

Appendix- 1-2 List of Samples Tested (Drill Core)

Sample No.	Location		Formation or Group	Rock Type	Hand Specimen	Thin Section	Polished Section	Item tested					Remarks
	Topo. Map	* UTM Grid X Y						Chemical Analysis	X-Ray Diffract.	K-Ar Dating	Fossil Identification	EPMA	
DDH No. MJ-1													
23.40		691, 1693 042 660	Tactic F. Intrusive	Siltstone Bleached rhyolite.					o				
72.70		" "	"	"					o				
88.40		" "	"	"					o				
102.50		" "	"	Altered quartz porphyry		o			o				
109.40		" "	"	Quartz porphyry		o			o				
112.40		" "	"	Altered quartz porphyry		o			o				
114.40		" "	"	"		o			o				
124.00		" "	"	"		o			o				
127.00		" "	"	"		o			o				
138.70		" "	"	"		o			o				
148.50		" "	"	Quartz porphyry		o			o				
161.10		" "	"	Altered quartz porphyry		o			o				
162.40		" "	"	Quartz porphyry		o			o				
162.80		" "	"	Quartz diorite porphyry		o			o				
223.60		" "	Chicol F.	Sericite quartz schist		o			o				
227.40		" "	Intrusive	Hornblende granophyre		o			o				
231.50		" "	"	Quartz porphyry		o			o				
232.70		" "	Chicol F.	Quartz sericite schist		o			o				
235.10		" "	"	Sericite quartz schist		o			o				
246.00		" "	Intrusive	Altered granophyre.		o			o				
255.90		" "	Chicol F.	Green schist		o			o				
DDH No. MJ-2													
26.10		691, 1693 137 775	Tactic F. rock	Quartz-epidote schist					o				
36.70		" "	Chicol F.	Quartz muscovite schist					o				
37.40		" "	"	Magnetite-epidote rock					o				

\* Topo. Map: Sheet No. of 1/50,000 IGN quadrangle map.

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	Topo. Map	* UTM Grid X Y						Formation or Group	Rock Type	Hand Specimen	Thin Section	Polished Section		Chemical Analysis	X-Ray Diffract.	K-Ar Dating	Fossil Identification	EPMA
DPH No. 40.10																		
691.1693			Intrusive	Altered quartz porphyry		o												
137			"	Quartz porphyry		o												
775			"	Altered quartz porphyry		o												
94.80			"	Quartz porphyry		o												
94.90			"	"		o												
113.40			"	"		o												
117.00			"	"		o												
183.40			Choccol F.	Siliceous green schist		o												
244.30			"	"		o												
261.70			Intrusive	Rhyolite		o												
277.60			Chicol F.	Sericite quartz schist		o												
281.90			"	Green schist		o												
282.40			"	Sericite quartz schist		o												
295.00			Intrusive	Sheared rhyolite		o												
MJ-3																		
16.40			Tactie F.	Siltstone		o												
25.00			"	"		o												
39.50			"	Epidote rock		o												
61.00			Chicol F.	Chlorite quartz schist		o												
75.50			"	Green schist		o												
85.80			"	Sericite quartz schist		o												
92.00			"	Chlorite quartz schist		o												
100.70			"	Sericite quartz schist		o												
109.30			"	Garnet epidote skarn		o												
121.30			"	Chlorite quartz schist		o												
125.00			"	Sericite quartz schist		o												
155.60			Intrusive	Quartz porphyry		o												
164.30			"	Altered quartz porphyry		o												

\* Topo. Map: Sheet No. of 1/50,000 IGN quadrangle map.



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Sample No.	Location		Formation or Group	Rock Type	Hand Specimen	Thin Section	Polished Section	Item tested					Remarks
	Topo. Map	UTM Grid X Y						Chemical Analysis	X-Ray Diffract.	K-Ar Dating	Fossil Identification	EPMA	
DDH No. MJ-3 182.70	690.	1693 116	Intrusive	Altered quartz porphyry		o							
188.50	"	" 998	"	Altered rhyolite		o							
195.40	"	" "	"	Altered quartz porphyry		o							
197.90	"	" "	"	Quartz porphyry				o					
DDH No. MJ-4 1	689.	1694 958		Limonite stain in argillized rock.			o						64.70 - 65.60
2	"	" "		do			o						65.6- - 65.90
3	"	" "		do			o						65.90 - 66.30
4	"	" "		do			o						75.75 - 75.95
5	"	" "		do			o						81.50 - 81.90
6	"	" "		do			o						83.10 - 83.40
7	"	" "		Pyrite veinlet and dissemination in chloritized rock.			o						86.00 - 86.40
8	"	" "		do			o						86.40 - 87.40
9	"	" "		do			o						87.40 - 88.80

\* Topo. Map: Sheet No. of 1/50,000 IGN quadrangle map.



Appendix 1-2 List of Samples Tested (Drill Core)

Sample No.	Location (Coordinate)		Rock Type and/or Occurrence of Metallic Minerals	Items Tested				Remarks
	E	N		Hand Specimen	Thin Section	Polished Section	Chemical Analysis	
DDH No. MJ-4 10	689.958	1694.023	Pyrite veinlet and dissemination in chloritized rock					88.80 - 89.80
11	"	"	do					89.80 - 90.20
12	"	"	do					90.20 - 90.80
13	"	"	Pyrite veinlets and dissemination in epidote rock					90.80 - 91.80
14	"	"	do					91.80 - 92.60
15	"	"	do					92.70 - 93.00
16	"	"	Dense pyrite dissemination in epidote rock					93.00 - 93.80
17	"	"	do					93.80 - 95.80
18	"	"	do					95.80 - 96.40
19	"	"	Pyrite dissemination in siliceous rock					96.40 - 97.30
20	"	"	do					97.30 - 98.00
43	"	"	Pyrite dissemination in argillized rock					104.40 - 105.60
21	"	"	Limonite stain in argillized rock					112.00 - 113.20
22	"	"	do					113.20 - 113.80
23	"	"	Limonite stain and pyrite dissemination in epidote rock					113.80 - 114.65
24	"	"	Pyrite dissemination in silicified rock					127.00 - 127.70
25	"	"	do					127.70 - 128.60
26	"	"	do					128.60 - 129.30
27	"	"	do					129.30 - 130.30
28	"	"	do					130.30 - 131.20





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	E	N		Hand Specimen	Thin Section	Polished Section	Chemical Analysis	
DDH No. MJ-4 29	689.958	1694.023	Pyrite dissemination in silicified rock				o	131.20 - 131.70
30	"	"	do				o	131.70 - 132.80
31	"	"	do				o	132.80 - 133.80
32	"	"	Pyrite dissemination in argillized rock				o	133.80 - 135.20
33	"	"	do				o	135.20 - 135.50
34	"	"	Pyrite dissemination in chloritized rock				o	139.10 - 140.10
35	"	"	Massive pyrite				o	140.10 - 140.60
36	"	"	Pyrite dissemination in silicified rock				o	140.60 - 140.90
37	"	"	Pyrite dissemination in argillized rock				o	140.90 - 141.20
38	"	"	Vein-form pyrite in silicified rock				o	141.20 - 141.70
39	"	"	Pyrite dissemination in chloritized rock				o	142.80 - 143.20
40	"	"	Pyrite dissemination in epidote rock				o	147.40 - 148.00
41	"	"	Pyrite dissemination in fractured zone				o	148.00 - 148.40
42	"	"	Pyrite dissemination in argillized rock				o	149.80 - 150.20
15.70	"	"	Sandstone					o
35.60	"	"	Siltstone					o
65.70	"	"	Gossan					o
86.50	"	"	Garnet bearing epidote-quartz rock			o		o
87.30	"	"	Skarn					o
91.40	"	"	Epidote rock					o



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	E	N		Hand Specimen	Thin Section	Polished Section	Chemical Analysis	
DDH No. MJ-4	92.60	1694.023	Garnet bearing quartz-epidote rock					
112.30	"	"	Pyrite mineralized rock	o				o
131.65	"	"	Silicified rock					o
140.15	"	"	Massive pyrite					o
140.50	"	"	Massive pyrite with minor amount of epidote					
150.00	"	"	Chlorite quartz schist		o			o
DDH No. MJ-5	1	1693.927	Limonite stain in granitic rock				o	24.80 - 25.30
2	"	"	do				o	62.90 - 63.30
3	"	"	Pyrite dissemination in epidote rock				o	80.30 - 80.80
4	"	"	do				o	80.80 - 81.60
5	"	"	do				o	83.20 - 83.90
6	"	"	do				o	84.60 - 85.30
7	"	"	Pyrite dissemination in altered chlorite quartz schist				o	91.90 - 92.20
8	"	"	do				o	92.20 - 93.50
9	"	"	do				o	93.50 - 94.20
10	"	"	do				o	100.50 - 101.10
11	"	"	Pyrite dissemination in epidote rock				o	116.40 - 116.50
12	"	"	do				o	116.50 - 117.50
13	"	"	do				o	117.50 - 119.30



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Sample No.	Location (Coordinate)		Rock Type and/or Occurrence of Metallic Minerals	Items Tested				Remarks
	E	N		Hand Specimen	Thin Section	Polished Section Analysis	X-ray Diffrac- tometry	
DDH No. MJ-5 14	690.113	1693.927	Pyrite dissemination in clastic rock			o		119.30 - 119.45
15	"	"	Pyrite dissemination in epidote rock			o		119.45 - 120.40
16	"	"	do			o		120.40 - 121.30
17	"	"	Pyrite dissemination in chloritized rock			o		130.60 - 131.30
10.60	"	"	Granitic rock				o	
37.20	"	"	Granitic rock				o	
56.30	"	"	Altered granite		o			
57.80	"	"	Granitic rock		o			
75.80	"	"	Clastic granite		o			
83.40	"	"	Epidote rock				o	
93.80	"	"	Sericite chlorite quartz schist		o			
119.20	"	"	Mineralized rock				o	
119.30	"	"	Skarn		o			
119.43	"	"	Epidote-sericite-quartz rock		o			
120.40	"	"	Garnet bearing epidote quartz rock		o			
150.90	"	"	Sericite chlorite quartz schist				o	
DDH No. MJ-6 1	690.848	1694.009	Siltstone			o		22.50 - 24.80
2	"	"	Magnetite dissemination in quartz porphyry			o		45.80 - 46.30
3	"	"	Quartz porphyry			o		56.40 - 57.20



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	E	N		Hand Specimen	Thin Section	Polished Section	Chemical Analysis	
DDH No. MJ-6	690.848	1694.009	Pyrite dissemination in quartz-chlorite vein					89.00 - 89.10
4	"	"	Quartz-chlorite vein					109.80 - 110.20
5	"	"	Pyrite-chlorite-quartz vein					92.00 - 92.50
6	"	"	Siltstone					
20.90	"	"	Altered dacite					
46.10	"	"	Altered dacite					
57.10	"	"	Sandstone					
71.50	"	"	Conglomerate schist					
98.45	"	"	Chlorite quartz schist					
99.00	"	"	Sericite quartz schist					
119.50	"	"	Sericite chlorite schist					
133.80	"	"						
DDH No. MJ-7	690.260	1693.890	Limonite stain in porous rock					15.00 - 15.80
1	"	"	do					15.80 - 16.30
2	"	"	do					16.30 - 17.00
3	"	"	Limonite stain in siltstone					17.00 - 17.40
4	"	"	do					17.40 - 18.90
5	"	"	Quartz veinlets with limonite stain in siltstone					34.60 - 35.20
6	"	"	Pyrite dissemination with limonite stain in argillized rock					51.70 - 52.30
7	"	"						





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	E	N		Hand Specimen	Thin Section	Polished Section	Chemical Analysis	
DDH No. NJ-7 8	690.260	1693.890	Pyrite dissemination in fractured zone				o	75.60 - 75.80
9	"	"	Magnetite dissemination in chlorite-epidote rock				o	81.60 - 82.75
10	"	"	Pyrite dissemination in silicified rock				o	84.00 - 84.10
13	"	"	Galena impregnation in silicified rock				o	84.10 - 85.00
11	"	"	Pyrite dissemination in silicified rock				o	88.70 - 89.30
14	"	"	do				o	92.80 - 93.10
12	"	"	do				o	100.10 - 100.70
15	"	"	Magnetite dissemination in epidote rock				o	122.30 - 123.60
16	"	"	Pyrite dissemination in epidote rock				o	124.50 - 125.60
17	"	"	Pyrite dissemination in epidote rock				o	125.60 - 126.40
18	"	"	Pyrite dissemination in garnet rock				o	126.40 - 127.00
19	"	"	Magnetite-pyrite dissemination in epidote-garnet rock				o	127.00 - 127.90
20	"	"	Pyrite stringer in epidote rock				o	127.90 - 128.80
21	"	"	Pyrite dissemination in epidote rock				o	143.10 - 143.70
22	"	"	do				o	161.20 - 161.80
23	"	"	do				o	166.50 - 167.20
24	"	"	Magnetite-pyrite stringer in altered chlorite quartz schist				o	172.70 - 174.70
25	"	"	Magnetite stringer in chloritized rock				o	178.70 - 179.60
26	"	"	Magnetite dissemination in silicified rock				o	180.70 - 181.10
27	"	"	do				o	187.90 - 188.10



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	E	N		Hand Specimen	Thin Section	Polished Section	Chemical Analysis		X-ray Diffraction
DDH No. MJ-7	690.260	1693.890	Magnetite-pyrite dissemination in silicified rock						
28	"	"	do				o		188.10 - 188.40
29	"	"	do				o		191.00 - 191.70
30	"	"	do				o		191.70 - 192.40
31	"	"	Magnetite dissemination in silicified rock				o		192.40 - 192.80
32	"	"	do				o		192.80 - 193.40
33	"	"	do				o		248.20 - 248.70
13.80	"	"	Sandstone						
17.70	"	"	Sandstone						
30.60	"	"	Sandstone						
36.20	"	"	Altered sandstone			o			
61.90	"	"	Siltstone						
76.55	"	"	Altered chlorite quartz schist			o			
82.75	"	"	Skarn (Pyrite, Magnetite)						
82.90	"	"	Massive pyrite						
117.60	"	"	Granitic rock						
123.35	"	"	Skarn (Pyrite)						
126.30	"	"	Chlorite-tremolite-epidote rock						
127.00	"	"	Garnet skarn			o			
155.30	"	"	Chlorite quartz schist						
181.70	"	"	Altered rhyolite or quartz porphyry			o			



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	E	N		Hand Specimen	Thin Section	Polished Section	Chemical Analysis		X-ray Diffraction
DDH No. MJ-7	690.260	1693.890	Massive magnetite			o			
192.40	"	"	Magnetite mineralized rock					o	
196.30	"	"	Altered rhyolite or quartz porphyry			o			
200.80	"	"	Sericite chlorite quartz schist			o			
206.70	"	"	Quartz schist			o			
222.10	"	"	Sericite chlorite quartz schist			o			
223.90	"	"	Magnetite mineralized rock					o	
224.00	"	"	Altered quartz porphyry			o			
224.80	"	"	Altered granite			o			
242.40	"	"	Altered quartz porphyry			o			
251.90	"	"	Altered quartz porphyry			o			
266.00	"	"	Altered quartz porphyry			o			
283.20	"	"	Chlorite schist					o	
DDH No. MJ-8	690.400	1694.198	Limonite stain in siltstone						12.00 - 12.30
1	"	"	do						70.00 - 70.70
2	"	"	Limonite magnetite in sandstone						96.30 - 97.00
3	"	"	do						100.70 - 101.50
6	"	"	Pyrite dissemination in chloritized rock						125.00 - 126.75
5	"	"	Limonite stain in chlorite schist						144.60 - 144.90
4	"	"							



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	E	N		Hand Specimen	Thin Section	Polished Section	Chemical Analysis	
DDH No. MJ-8	6.05	1694.198	Sandy shale					
	11.60	"	Siltstone					o
	68.00	"	Sandstone					o
	88.60	"	Quartz porphyry					
	101.00	"	Magnetite mineralized rock					o
	112.90	"	Quartz porphyry					
	126.50	"	Sandstone					o
	126.85	"	Granite					
	133.30	"	porphyrite(?)					o
	139.70	"	Quartz porphyry					o
	142.00	"	Quartz porphyry					
	147.80	"	Chlorite schist					o
DDH No. MJ-9	39	1693.511	Limonite stain in siltstone					
	40	"	Pyrite dissemination in siltstone					o
	1	"	Pyrite-limonite-manganese oxide					o
	2	"	Limonite stain in argillized rock					o
	3	"	do					o
	4	"	Massive pyrite and argillized rock					o
	5	"	Massive pyrite					o
								36.20 - 37.40
								54.70 - 54.80
								82.30 - 82.90
								88.60 - 88.85
								88.85 - 90.10
								90.10 - 91.10
								91.10 - 92.00





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	E	N		Hand Specimen	Thin Section	Polished Section	Chemical Analysis	
DDH No. MJ-9	691.075	1693.511	Massive pyrite				o	92.00 - 92.50
6	"	"	do				o	92.50 - 93.00
7	"	"	do				o	93.00 - 93.50
8	"	"	do				o	93.50 - 94.10
9	"	"	do				o	94.10 - 95.10
10	"	"	do				o	95.10 - 96.40
11	"	"	do				o	96.40 - 97.70
12	"	"	do				o	97.70 - 98.10
13	"	"	Pyrite dissemination in argillized rock				o	98.10 - 98.30
14	"	"	Pyrite dissemination in chloritized rock				o	98.30 - 98.60
15	"	"	Pyrite dissemination in epidote rock				o	98.60 - 98.85
16	"	"	Pyrite dissemination in silicified rock				o	98.85 - 98.95
17	"	"	Large idiomorphic pyrite in chloritized rock				o	98.95 - 99.30
18	"	"	Pyrite dissemination in epidote rock				o	99.30 - 99.90
19	"	"	Pyrite dissemination in silicified rock				o	99.90 - 100.80
20	"	"	Pyrite dissemination in epidote rock				o	100.80 - 101.20
21	"	"	Massive pyrite				o	101.20 - 102.50
22	"	"	Pyrite dissemination in epidote rock				o	102.50 - 103.50
23	"	"	Limonite stain in argillized rock				o	103.50 - 104.60
24	"	"	Massive pyrite and argillized rock				o	104.60 - 105.00
25	"	"	Large idiomorphic pyrite in argillized rock				o	



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	E	N		Hand Specimen	Thin Section	Polished Section	Chemical Analysis	
DDH No. MJ-9 26	691.075	1693.511	Pyrite-specularite in quartzose rock				o	105.00 - 105.40
27	"	"	do				o	105.40 - 105.90
28	"	"	Pyrite dissemination in chlorite-epidote rock				o	105.90 - 106.60
29	"	"	do				o	106.60 - 107.00
30	"	"	do				o	110.85 - 111.30
31	"	"	do				o	122.90 - 123.50
32	"	"	Limonite stain in chlorite quartz schist				o	128.20 - 129.50
33	"	"	Pyrite vein and aggregate in epidote rock				o	138.40 - 138.65
34	"	"	do				o	138.65 - 139.20
35	"	"	do				o	139.20 - 140.00
38	"	"	Pyrite dissemination in chlorite-epidote rock				o	141.70 - 142.00
36	"	"	Pyrite dissemination in silicified rock				o	144.80 - 146.20
37	"	"	do				o	146.20 - 146.60
26.70	"	"	Quartz porphyry					
56.50	"	"	Siltstone					
75.00	"	"	Altered rock (Pyrite)			o		
77.40	"	"	Siltstone					
82.50	"	"	Massive limonite with chalcocite(djurleite?) interstitial to relic pyrite.			o		
92.60	"	"	Pyrite-sphalerite ore in chlorite(amphibole) skarn			o		
98.80	"	"	Porphyrite			o		
104.75	"	"	Garnet rock (Skarn)			o		

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	E	N		Hand Specimen	Thin Section	Polished Section	Chemical Analysis	
DDH No. MJ-9	691.075	1693.511	Quartz rock (Vein)					
106.00	"	"	Epidote rock	o				o
138.90	"	"	Garnet-epidote-actinolite rock	o				o
143.50	"	"	Chlorite quartz schist					o
DDH No. MJ-10	690.135	1694.175	Argillized rock				o	6.90 - 7.90
2	"	"	Epidotized rock				o	10.40 - 10.90
3	"	"	do				o	10.90 - 11.90
4	"	"	Massive hematite				o	45.70 - 46.90
5	"	"	do				o	46.90 - 49.90
6	"	"	Massive pyrite				o	53.60 - 54.50
7	"	"	do				o	54.50 - 55.60
8	"	"	do				o	55.60 - 56.10
9	"	"	do				o	56.10 - 57.10
10	"	"	do				o	57.10 - 58.10
11	"	"	Pyrite veinlets in argillized rock				o	58.10 - 58.90
12	"	"	Pyrite dissemination in argillized rock				o	58.90 - 59.90
13	"	"	do				o	59.90 - 60.90
14	"	"	Pyrite-hematite dissemination with magnetite stringer in argillized rock				o	61.90 - 63.00
15	"	"	do				o	63.00 - 63.50



Appendix 1-2 List of Samples Tested (Drill Core)

Sample No.	Location (Coordinate)		Rock Type and/or Occurrence of Metallic Minerals	Items Tested				Remarks
	E	N		Hand Specimen	Thin Section	Polished Section	Chemical Analysis	
DDH No. NJ-10 16	690.135	1694.175	Pyrite dissemination in argillized rock					
17	"	"	do				o	63.50 - 63.90
18	"	"	do				o	63.90 - 64.10
19	"	"	do				o	71.10 - 71.70
20	"	"	do				o	78.70 - 78.80
21	"	"	do				o	79.90 - 80.30
22	"	"	Pyrite dissemination in silicified rock				o	98.70 - 100.20
23	"	"	do				o	100.20 - 100.70
24	"	"	do				o	100.70 - 101.40
7.10	"	"	Siltstone					108.20 - 108.50
55.10	"	"	Massive pyrite					
56.60	"	"	Quartzose rock (Pyrite)				o	
72.70	"	"	Quartz porphyry					
81.20	"	"	Quartz porphyry				o	
86.80	"	"						
118.00	"	"	Altered quartz porphyry					
126.50	"	"	Quartz-epidote rock				o	
141.90	"	"	Quartz porphyry					
149.70	"	"	Altered quartz porphyry				o	





Appendix 2-1 Microscopic Observation - Thin Section (1)

Area	Sample No.	Location (Coordinate)	Group	Rock Type	Macroscopic Features	Microscopic Observation	Remarks
Llano del Coyote	J 10	N1694.60 E 689.85	Intrusive rock	Altered quartz porphyry	White, compact rock. Macroscopically phenocrysts of quartz and plagioclase are observed.	Phenocrysts are of quartz, plagioclase and altered mafic mineral. The groundmass is felsic and rather holocrystalline. It is composed of sericite and quartz.	X-ray Diffractometry
"	J 90	N1692.63 E 691.19	Intrusive rock	Altered biotite granodiorite	Grey, medium-grained granitic rock	Principal minerals are quartz, plagioclase, potassium feldspar, and biotite. Small amounts of sphene occur as accessory. Plagioclase is intensely altered into sericite. Biotite is altered into chlorite and epidote. Veinlets of epidote and carbonate mineral are present.	X-ray Diffractometry
"	J 94	N1692.94 E 691.28	Intrusive rock	Altered hornblende-biotite granodiorite	Grey, medium-grained granitic rock	Principal minerals are intensely sericitized plagioclase, potassium feldspar, quartz, biotite and hornblende. Small amounts of sphene and opaque minerals occur as accessory. Unidentified primary mafic minerals are generally altered into epidote.	X-ray Diffractometry
"	K 9	N1693.71 E 689.89	Tactic F.	Medium-grained sandstone	Reddish grey, compact rock	Subrounded grains of quartz, 0.7mm in size is scattered in the matrix composed of fine-grained quartz, sericite and limonitic materials.	X-ray Diffractometry
"	K 13	N1693.82 E 689.95	Intrusive rock	Altered hornblende micro-diorite	Greyish white, fine-grained granitic rock	Principal minerals are plagioclase and hornblende. Small amounts of sphene and epidote occur as accessory. The rock is intergranular in texture.	X-ray Diffractometry
"	K 63	N1694.94 E 687.58	Intrusive rock	Altered hornblende-biotite granodiorite	Grey, fine-grained, granitic rock	Principal minerals are quartz, plagioclase, potassium feldspar, altered biotite and altered hornblende. Compact xenolith is present.	X-ray Diffractometry
"	K 136	N1692.79 E 692.03	Tactic F.	Epidote-quartz-actinolite rock	Greenish grey, siliceous rock	Principal minerals are epidote and quartz. Accessories are small amounts of small needle-shaped actinolite.	X-ray Diffractometry



