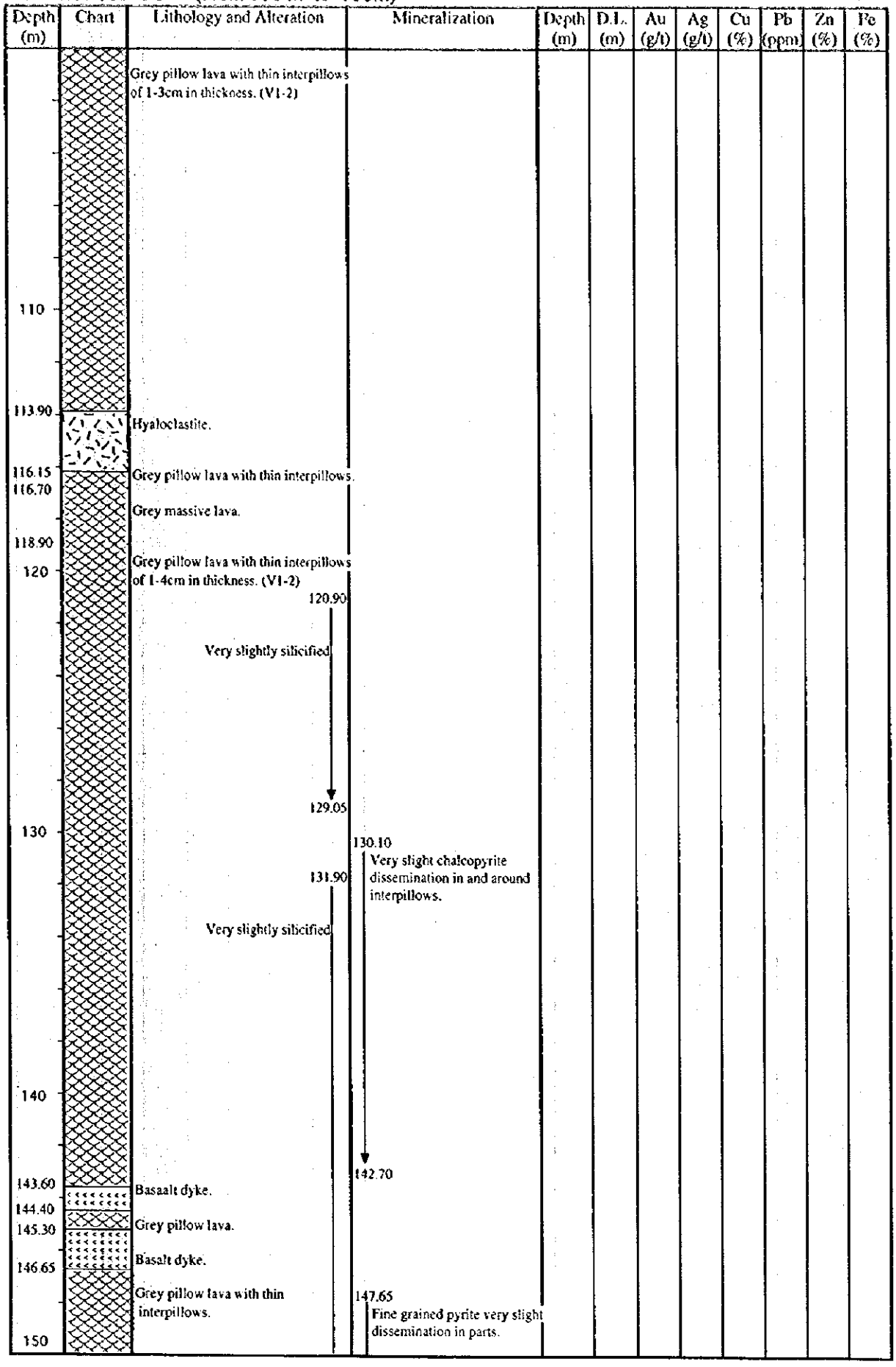
Hole No. MJOB- D5 (From 0 m to 50m)

Depth (m)	Chart	Lithology and Alteration	Mineralization	Depth (m)	D.L. (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (ppm)	Zn (%)	Fe (%)
0.50		Sludge Unconsolidared alluvial deposits									
1.50		Pale brownish grey weathetd pillow lava.									
10											
10.40		Grey basalt dyke.									
12.00		Grey vesiculous pillow lava with thin interpillows of 1-2cm in thickness. (V1-2)									
20											
30											
36.70											
37.00		Grey basalt dyke.									
40		Grey vesiculous pillow lava with thin interpillows of 1-2cm in thickness. (V1-2)									
50											

Hole No. MJOB-D5 (From 50 m to 100m)

Depth (m)	Chart	Lithology and Alteration	Mineralization	Depth (m)	D.L. (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (ppm)	Zn (%)	Fe (%)
		Grey vesiculous pillow lava with thin interpillows of 2-4cm in thickness. (V1-2)									
		55.80-59.00 With small pillows of 5-20cm in size.									
59.00											
60		Grey to dark grey massive lava.									
62.05		Grey vesiculous pillow lava with thin interpillows.									
63.00		Grey massive lava.									
65.05		Grey to dark grey pillow lava.									
68.10		Grey massive lava.									
70											
70.20		Grey to dark grey pillow lava.									
71.40		Doleritic basalt dyke.									
72.75		Grey vesicular pillow lava; fractured. With calcite network.									
77.70		Grey massive lava with sparse epidote fine veinlets.									
80											
81.65		Grey pillow lava with thin interpillows of 1-3cm in thickness. (V1-2)									
		81.65-92.25 Jaspar in interpillows.									
90											
100											

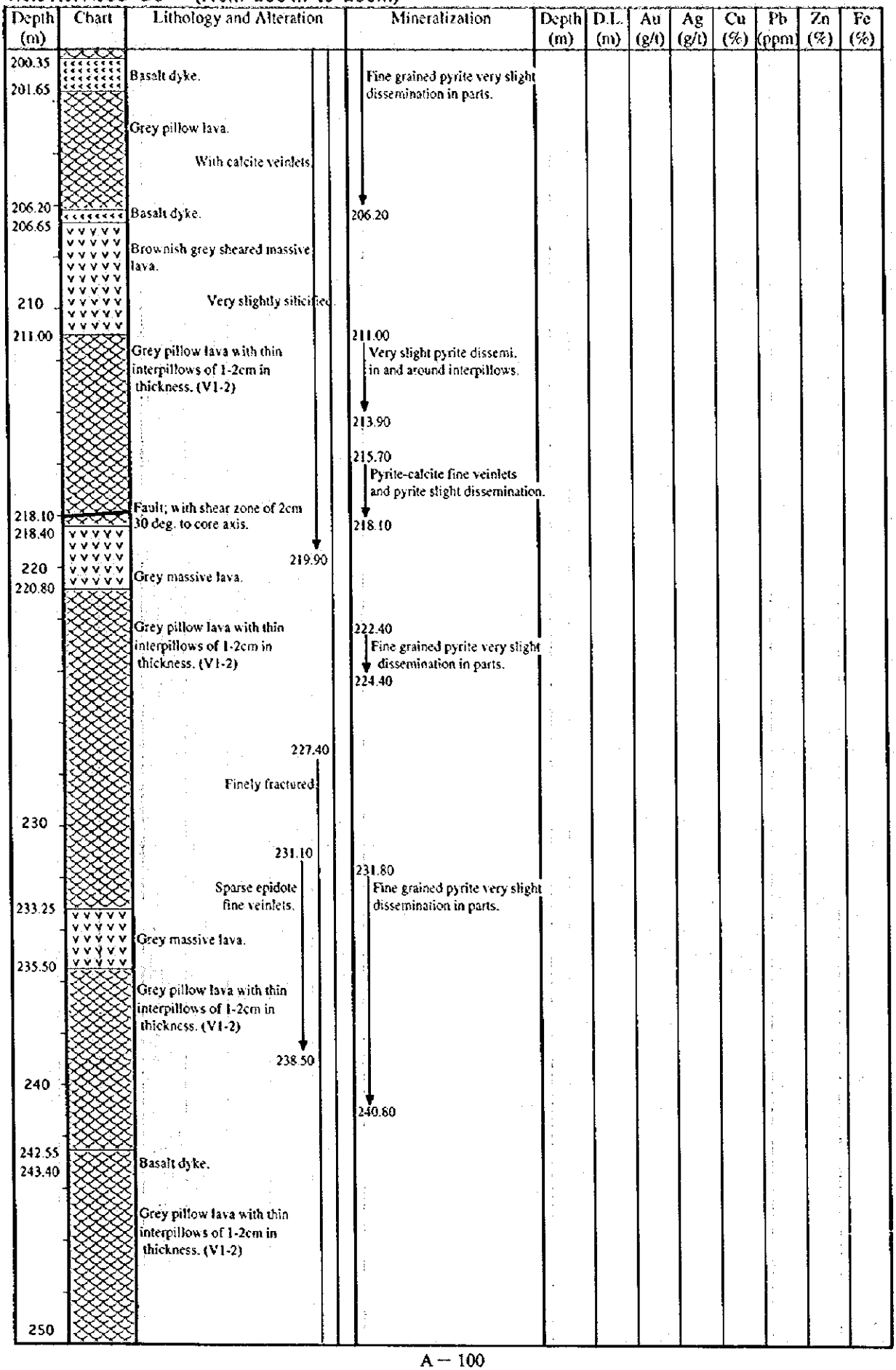
Hole No. MJ0B- D5 (From 100 m to 150m)



Hole No. MJOB- D5 (From 150 m to 200m)

Depth (m)	Chart	Lithology and Alteration	Mineralization	Depth (m)	D.L. (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (ppm)	Zn (%)	Fe (%)
		Grey pillow lava with thin interpillows.	Fine grained pyrite very slight dissemination in parts.								
		Very slightly silicified.									
154.25											
		Grey massive lava.									
156.10											
		Grey pillow lava with thin interpillows of 1-2cm in thickness. (V1-2)									
		159.65-160.15 Sheared zone.									
160		160.15-162.40 Fractured. With calcite fine network.									
			162.50								
170											
177.20											
177.95		Basalt dyke.									
		Grey pillow lava with thin interpillows of 1-2cm in thickness. (V1-2)									
180											
183.15		Basalt dyke.									
183.45											
		Grey pillow lava with thin interpillows of 1-2cm in thickness. (V1-2)									
		Very slightly silicified.									
190											
			191.10								
			Fine grained pyrite very slight dissemination in parts.								
200		198.75 With calcite veinlets.									

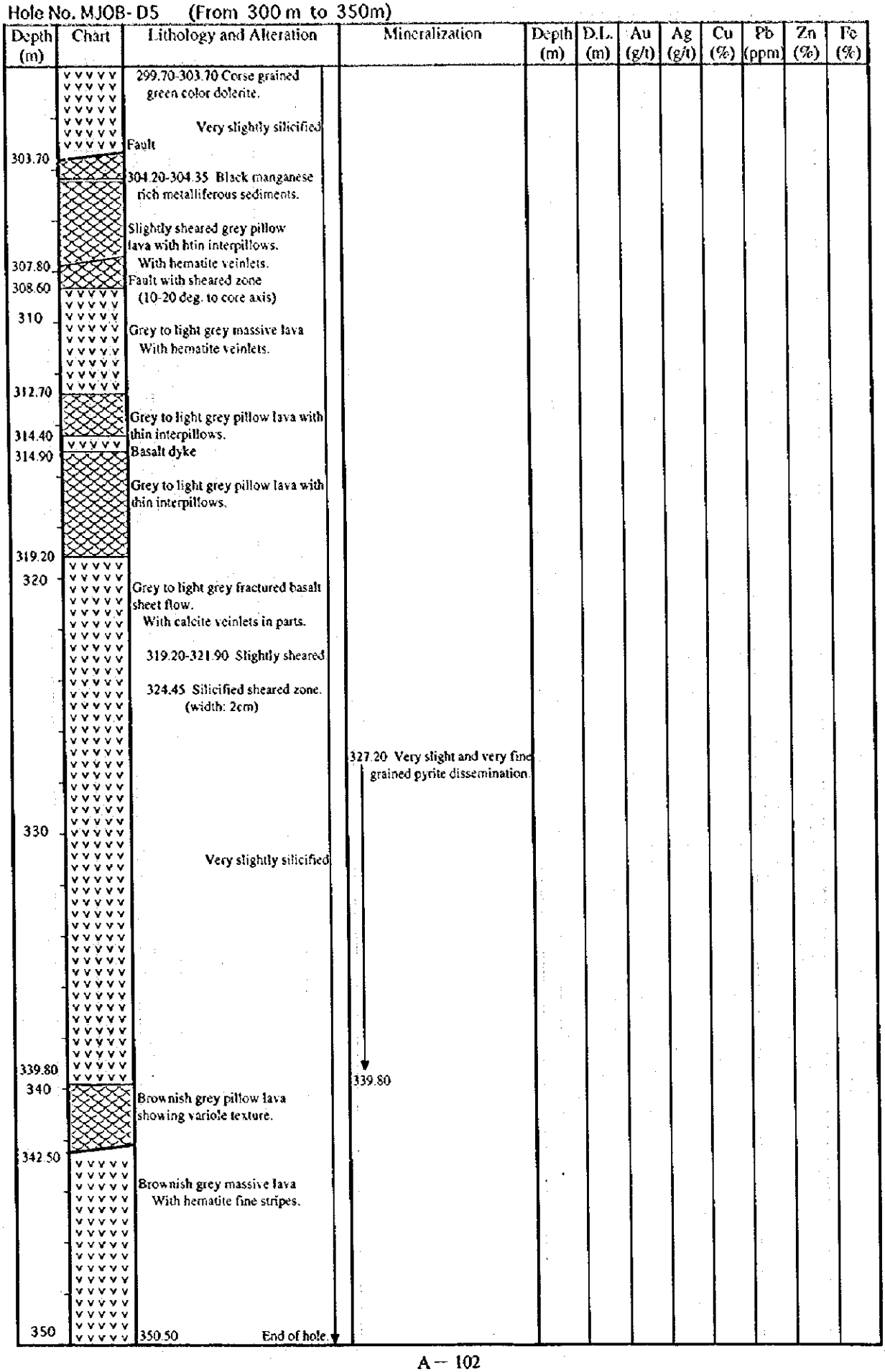
Hole No. MJOB- D5 (From 200 m to 250m)



Hole No. MJOB- D5 (From 250 m to 300m)

Depth (m)	Chart	Lithology and Alteration	Mineralization	Depth (m)	D.L. (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (ppm)	Zn (%)	Fe (%)
		Grey pillow lava with thin interpillows of 1-2cm in thickness. (V1-2)									
		Finely fractured.									
256.00		Grey massive lava.									
258.25		258.50									
		Grey pillow lava with thin interpillows.									
260		260.15									
		With sparese epidote fine veinlets.									
261.90		Grey massive lava.	264.15 Very slight pyrite dissemination.								
			265.40								
		267.30									
268.45		Grey pillow lava.									
270		269.70-269.90 Basalt dyke.									
		Very slightly silicified.									
		Grey pillow lava. Vesiculars were filled by hematite.									
276.80		Grey doleritic basalt sheet flows.									
177.95		277.60-277.75 Basalt dyke.									
		Grey doleritic basalt sheet flows.									
280		282.00-282.25, 282.50-282.60 Silicified sheared zone.									
		283.35-283.45 Basalt dyke.									
		Grey doleritic basalt sheet flow.									
		287.30-287.40 Sheared zone.									
288.20		Fault with sheared zone(width; 20 -30 cm), 10-20 deg. to core axis.									
		289.10-289.30 Basalt dyke.									
290		Grey doleritic basalt sheet flow.									
		292.65-292.95 Basalt dyke.									
		Grey doleritic basalt sheet flow.									
294.70		Basalt dyke.									
295.40		Basalt dyke.									
296.55		Grey basalt sheet flow.									
300		299.70-303.70 Corse grained green color dolerite.									

