7	<0.2	2	0.10	3	<5	20	<1	4	0.2	<0.2	2
43	UT-1, 200m	15	<0.2	2	2.20	5	<5	20	1	23	0.6	7.8	<1
44	UT-1, 205m	19	<0.2	34	4.70	8	<5	20	2	8	0.6	9.0	1
45	UT-1, 212m	3	<0.2	6	9.30	9	<5	20	1	3	0.4	19.0	1

APX. 7–1–3 Results of Chemical Analyses

Ser. No.	Sample No.	Au ppb	Ag ppm	As ppm	Fe %	Cu ppm	Mn ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm
1	UT-2,001m	25	<0.2	30	7.20	145	<5	20	<1	20	1.8	7.2	1
2	UT-2,005m	2	<0.2	98	5.00	21	<5	10	<1	4	0.8	6.4	<1
3	UT-2,012m	11	<0.2	24	11.50	85	<5	30	1	9	<0.2	5.6	2
4	UT-2,015m	8	<0.2	12	11.50	176	<5	20	2	16	0.4	9.0	2
5	UT-2,018m	2	<0.2	12	1.30	11	<5	10	<1	20	0.4	1.8	<1
6	UT-2,021m	8	<0.2	36	7.40	15	<5	20	1	35	1.4	12.0	<1
7	UT-2,025m	36	<0.2	48	4.30	20	<5	20	2	32	1.2	5.4	1
8	UT-2,027m	<1	<0.2	4	3.50	14	<5	10	<1	13	0.4	6.2	1
9	UT-2,032m	11	<0.2	4	1.20	5	<5	10	2	25	0.8	0.8	<1
10	UT-2,036m	35	<0.2	670	8.50	115	<5	10	<1	35	20	7.2	1
11	UT-2,040m	30	<0.2	22	6.50	11	<5	20	3	30	1.2	6.0	1
12	UT-2,045m	120	<0.2	118	4.80	10	<5	20	2	62	2.8	8.8	1
13	UT-2,050m	7	<0.2	4	1.10	5	<5	10	2	10	0.2	2.2	<1
14	UT-2,055m	12	<0.2	130	6.50	14	<5	10	<1	15	1.0	8.8	1
15	UT-2,060m	30	<0.2	24	4.90	92	<5	20	2	30	0.2	7.8	<1
16	UT-2,065m	4	<0.2	42	3.40	9	10	10	1	14	0.6	5.2	1
17	UT-2,068.5m	4	<0.2	140	6.30	13	<5	10	<1	2	0.8	9.6	<1
18	UT-2,073m	23	<0.2	64	4.50	64	<5	30	2	17	1.0	5.4	<1
19	UT-2,078m	2	<0.2	36	2.70	6	<5	10	1	4	0.6	5.2	<1
20	UT-2,081.3m	32	<0.2	100	3.90	8	<5	20	2	3	6.0	5.2	<1
21	UT-2,088.3m	11	<0.2	50	0.30	1	<5	10	1	20	6.4	1.0	<1
22	UT-2,094m	66	<0.2	24	4.80	4	<5	30	<1	34	1.4	7.4	<1
23	UT-2,100m	573	<0.2	130	10.00	29	<5	50	3	73	5.2	22.0	1
24	UT-2,104m	302	<0.2	104	6.50	47	<5	30	3	13	2.0	43.0	<1
25	UT-2,111.5	33	<0.2	86	16.30	39	<5	30	2	12	10.0	13.6	3
26	UT-2,116m	16	<0.2	4	4.10	18	<5	20	2	37	0.8	5.6	<1
27	UT-2,120.5m	13	<0.2	224	12.50	71	<5	20	4	3	7.4	12.6	2
28	UT-2,126m	10	<0.2	30	8.00	17	<5	20	4	11	1.8	9.0	1
29	UT-2,130.4m	76	<0.2	14	5.10	36	<5	10	9	41	0.8	5.2	<1
30	UT-2,136m	4	<0.2	26	9.00	24	<5	10	3	20	1.0	8.4	1

APX. 7-1-4 Results of Chemical Analyses

Ser. No.	Sample No.	Au ppb	Ag ppm	As ppm	Fe %	Cu ppm	Mn ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm
31	UT-2, 143.5m	2	<0.2	28	5.20	9	<5	10	2	34	1.2	6.4	<1
32	UT-2, 148m	43	<0.2	4	3.80	197	<5	20	2	2	0.2	5.2	1
33	UT-2, 155m	20	<0.2	10	4.80	80	<5	20	2	10	0.8	5.4	2
34	UT-2, 160m	11	<0.2	6	3.90	34	<5	20	3	69	0.6	4.0	1
35	UT-2, 170m	15	<0.2	6	5.30	62	15	20	2	39	1.0	6.2	128
36	UT-2, 174.4m	140	<0.2	134	11.40	196	<5	30	1	18	11.5	14.8	3
37	UT-2, 180.6m	7	<0.2	40	7.60	37	<5	20	2	7	1.2	35.0	3
38	UT-2, 185.5m	10	<0.2	24	5.90	37	<5	20	2	43	1.4	7.8	<1
39	UT-2, 190m	7	<0.2	8	3.40	15	<5	30	2	22	1.2	4.4	1
40	UT-2, 194m	4	<0.2	4	7.10	50	<5	20	1	3	0.4	8.0	1
41	UT-2, 197m	<1	<0.2	42	10.80	27	<5	10	1	9	0.6	6.4	2
42	UT-2, 200m	2	<0.2	10	8.30	43	<5	20	1	3	<0.2	10.8	1
43	UT-2, 201m	1	<0.2	2	1.30	3	<5	10	1	5	0.2	2.6	<1

MT-1

APX. 7-1-5 Results of Chemical Analyses

Ser. No.	Sample No.	Au ppb	Ag ppm	As ppm	Fe %	Cu ppm	Mn ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm
1	MT-1,004m	22	0.2	36	4.50	16	<5	30	63	60	0.8	26.0	5
2	MT-1,010m	14	<0.2	10	6.20	46	<5	20	10	48	0.2	11.2	6
3	MT-1,015.0m	9	<0.2	12	5.00	34	<5	20	26	143	0.6	6.0	4
4	MT-1,018.7m	31	0.5	186	7.80	156	<5	10	260	87	0.8	34.0	3
5	MT-1,021m	9	<0.2	14	4.80	16	<5	10	17	34	0.4	10.0	2
6	MT-1,026m	18	0.4	26	5.10	13	<5	20	43	90	0.4	27.0	3
7	MT-1,030m	12	<0.2	44	3.80	18	<5	10	29	55	0.6	1.8	2
8	MT-1,032m	50	0.4	64	19.00	86	<5	20	55	197	0.4	37.0	5
9	MT-1,038m	47	<0.2	28	8.50	31	<5	20	108	111	0.4	32.0	3
10	MT-1,045m	54	0.4	58	8.30	24	<5	20	48	91	0.2	68.0	3
11	MT-1,050m	26	0.3	14	5.00	92	<5	20	133	112	0.2	34.0	3
12	MT-1,055m	37	<0.2	34	6.20	24	10	20	76	209	0.6	44.0	2
13	MT-1,059m	43	0.2	56	7.00	32	10	60	184	172	0.8	53.0	3
14	MT-1,065m	333	0.5	374	6.60	79	5	20	138	104	6.4	49.0	3
15	MT-1,066.5m	25	0.3	14	5.10	14	<5	20	40	113	0.2	38.0	3
16	MT-1,068.3m	97	<0.2	2	6.00	5	<5	10	41	416	0.6	<0.2	2
17	MT-1,073m	36	<0.2	4	1.50	12	<5	20	17	145	0.6	<0.2	2

MT-2

APX. 7-1-6 Results of Chemical Analyses

Ser. No.	Sample No.	Au ppb	Ag ppm	As ppm	Fe %	Cu ppm	Mn ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm
1	MT-2,002m	54	0.8	10	3.70	22	<5	20	61	113	0.6	20.0	3
2	MT-2,007m	70	0.4	64	11.00	46	5	20	99	113	0.2	42.0	4
3	MT-2,013m	55	0.2	62	7.80	25	<5	20	69	37	0.6	41.0	2
4	MT-2,015m	21	<0.2	12	7.50	62	<5	20	116	31	<0.2	3.6	3
5	MT-2,020m	17	<0.2	10	4.60	13	<5	20	18	165	<0.2	6.2	2
6	MT-2,025m	43	1.7	8	8.30	21	<5	20	46	28	0.8	11.0	2
7	MT-2,032m	17	0.2	6	4.60	10	<5	20	24	51	0.4	5.8	1
8	MT-2,036m	22	0.5	4	5.80	19	<5	20	42	95	0.4	22.0	2
9	MT-2,040m	281	0.6	272	3.60	42	<5	10	53	33	1.6	48.0	2
10	MT-2,045m	551	0.4	84	3.80	86	<5	10	38	10	0.8	63.0	3
11	MT-2,050m	25	<0.2	8	6.30	39	<5	20	23	77	<0.2	12.0	2
12	MT-2,056m	30	<0.2	20	12.00	65	<5	20	29	46	0.2	18.0	4
13	MT-2,061m	323	0.3	150	3.30	47	<5	10	41	8	1.2	64.0	1
14	MT-2,065m	13	0.3	16	2.40	98	<5	10	28	46	0.4	32.0	3
15	MT-2,068m	133	0.4	24	13.50	109	10	10	24	46	0.4	21.0	6
16	MT-2,075m	24	<0.2	2	2.90	44	<5	20	6	42	<0.2	3.4	1
17	MT-2,078.5m	8	<0.2	2	2.00	10	<5	10	5	68	0.2	14.0	2
18	MT-2,084m	21	0.3	4	12.80	38	<5	20	49	87	1.0	38.0	3
19	MT-2,091m	28	<0.2	2	1.60	12	<5	10	50	52	0.2	5.8	1
20	MT-2,095m	10	<0.2	2	0.60	6	<5	10	30	59	<0.2	5.6	1
21	MT-2,100m	18	0.2	2	7.80	22	<5	20	21	43	<0.2	24.0	2
22	MT-2,105.5m	63	<0.2	4	6.50	24	<5	20	80	104	0.2	20.0	2
23	MT-2,111.7m	9	0.9	32	4.80	13	<5	20	59	45	<0.2	5.4	1
24	MT-2,115.5m	11	0.2	18	2.70	13	<5	30	46	17	0.2	31.0	1
25	MT-2,120m	10	<0.2	8	1.30	8	<5	30	9	14	3.0	1.6	1
26	MT-2,125m	212	0.5	2	1.20	10	<5	20	15	56	1.0	13.0	1
27	MT-2,130m	288	<0.2	36	3.80	30	<5	20	15	70	0.6	16.0	2

Mt. APITON area

APX. 7–2–1 Results of Chemical Analyses

Ser. No.	Sample No.	Au ppb	Ag ppm	As ppm	Fe %	Cu ppm	Mn ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm
1	AA00	6	<0.2	14	3.00	17	530	90	1	5	0.2	1.0	10
2	AA01N	7	<0.2	12	5.40	65	1200	60	1	3	<0.2	0.4	42
3	AA02N	6	<0.2	2	4.45	86	600	60	1	2	<0.2	0.6	52
4	AA03N	5	<0.2	10	5.10	80	300	50	1	4	0.2	1.8	26
5	AA04N	6	<0.2	8	5.85	67	115	50	9	8	<0.2	2.4	14
6	AA05N	6	<0.2	2	4.10	107	65	40	1	8	<0.2	0.6	20
7	AA06N	7	<0.2	2	4.10	95	250	40	3	7	<0.2	1.0	28
8	AA07N	6	<0.2	2	1.90	44	945	40	1	12	<0.2	0.2	40
9	AA08N	9	<0.2	2	2.40	93	420	30	7	14	<0.2	1.0	36
10	AA01S	6	<0.2	50	2.80	25	330	80	1	17	1.2	0.6	12
11	AA02S	17	<0.2	54	2.40	24	1100	100	1	34	0.6	0.4	12
12	AA03S	34	<0.2	40	1.80	19	60	90	2	60	2.2	0.4	6
13	AA04S	36	<0.2	16	1.10	9	40	50	1	64	0.8	0.2	4
14	AA05S	32	<0.2	64	2.10	29	80	80	1	58	1.8	1.0	7
15	AA06S	27	<0.2	32	1.90	20	160	70	2	42	0.6	0.4	9
16	AA07S	17	<0.2	10	0.70	10	200	50	<1	33	0.2	<0.2	6
17	AA08S	20	<0.2	4	2.10	19	350	90	1	35	<0.2	0.6	10
18	AA09S	25	<0.2	18	2.00	14	320	80	2	29	0.2	0.8	7
19	AA10S	14	<0.2	12	1.25	9	360	70	<1	20	<0.2	0.2	4
20	AA11S	16	<0.2	8	1.20	9	160	70	1	17	<0.2	0.6	3
21	AA12S	14	<0.2	6	1.15	10	180	60	1	15	0.2	0.4	4
22	AA13S	34	<0.2	24	3.40	30	70	100	2	30	0.2	0.8	10
23	AA14S	19	<0.2	62	4.00	36	80	80	2	19	0.4	2.0	9
24	AA15S	31	<0.2	74	3.10	32	110	80	1	26	0.6	1.4	7
25	AA16S	23	<0.2	12	1.45	10	100	60	1	9	0.2	0.6	4
26	AB00	20	<0.2	30	1.80	16	110	60	1	14	1.0	0.4	4
27	AB01N	30	<0.2	30	1.90	12	180	50	5	14	0.4	1.0	4
28	AB02N	13	<0.2	38	1.60	13	170	40	1	10	0.2	0.4	4
29	AB03N	8	<0.2	70	2.40	21	100	40	3	29	0.4	0.8	4
30	AB04N	4	<0.2	10	2.00	23	490	40	2	7	<0.2	0.8	13

Mt. APITON area

APX. 7–2–2 Results of Chemical Analyses

Ser. No.	Sample No.	Au ppb	Ag ppm	As ppm	Fe %	Cu ppm	Mn ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm
31	AB05N	13	<0.2	30	5.50	96	900	50	1	16	0.8	1.0	58
32	AB06N	21	0.3	46	3.50	43	320	50	1	19	0.8	0.8	16
33	AB01S	33	<0.2	252	5.00	52	70	60	2	42	5.2	1.8	6
34	AB02S	73	<0.2	158	4.45	62	70	80	3	58	4.4	4.4	6
35	AB03S	30	<0.2	76	4.40	30	80	60	2	30	1.8	1.8	6
36	AB04S	82	<0.2	82	3.40	31	70	60	4	45	2.6	1.6	8
37	AB05S	46	<0.2	28	3.00	31	90	60	2	20	0.6	0.2	7
38	AB06S	65	<0.2	48	3.00	14	70	60	2	50	1.4	1.8	6
39	AB07S	33	<0.2	26	2.70	16	100	60	2	28	1.0	1.0	6
40	AB08S	32	<0.2	34	2.85	16	210	90	2	28	1.0	1.4	8
41	AB09S	23	<0.2	22	2.00	13	210	70	1	22	1.0	0.6	6
42	AB10S	21	<0.2	12	1.90	15	120	70	2	20	0.6	0.6	8
43	AB11S	21	<0.2	2	0.60	6	175	70	1	7	0.2	<0.2	6
44	AB12S	12	<0.2	4	1.10	6	140	70	<1	6	0.4	0.4	6
45	AC00	72	<0.2	218	6.60	70	30	50	3	60	4.2	2.4	5
46	AC01N	41	<0.2	112	6.30	62	55	60	2	56	1.8	2.4	7
47	AC02N	28	<0.2	60	3.75	32	65	60	2	29	1.0	1.4	5
48	AC03N	27	<0.2	40	3.70	29	240	70	2	22	0.6	1.2	8
49	AC04N	15	<0.2	18	3.10	29	115	40	2	16	0.4	1.0	9
50	AC05N	9	<0.2	10	2.40	21	160	50	1	6	0.4	1.0	6
51	AC06N	5	<0.2	14	2.60	23	75	50	2	6	0.4	0.6	8
52	AC07N	6	<0.2	10	1.40	15	140	60	1	11	0.2	1.0	7
53	AC08N	23	<0.2	36	3.20	31	60	50	1	20	0.6	1.0	6
54	AC09N	8	0.3	12	1.70	18	60	50	2	9	0.4	0.6	10
55	AC10N	16	<0.2	8	1.60	20	40	30	4	21	0.4	1.0	8
56	AC11N	5	<0.2	10	1.90	28	70	30	1	12	0.4	0.8	12
57	AC01S	33	<0.2	52	7.40	8	35	50	4	18	4.8	1.6	7
58	AC02S	32	<0.2	56	6.70	9	40	60	3	25	3.6	2.6	7
59	AC03S	33	<0.2	112	8.90	18	40	60	4	36	6.2	3.6	8
60	AC04S	42	<0.2	58	2.70	16	50	60	3	42	1.2	1.4	8