Appendix 2-1 Microscopic Observation - Thin Section (2)

Area	Sample No.	Location (Coordinate)	Group	Rock Type	Macroscopic Features	Macroscopic Observation	Remarks
Llano del Coyote	K 149	N1695.12 E 687.91	Intrusive rock	Altered quartz porphyry	White, siliceous rock, including breccias	Phenocrysts are of quartz. Glass in the ground-mass is devitrified and altered into quartzose matter, accompanied by biotite and plagioclase. Veinlets of quartz are also observed.	X-ray Diffractometry
"	K 166	N1695.32 E 687.62	Chico F.	Epidote-quartz rock	Greenish grey, siliceous rock	Principal minerals are epidote and quartz. Accessory is sericite accompanied with quartz.	Chemical analysis Fe 8.02%
"	K 190	N1693.47 E 691.39	Tactic F.	Epidote-quartz rock	Pale greyish green rock, including malachite vein	Principal minerals are idiomorphic epidote and quartz. Veinlets filled by colloidal malachite are observed.	Chemical analysis Ag 1%, Cu 0.01%, Pb Tr, Zn 0.09%, S 0.09%, Mn 0.34%
"	S 28C	N1694.68 E 688.95	Tactic F.	Garnet bearing epidote-actinolite rock (Skarn)	Pale greenish white rock with limonite stain	Epidote and actinolite are crowded. Among them, sericite and chlorite are observed. Reddish brown poikilitic garnet is scattered.	X-ray Diffractometry
"	S 46	N1694.40 E 691.00	Choco F.	Sericite chlorite quartz schist (Rhyolite tuff origin?)	Pale greenish white, showing cleavage. Felsic crystals are scattered. Matrix is lustrous.	Vitroclastic structure is seen. Phenocrystic chips of quartz and plagioclase are scattered in the schistose matrix. The matrix is altered and composed of fibrous sericite, quartz, biotite and opaque minerals.	
"	S 61	N1693.30 E 690.51		Skarn	Yellowish green, holocrystalline rock	Principal minerals are quartz, hornblende and sphene, accompanied by epidote, zoisite, chlorite, apatite, tremolite and siderite?. Vein of epidote is also observed.	
"	S 69			Altered muscovite-biotite granodiorite or quartz diorite.	Grey, granitic rock	Principal minerals are quartz, plagioclase, biotite and muscovite. Plagioclase is intensely altered into sericite.	
"	S 78	N1693.02 E 690.91	Intrusive	Quartz porphyry	Grey, compact siliceous rock with limonite stains	Grain mineral is quartz and plagioclase. Matrix is composed of quartz and sericite. Granular garnet is scattered.	X-ray Diffractometry



Appendix-2-1 Microscopic Observation (Drill Core)

Sample No.	Location	Formation or Group	Rock Name	Macroscopic Features	Microscopic Observation	Remarks
MJ-1 109.4			Altered (sericitized) Quartz Porphyry	The rock is grayish white in color, and has porphyritic structure. Small pyrite grains of metallic luster are distributed.	Under the microscope, the rock is porphyritic, and the phenocryst composed of quartz, sericitized plagioclase and opaque mineral. Groundmass is made up of quartz, sericite and microlites of colored and opaque mineral.  (Phenocryst) Quartz --- Phenocrystic quartz smaller than 2mm are partly corroded. Plagioclase --- Though the crystals are wholly sericitized, outline of the original crystal are still reserved and maximum size is measured to 2mm. Opaque mineral --- Smaller than 1mm crystals are scattered (Groundmass) Quartz --- Abundant quartz grains smaller than 0.05mm occupied the groundmass. Sericite --- Feather like sericite crystals show the parallel arrangement.	Vein Quartz-opaque mineral vein cut the quartz porphyry.
MJ-1 114.4			Altered (sericitized) chloritized Hornblende Quartz Porphyry ~ Rhyolite	The rock is grayish white in color and has porphyritic structure. Small pyrite grains of metallic luster are present.	Under the microscope, the rock is porphyritic, and the phenocryst composed of quartz, plagioclase, altered hornblende, and opaque mineral; and groundmass is made up of fine quartz grains and sericite.  (Phenocryst) Quartz --- The crystals are magmatically corroded and have many embayment. Maximum size measured to 2.5mm. Plagioclase --- Maximum size is measured to 2.7mm showing carlsbad and albite twinnings. Some parts are altered to sericite. Altered Hornblende --- The most crystals are altered into chlorite but reserves their original crystal outline and enclose opaque mineral. Opaque mineral --- Maximum size of phenocrystic opaque mineral is 0.5mm. <i>Continued to next page.</i>	Vein Narrow-quartz veins cut the quartz porphyry.



Appendix - Microscopic Observation

Sample No.	Location	Formation or Group	Rock Name	Macroscopic Features	Microscopic Observation	Remarks
MJ-1 124.0			Altered (sericitized, chloritized, epidotized) Quartz Porphyry	The rock is gray in color and has porphyritic structure. Small grains of pyrite are observed.	<p>(Groundmass)                      Quartz --- Abundant quartz grains smaller than 0.02mm size occupied the groundmass.                      Sericite --- Feather like, high birefringence sericite crystals are distributed in the groundmass.</p> <p>Under the microscope, the rock is porphyritic and the phenocrysts of plagioclase quartz, mafic mineral and opaque mineral are embedded in the fine quartz, sericite, chlorite, epidote groundmass.                      (Phenocryst)                      Plagioclase --- The crystals are idiomorphic and the maximum size is measured 2mm. Carlsbad and albite twinning are observed. Some parts are altered to sericite, chlorite and epidote.                      Quartz --- Small amount of corroded quartz are scattered in the groundmass.                      Mafic mineral --- Though the whole mineral is altered into chlorite, epidote and opaque mineral, outline of the original crystal is reserved, and maximum size is measured 1mm.                      Opaque mineral ---</p> <p>(Groundmass)                      Quartz --- Micrograins of quartz are intermingled in the sericite crystals of parallel arrangement.                      Sericite --- Associating with chlorite, fine feather like sericite crystals are arranged in parallel.                      Chlorite                      Epidote                      Opaque mineral --- These minerals are scattered in the groundmass.</p>	Vein narrow- quartz veins cut the quartz porphyry.





Appendix - Microscopic Observation

Sample No.	Location	Formation or Group	Rock Name	Macroscopic Features	Microscopic Observation	Remarks
MJ-1 127.0			Altered (Chloritized, epidotized, sericitized) Quartz Porphyry	The rock is gray in color and penetrated by white quartz vein.	Under the microscope, the rock is porphyritic, and the phenocryst composed of quartz, plagioclase, altered mafic and opaque mineral. Groundmass is made up of large amount of quartz, chlorite, epidote, sericite and opaque mineral.  (Phenocryst) Quartz --- Magnetically corroded quartz are embedded in the groundmass of fine grained quartz. Maximum size is measured 2mm. Plagioclase --- Plagioclase of albite twin is also present as phenocryst. Some crystals are corroded magnetically. Altered mafic mineral --- All of the phenocrystic mafic mineral are altered into aggregate of chlorite, epidote and opaque mineral. Opaque mineral --- Maximum size of the opaque mineral is measured to 0.8mm and enclose apatite.  (Groundmass) Quartz --- Abundant fine to medium grained quartz crystals are present in the groundmass. Chlorite Epidote --- These minerals are scattered in the groundmass. Sericite	Vein narrow- quartz Veins cut the quartz porphyry.
MJ-1 138.7			Altered (sericitized chloritized epidotized) Quartz porphyry	The rock is dark gray in color. Small grains of pyrite are distributed.	Under the microscope, the rock is porphyritic and the phenocryst composed of quartz and opaque mineral. Groundmass is made up of quartz, sericite chlorite, epidote and opaque mineral.  (Phenocryst) Quartz --- Size of quartz is measured smaller than 1.2mm. Opaque mineral --- Size of opaque mineral is measured smaller than 1mm and enclose apatite crystals.  (Groundmass) Quartz --- Grain size of aggregated groundmass quartz is measured smaller than 0.2mm. Continued to next page.	



Appendix- Microscopic Observation

Sample No.	Location	Formation or Group	Rock Name	Macroscopic Features	Microscopic Observation	Remarks
MJ-1 148.5			Altered (sericitized, chloritized, epidotized) Quartz Porphyry	Though the rock is compact and gray in color, porphyritic structure is observed.	<p>Sericite --- Flakes or fine feather like high birefringence sericite crystals are arranged in parallel.</p> <p>Chlorite --- Radiated crystals of pale green color and low birefringence chlorite are also aggregated in the groundmass.</p> <p>Epidote --- Small crystals of brown color and high birefringence epidote are also aggregated in the groundmass.</p> <p>Opaque mineral --- Associating always with chlorite and epidote, opaque mineral present in the groundmass</p> <p>Under the microscope the rock is porphyritic and the phenocryst consist of quartz, plagioclase altered mafic and opaque mineral. Groundmass composed of quartz, sericite, chlorite, epidote and pyrite.</p> <p>(Phenocryst) Quartz --- Maximum size of phenocrystic quartz is measured to 4mm. Quartz crystals are magmatically corroded showing embayment.</p> <p>Plagioclase --- Maximum size is measured to 2.5mm and show twinnings of carlsbad and albite law. Some crystals are completely replaced by sericite crystals.</p> <p>Altered Mafic Mineral --- Most of the phenocrystic mafic minerals are altered into aggregate of chlorite, epidote and opaque minerals.</p> <p>Pyrite --- Maximum size is measured to 0.5mm.</p> <p>(Groundmass) Quartz --- Main parts of the groundmass occupied by fine to medium grain quartz.</p> <p>Sericite --- Feathery, high birefringence sericite scattered in the groundmass.</p>	Vein Quartz-K-feldspar-chlorite veins cut the quartz porphyry.

Continued to next page.



Appendix - Microscopic Observation

Sample No.	Location	Formation or Group	Rock Name	Macroscopic Features	Microscopic Observation	Remarks
MJ-1 161.1			Strongly altered (sericitized, epidotized, chloritized, pyritized) Quartz Porphyry	The rock is compact and gray in color. Pyrite crystals are observed.	<p>Chlorite --- Secondary chlorite and epidote are also scattered in the groundmass.</p> <p>Epidote --- Small grains of pyrite are also distributed in the groundmass.</p> <p>Pyrite --- Small grains of pyrite are also distributed in the groundmass.</p> <p>Under the microscope the rock is porphyritic and the phenocryst composed of quartz, sericitized feldspar, altered mafic mineral and ore. Groundmass is made up of quartz, sericite and epidote.</p> <p>(Phenocryst)</p> <p>Quartz --- The crystals are smaller than 1.2mm and have many embayment due to magmatic corrosion.</p> <p>Altered Plagioclase --- Though the crystals are wholly replaced by sericite aggregate, original outline of plagioclase are still well reserved.</p> <p>Altered mafic mineral --- Though the mineral is wholly replaced by chlorite, epidote and pyrite, original outline of mafic mineral is still reserved.</p> <p>Ore --- Maximum size measured to 0.8mm and enclose apatite crystals.</p> <p>(Groundmass)</p> <p>Quartz --- Fine to medium grained quartz are scattered in the groundmass</p> <p>Sericite --- Sericite, altered from groundmass plagioclase are scattered in the groundmass</p> <p>Epidote --- Epidote crystals, which are altered from mafic minerals are scattered in the groundmass</p>	



Appendix- Microscopic Observation

Sample No.	Location	Formation or Group	Rock Name	Macroscopic Features	Microscopic Observation	Remarks
MJ-1 162.8			Strongly altered (sericitized epidotized chloritized) Quartz Diorite Porphyry	The rock is dark gray in color. Small grains of pyrite ore are distributed in the rock.	Under the microscope, abundant altered mafic mineral, plagioclase and ore are embedded in the quartzose and sericitized groundmass.  (Phenocryst) Altered Plagioclase ---- Though the crystals are wholly altered into sericite, original outline of plagioclase is reserved and maximum size measured to 2.2mm.  Altered mafic mineral ---- Though the crystals are wholly replaced by epidote, chlorite and ore, original outline of mafic mineral is reserved and maximum size measured to 2mm.  Pyrite ---- Maximum size measured to 0.5mm and enclose apatite crystals.  Apatite ---- Many apatite smaller than 0.5mm prismatic crystals are distributed in the groundmass.  (Groundmass) Quartz ---- Primary fine quartz and secondary quartz of patch form are scattered in the groundmass Sericite ---- Fine feather like sericite altered from groundmass plagioclase occupied the groundmass Altered mafic mineral ---- Mafic minerals in the groundmass are altered into epidote showing high birefringence. Pyrite ---- Small grains of opaque mineral are distributed in the groundmass	
MJ-1 223.6			Epidote Chlorite Sericite Quartz Schist	The rock is dark gray in color, and compact.	Under the microscope, angular quartz grains of medium, size, subangular fragment of opaque mineral, and epidote grains are cemented by sericite, chlorite and fine quartz. (Sand Grain) Quartz grain ---- Angular grains smaller than 0.3mm are nearly arranged in stratiform and cemented by sericite, chlorite and fine quartz.	Vein quartz vein, chlorite-epidote-ore vein cut the epidote-

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Appendix- Microscopic Observation

Sample No.	Location	Formation or Group	Rock Name	Macroscopic Features	Microscopic Observation	Remarks
MJ-1 232.7			Quartz Sericitic Schist	The rock is compact and gray in color. Pyrite crystals are distributed in the rock.	Under the microscope, rock fragments of quartzite, mineral fragments of quartz and plagioclase are cemented by fine quartz and sericite.  (Rock Fragments) Quartzite ---- Rounded quartzite grains smaller than 3mm, have a mosaic structure of quartz crystals. Quartz Porphyry --- Grains are porphyritic, and the corroded quartz and plagioclase are cemented by fine quartz and sericite.  (Mineral Fragments) Quartz --- Subrounded and corroded quartz grains smaller than 0.5mm are common. Plagioclase --- Subrounded plagioclase grains smaller than 0.5mm show albite twinning  (Cementing material) Quartz --- Large amounts of fine quartz grains together with sericite, cement the interstices of rock and mineral fragments. Sericite --- Associating with fine quartz, abundant sericite are scattered in the matrix.	Vein Quartz vein and Epidote- chlorite vein cut the quartz sericite schist.
MJ-1 235.1			Epidote Chlorite Sericite Quartz Schist	The rock is compact and gray in color. Pyrite crystals are distributed in the rock.	Under the microscope, rock and mineral fragments are cemented by fine quartz, sericite, chlorite and opaque minerals. Rock fragments are quartz porphyry and mineral fragments are quartz, plagioclase and altered mafic mineral.  (Rock Fragments) Quartz porphyry --- Abundant rock fragments of quartz porphyry are scattered in the matrix. Fragments are porphyritic and phenocrystic quartz and plagioclase are cemented by fine quartz and chlorite.	

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Appendix- Microscopic Observation

Sample No.	Location	Formation or Group	Rock Name	Macroscopic Features	Microscopic Observation	Remarks
MJ-1 246.0			Altered (sericitized, epidotized, zoisitized) Granophyre	The rock is compact and dark gray in color.	<p>(Mineral Fragments)            Quartz --- Some crystals smaller than 3mm are magmatically corroded.            Plagioclase --- Abundant fragments smaller than 2mm show carlsbad and albite twinnings.            Altered mafic mineral --- Small amount of mafic mineral altered into aggregate of chlorite, epidote and opaque minerals.</p> <p>(Cementing Materials)            Quartz --- Fine quartz crystals are arranged in one direction showing schistose structure.            Sericite --- Some fine sericite crystals are aggregated in lenticular to vein form.            Chlorite --- Both minerals are scattered in the matrix.            Opaque mineral</p> <p>Under the microscope, the rock is porphyritic, and the phenocryst composed of quartz, altered plagioclase and altered mafic mineral. Groundmass is made up of graphic intergrowth of quartz and plagioclase, and some altered mafic mineral.</p> <p>(Phenocryst)            Quartz --- Magmatically corroded crystals of 0.7mm are present as phenocryst.            Plagioclase --- Smaller than 3mm phenocrystic plagioclase are present, most part are altered into sericite, partly into epidote and zoisite.            Mafic mineral --- Small amount of phenocrystic mafic mineral altered into aggregate of chlorite, epidote and opaque mineral.</p> <p>(Groundmass)            Quartz --- Micrographic intergrowth of quartz and plagioclase are observed. Some Plagioclase altered into sericite.</p>	

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Appendix- Microscopic Observation

Sample No.	Location	Formation or Group	Rock Name	Macroscopic Features	Microscopic Observation	Remarks
MJ-2 36.7			Quartz Muscovite Schist	The rock is gray in color, and show schistose structure. Pyrite crystals are scattered in the rock.	Under the microscope the rock is halocrystalline consisting of quartz muscovite, mafic mineral and pyrite. In this rock, fine crystalline part and medium crystalline part are alternately arranged showing schistose structure. Fine crystalline part Fine crystalline part is made up of fine quartz and mafic minerals. Medium crystalline part Medium grained part composed of quartz, muscovite and pyrite	Vein The rock is penetrated by chlorite vein.
MJ-2 40.1			Altered (sericitized) Quartz Porphyry	The rock is reddish gray in color. Porphyritic structure is observed.	Under the microscope, the rock is porphyritic, and the phenocryst consist of quartz, plagioclase and mafic mineral. Groundmass is made up of quartz, sericite mafic mineral and limonite. (Phenocryst) Quartz ---- Rounded and partly corroded quartz crystals smaller than 2.5mm are scattered in the groundmass. Plagioclase --- Phenocrystic plagioclase crystals smaller than 1mm show albite twinning. Mafic mineral ---- Phenocrystic mafic mineral smaller than 0.5mm are all altered into limonite or goethite. (Groundmass) Quartz ---- Small irregular form of quartz grains occupied main parts of the groundmass. Sericite --- Fine, high birefringence sericite are aggregated in the lenticular form. Mafic mineral --- Fine microlites of mafic mineral are scattered in the groundmass. Limonite(Goethite) --- Microcrystals of limonite (goethite) are also distributed in the groundmass.	





Appendix- Microscopic Observation

Sample No.	Location	Formation or Group	Rock Name	Macroscopic Features	Microscopic Observation	Remarks
MJ-2 94.8			Altered (sericitized, epidotized, zoisitized, pyritized) Quartz Porphyry	The rock is gray in color, and phenocrystic dark spots are arranged in parallel. Pyrite crystal with metallic luster are scattered.	Under the microscope, the rock is porphyritic and the phenocryst composed of quartz, plagioclase, altered mafic mineral and opaque mineral. Groundmass is made up of micrographic structure of quartz and feldspar, sericite, epidote and opaque mineral.  (Phenocryst) Quartz --- Corroded quartz crystals smaller than 1.5mm are scattered in the groundmass. Plagioclase --- Plagioclase crystals smaller than 2mm are altered mostly into sericite aggregate, partly into epidote and zoisite, but some crystal show albite twinning. Mafic mineral --- Mafic crystals are altered into aggregate of epidote and zoisite. Opaque mineral ---  (Groundmass) Quartz --- Micrographic structure of quartz and feldspar are observed. Plagioclase --- Lenticular aggregate of fine sericite are observed in the groundmass. Epidote --- Fine epidote crystals are distributed in the groundmass. Opaque mineral --- Small opaque crystals are scattered.	Vein Epidote vein cut the quartz porphyry.
MJ-2 117.0			Altered (sericitized, epidotized) Hornblende Quartz Porphyry Rhyolite	The rock is gray in color. Porphyritic structure is seen.	Under the microscope, the rock is porphyritic and the phenocryst composed of quartz, plagioclase, hornblende (altered) and opaque mineral. Groundmass is made up of quartz, sericite and opaque mineral.  (Phenocryst) Quartz --- Phenocrystic bipyramidal quartz are scattered in the groundmass. The crystals show magmatic corrosion. <i>Continued to next page.</i>	



Appendix- Microscopic Observation

Sample No.	Location	Formation or Group	Rock Name	Macroscopic Features	Microscopic Observation	Remarks
MJ-2 277.6			Chlorite Sericitic Quartz Schist	The rock is compact and gray in color.	<p>Plagioclase --- Phenocrystic plagioclase smaller than 1mm are mostly sericitized, but some crystals show albite twin.</p> <p>Hornblende --- Phenocrystic hornblendes smaller than 1.5mm are all altered into epidote of high birefringence.</p> <p>Opaque mineral ---- Small amount of opaque mineral are sporadically scattered.</p> <p>(Groundmass)</p> <p>Quartz --- Fine quartz occupied the main parts of the groundmass.</p> <p>Sericite --- Together with the groundmass quartz, fine high birefringence sericite are scattered in the groundmass.</p> <p>Opaque mineral --- Associated with epidote, opaque mineral is distributed.</p> <p>Under the microscope, mineral grains of quartz and plagioclase are cemented by fine quartz and sericitic crystals showing schistose structure.</p> <p>(Sand Grains)</p> <p>Quartz --- Angular quartz grains smaller than 1mm are sporadically distributed in the stratified matrix. Some crystals are magmatically corroded.</p> <p>Plagioclase --- Angular plagioclase grains smaller than 0.8mm are scattered in the matrix and show albite twinning.</p> <p>Mafic mineral --- Small amount of altered mafic mineral grains are scattered in the matrix.</p> <p>Opaque mineral ---- Small amount of opaque mineral grains are also scattered in the matrix.</p> <p>((Cementing Material(Matrix) ) Quartz --- Fine quartz crystals are ranged in parallel.</p>	Vein quartz-carbonate vein cut the chlorite, sericitic, quartz schist.

Continued to next page.