Hole No. MJOB- D5 (From 300 m to 350m)



Depth (m)	D.L. (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (ppm)	Zn (%)	Fe (%)

Hole No. MJOB- Q 1 (From 0 m to 50m)

Depth (m)	Chart	Lithology and Alteration	Mineralization	Depth (m)	D.L. (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (ppm)	Zn (%)	Fe (%)
1.00		Sludge Weathered pillow lava.									
6.50		Pale greenish grey pillow lava with weathered and fractured parts.	5.70 Slight pyrite dissemination (oxidized)								
10											
12.80		Light greenish grey pillow lava.									
14.35		Basalt dyke.	14.35								
14.95		Light greenish grey pillow lava with thin interpillows(2-5cm). Epidote dominant in interpillows. With many vesicles filled by calcite, epidote and pyrite.	15.10 Slight pyrite dissemination.								
20			20.20 Intense pyrite dissemination.								
23.50		Greenish grey massive lava.	22.40 Slight pyrite dissemination. With sphalerite and chalcopyrite in vesicles.								
25.65		Light greenish grey pillow lava with thin interpillows(2-5cm).	22.65								
27.10		Greenish grey doleritic massive lava (sheet flow).	27.10 Slight pyrite dissemination with pyrite fine veinlets.								
30		Basalt dyke.	28.65 With slight sphalerite dissemination.								
		Greenish grey doleritic massive lava (sheet flow).	31.00								
33.00		Greenish grey pillow lava with many vesicles filled by calcite.	33.10 With slight sphalerite dissemination.								
39.95											
40		Greenish grey basalt massive lava.									
46.10		Light grey pillow lava with many vesicles filled by calcite.	45.85								
50											

Hole No. MJOB- Q1 (From 50 m to 100m)

Depth (m)	Chart	Lithology and Alteration	Mineralization	Depth (m)	D.L. (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (ppm)	Zn (%)	Fe (%)
		Light grey pillow lava. 50.10	Slight pyrite dissemination with pyrite fine veinlets.								
		Epidote in interpillows.									
53.65		Basalt dyke.									
54.20		54.60	54.60 Sphalerite slight disseni. with chalcopyrite dissemi. in places.								
		Slightly silicified									
		57.60									
		59.30	59.00								
59.30											
60		Light grey basalt massive lava.									
61.40		Greenish grey to light grey pillow lava.									
		65.90-69.35 Epidote dominant in interpillows.									
		65.90	66.30-77.30 Sphalerite slight disseni. with chalcopyrite dissemi.								
		Slightly silicified									
69.35		70.00									
70		Light grey to grey vesiclar massive lava.									
71.85											
72.75		Grey vesiclar pillow lava; epidote dominant in interpillows and vesicles.									
		74.75-75.15 Basalt dyke.									
		Grey vesiclar pillow lava; epidote dominant in interpillows and vesicles.									
77.70		Grey vesiclar massive lava.									
79.20		Basalt dyke.									
80											
81.00		Grey vesiclar massive lava.									
82.30		Grey to light grey vessiclar pillow lava; epidote in interpillows.									
		84.20-84.35 With silicified interpillows.									
86.35		Grey vesiclar massive lava.									
87.60		Grey basalt dyke.									
90											
91.85		Light grey vesiclar massive lava. Vesicles filled by calcite, epidote.									
		93.55-93.70 Basalt dyke.									
94.20		Basalt dyke.									
95.20		Basalt dyke.									
95.70		Light grey vesiclar pillow lava.									
100		99.50 Grey basalt massive lava.									

Hole No. MJOB-Q1 (From 100 m to 150m)

Depth (m)	Chart	Lithology and Alteration	Mineralization	Depth (m)	D.L. (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (ppm)	Zn (%)	Fe (%)
100.90		Grey basalt massive lava.	Pyrite slight dissemination.								
101.45		Grey vesicular pillow lava.									
		Greenish grey doleritic basalt dyke.									
		103.45-103.75 Grey pillow lava.									
104.55		Basalt dyke.									
		Grey basalt massive lava.									
		105.65-105.80 Basalt dyke.									
		Grey basalt massive lava.									
107.20		Grey vesicular pillow lava.									
		108.40-109.10 Basalt dyke.	108.40-108.90 With pyrite fine veinlets.								
109.45		109.45-110.30 Basalt dyke.									
110		Grey to light grey vesicular massive lava; vesicles filled by epidote, calcite and pyrite.									
112.10		Basalt dyke.	112.10 Very slight pyrite dissemi.								
113.05		Basalt dyke.									
114.55		Basalt dyke.	114.55 Moderate intense pyrite dissemination and pyrite fine veinlets.								
119.35		Light grey vesicular pillow lava.									
120											
123.80		Light greenish grey chloritized pillow lava; most of vesicles were filled by chlorite.	123.80 123.80 Slight pyrite dissemination in places.								
		Slightly silicified									
130											
134.40		134.40-135.05 Basalt dyke.	134.40								
135.05		Greenish grey vesicular massive lava; vesicles filled mostly by chlorite.									
139.60			139.60 139.60 Pyrite slight dissemination.								
140		Greenish grey doleritic dyke. (10 deg. to core axis)									
148.30			148.30 Moderate intense pyrite dissemination.								
150		Light grey to grey vesicular pillow lava.									

Hole No. MJOB- Q1 (From 150 m to 200m)

Depth (m)	Chart	Lithology and Alteration	Mineralization	Depth (m)	D.L. (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (ppm)	Zn (%)	Fe (%)
		Light grey to grey vesiclar pillow lava.	Moderate intense pyrite dissemination.								
			154.00 Pyrite slight dissemination.								
156.10											
156.50		Basalt dyke.									
		Light grey to grey vesiclar pillow lava.									
158.10		Basalt dyke.									
159.15			159.15 Pyrite slight dissemination. (moderate intense in places)								
160		Grey auto-brecciated pillow lava.									
166.20		Grey basalt massive lava; partly brecciated.									
170											
173.80		Greenish grey basalt dyke.									
176.25		Pillow lava; slightly brecciated.									
178.30			178.30 Very slight pyrite dissemi.								
179.30		Basalt dyke.									
180		Grey basalt massive lava.									
182.95		Grey brecciated basalt massive lava.	182.95 Pyrite slight dissemination.								
184.95		Greenish grey doleritic basalt dyke.									
186.50		Grey brecciated basalt massive lava.									
188.20		Greenish grey dolerite dyke.	188.20 Very slight pyrite dissemi. (fine grained)								
190											
		191.95-192.35 Basalt massive lava.	191.95 Slight to moderate intense pyrite dissemination with pyrite fine veinlets.								
		Grey basalt dyke.									
196.50			196.50								
		Grey brecciated basalt massive lava.									
198.20		Slightly silicified									
200		Greenish grey pillow lava.									

Hole No. MJOB- Q1 (From 200 m to 250m)

Depth (m)	Chart	Lithology and Alteration	Mineralization
		Greenish grey pillow lava with thin interpillows(1-2cm).	Slight to moderate intense pyrite dissemination with pyrite fine veinlets.
		Slightly silicified	
206.20		Basalt dyke.	
206.65		Greenish grey to light greenish grey pillow lava.	
210			
			215.00 215.80 Pyrite-chlcopyrite veinlets.
		Slightly silicified in places.	
220			
220.60		Dark grey basalt dyke	220.60
222.00		Greenish grey to light greenish grey pillow lava.	222.00
224.25		Grey basalt massive lava.	
226.65		Slightly silicified.	
227.20		Basalt dyke.	
		Light greenish grey pillow lava.	
230			
		230.85-231.35 Basalt dyke.	
		Light greenish grey pillow lava.	
		232.35-232.75 Basalt dyke.	232.45
233.90		Grey massive lava.	
		Basalt dyke.	
234.85			
		Basalt dyke.	
237.35		Greenish grey pillow lava.	
		238.50-238.70 Basalt dyke.	
240		Greenish grey pillow lava.	
240.45		Basalt dyke.	
241.45			241.45
		Light greenish grey pillow lava.	
		Slightly silicified.	
		Basalt dyke.	
		Greenish grey pillow lava. With variole texture.	244.65 245.20 Very slight pyrite dissemi.
			249.20
250		(249.75) Greenish grey massive lava.	Slight pyrite dissemination.

Depth (m)	D.L. (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (ppm)	Zn (%)	Fe (%)

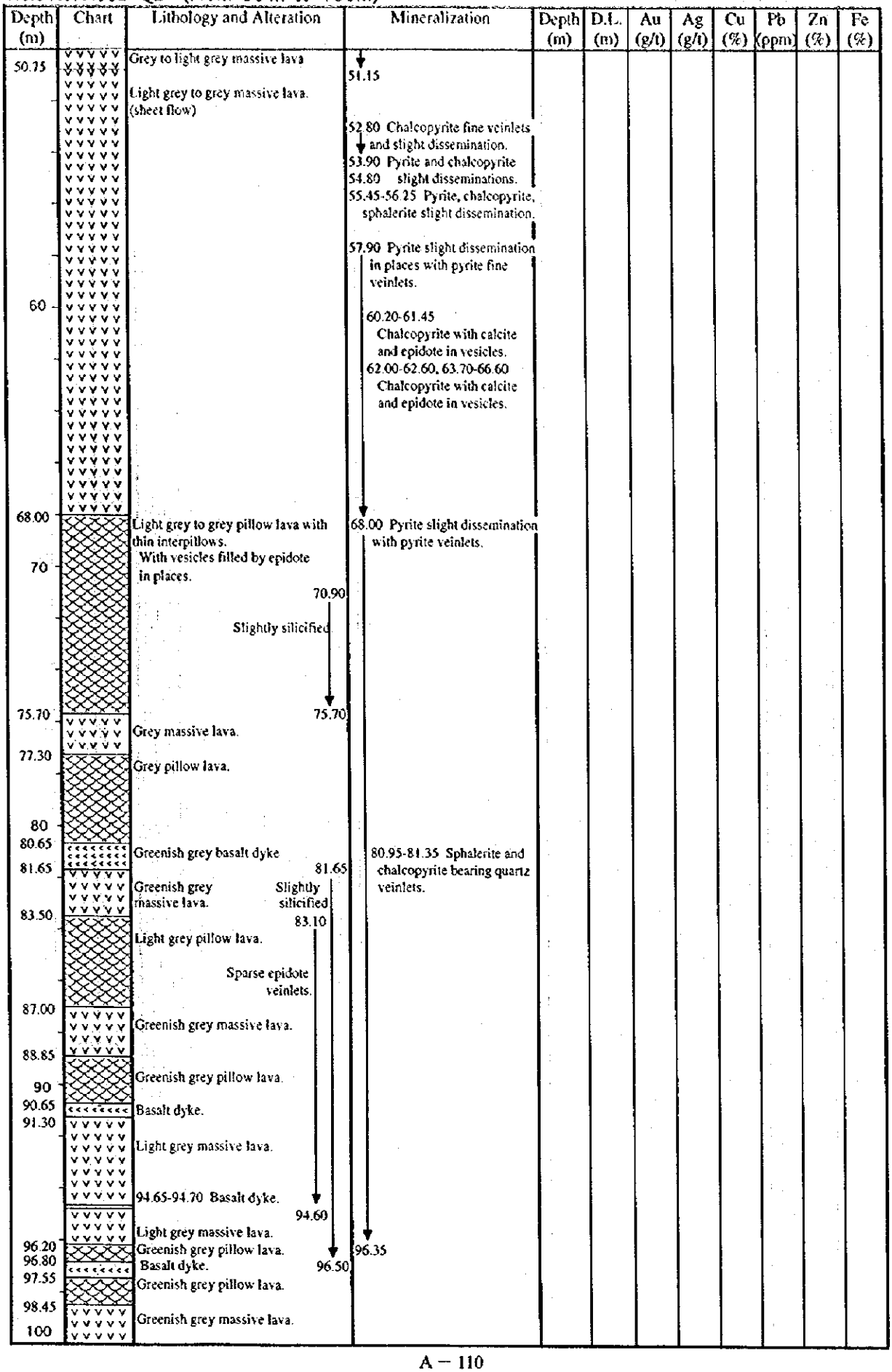
Hole No. MJOB- Q1 (From 250 m to 300m)

Depth (m)	Chart	Lithology and Alteration	Mineralization	Depth (m)	D.L. (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (ppm)	Zn (%)	Fe (%)
		Greenish grey basalt massive lava.	251.00 Very slight pyrite dissemination.								
			255.00-255.40 Pyrite and chalcopyrite bearing qaurtz -calcite veinlets.								
257.50		(5cm thick hyaloclastite) 257.50									
		Greenish grey basalt massive lava.	259.70 Slight pyrite dissemination with pyrite stringers in places.								
260											
261.40		Greenish grey pillow lava.									
262.70		Greenish grey basalt massive lava.									
264.35		Greenish grey pillow lava with thin interpillows(1-2cm).									
270											
		Slightly silicified.	272.30 Chalcopyrite dissemi. 273.25 Chalcopyrite and pyrite bearing calcite veinlets.								
			275.60 Chalcopyrite dissemi.								
			278.90 Chalcopyrite dissemi.								
280			281.00 Chalcopyrite dissemi.								
		282.20 Fracture (30 deg. to core axis) 282.45 With epidote and calcite in interpillows.	282.45 Chalcopyrite and pyrite with calcite in interpillow.								
		286.55-286.70 Intense epidotization in interpillows.	286.55-286.70 Intense pyrite dissemination in interpillow.								
290											
290.50		Doleritic basalt dyke.									
292.90		Greenish grey pillow lava with thin interpillows(1-2cm).									
293.80		Basalt dyke.									
294.60		Greenish grey pillow lava with thin interpillows(1-2cm).									
			297.10-297.50 Chalcopyrite slight dissemination.								
297.75		Basalt dyke.									
298.95		Greenish grey pillow lava.									
300		300.05 End of hole.									

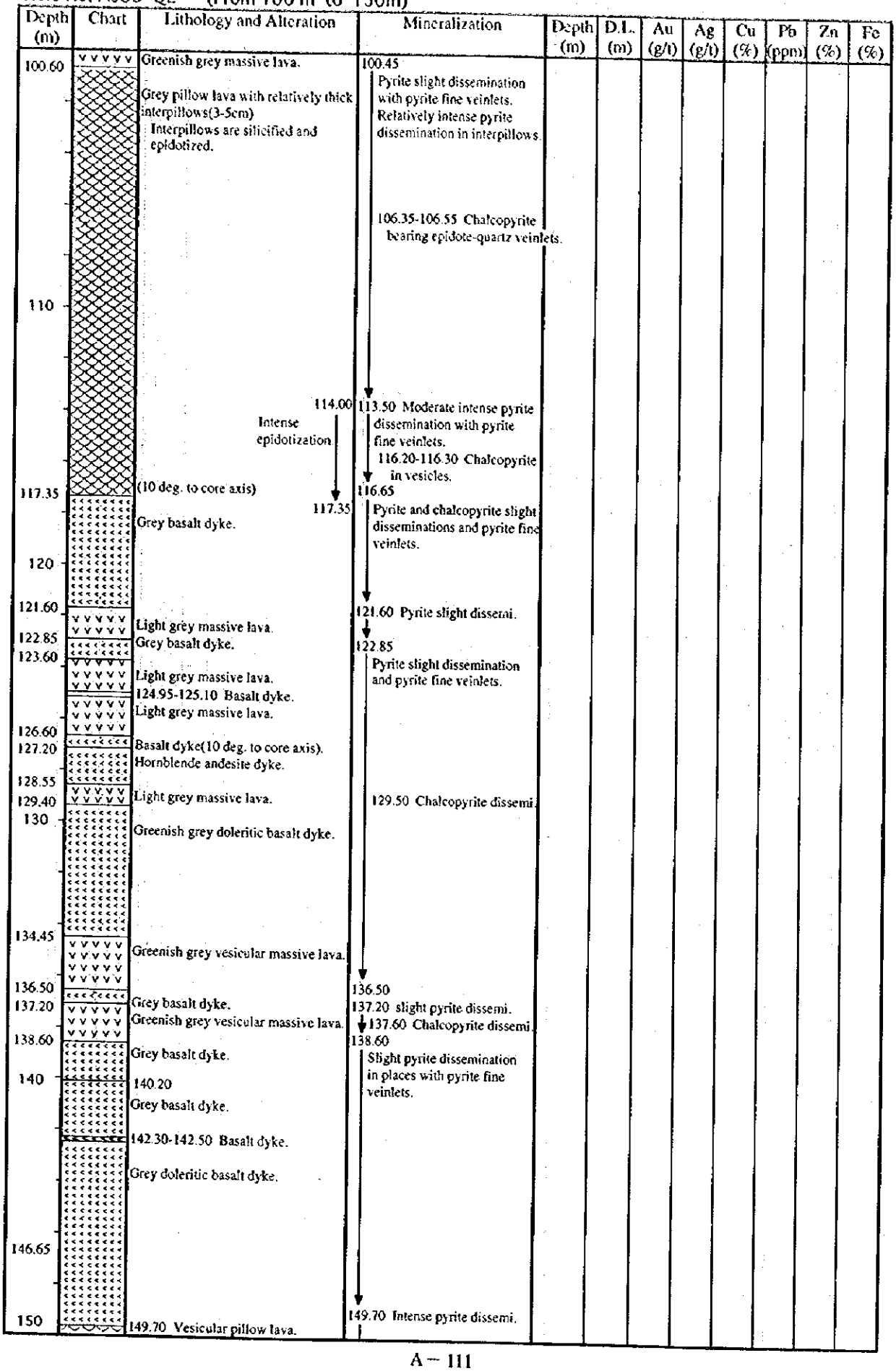
Hole No. MJOB- Q2 (From 0 m to 50m)