Mt. APITON area

APX. 7–2–3 Results of Chemical Analyses

Ser. No.	Sample No.	Au ppb	Ag ppm	As ppm	Fe %	Cu ppm	Mn ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm
61	AC05S	50	0.2	80	5.80	27	60	70	3	48	2.4	3.0	7
62	AD00	97	<0.2	78	6.90	17	40	60	3	19	3.6	3.4	6
63	AD01N	88	<0.2	90	5.90	41	40	50	2	27	2.0	2.6	5
64	AD02N	43	<0.2	64	4.30	45	45	50	1	24	1.0	1.8	4
65	AD03N	46	<0.2	104	5.70	57	60	50	2	36	1.6	2.6	7
66	AD04N	24	<0.2	74	6.20	43	35	30	13	26	0.8	6.4	4
67	AD05N	20	0.3	6	4.30	38	130	50	4	14	<0.2	2.2	8
68	AD06N	9	<0.2	24	3.80	34	60	50	2	9	0.2	0.6	11
69	AD07N	11	<0.2	20	1.90	26	65	40	2	9	0.2	<0.2	13
70	AD08N	8	<0.2	18	3.50	23	50	40	2	6	0.2	0.6	28
71	AD09N	9	0.2	8	2.60	18	40	30	4	9	<0.2	0.4	6
72	AD10N	3	<0.2	10	1.45	9	50	20	1	4	<0.2	<0.2	4
73	AD01S	45	<0.2	38	4.85	4	40	50	3	10	1.6	1.0	4
74	AD02S	35	<0.2	42	3.30	4	40	50	2	11	1.6	<0.2	4
75	AD03S	48	<0.2	60	6.30	5	45	60	3	5	1.4	1.4	6
76	AD04S	27	<0.2	46	5.00	4	30	80	2	7	2.0	1.4	5
77	AD05S	15	<0.2	26	9.70	6	15	50	2	<1	0.8	1.8	6
78	AD06S	41	<0.2	52	6.20	2	10	50	2	3	2.4	0.8	3
79	AE00	14	<0.2	52	8.60	70	15	60	4	18	0.4	6.4	5
80	AE01N	58	<0.2	42	7.20	65	30	40	3	10	0.2	2.6	10
81	AE02N	11	<0.2	8	4.40	38	25	60	9	8	<0.2	3.4	10
82	AE03N	12	<0.2	26	6.80	54	30	60	6	14	0.2	3.8	8
83	AE04N	7	<0.2	36	5.70	35	20	50	2	12	0.2	2.0	6
84	AE05N	4	<0.2	8	2.60	27	20	60	6	5	<0.2	0.8	4
85	AE06N	10	<0.2	10	3.85	18	30	80	2	5	0.2	1.6	5
86	AE07N	4	<0.2	6	1.40	4	15	60	1	4	0.4	<0.2	3
87	AE08N	9	<0.2	18	6.50	62	25	60	7	12	0.2	2.0	9
88	AE09N	6	<0.2	8	1.80	21	30	40	3	8	0.2	0.2	10
89	AE10N	13	<0.2	8	2.50	50	25	50	3	10	<0.2	1.0	15
90	AE11N	19	<0.2	30	3.00	158	165	50	4	6	0.2	<0.2	70

Mt. APITON area

APX. 7–2–4 Results of Chemical Analyses

Ser. No.	Sample No.	Au ppb	Ag ppm	As ppm	Fe %	Cu ppm	Mn ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm
91	AE12N	5	<0.2	10	3.10	31	270	30	1	8	<0.2	0.4	80
92	AE13N	7	<0.2	6	2.60	24	200	40	1	6	<0.2	<0.2	52
93	AE14N	2	<0.2	14	2.20	13	340	40	1	2	0.2	0.4	36
94	AE01S	23	<0.2	76	6.30	41	20	40	14	33	0.4	5.4	3
95	AE02S	12	<0.2	8	3.00	25	30	40	5	21	<0.2	1.0	14
96	AE03S	10	<0.2	12	5.50	21	30	40	2	8	0.2	2.0	6
97	AE04S	6	<0.2	16	3.50	19	35	40	2	4	0.2	0.6	5
98	AE05S	10	<0.2	22	4.40	24	100	60	2	9	0.2	1.4	11
99	AE06S	7	<0.2	10	2.30	22	180	100	2	8	<0.2	0.6	13
100	AE07S	14	<0.2	16	3.35	46	60	80	2	12	0.4	1.2	13
101	AE08S	11	<0.2	26	3.80	32	215	50	3	7	0.4	1.4	11
102	AE09S	16	<0.2	30	4.25	33	30	50	2	14	0.6	2.4	8
103	AE10S	64	<0.2	156	6.70	48	35	60	5	13	15.0	3.4	7
104	AE11S	67	<0.2	68	5.65	26	25	40	3	18	4.8	3.6	5
105	AE12S	10	<0.2	34	6.20	30	30	70	2	13	1.2	2.2	7
106	AE13S	22	<0.2	26	5.45	24	30	60	2	18	1.4	2.4	8
107	AE14S	14	<0.2	56	7.80	40	30	50	2	23	2.0	3.6	6
108	AE15S	10	<0.2	20	3.70	23	60	60	1	3	0.4	1.0	6
109	AE16S	14	<0.2	22	4.50	21	30	50	1	7	0.8	1.4	6
110	AE17S	12	<0.2	14	3.00	9	30	40	2	7	0.4	0.8	4
111	AE18S	34	<0.2	28	4.00	12	20	50	2	21	0.8	2.2	4
112	AE19S	91	0.4	32	5.10	12	25	60	2	50	2.8	2.8	4
113	AE20S	56	<0.2	36	4.10	11	40	50	1	30	5.0	1.2	7
114	AE21S	18	<0.2	24	3.45	4	40	40	2	11	0.6	1.2	5
115	AE22S	41	<0.2	66	4.60	39	40	60	2	31	1.8	2.2	7
116	AE23S	5	<0.2	14	3.70	34	260	40	2	2	<0.2	0.2	17
117	AE24S	7	<0.2	10	5.30	114	880	50	3	4	0.2	0.4	74
118	AE25S	4	<0.2	12	5.60	87	990	40	1	2	0.2	0.6	106
119	AF00	28	<0.2	56	4.40	14	20	40	17	20	0.6	3.2	5
120	AF01N	14	<0.2	40	4.40	8	15	50	7	19	0.6	2.4	5

Mt. APITON area

APX. 7–2–5 Results of Chemical Analyses

Ser. No.	Sample No.	Au ppb	Ag ppm	As ppm	Fe %	Cu ppm	Mn ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm
121	AF02N	10	<0.2	14	3.80	24	10	50	5	7	0.2	1.4	5
122	AF03N	9	<0.2	4	4.10	57	20	40	6	8	<0.2	2.0	8
123	AF04N	4	<0.2	10	3.00	25	10	50	3	7	<0.2	1.4	4
124	AF05N	8	<0.2	14	3.70	17	10	50	3	15	0.2	1.6	4
125	AF06N	7	<0.2	16	3.75	16	10	50	2	11	0.2	1.4	5
126	AF07N	4	<0.2	8	2.00	14	5	40	4	6	0.2	0.6	5
127	AF08N	3	<0.2	10	2.45	15	10	40	3	4	0.2	0.8	4
128	AF09N	3	<0.2	6	1.80	10	10	40	3	5	0.2	0.4	4
129	AF10N	7	<0.2	20	1.45	4	30	40	2	11	0.4	0.6	4
130	AF11N	1	<0.2	10	1.10	6	50	50	3	5	0.2	1.0	4
131	AF12N	3	<0.2	6	1.10	4	70	40	3	2	0.2	0.6	4
132	AF13N	10	<0.2	46	3.40	42	60	40	3	8	0.8	0.6	36
133	AF14N	11	<0.2	88	3.40	46	670	50	2	1	1.0	0.2	70
134	AF01S	34	<0.2	72	5.80	27	15	60	18	30	0.8	3.6	6
135	AF02S	19	<0.2	18	3.60	14	10	50	10	7	0.4	1.2	4
136	AF03S	21	<0.2	26	3.70	14	10	60	5	8	0.4	1.4	4
137	AF04S	28	<0.2	34	4.10	23	10	70	4	7	0.8	1.6	6
138	AF05S	59	<0.2	50	6.40	33	15	70	6	6	0.8	3.8	6
139	AF06S	39	<0.2	26	4.00	25	20	60	5	5	0.8	1.6	6
140	AF07S	22	<0.2	20	3.40	18	10	60	2	3	0.4	1.8	6
141	AF08S	42	<0.2	10	2.35	20	70	90	1	10	0.2	<0.2	7
142	AF09S	33	<0.2	12	2.30	20	20	70	2	8	0.8	0.8	4
143	AF10S	73	<0.2	30	5.60	29	70	80	4	29	2.8	2.2	10
144	AF11S	87	<0.2	34	7.45	37	40	70	3	29	2.0	4.0	6
145	AF12S	80	<0.2	34	8.90	23	30	70	4	44	1.4	5.6	6
146	AF13S	42	<0.2	28	6.30	21	35	80	2	22	1.4	2.4	8
147	AF14S	78	0.3	66	8.70	23	30	70	3	42	2.4	5.6	6
148	AF15S	51	<0.2	36	8.10	26	40	50	3	24	1.6	4.2	7
149	AF16S	165	<0.2	24	4.10	12	60	90	2	50	0.6	2.2	7
150	AF17S	63	0.2	24	5.95	22	50	50	3	26	0.6	2.8	6

Mt. APITON area

APX. 7–2–6 Results of Chemical Analyses

Ser. No.	Sample No.	Au ppb	Ag ppm	As ppm	Fe %	Cu ppm	Mn ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm
151	AF18S	33	0.2	10	6.00	19	160	70	3	14	0.2	1.4	8
152	AF19S	27	<0.2	10	4.00	15	140	70	2	12	0.2	0.2	8
153	AF20S	20	<0.2	8	3.50	9	100	50	2	15	<0.2	0.8	8
154	AF21S	50	<0.2	24	3.00	16	295	70	2	26	0.4	1.0	8
155	AF22S	43	<0.2	16	2.85	16	330	70	2	25	0.8	0.6	9
156	AF23S	32	<0.2	4	2.80	29	480	70	2	24	0.2	0.4	11
157	AF24S	29	<0.2	2	2.20	20	400	70	2	19	0.2	0.4	9
158	AF25S	37	<0.2	8	2.00	19	220	60	2	17	0.4	<0.2	8
159	AF26S	49	<0.2	6	2.10	25	760	80	2	26	0.4	<0.2	18
160	AF27S	38	<0.2	8	2.60	42	430	80	2	18	0.2	0.2	19
161	AF28S	33	<0.2	6	2.30	37	750	70	2	18	0.2	0.2	24
162	AG00	27	<0.2	20	4.60	16	25	50	14	15	0.4	3.2	4
163	AG01N	7	<0.2	2	1.50	12	15	50	4	8	<0.2	<0.2	3
164	AG02N	14	<0.2	6	3.80	37	50	40	5	22	0.2	1.4	6
165	AG03N	13	<0.2	4	4.30	32	50	40	22	36	<0.2	1.2	6
166	AG04N	7	<0.2	18	5.80	43	25	50	6	13	<0.2	3.4	4
167	AG05N	11	<0.2	20	6.40	20	30	60	3	15	0.4	3.2	5
168	AG06N	11	<0.2	6	5.20	53	20	50	4	5	<0.2	1.8	4
169	AG01S	62	<0.2	42	2.50	16	20	50	12	29	1.0	2.0	3
170	AG02S	81	<0.2	40	2.80	15	35	50	22	32	1.8	1.2	4
171	AG03S	65	<0.2	42	3.50	21	25	50	18	17	2.2	2.6	6
172	AG04S	61	<0.2	44	3.20	23	30	70	10	20	3.0	1.2	7
173	AG05S	96	<0.2	44	2.50	25	30	80	7	19	3.4	1.4	6
174	AG06S	46	<0.2	30	2.20	20	80	70	5	14	2.4	0.6	5
175	AG07S	29	<0.2	10	2.50	23	230	80	2	8	0.8	0.2	10
176	AG08S	59	<0.2	14	4.20	38	80	70	3	11	0.4	1.4	9
177	AG09S	38	<0.2	14	3.00	22	85	60	1	14	1.2	0.6	8
178	AG10S	21	<0.2	4	4.10	40	70	40	2	6	0.2	0.8	11
179	AG11S	84	<0.2	58	7.00	46	80	60	3	25	3.6	2.8	10
180	AG12S	59	<0.2	10	3.90	20	145	70	2	16	1.2	0.8	8

Mt. APITON area

APX. 7–2–7 Results of Chemical Analyses

Ser. No.	Sample No.	Au ppb	Ag ppm	As ppm	Fe %	Cu ppm	Mn ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm
181	AG13S	28	<0.2	32	6.80	19	50	50	5	10	0.8	3.4	5
182	AG14S	12	<0.2	24	5.65	15	20	50	3	12	0.4	3.4	3
183	AG15S	12	<0.2	18	4.60	19	30	30	3	5	0.4	1.6	5
184	AG16S	8	<0.2	36	9.50	14	25	60	2	15	1.4	4.8	5
185	AL01	5	<0.2	22	1.60	7	240	70	2	7	0.2	0.2	9
186	AL02	19	<0.2	60	2.25	12	300	90	2	14	0.6	0.6	8
187	AL03	43	<0.2	208	3.30	43	110	90	3	26	2.4	1.6	5
188	AL04	30	<0.2	102	5.50	38	75	70	3	38	2.8	1.2	7
189	AL05	54	<0.2	110	5.70	39	45	70	2	56	3.2	1.8	6
190	AL06	90	<0.2	384	5.80	90	40	70	3	68	6.2	2.2	5
191	AL07	30	<0.2	74	6.20	20	45	80	4	23	1.8	1.4	8
192	AL08	24	<0.2	70	5.30	12	45	70	3	16	2.6	1.0	7
193	AL09	165	<0.2	70	7.00	14	45	80	4	16	2.2	1.2	6
194	AL10	42	<0.2	72	4.50	24	30	60	2	26	1.8	1.2	4
195	AL11	10	<0.2	22	5.40	28	30	40	2	12	0.8	1.4	4
196	AL12	22	<0.2	46	7.10	43	20	40	4	17	0.8	3.8	4
197	AL13	14	<0.2	4	3.00	23	20	50	5	9	0.4	0.8	4
198	AL14	11	<0.2	10	4.00	18	20	40	4	13	0.6	1.2	6
199	AL15	14	<0.2	24	4.80	22	30	50	4	13	0.8	1.4	6
200	AL16	48	<0.2	78	4.40	21	30	70	29	38	1.6	3.6	5
201	AL17	59	<0.2	20	3.20	22	20	60	33	31	1.2	2.4	6
202	AL18	70	<0.2	20	2.70	17	20	70	14	22	1.2	1.8	4