Appendix - Microscopic Observation

Sample No.	Location	Formation or Group	Rock Name	Macroscopic Features	Microscopic Observation	Remarks
MJ-2 282.4			Sericite Quartz Schist	The rock is compact and gray in color.	<p>Sericite --- Fine sericite crystals take parallel arrangement with each other and matrix quartz showing schistosity</p> <p>Chlorite --- Pale green color chlorite rarely shows linear arrangement.</p> <p>Carbonate --- High birefringence carbonate are also sporadically distributed.</p> <p>Under the microscope, rock and mineral fragments are cemented by fine quartz, sericite and opaque crystals showing schistose structure. Rock fragments are sandstone and the mineral fragments are quartz, plagioclase and opaque mineral.</p> <p>(Rock Fragments) Sandstone grain --- Leuticular sandstone fragment smaller than 2.5mm composed of quartz, sericite, chlorite and opaque mineral.</p> <p>(Mineral Fragments) Quartz --- Angular to subangular quartz, grains smaller than 1mm are scattered in the matrix. Some grains show magmatic corrosion.</p> <p>Plagioclase --- Subangular plagioclase smaller than 0.7mm are sporadically scattered in the matrix.</p> <p>Opaque mineral --- Small amount of opaque minerals are scattered in the matrix.</p> <p>(Cementing Material) Quartz --- Fine quartz crystals take parallel arrangement in certain direction.</p> <p>Sericite --- Fine sericite crystals ranged in parallel with each other and matrix quartz showing schistose structure.</p> <p>Opaque mineral --- Small grains are scattered in the matrix.</p>	



Appendix - Microscopic Observation

Sample No.	Location	Formation or Group	Rock Name	Macroscopic Features	Microscopic Observation	Remarks
MJ-3 85.8			Epidote Zoisite Sericitic Quartz Schist	The rock is gray in color and has schistose structure.	Under the microscope, colorless minerals and mafic minerals are alternately arranged showing schistose structure. Colorless minerals are quartz and sericite and mafic minerals are made up of zoisite, epidote and opaque mineral.  (Colorless Minerals) Quartz --- Subangular quartz of smaller than 0.1mm are cemented by sericite. Serucite --- Fine, high index and birefringence sericite crystals are ranged in parallel together with fine quartz.  (Mafic Minerals) Zoisite --- Zoisite crystals smaller than 0.15mm are ranged in certain direction together with opaque mineral and epidote. Epidote --- Associating with zoisite crystals, small amount of epidote crystals are distributed. Opaque mineral --- Associating with zoisite, opaque minerals smaller than 0.7mm are arranged in ore direction.	
MJ-3 100.7			Zoisite Chlorite Epidote Sericitic Quartz Schist	The rock is gray in color and has schistose structure.	Under the microscope, colorless minerals and mafic minerals are alternately arranged showing schistose structure. Colorless minerals are quartz and sericite, mafic minerals are made up of epidote, chlorite, zoisite and opaque mineral.  (Colorless Minerals) Quartz --- Subangular grains smaller than 0.15mm are cemented by fine sericite. Sericitic --- Fine, high index and birefringence sericite crystals are arranged in certain direction.  (Mafic Minerals) Epidote --- High birefringence epidote crystals smaller than 0.1mm are scattered in the rock.	

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Appendix - Microscopic Observation

Sample No.	Location	Formation or Group	Rock Name	Macroscopic Features	Microscopic Observation	Remarks
<p>MI-3 125.0</p>			<p>Epidote Chlorite Sericite Quartz Schist</p>	<p>The rock is dark gray in color and has schistose structure. Small pyrite crystals are scattered in the rock.</p>	<p>Chlorite --- Pale green color and low birefringence chlorite crystals are scattered in the rock. Zoisite --- Together with epidote mineral small amount of zoisite is also observed. Opaque mineral --- Associated with epidote, opaque minerals smaller than 0.2mm are scattered.</p> <p>Under the microscope, colorless minerals and mafic minerals are alternately arranged in parallel and show schistose structure. Colorless minerals consist of quartz and sericite, mafic minerals are chlorite, epidote and opaque mineral. (Colorless Minerals) Quartz --- Associated with sericite crystals, quartz crystals smaller than 0.2mm are arranged in parallel. Sericite --- Fine, high index and birefringence sericite crystals are arranged in parallel showing schistose structure.</p> <p>(Mafic Minerals) Chlorite --- Filling up the interstices of quartz crystals and opaque mineral, pale green and low birefringence chlorite crystals are developed. Epidote --- Associated with epidote and intermingled with quartz, high birefringence epidote are scattered. Opaque mineral --- Concordant to schistosity, most of the opaque minerals are distributed together with chlorite. But some crystals are arranged obliquely to the general schistosity of the rock.</p>	



Appendix- Microscopic Observation

Sample No.	Location	Formation or Group	Rock Name	Macroscopic Features	Microscopic Observation	Remarks
MJ-3 164.3			Altered (sericitized epidotized chloritized) Quartz Porphyry ~ Rhyolite	The rock is gray in color, and show porphyritic structure.	Under the microscope, the rock is porphyritic, and the phenocryst composed of quartz, plagioclase, altered mafic mineral and opaque mineral. Groundmass is made up of quartz epidote and sericite.  (Phenocryst) Quartz --- Partly corroded quartz crystals smaller than 2mm are present as phenocryst. Plagioclase --- Phenocrystic plagioclase smaller than 3mm are present. Many crystals are altered and wholly replaced by fine sericite. Some crystal remains fresh and show albite twinning. Altered mafic mineral --- Mafic mineral smaller than 1mm are all altered into chlorite, epidote and opaque mineral. Opaque mineral --- Opaque mineral smaller than 0.4mm are present as phenocryst and enclose minor apatite crystals.  (Groundmass) Quartz --- Main part of groundmass is occupied by fine quartz of irregular shape. Epidote --- Minor epidote grains of high birefringence are scattered in the quartzose groundmass. Sericite --- Fine sericite crystals are scattered in the groundmass.	
MJ-3 182.7			Altered (sericitized chloritized epidotized) Quartz Porphyry	The rock is grayish white in color and show porphyritic structure	Under the microscope the rock is porphyritic, and the phenocryst composed of quartz, plagioclase and opaque mineral. Groundmass is made up of quartz, plagioclase sericite, chlorite, epidote and opaque mineral.  (Phenocryst) Quartz --- Partly corroded phenocrystic quartz smaller than 2mm are embedded in the groundmass of fine quartz, plagioclase and sericite. <i>Continued to next page.</i>	



Appendix- Microscopic Observation

Sample No.	Location	Formation or Group	Rock Name	Macroscopic Features	Microscopic Observation	Remarks
MJ-3 188.5			Altered (sericitized, chloritized, epidotized) Rhyolite	The rock is grayish green in color and show porphy- ritic structure	<p>Plagioclase --- Idiomorphic, twinned crystals are present as phenocryst. Some crystals partly altered into sericite.</p> <p>Opaque mineral --- Small amount of opaque minerals are scattered in the groundmass.</p> <p>(Groundmass)</p> <p>Quartz --- Abundant irregular shape quartz crystals occupied the main part of groundmass.</p> <p>Sericite ---- Fine sericite crystals are scattered in the groundmass.</p> <p>Chlorite --- Pale green color and low birefringence chlorite crystals are distributed in the groundmass.</p> <p>Epidote ---- High birefringence epidote crystals are scattered in the groundmass.</p> <p>Opaque mineral --- Small grain of opaque minerals are scattered in the groundmass.</p> <p>Under the microscope, the rock is porphyritic, and phenocryst composed of quartz, plagioclase and altered mafic mineral. Groundmass is made up of felsitic structure of quartz, sericite, chlorite and epidote.</p> <p>(Phenocryst)</p> <p>Quartz ---- Partly corroded phenocrystic quartz smaller than 3mm are embedded in the groundmass of felsitic structure of quartz and sericite.</p> <p>Plagioclase --- Idiomorphic, twinned crystals are present as phenocryst. The crystals are mostly altered into zoisite, epidote and sericite.</p> <p>Mafic mineral --- Small amount of mafic mineral altered into chlorite and epidote.</p> <p>(Groundmass)</p> <p>Quartz --- Abundant fine quartz grains of felsitic structure is developed in the groundmass. Continued to next page.</p>	Vein quartz- epidote- ore mineral vein cut the rhyolite



Appendix- Microscopic Observation

Sample No.	Location	Formation or Group	Rock Name	Macroscopic Features	Microscopic Observation	Remarks
MJ-3 195.4			Altered (sericitized chloritized epidotized Quartz) Porphyry	The rock is gray in color, and show porphyritic structure.	<p>Sericite --- Fine sericite crystals are scattered in the quartzose groundmass.</p> <p>Chlorite --- Chlorite of the pale green color is also distributed in the groundmass.</p> <p>Epidote --- High birefringence epidote crystals are also scattered in the groundmass.</p> <p>Under the microscope, the rock is porphyritic and the phenocryst composed of quartz, plagioclase, altered mafic mineral and opaque mineral. Groundmass is made up of irregular shape quartz feldspar, chlorite, epidote, sericite and opaque mineral.</p> <p>(Phenocryst)</p> <p>Quartz --- Partly corroded quartz crystals smaller than 5mm are scattered in the groundmass.</p> <p>Plagioclase --- Idiomorphic, smaller than 4mm twinned plagioclase crystals are present as phenocryst. Some parts are altered into needle sericite.</p> <p>Altered mafic mineral --- Mafic phenocrysts smaller than 1mm are all altered into aggregate of epidote, chlorite and opaque mineral.</p> <p>Opaque mineral --- Opaque mineral smaller than 0.3mm are scattered in the groundmass.</p> <p>(Groundmass)</p> <p>Quartz --- Abundant quartz crystals occupied main part of the groundmass.</p> <p>Feldspar --- Feldspar crystals larger than quartz sporadically scattered in the groundmass.</p> <p>Chlorite Epidote Sericite Opaque mineral</p> <p>--- Small grains of these minerals are scattered in the groundmass.</p>	





Appendix - Microscopic Observation

Sample No.	Location	Formation or Group	Rock Name	Macroscopic Features	Microscopic Observation	Remarks
MJ-3 272.3			Altered (sericitized epidotized chloritized) Rhyolite	The rock is gray in color, and show porphyritic structure	<p>Under the microscope, the rock is porphyritic and the phenocryst composed of quartz, altered plagioclase and altered mafic mineral. Groundmass is made up felsitic structure of quartz and sericite; epidote and chlorite are also scattered in the groundmass.</p> <p>(Phenocryst)            Quartz --- Partly corroded quartz crystals smaller than 3mm are scattered in the groundmass.            Altered Plagioclase --- All phenocrystic plagioclase smaller than 2mm are altered into sericite or epidote and zoisite crystals.            Altered mafic mineral --- All mafic mineral smaller than 2mm are altered into chlorite, epidote and opaque mineral.            Opaque mineral --- Opaque mineral smaller than 1mm are present as phenocryst.</p> <p>(Groundmass)            Quartz --- Spherulitic quartz of 0.2mm diameter occupied the whole groundmass enclosing poikilitically sericite and other groundmass minerals.            Sericite --- Fine sericite are enclosed in the groundmass quartz.            Epidote            Chlorite --- Small grains of these minerals are scattered            Opaque Mineral in the groundmass.</p>	



Appendix 2-1 Microscopic Observation - Thin Section (3)

Area	Sample No.	Location (Coordinate)	Group	Rock Type	Macroscopic Features	Microscopic Observation	Remarks
Llano del Coyote	Drill Core MJ-4 86.50	N1694.023 E 689.958	Chicol F.	Garnet bearing epidote-quartz rock	Brown and yellowish brown parts are blended at random.	Principal minerals are epidote and quartz. Pale brown chlorite is also observed. Opaque minerals are accompanied by garnet.	
"	Drill Core MJ-4 92.60	N1694.023 E 689.958	Chicol F.	Garnet bearing quartz-epidote rock	Yellow and green, massive rock with pyrite impregnation, and showing alteration blending.	Groundmass is composed of quartz, epidote, garnet and chlorite. The rock is suffered weak mineralization. Opaque mineral (Pyrite) accompanied by garnet is scattered.	
"	Drill Core MJ-4 140.50	N1694.023 E 689.958	Chicol F.	Massive pyrite with minor amounts of epidote skarn.	Dense aggregate of granular pyrite	Principal minerals are mostly of opaque minerals (pyrite) including epidote, and a small amount of chlorite.	
"	Drill Core MJ-5 56.30	N1693.927 E 690.113	Intrusive rock	Altered granite	Altered holocrystal- line rock. Green spots are scattered.	Principal minerals, of medium-grained, are quartz, perthitic potassium feldspar and altered biotite. Plagioclase is mostly altered into aggregates of sericite. Chlorite and epidote occur as secondary minerals in biotite. Opaque mineral is scattered and is accompanied by epidote.	
"	Drill Core MJ-5 75.80	N1693.927 E 690.113	Intrusive rock	Clastic granite	Sheared, pale green, medium-grained granitic rock.	Principal minerals are abundant quartz, feldspar and muscovite. Some parts of feldspar altered into sericite aggregate.	



Appendix 2-1 Microscopic Observation - Thin Section (4)

Area	Sample No.	Location (Coordinate)	Group	Rock Type	Macroscopic Features	Microscopic Observation	Remarks
Llano del Coyote	Drill Core MJ-5 93.80	N1693.927 E 690.113	Chicol F.	Sericite chlorite quartz schist	White pale grey banded rock impregnated by ore mass	Groundmass is composed of quartz and sericite which show arrangement in a direction. Veinlet of ore and quartz is observed.	
"	Drill Core MJ-5 119.30	N1693.927 E 690.113	Chicol F.	Skarn	Clastic part(structural ?) with massive pyrite and magnetite	Black opaque mineral is dominant. Clastic structure is shown. Quartz, feldspar and glass are seen. Groundmass is altered to epidote, chlorite and quartz.	
"	Drill Core MJ-5 119.43	N1693.927 E 690.113	Chicol F.	Epidote-sericite-quartz rock	Dark green, mineralized massive rock	Principal minerals are epidote, sericite, quartz and opaque mineral. Sericite is relatively coarse. Original rock is unknown.	
"	Drill Core MJ-5 120.40	N1693.927 E 690.113	Chicol F.	Garnet bearing epidote-quartz rock	Pale green, porous	Principal minerals are, as a matter of course, epidote, quartz and garnet. Garnet is granular in shape.	
"	Drill Core MJ-6 46.10	N1694.009 E 690.848	Intrusive rock	Altered dacite	Grey, siliceous rock with magnetite dissemination	Rock are altered to quartz and fine sericite. Opaque mineral is scattered	X-ray Diffractometry
"	Drill Core MJ-6 57.10	N1694.009 E 690.848	Intrusive rock	Altered dacite	White altered rock, showing fluidal structure. Altered phenocrysts are seen.	Structure is fluidal. Phenocrysts are of quartz, plagioclase and unidentified mafic mineral. The matrix is devitrified and altered into quartzose matter, including sericite. These secondary minerals run parallel to each other.	



Appendix 2-1 Microscopic Observation - Thin Section (5)

Area	Sample No.	Location (Coordinate)	Group	Rock Type	Macroscopic Features	Microscopic Observation	Remarks
Llano del Coyote	Drill Core MJ-6 98.45	N1694.009 E 690.848	Chicol F.	Conglomerate schist	Rock is stratified and coarse rock fragments are seen.	Quartz grain is fresh and fragmental. Feldspar is weakly altered to sericite-quartz. Matrix is strongly suffered to sericite and quartz.	
"	Drill Core MJ-6 119.50	N1694.009 E 690.848	Chicol F.	Sericite quartz schist	Pale green rock.	Quartz and plagioclase grains are observed and plagioclase is altered. Matrix is suffered sericite-quartz-epidote alteration.	
"	Drill Core MJ-7 36.20	N1693.890 E 690.260	Tactic F.	Altered sandstone	White, medium-grained sandstone, including felsic fragments	Subangular grains of quartz and altered feldspar are scattered, together with a small amount of biotite in the matrix composed of sericite and opaque mineral accompanied by biotite.	
"	Drill Core MJ-7 76.55	N1693.890 E 690.260	Tactic F.	Altered sandstone	Yellowish white, coarse-grained sandstone	Subangular grains of quartz, altered plagioclase and a small amount of muscovite flakes are scattered in the matrix composed of sericite.	
"	Drill Core MJ-7 126.30	N1693.890 E 690.260	Chicol F.	Chlorite-tremolite-epidote rock with opaque mineral		Principal minerals are epidote, quartz and opaque mineral. Accessories are actinolite and chlorite. These minerals run parallel to each other. Opaque mineral occurs as veinlet or dissemination.	
"	Drill Core MJ-7 181.70	N1693.890 E 690.260	Intrusive rock	Altered rhyolite or porphyry	Greenish grey, compact rock	Phenocryst is of partly sericitized plagioclase sericite and opaque minerals. Veinlets composed of epidote, opaque mineral and quartz are observed.	





Appendix 2-1 Microscopic Observation - Thin Section (6)

Area	Sample No.	Location (Coordinate)	Group	Rock Type	Macroscopic Features	Microscopic Observation	Remarks
Llano del Coyote	Drill Core MJ-7 196.30	N1693.890 E 690.260	Intrusive rock	Altered rhyo- lite or quartz por- phyry	Greyish white, silicified rock	Glass in the groundmass is devitrified and altered into quartzose matter and sericite, accompanied by opaque mineral. Veinlets of quartz, opaque mineral and epidote are observed.	
"	Drill Core MJ-7 200.80	N1693.890 E 690.260	Chicol F.	Sericite chlorite quartz schist (Rhyolite tuff origin?)	Greenish grey, compact rock	Fragments of pumice and chips composed of quartz, plagioclase and mafic mineral are scattered in the altered matrix, fragments of pumice and chips of plagioclase are wholly altered into sericite. Mafic minerals are also altered into secondary quartz, epidote, chlorite and opaque mineral. Veins composed of secondary quartz, chlorite, epidote and opaque mineral are observed.	
"	Drill Core MJ-7 206.70	N1693.890 E 690.260	Chicol F.	Quartz schist	White and bluish grey parts are banded. White part is coarser than bluish grey part	Black opaque mineral are scattered. Quartz and feldspar grains small in quantity are observed. Matrix is composed of fine quartz and sericite and shows arrangement of one direction.	
"	Drill Core MJ-7 222.10	N1693.890 E 690.260	Chicol F.	Sericite chlorite quartz schist (Rhyolite tuff origin?)	Pale greenish grey, compact siliceous rock	Chips of quartz, plagioclase, and fragments of porphyritic rock and pumice are scattered in the matrix. The matrix are altered and composed of sericite. Veinlets of quartz, chlorite, epidote and muscovite are observed.	
"	Drill Core MJ-7 224.00	N1693.890 E 690.260	Intrusive	Altered quartz porphyry	Greenish grey, siliceous rock	Phenocryst is quartz. Glass in the groundmass is devitrified and altered into quartzose matter, including sericite. Veinlets of quartz, chlorite and epidote are present.	



Appendix 2-1 Microscopic Observation - Thin Section (7)

Area	Sample No.	Location (Coordinate)	Group	Rock Type	Macroscopic Features	Microscopic Observation	Remarks
Llano del Coyote	Drill Core MJ-7 224.80	N1693.890 E 690.260	Intrusive	Altered granite	Pale greyish white, coarse-grained granitic rock	Principal minerals, of coarse-grained, are quartz, plagioclase and potassium feldspar. Small amounts of epidote, chlorite and sericite occur as secondary minerals. Opaque mineral is present, accompanied by epidote.	
"	Drill Core MJ-7 242.40	N1693.890 E 690.260	Intrusive	Altered quartz porphyry	Greyish white	Phenocryst is a small amount of quartz. Groundmass is composed of quartz, epidote, zoisite, sericite and muscovite.	
"	Drill Core MJ-7 251.90	N1693.890 E 690.260	Intrusive rock	Altered quartz porphyry	Greenish grey, compact rock	Phenocryst is of quartz, plagioclase and unidentified mafic mineral altered into aggregate of chlorite and epidote. The groundmass is felsic and is composed of quartz, feldspar and chlorite. Veinlets of epidote, chlorite and secondary quartz are present.	
"	Drill Core MJ-7 266.00	N1693.890 E 690.260	Intrusive rock	Altered quartz porphyry	Pale greenish grey, compact porphyritic rock	Phenocryst is of quartz, plagioclase. Unidentified mafic mineral altered into chlorite, epidote and opaque mineral. Some parts of plagioclase are altered into sericite. The groundmass is composed of quartz, feldspar sericite and epidote. Veinlet of sericite is observed.	
"	Drill Core MJ-8 6.05	N1694.198 E 690.400	Santa Rosa	Sandy shale	Pale green, weathered, fine-grained, loose rock	Subangular or subrounded grains of quartz and feldspar scattered in the altered matrix, composed of sericite and biotite. Opaque mineral is also observed.	



Appendix 2-1 Microscopic Observation - Thin Section (8)

Area	Sample No.	Location (Coordinate)	Group	Rock Type	Macroscopic Features	Microscopic Observation	Remarks
Llano del Coyote	Drill Core MJ-8 88.60	N1694.198 E 690.400	Intrusive rock	Quartz porphyry	Pale green, compact rock	Texture is vitroclastic. Phenocrysts are of quartz and feldspar. Feldspar is altered into sericite and epidote. Groundmass is altered into sericite and quartzose matter.	
"	Drill Core MJ-8 112.90	N1694.198 E 690.400	Intrusive rock	Quartz porphyry	Yellowish grey, felsic compact rock. Felsic grains are scattered.	Texture is vitroclastic. Phenocrysts of quartz and plagioclase are large in quantity. Albite twin of plagioclase can be observed. Matrix is altered to sericite and quartz. Epidote and apatite are also observed.	
"	Drill Core MJ-8 126.85	N1694.198 E 690.400	Intrusive rock	Granite	Holocrystalline granitic rock suffered to green alteration	It shows holocrystalline texture and is composed of quartz, plagioclase, orthoclase and biotite. Orthoclase is suffered sericitization. Epidote is also formed.	
"	Drill Core MJ-8 142.00	N1694.198 E 690.400	Intrusive rock	Quartz porphyry	Fine siliceous rock. Felsic crystals are scattered.	Principal minerals are angular quartz and plagioclase. Groundmass is composed of quartz, feldspar and sericite. A small amount of epidote is seen.	



Appendix - Microscopic Observation - Thin Section (9)

Sample No.	Location	Formation or Group	Rock Name	Macroscopic Features	Microscopic Observation	Remarks
Drill Core MJ-9 92.60	N1693.51 E 691.075	Chicol F.	Pyrite-sphalerite ore in chlorite skarn.	Pyrite and sphalerite grains are richly disseminated in dark gray gangue matrix.	Sphalerite is transparent and shagreen in thin section, and occurs as dense aggregates of anhedral crystals of 0.1 to 0.5mm in diameter. Sometimes it penetrates the grains of pyrite having the shape of minute veinlets. Replaced with chlorite. Pyrite is mostly anhedral to subhedral, but rarely keeps the cube-shaped euhedral crystal form. It occurs to have two sorts of grain size. Coarser grains are of 0.5 to 1.5mm in diameter and show anhedral to subhedral form surrounded and replaced by sphalerite and chlorite, whereas finer grains exhibit subhedral to euhedral form of 0.05mm ± in diameter included in sphalerite. Sphalerite and pyrite are cemented and replaced with radial or fibrous aggregates of acicular chlorite crystals.	
MJ-9 98.80	N1693.51 E 691.075	Intrusive rock	Porphyrite	White grey, altered rock. Felsic phenocrysts are scattered and pyrites disseminate.	Phenocryst is altered plagioclase. This rock is suffered wholly strong silicification. Groundmass is composed of relatively coarse sericite and quartz. Epidote is seen small in quantity.	