Depth (m)	Chart	Lithology and Alteration	Mineralization	Depth (m)	D.L. (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (ppm)	Zn (%)	Fe (%)
0.40		Sludge									
		Weathered pillow lava.									
4.55		Light grey, slightly weathered pillow lava with many vesicles.									
9.30		Andesitic basalt dyke(15 deg. to core axis)									
10											
10.35		Light grey massive lava.									
12.00		(40 deg. to core axis) Light greenish grey to greenish grey basalt dyke; many of mafic minerals were altered to epidote.									
20											
30											
30.50		Grey massive lava									
		31.10-31.40 Epidote along fractures.									
32.25		(30 deg. to core axis) Light greenish grey to greenish grey basalt dyke									
33.75		Grey massive lava									
34.85		Basalt dyke.									
35.25		Light grey massive lava.	35.25-35.40 Sphalerite and chalcopyrite slight dissemi.								
38.10		Basalt dyke.									
38.60		Light grey massive lava.									
40		Shear(20 deg. to core axis)									
40.40		Grey to greenish grey sheared massive lava.	42.20 Chalcopyrite bearing calcite veinlets.								
			43.30 Slight pyrite dissemination pyrite fine veinlets in places.								
45.75		Grey to light grey massive lava with many vesicles. Showing amygdaloidal texture.	45.50-47.00 Chalcopyrite and sphalerite in calcite filling vesicles.								
50											

Hole No. MJOB-Q2 (From 50 m to 100m)



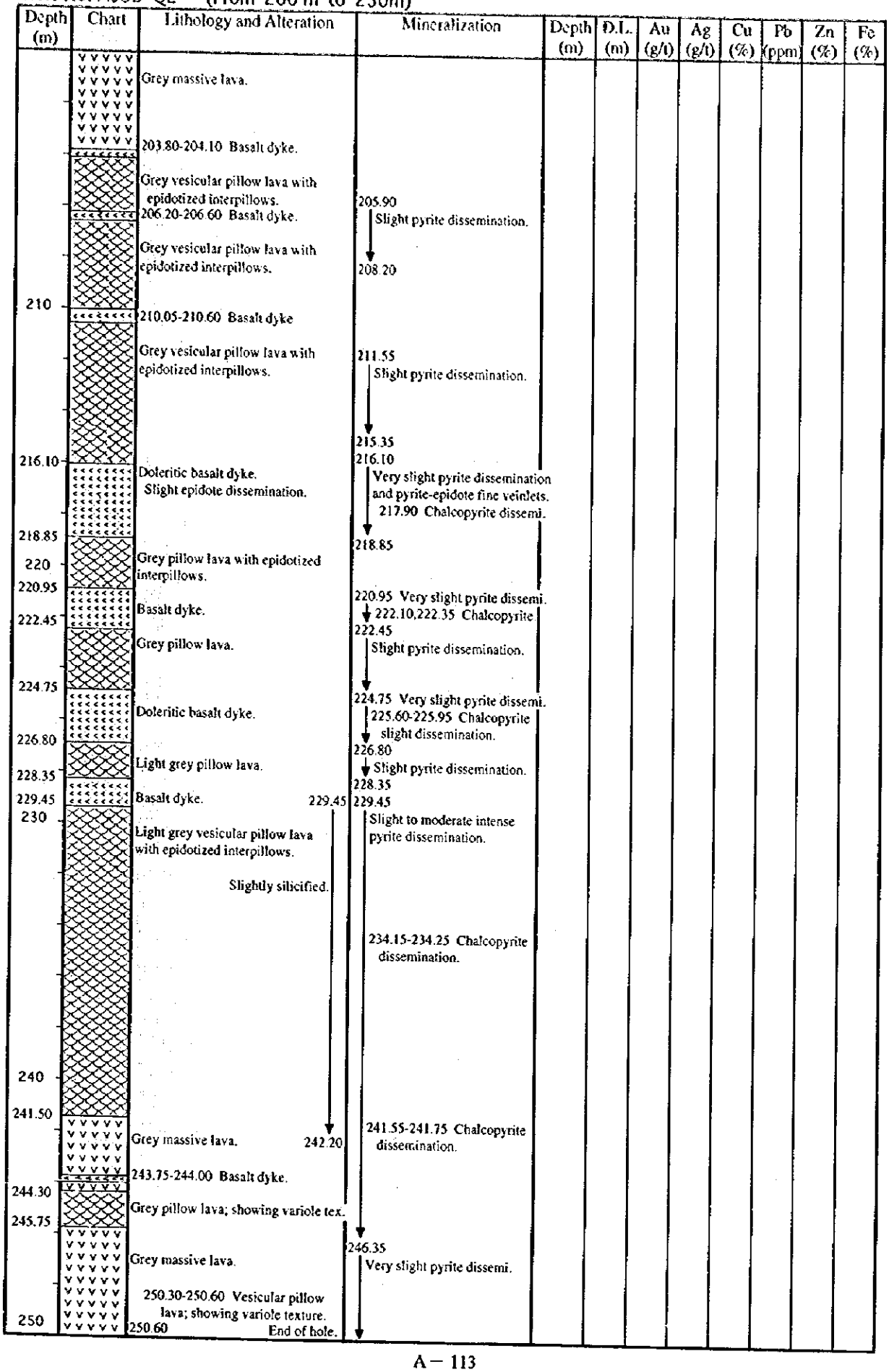
Hole No. MJOB- Q2 (From 100 m to 150m)



Hole No. MJOB- Q2 (From 150 m to 200m)

Depth (m)	Chart	Lithology and Alteration	Mineralization	Depth (m)	D.L. (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (ppm)	Zn (%)	Fe (%)
		Greenish grey vesicular pillow lava.	Intense pyrite dissemination.								
			151.90								
		152.40	Slight pyrite dissemination.								
153.00		Basalt dyke.	153.00								
154.00		Light grey pillow lava.									
154.50		Basalt dyke.									
155.10		Light grey vesicular pillow lava. Slightly silicified.	155.10 Slight pyrite dissemination.								
157.60		Basalt dyke.	157.60								
158.00		Light grey vesicular pillow lava. Slightly silicified.	158.00 Slight pyrite dissemination.								
160		Epidote filling in vesicles in pillows.									
162.90		162.90	162.90								
163.60		Basalt dyke.									
		Light grey slightly silicified massive lava.	164.40 Chalcopyrite dissemi.								
165.40		Light grey to grey pillow lava with epidotized interpillows. Slightly silicified in places. With jaspar in interpillows.									
168.55			168.30-168.50 Chalcopyrite dissemination.								
169.45		Basalt dyke.									
170		Light grey to grey pillow lava with epidotized interpillows.									
		170.55-170.70 Basalt dyke.									
			171.85 Slight pyrite dissemination.								
		Light grey to grey pillow lava with epidotized interpillows. Slightly silicified in places. With vesicles in places. With spotted epidote in places.	173.40-173.90 Chalcopyrite dissemination.								
			179.25-179.45 Chalcopyrite dissemination.								
180		180.20-180.40 Basalt dyke.									
		Light grey to grey pillow lava with epidotized interpillows.									
182.35		Basalt dyke.	182.35								
182.80			182.40,183.55 Chalcopyrite dissemination in dyke.								
183.20		Basalt dyke.									
183.80		Light grey to grey pillow lava with epidotized interpillows.	183.80 Slight pyrite dissemi.								
		185.75-185.85 Basalt dyke.									
186.10		Basalt dyke.	186.10								
187.00		Light grey to grey pillow lava with epidotized interpillows.									
			189.00-189.80 Slight pyrite dissemination.								
190			190.40-191.00 Chalcopyrite slight dissemination.								
193.20		Basalt dyke.									
194.15		Light grey to grey pillow lava with epidotized interpillows.	194.15 Moderate intense pyrite dissemination. 194.90-195.15 Chalcopyrite dissemination.								
197.40			196.70 196.40-197.40 Chalcopyrite slight dissemination.								
		Grey massive lava.									
200											

Hole No. MJOB- Q2 (From 200 m to 250m)



Appendix 4

Assay results of drilling cores

MJOB-G18

Sample No.	Depth(m)		Length (m)	Au(g/t)	Ag(g/t)	Cu(%)	Pb(ppm)	Zn(%)	Fe2O3 (%)
	From	To							
G18- 1	251.80	252.80	1	0.2	3.3	1.26	31	0.05	55.55
G18- 2	252.80	253.80	1	0.2	2.6	1.08	33	0.05	56.02
G18- 3	253.80	254.80	1	0.2	4.4	1.81	33	0.06	57.92
G18- 4	254.80	255.80	1	0.3	5.4	1.36	54	0.06	55.23
G18- 5	255.80	256.80	1	0.3	3.0	1.43	48	0.05	55.07
G18- 6	256.80	257.80	1	0.2	1.3	0.66	28	0.03	57.28
G18- 7	257.80	258.80	1	0.2	3.0	0.74	42	0.06	57.76
G18- 8	258.80	259.95	1.15	0.2	3.8	1.48	12	0.03	61.07
G18- 9	259.95	261.75	1.8	<0.1	N.D.	0.12	N.D.	0.03	22.25
G18- 10	261.75	262.75	1	0.2	5.2	1.21	34	0.02	52.23
G18- 11	262.75	263.75	1	0.2	3.5	0.77	44	0.02	52.86
G18- 12	263.75	265.10	1.35	0.2	4.0	1.39	39	0.03	55.55
G18- 13	265.10	266.70	1.6	N.D	N.D.	0.05	N.D.	0.20	13.57
G18- 14	266.70	267.00	0.3	0.1	3.7	1.30	10	0.98	49.87

Mineral Laboratory, Directorate of Minerals, Ministry of Commerce & Industry, Oman

AVERAGE	Length	Cu(%)	Zn(%)
all core 251.80-267.00	15.2	0.96	0.08
massive sulphide only	11.8	1.21	0.07

MJOB-G19

Sample No.	Depth(m)		Length	Au(g/t)	Ag(g/t)	Cu(%)	Pb(ppm)	Zn(%)	Fe2O3
	From	To	(m)						(%)
G19- 1	194.10	195.10	1	0.1	3.0	1.32	14	0.03	50.84
G19- 2	195.10	196.10	1	0.2	3.0	1.76	29	0.05	55.93
G19- 3	196.10	197.10	1	0.2	2.0	1.40	29	0.06	59.27
G19- 4	197.10	198.10	1	0.2	3.0	1.56	41	0.07	57.68
G19- 5	198.10	199.10	1	0.4	5.5	2.05	64	0.08	54.18
G19- 6	199.10	200.10	1	0.3	3.7	2.00	54	0.08	56.72
G19- 7	200.10	201.10	1	0.2	3.6	1.42	46	0.05	53.70
G19- 8	201.10	202.10	1	0.1	2.7	1.10	33	0.02	52.75
G19- 9	202.10	203.10	1	0.1	1.6	0.89	28	0.03	52.43
G19- 10	203.10	204.10	1	0.1	3.6	1.64	33	0.04	56.72
G19- 11	204.10	205.10	1	0.1	1.5	0.85	31	0.04	57.04
G19- 12	205.10	206.10	1	0.2	1.5	0.62	33	0.07	59.42
G19- 13	206.10	207.10	1	0.1	1.8	0.43	40	0.07	59.27
G19- 14	207.10	208.10	1	0.2	2.2	0.17	48	0.07	63.39
G19- 15	208.10	209.30	1.2	0.2	1.6	0.13	41	0.08	60.38
G19- 16	209.30	210.25	0.95	<0.1	0.5	0.22	N.D.	0.02	13.35
G19- 17	210.25	211.25	1	0.1	2.9	2.15	24	0.03	59.58
G19- 18	211.25	212.25	1	0.1	2.7	2.35	31	0.04	58.63
G19- 19	212.25	213.25	1	0.1	2.0	1.15	29	0.05	59.27
G19- 20	213.25	214.25	1	<0.1	1.2	1.64	25	0.05	56.72
G19- 21	214.25	215.75	1.5	<0.1	2.8	1.70	34	0.06	56.72
G19- 22	215.75	217.95	2.2	<0.1	0.5	0.18	N.D.	0.01	17.95
G19- 23	217.95	218.50	0.55	N.D.	1.9	1.38	21	0.06	57.84
G19- 24	218.50	219.80	1.3	0.1	1.0	0.19	N.D.	0.01	19.86
G19- 25	219.80	220.80	1	0.1	2.3	1.01	21	0.05	56.09
G19- 26	220.80	221.80	1	0.1	1.7	1.28	26	0.06	58.47
G19- 27	221.80	222.80	1	<0.1	1.8	1.09	33	0.04	57.68
G19- 28	222.80	223.80	1	0.1	1.6	0.96	25	0.04	61.01
G19- 29	223.80	224.80	1	0.1	2.4	1.40	33	0.06	58.47
G19- 30	224.80	225.80	1	0.1	2.3	1.74	33	0.05	55.61
G19- 31	225.80	226.80	1	0.1	2.1	1.30	19	0.03	56.88
G19- 32	226.80	227.50	0.7	0.1	3.4	1.26	39	0.04	57.20

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AVERAGE	Length	Cu(%)	Zn(%)
all core 194.10-227.50	33.4	1.15	0.05
massive sulphide only	28.95	1.30	0.05

MJOB-G20

Sample No.	Depth(m)		Length	Au(g/t)	Ag(g/t)	Cu(%)	Pb(ppm)	Zn(%)	Fe2O3
	From	To	(m)						(%)
G20- 1	273.90	274.30	0.4	0.1	1.6	1.13	<10	0.02	53.23
G20- 2	274.30	274.90	0.6	N.D.	N.D	<0.01	N.D	0.01	17.16
G20- 3	274.90	275.50	0.6	0.1	1.2	0.88	N.D	0.01	49.73
G20- 4	275.50	276.05	0.55	N.D.	<0.5	0.04	N.D	0.02	30.19
G20- 5	276.05	277.05	1	0.1	1.5	1.50	N.D	0.01	58.47
G20- 6	277.05	278.05	1	<0.1	<0.5	1.47	N.D	0.01	63.40
G20- 7	278.05	278.70	0.65	N.D	<0.5	0.04	N.D	0.01	35.75
G20- 8	278.70	279.30	0.6	<0.1	N.D.	0.32	N.D	0.01	44.49

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AVERAGE	Length	Cu(%)	Zn(%)
all core 273.90-279.30	5.4	0.69	0.02
massive sulphide only	3.6	1.03	0.01

MJOB-21

Sample No.	Depth(m)		Length	Au(g/t)	Ag(g/t)	Cu(%)	Pb(ppm)	Zn(%)	Fe2O3
	From	To	(m)						(%)
G21- 1	123.90	126.10	2.2	<0.1	1.0	0.24	N.D.	0.01	9.07
G21- 2	126.10	127.10	1	0.2	4.0	1.42	11	0.01	26.10
G21- 3	127.10	128.55	1.45	0.3	3.4	0.33	33	0.01	36.13
G21- 4	128.55	129.70	1.15	0.1	1.0	0.25	10	0.01	12.89
G21- 5	129.70	130.70	1	0.2	5.5	0.92	37	0.01	28.65
G21- 6	130.70	132.15	1.45	0.3	6.0	1.09	31	0.01	30.72
G21- 7	132.15	133.15	1	<0.1	0.5	0.11	N.D.	<0.01	6.84
G21- 8	133.15	133.70	0.55	0.4	7.2	1.69	41	0.01	29.60
G21- 9	133.70	135.05	1.35	0.1	N.D.	0.05	<10	0.01	7.48
G21- 10	135.05	135.60	0.55	0.3	3.6	0.44	58	0.02	39.47
G21- 11	135.60	136.70	1.1	0.1	0.5	0.20	11	0.01	13.05
G21- 12	136.70	137.70	1	0.5	3.5	0.03	42	0.02	33.42
G21- 13	137.70	138.75	1.05	0.4	3.0	0.02	39	0.02	31.35
G21- 14	138.75	140.75	2	<0.1	N.D.	0.20	N.D.	0.01	6.21
G21- 15	140.75	142.75	2	<0.1	N.D.	0.12	N.D.	0.01	7.64
G21- 16	142.75	145.30	2.55	0.1	N.D.	0.14	N.D.	0.02	10.35
G21- 17	152.00	153.45	1.45	N.D.	2.4	0.96	N.D.	0.01	10.66

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AVERAGE	Length	Cu(%)	Zn(%)
all core from 126.10 to 138.75	12.65	0.50	0.01
massive sulphide only	8.05	0.70	0.01
stock work ore 152.00-153.45	1.45	0.96	0.01