PUNTALES area

APX. 7–2–8 Results of Chemical Analyses

Ser. No.	Sample No.	Au ppb	Ag ppm	As ppm	Fe %	Cu ppm	Mn ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm
1	PA00	2	<0.2	2	1.50	33	25	20	12	<1	0.2	0.6	2
2	PA01N	8	<0.2	2	5.45	92	30	20	17	3	0.2	2.6	10
3	PA02N	3	<0.2	2	1.90	63	20	20	32	<1	0.2	1.2	2
4	PA03N	4	<0.2	2	2.90	98	30	20	35	1	0.2	1.6	3
5	PA04N	5	<0.2	6	3.30	46	35	30	10	5	0.2	1.4	6
6	PA05N	15	<0.2	2	2.95	62	60	20	7	2	<0.2	1.6	5
7	PA06N	7	<0.2	2	6.00	83	50	60	3	<1	0.4	1.6	8
8	PA07N	5	<0.2	8	2.10	34	30	20	5	2	0.6	1.0	3
9	PA08N	4	<0.2	2	6.80	97	90	30	4	8	0.2	1.0	18
10	PA01S	7	<0.2	4	3.45	90	35	30	10	1	0.2	1.6	16
11	PA02S	5	<0.2	2	3.70	119	40	20	2	<1	<0.2	1.2	10
12	PA03S	5	<0.2	2	1.90	32	30	20	7	<1	0.2	0.8	3
13	PA04S	3	<0.2	4	1.50	13	30	20	6	<1	0.4	0.8	2
14	PA05S	1	<0.2	8	1.00	12	25	20	5	<1	0.8	0.2	2
15	PA06S	8	<0.2	14	1.50	13	30	40	17	4	2.8	1.0	2
16	PA07S	8	<0.2	6	1.90	8	30	30	12	4	0.4	0.8	2
17	PA08S	7	<0.2	4	1.40	7	20	30	4	5	0.2	0.4	1
18	PA09S	3	<0.2	4	1.60	11	20	40	5	1	0.2	0.4	3
19	PA10S	3	<0.2	10	2.35	23	25	30	3	2	0.2	0.4	4
20	PA11S	<1	<0.2	12	1.70	16	30	30	2	5	0.2	0.2	3
21	PA12S	5	<0.2	12	3.10	22	50	70	3	5	0.4	1.2	8
22	PA13S	18	<0.2	46	5.30	37	25	60	3	6	1.0	3.6	14
23	PA14S	13	<0.2	14	9.10	51	20	40	8	3	0.8	4.8	7
24	PA15S	6	<0.2	12	4.30	32	30	40	7	6	0.4	2.8	6
25	PA16S	8	<0.2	12	4.40	23	30	60	4	12	0.4	1.8	6
26	PB00	4	<0.2	6	1.90	27	95	40	12	4	0.2	1.0	4
27	PB01N	6	<0.2	4	1.90	38	120	40	10	3	0.2	1.2	4
28	PB02N	6	<0.2	6	2.45	48	30	20	12	<1	0.2	1.2	2
29	PB03N	4	<0.2	6	1.40	23	25	10	15	<1	0.4	1.0	2
30	PB04N	8	<0.2	6	2.30	36	20	20	12	1	0.2	0.8	2

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APX. 7–2–9 Results of Chemical Analyses

Ser. No.	Sample No.	Au ppb	Ag ppm	As ppm	Fe %	Cu ppm	Mn ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm
31	PB05N	11	<0.2	6	2.45	34	30	20	5	1	0.2	0.6	2
32	PB06N	7	<0.2	8	1.90	41	40	20	6	2	0.2	0.8	4
33	PB07N	6	<0.2	6	1.60	31	30	10	11	1	0.2	0.2	4
34	PB08N	8	<0.2	10	2.80	89	60	20	13	<1	0.2	0.8	10
35	PB09N	9	<0.2	10	3.90	120	95	30	21	2	<0.2	1.2	15
36	PB10N	20	<0.2	10	3.70	176	80	30	13	4	0.4	1.6	6
37	PB11N	10	<0.2	12	5.10	168	30	30	8	7	0.2	2.4	4
38	PB01S	2	<0.2	10	2.30	47	40	20	16	7	0.4	1.0	3
39	PB02S	5	<0.2	12	2.00	27	40	30	7	<1	0.2	0.8	4
40	PB03S	5	<0.2	10	0.45	10	20	40	4	<1	0.2	<0.2	3
41	PB04S	3	<0.2	2	0.30	1	30	30	2	<1	0.2	<0.2	2
42	PB05S	3	<0.2	2	5.00	39	1000	50	2	12	0.2	0.2	190
43	PB06S	2	<0.2	2	4.30	47	560	60	2	9	0.2	0.6	128
44	PB07S	2	<0.2	2	2.90	12	1100	50	<1	2	0.2	0.4	72
45	PB08S	1	<0.2	2	4.40	50	1100	40	1	3	0.2	0.4	112
46	PB09S	2	<0.2	8	2.20	27	80	40	1	3	0.4	0.8	19
47	PB10S	<1	<0.2	4	1.00	4	30	30	1	1	0.2	0.4	5
48	PB11S	4	<0.2	10	3.75	114	460	40	2	12	0.4	1.4	38
49	PB12S	<1	<0.2	8	1.95	14	145	40	<1	6	0.2	0.4	16
50	PB13S	1	<0.2	4	2.10	34	100	40	1	5	0.6	0.8	21
51	PB14S	2	<0.2	6	2.90	30	30	40	2	2	0.2	1.0	10
52	PB15S	3	<0.2	8	4.50	30	210	50	2	11	0.4	0.8	18
53	PB16S	3	<0.2	8	3.20	26	130	60	1	2	0.4	1.4	12
54	PB17S	3	<0.2	4	3.20	44	565	70	1	6	0.2	1.0	27
55	PB18S	4	<0.2	8	4.40	39	540	80	2	10	0.2	1.2	40
56	PB19S	4	<0.2	12	5.20	60	930	70	1	2	0.2	1.0	44
57	PB20S	99	<0.2	44	5.35	73	50	40	5	27	1.8	3.2	12
58	PC00	5	<0.2	10	6.20	104	1800	50	1	4	<0.2	0.6	118
59	PC01N	3	<0.2	4	7.10	120	680	40	1	5	0.2	0.4	190
60	PC02N	2	<0.2	8	3.30	33	360	30	1	2	0.2	<0.2	76

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APX. 7–2–10 Results of Chemical Analyses

Ser. No.	Sample No.	Au ppb	Ag ppm	As ppm	Fe %	Cu ppm	Mn ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm
61	PC03N	4	<0.2	6	3.90	54	1200	40	1	6	0.2	<0.2	124
62	PC04N	4	<0.2	2	4.70	58	1500	50	<1	5	0.2	0.2	178
63	PC05N	4	<0.2	1	6.10	65	1400	50	1	3	0.2	0.2	98
64	PC06N	4	<0.2	2	3.50	71	1500	60	<1	4	0.2	<0.2	36
65	PC07N	4	0.2	1	5.45	68	2200	70	1	7	0.2	<0.2	104
66	PC08N	2	<0.2	1	6.20	86	1700	40	<1	10	0.2	0.6	140
67	PC09N	3	<0.2	2	4.20	58	990	40	1	6	0.2	0.2	84
68	PC10N	2	<0.2	4	2.60	63	1450	30	1	3	<0.2	0.2	54
69	PC11N	1	<0.2	4	2.50	26	2000	40	1	7	0.2	0.2	142
70	PC12N	2	<0.2	2	2.90	16	690	40	<1	7	0.4	0.4	54
71	PC13N	2	<0.2	1	2.80	50	530	30	<1	4	0.2	0.4	26
72	PC14N	4	<0.2	1	5.50	70	840	40	1	3	0.2	0.2	42
73	PC15N	<1	<0.2	<1	2.70	19	80	20	1	<1	<0.2	<0.2	11
74	PC16N	2	<0.2	2	4.50	31	200	40	2	<1	0.2	0.8	19
75	PC17N	1	<0.2	2	4.70	34	60	30	2	2	0.2	0.6	11
76	PC18N	2	<0.2	2	5.50	87	220	30	2	4	0.2	0.6	29
77	PC01S	3	<0.2	8	3.60	42	500	40	7	2	0.4	0.6	56
78	PC02S	7	<0.2	2	4.50	92	500	50	1	21	0.2	0.8	68
79	PC03S	2	<0.2	<1	4.30	75	920	50	<1	5	0.2	0.8	126
80	PC04S	2	<0.2	<1	7.10	46	1800	60	1	4	0.2	0.6	92
81	PC05S	4	<0.2	1	5.90	85	960	70	1	7	0.4	0.6	58
82	PC06S	2	<0.2	<1	4.70	232	1100	50	1	15	0.2	0.8	46
83	PC07S	3	0.2	<1	3.00	90	1200	70	1	17	0.2	0.4	24
84	PC08S	2	<0.2	<1	5.85	91	1200	70	1	6	0.2	0.6	98
85	PC09S	<1	<0.2	<1	1.90	24	180	50	2	3	0.2	1.0	10
86	PC10S	<1	<0.2	1	2.25	36	350	60	2	3	0.2	0.8	37
87	PC11S	1	0.2	2	1.25	11	115	50	2	3	0.4	<0.2	10
88	PC12S	4	<0.2	1	3.50	40	260	70	2	13	0.4	0.8	36
89	PC13S	3	0.2	1	2.40	25	40	60	<1	3	0.4	1.0	8
90	PC14S	3	<0.2	<1	3.85	52	110	70	2	12	0.4	1.4	26

PUNTALES area

APX. 7–2–11 Results of Chemical Analyses

Ser. No.	Sample No.	Au ppb	Ag ppm	As ppm	Fe %	Cu ppm	Mn ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm
91	PC15S	2	<0.2	<1	1.90	16	40	60	1	1	0.4	0.6	6
92	PC16S	5	<0.2	<1	3.15	38	50	50	2	<1	0.2	0.6	9
93	PC17S	5	<0.2	<1	3.30	49	90	60	1	3	<0.2	1.0	14
94	PD00	8	<0.2	<1	2.70	63	20	50	10	12	0.2	2.4	2
95	PD01N	3	<0.2	1	5.10	88	50	50	5	70	0.2	6.2	10
96	PD02N	1	<0.2	2	0.80	16	30	40	4	12	0.2	0.8	1
97	PD03N	3	<0.2	1	2.40	56	60	40	2	7	0.2	<0.2	40
98	PD04N	<1	<0.2	1	1.50	42	80	30	1	5	<0.2	<0.2	26
99	PD05N	2	<0.2	1	1.30	21	55	30	1	6	<0.2	<0.2	8
100	PD06N	<1	<0.2	2	0.90	30	210	40	1	4	<0.2	<0.2	12
101	PD01S	<1	<0.2	1	0.90	20	20	30	2	9	<0.2	<0.2	2
102	PD02S	<1	<0.2	2	0.85	38	270	40	1	12	0.2	0.2	36
103	PD03S	<1	<0.2	2	0.70	12	190	30	<1	12	0.2	0.2	58
104	PD04S	<1	<0.2	1	1.30	24	70	30	1	17	0.2	0.4	31
105	PD05S	1	<0.2	1	1.70	84	480	50	1	8	<0.2	<0.2	68
106	PD06S	2	<0.2	2	4.30	42	500	40	1	10	<0.2	0.2	88
107	PD07S	<1	<0.2	<1	4.20	46	540	40	1	<1	<0.2	<0.2	48
108	PD08S	4	<0.2	<1	4.20	79	660	50	<1	2	<0.2	0.6	40

APX. 7–3–1 Results of Chemical Analyses

Ser. No.	Sample No.	Au ppb	Ag ppm	As ppm	Fe %	Cu ppm	Mn ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm
1	UD-1-01	1	<0.2	20	4.80	80	10	90	4	<1	<0.20	13.00	3
2	UD-1-02	3	<0.2	20	5.30	14	15	20	4	<1	<0.20	6.60	3
3	UD-1-03	10	<0.2	6	4.00	26	5	20	1	<1	<0.20	5.80	2
4	UD-1-04	2	<0.2	1	2.60	25	5	20	<1	2	<0.20	4.00	1
5	UD-1-05	2	<0.2	1	6.80	38	5	40	<1	<1	<0.20	9.60	2
6	UD-1-06	1	<0.2	2	3.80	192	10	60	1	<1	<0.2	1.8	1
7	UD-1-07	2	<0.2	2	4.15	160	10	50	1	<1	<0.2	1.4	3
8	UD-1-08	2	<0.2	6	4.30	142	10	100	1	<1	<0.2	2.2	2
9	UD-1-09	<1	<0.2	2	3.20	127	5	90	2	<1	<0.2	0.8	2
10	UD-1-10	<1	<0.2	14	3.60	197	5	60	1	<1	<0.2	1.2	4
11	UD-1-11	<1	<0.2	2	2.95	100	10	50	<1	<1	<0.2	2.2	<1
12	UD-1-12	1	<0.2	4	2.40	86	5	60	1	<1	<0.2	2.6	<1
13	UD-1-13	1	<0.2	10	2.40	90	10	60	1	<1	<0.2	1.6	<1
14	UD-1-14	<1	<0.2	6	3.20	102	10	70	<1	<1	<0.2	1.0	1
15	UD-1-15	1	<0.2	14	2.60	93	10	40	1	<1	<0.2	1.0	1
16	UD-1-16	2	<0.2	6	3.00	100	10	70	1	<1	<0.2	0.8	2
17	UD-1-17	<1	<0.2	6	1.90	80	10	50	1	<1	<0.2	1.6	<1
18	UD-1-18	2	<0.2	2	2.80	48	10	40	<1	<1	<0.2	1.4	1
19	UD-1-19	<1	<0.2	2	4.30	90	20	70	1	<1	<0.2	1.4	3
20	UD-1-20	2	<0.2	40	4.35	85	20	60	1	<1	0.2	5.6	2
21	UD-1-21	1	<0.2	2	4.40	124	20	120	3	<1	<0.2	5.2	4
22	UD-1-22	1	<0.2	4	3.45	78	15	60	1	<1	<0.2	5.4	4
23	UD-1-23	<1	<0.2	4	3.45	80	15	70	1	<1	<0.2	4.4	2
24	UD-1-24	1	<0.2	6	2.70	94	10	90	2	<1	<0.2	1.6	2
25	UD-1-25	1	<0.2	6	2.90	106	10	90	1	<1	<0.2	2.2	2
26	UD-1-26	2	<0.2	8	3.60	148	10	120	1	<1	<0.2	1.8	2
27	UD-1-27	1	<0.2	2	4.10	107	15	110	1	<1	<0.2	3.6	2
28	UD-1-28	1	<0.2	6	3.55	107	10	160	1	<1	<0.2	4.6	2
29	UD-1-29	1	<0.2	2	3.40	93	15	130	1	<1	0.2	3.4	4
30	UD-1-30	<1	<0.2	2	3.50	80	10	80	1	<1	<0.2	2.0	3

APX. 7–3–2 Results of Chemical Analyses

Ser. No.	Sample No.	Au ppb	Ag ppm	As ppm	Fe %	Cu ppm	Mn ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm
31	UD-1-31	2	<0.2	2	3.00	66	20	60	39	<1	<0.2	3.2	32
32	UD-1-32	1	<0.2	14	4.00	118	15	80	1	<1	0.2	2.2	4
33	UD-1-33	2	<0.2	10	4.50	120	20	90	1	<1	<0.2	2.6	5
34	UD-1-34	<1	<0.2	2	3.00	54	20	50	2	<1	<0.2	1.8	4
35	UD-1-35	2	<0.2	18	2.90	108	30	70	1	<1	<0.2	5.2	3
36	UD-1-36	2	<0.2	14	3.70	90	180	20	4	5	<0.2	1.0	26
37	UD-1-37	1	<0.2	2	5.10	117	1500	10	2	<1	<0.2	<0.2	96
38	UD-1-38	4	<0.2	8	3.90	44	20	20	6	<1	0.2	0.8	9
39	UD-1-39	4	<0.2	18	4.80	107	30	20	3	10	0.2	2.8	19
40	UD-1-40	3	<0.2	22	4.70	100	20	10	2	9	0.4	4.0	88
41	UD-1-41	5	<0.2	20	4.90	102	10	20	2	20	0.2	2.4	123
42	UD-1-42	2	<0.2	14	5.00	117	30	10	1	4	0.2	1.6	67
43	UD-1-43	4	<0.2	22	4.80	106	20	10	3	11	0.4	2.4	89
44	UD-1-44	5	<0.2	22	4.80	98	20	10	2	11	0.2	2.6	87