Appendix 2-1 Microscopic Observation - Thin Section (10)

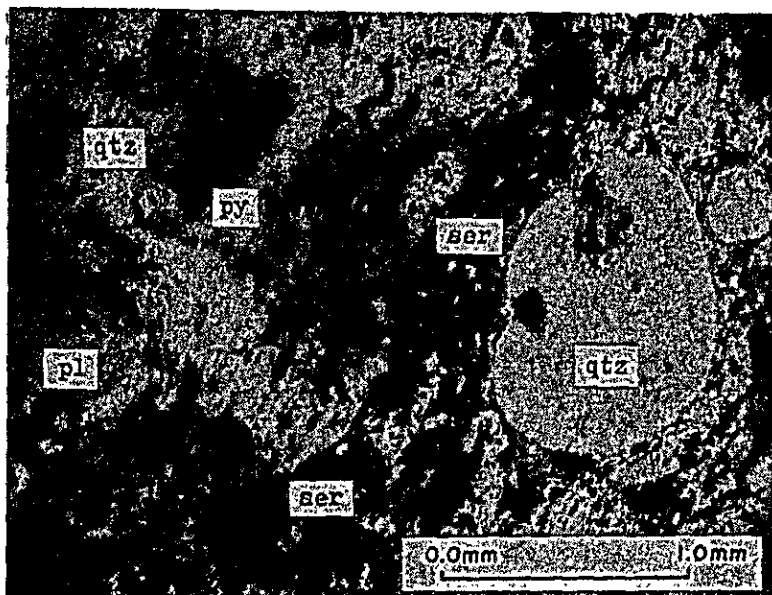
Area	Sample No.	Location (Coordinate)	Group	Rock Type	Macroscopic Features	Microscopic Observation	Remarks
Llano del Coyote	Drill Core MJ-9 104.75	N1693.511 E 691.075	Chicol F.	Garnet Skarn	Dark grey, massive rock	Garnet is zoned hexagonal in shape. Opaque mineral (Pyrite) occurs in dissemination or veinlet.	
"	Drill Core MJ-9 105.20	N1693.511 E 691.075	Vein	Quartz rock (Vein)	White compact rock	Principal mineral is quartz which is usually holocrystalline granular or idiomorphic hexagonal shape. (Sericite is also formed.) Black opaque and reddish needle-like minerals are scattered.	
"	Drill Core MJ-9 138.90	N1693.511 E 691.075	Chicol F.	Garnet-epidote-actinolite rock (Skarn)	Yellowish green, massive rock	Principal minerals are Garnet, epidote and tremolite. Opaque mineral accompanied by tremolite occurs mainly in garnet.	
"	Drill Core MJ-10 81.20	N1694.175 E 690.135	Intrusive rock	Quartz porphyry	Grey, laminated rock	Phenocrysts are plagioclase and a small amount of quartz. Groundmass is altered into sericite and quartzose matter. Veinlets of quartz are observed.	
"	Drill Core MJ-10 118.00	N1694.175 E 690.135	Intrusive	Altered quartz porphyry	Pale green, altered rock. Felsic phenocrysts are scattered.	Phenocryst is quartz which is 1.5mm in diameter. Groundmass is composed of quartz and sericite which are coarse and show granular texture. Veinlets of quartz are observed.	
"	Drill Core MJ-10 126.50	N1694.175 E 690.135		Quartz-epidote rock	Yellow and green parts are blended at random.	Principal minerals are quartz and epidote. Quartz is relatively coarse, 0.2mm in diameter. Veinlets of quartz are observed. Poikilitic and granular opaque minerals are scattered.	X-ray Diffractometry



Appendix 2-1 Microscopic Observation - Thin Section (11)

Area	Sample No.	Location (Coordinate)	Group	Rock Type	Macroscopic Features	Microscopic Observation	Remarks
Llano del Coyote	Drill Core NJ-10 149.70	N1694.175 E 690.135	Intrusive	Altered quartz porphyry	Pale bluish green rock. Green phenocrysts are scattered.	Phenocrysts are composed of quartz, plagioclase and altered mafic mineral. Unidentified mafic mineral is completely altered into sericite and chlorite. Groundmass is composed of quartz, sericite, chlorite and apatite in decreasing order. Opaque mineral is observed.	



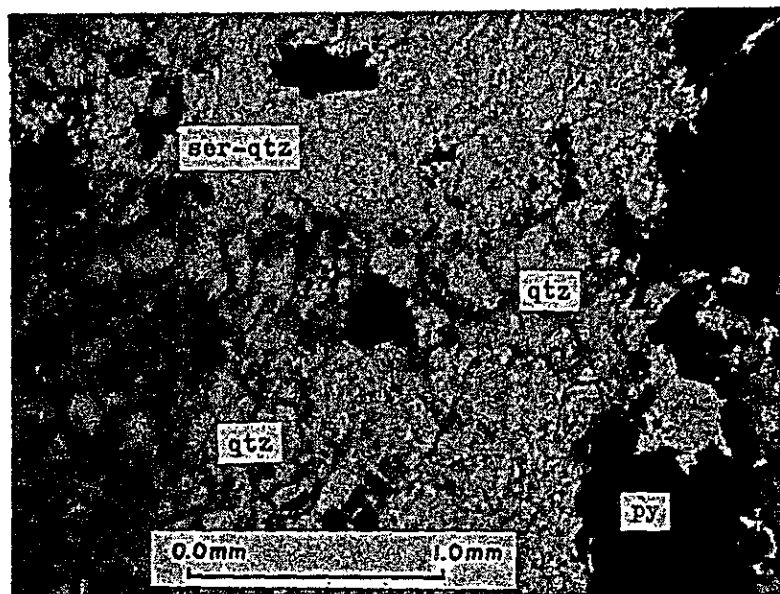


Sericite-chlorite  
quartz schist

Sample No. Drill core MJ-7  
222.10m

Locality Llano del Coyote

- qtz : Quartz
- pl : Plagioclase
- ser : Sericite
- py : Pyrite

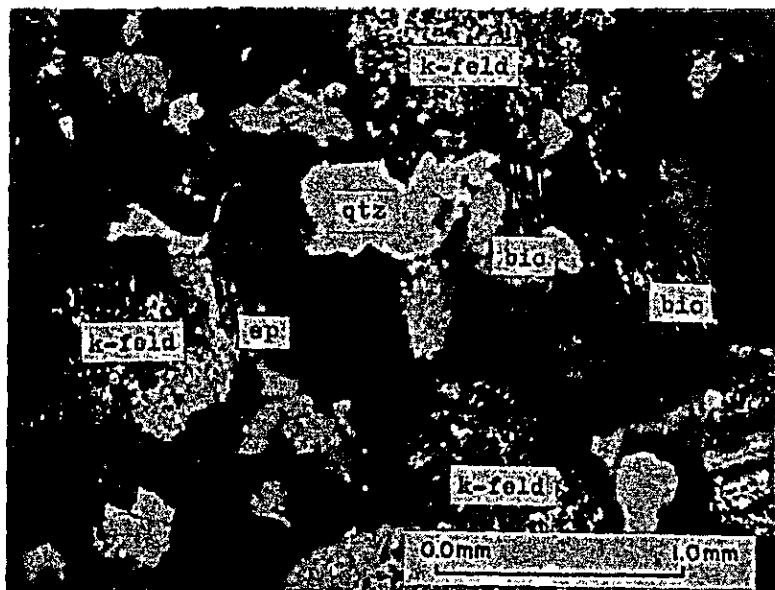


Altered sandstone

Sample No. Drill core MJ-7  
76.55m

Locality Llano del Coyote

- qtz : Quartz
- ser-qtz : Sericite-  
quartz aggregate



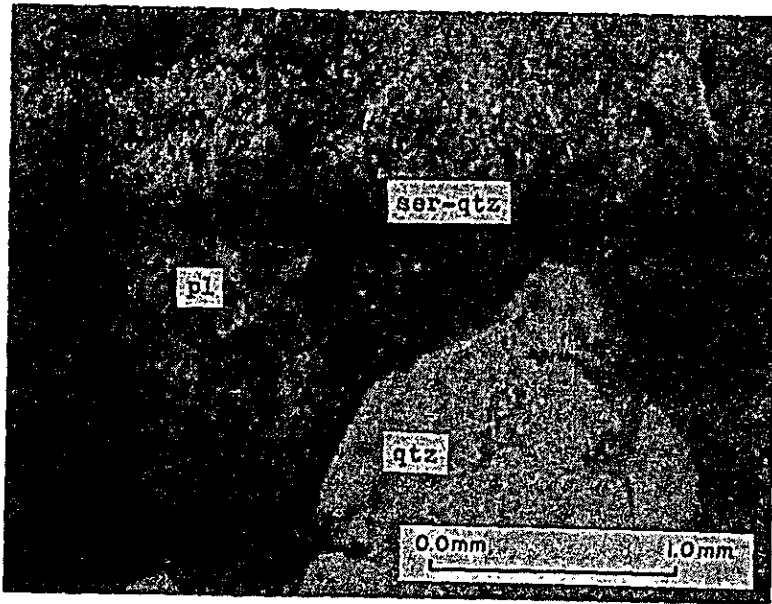
Altered hornblende  
biotite granodiorite

Sample No. J-94

Locality Llano del Coyote

- qtz : Quartz
- k-feld : Potash feldspar
- bio : Biotite
- ep : Epidote



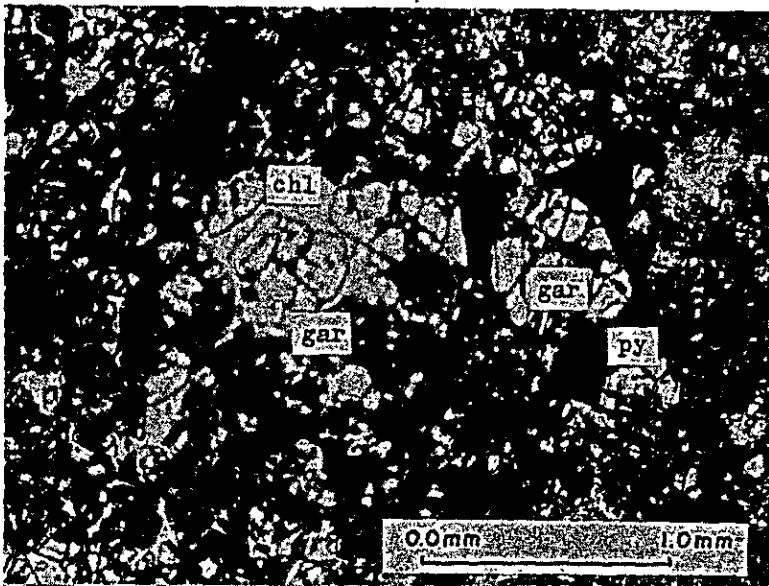


Altered quartz porphyry  
 Sample No. Drill core MJ-10  
 118.00m

Locality Llano del Coyote

qtz : Quartz  
 pl : Plagioclase  
 ser-qtz : Sericite-quartz  
 aggregate

Open nicol

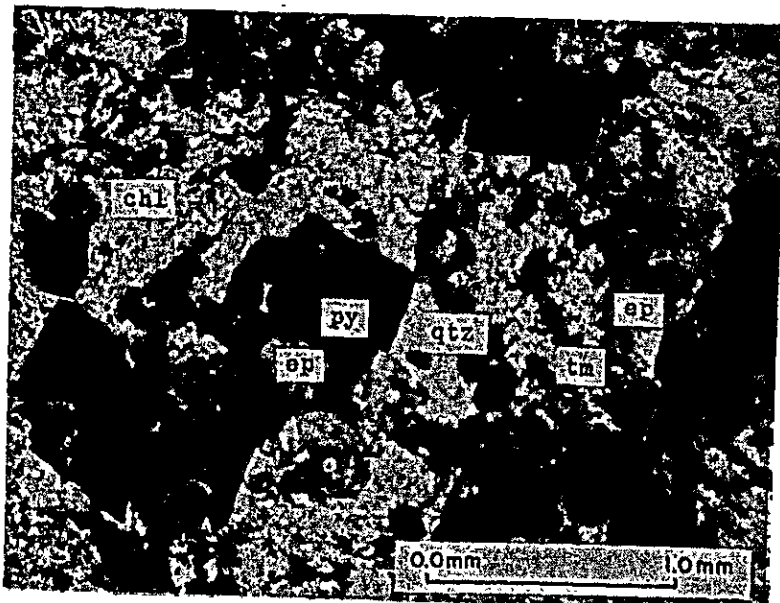


Garnet skarn

Sample No. Drill core MJ-9  
 104.75m

Locality Llano del Coyote

gar : Garnet  
 chl : Chlorite  
 py : pyrite



Chlorite-tremolite-  
 epidote skarn

Sample No. Drill core MJ-7  
 126.30m

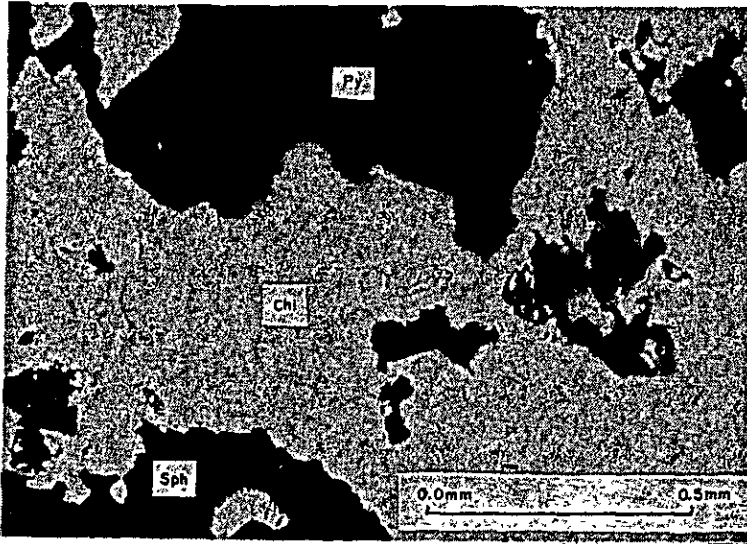
Locality Llano del Coyote

qtz : Quartz  
 ep : Epidote  
 tm : Tremolite  
 chl : Chlorite  
 py : Pyrite

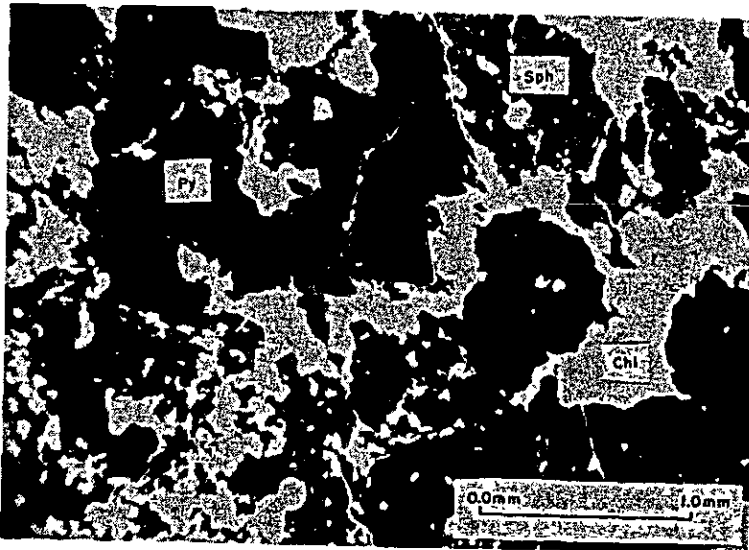




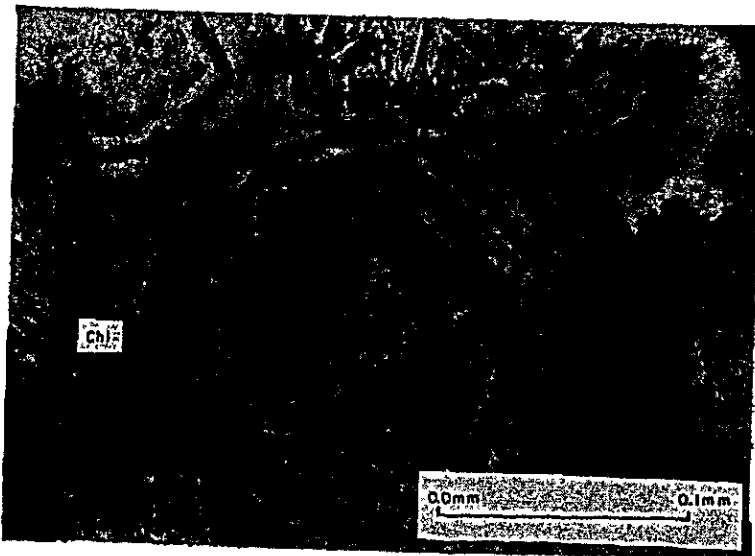
Appendix 2-2 Photomicrographs of thin sections (3)



Pyrite-sphalerite ore  
Sample No. Drill core MJ-9  
92.60m  
Locality : Llano del Coyote  
Chl : Chlorite  
Py : Pyrite  
Sph : Sphalerite  
x10



Pyrite-sphalerite ore  
Sample No. Drill core MJ-9  
92.60m  
Locality : Llano del Coyote  
Chl : Chlorite  
Py : Pyrite  
Sph : Sphalerite  
x4



Pyrite-sphalerite ore  
Sample No. Drill core MJ-9  
92.60m  
Locality : Llano del Coyote  
Chl : Chlorite  
x40



Appendix 3-1 Microscopic Observation - Polished Section (1)

Area	Sample No.	Location (Coordinate)	Group	Rock Type	Macroscopic Features	Microscopic Observation	Remarks
Llano del Coyote	J 51	N1693.45 E 691.10	Tactic	Limonite gossan	Irregular network veinlets of sub-metallic mineral in porous brick-like red matrix.	Limonite -- Colloidal deposition of limonite filling up the cracks and cavities in gangue. No sulfides are observable.	Chemical analysis: Ag 1g/t, Cu 0.02%, Pb Tr, Zn 0.01%, S 0.09%, Fe 30.77%, Mn 0.12%.
"	J 103	N1693.85 E 691.00	Tactic	Massive magnetite and hematite	Thick aggregate of fine-grained dark grey metallic magnetic mineral. Magnetism is a little weaker than pure magnetite.	Magnetite --- Aggregate of short-prismatic crystals of about 0.02mm x 0.05mm size. Hematite -- Magnetite crystals are significantly changed to hematite showing lattice-like texture.	X-ray: Appendix 5  Chemical analysis: Ag 1g/t, Cu 0.01%, Pb Tr, Zn 0.01%, S 0.02%, Fe 40.16%, Mn 0.18%.
"	K 21	N1694.21 E 690.04	Tactic	Manganese oxide ore	Massive black sub-metallic mineral, partly fibrous. Not magnetic.	Chalcophanite (Zn Mn <sub>3</sub> O <sub>7</sub> · 3H <sub>2</sub> O) -- Aggregate of minute fibrous acicular crystals. Anisotropism is distinct. No internal reflection. Identified by X-ray.	Microphotograph: Appendix 3-2  Chemical analysis: Ag 15g/t, Cu 0.05%, Pb 0.24%, Zn 3.75%, S 0.08%, Fe 42.03%, Mn 37.91%.
"	K 159	N1695.05 E 687.78	Tactic	Skarn with pyrite and magnetite	Dissemination of irregular shaped pyrite aggregates in green epidote skarn. Partly magnetic.	Pyrite -- Subhedral grains of 0.05 ~ 0.3mm φ with many minute inclusions are dispersed. Fine cracks are developed in these grains. Magnetite -- It occurs as irregular euhedral crystals of 0.02 ~ 0.1mm φ in gangue minerals.	X-ray diffractometry: 6.95 Å (100) 4.07 Å (10) 3.49 Å (20)  Chemical analysis: Au 0g/t, Ag 1g/t, Cu 0.01%, Pb Tr, Zn 0.01%, S 4.00%, Fe 16.92%, Mn 0.06%.



Appendix 3-1 Microscopic Observation - Polished Section (2)

Area	Sample No.	Location (Coordinate)	Group	Rock Type	Macroscopic Features	Microscopic Observation	Remarks
Llano del Coyote	S 28A	N1694.68 E 688.95	Tactic	Porphyritic rock with magnetite dissemination	Poor dissemination of dark grey metallic magnetic mineral in white-spot bearing siliceous rock.	Magnetite --- Irregular-shaped dense aggregate of granular crystals with many inclusions. In the magnetite crystals, light grey mineral (maybe hematite) is formed along crystallographic directions showing lattice-like or lamella texture.	Chemical analysis: Au 0g/t, Ag 2g/t, Cu 0.04%, Pb Tr, Zn 0.28%, S 0.51%, Fe 23.60%, Mn 0.17%.
"	S 42	N1693.95 E 691.28	Tactic	Skarn with magnetite	Banded aggregate of dark grey metallic magnetic fine-grained crystals in green epidote skarn.	Magnetite -- Dissemination and aggregate of euhedral crystals of about 0.05mmφ. Hematite -- It occurs secondarily in magnetite grains showing lattice-like form. Some of the magnetite grains are almost fully oxidized to hematite.	Microphotograph: Appendix 3-2  Chemical analysis: Au 0g/t, Ag 1g/t, Cu Tr, Pb Tr, Zn 0.01%, S 0.12%, Fe 28.63%, Mn 0.20%.
"	S 123	N1694.54 E 689.24	Tactic	Limonite gossan	Porous light brown limonitic rock (gossan)	Hematite and/or hydro-hematite -- Colloform texture is distinct, sometimes oolitic. Veinlets of 0.002mmφ width are developed throughout the specimen. Rhythmic banding is recognized by means of faint difference of reflexion color.	Chemical analysis: Ag 2g/t, Cu 0.08%, Pb 0.06%, Zn 1.00%, S 0.13%, Fe 47.10%, Mn 0.17%.
"	Drill Core MJ 7 82.75	N1693.890 E 690.260	Chicol	Massive pyrite with magnetite and skarn	Dense aggregate of granular pyrite crystals in dark grey, strongly magnetic matrix.	Pyrite -- Major constituent mineral occurring as aggregate of euhedral to subhedral crystals larger than 0.2mmφ, and including minute magnetite grains of about 0.05mmφ. Magnetite -- Other than the granular crystals included in pyrite, it occurs in the interstitial gangue minerals and shows granular to short-prismatic shape. Hematite -- It replaces the magnetite crystals to form fibrous crystals, also occurs in gangue as fibrous aggregate.	Chemical analysis: Depth 81.60m ~ 82.75m (1.15m), Ag 2g/t, Cu 0.09%, Pb Tr, Zn 0.02%, S 9.95%, Fe 20.22%, Mn 0.17%.



Appendix 3-1 Microscopic Observation - Polished Section (3)

Area	Sample No.	Location (Coordinate)	Group	Rock Type	Macroscopic Features	Microscopic Observation	Remarks
Llano del Coyote	Drill Core MJ-7 123.35	N1693.890 E 690.260	Chicol	Skarn with pyrite dissemination	Vein-form aggregate of granular pyrite in dark grey rock of weak magnetism.	Pyrite -- Aggregate of euhedral (cube-shaped) to subhedral crystals of 0.02 ~ 0.5mm $\phi$ Chalcopyrite -- Rarely included in pyrite grains showing euhedral shape. Magnetite -- In granular and anisotropic gangue minerals occurring in the interstices of pyrite grains, granular crystals of magnetite with the size of about 0.02mm are scattered.	Microphotograph: Appendix 3-2 Chemical analysis: Depth 122.30m ~ 123.60m (1.30m) Au Og/t, Ag 2 g/t Cu 0.01%, Pb Tr , Zn 0.14%, Fe 26.54%, Mn 0.22%,
"	Drill Core MJ-7 192.40	N1693.890 E 690.260	Chicol	Massive magnetite	Massive aggregate of dark grey, metallic and strongly magnetic grains of magnetite.	Magnetite -- Thick aggregate of minute granular crystals of magnetite having the size of about 0.01mm $\phi$ . Gangue minerals are included abundantly in the interstices. No sulfides are observable.	Chemical analysis: Depth 191.70m ~ 192.40m (0.70m) Au Og/t, Ag 1 g/t Cu 0.02%, Pb Tr , Zn 0.01%, Fe 9.45%, Mn 0.05%,
"	Drill Core MJ-9 75.00	N1693.511 E 691.075	Tactic	Disseminated pyrite with altering minerals	Thick aggregate of fine-grained granular pyrite. Not magnetic.	Pyrite -- Cube-shaped euhedral crystals of 0.05 ~ 0.5mm $\phi$ are cemented with gangue minerals. Limolite -- It occurs along the peripheries and cracks of pyrite grains, having the width of 0.01 ~ 0.02mm	X-ray diffractometry: Quartz, Plagioclase, Sericite, Chlorite, Montmorillonite.