MJOB-G22

Sample No.	Depth(m)		Length	Au(g/t)	Ag(g/t)	Cu(%)	Pb(ppm)	Zn(%)	Fe2O3
	From	To	(m)						(%)
G22- 1	90.50	92.50	2	N.D.	N.D.	0.21	N.D.	0.01	26.03
G22- 2	92.50	93.65	1.15	N.D.	N.D.	0.29	N.D.	0.01	22.16
G22- 3	93.65	95.80	2.15	N.D.	N.D.	0.08	N.D.	0.01	22.88
G22- 4	95.80	96.55	0.75	N.D.	1.0	1.45	N.D.	0.01	37.47
G22- 5	96.55	97.55	1	0.3	8.8	6.75	18	0.03	58.06
G22- 6	97.55	98.55	1	0.2	6.7	5.05	21	0.04	57.34
G22- 7	98.55	99.55	1	0.2	5.1	3.45	27	0.03	55.77
G22- 8	99.55	100.55	1	0.2	4.2	2.25	35	0.03	55.06
G22- 9	100.55	101.55	1	0.2	3.4	1.67	35	0.02	53.48
G22- 10	101.55	102.55	1	0.2	4.2	2.10	37	0.04	57.34
G22- 11	102.55	103.55	1	0.2	5.5	1.93	36	0.04	56.48
G22- 12	103.55	104.55	1	0.2	13.1	4.50	35	0.02	45.05
G22- 13	104.55	105.55	1	0.2	9.2	1.14	89	0.03	56.48
G22- 14	105.55	106.55	1	0.4	13.9	2.15	62	0.03	56.48
G22- 15	106.55	107.55	1	0.6	11.8	3.75	66	0.04	59.63
G22- 16	107.55	108.55	1	0.2	6.3	0.60	60	0.03	58.77
G22- 17	108.55	110.20	1.65	0.3	5.9	0.89	113	0.02	64.92
G22- 18	110.20	112.20	2	0.1	1.4	0.15	21	0.03	34.32
G22- 19	112.20	114.20	2	0.1	2.0	0.05	58	0.02	38.18
G22- 20	114.20	115.85	1.65	0.1	1.0	0.11	13	0.69	24.45
G22- 21	115.85	116.85	1	<0.1	1.0	0.58	10	0.96	23.74
G22- 22	116.85	117.85	1	<0.1	N.D.	0.19	N.D.	1.13	21.45
G22- 23	117.85	118.85	1	<0.1	4.6	3.80	N.D.	0.05	26.74
G22- 24	118.85	119.85	1	0.1	8.0	4.90	N.D.	0.63	35.18
G22- 25	119.85	120.85	1	0.1	8.7	8.80	N.D.	0.09	30.60
G22- 26	120.85	121.85	1	0.2	6.8	6.65	N.D.	0.05	28.31
G22- 27	121.85	122.85	1	<0.1	4.2	3.60	<10	0.03	22.16
G22- 28	122.85	123.85	1	<0.1	2.1	1.95	N.D.	0.03	22.88
G22- 29	123.85	124.85	1	0.1	3.0	2.40	N.D.	0.02	25.17
G22- 30	124.85	125.85	1	N.D.	1.0	1.17	N.D.	0.02	22.88
G22- 31	125.85	126.85	1	N.D.	1.7	0.90	N.D.	0.03	20.59
G22- 32	126.85	127.85	1	0.1	7.5	1.45	N.D.	0.03	33.60
G22- 33	127.85	129.30	1.45	0.1	2.5	0.53	N.D.	0.03	20.59
G22- 34	129.30	131.30	2	<0.1	N.D.	0.60	N.D.	0.03	17.59
G22- 35	131.30	133.30	2	<0.1	N.D.	0.76	N.D.	0.04	19.88
G22- 36	133.30	135.30	2	<0.1	N.D.	0.67	N.D.	0.03	17.59
G22- 37	135.30	137.30	2	<0.1	N.D.	0.42	N.D.	0.04	16.02
G22- 38	137.30	139.30	2	<0.1	N.D.	0.85	N.D.	0.04	21.45
G22- 39	139.30	141.30	2	<0.1	1.0	0.28	10	0.03	18.30
G22- 40	141.30	143.30	2	<0.1	N.D.	0.26	24	0.04	32.89
G22- 41	143.30	144.85	1.55	<0.1	N.D.	0.50	16	0.02	23.74

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AVERAGE		Length	Cu(%)	Zn(%)
stockwork	90.50-96.55	6.05	0.33	0.01
massive sulphide	96.55-110.20	13.65	2.70	0.03
stockwork	110.20-144.85	34.65	1.33	0.14
stockwork (high grade)	117.85-127.85	10	3.56	0.10

MJOB-G23

Sample No.	Depth(m)		Length	Au(g/t)	Ag(g/t)	Cu(%)	Pb(ppm)	Zn(%)	Fe2O3
	From	To	(m)						(%)
G23- 1	134.55	135.80	1.25	N.D.	N.D.	0.19	N.D.	0.02	20.19
G23- 2	138.25	140.25	2	<0.1	N.D.	0.17	N.D.	0.01	19.89
G23- 3	140.25	142.25	2	<0.1	N.D.	0.44	N.D.	0.01	21.23
G23- 4	142.25	143.95	1.7	<0.1	0.6	0.74	N.D.	0.02	25.87
G23- 5	147.50	148.50	1	<0.1	<0.5	0.39	N.D.	0.01	29.90
G23- 6	148.50	149.15	0.65	<0.1	<0.5	0.13	N.D.	0.01	23.77

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MJOB-G25

Sample No.	Depth(m)		Length	Au(g/t)	Ag(g/t)	Cu(%)	Pb(ppm)	Zn(%)	Fe2O3
	From	To	(m)						(%)
G25- 1	115.60	117.00	1.4	0.2	4.5	3.94	75	0.03	51.65
G25- 2	117.00	118.50	1.5	N.D.	<0.5	0.03	18	0.01	19.10
G25- 3	118.50	119.90	1.4	<0.1	<0.5	0.04	54	0.01	24.73
G25- 4	119.90	120.90	1	0.3	4.0	13.08	25	0.03	55.26
G25- 5	120.90	121.95	1.05	0.2	4.3	6.80	44	0.05	55.26
G25- 6	121.95	123.05	1.1	0.1	<0.5	0.26	85	0.04	37.57
G25- 7	123.05	124.50	1.45	<0.1	0.5	0.02	50	0.34	17.85
G25- 8	124.50	125.95	1.45	<0.1	<0.5	0.26	10	0.17	19.25
G25- 9	125.95	127.90	1.95	N.D.	<0.5	0.01	N.D.	0.01	9.08
G25- 10	127.90	128.45	0.55	<0.1	2.7	1.66	N.D.	0.08	21.76
G25- 11	128.45	130.95	2.5	N.D.	<0.5	0.02	N.D.	0.01	9.08
G25- 12	130.95	132.95	2	N.D.	<0.5	0.05	N.D.	0.01	22.54
G25- 13	132.95	134.95	2	<0.1	<0.5	0.23	N.D.	0.01	18.47
G25- 14	134.95	136.95	2	<0.1	<0.5	0.04	N.D.	0.01	23.48
G25- 15	136.95	138.95	2	N.D.	N.D.	0.09	N.D.	<0.01	17.00
G25- 16	138.95	140.95	2	N.D.	0.5	0.18	N.D.	<0.01	15.73
G25- 17	140.95	142.95	2	N.D.	N.D.	0.15	N.D.	<0.01	17.48
G25- 18	142.95	144.95	2	N.D.	N.D.	0.03	N.D.	0.01	21.77
G25- 19	144.95	146.95	2	<0.1	0.5	0.16	N.D.	0.01	28.60
G25- 20	146.95	148.95	2	<0.1	1.0	0.86	N.D.	0.01	41.63

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AVERAGE		Length	Cu(%)	Zn(%)
all core	115.60-123.05	7.45	3.51	0.03
massive sulphide only		4.55	5.72	0.04
stock work	123.05-148.95	25.9	0.19	0.04

MJOB-G26

Sample No.	Depth(m)		Length	Au(g/t)	Ag(g/t)	Cu(%)	Pb(ppm)	Zn(%)	Fe2O3
	From	To	(m)						(%)
G26- 1	80.05	81.05	1	<0.1	<0.5	0.26	N.D.	0.01	68.34
G26- 2	81.05	82.05	1	N.D.	<0.5	0.25	N.D.	<0.01	65.36
G26- 3	82.05	83.05	1	<0.1	N.D.	0.30	N.D.	<0.01	64.89
G26- 4	83.05	84.05	1	<0.1	<0.5	0.07	N.D.	<0.01	70.70
G26- 5	84.05	85.05	1	N.D.	0.6	0.03	N.D.	<0.01	67.40
G26- 6	85.05	86.05	1	<0.1	<0.5	<0.01	N.D.	<0.01	71.64
G26- 7	86.05	86.80	0.75	N.D.	N.D.	<0.01	N.D.	<0.01	59.07
G26- 8	86.80	88.80	2	<0.1	N.D.	0.16	N.D.	0.01	28.75
G26- 9	88.80	90.80	2	<0.1	<0.5	0.27	N.D.	0.01	36.76
G26- 10	90.80	91.70	0.9	N.D.	N.D.	0.08	N.D.	0.01	30.79
G26- 11	91.70	93.70	2	N.D.	N.D.	<0.01	N.D.	0.01	23.09
G26- 12	93.70	95.70	2	<0.1	<0.5	0.10	N.D.	0.01	31.89
G26- 13	95.70	97.70	2	N.D.	<0.5	0.09	N.D.	0.01	31.73
G26- 14	97.70	99.70	2	N.D.	<0.5	0.11	N.D.	0.01	22.78
G26- 15	99.70	101.70	2	<0.1	<0.5	0.02	N.D.	0.01	26.39
G26- 16	101.70	103.70	2	N.D.	<0.5	0.18	N.D.	0.01	30.32
G26- 17	103.70	105.70	2	N.D.	<0.5	0.02	N.D.	0.01	26.39
G26- 18	105.70	107.70	2	N.D.	<0.5	0.07	N.D.	<0.01	21.21
G26- 19	107.70	109.70	2	N.D.	N.D.	0.13	N.D.	<0.01	24.98
G26- 20	109.70	111.70	2	N.D.	<0.5	0.07	N.D.	<0.01	23.56
G26- 21	111.70	113.70	2	N.D.	N.D.	0.08	N.D.	<0.01	16.49
G26- 22	113.70	115.00	1.3	N.D.	<0.5	0.12	N.D.	0.01	17.12

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AVERAGE		Length	Cu(%)	Zn(%)
massive magnetite	80.05-86.80	6.75	0.14	0.01
stockwork	86.80-115.00	28.20	0.10	0.01

MJOB-G29

Sample No.	Depth(m)		Length	Au(g/t)	Ag(g/t)	Cu(%)	Pb(ppm)	Zn(%)	Fe2O3
	From	To	(m)						(%)
G29- 1	127.25	128.25	1	<0.1	N.D.	0.20	N.D.	<0.01	10.47
G29- 2	128.25	129.85	1.6	<0.1	N.D.	0.15	N.D.	<0.01	9.57
G29- 3	132.75	133.75	1	<0.1	0.6	0.93	N.D.	<0.01	9.87
G29- 4	133.75	134.75	1	<0.1	1.8	1.22	N.D.	<0.01	13.91
G29- 5	134.75	135.75	1	0.1	9.7	5.41	N.D.	<0.01	17.78
G29- 6	135.75	136.75	1	<0.1	N.D.	0.09	N.D.	<0.01	8.52
G29- 7	136.75	137.75	1	<0.1	N.D.	0.19	N.D.	<0.01	10.77
G29- 8	137.75	138.75	1	<0.1	N.D.	0.09	N.D.	<0.01	8.67
G29- 9	138.75	139.75	1	<0.1	2.0	1.47	N.D.	<0.01	11.36
G29- 10	139.75	140.75	1	<0.1	0.6	0.69	N.D.	<0.01	9.87
G29- 11	140.75	141.75	1	<0.1	<0.5	0.49	N.D.	<0.01	8.22
G29- 12	141.75	142.85	1.1	<0.1	0.9	1.03	N.D.	<0.01	7.46

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AVERAGE	Length	Cu(%)	Zn(%)
all cores	12.7	0.96	0.05

MJOB-G30

Sample No.	Depth(m)		Length	Au(g/t)	Ag(g/t)	Cu(%)	Pb(ppm)	Zn(%)	Fe2O3
	From	To	(m)						(%)
G30- 1	108.85	110.40	1.55	N.D.	N.D.	0.22	N.D.	0.02	15.36
G30- 2	110.40	111.40	1	0.1	0.5	1.79	19	0.04	55.81
G30- 3	111.40	112.40	1	0.1	2.2	5.86	26	0.04	59.26
G30- 4	112.40	113.40	1	0.1	0.7	2.09	18	0.03	60.20
G30- 5	113.40	114.40	1	0.1	0.7	3.51	21	0.02	57.85
G30- 6	114.40	115.40	1	0.1	1.0	7.09	19	0.02	55.49
G30- 7	115.40	116.40	1	0.1	1.0	4.94	19	0.02	57.06
G30- 8	116.40	117.40	1	0.1	2.3	3.37	26	0.03	56.43
G30- 9	117.40	118.40	1	0.1	2.7	7.74	N.D.	0.02	57.37
G30- 10	118.40	119.40	1	0.1	1.9	7.06	N.D.	0.01	55.81
G30- 11	119.40	120.40	1	0.1	4.7	7.12	N.D.	0.01	54.71
G30- 12	120.40	121.40	1	0.1	3.5	9.53	N.D.	0.01	52.20
G30- 13	121.40	122.40	1	0.1	3.9	6.35	N.D.	0.01	55.02
G30- 14	122.40	123.40	1	0.1	2.7	8.74	N.D.	0.01	52.20
G30- 15	123.40	124.40	1	0.1	1.2	9.45	N.D.	0.01	52.83
G30- 16	124.40	125.40	1	0.1	0.9	10.83	N.D.	0.01	53.30
G30- 17	125.40	126.40	1	0.1	3.1	10.27	N.D.	0.01	53.77
G30- 18	126.40	127.40	1	0.1	2.4	3.37	25	0.04	60.51
G30- 19	127.40	128.40	1	0.1	2.7	2.60	55	0.05	57.22
G30- 20	128.40	129.40	1	N.D.	1.9	1.77	31	0.06	57.69
G30- 21	129.40	130.40	1	N.D.	1.9	2.37	50	0.09	58.63
G30- 22	130.40	131.40	1	<0.1	2.3	3.49	38	0.04	56.28
G30- 23	131.40	132.65	1.25	N.D.	0.8	1.93	32	0.03	56.28
G30- 24	132.65	134.35	1.7	N.D.	N.D.	0.09	N.D.	0.01	12.54
G30- 25	134.35	135.35	1	N.D.	0.9	1.31	24	0.05	60.35
G30- 26	135.35	136.35	1	N.D.	1.2	2.72	19	0.03	58.16
G30- 27	136.35	137.35	1	N.D.	0.9	1.34	12	0.02	58.63
G30- 28	137.35	138.80	1.45	N.D.	N.D.	0.09	N.D.	0.01	19.28
G30- 29	138.80	139.80	1	N.D.	0.9	1.83	7	0.02	60.51
G30- 30	139.80	140.80	1	N.D.	0.6	1.63	21	0.01	57.06
G30- 31	140.80	141.80	1	<0.1	<0.5	1.06	20	0.01	57.80
G30- 32	141.80	142.80	1	N.D.	0.7	1.38	19	0.02	59.22
G30- 33	142.80	143.80	1	N.D.	0.5	0.71	21	0.02	57.32
G30- 34	143.80	144.80	1	<0.1	0.7	1.46	19	0.02	57.80
G30- 35	144.80	145.80	1	N.D.	0.7	1.06	17	0.04	59.53
G30- 36	145.80	146.80	1	<0.1	1.4	2.52	19	0.03	57.95
G30- 37	146.80	147.80	1	<0.1	1.4	3.06	N.D.	0.02	58.43
G30- 38	147.80	148.80	1	N.D.	1.0	1.96	5	0.02	60.16
G30- 39	148.80	149.80	1	<0.1	1.0	2.43	7	0.03	58.59
G30- 40	149.80	150.80	1	<0.1	1.0	3.49	N.D.	0.05	52.30
G30- 41	150.80	151.80	1	0.1	0.7	5.09	N.D.	0.03	54.97
G30- 42	151.80	152.80	1	0.1	1.0	5.18	N.D.	0.03	58.43
G30- 43	152.80	153.80	1	0.1	0.8	2.38	N.D.	0.02	57.96
G30- 44	153.80	154.80	1	0.1	0.8	4.56	N.D.	0.03	56.70
G30- 45	154.80	155.80	1	0.1	0.5	3.47	N.D.	0.03	57.96
G30- 46	155.80	156.80	1	<0.1	0.9	3.49	N.D.	0.02	59.84
G30- 47	156.80	157.80	1	0.1	0.8	3.44	15	0.02	58.90
G30- 48	157.80	158.80	1	0.1	0.9	2.33	21	0.03	60.47
G30- 49	158.80	159.80	1	0.1	0.5	1.43	16	0.05	61.10
G30- 50	159.80	160.80	1	0.1	1.0	0.99	N.D.	0.03	58.59