APX. 7-3-3 Results of Chemical Analyses

Ser. No.	Sample No.	Au ppb	Ag ppm	As ppm	Fe %	Cu ppm	Mn ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm
1	UD-2-01	3	1.0	30	4.20	48	10	120	6	<1	0.60	3.80	2
2	UD-2-02	3	0.4	26	5.60	57	10	70	3	2	0.60	7.60	2
3	UD-2-03	3	0.3	6	2.30	42	20	40	3	6	0.40	4.20	1
4	UD-2-04	7	0.5	24	4.40	71	10	40	2	16	0.40	30.00	1
5	UD-2-05	5	<0.2	42	5.50	60	20	30	<1	17	1.00	8.20	3
6	UD-2-06	3	0.6	76	6.80	26	10	30	<1	<1	1.20	8.20	2
7	UD-2-07	4	0.2	20	5.40	46	10	20	1	2	0.20	9.60	1
8	UD-2-08	3	0.2	40	5.50	44	10	20	<1	2	0.20	9.20	2
9	UD-2-09	<1	0.2	20	3.70	32	10	20	<1	1	0.20	4.60	1
10	UD-2-10	2	0.2	28	6.80	35	10	20	<1	<1	0.20	10.60	2
11	UD-2-11	<1	0.2	32	6.70	33	10	20	<1	<1	0.20	8.40	1
12	UD-2-12	4	0.2	20	2.40	5	10	20	<1	2	0.20	4.40	1
13	UD-2-13	4	<0.2	8	1.30	25	10	530	<1	3	0.20	2.20	1
14	UD-2-14	2	<0.2	4	1.60	164	10	140	6	<1	<0.20	1.80	1
15	UD-2-15	5	0.2	2	2.40	6	10	300	2	1	0.20	7.20	1
16	UD-2-16	3	<0.2	38	1.70	12	10	230	<1	3	0.20	6.40	1
17	UD-2-17	2	<0.2	8	1.50	180	10	330	<1	2	<0.20	3.80	<1
18	UD-2-18	6	<0.2	8	2.00	5	10	290	1	3	0.20	5.80	1
19	UD-2-19	2	<0.2	20	4.00	200	10	160	<1	<1	<0.20	5.20	2
20	UD-2-20	3	<0.2	8	5.00	167	10	310	<1	4	0.20	9.60	1
21	UD-2-21	7	<0.2	16	2.90	48	10	260	<1	6	0.20	6.40	1
22	UD-2-22	22	0.2	6	2.60	380	10	180	<1	3	<0.20	4.20	1
23	UD-2-23	6	0.2	28	10.00	320	40	600	<1	<1	0.20	5.60	5
24	UD-2-24	4	<0.2	28	4.50	400	20	190	<1	<1	<0.20	4.40	5
25	UD-2-25	2	<0.2	6	5.30	240	10	260	<1	<1	0.20	6.20	3
26	UD-2-26	2	<0.2	2	5.50	182	20	470	<1	<1	0.20	4.40	4
27	UD-2-27	3	<0.2	2	5.50	152	20	220	<1	<1	0.20	8.00	2
28	UD-2-28	3	<0.2	2	1.90	122	10	70	<1	2	<0.20	4.00	2
29	UD-2-29	2	<0.2	30	2.20	136	10	100	<1	2	<0.20	3.00	2
30	UD-2-30	8	<0.2	36	2.90	196	5	160	<1	<1	<0.20	3.00	9

APX. 7–3–4 Results of Chemical Analyses

Ser. No.	Sample No.	Au ppb	Ag ppm	As ppm	Fe %	Cu ppm	Mn ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm
31	UD-2-31	2	<0.2	<1	3.60	80	10	150	<1	<1	<0.20	3.20	5
32	UD-2-32	9	<0.2	1	2.20	66	5	120	<1	<1	<0.20	3.40	2
33	UD-2-33	3	<0.2	2	4.60	300	10	320	<1	<1	<0.20	9.40	5
34	UD-2-34	6	<0.2	10	4.30	140	10	210	1	<1	<0.20	3.00	6
35	UD-2-35	3	<0.2	1	3.10	76	20	140	1	<1	<0.20	1.80	4
36	UD-2-36	4	<0.2	2	3.30	78	10	110	<1	<1	<0.20	4.00	6
37	UD-2-37	3	<0.2	1	3.90	79	10	110	<1	<1	<0.20	7.60	5
38	UD-2-38	3	<0.2	1	3.80	66	10	90	<1	2	<0.20	3.20	6
39	UD-2-39	2	<0.2	34	5.40	130	5	140	9	<1	0.6	4.8	5
40	UD-2-40	3	<0.2	32	5.40	4	10	10	20	7	0.6	9.2	3
41	UD-2-41	<1	<0.2	26	4.70	208	5	20	1	<1	0.2	4.0	11

APX. 7-3-5 Results of Chemical Analyses

Ser. No.	Sample No.	Au ppb	Ag ppm	As ppm	Fe %	Cu ppm	Mn ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm
1	UD-3-01	2	<0.2	2	1.40	227	20	10	3	<1	<0.2	0.6	8
2	UD-3-02	2	<0.2	20	4.75	41	15	10	4	<1	0.2	7.2	1
3	UD-3-03	1	<0.2	14	3.40	23	15	10	2	<1	0.2	2.4	<1
4	UD-3-04	3	<0.2	4	1.00	4	20	10	13	6	<0.2	2.0	<1
5	UD-3-05	5	<0.2	30	8.50	13	15	40	1	<1	<0.2	12.2	2
6	UD-3-06	1	<0.2	38	4.10	15	15	10	1	<1	0.2	11.0	1
7	UD-3-07	1	<0.2	2	2.50	11	10	40	1	<1	<0.2	6.4	<1
8	UD-3-08	2	<0.2	18	4.30	140	10	70	4	<1	<0.2	11.8	2
9	UD-3-09	3	<0.2	66	3.80	14	10	50	1	<1	0.4	8.4	2
10	UD-3-10	<1	<0.2	10	3.90	103	<5	60	1	<1	0.2	3.8	3
11	UD-3-11	<1	<0.2	16	3.40	124	5	50	1	<1	0.2	1.6	3
12	UD-3-12	15	<0.2	14	7.40	15	10	520	4	<1	0.2	27.0	3
13	UD-3-13	3	<0.2	16	2.70	24	10	50	1	2	0.6	9.2	2
14	UD-3-14	3	<0.2	2	2.90	139	<5	130	1	<1	0.2	2.4	3
15	UD-3-15	4	<0.2	2	1.30	4	10	20	1	4	0.4	4.8	1
16	UD-3-16	2	<0.2	8	7.00	97	<5	150	1	<1	0.2	6.6	8
17	UD-3-17	3	<0.2	18	5.50	29	5	190	1	<1	0.4	11.8	4
18	UD-3-18	<1	<0.2	14	7.80	90	<5	130	1	<1	0.2	15.0	5
19	UD-3-19	1	<0.2	10	6.00	130	<5	140	1	<1	0.2	11.4	5
20	UD-3-20	168	<0.2	10	7.30	74	10	20	1	<1	0.6	29.0	3
21	UD-3-21	318	<0.2	56	10.60	24	<5	30	2	<1	1.4	43.0	3
22	UD-3-22	87	<0.2	192	5.80	40	5	20	1	<1	1.8	15.2	2
23	UD-3-23	34	<0.2	204	3.00	11	5	10	1	1	5.2	6.6	1
24	UD-3-24	2	<0.2	16	4.80	15	<5	40	5	<1	0.4	5.0	2
25	UD-3-25	12	<0.2	24	4.50	370	10	100	1	<1	0.4	2.6	4
26	UD-3-26	56	<0.2	166	1.30	16	<5	10	1	<1	2.8	4.4	<1
27	UD-3-27	10	<0.2	20	1.60	4	10	10	2	5	0.4	6.0	<1
28	UD-3-28	4	<0.2	2	3.10	148	<5	80	1	<1	0.2	1.4	5
29	UD-3-29	7	<0.2	12	3.40	310	15	120	1	3	0.2	2.6	6
30	UD-3-30	12	<0.2	16	5.50	260	<5	160	1	<1	0.2	1.8	7

APX. 7–3–6 Results of Chemical Analyses

Ser. No.	Sample No.	Au ppb	Ag ppm	As ppm	Fe %	Cu ppm	Mn ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm
31	UD-3-31	12	<0.2	104	1.90	38	5	190	1	<1	1.6	5.8	<1
32	UD-3-32	1	<0.2	4	4.90	212	15	120	1	<1	0.2	1.4	3
33	UD-3-33	<1	<0.2	8	3.40	198	10	100	1	<1	0.2	1.6	6
34	UD-3-34	6	<0.2	8	1.80	270	5	150	1	2	0.2	5.0	2
35	UD-3-35	3	<0.2	6	5.00	405	20	170	1	<1	0.2	2.2	4
36	UD-3-36	1	<0.2	6	3.50	465	5	120	1	<1	0.2	1.6	5
37	UD-3-37	3	<0.2	10	2.60	100	<5	70	1	<1	0.2	1.8	2
38	UD-3-38	<1	<0.2	12	2.90	120	10	80	1	<1	0.2	1.0	2
39	UD-3-39	8	<0.2	18	2.70	100	10	60	1	1	0.4	3.4	4
40	UD-3-40	11	<0.2	128	2.10	400	15	370	1	3	2.8	4.0	950
41	UD-3-41	2	<0.2	8	4.90	120	50	30	2	<1	<0.2	2.4	17
42	UD-3-42	<1	<0.2	12	2.40	66	15	50	2	<1	0.2	3.4	2
43	UD-3-43	<1	<0.2	18	2.00	78	<5	30	1	<1	0.2	2.4	3
44	UD-3-44	1	<0.2	6	4.40	122	30	10	1	<1	<0.2	1.8	12
45	UD-3-45	<1	<0.2	8	4.10	140	50	10	1	<1	<0.2	1.6	13
46	UD-3-46	1	<0.2	4	4.50	106	40	10	1	<1	0.2	1.8	13
47	UD-3-47	1	<0.2	12	4.50	126	30	10	1	<1	<0.2	2.0	13
48	UD-3-48	3	<0.2	14	2.80	62	5	10	2	<1	<0.2	2.4	2
49	UD-3-49	1	<0.2	8	4.60	116	50	10	1	<1	<0.2	2.8	10
50	UD-3-50	2	<0.2	10	4.40	115	50	10	1	<1	<0.2	2.2	12

APX. 7-3-7 Results of Chemical Analyses

Ser. No.	Sample No.	Au ppb	Ag ppm	As ppm	Fe %	Cu ppm	Mn ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm
1	MD-4-01	919	1.4	28	6.80	62	20	60	15	42	2.20	18.00	4
2	MD-4-02	130	0.4	72	8.10	81	20	30	28	15	5.60	2.00	5
3	MD-4-03	26	0.3	4	4.60	1100	240	40	12	4	<0.20	0.80	340
4	MD-4-04	23	0.6	4	3.60	1600	20	70	4	<1	0.20	4.00	850
5	MD-4-05	40	0.7	20	3.30	1500	20	70	5	7	0.20	4.20	10
6	MD-4-06	24	0.3	12	3.40	1700	30	70	7	16	0.20	4.00	9
7	MD-4-07	26	0.4	20	3.80	1200	10	70	4	10	0.20	3.00	6
8	MD-4-08	14	0.5	12	4.00	1500	10	70	3	10	0.40	2.60	6
9	MD-4-09	25	1.3	74	3.50	1600	10	100	21	24	0.20	3.40	15
10	MD-4-10	17	<0.2	840	3.60	2400	5	70	10	72	2.00	2.20	12
11	MD-4-11	14	<0.2	340	2.90	1200	10	80	2	81	2.40	2.60	11
12	MD-4-12	118	<0.2	620	3.00	1900	5	80	3	23	3.00	3.00	22
13	MD-4-13	12	<0.2	4	3.80	430	1000	30	3	3	<0.20	0.60	85
14	MD-4-14	10	<0.2	2	4.00	430	1050	20	4	<1	<0.20	<0.20	76
15	MD-4-15	12	<0.2	4	3.80	350	950	20	4	2	0.20	<0.20	78
16	MD-4-16	19	<0.2	4	3.70	440	1000	20	2	6	0.20	<0.20	110
17	MD-4-17	<1	<0.2	1	0.90	28	450	20	1	14	0.20	<0.20	27
18	MD-4-18	31	0.4	4	3.60	670	1050	20	2	5	<0.20	<0.20	97
19	MD-4-19	10	0.3	2	3.60	550	1150	20	2	13	<0.20	<0.20	120
20	MD-4-20	32	0.6	1	4.40	660	210	20	10	150	0.20	1.80	385
21	MD-4-21	108	0.6	<1	5.60	3200	550	20	8	14	0.20	1.40	139
22	MD-4-22	29	0.4	<1	4.50	1600	700	20	14	13	0.20	0.60	98
23	MD-4-23	28	0.5	<1	4.20	1000	1450	20	7	5	0.20	0.80	196
24	MD-4-24	44	0.4	1	4.80	1600	850	20	8	17	<0.20	1.80	230
25	MD-4-25	26	0.3	2	4.20	680	850	20	5	16	0.20	0.80	116
26	MD-4-26	23	0.3	1	4.10	1200	1350	10	5	13	<0.20	1.00	263
27	MD-4-27	26	0.3	<1	4.40	1400	990	10	8	5	<0.20	1.20	145
28	MD-4-28	17	0.6	1	4.30	1300	1250	10	17	9	<0.20	1.20	312
29	MD-4-29	7	0.2	2	3.90	430	1600	10	3	6	0.20	0.60	187

APX. 7–3–8 Results of Chemical Analyses

Ser. No.	Sample No.	Au ppb	Ag ppm	As ppm	Fe %	Cu ppm	Mn ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm
1	MD-5-01	52	1.1	12	3.20	50	15	10	3	8	0.2	0.6	2
2	MD-5-02	33	1.0	16	4.30	485	10	20	11	54	0.4	4.2	22
3	MD-5-03	14	0.6	30	4.90	108	10	20	4	<1	0.6	3.2	2
4	MD-5-04	56	2.0	4	3.70	2500	10	20	22	7	<0.2	20.0	6
5	MD-5-05	26	0.3	16	3.80	58	5	10	6	5	0.4	1.6	1
6	MD-5-06	48	1.7	12	0.60	120	10	20	7	11	<0.2	10.2	2
7	MD-5-07	97	0.5	8	4.90	490	5	10	20	5	<0.2	10.0	2
8	MD-5-08	76	1.8	54	2.15	580	10	10	43	8	<0.2	12.0	1
9	MD-5-09	49	0.3	22	0.90	364	10	10	9	9	<0.2	5.6	2
10	MD-5-10	19	0.2	6	0.90	55	10	10	5	6	<0.2	1.8	<1
11	MD-5-11	52	0.2	26	4.20	1300	10	10	22	5	<0.2	7.0	1
12	MD-5-12	542	0.8	104	3.95	3350	15	10	23	50	0.4	56.0	1
13	MD-5-13	46	1.8	26	6.10	550	10	10	17	16	0.8	20.0	3
14	MD-5-14	57	0.4	30	3.70	1830	20	20	67	12	<0.2	5.8	6
15	MD-5-15	36	<0.2	10	3.20	2160	10	20	30	1	<0.2	2.8	4
16	MD-5-16	32	0.6	36	3.30	1620	20	20	16	12	<0.2	4.0	7
17	MD-5-17	43	0.5	26	3.60	1640	10	30	51	14	<0.2	5.2	9
18	MD-5-18	42	0.5	92	3.70	820	10	50	13	25	<0.2	3.0	9
19	MD-5-19	24	0.2	18	3.85	640	10	60	39	8	<0.2	2.6	5
20	MD-5-20	14	0.2	30	2.35	210	10	20	16	14	<0.2	1.6	5
21	MD-5-21	23	0.3	2	3.40	760	10	20	2	6	<0.2	2.4	2
22	MD-5-22	28	0.2	42	2.30	580	10	50	6	44	<0.2	2.6	8
23	MD-5-23	39	1.0	2	2.10	1400	10	30	5	27	<0.2	1.4	1
24	MD-5-24	32	0.6	2	3.70	1560	10	40	6	2	<0.2	3.2	3
25	MD-5-25	32	0.7	2	3.30	1560	20	40	71	9	<0.2	3.2	3
26	MD-5-26	30	0.7	4	3.40	1750	15	40	31	21	<0.2	2.6	4
27	MD-5-27	27	0.4	2	3.00	1080	10	30	4	20	<0.2	2.2	2
28	MD-5-28	29	0.3	30	3.60	458	10	30	12	27	<0.2	2.4	4
29	MD-5-29	73	1.1	94	4.30	1650	5	50	11	8	0.2	3.0	8
30	MD-5-30	46	1.7	72	4.40	1860	5	80	9	29	0.4	4.4	15