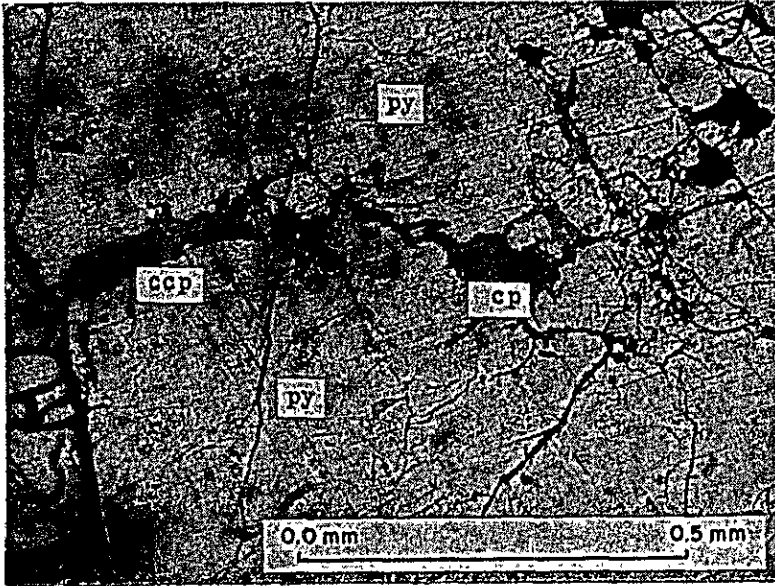




Appendix- Microscopic Observation - Polished Section (4)

Sample No.	Location	Formation or Group	Rock Name	Macroscopic Features	Microscopic Observation	Remarks
Drill Core MJ-9 82.50	N1693.511 E 691.075	Tactic	Pyrite-chalcocite ore	Pyrite grains are cemented with limonite and steely black chalcocite-like mineral.	Pyrite grains are generally anhedral, and their grain size varies diversely from 0.05mm to 5mm. These pyrite grains are cut and cemented with limonite, gangue with bluish green internal reflection, and light gray minerals with various shades of pink and blue. Light gray mineral with pinkish tint is substantially isotropic, and does not show reflection pleochroism and internal reflection. It is perhaps a kind of so-called "chalcocite". Light gray mineral with bluish tint is weakly anisotropic, and does not show reflection pleochroism and internal reflection. It is presumably digenite. The pinkish one is cut and covered botryoidally with the bluish one. Roughly separated specimen of the light gray material is proved to contain djurleite by X-ray powder diffraction.	Chemical analysis: Depth 82.30-82.90m (0.60m) Au 1g/t, Ag 18g/t, Cu 3.80%, Pb 0.01%, Zn 0.80%, Fe 34.32%, Mn 0.19%,
MJ-9 92.60	N1693.511 E 691.075	Chicol	Pyrite-sphalerite ore in chlorite (amphibole) skarn	Pyrite and sphalerite grains are richly disseminated in dark gray gangue matrix	Sphalerite and pyrite show the modes of occurrence. Same as described about observation in thin section. (cf Appendix 2-1). Under the reflected light, sphalerite exhibits weak internal reflection of light brownish gray color. No chalcocite or galena is included.	Chemical analysis: Depth 92.50-93.00m (0.50m) Au 0 g/t, Ag 4 g/t, Cu 0.10%, Pb Tr, Zn 17.12%, Fe 29.08%, Mn 0.16%,
MJ-10 56.60	N1694.175 E 690.135	Tactic	Quartzose rock with pyrite dissemination	Thick dissemination of fine-grained pyrite in siliceous rock. Not magnetic.	Pyrite -- Subhedral grains of 0.05 ~ 0.5mmφ are cemented by gangue minerals. No other kind of ore minerals is observable.	Chemical analysis: Depth 56.10-57.10m (100m) Ag 2 g/t Cu Tr Pb Tr Mn Tr Zn Tr Fe 33.69%,

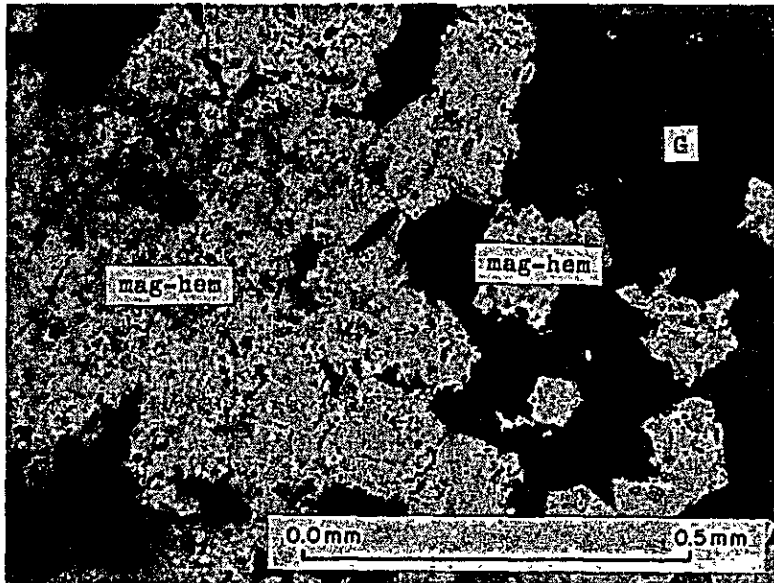
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Pyrite-chalcopyrite ore  
 Sample No. Drill core MJ-7  
 123.35m

Locality Llano del Coyote

- py : Pyrite
- cp : Chalcopyrite

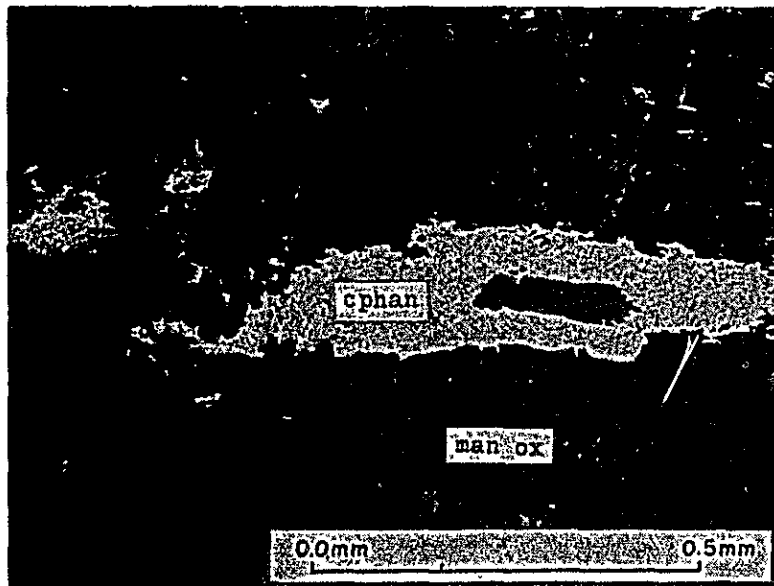


Magnetite-hematite ore  
 Sample No. S42

Locality Llano del Coyote

- mag-hem : Magnetite  
 (light gray)  
 and hematite  
 (gray)

G : Gangue



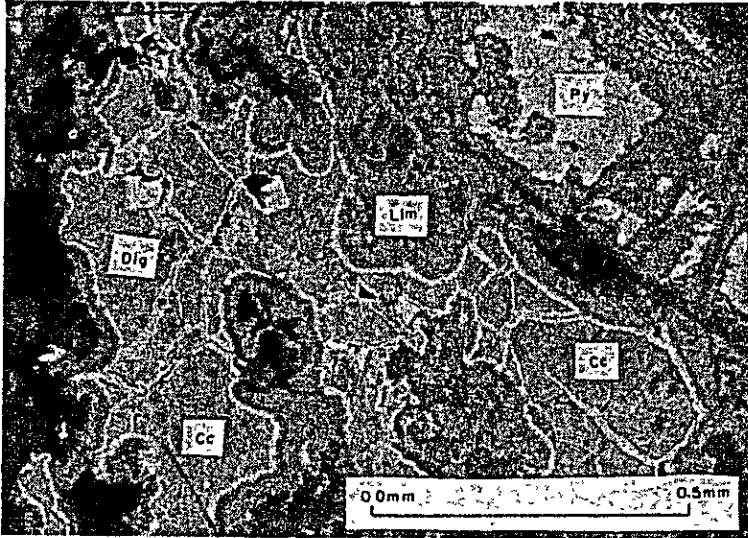
Manganese oxide ore

Sample No. K21

Locality Llano del Coyote

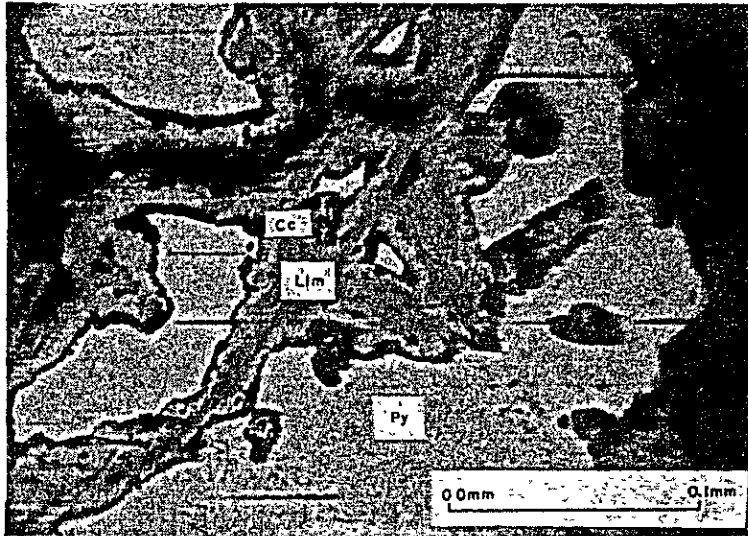
- cphan : Chalcophanite
- man ox: Manganese oxide





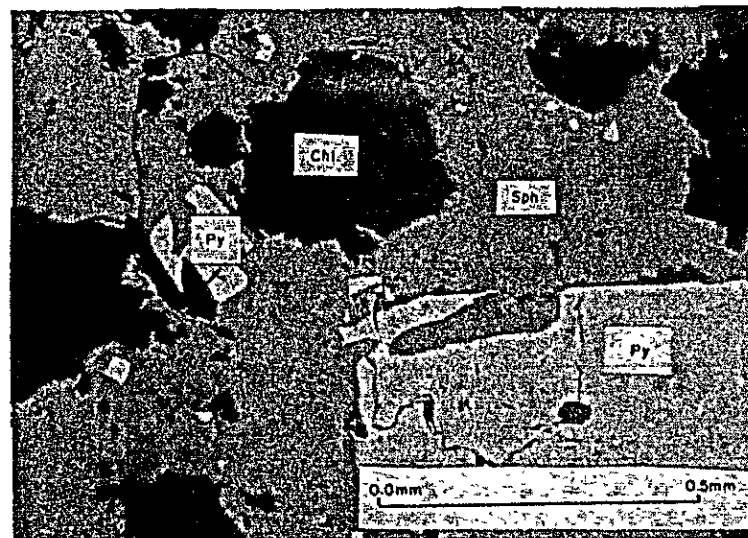
Pyrite-Chalcocite ore  
 Sample No. Drill core MJ-9  
 82.50m

Locality: Llano del Coyote  
 Lim : Limonite  
 Py : Pyrite  
 Cc : Chalcocite  
 Dig : Digenite  
 x10



Pyrite-chalcocite ore  
 Sample No. Drill core MJ-9  
 82.50m

Locality : Llano del Coyote  
 Lim : Limonite  
 Py : Pyrite  
 Cc : Chalcocite  
 x40



Pyrite-sphalerite ore  
 Sample No. Drill core MJ-9  
 92.60m

Locality : Llano del Coyote  
 Chl : Chlorite  
 Py : Pyrite  
 Sph : Sphalerite  
 x10

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Appendix 4-1 Summary of X-ray Powder Diffractometry

Sample No.	Location (Coordinate)		Rock Type	Quartz	Plagioclase	Amphibole	Sericite	Chlorite	Kaolin	Montmorillonite	Garnet	Epidote	Calcite	Hematite	Pyrite	Others	Remarks
	N	E															
J 7A	1694.51	689.95	Quartz porphyry	+++	-	-	++	-	-	-	-	-	-	-	-	-	
8	1694.59	690.04	Sandstone	+	-	++	-	-	+	+	++	+++	-	-	-	-	
10	1694.60	689.85	Quartz porphyry	++	+++	-	+	-	+++	-	-	-	-	-	-	-	
15	1694.34	688.24	Granite	++	++	-	+	-	-	-	-	-	+	-	-	-	
17	1694.44	688.42	Sandstone	+	++	-	++	-	-	+	-	-	-	-	-	-	
19	1694.62	688.35	Granodiorite	+	+++	+++	+	-	-	++	-	-	-	-	-	-	
23	1694.97	688.22	Sericite schist	+++	-	-	+++	-	-	-	-	-	-	-	-	-	
26	1695.11	688.37	Acidic volcanic rocks	+	++	-	++	-	-	-	-	-	-	-	-	-	
32	1695.31	688.55	Green schist	++	++	-	++	-	-	-	-	-	-	-	-	-	
37	1695.65	688.08	Granodiorite	+	++	-	+	++	-	-	-	-	+++	-	-	-	
38	1695.56	688.05	Granodiorite	++	++	-	++	-	-	-	-	-	+	-	-	-	
40	1695.41	688.29	Acidic volcanic rocks	++	++	-	++	-	+	+	-	-	+++	-	-	-	
41	1695.32	688.22	Green schist	+	?	-	+++	-	+++	+++	-	-	-	-	-	-	
45	1694.63	687.73	Granite	++	++	-	+	-	-	-	-	+	+	-	-	-	
55	1693.54	691.53	Quartz porphyry	+	++	-	+	-	+++	++	-	-	-	-	-	-	
58	1693.66	691.64	Acidic volcanic rocks	++	-	-	+++	-	-	-	-	-	-	-	-	-	
65	1693.89	691.18	Quartz porphyry	+	++++	-	+	-	++	++	-	-	-	-	-	-	
84	1692.66	691.46	Granite	++	++	-	+	-	-	-	-	-	+	-	-	-	
90	1692.63	691.19	Granodiorite	+	++	-	+	++++	-	-	-	-	+	-	-	-	
94	1692.94	691.28	Granodiorite	+	++	-	+	-	++	++	-	++	-	-	-	-	

++++ Very abundant    +++ Abundant    ++ Common    + A little    - Not detected





Appendix 4-1 Summary of X-ray Powder Diffractometry

Sample No.	Location (Coordinate)		Rock Type	Quartz	Plagioclase	Amphibole	Sericite	Chlorite	Kaolin	Montmorillonite	Garnet	Epidote	Calcite	Hematite Gothite	Pyrite	Others	Remarks
	N	E															
J 96	1693.62	691.09	Siltstone	+	-	-	-	-	-	-	-	++++	-	-	-	-	Chart: Appendix 5(1)
98	1693.71	691.08	Siltstone	+	-	-	-	-	-	-	-	++++	-	-	-	-	
101	1693.78	691.13	Skarn	+	-	-	-	-	+	+++	-	++++	-	-	-	-	
102	1693.82	691.00	Granodiorite	+	++	-	++	-	++	-	-	-	-	-	-	-	Chart: Appendix 5(2)
103			Magnetite mineralized siliceous rock	++	-	-	-	-	-	-	-	-	-	++++	-	-	
104	1693.91	691.03	Quartz porphyry	++	-	-	++	-	-	-	-	-	-	-	-	-	
105	1693.76	690.88	Siltstone	++	-	-	+	-	+	-	-	-	-	+	-	-	Chart: Appendix 5(3)
107	1693.88	690.92	Siltstone	++	+	-	++	+++	-	-	-	-	-	-	-	-	
109	1693.89	690.74	Sandstone	++	-	-	++	-	-	-	-	-	-	-	-	-	
111	1693.80	690.63	Quartz porphyry	++	-	-	++	-	-	-	-	-	-	-	-	-	Chart: Appendix 5(3)
114	1693.59	690.68	Quartz porphyry	++	-	-	+++	-	-	-	-	-	-	-	-	-	
115	1693.50	690.84	Sandstone	++	-	-	+++	-	-	-	-	-	-	-	-	-	
116	1693.62	690.95	Siltstone	+	-	-	-	-	-	-	-	+++	-	-	-	-	Chart: Appendix 5(3)
117	1693.55	691.02	Siltstone	+	++	-	+	-	++	++	-	++	-	-	-	-	
119	1693.45	690.95	Sandstone	++	-	-	++	-	-	-	-	-	-	-	-	-	
120	1693.39	690.89	Granodiorite	+	-	-	+	-	+++	-	-	-	-	-	-	-	Chart: Appendix 5(3)
123	1692.85	692.03	Siltstone	++	++	-	+	-	++	+++	-	++	-	-	-	-	
124	1692.88	692.13	Siltstone	++	++	-	+	-	+	-	-	-	-	-	-	-	
125	1692.94	692.25	Siltstone	++	-	-	++	-	++	+	-	-	-	-	-	-	Chart: Appendix 5(3)
126	1692.97	692.32	Acidic volcanic rocks	++	++	-	+	-	-	-	-	-	-	-	-	-	

++++ Very abundant    +++ Abundant    ++ Common    + A little    - Not detected



Appendix 4-1 Summary of X-ray Powder Diffractometry

Sample No.	Location (Coordinate)		Rock Type	Quartz	Plagioclase	Amphibole	Sericite	Chlorite	Kaolin	Montmorillonite	Garnet	Epidote	Calcite	Remantite Goechite	Pyrite	Others	Remarks
	N	E															
J128	1693.00	692.36	Black slate	+	+++	+++	-	-	++	-	-	++	-	-	-		
130	1693.05	692.47	Limestone	+	?	-	-	-	-	-	-	-	+++	-	-		
133	1693.18	692.53	Limestone	+	-	-	-	-	-	-	-	-	+++	-	-		
135	1693.19	692.39	Limestone	+	-	-	-	-	-	-	-	-	+++	-	-		
137	1693.15	692.19	Green schist	+	-	-	++	-	++	++	-	-	-	-	-		
139	1693.02	692.07	Quartz rock	+++	-	-	-	-	-	-	-	-	-	-	-		
140	1692.98	692.00	Quartz porphyry	++	+++	-	+	-	+	-	-	-	-	-	-		
145	1694.24	689.74	Cossan	+++	-	-	-	-	+	-	-	++	-	-	-		
155	1693.87	689.56	Siltstone	+	-	-	+++	-	-	+	-	-	-	+	-		
156	1693.83	689.42	Granite	+++	-	-	+++	-	-	-	-	-	-	-	-		
157	1693.78	689.50	Granite	+	++	-	++	-	-	-	-	-	+	-	-		
158	1693.73	689.61	Granite	++	++	-	+	-	+	-	-	-	+	-	-		
K 9	1693.71	689.89	Sandstone	+++	-	-	+	-	-	-	-	-	-	-	-		
13	1693.82	689.95	Granite	-	+++	+++	-	-	-	-	-	-	-	-	-		
17	1694.02	690.06	Siltstone	+	+++	-	-	-	-	++	-	+++	-	-	-		
21	1694.19	690.04	Manganese oxide ore	+++	-	-	-	-	-	-	-	-	-	-	-	Chalco-	Chart: Appendix 5(4)
22	1694.29	690.08	Siltstone	+	-	++	-	-	-	-	+++	++	-	-	-	nite	Chart: Appendix 5(5)
34	1694.39	690.47	Quartz porphyry	+	-	-	-	-	-	-	-	++	-	-	-		
40	1694.33	690.58	Quartz porphyry	++	-	-	++	-	-	-	-	-	-	-	-		
47	1693.68	690.59	Quartz porphyry	+	-	-	+++	-	-	-	-	-	-	-	-		

++++ Very abundant    +++ Abundant    ++ Common    + A little    - Not detected



Appendix 4-1 Summary of X-ray Powder Diffractometry

Sample No.	Location (Coordinate)		Rock Type	Quartz	Pia- Eio- clase	Amph- ibole	Ser- cite	Chlo- rite	Kaolin	Mont- moril- lonite	Garnet	Epi- dote	Cal- cite	Hema- tite Goe- thite	Pyrite	Others	Remarks
	N	E															
K 55	1694.90	687.97	Granodiorite	+	+++	++	+	-	-	-	-	++	-	-	-	-	
62	1694.97	687.68	Green schist	+	++	-	+	+++	-	-	-	++	-	-	++	-	
78	1695.07	687.33	Granodiorite	+	++	-	++	-	-	-	-	-	-	-	-	-	
83	1693.41	691.71	Quartz porphyry	++	++	-	+	-	-	-	-	-	-	-	-	-	
87	1693.69	691.84	Acidic volcanic rocks	+	++	-	+	-	++	-	-	-	-	-	-	-	
95	1693.12	691.99	Acidic volcanic rocks	++	+++	-	+	-	++	-	-	-	-	-	-	-	
99	1693.26	692.04	Siltstone	+	-	-	-	-	-	-	-	-	-	-	-	-	
104	1693.15	692.07	Quartz porphyry	++	+++	-	-	-	+	-	-	++	-	-	-	-	
124	1692.49	692.42	Acidic volcanic rocks	+++	-	-	++	-	-	-	-	-	-	-	-	-	
127	1692.29	692.24	Quartz diorite	+	+	-	++	-	++	-	-	-	-	-	-	-	
131	1692.47	692.08	Granodiorite	+	+++	-	+	-	-	+++	-	-	-	-	-	-	
136	1692.79	692.03	Epidote-quartz -actinolite rock	++	-	++	-	-	-	-	-	+++	-	-	-	-	
140	1694.95	688.04	Siltstone	+++	+	-	+	-	+	-	-	-	-	-	-	-	
144	1695.01	688.04	Sandstone	++	+++	-	+	-	-	++	-	-	-	-	-	-	
147	1695.01	687.90	Quartz porphyry	+	+++	-	+	-	-	++	-	?	-	-	-	-	
152	1695.10	687.92	Granodiorite	+	+++	-	+	-	++	+	-	?	-	-	-	-	
157	1695.08	687.80	Acidic volcanic rocks	+	++	-	+	+++	-	-	-	-	-	-	-	-	
158	1695.14	687.85	Quartz rock	+	-	-	-	-	++	-	-	-	-	-	-	Glass	
160	1695.19	687.80	Green schist	+	++	-	++	+++	-	-	-	-	+++	-	-	-	
162	1695.30	687.75	Quartz-epidote rock	+++	-	-	-	-	-	-	-	+++	-	-	-	-	