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MJOB-G30

Sample No.	Depth(m)		Length	Au(g/t)	Ag(g/t)	Cu(%)	Pb(ppm)	Zn(%)	Fe2O3
	From	To	(m)						(%)
G30- 51	160.80	161.80	1	<0.1	1.0	1.58	14	0.04	58.90
G30- 52	161.80	162.80	1	0.1	0.6	1.98	N.D.	0.05	57.64
G30- 53	162.80	163.80	1	0.1	0.8	3.00	10	0.07	57.64
G30- 54	163.80	164.80	1	0.1	0.9	5.69	N.D.	0.09	57.17
G30- 55	164.80	165.80	1	<0.1	0.9	4.80	17	0.10	55.29
G30- 56	165.80	166.80	1	<0.1	0.9	2.79	17	0.08	58.27
G30- 57	166.80	167.80	1	<0.1	0.9	2.19	N.D.	0.04	59.06
G30- 58	167.80	168.80	1	0.1	1.1	2.54	13	0.07	59.06
G30- 59	168.80	169.80	1	0.1	1.4	3.84	16	0.08	56.07
G30- 60	169.80	170.80	1	0.1	1.1	3.33	13	0.06	57.96
G30- 61	170.80	171.80	1	0.1	1.2	2.95	12	0.04	59.63
G30- 62	171.80	172.80	1	0.1	1.6	2.81	13	0.02	61.03
G30- 63	172.80	173.80	1	0.1	1.4	1.80	15	0.04	61.18
G30- 64	173.80	174.80	1	0.1	1.8	1.58	18	0.04	61.49
G30- 65	174.80	175.80	1	0.1	2.8	1.98	17	0.03	57.00
G30- 66	175.80	176.80	1	0.1	2.0	1.47	18	0.04	60.87
G30- 67	176.80	177.80	1	0.1	2.3	1.75	24	0.07	60.10
G30- 68	177.80	178.80	1	0.1	2.0	1.39	21	0.02	59.79
G30- 69	178.80	179.80	1	0.1	1.1	1.49	15	0.02	60.56
G30- 70	179.80	180.80	1	0.1	2.0	1.30	12	0.02	59.79
G30- 71	180.80	181.80	1	0.1	1.6	0.55	10	0.02	50.70
G30- 72	181.80	182.80	1	0.1	1.0	0.31	17	0.02	61.33
G30- 73	182.80	183.80	1	0.1	0.7	0.45	18	0.01	57.93
G30- 74	183.80	184.80	1	0.1	0.5	0.34	N.D.	0.01	60.41
G30- 75	184.80	185.80	1	<0.1	<0.5	0.53	N.D.	0.01	56.38
G30- 76	185.80	186.80	1	<0.1	<0.5	0.68	N.D.	0.01	60.87
G30- 77	186.80	187.80	1	<0.1	<0.5	0.09	N.D.	0.01	59.48
G30- 78	187.80	188.80	1	<0.1	<0.5	0.32	N.D.	0.01	59.63
G30- 79	188.80	189.80	1	<0.1	<0.5	1.37	N.D.	0.01	61.03
G30- 80	189.80	190.80	1	<0.1	<0.5	0.08	N.D.	0.01	59.79
G30- 81	190.80	191.80	1	<0.1	<0.5	0.14	N.D.	0.01	59.01
G30- 82	191.80	192.80	1	<0.1	0.6	1.75	N.D.	0.01	59.48
G30- 83	192.80	193.80	1	<0.1	2.8	0.40	N.D.	0.01	59.79
G30- 84	193.80	194.80	1	<0.1	0.9	0.63	10	0.01	61.33
G30- 85	194.80	195.80	1	<0.1	0.5	0.42	N.D.	0.01	59.94
G30- 86	195.80	196.80	1	<0.1	0.9	1.49	N.D.	0.02	57.77
G30- 87	196.80	197.80	1	<0.1	0.6	0.61	N.D.	0.01	58.24
G30- 88	197.80	198.80	1	<0.1	0.9	0.91	N.D.	0.01	57.93
G30- 89	198.80	199.80	1	<0.1	<0.5	0.17	10	0.01	56.07
G30- 90	199.80	200.80	1	<0.1	0.5	0.13	N.D.	0.01	60.41
G30- 91	200.80	201.80	1	<0.1	0.5	0.67	13	0.03	56.84

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AVERAGE	Length	Cu(%)	Zn(%)
massive sulphide zone	91.4	2.68	0.01
(110.40-201.80)			
(110.40-180.80)	70.4	3.30	0.03

MJOB-G31

Sample No.	Depth(m)		Length	Au(g/t)	Ag(g/t)	Cu(%)	Pb(ppm)	Zn(%)	Fe2O3
	From	To	(m)						(%)
G31- 1	109.30	110.30	1	0.4	1.3	1.40	41	0.05	50.07
G31- 2	110.30	111.30	1	0.4	1.8	3.11	36	0.05	56.11
G31- 3	111.30	112.30	1	0.1	1.7	1.24	53	<0.01	57.77
G31- 4	112.30	113.30	1	0.2	1.1	1.38	30	0.03	57.22
G31- 5	113.30	114.30	1	0.2	1.6	3.02	32	0.04	61.02
G31- 6	114.30	115.30	1	0.2	1.6	3.98	29	0.04	59.84
G31- 7	115.30	116.30	1	0.2	1.9	3.40	36	0.04	59.68
G31- 8	116.30	117.30	1	0.1	1.1	2.28	35	0.06	58.63
G31- 9	117.30	118.30	1	0.1	1.1	1.79	32	0.10	60.55
G31- 10	118.30	119.30	1	0.1	1.9	1.72	31	0.06	57.86
G31- 11	119.30	120.30	1	0.1	1.3	2.91	29	0.06	57.93
G31- 12	120.30	121.30	1	0.1	1.7	3.89	28	0.06	58.16
G31- 13	121.30	122.30	1	0.2	1.7	2.19	29	0.06	59.51
G31- 14	122.30	123.30	1	0.1	1.0	0.93	10	0.02	58.40
G31- 15	123.30	124.30	1	0.1	1.1	1.49	17	0.04	54.45
G31- 16	124.30	125.30	1	0.1	1.7	1.43	36	0.05	60.95
G31- 17	125.30	126.30	1	0.4	2.0	1.81	38	0.06	57.69
G31- 18	126.30	127.30	1	0.2	0.8	1.27	29	0.03	59.76
G31- 19	127.30	128.30	1	0.2	1.2	1.93	28	0.04	58.31
G31- 20	128.30	129.30	1	0.2	1.2	1.65	14	0.02	62.66
G31- 21	129.30	130.30	1	0.2	0.9	1.93	22	0.04	58.09
G31- 22	130.30	131.30	1	0.3	1.2	1.77	25	0.05	60.62
G31- 23	131.30	132.30	1	0.2	1.0	0.69	23	0.02	58.96
G31- 24	132.30	133.30	1	0.2	1.1	1.16	22	0.03	58.66
G31- 25	133.30	134.30	1	0.2	1.4	1.86	29	0.03	59.51
G31- 26	134.30	135.30	1	0.2	1.4	2.33	22	0.03	59.66
G31- 27	135.30	136.30	1	0.2	1.5	2.91	20	0.04	59.59
G31- 28	136.30	137.30	1	0.2	1.7	4.28	15	0.02	57.36
G31- 29	137.30	138.30	1	0.2	2.4	3.16	16	0.03	60.21
G31- 30	138.30	139.30	1	0.2	2.0	2.86	32	0.03	58.01
G31- 31	139.30	140.30	1	0.2	1.2	1.92	29	0.04	60.33
G31- 32	140.30	141.30	1	0.1	<0.5	0.42	20	0.04	61.45
G31- 33	141.30	142.30	1	0.1	0.5	1.03	23	0.03	59.21
G31- 34	142.30	143.30	1	0.1	0.6	1.04	28	0.04	60.01
G31- 35	143.30	144.30	1	0.1	0.6	1.42	23	0.04	57.76
G31- 36	144.30	145.30	1	0.1	<0.5	1.84	29	0.05	58.25
G31- 37	145.30	146.30	1	0.2	0.5	1.34	27	0.05	60.17
G31- 38	146.30	147.30	1	0.1	0.7	1.37	33	0.04	60.33
G31- 39	147.30	148.30	1	0.1	0.9	1.79	20	0.03	55.84
G31- 40	148.30	149.30	1	0.2	1.4	1.73	34	0.05	57.12
G31- 41	149.30	150.30	1	0.2	1.1	1.82	39	0.05	56.80
G31- 42	150.30	151.05	0.75	0.2	1.2	1.69	56	0.05	58.89
G31- 43	151.05	152.90	1.85	<0.1	N.D.	0.14	N.D.	0.01	19.89
G31- 44	152.90	153.90	1	0.2	1.1	1.30	38	0.04	51.51
G31- 45	153.90	154.90	1	0.2	1.1	1.67	30	0.04	52.95
G31- 46	154.90	155.90	1	0.2	0.7	1.67	33	0.04	51.03
G31- 47	155.90	156.90	1	0.2	0.9	2.00	30	0.05	53.27
G31- 48	156.90	157.90	1	0.2	0.8	1.44	34	0.05	57.93
G31- 49	157.90	158.90	1	0.2	0.5	1.04	31	0.05	50.38
G31- 50	158.90	159.90	1	0.1	0.8	1.65	33	0.05	55.19

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MJOB-G31

Sample No.	Depth(m)		Length	Au(g/t)	Ag(g/t)	Cu(%)	Pb(ppm)	Zn(%)	Fe2O3
	From	To	(m)						(%)
G31- 51	159.90	160.90	1	0.1	0.9	1.54	36	0.04	58.41
G31- 52	160.90	162.35	1.45	0.1	0.7	1.46	46	0.09	61.14
G31- 53	162.35	163.05	0.7	N.D.	<0.5	0.02	N.D.	0.01	26.31
G31- 54	163.05	163.35	0.3	0.1	0.6	0.58	54	0.05	55.52
G31- 55	163.35	164.50	1.15	N.D.	<0.5	0.07	N.D.	0.01	21.02
G31- 56	164.50	166.05	1.55	0.1	<0.5	0.88	41	0.09	56.00
G31- 57	166.05	168.05	2	<0.1	<0.5	0.10	N.D.	0.01	18.13
G31- 58	168.05	169.05	1	0.2	0.5	0.49	30	0.06	58.08
G31- 59	169.05	170.05	1	0.1	0.7	1.39	31	0.05	55.84
G31- 60	170.05	171.05	1	0.1	0.6	1.07	31	0.04	59.21
G31- 61	171.05	172.05	1	0.1	0.9	1.75	24	0.05	55.95
G31- 62	172.05	173.05	1	0.1	0.5	1.25	18	0.04	49.43
G31- 63	173.05	174.05	1	0.1	0.9	2.03	25	0.04	53.34
G31- 64	174.05	175.05	1	0.1	1.1	2.08	29	0.04	59.38
G31- 65	175.05	176.05	1	0.1	0.6	1.20	17	0.05	56.11
G31- 66	176.05	177.05	1	0.1	1.0	1.39	21	0.05	56.77
G31- 67	177.05	178.05	1	0.1	0.7	1.91	21	0.05	56.44
G31- 68	178.05	179.05	1	0.1	1.5	1.48	26	0.05	55.95
G31- 69	179.05	180.05	1	0.1	1.2	1.21	26	0.05	57.26
G31- 70	180.05	181.30	1.25	0.1	1.3	2.35	25	0.03	56.77
G31- 71	181.30	183.30	2	N.D.	<0.5	0.07	N.D.	0.01	16.31
G31- 72	183.30	185.30	2	N.D.	<0.5	0.22	N.D.	<0.01	23.98
G31- 73	185.30	187.30	2	<0.1	<0.5	0.19	N.D.	<0.01	23.98
G31- 74	187.30	189.30	2	N.D.	<0.5	0.26	N.D.	<0.01	19.74
G31- 75	189.30	191.30	2	<0.1	<0.5	0.30	N.D.	<0.01	22.19
G31- 76	191.30	193.30	2	N.D.	<0.5	0.39	N.D.	<0.01	25.45
G31- 77	193.30	195.65	2.35	<0.1	<0.5	0.44	N.D.	<0.01	23.98
G31- 78	195.65	196.85	1.2	0.1	0.5	0.05	N.D.	<0.01	39.48
G31- 79	196.85	197.70	0.85	<0.1	<0.5	0.01	10	<0.01	23.98
G31- 80	197.70	198.70	1	<0.1	<0.5	0.06	N.D.	<0.01	50.89
G31- 81	198.70	200.70	2	<0.1	<0.5	0.02	N.D.	<0.01	27.73
G31- 82	200.70	202.70	2	<0.1	<0.5	0.19	N.D.	<0.01	30.99
G31- 83	202.70	204.70	2	<0.1	<0.5	0.09	N.D.	<0.01	30.18
G31- 84	204.70	206.70	2	<0.1	<0.5	0.82	N.D.	<0.01	29.69
G31- 85	206.70	208.70	2	0.1	<0.5	0.83	N.D.	<0.01	35.23
G31- 86	208.70	210.70	2	0.1	<0.5	0.27	N.D.	<0.01	31.81
G31- 87	210.70	213.25	2.55	0.1	0.5	0.03	15	0.01	38.01

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AVERAGE	Length	Cu(%)	Zn(%)
massive Sulphide	72.00	1.66	0.04
181.30-213.25	31.95	0.27	0.01

MJOB-G32

Sample No.	Depth(m)		Length	Au(g/t)	Ag(g/t)	Cu(%)	Pb(ppm)	Zn(%)	Fe2O3
	From	To	(m)						(%)
G32- 1	169.35	170.35	1	0.1	1.1	1.40	37	0.07	57.14
G32- 2	170.35	171.35	1	0.1	1.0	1.84	31	0.05	54.30
G32- 3	171.35	172.70	1.35	0.2	1.3	1.80	37	0.05	51.46
G32- 4	172.70	173.10	0.4	<0.1	<0.5	0.14	N.D.	0.01	20.20
G32- 5	173.10	174.10	1	0.2	1.3	1.01	41	0.04	52.09
G32- 6	174.10	175.10	1	0.2	1.0	0.93	34	0.03	55.88
G32- 7	175.10	176.10	1	0.2	1.1	0.46	38	0.04	50.83
G32- 8	176.10	177.10	1	0.2	1.0	0.33	46	0.05	55.25
G32- 9	177.10	178.10	1	0.1	0.8	0.80	33	0.04	55.56
G32- 10	178.10	179.10	1	0.2	0.9	0.72	43	0.06	52.09
G32- 11	179.10	180.10	1	0.2	0.9	1.12	30	0.04	52.09
G32- 12	180.10	181.10	1	0.2	1.0	1.02	34	0.04	51.93
G32- 13	181.10	182.10	1	0.1	0.8	0.86	26	0.03	56.04
G32- 14	182.10	183.10	1	0.2	1.0	1.87	30	0.03	53.19
G32- 15	183.10	184.10	1	0.2	1.5	2.59	36	0.04	53.98
G32- 16	184.10	185.30	1.2	0.2	1.4	0.97	36	0.05	53.98
G32- 17	185.30	187.30	2	0.1	<0.5	0.05	N.D.	0.01	19.26
G32- 18	187.30	189.05	1.75	<0.1	<0.5	0.16	N.D.	0.03	19.89
G32- 19	189.05	190.05	1	0.2	1.5	2.07	30	0.05	54.30
G32- 20	190.05	191.05	1	0.1	1.2	1.45	31	0.06	49.09
G32- 21	191.05	192.05	1	0.1	0.5	0.50	10	0.03	35.99
G32- 22	192.05	193.05	1	0.1	1.1	0.86	33	0.04	50.67
G32- 23	193.05	194.05	1	0.1	1.0	1.27	28	0.04	53.19
G32- 24	194.05	195.05	1	0.1	0.6	1.17	22	0.05	54.46
G32- 25	195.05	196.05	1	0.2	0.6	1.46	20	0.06	53.98
G32- 26	196.05	197.05	1	0.1	0.5	0.91	14	0.04	55.88
G32- 27	197.05	198.05	1	0.2	0.5	1.07	20	0.05	54.14
G32- 28	198.05	199.05	1	0.2	0.6	1.00	25	0.06	53.67
G32- 29	199.05	200.05	1	0.2	0.7	1.06	26	0.05	53.67
G32- 30	200.05	201.05	1	0.2	0.6	1.30	20	0.05	54.93
G32- 31	201.05	202.05	1	0.2	0.5	1.37	23	0.06	54.30
G32- 32	202.05	203.05	1	0.2	0.5	1.50	29	0.07	55.40
G32- 33	203.05	204.05	1	0.2	0.6	1.52	23	0.07	56.51
G32- 34	204.05	205.05	1	0.2	0.7	1.76	33	0.08	55.72
G32- 35	205.05	206.05	1	0.2	0.6	1.52	25	0.06	54.46
G32- 36	206.05	207.05	1	0.2	0.7	1.66	38	0.06	55.72
G32- 37	207.05	208.05	1	0.1	0.5	1.01	28	0.06	54.62
G32- 38	208.05	209.00	0.95	0.1	0.7	1.43	17	0.03	52.56

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AVERAGE	Length	Cu(%)	Zn(%)
massive Sulphide	39.65	1.13	0.05

MJOB-G33

Sample No.	Depth(m)		Length (m)	Au(g/t)	Ag(g/t)	Cu(%)	Pb(ppm)	Zn(%)	Fe2O3 (%)
	From	To							
G33- 1	223.20	225.20	2	N.D.	<0.5	0.81	N.D.	0.01	21.52
G33- 2	225.20	227.20	2	N.D.	<0.5	0.51	N.D.	0.02	24.39
G33- 3	227.20	229.20	2	N.D.	<0.5	0.86	N.D.	0.10	22.32
G33- 4	229.20	230.95	1.75	N.D.	<0.5	0.62	N.D.	0.04	20.41
G33- 5	230.95	231.95	1	N.D.	1.2	1.54	27	0.06	54.53
G33- 6	231.95	232.95	1	N.D.	0.8	0.90	40	0.09	56.92
G33- 7	232.95	233.95	1	N.D.	1.2	1.41	36	0.06	56.92
G33- 8	233.95	235.40	1.45	N.D.	1.8	1.74	41	0.07	55.32
G33- 9	235.40	236.90	1.5	N.D.	N.D.	0.21	N.D.	0.02	19.45
G33- 10	236.90	237.90	1	0.3	2.2	0.90	78	0.10	52.77
G33- 11	237.90	238.90	1	0.2	1.8	0.79	56	0.06	54.37
G33- 12	238.90	239.90	1	0.2	1.4	0.63	47	0.10	57.40
G33- 13	239.90	240.90	1	0.2	1.6	1.03	70	0.05	53.73
G33- 14	240.90	241.90	1	0.2	1.4	1.02	47	0.04	55.32
G33- 15	241.90	242.90	1	0.2	0.9	0.80	27	0.04	51.18
G33- 16	242.90	243.90	1	0.2	1.1	0.43	31	0.03	54.21
G33- 17	243.90	244.90	1	0.2	1.6	0.35	38	0.03	53.57
G33- 18	244.90	245.90	1	0.1	1.4	0.49	24	0.03	52.61
G33- 19	245.90	247.40	1.5	0.1	0.9	0.39	16	0.06	40.66

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AVERAGE	Length	Cu(%)	Zn(%)
223.20-230.95	7.75	0.70	0.04
massive Sulphide	16.45	0.83	0.06

Comparative analysis of selected drilling cores.