APX. 7-3-9 Results of Chemical Analyses

Ser. No.	Sample No.	Au ppb	Ag ppm	As ppm	Fe %	Cu ppm	Mn ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm
31	MD-5-31	18	0.6	16	4.60	790	10	20	4	15	<0.2	2.4	14
32	MD-5-32	53	2.1	2900	3.50	8300	20	100	12	17	15.5	10.0	26
33	MD-5-33	24	0.6	104	3.10	930	15	20	5	9	0.8	4.2	6
34	MD-5-34	19	0.3	60	3.30	750	<5	40	11	20	0.4	2.6	15
35	MD-5-35	56	0.5	32	3.40	1000	10	30	13	25	<0.2	3.0	12
36	MD-5-36	71	0.6	194	3.50	1180	20	10	43	45	0.8	5.2	15
37	MD-5-37	38	<0.2	364	3.80	1020	<5	10	11	9	2.6	3.6	9
38	MD-5-38	13	<0.2	328	3.60	880	<5	50	12	13	2.0	3.8	18
39	MD-5-39	28	0.5	494	4.50	1300	<5	80	16	46	2.0	5.0	21
40	MD-5-40	15	0.3	304	3.80	740	<5	50	36	3	0.8	3.0	17
41	MD-5-41	21	<0.2	432	3.50	1250	<5	50	40	6	2.0	5.6	32
42	MD-5-42	15	<0.2	410	3.70	1150	<5	40	65	8	2.0	3.6	18
43	MD-5-43	18	0.2	66	3.80	1040	<5	40	21	18	0.2	6.6	18
44	MD-5-44	28	<0.2	310	3.40	920	<5	20	110	5	1.0	9.2	19
45	MD-5-45	39	<0.2	350	4.20	1000	<5	40	69	<1	0.4	20.0	26
46	MD-5-46	58	<0.2	424	5.70	1020	10	80	108	33	0.2	8.6	50
47	MD-5-47	72	0.3	28	3.30	970	10	600	19	10	<0.2	6.8	1850
48	MD-5-48	51	<0.2	22	3.50	970	<5	140	47	3	<0.2	8.4	216
49	MD-5-49	35	0.4	2	3.50	2440	40	50	9	25	<0.2	1.4	186
50	MD-5-50	79	<0.2	74	2.60	350	10	50	81	3	0.2	4.2	12
51	MD-5-51	184	0.3	302	4.80	1060	20	40	173	3	1.6	6.2	23
52	MD-5-52	34	<0.2	80	3.40	760	10	210	77	<1	<0.2	4.4	203
53	MD-5-53	40	0.3	20	3.70	2440	210	50	19	13	<0.2	1.6	193
54	MD-5-54	21	1.5	6	4.70	2920	1600	10	7	4	<0.2	0.8	182
55	MD-5-55	52	0.4	4	4.00	3980	80	20	13	38	<0.2	1.6	65
56	MD-5-56	38	0.4	6	4.00	3260	90	40	7	25	<0.2	1.2	113
57	MD-5-57	43	0.5	4	3.70	3020	60	40	6	35	<0.2	2.0	118
58	MD-5-58	36	0.8	2	4.50	3650	650	10	2	<1	<0.2	1.0	89
59	MD-5-59	45	0.5	2	4.20	3940	600	10	3	9	<0.2	2.8	93
60	MD-5-60	45	0.6	2	4.00	4780	460	10	6	6	<0.2	2.4	93

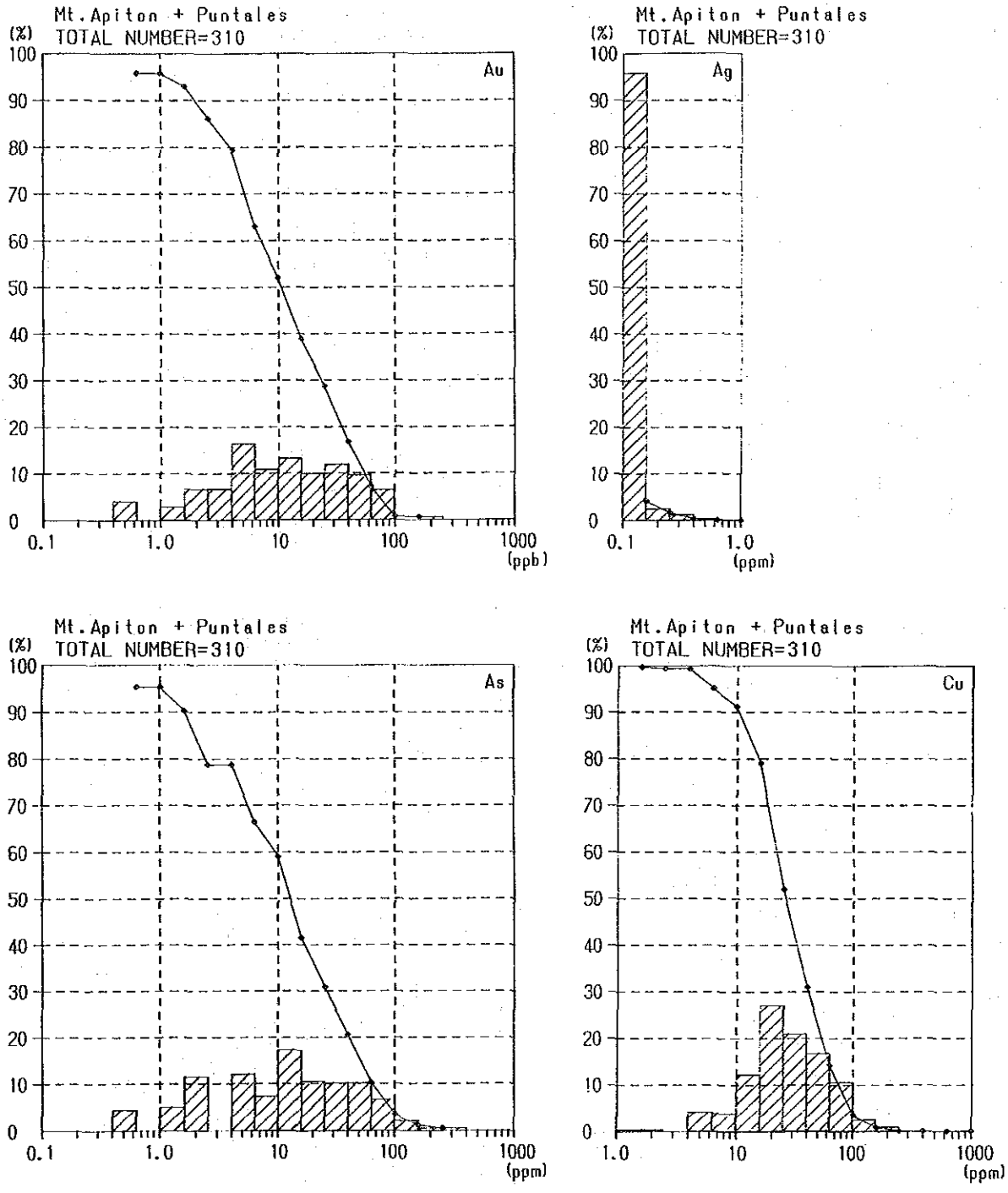
APX. 7–3–10 Results of Chemical Analyses

Ser. No.	Sample No.	Au ppb	Ag ppm	As ppm	Fe %	Cu ppm	Mn ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm
61	MD-5-61	68	0.9	4	4.40	4270	720	10	2	1	<0.2	1.0	72
62	MD-5-62	61	1.0	4	4.90	4220	770	10	3	<1	<0.2	1.4	82
63	MD-5-63	41	0.9	8	4.10	4300	960	10	3	2	<0.2	1.2	88
64	MD-5-64	31	0.4	4	4.20	2870	990	10	2	<1	<0.2	0.6	106
65	MD-5-65	17	0.5	2	4.70	3330	750	10	3	<1	<0.2	0.4	200
66	MD-5-66	29	0.5	2	4.70	3200	790	10	4	<1	<0.2	0.4	150
67	MD-5-67	38	0.5	2	4.00	3620	640	10	5	<1	<0.2	0.6	130
68	MD-5-68	43	0.5	2	4.20	2770	490	20	5	7	<0.2	1.0	220
69	MD-5-69	69	0.9	6	4.40	3550	520	10	5	36	<0.2	1.6	138
70	MD-5-70	<1	<0.2	4	1.90	60	720	10	2	35	<0.2	<0.2	85
71	MD-5-71	39	<0.2	2	3.40	1770	540	20	2	6	<0.2	2.0	48
72	MD-5-72	15	<0.2	4	3.30	340	1200	10	1	7	<0.2	0.8	146
73	MD-5-73	19	0.3	10	3.60	480	1200	10	3	17	<0.2	0.8	128
74	MD-5-74	19	0.4	4	3.40	650	1200	10	3	76	<0.2	0.4	248
75	MD-5-75	23	0.2	4	3.40	510	1000	10	3	7	<0.2	0.8	109
76	MD-5-76	86	0.6	2	3.90	2950	810	30	6	11	<0.2	2.0	98
77	MD-5-77	31	0.2	2	3.50	940	1050	10	6	5	<0.2	0.6	126
78	MD-5-78	44	0.4	4	3.40	1060	1000	20	3	13	<0.2	1.6	119
79	MD-5-79	31	<0.2	2	3.40	660	780	20	2	7	<0.2	1.2	90
80	MD-5-80	29	0.8	2	3.40	1220	720	10	4	37	<0.2	1.0	132
81	MD-5-81	32	0.5	4	3.50	820	860	20	3	59	<0.2	1.0	125
82	MD-5-82	91	0.4	4	3.30	1750	890	20	5	15	<0.2	0.8	112
83	MD-5-83	83	0.4	2	3.20	1550	960	10	4	1	<0.2	1.4	102
84	MD-5-84	105	0.7	2	4.60	3100	920	10	3	<1	<0.2	1.0	116
85	MD-5-85	31	<0.2	4	3.60	820	790	10	5	2	<0.2	0.8	110
86	MD-5-86	45	0.2	2	3.70	1520	960	10	6	5	<0.2	0.6	135
87	MD-5-87	34	0.2	2	3.70	850	860	10	5	7	<0.2	0.4	132

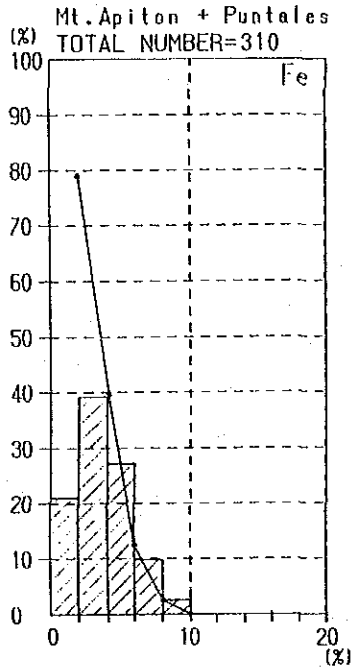
Ore samples

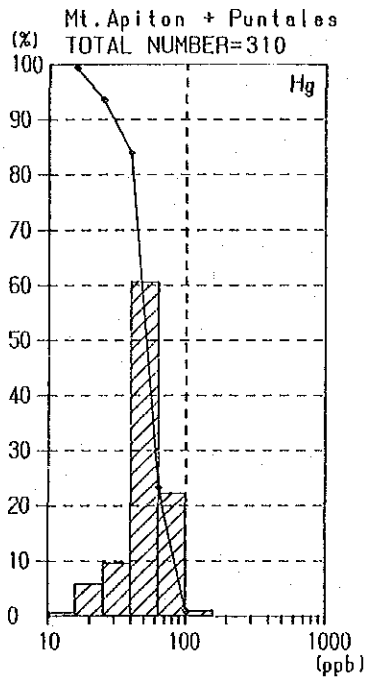
APX. 7–4–1 Results of Chemical Analyses

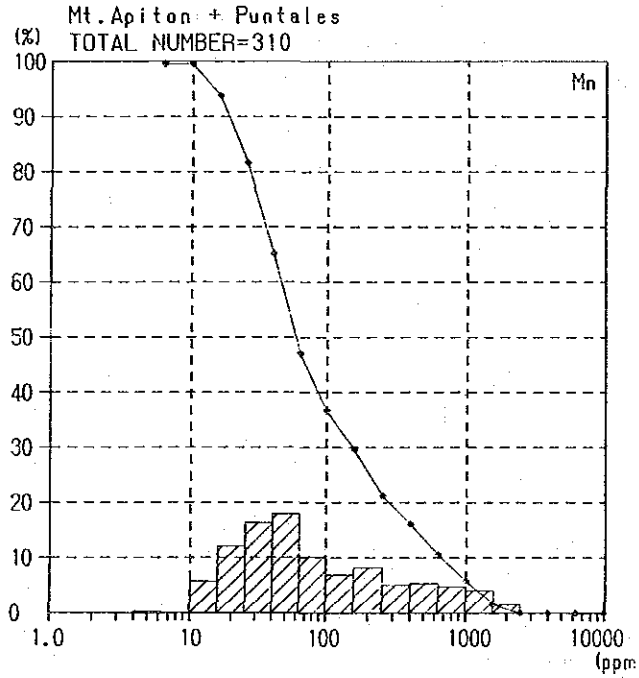
Ser. No.	Sample No.	Au ppb	Ag ppm	As ppm	Fe %	Cu ppm	Mn ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm
1	AA-03-NR	<1	<0.2	62	4.70	19	40	10	14	42	11.0	3.8	5
2	AA-05-SR	6	<0.2	4	0.30	9	20	10	1	61	0.8	<0.2	2
3	AB-03-SR	4	0.8	170	9.00	17	160	30	7	80	7.0	11.4	10
4	AC-02-SR	6	<0.2	62	6.70	2	<5	240	2	70	3.0	2.8	3
5	AC-05-SR	77	0.3	120	13.20	28	10	40	<1	63	15.0	32.0	5
6	AD-04-NR	2	<0.2	14	2.90	8	5	20	<1	<1	0.2	1.0	4
7	AD-05-SR	<1	<0.2	24	8.70	2	5	10	1	2	1.2	1.2	3
8	AE-05-NR	<1	<0.2	12	1.60	16	<5	10	2	5	0.2	2.0	2
9	AE-10-SR	16	<0.2	44	5.00	44	<5	20	3	12	2.2	7.8	3
10	AF-02-NR	6	<0.2	40	16.60	74	5	10	5	8	0.2	7.8	25
11	AF-04-NR	1	<0.2	30	18.40	64	10	10	4	6	0.2	5.4	9
12	AF-11-SR	14	<0.2	4	6.00	23	<5	10	1	12	0.2	5.4	3
13	AF-19-SR	4	<0.2	2	9.00	12	130	10	<1	<1	0.2	4.8	4
14	AG-05-NR	<1	<0.2	2	1.50	1	<5	10	2	2	0.2	1.2	1
15	AG-07-R	3	<0.2	22	1.40	<1	5	10	<1	49	1.0	1.2	<1
16	AL-09-R	5	<0.2	52	3.50	2	<5	60	2	3	0.4	2.2	2
17	PB-11-NR	<1	<0.2	2	10.00	325	20	10	3	3	0.2	5.2	9
18	PB-11-SR	<1	<0.2	4	3.60	44	900	10	2	4	0.2	0.4	55
19	PC-10-SR	6	0.3	14	2.50	11	20	10	1	<1	0.2	4.6	3
20	PD-02-SR	<1	<0.2	2	>20.0	59	320	10	1	2	0.2	2.2	87