++++ Very abundant    +++ Abundant    ++ Common    + A little    - Not detected



Appendix 4-1 Summary of X-ray Powder Diffractometry

Sample No.	Location (Coordinate)		Rock Type	Quartz	Fla-glo- clase	Amph- ibole	Ser- cite	Chlo- rite	Kaolin	Mont- moril- lonite	Garnet	Epi- dote	Cal- cite	Hema- tite Goe- chite	Pyrite	Others	Remarks
	N	E															
K166	1695.32	687.62	Epidote-quartz rock	+	-	-	-	-	++	+	-	++++	-	-	-	-	
168	1695.27	687.55	Granite	++	++	-	+	-	-	-	-	?	++	-	-	-	
169	1692.68	692.41	Quartz epidote rock	+	-	-	-	-	-	-	-	++++	-	-	-	-	
171	1692.61	692.42	Sandstone	+	-	-	+++	-	+++	-	-	-	-	-	-	-	
172	1692.34	692.76	Sandstone	+++	+	-	+	-	+	-	-	-	-	-	-	-	
176	1692.15	692.75	Granitic rock	++	-	-	++	-	-	-	-	-	-	-	-	-	
177	1692.50	692.68	Quartz porphyry	+	++	-	+	-	-	-	-	-	-	-	-	-	
182	1692.65	691.64	Quartz diorite	++	+	-	+++	-	+++	-	-	-	-	-	-	-	
189	1693.41	691.35	Shale	++	+	-	+	+++	-	-	-	+++	-	-	-	-	
191	1693.45	691.39	Shale	+	-	+++	-	+++	-	+++	-	+	-	-	-	-	
193			Siltstone	+++	-	-	-	++	-	-	-	-	-	-	-	-	Malachite stain
197	1693.30	691.43	Quartz porphyry	+++	-	-	++	-	-	-	-	-	-	-	-	-	
202	1693.27	691.65	Quartz porphyry	+++	-	-	++	-	-	-	-	-	-	-	-	-	
213	1692.71	692.11	Granodiorite	+	-	-	+	-	+++	++	-	+	-	-	-	-	
215	1692.73	692.18	Skarn	-	-	+++	-	-	-	++	-	+++	-	-	-	-	
218	1692.83	692.34	Acidic volcanic rocks	++	++	-	++	-	+	-	-	-	-	-	-	-	
223	1692.90	691.91	Granodiorite	+	++	-	+	-	++	-	-	-	-	-	-	-	
S 1	1694.24	689.22	Granodiorite	?	++	+++	-	+++	-	-	-	++	-	-	-	-	
2	1693.96	689.03	Siltstone	+	++	-	++	-	+	-	-	-	-	-	-	-	
3B	1693.98	689.10	Quartz porphyry	+	+++	-	+	-	+	-	-	-	-	-	-	-	

++++ Very abundant    +++ Abundant    ++ Common    + A little    - Not detected





Appendix 4-1 Summary of X-ray Powder Diffractometry

Sample No.	Location (Coordinate)		Rock Type	Quartz	Feldspar	Amphibole	Sericite	Chlorite	Kaolin	Montmorillonite	Garnet	Epidote	Calcite	Hematite	Pyrite	Others	Remarks
	N	E															
S 6A	1694.56	689.65	Quartz porphyry	++	-	-	+	-	+	-	-	-	-	-	-	-	
8	1695.28	689.50	Granodiorite	+	++	+++	+	+++	-	-	-	++	-	-	-	-	
10	1694.89	689.13	Green schist	+	+++	-	++	+++	-	-	-	-	+++	-	-	-	
17	1694.47	689.12	Skarn	++	+++	+++	-	-	-	-	-	++	-	-	-	-	
19	1694.57	689.26	Quartz-epidote rock	++	-	-	-	-	-	-	-	+++	-	-	-	-	
21	1694.79	689.12	Quartz porphyry	+	+++	-	+	-	-	-	-	-	-	-	-	-	
23	1694.94	688.97	Quartz porphyry	++	-	-	+++	-	-	-	-	-	-	-	-	-	
33	1694.08	688.77	Siltstone	+++	-	-	++	-	++	-	-	-	-	-	-	-	
40	1693.72	691.25	Quartz porphyry	+++	+	-	+	-	+	-	-	-	-	-	-	-	
46	1694.40	691.00	Rhyolitic pumice tuff	++	+	-	+++	-	+	-	-	-	-	-	-	-	
48	1694.45	690.80	Green schist	+	++	-	+	+++	-	-	-	+	+++	-	-	-	
60	1693.30	690.37	Granodiorite	-	+++	+++	-	-	++	-	-	-	-	-	-	-	
61	1693.12	690.51	Quartz-epidote -actinolite rock	+	-	+++	-	-	-	-	-	+++	-	-	-	-	
64	1693.12	691.01	Granodiorite	+	+	-	++	-	+++	-	-	-	-	-	-	-	
66	1693.00	691.18	Granodiorite	++	-	-	+	-	-	-	-	-	-	-	-	-	
69	1692.73	690.98	Granodiorite or quartz porphyry	+	++	-	+++	-	-	-	-	-	-	-	-	-	
75	1692.75	690.80	Granite	++	++	-	+	-	-	-	-	?	+	-	-	-	
78	1693.02	690.91	Quartz diorite	++	-	-	+++	-	-	-	-	-	-	-	-	-	
79	1693.06	690.73	Quartz diorite	+	++	-	+	-	++	-	-	-	-	-	-	-	
85	1692.89	690.51	Granodiorite	++	++	-	+	-	-	-	-	?	-	-	-	-	

++++ Very abundant    +++ Abundant    ++ Common    + A little    - Not detected



Appendix 4-1 Summary of X-ray Powder Diffractometry

Sample No.	Location (Coordinate)		Rock Type	Quartz	Plagioclase	Amphibole	Serpentine	Chlorite	Kaolin	Montmorillonite	Garnet	Epidote	Calcite	Hematite	Pyrite	Others	Remarks
	N	E															
S 88	1693.24	690.79	Quartz porphyry	++	-	-	+++	-	-	-	-	-	-	-	-	-	
92	1693.92	690.37	Quartz porphyry	++	-	-	+++	-	-	-	-	-	-	-	-	-	
95	1693.99	690.47	Siltstone	+	+++	+++	-	-	-	-	-	-	-	-	-	-	
97	1694.10	690.35	Quartz-epidote rock	++	-	-	-	-	-	++	-	+++	-	-	-	-	
98	1694.01	690.16	Quartz-epidote rock	+	-	+++	-	-	-	-	-	+++	-	-	-	-	
105	1694.19	689.42	Granodiorite	+	+++	-	+	-	++	++	-	-	-	-	-	-	
108	1693.84	689.85	Siltstone	++	++	-	++	-	++	-	-	-	-	-	-	-	
109	1693.92	689.99	Quartz porphyry	++++	-	-	+	-	++	-	-	-	-	-	-	-	
110	1693.82	690.22	Siltstone	++	-	-	+	-	+++	-	-	+	-	-	-	-	
111	1693.88	690.15	Sandstone	++++	-	-	+	-	-	-	-	-	-	-	-	-	
112	1694.55	688.52	Sandstone	++	+	-	++	-	-	-	-	-	-	-	-	-	
113	1694.51	688.52	Granodiorite	+	++	-	+	-	++	-	-	++	-	-	-	-	
115	1694.63	688.46	Siltstone	++	+	-	++	-	+	-	-	-	-	-	-	-	
117	1694.69	688.54	Siltstone	++	-	-	+++	-	-	-	-	-	-	-	-	-	
119	1694.65	688.79	Siltstone	++	-	-	++	-	-	-	-	-	-	-	-	-	
120	1694.54	688.68	Sandstone	++	-	-	+++	-	-	-	-	-	-	-	-	-	
122B	1694.50	689.25	Siltstone	+	-	-	-	-	-	+++	-	-	-	-	-	-	
125	1694.22	688.57	Sandstone	++++	+	-	+	-	+	-	-	-	-	-	-	-	
127	1694.26	689.52	Siltstone	+	+++	-	+	-	++	++	-	-	-	-	-	-	
128	1694.32	689.39	Siltstone	+	++	-	+	-	++	++	-	+	-	-	-	-	

++++ Very abundant    +++ Abundant    ++ Common    + A little    - Not detected



Appendix 4-1 Summary of X-ray Powder Diffractometry

Sample No.	Location (Coordinate)		Rock Type	Quartz	Plagioclase	Amphibole	Sercite	Chlorite	Kaolin	Montmorillonite	Garnet	Epidote	Calcite	Hematite	Pyrite	Others	Remarks
	N	E															
130	1694.35	689.43	Siltstone	+	-	-	++	-	+++	-	-	-	-	-	-	-	
132	1694.47	689.46	Siltstone	+	+++	-	++	-	++	+	-	-	-	-	-	-	
134	1694.56	689.41	Quartz-epidote rock	+	-	-	-	-	-	++	-	+++	-	-	-	-	
143	1694.39	688.71	Siltstone	++	++	-	++	-	++	-	-	-	-	-	-	-	
144	1694.32	688.68	Granodiorite	+	++	-	+	-	++	-	-	-	-	-	-	-	
145	1694.26	688.64	Sandstone	+	-	-	+++	-	-	-	-	-	-	-	-	-	
146	1694.15	688.78	Sandstone	+	-	-	+++	-	+	-	-	-	-	-	-	-	
147	1694.33	688.85	Granodiorite	+	+++	-	+	-	++	-	-	-	-	-	-	-	
150	1694.54	688.90	Quartz porphyry	++	++	-	+	-	++	-	-	?	-	-	-	-	
151	1694.47	689.02	Epidote rock	+	-	-	-	-	-	-	+++	-	-	-	-	-	
152	1694.40	689.34	Quartz-epidote rock	++	-	++	-	-	-	-	-	+++	-	-	-	-	
153	1694.35	689.25	Quartz-epidote rock	+	-	-	-	-	-	-	-	++	-	-	-	-	
156	1694.25	689.09	Granodiorite	+	++	-	++	-	++	-	-	-	-	-	-	-	
157	1694.13	689.03	Granodiorite	+	++	-	++	-	++	-	-	-	-	-	-	-	
160	1693.63	690.14	Quartz rock	+++	-	-	+	-	-	-	-	-	-	-	-	-	
161	1693.48	690.07	Granite	++	++	-	+	-	-	-	-	-	-	-	-	-	
163	1693.56	689.87	Siltstone	+	+	-	+++	-	++	++	-	-	-	-	-	-	
165	1693.53	690.24	Granite	+++	-	-	++	-	-	-	-	-	-	-	-	-	
167	1693.62	690.30	Granodiorite	+++	-	-	++	-	-	-	-	-	-	-	-	-	
168	1693.62	690.40	Granodiorite	-	++	+++	++	-	-	-	-	++	-	-	-	-	

++++ Very abundant    +++ Abundant    ++ Common    + A little    - Not detected



Appendix 4-2 Summary of X-ray Powder Diffractometry (Drill Core)

Sample No.	Location (Coordinate)		Rock Type	Quartz	Plagioclase	Amphibole	Sericite	Chlorite	Kaolin	Montmorillonite	Garnet	Epidote	Calcite	Hematite	Pyrite	Others	Remarks
	N	E															
DDH No. MJ-1																	
23.40	1693.660	691.042	Siltstone	++	++++	++	-	-	+	+	-	++	-	-	-	**	
72.70	"	"	Bleached rhyolite	++++	-	-	-	-	-	-	-	-	-	-	-	Class	
88.40	"	"	Altered rhyolite	+	-	-	++	-	-	-	-	-	-	++	-		
102.50	"	"	Altered rhyolite	++	-	-	++	-	-	-	-	-	-	-	+++		
112.40	"	"	Quartz porphyry	+	-	-	+	++	+++	-	-	-	-	-	+		
148.50	"	"	Quartz porphyry	+	+++	-	+	++	-	-	-	++	-	-	+		
162.40	"	"	Quartz porphyry	+	+++	-	++	++	-	-	-	++	-	-	+		
231.50	"	"	Quartz porphyry	++	+	-	+++	+++	-	-	-	-	-	-	-		
255.90	"	"	Green schist	+	++	-	+	+++	-	-	-	++	-	-	-		
DDH No. MJ-2																	
26.10	1693.775	691.137	Quartz-epidote rock	++	-	-	-	-	-	++	-	+++	-	-	-	**	
37.40	"	"	Magnetite-epidote rock	+	-	-	-	-	+++	++	-	++	-	-	++		
67.60	"	"	Quartz porphyry	+++	+	-	+++	-	-	-	-	-	-	-	-		
94.90	"	"	Quartz porphyry	+	+++	-	+	-	++	+++	-	-	-	-	-		
113.40	"	"	Quartz porphyry	+	+++	-	-	-	++	++	-	++	-	-	-		
183.40	"	"	Siliceous green schist	+++	+	-	++	++	-	-	-	-	-	-	-		
244.30	"	"	Siliceous green schist	+++	+	-	+	+++	-	-	-	-	-	-	-		
261.70	"	"	Rhyolite	+++	++	-	++	-	-	-	-	-	-	-	-		
281.90	"	"	Siliceous green schist	++	+	-	++	-	++	+	-	-	-	-	-		

\*\* Drilled in the second phase, sampled in the present phase.

+++ Very abundant    ++ Abundant    + A little    - Not detected





Appendix 4-2 Summary of X-ray Powder Diffractometry (Drill Core)

Sample No.	Location (Coordinate)		Rock Type	Quartz	Plagioclase	Amphibole	Sericite	Chlorite	Kaolin	Montmorillonite	Garnet	Epidote	Calcite	Hematite Goeschite	Pyrite	Others	Remarks
	N	E															
DDH No. MJ-2 295.00	1693.775	691.137	Sheared rhyolite	+++	+	-	+	-	-	-	-	-	-	-	-	-	
DDH No. MJ-3 16.40	1693.998	690.116	Siltstone	++	-	-	?	-	++	+	-	-	-	-	-	-	**
25.00	"	"	Siltstone	+	+++	-	+	++	-	-	-	-	-	-	-	-	
39.50	"	"	Epidote rock	?	-	-	-	-	++	+++	-	+++	-	-	-	-	
61.00	"	"	Chlorite quartz schist	++	++	-	+	++	-	-	-	++	-	-	++	-	
75.50	"	"	Green schist	++	-	-	-	++	-	-	-	-	-	-	-	-	
92.00	"	"	Chlorite quartz schist	++	++	-	++	++	-	-	-	++	-	-	-	-	
109.30	"	"	Zoisite chlorite epidote sericite quartz schist	+	-	+++	-	++	-	-	-	?	-	-	-	-	
121.30	"	"	Chlorite quartz schist	++	-	-	++	+	-	-	-	-	-	-	+++	-	
155.60	"	"	Quartz porphyry	++	+++	-	+	++	-	-	-	-	-	-	-	-	
197.90	"	"	Quartz porphyry	++	+++	-	+	+	-	-	-	-	-	-	-	-	
DDH No. MJ-4 15.70	1694.023	689.958	Sandstone	++	+++	++	-	-	-	-	-	++	-	-	-	-	
35.60	"	"	Siltstone	++	++	-	+	-	+	++	-	++	-	-	-	-	
65.70	"	"	Gossan	+	-	-	-	-	++	-	-	-	-	+	-	-	
87.30	"	"	Skarn	+	-	-	-	-	-	+++	+	+++	-	-	-	-	Chart: Appendix 5(7)
91.40	"	"	Epidote rock	?	-	+++	-	-	-	++	-	+++	-	-	++	-	
112.30	"	"	Pyrite mineralized rock	+	-	-	-	-	?	-	-	-	-	-	+++	-	

\*\* Drilled in the second phase, sampled in the present phase.

+++ Very abundant    ++ Abundant    + A little    - Not detected



Appendix 4-2 Summary of X-ray Powder Diffractometry (Drill Core)

Sample No.	Location (Coordinate)		Rock Type	Quartz	Plagioclase	Amphibole	Sericite	Chlorite	Kaolin	Montmorillonite	Garnet	Epidote	Calcite	Hematite	Pyrite	Others	Remarks
	N	E															
DDH No. MJ-4																	
131.65	1694.023	689.958	Silicified rock	+++	+	-	++	-	+	-	-	-	-	-	++++		Chart: Appendix 5(8)
140.15	"	"	Massive pyrite	++	+	-	+	++	-	++	-	++	-	-	++++		Chart: Appendix 5(9)
150.00	"	"	Chlorite quartz schist	++	+	-	+	+	-	+	-	-	-	-	++++		
DDH No. MJ-5																	
10.60	1693.927	690.113	Granitic rock	+	++	+++	+	-	-	+++	-	++	-	-	++		
37.20	"	"	Granitic rock	+	+++	-	+	-	++	+	-	-	-	-	-		
57.80	"	"	Granitic rock	++	++	-	++	-	++	-	-	-	-	-	++		
83.40	"	"	Epidote rock	+	-	-	-	-	-	-	+	+++	-	-	-		
119.20	"	"	Mineralized rock	-	-	+++	-	-	-	-	+++	++	-	-	-		Chart: Appendix 5(10)
150.90	"	"	Sericite chlorite quartz schist	++	++	-	++	++	-	-	-	-	-	-	-		
DDH No. MJ-6																	
20.90	1694.009	690.848	Siltstone	+	-	-	+++	+++	-	?	-	-	-	-	-		
46.10	"	"	Altered dacite	+	+	-	+++	-	+	-	-	-	-	-	-		
71.50	"	"	Sandstone	++	+	-	++	+	-	++	-	-	-	-	-		
99.00	"	"	Chlorite quartz schist	++	++	-	++	++	-	-	-	-	-	-	-		
133.80	"	"	Sericite chlorite schist	++	+	-	+++	+++	-	+	-	++	-	-	-		
DDH No. MJ-7																	
13.80	1693.890	690.260	Sandstone	+	-	-	++	-	+++	++	-	-	-	-	-		
17.70	"	"	Sandstone	+	-	-	+	-	++	+	-	-	-	-	-		

++++ Very abundant    +++ Abundant    ++ Abundant    + A little    - Not detected



Appendix 4-2 Summary of X-ray Powder Diffractometry (Drill Core)

Sample No.	Location (Coordinate)		Rock Type	Quartz	Plagioclase	Amphibole	Sericite	Chlorite	Kaolin	Montmorillonite	Garnet	Epidote	Calcite	Hematite Gothite	Pyrite	Others	Remarks
	N	E															
DDH No. MJ-7 30.60	1693.890	690.260	Sandstone	+	-	-	+++	-	+++	-	-	-	-	-	-		Chart: Appendix 5(12)
61.90	"	"	Siltstone	++	?	-	++	+++	-	-	-	++	-	-	-		
82.90	"	"	Massive pyrite	+	-	-	-	-	-	-	-	-	-	-	?		
117.60	"	"	Granitic rock	++	-	-	+	-	-	-	-	-	-	-	+++		
127.00	"	"	Garnet skarn	+	-	+++	-	-	-	-	+++	-	-	-	?		
155.30	"	"	Chlorite quartz schist	+	+	-	+	-	++	-	-	++	-	-	-		
192.50	"	"	Magnetite mineralized rock	++	-	-	-	+++	-	-	-	-	-	-	+++		
223.90	"	"	Magnetite mineralized rock	++	++	-	+	+++	-	-	-	-	-	-	-		
283.20	"	"	Green schist	+++	+	-	++	+++	-	-	-	-	-	-	-		
DDH No. MJ-8 11.60	1694.198	690.400	Siltstone	++	-	-	+++	-	-	-	-	-	-	-	-		Chart: Appendix 5(13)
68.00	"	"	Sandstone	++	-	-	+++	-	++	+++	-	-	-	-	-		
101.00	"	"	Magnetite mineralized rock	+	+++	-	-	-	+	+++	-	-	-	-	+		
126.50	"	"	Sandstone	+	-	-	+++	+++	-	+	-	-	-	-	-		
133.30	"	"	Porphyrite	+	-	-	-	-	+++	+++	-	++	-	-	-		
139.70	"	"	Quartz porphyry	++	+++	-	+	-	+	++	-	-	-	-	-		
147.80	"	"	Green schist	+++	+	-	+	-	-	++	-	-	-	-	-		
DDH No. MJ-9 26.70	1693.511	691.075	Quartz porphyry	++	++	-	+	-	++	-	-	++	-	-	-		

++++ Very abundant    +++ Abundant    ++ Common    + A little    - Not detected

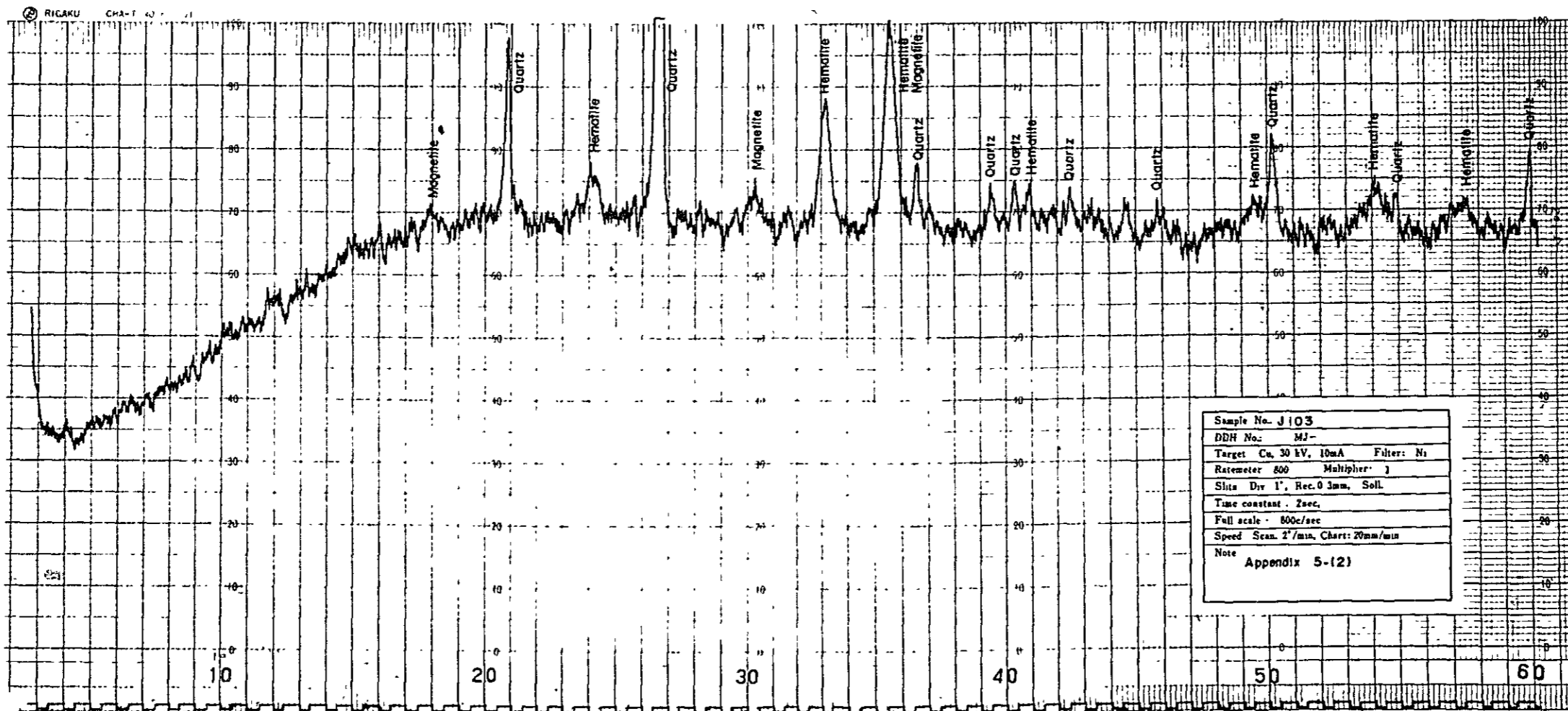
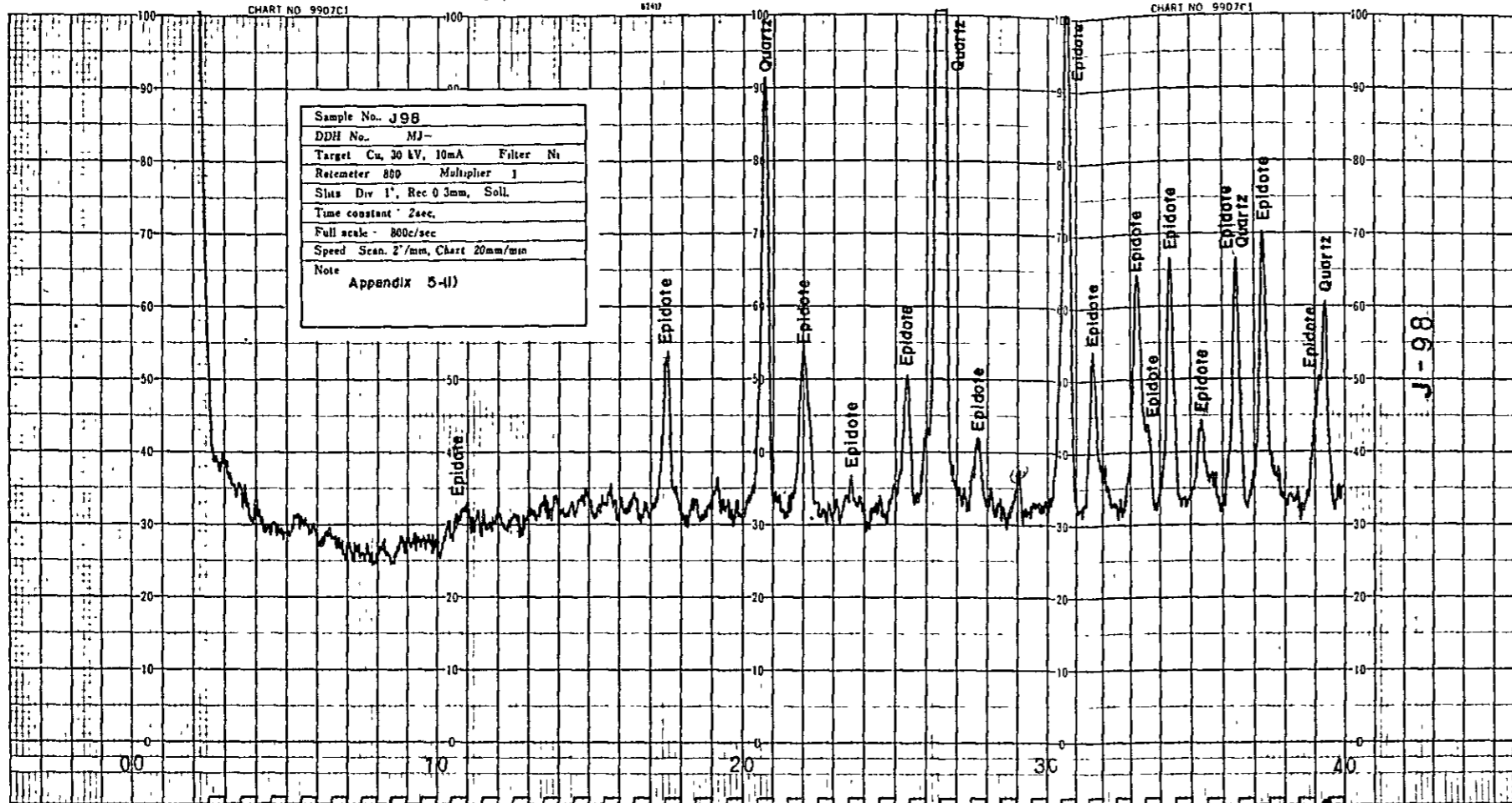