Sample No.	Depth(m)		Length (m)	Au(g/t)	Ag(g/t)	Cu(%)	Pb(ppm)	Zn(%)	Fe2O3 (%)
	From	To							
G22- 5	96.55	97.55	1	<0.1	7.1	5.36	49	0.04	56.04
G22- 7	98.55	99.55	1	<0.1	3.2	2.98	44	0.03	53.04
G22- 9	100.55	101.55	1	<0.1	1.5	1.57	57	0.03	57.07
G22- 11	102.55	103.55	1	0.1	3.2	2.19	67	0.04	55.75
G22- 13	104.55	105.55	1	<0.1	8.0	1.06	129	0.03	51.23
G22- 15	106.55	107.55	1	0.3	11.8	3.57	106	0.05	61.36
G22- 17	108.55	110.20	1.65	0.2	4.8	0.85	177	0.03	62.49
G22- 19	112.20	114.20	2	<0.1	1.9	0.05	89	0.02	39.34
G30- 11	119.40	120.40	1	<0.1	5.3	7.24	15	0.02	57.53
G30- 12	120.40	121.40	1	<0.1	4.7	9.26	13	0.02	54.96
G30- 13	121.40	122.40	1	<0.1	2.6	6.31	11	0.01	58.16
G30- 14	122.40	123.40	1	<0.1	3.1	9.03	18	0.01	55.31
G30- 15	123.40	124.40	1	<0.1	0.9	9.60	<1	0.01	55.74
G30- 17	125.40	126.40	1	<0.1	2.8	10.56	24	0.02	55.26
G30- 19	127.40	128.40	1	<0.1	1.4	2.71	94	0.07	58.97
G30- 65	174.80	175.80	1	<0.1	1.4	2.26	57	0.04	61.79
G30- 67	176.80	177.80	1	<0.1	1.5	1.91	74	0.07	63.10
G30- 69	178.80	179.80	1	<0.1	<0.1	1.75	50	0.03	62.78
G30- 71	180.80	181.80	1	<0.1	0.7	0.56	55	0.03	62.18
G30- 73	182.80	183.80	1	<0.1	0.4	0.49	55	0.02	58.83

Geoscience Laboratory, Mitsubishi Materials Natural Resouces Development Corporation, Japan

Appendix 5

Assay results of surface samples

Ser. No.	Area Name	Sample No.	Coordinate		Au(g/t)	Ag(g/t)	Cu(%)	Pb(ppm)	Zn(%)	Fe2O3 (%)
			N(km)	E(km)						
1	Hara Kilab	HK-1	2660.00	464.51	<0.1	N.D.	0.10	26	0.02	48.72
2	Hara Kilab	HK-2	2660.04	464.48	0.2	N.D.	0.02	18	0.00	9.78
3	Hara Kilab	HK-3	2659.99	464.59	N.D.	<0.5	2.22	N.D.	1.62	2.48
4	Hara Kilab	HK-4	2659.85	464.83	N.D.	N.D.	0.11	N.D.	0.20	16.45
5	Hara Kilab	HK-5	2659.81	465.05	N.D.	N.D.	0.04	N.D.	0.03	13.19
6	Hara Kilab	HK-6	2659.77	464.97	N.D.	N.D.	0.03	N.D.	0.30	18.47
7	Hara Kilab	HK-7	2659.55	465.26	N.D.	N.D.	2.19	N.D.	0.02	9.00
8	Mahab 5&6	MB-1	2659.34	466.19	N.D.	N.D.	0.02	N.D.	0.01	3.60
9	Mahab 5&6	MB-2	2659.39	466.42	N.D.	<0.5	0.05	N.D.	0.05	16.74
10	Mahab 5&6	MB-3	2659.40	466.43	N.D.	N.D.	0.01	N.D.	0.06	7.66
11	Mahab 5&6	MB-5	2659.52	466.98	N.D.	N.D.	<0.01	N.D.	0.01	4.85
12	Mahab 5&6	MB-6	2659.55	467.02	N.D.	N.D.	<0.01	N.D.	<0.01	13.45
13	Mahab 5&6	MB-7	2659.08	467.17	N.D.	<0.5	<0.01	N.D.	0.01	20.65
14	Mahab 5&6	MB-8	2658.87	467.22	N.D.	<0.5	0.04	N.D.	0.13	28.15
15	Mahab 3	MB-10	2658.16	467.65	N.D.	<0.5	1.97	N.D.	0.32	6.41
16	Mahab 3	MB-11	2658.10	467.62	N.D.	<0.5	0.18	N.D.	0.05	14.23
17	Mahab 3	MB-12	2658.07	467.62	15.6	56.0	1.41	32	0.78	28.78
18	Mahab-2	MB-13	2653.80	473.03	0.2	1.3	0.76	N.D.	0.01	54.75
19	Mahab-2	MB-14	2653.84	473.02	<0.1	N.D.	0.58	N.D.	0.01	45.20
20	Mahab-4	MB-16	2656.91	469.13	0.2	<0.5	0.14	91	0.03	18.14
21	Mahab-4	MB-19	2656.72	469.28	0.2	<0.5	0.12	N.D.	0.01	17.36
22	Mahab-4	MB-20	2656.53	468.63	<0.1	<0.5	0.02	11	0.01	13.45
23	Mahab-4	MB-21	2656.16	468.80	N.D.	N.D.	0.07	N.D.	0.04	17.67
24	Mahab-4	MB-23	2656.02	468.82	<0.1	<0.5	1.18	10	0.05	13.61
25	Mahmum	MM-2	2655.95	470.20	0.6	<0.5	0.02	128	0.26	11.95
26	Mahmum	MM-4	2655.75	470.26	0.2	0.8	0.04	35	0.14	7.45
27	Bir Mohsen	BM-2	2653.88	475.42	N.D.	<0.5	0.05	53	0.03	20.17
28	Sarami	SM-1	2650.46	477.65	N.D.	N.D.	0.01	N.D.	<0.01	3.10
29	Sarami	SM-2	2650.34	477.64	N.D.	N.D.	0.02	N.D.	0.01	1.24
30	Sarami	SM-3	2650.27	477.87	N.D.	<0.5	3.71	N.D.	0.05	17.07
31	Sarami East	SE-2	2648.69	481.41	0.2	0.5	0.04	14	0.01	9.93
32	Sarami East	SE-3	2648.70	481.40	0.1	0.6	0.03	10	0.03	10.86
33	Sarami East	SE-4	2648.88	481.20	N.D.	N.D.	2.32	N.D.	0.01	12.26
34	Sarami East	SE-6	2648.94	481.40	0.6	<0.5	1.68	17	0.01	10.08
35	Listwaenite	LI-1	2642.34	482.22	<0.1	N.D.	<0.01	<10	<0.01	2.17
36	Listwaenite	LI-2	2642.34	482.25	N.D.	N.D.	<0.01	N.D.	0.01	6.21
37	Listwaenite	LI-3	2642.30	482.28	N.D.	N.D.	<0.01	N.D.	0.01	11.79
38	Listwaenite	LI-4	2642.35	482.12	N.D.	N.D.	<0.01	N.D.	0.01	8.85
39	Doqal West	DO-5	2639.27	484.39	N.D.	N.D.	<0.01	N.D.	<0.01	13.03
40	Doqal West	DO-6	2639.29	484.37	<0.1	N.D.	<0.01	<10	<0.01	7.29
41	Doqal West	DO-7	2639.31	484.32	0.2	N.D.	<0.01	N.D.	<0.01	14.43
42	Salahi V&VI	SH-1	2672.65	452.77	N.D.	<0.5	1.71	23	0.02	9.16
43	Salahi V&VI	SH-5	2672.35	452.35	N.D.	<0.5	0.18	72	0.01	9.00
44	Salahi V&VI	SH-6	2671.34	452.43	N.D.	<0.5	0.02	N.D.	<0.01	11.79
45	Salahi V&VI	SH-7	2671.68	451.55	0.1	0.5	2.25	17	0.03	9.31
46	Salahi I	SH-9	2670.12	454.03	N.D.	<0.5	0.02	N.D.	<0.01	4.97
47	Salahi I	SH-10	2670.04	454.11	9.2	0.7	0.01	222	0.05	4.19
48	Salahi I	SH-11	2670.76	454.13	1.9	<0.5	0.11	27	0.03	36.62
49	Salahi I	SH-12	2670.81	454.19	0.6	<0.5	0.07	21	0.04	24.36
50	Salahi I	SH-13	2671.78	454.14	<0.1	<0.5	0.03	11	0.01	8.38

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Ser. No.	Area Name	Sample No.	Coordinate		Au(g/t)	Ag(g/t)	Cu(%)	Pb(ppm)	Zn(%)	Fe2O3 (%)
			N(km)	E(km)						
51	Maqail	MQ-2	2663.74	455.52	N.D.	<0.5	<0.01	N.D.	<0.01	2.19
52	Maqail	MQ-3	2663.61	455.45	N.D.	<0.5	<0.01	N.D.	<0.01	3.44
53	Maqail	MQ-5	2663.89	455.97	N.D.	<0.5	<0.01	N.D.	<0.01	2.66
54	Maqail	MQ-6	2664.17	456.53	0.5	0.5	0.05	170	0.07	45.52
55	Maqail	MQ-7	2664.18	456.59	N.D.	N.D.	0.51	N.D.	0.05	9.69
56	Maqail South	MQ-8	2661.44	453.06	N.D.	<0.5	0.26	N.D.	0.01	37.85
57	Maqail South	MQ-9	2661.10	453.93	N.D.	<0.5	0.12	N.D.	<0.01	6.72
58	Maqail South	MQ-10	2661.44	453.49	N.D.	<0.5	2.32	N.D.	0.01	30.35
59	Maqail South	MQ-11	2661.36	454.60	N.D.	<0.5	0.19	294	0.23	17.67
60	Maqail South	MQ-12	2661.52	454.64	N.D.	<0.5	0.04	31	0.02	29.87

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Appendix 6

Description and photographs of polished sections of ore

Sample collected from the surface: SH-7	
Macroscopic Observation	Oxidized rock. Cavities are filled with fine network of goethite and partly with malachite and chrysocola.
Microscopic Observation	Pale grey parts suggest that the original rock was a silicified basalt, because a felsic texture consisting of lath-shaped gangue minerals filed with quartz grains is observed in these parts. Reddish brown parts represent oxidized silicified basalt disseminated densely with fine network of goethite (Photo 1). An irregular band of malachite and chrysocola occurs between the pale grey and reddish brown parts (Photo 2). Small patches of malachite with chrysocola and goethite are also observed in these two parts.

Sample collected from the surface: SH-11	
Macroscopic Observation	Oxidized rock. Cavities are filled with goethite of mammillary texture. No sulphides are observed.
Microscopic Observation	Thin goethite veinlets and small square cavities rimmed with thin films of mammillary goethite occurring in goethite disseminated silicified rock (Photo 3). Square cavities are probably the relicts of pyrite crystals leached during oxidation. Goethite consists of not only crystals that show smooth pale grey white polished surface, but also powder that is seen as rugged pale brownish grey with yellowish brown internal reflection.

Sample collected from the surface: SH-12	
Macroscopic Observation	Oxidized rock. Cavities are partly filled with patches of goethite.
Microscopic Observation	Oxidized silicified rock consists of two parts, i.e., one reddish brown smooth polished surface and another one, grey brown rugged surface densely disseminated with goethite. The reddish brown part represents a highly silicified rock with goethite veinlets of botryoidal texture occurring along cracks and grain boundaries of quartz. Some portions of the grey brown part still keep the original texture of basalt represented by the felsitic texture of laths with interstitial voids and fine-grained flakes of goethite. These portions also comprise complicated networks of goethite and quartz, and small patches of goethite aggregates (Photo 4).

Sample collected from the surface: MQ-6	
Macroscopic Observation	Massive pyrite ore. Fine-grained pyrite forming colloform texture.
Microscopic Observation	A mass of fine-grained pyrite comprises aggregates of colloform texture, concentric texture(Photo 5) or relicts of felsitic texture. Crystals of marcasite, the size of which is from 3 μ m to 100 μ m, occur in several places of pyrite aggregates along cracks and small cavities. Except for iron sulphides, no other sulphide minerals are observed.

Sample collected from the surface: MQ-8	
Macroscopic Observation	Magnetite-bearing dark color layered rock without sulphides.
Microscopic Observation	No significant differences are observed in constituent minerals, textures and sized throughout the polished surface. The constituent minerals are mainly hematite, magnetite and quartz. Hematite is generally less than 3 μ m in size, but magnetite is from 5 μ m to a maximum of 30 μ m. Grain size of quartz, which forms mosaic aggregates, ranges from 5 μ m to 20 μ m. Dark color bands comprise a great number of fine irregular grains of hematite densely distributed in mosaic aggregates of quartz with a few marmatized magnetite, occupying a quarter to one third of the polished area. Reddish brown bands, as same as the dark color bands, consist of hematite and quartz, but with less number of bands and grain size.

Sample collected from the surface: MQ-10	
Macroscopic Observation	Magnetite-bearing reddish brown layered rock without sulphides.
Microscopic Observation	Although the constituent minerals and texture are similar to those of MQ-8, but with smaller grain in size and less number of grains. Hematite replaces the majority of opaque minerals. Magnetite relicts are observed in some larger hematite grains, which are completely intact or slightly oxidized to hematite along small cracks in crystals. A small amount of minute pyrite inclusions are recognized in magnetite grains.

Sample collected from the surface: SE-2	
Macroscopic Observation	Silicified rock with slender goethite veinlets and some small cavities filled with pyrite.
Microscopic Observation	Several thin goethite veinlets penetrate the silicified rock. A few square aggregates of goethite which are possibly pseudomorph after pyrite, occur in quartz aggregates (Photo 6). Some euhedral crystals of pyrite (size between 60 to 100 μ m and fairly porous) occur is quartz. Goethite in veinlets and cavities comprises botryoidal texture or concentric texture with pale grey white fibrous crystals and pale brownish white porous powder portions.

Sample collected from drill cores: G18-254.70	
Macroscopic Observation	Massive sulphide ore with patches of pyrite (1～2mm in diameter). The matrix consists of fine-grained pyrite and some amounts of chalcopyrite.
Microscopic Observation	Pyrite occurs predominantly with some amounts of chalcopyrite. Euhedral crystals of pyrite range in size from 50 μ m to 1mm. On the other hand, minute anhedral grains of pyrite are roundish and with a size of less than 10 μ m. Chalcopyrite occurs filling the interstices of pyrite grains or wrapping small pyrite grains (Photos 7). Larger crystals are often intensively brecciated (Photo 8) and some parts of these cracks are filled with chalcopyrite.

Sample collected from drill cores: G18-256.80	
Macroscopic Observation	Banded ore with fine-grained pyrite bands and dark reddish brown siliceous bands. Pyrite occupies three quarters of the polished surface. Weakly magnetic
Microscopic Observation	Anhedral round grains and colloform-textured aggregates of pyrite, small patchy aggregates of minute magnetite grains and a small amount of chalcopyrite constitute thin bands. The relative abundance of these minerals differs from band to band, however, the size of the grain of pyrite and magnetite is distributed in a certain range dependent on the band, being the pyrite range much larger than magnetite. Pyrite is distributed in size from less than 10 μ m to 400 μ m, being most abundant in the range from 50～150 μ m. Some aggregates of minute pyrite grains represent ring-shaped colloform texture. Aggregates of minute magnetite grains fill up the center of some colloform-textured pyrite aggregates. Larger grains of pyrite are often porous. Chalcopyrite occurs in quartz forming small patches and filling the interstices of pyrite and magnetite grains.