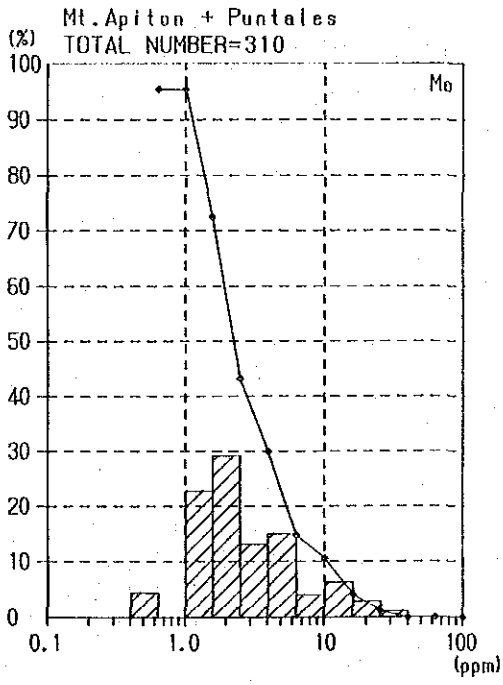


APX. 8–1 ***Histograms and Cumulative Frequencies, Geochemical Survey, Nipa Area, 1992***

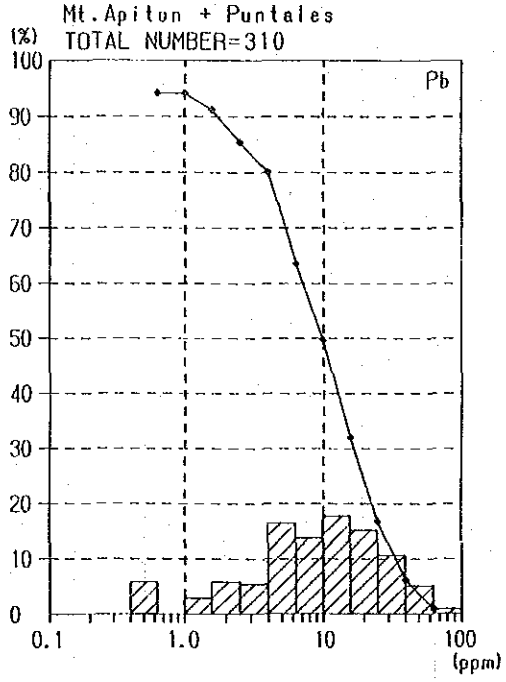


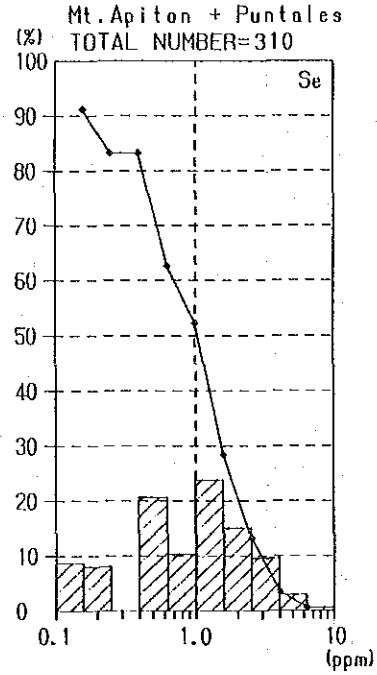


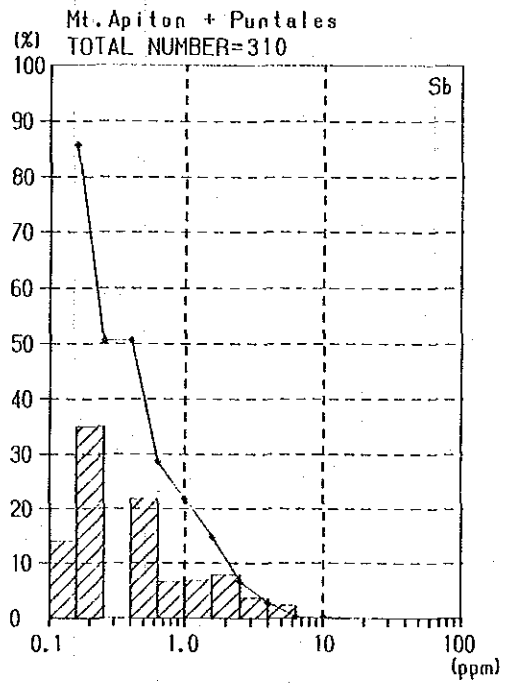


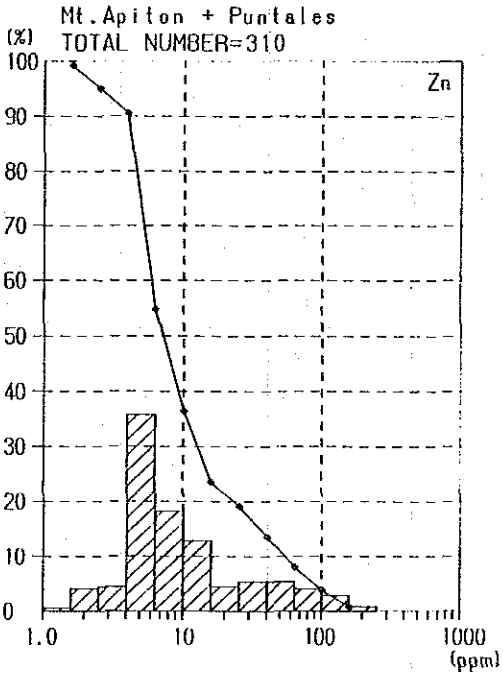


APX. 8–2 Histograms and Cumulative Frequencies, Geochemical Survey, Nipa Area, 1992







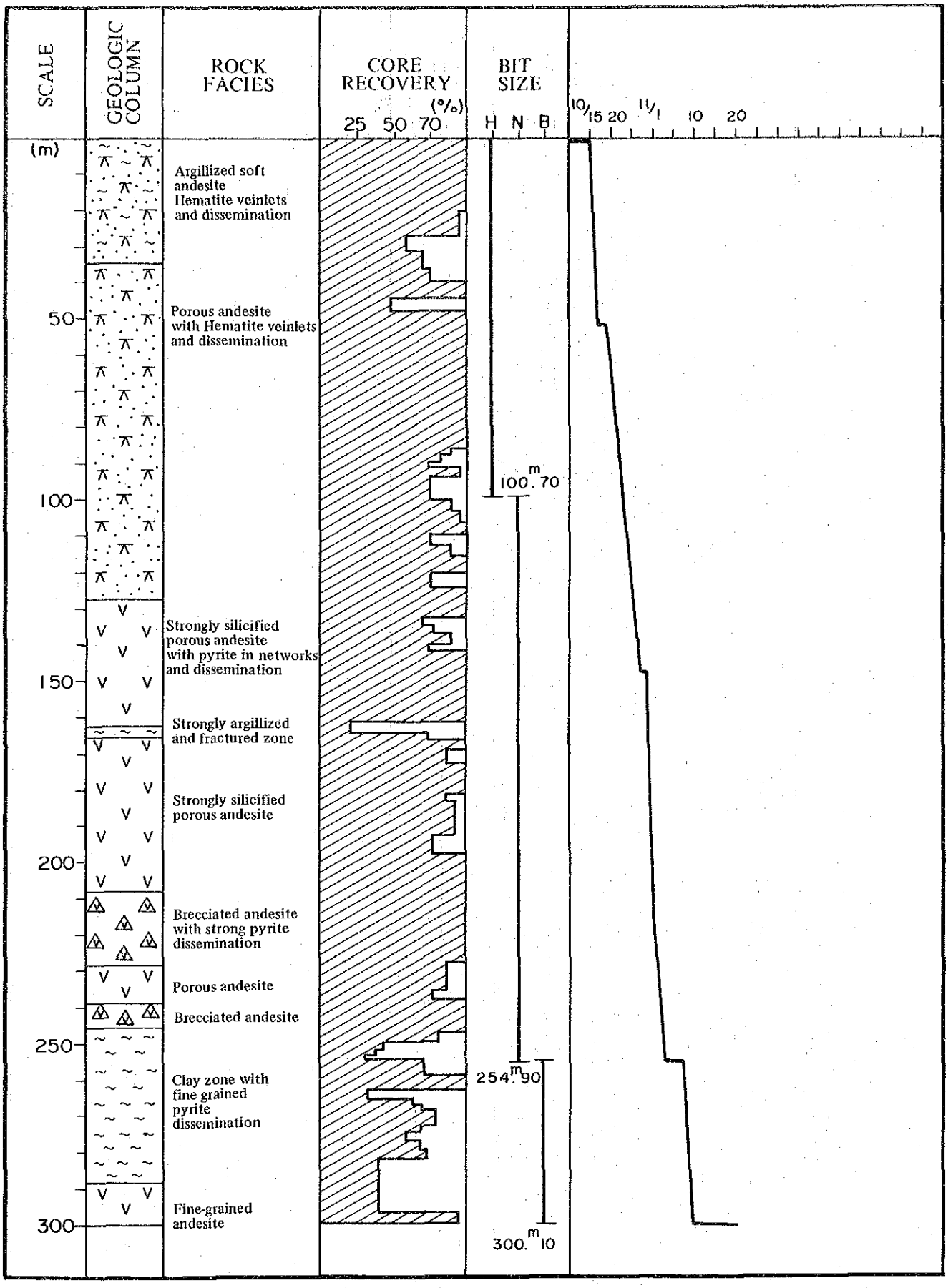


APX. 8–3 Histograms and Cumulative Frequencies, Geochemical Survey, Nipa Area, 1992

APX. 9–1 Drill Progress

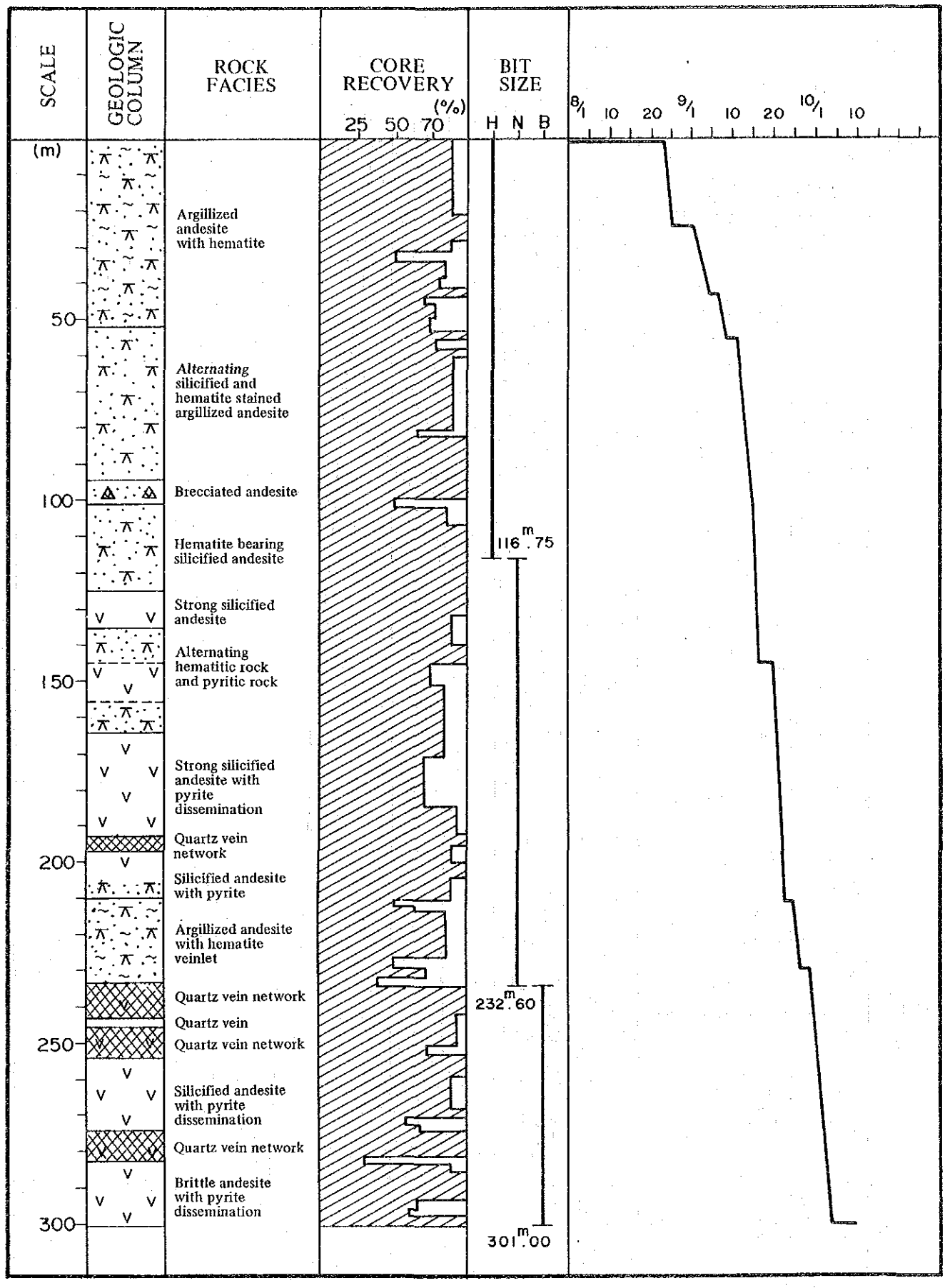
Drill Number	1992 August	1992 September	1992 October	1992 November	1992 December
MJPP-1 (300.1m)			15 ———	——— 3	
MJPP-2 (301.0m)	24 ———	———	——— 4		
MJPP-3 (300.15m)				4 ———	——— 8
MJPP-4 (300.0m)		10 ———	———	——— 21	
MJPP-5 (300.91m)				1 ———	——— 2
MJPP-6 (305.1m)	10 ———	———	———	——— 1	