Appendix 4-2 Summary of X-ray Powder Diffractometry (Drill Core)

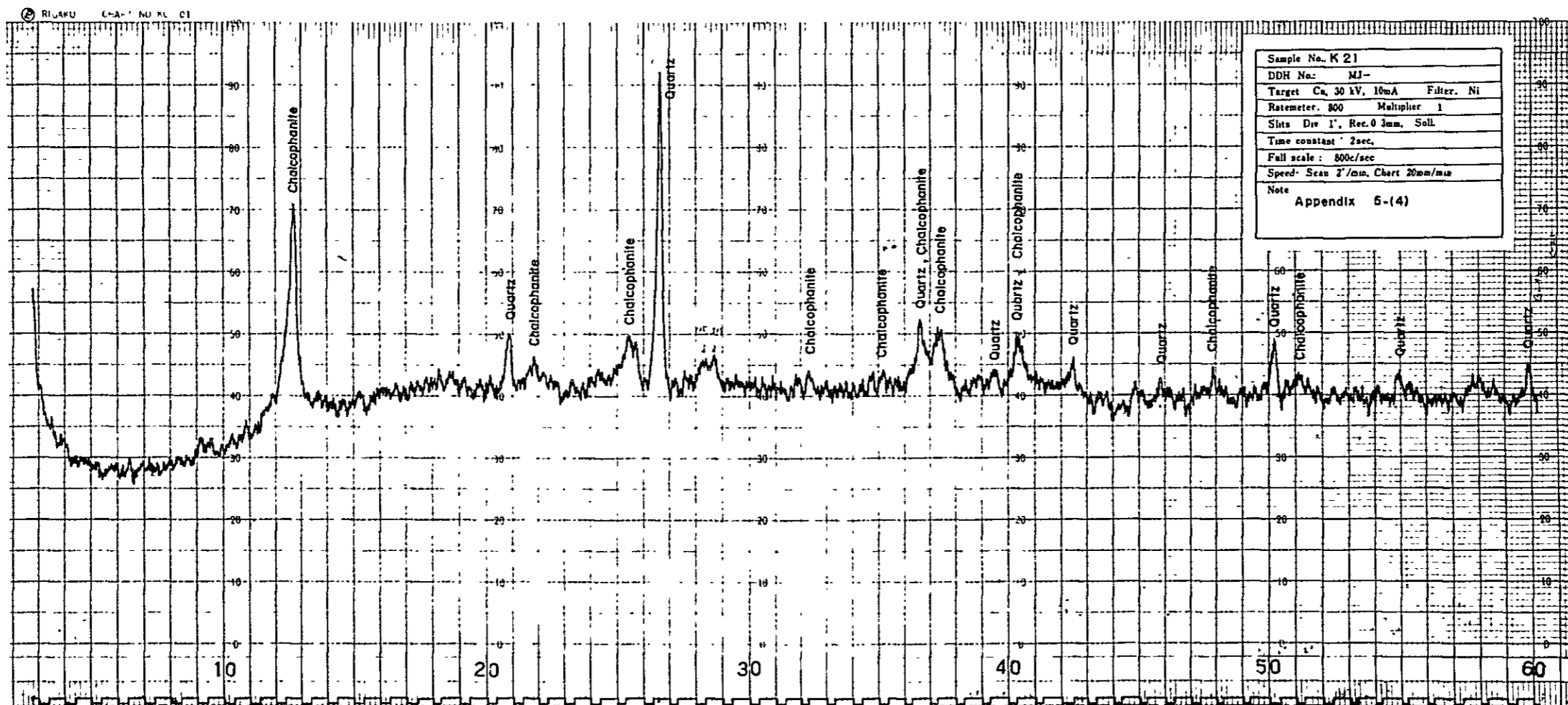
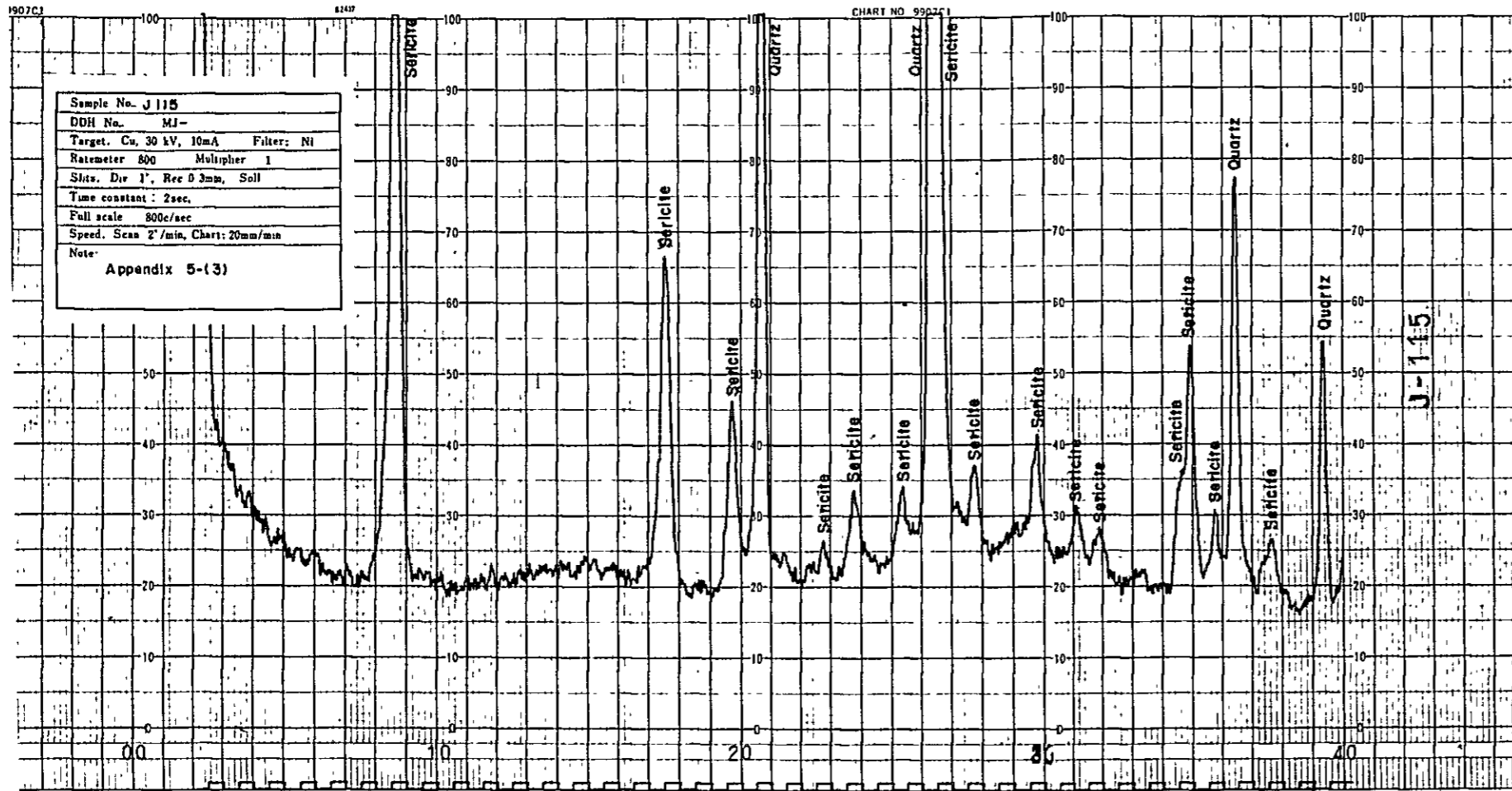
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	N	E															
DDH No. MJ-9 56.50	1693.511	691.075	Siltstone	++	+	-	++	-	+++	+++	-	-	-	-	-		
77.40	"	"	Siltstone	+++	++	-	++	+++	-	+	-	-	-	-	-		
106.00	"	"	Epidote rock	?	-	-	+	+++	-	-	+	++	-	-	++		
143.50	"	"	Sandstone	++	+++	-	+	+	-	-	-	-	-	-	+		
DDH No. MJ-10 7.10	1694.175	690.135	Siltstone	+	-	-	-	-	-	+++	-	-	-	-	-		
55.10	"	"	Massive pyrite	+	-	-	-	-	-	-	-	-	-	-	++++		
72.70	"	"	Quartz porphyry	++	-	-	++	-	+++	-	-	-	-	-	+		
86.80	"	"	Quartz porphyry	++	++	-	++	+++	-	-	-	-	-	-	-		
126.50	"	"	Granitic rock	+	+	-	++	-	-	-	-	?	-	-	+		
141.90	"	"	Quartz porphyry	++	+++	-	+	-	+	-	-	-	-	-	-		

++++ Very abundant    +++ Abundant    ++ Common    + A little    - Not detected

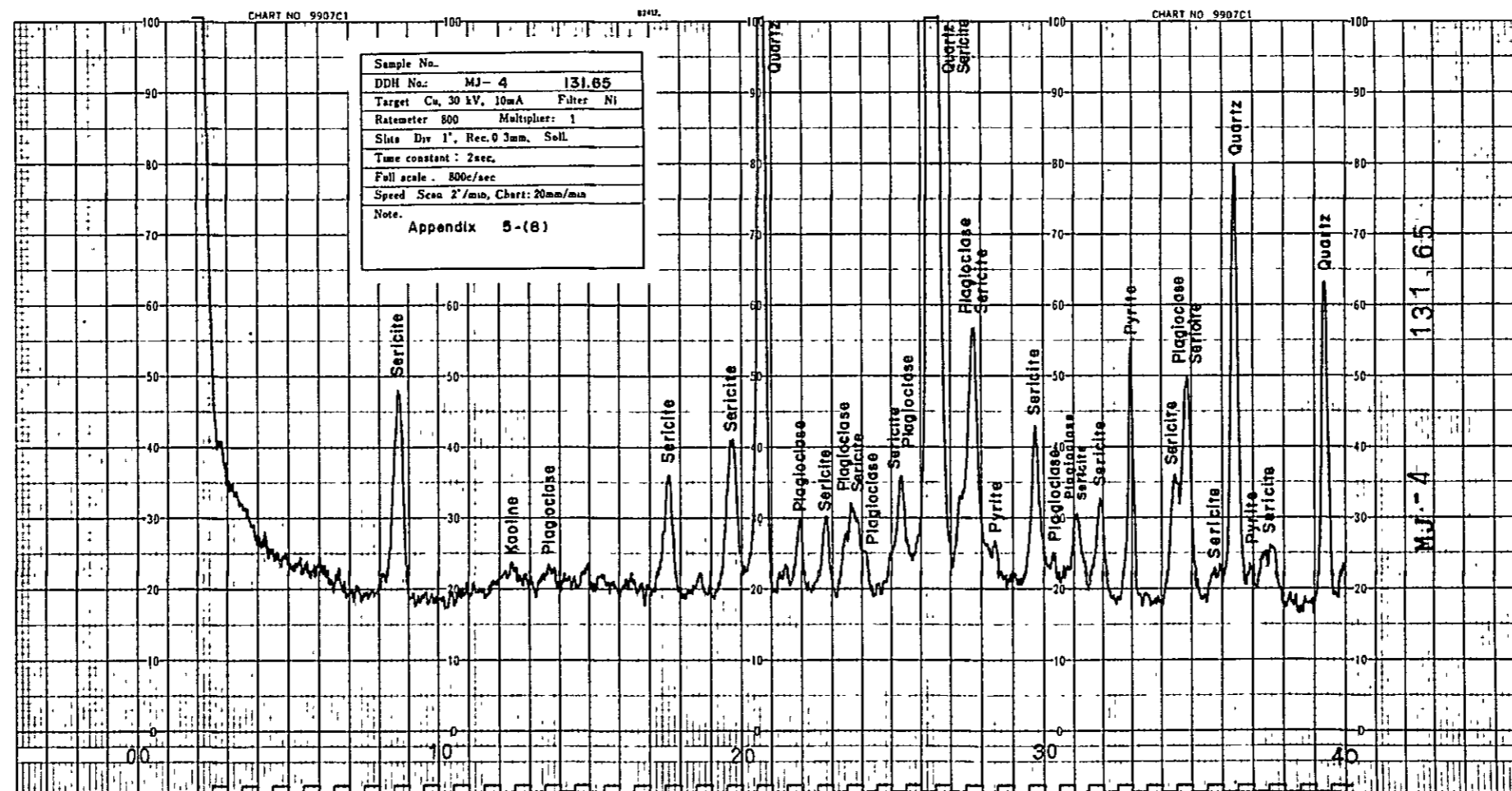
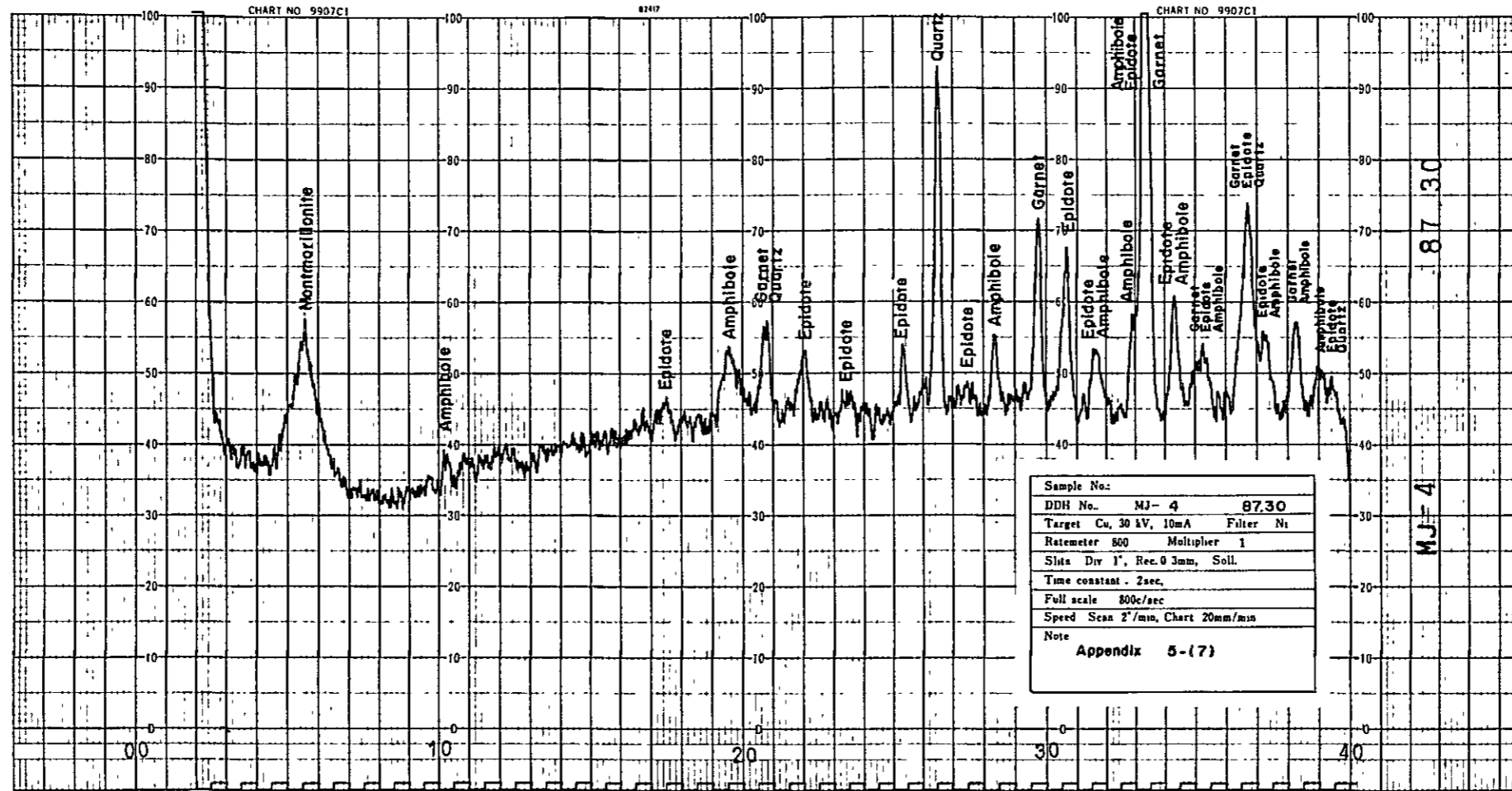
# Appendix 5 X-RAY DIFFRACTOMETRY CHARTS

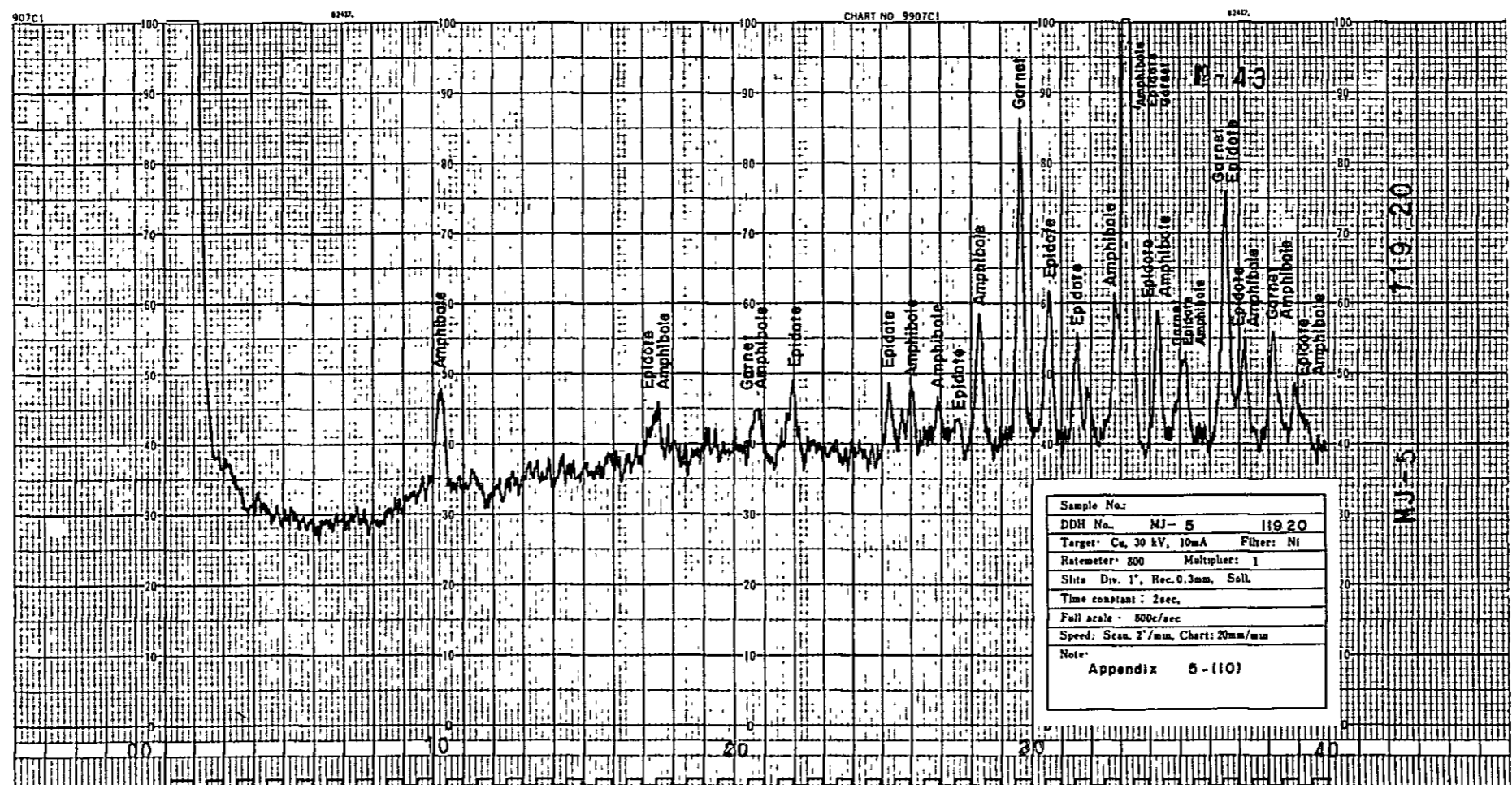
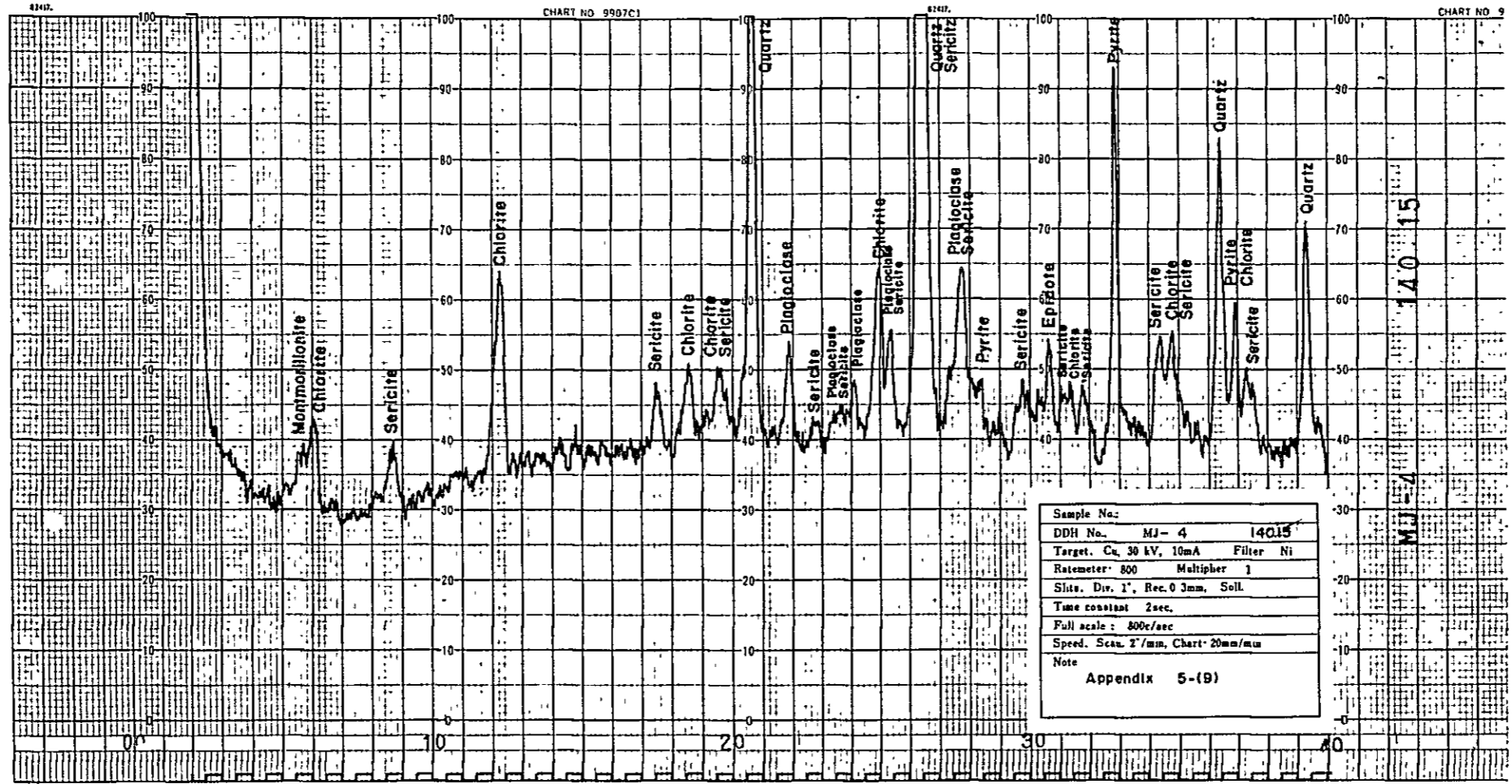