Sample collected from drill cores: G18-259.30	
Macroscopic Observation	Banded ore with intermediate or fine-grained pyrite and fine-grained magnetite and reddish brown siliceous bands. Pyrite and magnetite bands occupy four fifths of the polished surface. Strongly magnetic.
Microscopic Observation	Although the structure and texture are similar to those of the sample G18-256.80, magnetite occurs abundantly, especially in patches of 300～500 μ m in size (Photo 9). The patches which consist of fine granular grains of 1～15 μ m in size, are porous and containing many pyrite grains and also rarely minute grains (1～25 μ m in diameter) of hematite. In quartz enclosing these magnetite patches are recognized many minute hematite flakes of less than a few micrometers. Pyrite crystals are also porous. Very fine pyrite grains occur sporadically in quartz. Relative amount of pyrite and magnetite is almost same. A small amount of chalcopyrite occurs in the interstices of pyrite, magnetite and quartz grains.

Sample collected from drill cores: G22-98.40	
Macroscopic Observation	Compact massive sulphide ore comprises sulphide ore. It comprises pyrite of various grain sizes, predominating the larger grains. Chalcopyrite occurs either in the interstices of large grains of pyrite or with fine-grained pyrite of colloform texture.
Microscopic Observation	Massive sulphide ore comprises pyrite grains of large and intermediate size and chalcopyrite (Photo 10). Pyrite grains larger than 1mm are remarkable brecciated and the cracks are filled up with chalcopyrite forming an irregular network. Some pyrite crystals of intermediate or small size are subhedral or euhedral. A breccia veinlet which has a great amount of small breccias of pyrite and chalcopyrite cuts through the massive aggregate of pyrite and chalcopyrite (Photo 11).

Sample collected from drill cores: G22-103.60	
Macroscopic Observation	Compact massive sulphide ore consists of pyrite of various grain sizes and patches as well as veinlets of chalcopyrite. Large grains of pyrite are generally brecciated and rounded. Fine-grained pyrite forms porous colloform texture. Weakly magnetic.
Microscopic Observation	Compared to G22-98.40, this sample is more abundant in colloform-texture pyrite than in crystal. Patchy aggregates of minute magnetite grains accompany the pyrite aggregates. The magnetite aggregates comprise very fine granular grains of 1～10 μ m. Small pyrite rings of colloform texture link to form irregular networks with small subhedral grains of pyrite, being the interstices filled with chalcopyrite (Photo 12).

Sample collected from drill cores: G26-82.00	
Macroscopic Observation	Massive ore mixture of magnetite, pyrite and chalcopyrite. Round grains of pyrite distribute in magnetite-quartz base. Pyrite grains are generally round and distribute in a fairly limited range of size. Magnetite forms radial or parallel aggregates of flaky crystals and includes small grains of pyrite. Chalcopyrite occurs in irregular forms of various sizes filling the interstices of the grains of other minerals. Strongly magnetic.
Microscopic Observation	Pyrite occurs in quartz aggregates as round anhedral grains in the size range of 10～600 μ m, but mainly between 50～150 μ m. Some of them are brecciated. Enclosing these pyrite grains, magnetite aggregates occur as radial or parallel bundles of long flaky crystals. Small bunches of magnetite crystals occur in chalcopyrite (Photo 13). Small flakes of hematite (10～300 μ m in length) and small grains of pyrite (5～150 μ m in diameter) are included in some places. Chalcopyrite fills up the interstices of crystals and bundles of these two minerals.

Sample collected from drill cores: G26-85.80	
Macroscopic Observation	Massive magnetite ore with some dissemination of small pyrite grains. Strongly magnetic.
Microscopic Observation	Mode of occurrence of minerals is similar to that of G26-82.00, but it lacks chalcopyrite. Long flaky crystals of magnetite are much larger than those of G26-82.00. Hematite crystals are also larger (100～600 μ m in length) and occur more abundantly (Photo 14). In some places, magnetite flakes make a rossete-like arrangement. Pyrite is much less abundant.

Sample collected from drill cores: G30-121.80	
Macroscopic Observation	Copper-rich massive ore. Chalcopyrite occupies about one third of the polished surface. Large crystals of pyrite show a smooth surface, however, the surface of the aggregates of pyrite is somewhat rough.
Microscopic Observation	Large subhedral or rounded crystals of pyrite range in size between 50～500 μ m, and occur in gangue with chalcopyrite. A breccia veinlet cuts through the assemblage of chalcopyrite, pyrite and gangue. Besides these crystals, nodule-like aggregates of pyrite (maximum diameter of several hundred μ m) are observed in some parts. Crystal of pyrite are about 100～300 μ m in the periphery of the nodule, but become as small as 10 μ m in the inner side. Small nodule-like aggregates of minute pyrite grains (10～30 μ m in diameter) distribute in the chalcopyrite matrix (Photo 15). Chalcopyrite also fills the interstice of pyrite grains forming a complicated network (Photo 16). Larger modules contain many small blebs of chalcopyrite. Textures of pyrite aggregates suggest that the aggregates have recrystallized from chalcopyrite-bearing pyrite colloids.

Sample collected from drill cores: G30-125.10	
Macroscopic Observation	Copper-rich massive ore. Chalcopyrite occupies more than half of the polished surface. Pyrite crystals are generally large and partly fractured. Some central parts of pyrite aggregates show colloform texture but in small amounts.
Microscopic Observation	The general texture is similar to that of the sample G30-121.80. Some large pyrite crystals are euhedral and as large as 800 μ m in size. Many large pyrite crystals are irregularly fractured and filled with chalcopyrite forming complicated networks in pyrite (Photo 17). In some parts, pyrite forms links of small modules, indicating the relict of colloform texture.

Sample collected from drill cores: G30-187.70	
Macroscopic Observation	Copper-poor massive pyrite ore. Anhedral pyrite crystals cover more than half of the polished surface and the result is occupied by aggregates of fine pyrite grains with some minute pyrite grains forming fine mesh-like texture in quartz. The sample shows a vague sub-parallel banded structure made by zones of coarse pyrite crystals, zones of porous fine pyrite grains and zones of pyrite and gangue. Chalcopyrite is hardly identified by the naked eyes.
Microscopic Observation	Mosaic aggregates of coarse pyrite crystals partly accompany extended zones of porous aggregates of fine pyrite grains. The transition of these zones is gradual. Linked arrays of very fine pyrite grains (2~8 μ m in diameter) in quartz or small concentric nodules of fine pyrite grains indicate the colloidal origin. Chalcopyrite occurs not only in porous pyrite aggregates as small blebs of irregular shapes, but also in the interstices of pyrite crystals.

Sample collected from drill cores: G33-241.40	
Macroscopic Observation	Large module-like aggregates (up to about 2mm in diameter) consisting of pyrite crystals of varied sizes occupy the major part of the polished surface. Pyrite aggregates of rough polished surface, occur in nodules giving a concentric appearance. Chalcopyrite can hardly be observed by the naked eye.
Microscopic Observation	The periphery of a module comprises coarse subhedral pyrite crystals, the size of which is from 0.5 mm to 4mm, but mostly in the range of 1 to 2 mm. The inner parts have porous zones consisting of aggregates of fine pyrite grains and chalcopyrite inclusions of irregular shapes and gangue. Large pyrite crystals contain many small blebs of chalcopyrite and sphalerite with exsolved chalcopyrite (Photos 18).