MJPP–1



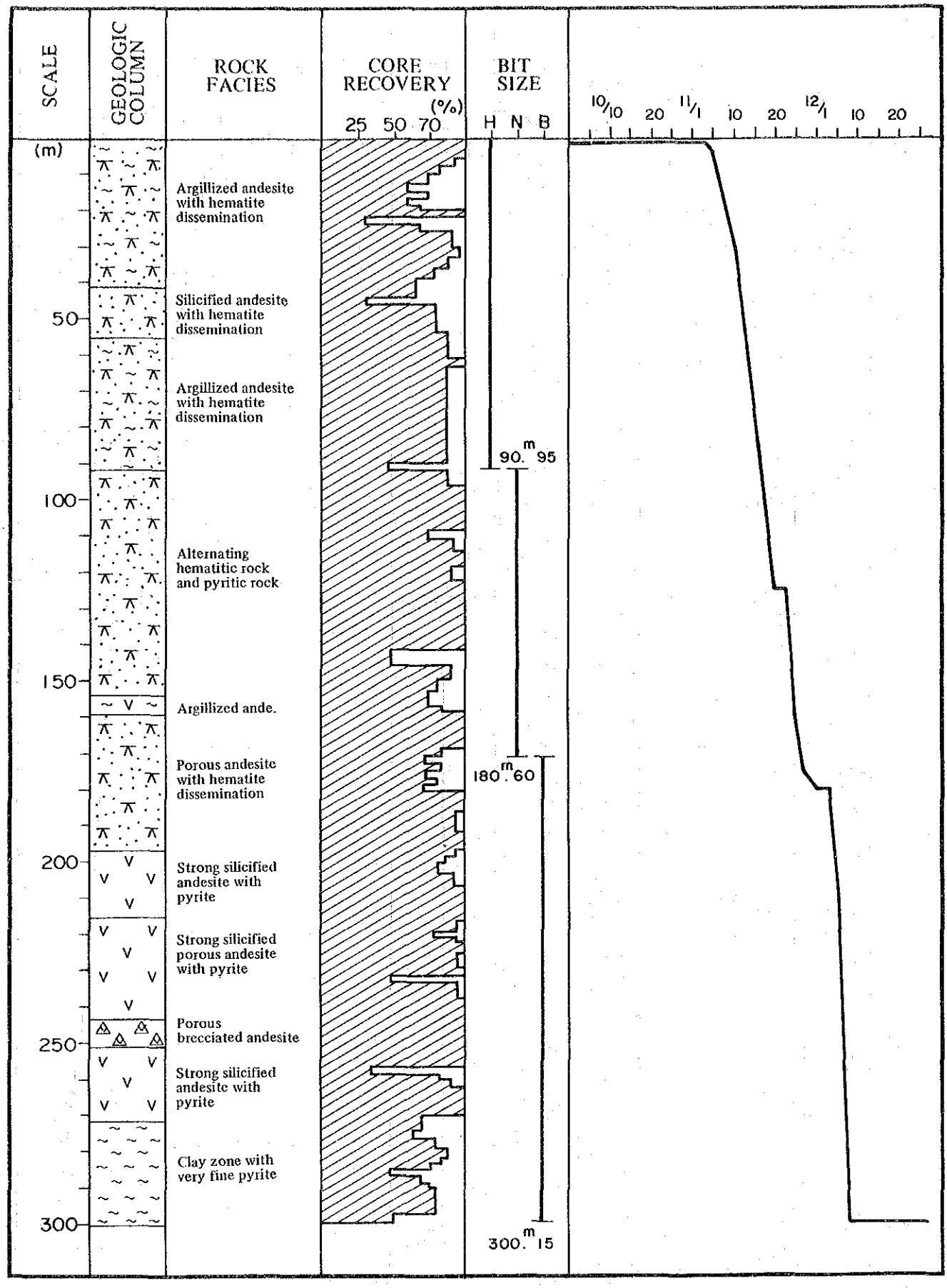
APX. 9–2–1 Drill Progress

MJPP–2



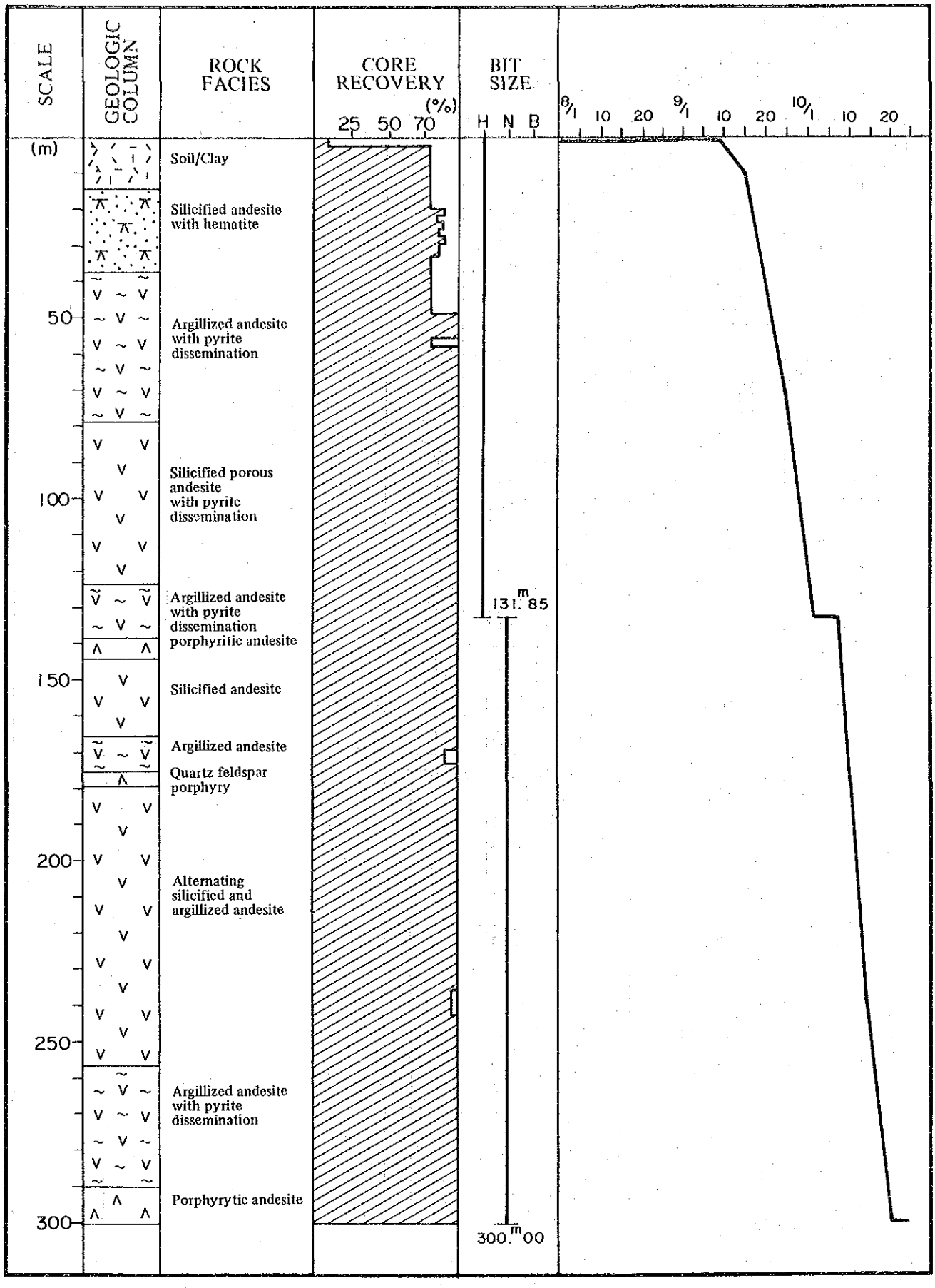
APX. 9–2–2 Drill Progress

MJPP–3



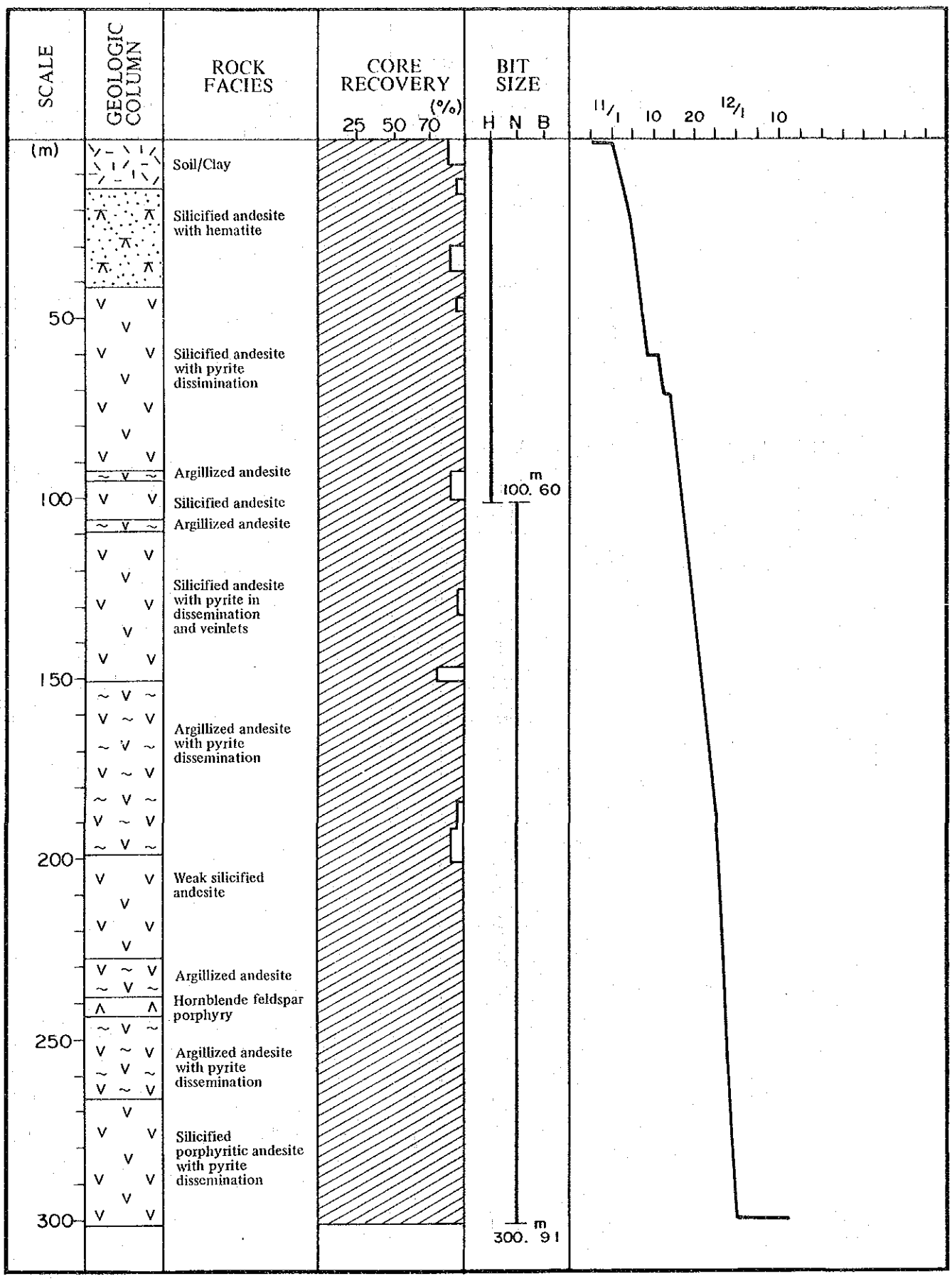
APX. 9–2–3 Drill Progress

MJPP–4



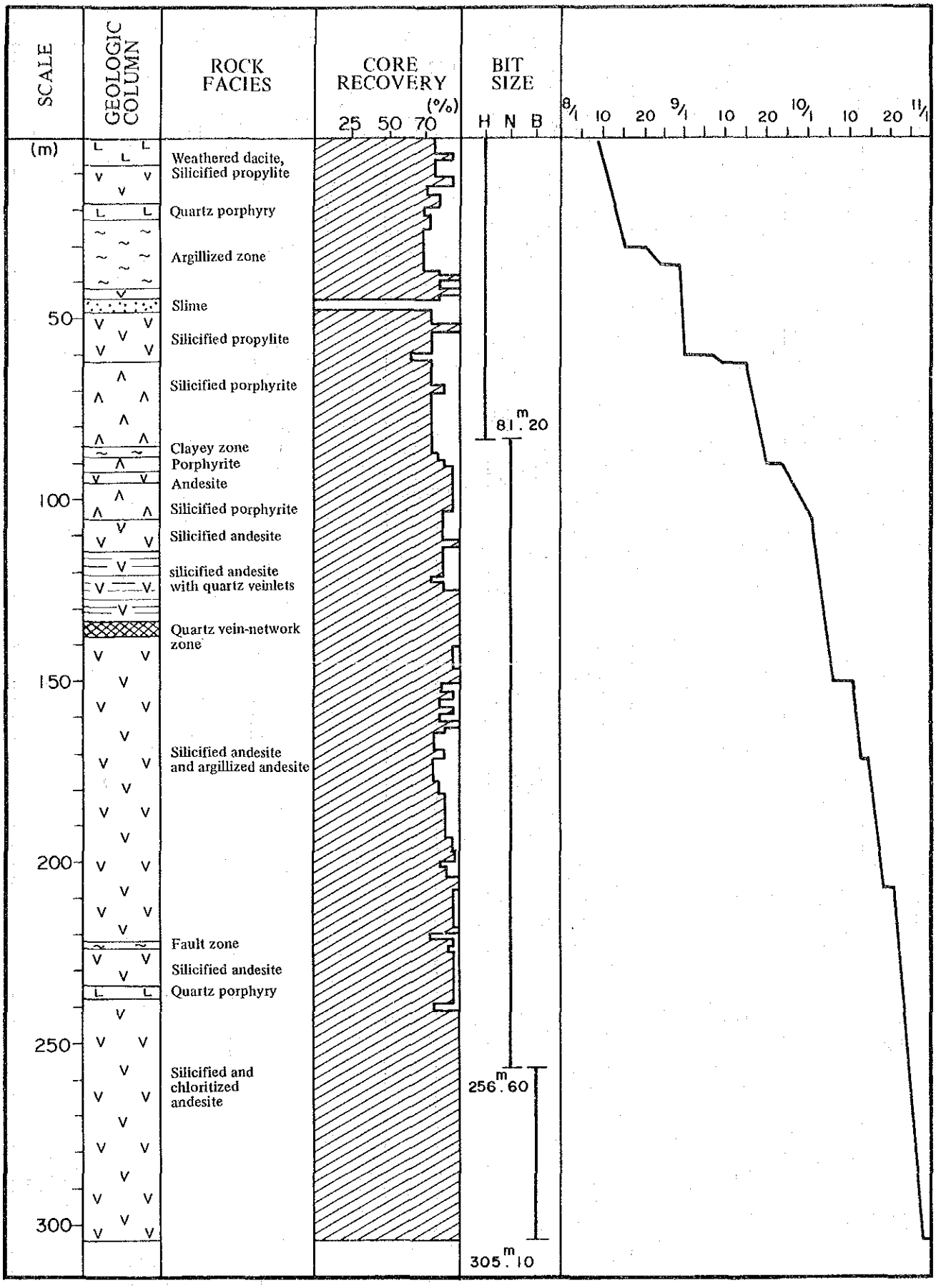
APX. 9–2–4 Drill Progress

MJPP–5



APX. 9–2–5 Drill Progress

MJPP–6



APX. 9–2–6 Drill Progress

APX. 10–1 Drilling Equipments

ARTICLE	MODEL	SPECIFICATION	QUANTITY
Drilling Machine 1 Make: English Drill Co.	Stratadrill	Capacity- 250M HQ, 350M NQ, 450M BQ Inner Diameter of Spindle- 3" or 76 mm. Spindle Speed- Low 30-160, M,OH, 200-1000 RPM Weight- 1,500 kg.	1 unit
Engine Make: Klockner-Humboldt-Deutz(KHD)	F3L912 Diesel	Revolution- 2,200 RPM Rated Power- 40 HP No. of cylinder - 3	1 unit
Drilling Pump 1 Make: Longyear Company	Bean Royal 535 HQ	Type- Triplex Capacity- (Max.)- Continuous - 56 kg./cm² Intermittent - 70 kg./cm²	1 unit
Engine Make: KHD	F2L912 Diesel	Revolution- 2,200 RPM No. of cylinder -2 Rated Power- 27 HP	1 unit
Supply Pump Make: Tone Boring Co.	NAS-3	Type- Duplex Capacity- (Max.)- 130 lit/min. Pressure- (Max.)- 52 kg./cm²	1 unit
Engine Make: Yanmar	F-8 Diesel	Revolution- 2,400 RPM No.of cynlinder -1 Rated Power- 8 HP	1 unit
Drilling Machine 2 Make: Tone Boring Co.	TDC-2	Capacity- HQ 210M, NQ 310M, BQ 400M Inner Dia. of Spindle- 92 mm. Spindle Speed- 165 - 1,000 RPM Weight- 1,900 kg.	1 unit
Engine Make: KHD	F4L912 Diesel	Revolution- 2,200 RPM No. of cylinder - 4 Rated Power- 54 HP	1 unit

APX. 10–2 Drilling Equipments

ARTICLE	MODEL	SPECIFICATION	QUANTITY
Drilling Pump 2 Make: Longyear Company	Bean Royal 535 RQ	Type- Triplex Capacity- 140 lit/min. Pressure Max.- Continuous - 56 kg./cm² Intermittent- 70 kg./cm²	1 unit
Engine Make: Isuzu	C-190 Diesel	Revolution- 3,600 RPM No. of cylinder - 4 Rated Power- 60 HP	1 unit
Supply Pump Make: Longyear Company	Bean Royal 520 RQ	Type- Triplex Capacity- 76 lit/min. Pressure- Continuous - 42 kg./cm² Intermitent - 49 kg./cm²	1 unit
Engine Make: Yanmar	Yanmar F8 Diesel	Revolution- 2,400 RPM No.of cylinder - 1 Rated Power- 8 HP	1 unit
Drilling Machine 3 Make: Longyear Company	Longyear 38	Capacity- HQ 375M, NQ 575M, BQ 725M Inner Dia. of Spindle- 98 mm. Spindle Speed- Low Range 51-325 RPM, High Range, 211 - 1,350 RPM Weight- 1,460 kg.	1 unit
Engine Make: Mitsubishi	4 DR 5 Diesel	Revolution- 3,700 RPM Rated Power- 80 HP	1 unit
Drilling Pump 3 Make: Longtear Company	Bean Royal 535 RQ	Type- Triplex Capacity- (Max.)- 140 lit/min. Pressure- (Max.)- Continuous - 56 kg./cm² Intermittent - 70 kg./cm²	1 unit
Engine Make: KHD	F2L912 Diesel	Revolution- 2,200 RPM No.of cylinder - 2 Related Power- 27 HP	1 unit

APX. 10–3 Drilling Equipments

ARTICLE	MODEL	SPECIFICATION	QUANTITY
Supply Pump 3 Make: Longyear Company	Bean Royal 535 RQ	Type- Triplex Capacity- 140 lit/min. Pressure Max.- Continuous - 56 kg./cm^2 Intermittent- 70 kg./cm^2	1 unit
Engine Make: KHD	F1L912 Diesel	Revolution- 2,200 RPM No.of cylinder - 1 Rated Power- 15 HP	1 unit
Drilling Machine 4 Make: Longyear Company	Longyear 34	Capacity - HQ 225M, NQ 325M, BQ 425M Inner Dia. of spindle- 98mm Spindle speed -Low 20-124 RPM, High, 211-1,350 RPM Weight-1,460 kg	1 unit
Engine Make: KHD	F3L912 Diesel	Revolution- 2,200 RPM No.of cylinder - 3 Rated Power-40 HP	1 unit
Drilling Pump 4 Make: Longyear Company	Bean Royal 535 RQ	Type - Triplex Capacity- 140 lit/min. Pressure Max.-Continuous - 56 kg./cm^2 Intermittent- 70 kg./cm^2	1 unit
Engine Make: KHD	F1L912 Diesel	Revolution- 2,200 RPM No.of cylinder - 1 Rated Power- 15 HP	1 uint
Drilling Pump 4 Make: Tone Boring Co.	MAS -100	Type- Duplex Capacity- (Max.)- 130 lit/min. Pressure- (Max.)- 52 kg./cm^2	1 unit
Engine Make: KHD	F1L912 Diesel	Revolution- 2,200 RPM No.of cylinder - 1 Related Power- 15 HP	1 unit

APX. 10–4 Drilling Equipments

ARTICLE	MODEL	SPECIFICATION	QUANTITY
Wireline Hoist		Attached to each drilling machine- 300m	4 set
Mast		HQ Rod Structral Derrick- 6.0 m Rod Pull-out	1 set
Inclined Mast		HQ Rod Structual Derrick- 6.0 m Rod Pull-out	3 sets
Core Barrel Assembly		HQ Size NQ Size BQ Size	5 pcs. 5 pcs. 5 pcs.
Drill Rod	Wireline Rod	HQ Wireline - 121 pcs. NQ Wireline - 304 pcs. BQ Wireline - 255 pcs.	121 pcs. 304 pcs. 255 pcs.
Drill Casing		HW Casing - 52 pcs. NW Casing - 150 pcs. BW Casing - 120 pcs.	52 pcs. 150 pcs. 120 pcs.
Mixer	Tone Rig-200	Gasoline Engine - Robin Single Piston - 6 HP	1 set
Water Supply Pipes		1 inch. Polyehtylene 1 inch. Galvanized Iron Pipes (Sch. 40)	800 M 800 M

APX. 11 Material Consumption of Drilling

ARTICLE	Unit	MJPP-1	MJPP-2	MJPP-3	MJPP-4	MJPP-5	MJPP-6
Diamond Bit (HQ)	pcs.	2	2	2	4	2	7
(NQ)	pcs.	3	2	3	1	2	10
(BQ)	pcs.	1	1	2	-	-	2
Reamer Shell(HQ)	pcs.	1	1	1	1	1	2
(NQ)	pcs.	1	1	1	1	1	3
(BQ)	pcs.	1	1	1	-	-	2
Metal Crown (HX)	pcs.	1	1	-	1	-	2
(NX)	pcs.	1	1	-	1	-	1
(EX)	pcs.	0	-	-	-	-	-
Core Lifter (HQ)	pcs.	4	3	2	3	3	6
(NQ)	pcs.	4	5	2	3	2	9
(BQ)	pcs.	2	1	3	-	-	3
Core Lifter Case (HQ)	pcs.	2	1	1	1	1	2
(NQ)	pcs.	2	2	1	1	1	3
(BQ)	pcs.	1	1	0	-	-	1
Core Box (HQ)	pcs.	24	22	23	26	21	24
(NQ)	pcs.	16	19	16	23	30	23
Drilling mud (50kg/bag)	bags	20	46	12	3	10	16
Diesoline (Drill & Pump)	ltrs.	1,840	2,247	1,945	2,764	2,085	1,925
Gasoline	ltrs.	62	73	64	-	-	-
Engine Oil	ltrs.	36	55	60	23 1/4	30.45	49
Grease	kg.	10 1/4	22	17 1/4	8	4	17
Cement	bags	-	12	2	-	-	11
Hydraulic Oil	ltrs.	60	60	60	70	40	65

APX. 12 Detailed Geologic Log, MJPP-1

Drillhole No.: MJPP-1
Location: Brgy. Capinang, San Dionisio

HQ size core; initial three (3) meter sample is highly fragmented; argillized rock; generally buff to cream with red brown to brown, hematite impregnations; locally vuggy or porous with manganese stains; near surface section (1 to 2 m) tends to be chalky in texture, powdery when dry and permeable when wet.

3.0 to 5.1 m section: Generally solid section of argillized rock; brown to red brown color with patches or bands of cream; porous texture with numerous vugs and microfractures lined by hematite and manganese (?).

5.1 to 6.3 m section: Hematite-limonite stained portion passes on to generally unoxidized, slightly argillized andesite; gray to bluish gray color; fine grained; microveinlets/veinlets of quartz and pyrite are widespread in this section; pyrite is very fine-grained and is also common as surface coatings of vugs; the hematite/limonite in the upper section is derived from the oxidation of pyrite as seen in some portions.

6.3 to 9.5 m section: Argillized and highly oxidized andesite; variegated color of buff, red and purplish brown; microfractures, veinlets and vugs commonly hematite stained or lined; dendritic projections of hematite veinlets noted locally; pockmarked portions may indicate former pyrite rich clusters left empty after the oxidation and leaching of pyrite; core sample is locally fragmented.

9.5 to 12.4 m section: Continous with previous section but generally more solid and intact; variably argillized with local portions almost totally clayey in texture; red to purplish brown bands and patches contrast sharply with the buff colored groundmass; dendrite-like veinlets of hematite and hematite-lined microfracturesform boxwork patterns in some portions.

12.4 to 15.5 m section: Mainly the same characteristics as previous section with hematite encrustation still very much pronounced; color patterns vary from mottled

to patchy and dendritic-like; traces of corroded sulfides locally observed but is generally rare.

15.5 to 17.9 m section: More of essentially the same material as the previous section; highly argillized, hematite encrusted andesite; highly fragmented especially in the lower portions where the rockmass is almost powdery; purplish brown hematite distinctly visible as swirling bands or dendrites in a buff to cream matrix of argillized material.

17.9 to 21.9 m section: Continous with previous section but is more solid and intact; rock mass appears porous due to the proliferation of pockmarks and vugs in some portions; highly argillized parts tend to be very fragile and fragmented; sections rich in hematite tend to be more competent and intact.

21.9 to 24.9 m section: Essentially continuous with previous section; sponge-like texture of the rockmass prominent in some portions; hematite encrustation still very pronounced especially along veinlets and fractures; red brown color tend to dissipate from these cracks towards the groundmass; short (approx. 10 cm) sections of highly argillized rock also noted.

24.9 to 28.0 m section: Brown to purple brown, argillized andesite; locally fragmented and clayey; short sections were noted to contain irregularly shaped voids partly filled up with crumbly and sandy material; fracture surfaces tend to be lined with a thin film of manganese (?) material.

28.0 to 31.8 m section: Highly fragmented section of argillized and hematite stained andesite; brown to purple brown color, generally fine-grained; sponge-like texture again noted in some portions; rock mass is porous and permeable and tends to be crumbly.

31.8 to 34.6 m section: Continuous with previous section in terms of rock type and character; still very fragmented, almost soil-like in texture; fragments of rock with sponge-like texture are commonly encountered in this section.

34.6 to 37.5 m section: Continous with previous section; still argillized and hematite/limonite stained rock; red brown to purple brown color; powdery to crumbly texture; hematite/limonite stains most prominent along fracture or veinlet surfaces.

37.5 to 40.6 m section: Relatively more intact and solid than the previous section; hematite/limonite stains still very prominent; numerous microfractures lined with hematite are found throughout the section; pockmarked and sponge-like textured portions are notable; groundmass is mainly quartz and clay with practically all mafic minerals leached out; rock mass is still very porous and permeable, tends to be highly absorbent of water.

40.6 to 42.1 m section: Essentially similar to the previous section; argillized and hematite/limonite stained rock; rock mass tends to be fragile and crumbly resulting in a generally fragmented core sample; minute fractures and veinlets in the rock are clearly visible because of the hematite/limonite stains.

42.1 to 45.7 m section: Continous with previous section; rock texture is generally spongy and vuggy; Hematite/limonite stains still very distinct and pervasive; the core sample is relatively intact and solid but fragmented portions also noted; color banding of buff/cream, red and brown has resulted in a colloform-like pattern in the rock.

45.7 to 49.3 m section: Relatively solid core sample; buff to cream, argillized andesite with streaks and bands of red brown to purple brown hematite/limonite; spongy texture still noted but becomes less defined down section; rock mass feels gritty to powdery when dry and smooth when wet; numerous microveinlets and fractures stained by hematite/limonite are locally observed; they tend to vary in both size and orientation.

49.3 to 52.3 m section: Continous with previous section; generally intact and solid core sample; argillized hematite/limonite impregnated rock; spongy to

powdery texture; porous and permeable; brown red, ochre and purple colors form swirling bands and streaks across the rock mass.

52.3 to 54.9 m section: More of the same material as the previous section; variably fragmented core; hematite/limonite impregnations still dominant and pervasive; rock texture range from being spongy to chalk-like.

54.9 to 59.2 m section: Argillized andesite; fine-grained; hematite/limonite impregnations conspicuous as ochre, red and purple stains in a buff colored groundmass; rock mass is locally pitted resulting in its spongy appearance; chalk-like texture also noted in some portions; core sample is generally solid and intact except in the lower section where fragmentation is more intense.

59.2 to 62.2 m section: Essentially continuous with previous section; highly argillized rock stained by hematite/limonite; ochre, red and purple display coloform-like patterns in a generally buff to cream colored groundmass; rock mass retains its porous and permeable character; fragmentation of the core is very slight and tends to follow locally the fracture or shear orientations.

62.2 to 65.1 m section: Continuous with previous section but the color pattern is not distinctive; it is lighter in color and the various colors tend to merge or coallesce; quartz microveinlets locally noted but is generally rare; rock mass appears more massive although locally still pitted and porous.

65.1 to 68.0 m section: Continuous with previous section; generally massive and intact in the upper 2 meters becoming fragmented down section; colloform-like colour pattern noted only in one portion; in the rest of the section, the colors tend to coallesce with one another; rock mass is generally homogenous in texture with only minor and local pitted portions noted.

68.0 to 71.2 m section: Essentially the same materials

in terms of rock type and character as the previous section; variably fragmented although relatively massive and intact; rock texture ranges from being spongy and pitted to dense; hematite/limonite stains of ochre, red and purple still very distinct.

71.2 to 75.2 m section: Essentially a 4 meter long section of almost completely solid and intact core sample; argillized and variably silicified rock impregnated by hematite/limonite; rock mass is dense to spongy and is still commonly porous and permeable; color patterns also very variable ranging from mottled to patchy and colloform-like with distinct bands/streaks of ochre, red and purple; local fractures and veinlets are noted to have the most striking colors.

75.2 to 78.2 m section: Continuous with the previous section; still generally solid and intact core sample; variably argillized and silicified andesite impregnated by hematite/limonite; rock mass appears dense although locally can be spongy and pitted; porous and very permeable portions are highly absorbent of water; color patterns vary from mottled to patchy with islands of buff to white floating in a purplish brown mass.

78.2 to 81.2 m section: Essentially continuous with the previous section; almost solid and intact 3 meter long core sample; variably argillized and silicified, hematite encrustated andesite; argillized portions tend to be chalk-like in texture and water absorbent; they are also more bleached; the more silicified sections tend to be dense and the contrast in colors more distinct and striking; hematite/limonite stains or impregnations are noted to emanate from microfractures and veinlets and tend to permeate the surrounding groundmass.

81.2 to 84.2 m section: Variably argillized and silicified rock; dense to spongy texture, chalk-like where argillization is intense; color variations tend to be most striking in the highly pitted or spongy portions and along intervals with numerous microfractures or veinlets; fragmentation of the core sample is slight and is common in the most argillized parts.

84.2 to 87.2 m section: Continuous with previous section but is more intensely oxidized and hematite/limonite impregnated, especially in the midsection (85.5 to 86.2m) ; color variations of ochre, red, purple and cream are most striking along the most oxidized portions which roughly coincides with the intensely argillized interval; this portion is almost gossanous in character except for the presence of the clay minerals.

87.2 to 91.4 m section: Continuous with the previous section; variably argillized and silicified, almost gossanous material; intensely oxidized and rusted with very local portions almost totally limonitic; the core is variably fragmented with the same silicified portions surviving as intact sections; practically the entire mafic constituent of the rock had been leached out leaving only the more siliceous materials as skeletal networks.

91.4 to 94.4 m section: The highly oxidized, gossanous section continues for about 1.5 meters (91.4m to 93m), then passes on to a less intensely altered material of variably argillized and silicified rock; the lower section is essentially solid and intact which contrast sharply with the fragmented character of the overlying mass; microfractures and veinlets are clearly visible because of the hematite/limonite impregnations; these have given rise to dendritic features in the groundmass.

94.4m to 97.4m section: continous with previous sections; generally argillized and silicified andesite oxidized in varying degrees to a hematite /limonite impregnated mass; a short 17 cm interval (94.7m to 94.87m) of relatively fresh or unoxidized rock is noted along the section; it is mainly silicified andesite with probably most of the mafic minerals altered to pyrite which make up around 10 to 15% of the rock mass; oxidation has corroded the peripheral portions of the pyrite clusters into limonite; much of the original plagioclase has also been altered to clay (kaolinite); the oxidized portions of this section retains the characteristics earlier noted in the previous sections.