Photo. 1
Sample no.: SH-7

Silicified basalt lava

Go: Goethite

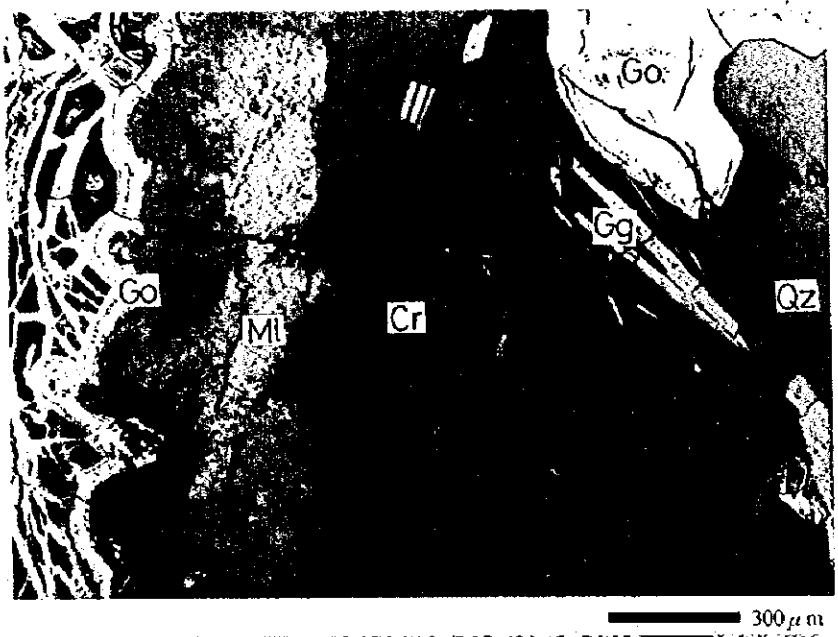

Photo. 2
Sample no.: SH-7

Silicified basalt lava

Go: Goethite
Ml: Malachite
Cr: Chrysocola
Gg: Gangue
Qz: Quartz

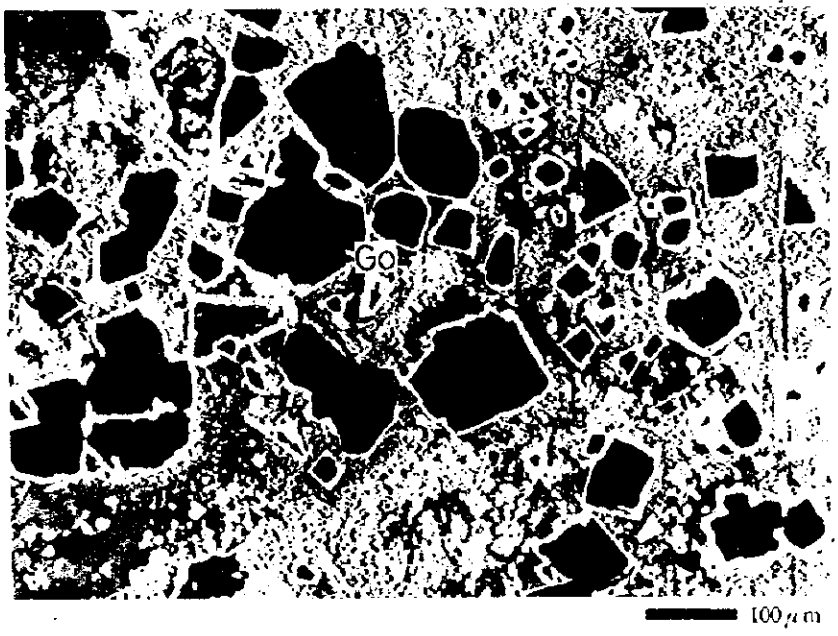

Photo. 3
Sample no.: SH-11

Gossanized rock with limonite vein

Go: Goethite

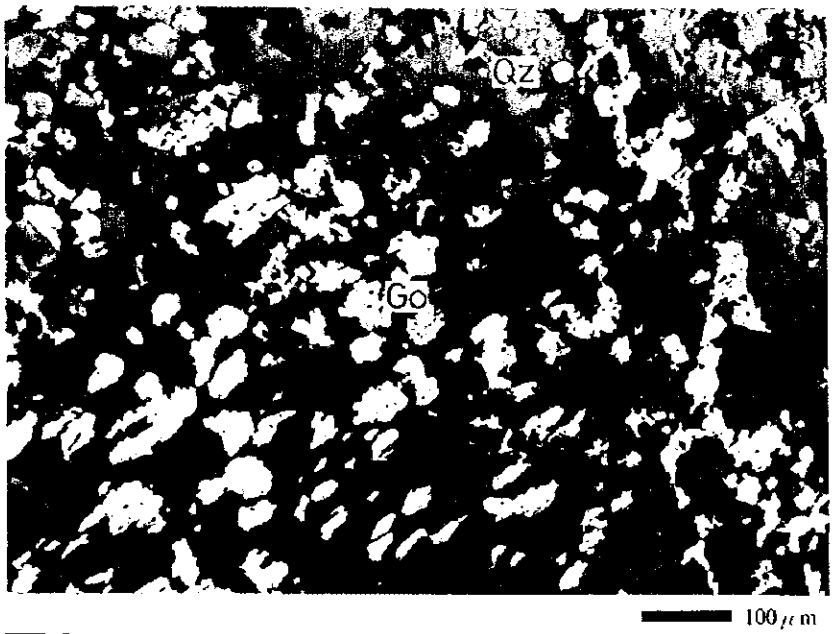

Photo. 4

Sample no.: SH-12

Gossanized metalliferous sediments

Go: Goethite
Qz: Quartz

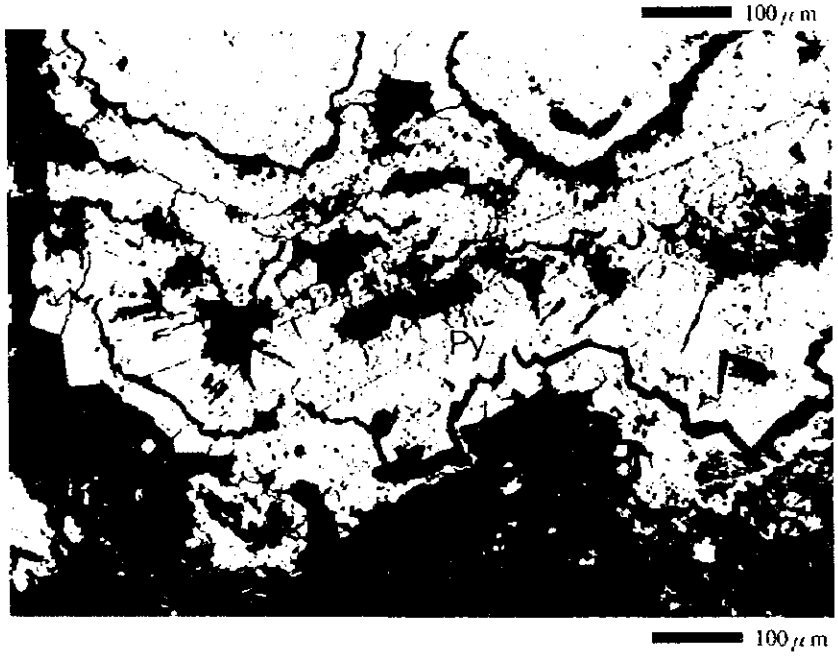

Photo. 5

Sample no.: MQ-6

Massive pyrite ore

Py: Pyrite

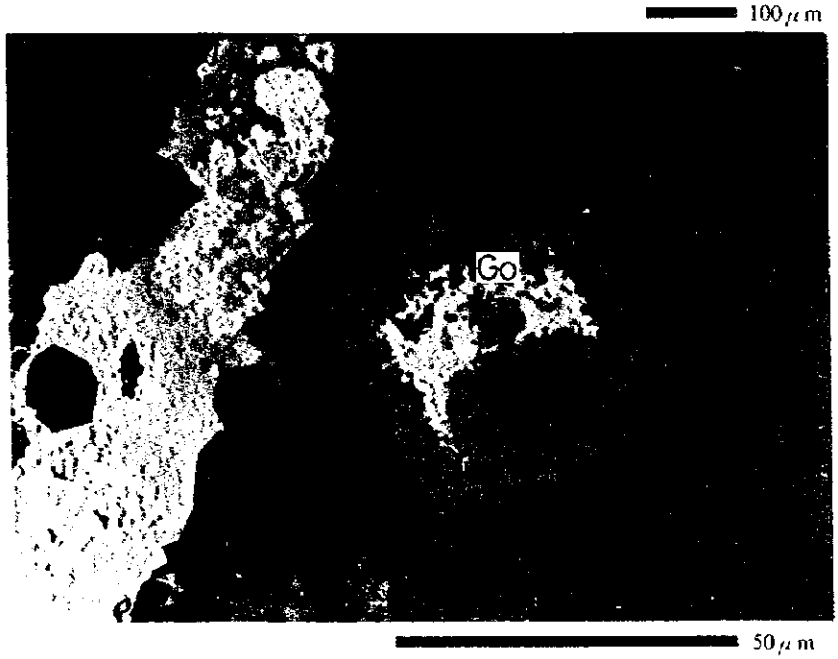

Photo. 6

Sample no.: SE-2

Silicified rock with quartz veinlets

Go: Goethite

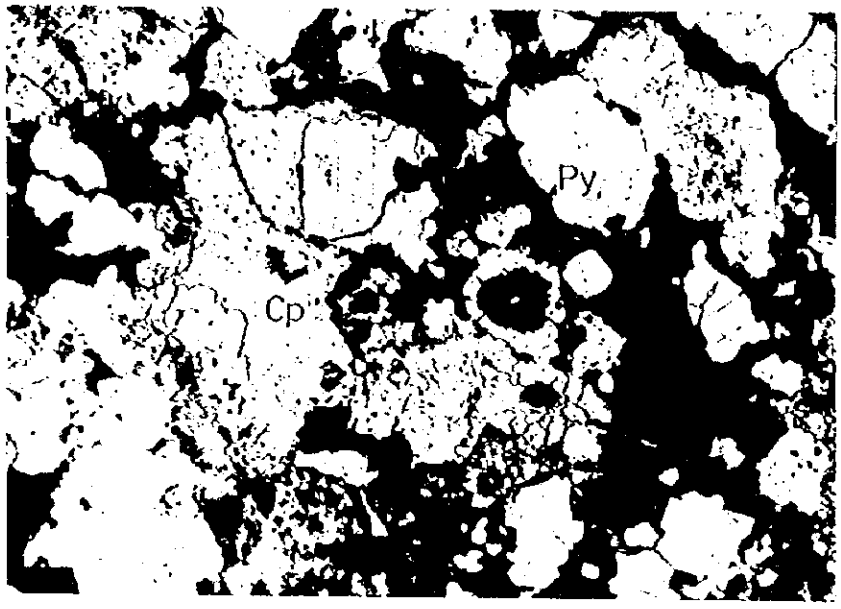

Photo. 7
Bore hole no.: G18
Depth: 254.70m
Massive sulphide ore

Py: Pyrite
Cp: Chalcopyrite

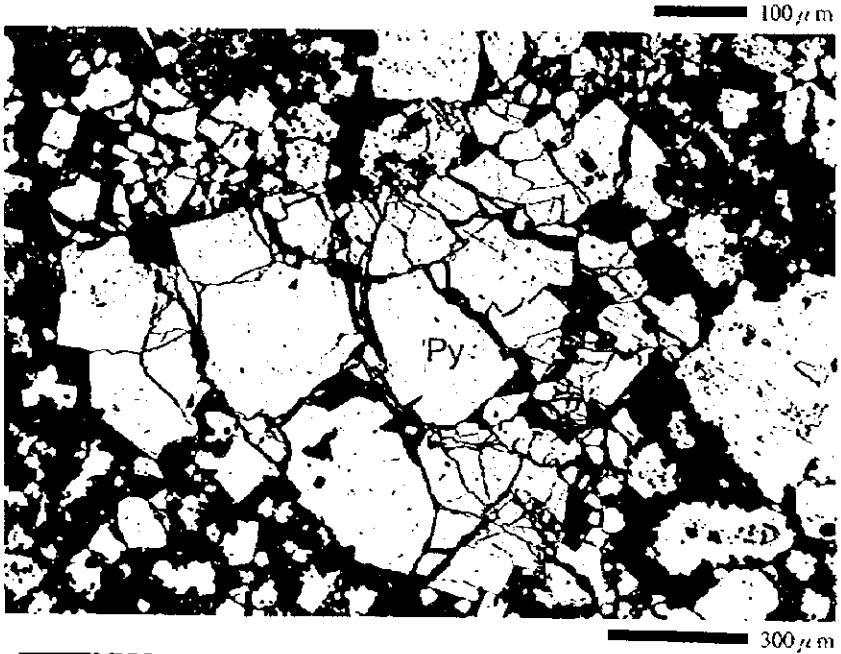

Photo. 8
Bore hole no.: G18
Depth: 254.70m
Massive sulphide ore

Py: Pyrite

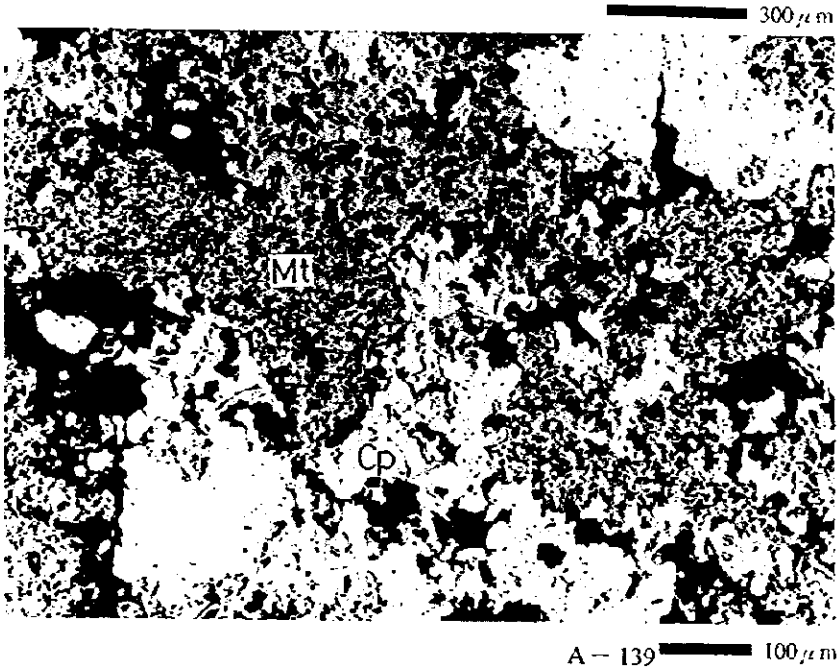

Photo. 9
Bore hole no.: G18
Depth: 259.30m
Massive sulphide ore

Cp: Chalcopyrite
Mt: Magnetite

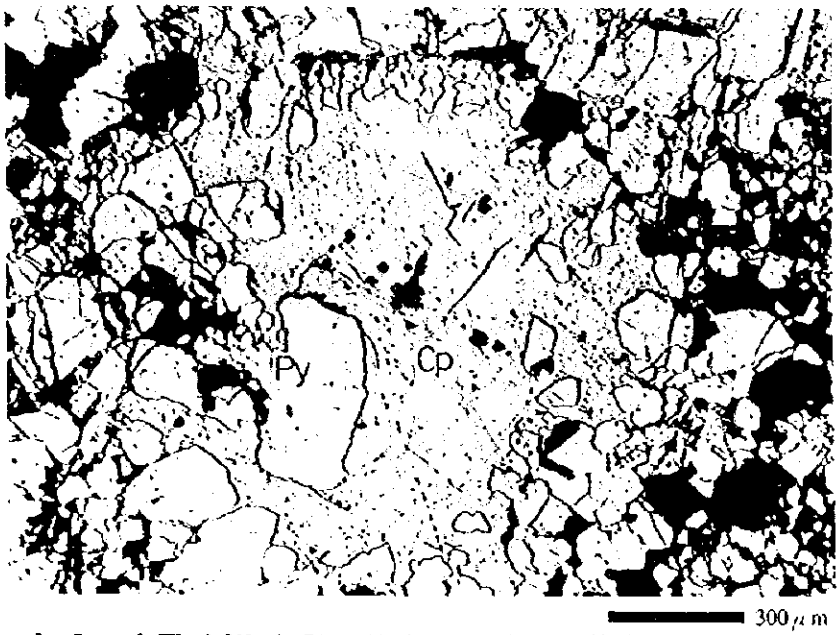

Photo. 10
Bore hole no.: G22
Depth: 98.40m
Massive sulphide ore

Py: Pyrite
Cp: Chalcopyrite

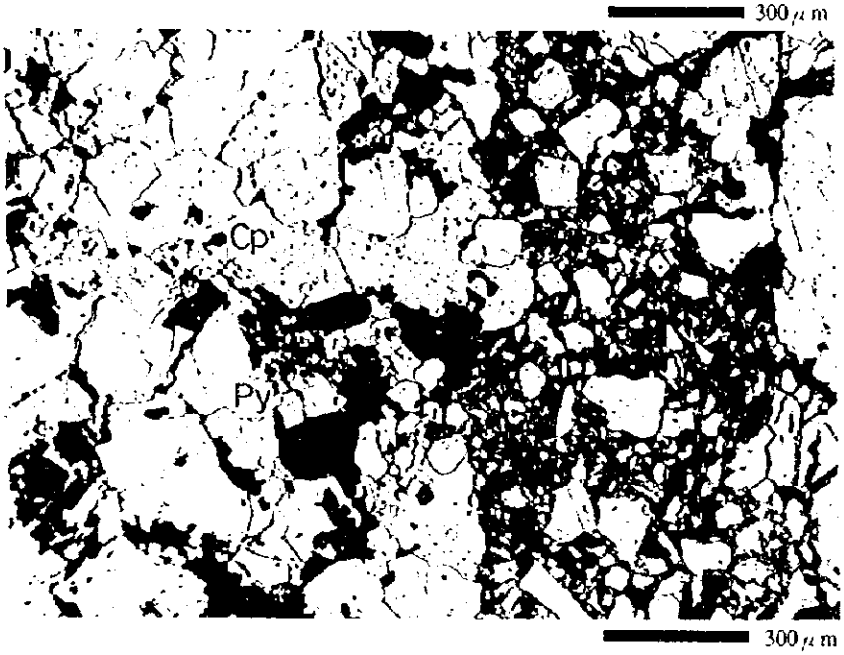

Photo. 11
Bore hole no.: G22
Depth: 98.40m

Massive sulphide ore

Py: Pyrite
Cp: Chalcopyrite

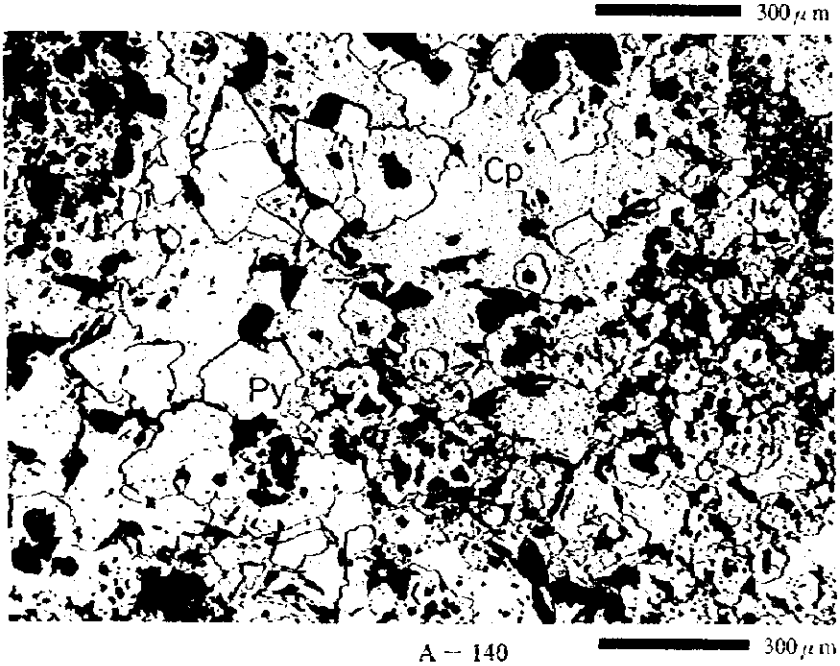

Photo. 12
Bore hole no.: G22
Depth: 103.60m

Massive sulphide ore

Py: Pyrite
Cp: Chalcopyrite

Photo. 13

Bore hole no.: G26
Depth: 82.00m

Massive magnetite ore

Py: Pyrite
Cp: Chalcopyrite
Mt: Magnetite

Photo. 14

Bore hole no.: G26
Depth: 85.00m

Massive magnetie ore

Mt: Magnetite
Ht: Hematite

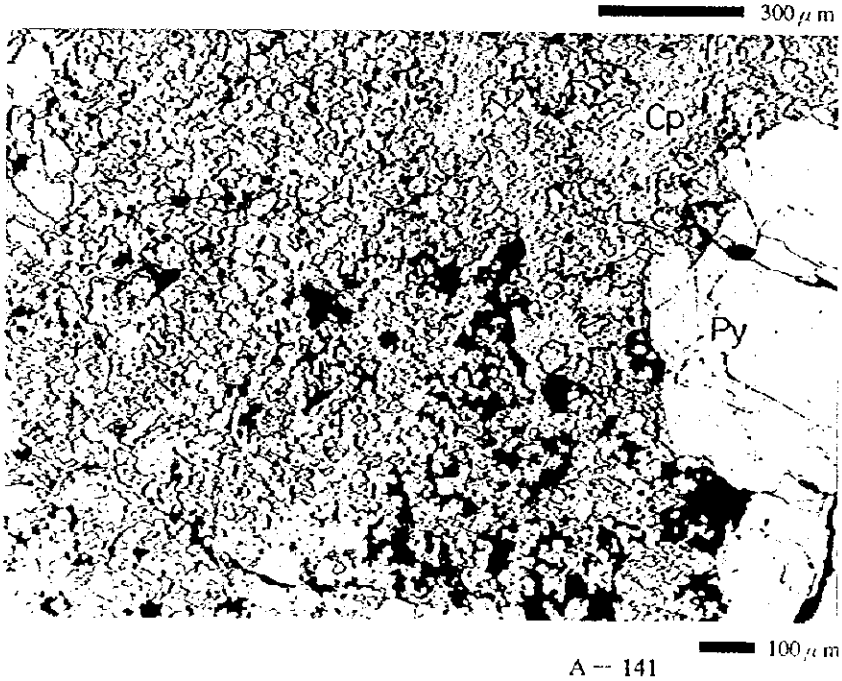

Photo.15

Bore hole no.: G30
Depth: 121.80m

Massive sulphide ore

Py: Pyrite
Cp: Chalcopyrite

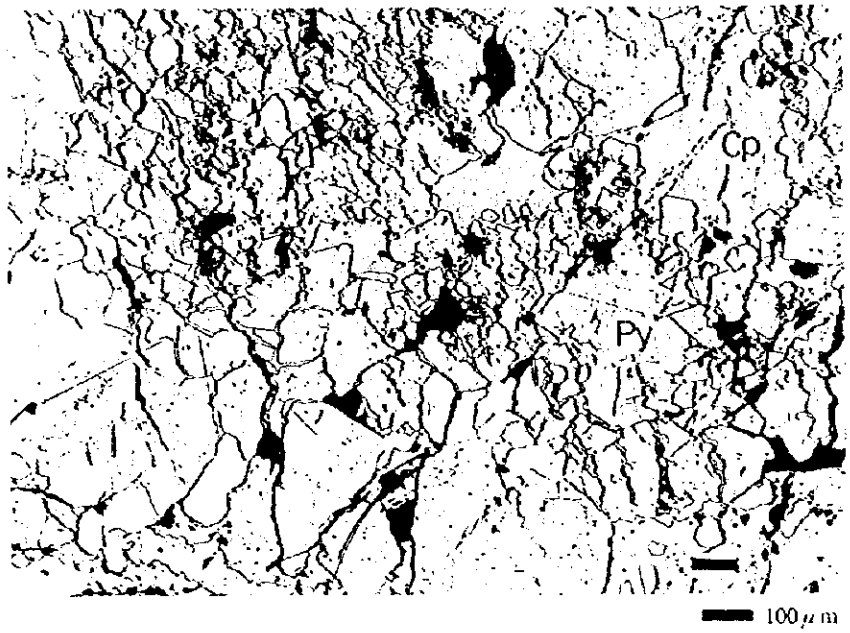

Photo.16
Bore hole no.: G30
Depth: 121.80m

Massive sulphide ore

Py: Pyrite
Cp: Chalcopyrite

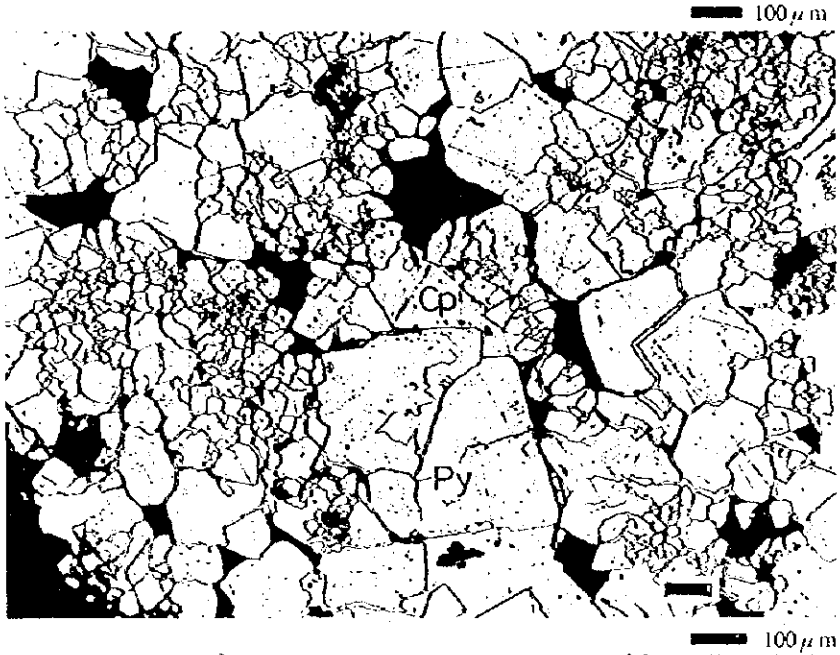

Photo.17
Bore hole no.: G30
Depth: 125.10m

Massive sulphide ore

Py: Pyrite
Cp: Chalcopyrite

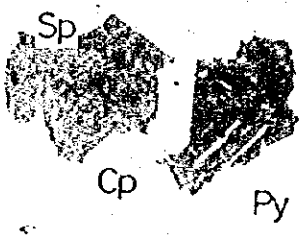

Photo.18
Bore hole no.: G33
Depth: 241.40m

Massive sulphide ore

Py: Pyrite
Cp: Chalcopyrite
Sp: Sphalerite