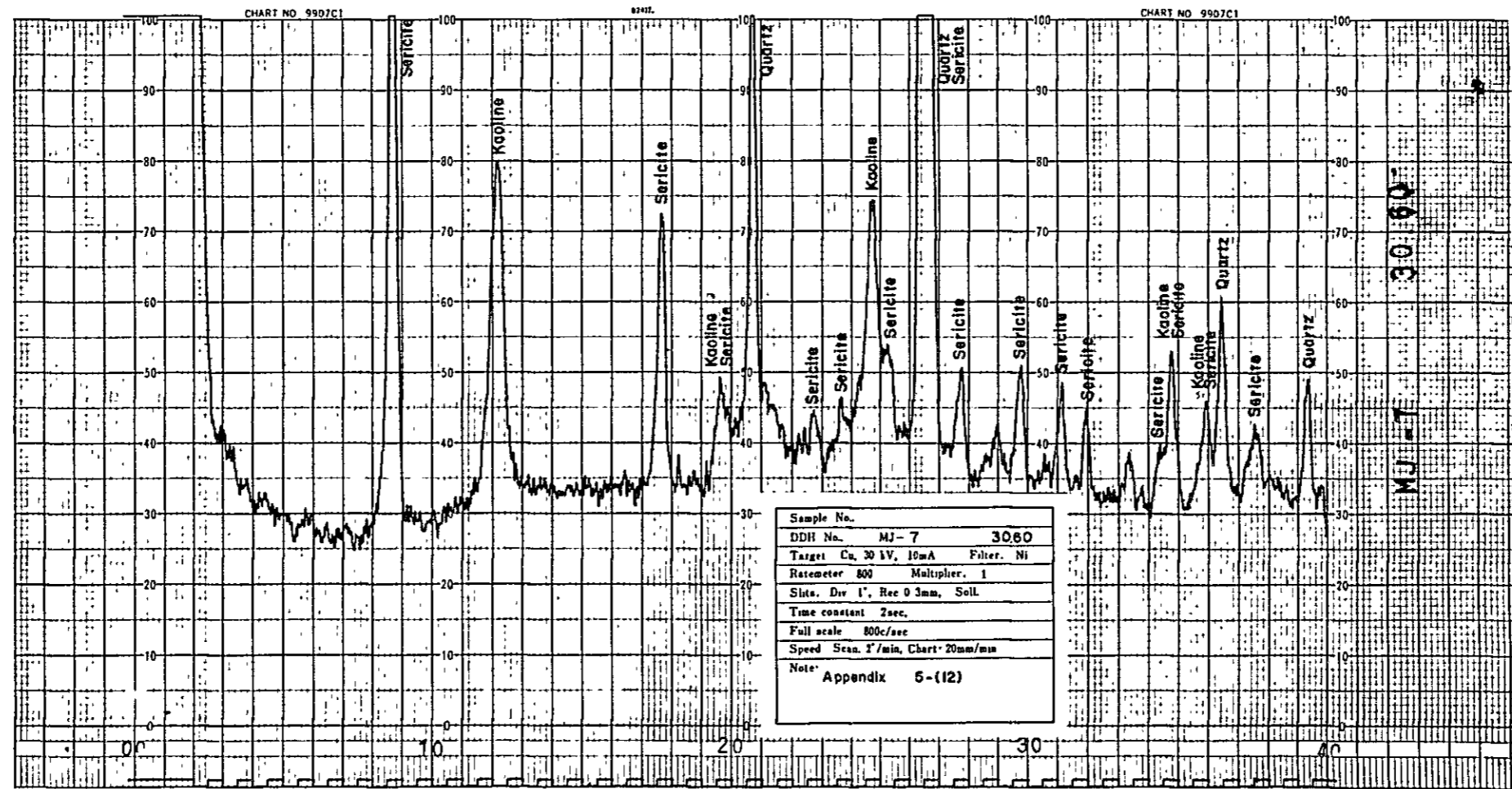
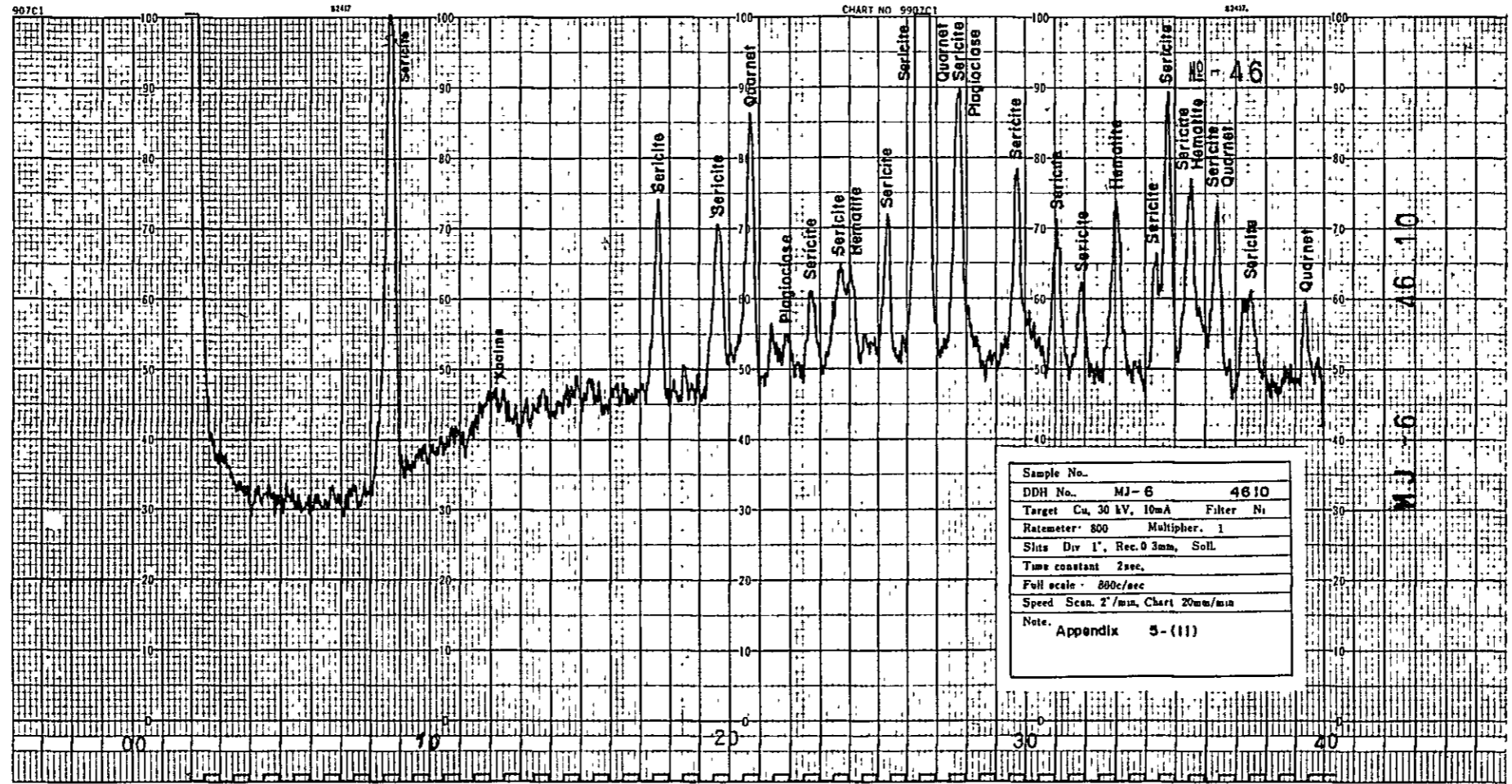


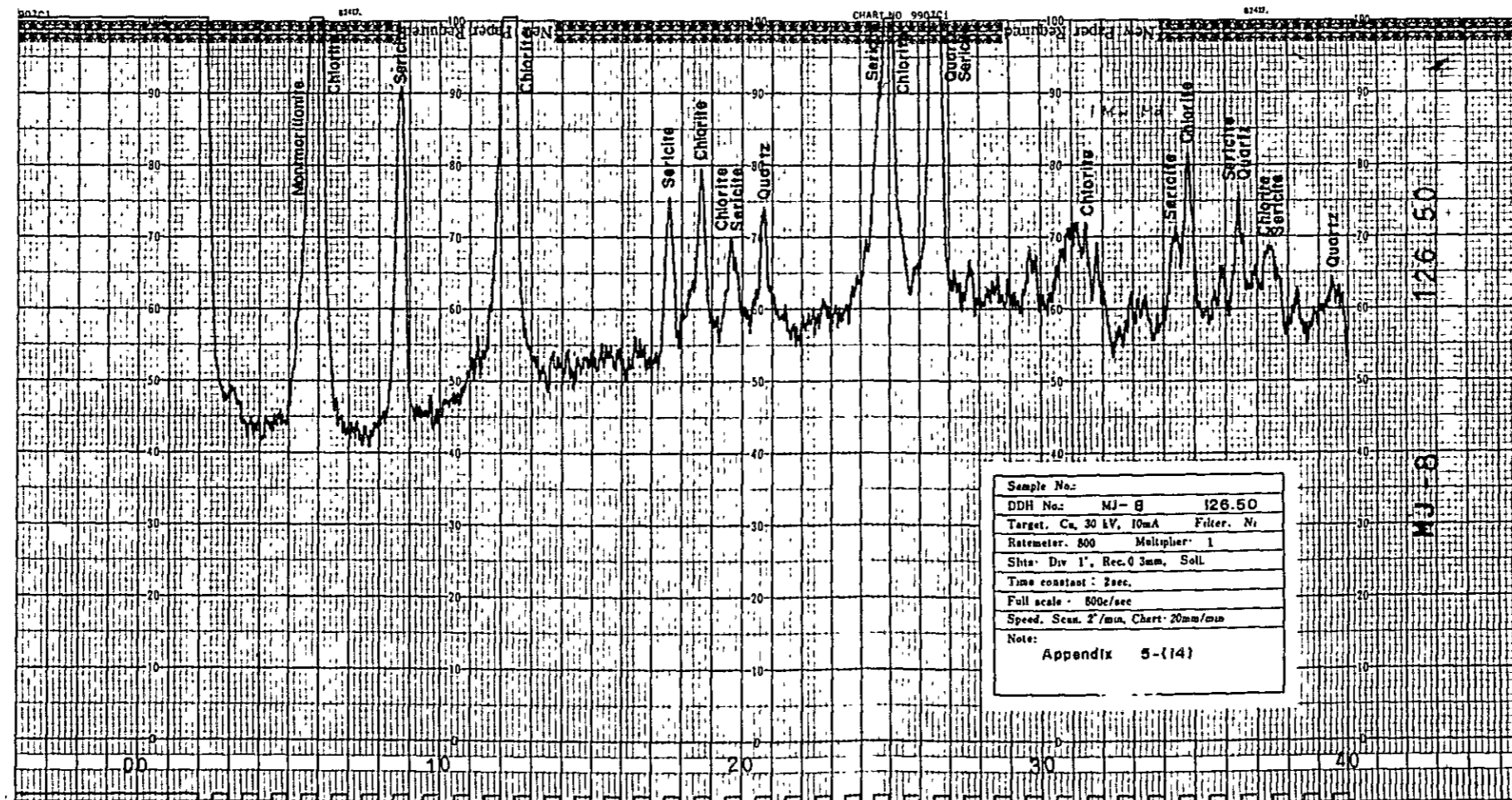
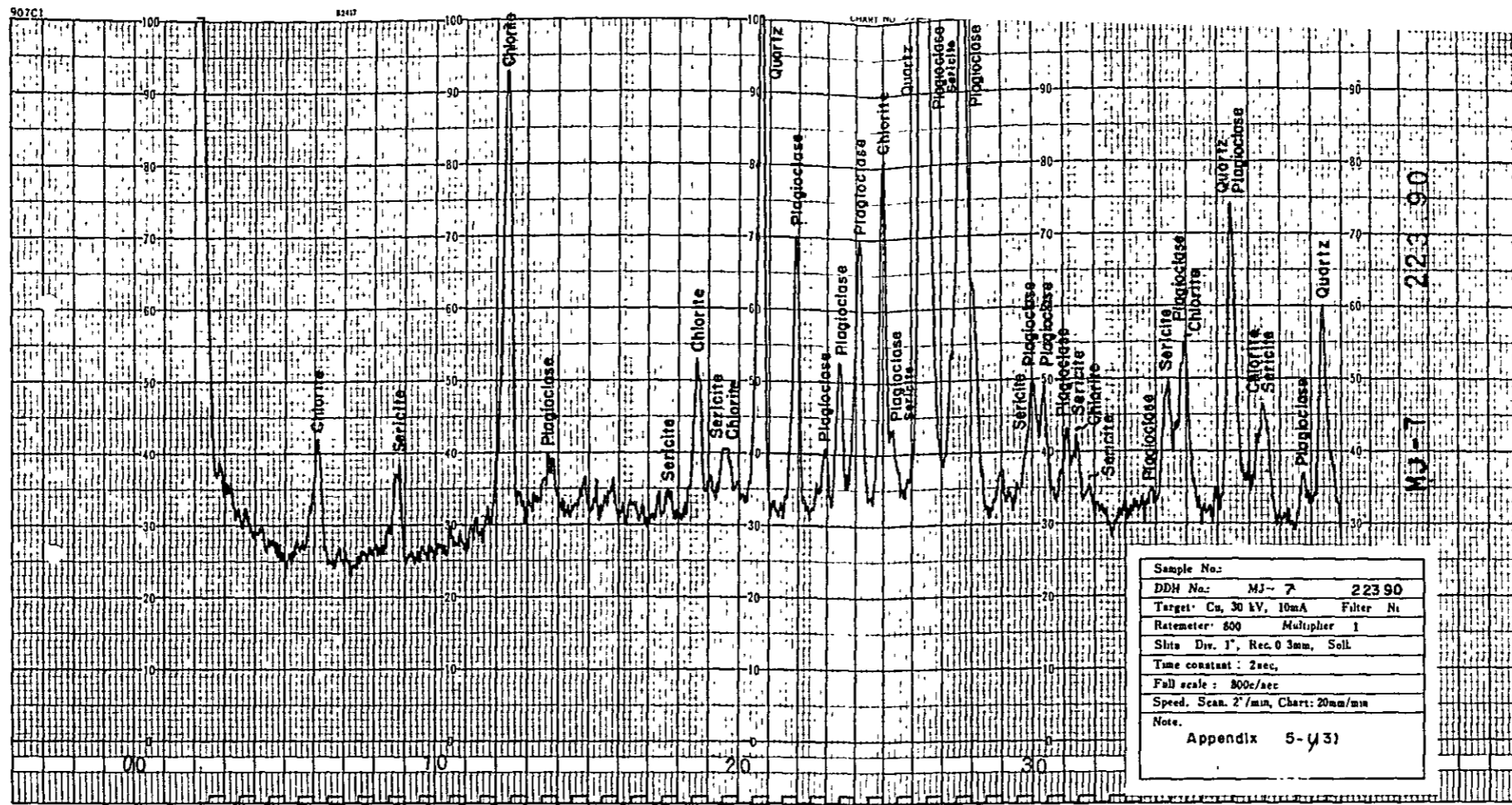














Appendix 6-1 Chemical Analysis of Mineralized Samples

Sample No.	Location (Coordinate)		Occurrence	Au g/t	Ag g/t	Cu %	Pb %	Zn %	S %	Fe %	Mn %	Remarks
	N	E										
J 6	1693.87	689.78	Massive limonite	0	3	0.12	0.01	0.04		46.11	0.10	
12	1694.19	689.39	Limonite gossan	-	1	0.02	0.01	0.08	0.19	25.26	0.09	
28	1695.15	688.40	do	-	3	0.04	0.06	0.08	0.16	35.95	0.23	
46	1694.42	687.92	do	-	-	-	-	-	NAV	-	-	
47	1693.43	691.05	Limonite-hematite gossan	-	2	0.01	Tr	0.01	NAV	15.18	0.01	
48	1693.34	690.91	Limonite gossan	-	1	0.01	Tr	0.04	0.15	23.93	0.09	
50	1693.40	691.01	Magnetite-hematite mineralized rock	0	1	Tr	Tr	0.01	0.01	7.62	0.02	
51	1693.45	691.10	Limonite gossan	-	1	0.02	Tr	0.01	0.09	30.77	0.12	Polished section: Appendix 3-1
52	1693.50	691.15	do	-	1	0.01	Tr	0.12	NAV	32.88	0.06	
53	1693.55	691.25	do	-	2	0.10	0.04	0.18	0.11	38.99	0.72	
54	1693.47	691.29	do	-	3	0.05	0.01	0.08	0.07	17.84	1.32	
63	1693.82	691.52	Magnetite mineralized rock	0	1	0.01	Tr	0.01	0.10	29.72	0.12	
64	1693.84	691.46	Magnetite-hematite mineralized rock	0	1	0.01	Tr	Tr	0.11	17.45	0.06	
66	1693.80	691.19	Limonite gossan	-	4	0.08	0.01	0.02	0.24	26.09	0.42	
69	1693.63	691.30	do	-	1	0.01	0.01	0.13	NAV	9.90	0.54	
71	1693.35	691.23	do	-	2	0.01	Tr	0.01	0.12	32.24	0.06	
72	1693.27	691.11	do	-	1	Tr	Tr	0.01	0.04	14.18	0.02	
74	1693.04	691.62	Limonite-hematite gossan	-	2	0.04	0.03	0.01	0.21	41.89	0.33	
97	1693.58	691.12	Hematite-limonite gossan	-	3	0.10	0.02	0.25	0.10	20.49	2.41	
103	1693.85	691.00	Massive magnetite and hematite	-	1	0.01	Tr	0.01	0.02	40.16	0.18	Polished section: Appendix 3-1

- : Not assayed. NAV : Not Available.





Appendix 6-1 Chemical Analysis of Mineralized Samples

Sample No.	Location (Coordinate)		Occurrence	Au g/t	Ag g/t	Cu %	Pb %	Zn %	S %	Fe %	Mn %	Remarks
	N	E										
J 106	1693.84	690.84	Limonite gossan	4.5	1	0.04	Tr	0.13	0.00	41.50	0.17	
108	1693.91	690.80	Limonite stain in siltstone	-	1	0.03	Tr	0.01	0.22	26.18	0.03	
112	1693.75	690.64	Granitic rock with limonite stain	-	1	0.08	Tr	0.05	0.28	48.18	0.12	
141	1694.11	689.98	Limonite gossan	-	2	0.02	Tr	0.03	NAV	44.86	0.88	
142	1694.16	689.97	do	-	2	0.03	Tr	0.03	NAV	25.70	0.29	
143	1694.21	689.94	do	-	1	0.04	0.01	0.04	NAV	41.70	0.10	
144	1694.24	689.79	do	-	5	0.01	Tr	0.01	NAV	11.76	0.41	
146	1694.18	689.63	do	-	1	0.01	Tr	0.09	NAV	26.21	0.79	
147	1694.22	689.61	do	-	1	0.04	0.02	0.11	NAV	35.93	0.14	
148	1694.16	689.78	do	-	2	0.05	Tr	0.75	NAV	34.18	0.00	
149	1694.15	689.55	do	-	1	0.03	Tr	1.15	NAV	40.90	0.17	
150	1694.09	689.58	do	-	2	0.01	0.01	0.15	NAV	43.07	0.08	
151	1694.04	689.59	do	-	5	0.01	Tr	0.01	NAV	16.91	0.10	
152	1694.04	689.53	do	-	1	0.05	0.03	0.17	NAV	28.44	0.09	
153	1694.01	689.48	do	-	2	0.10	Tr	0.04	NAV	32.15	0.44	
154	1693.95	689.51	do	-	4	0.10	Tr	0.11	NAV	35.14	0.14	
159	1693.84	689.71	do	-	2	0.08	Tr	0.09	NAV	35.83	0.05	
160	1693.82	689.65	do	-	1	0.01	Tr	Tr	NAV	55.86	0.08	
161	1693.86	689.60	do	-	1	0.01	Tr	0.01	NAV	56.45	0.15	
162	1693.98	689.60	do	-	6	0.04	0.01	0.01	NAV	34.97	0.02	



Appendix 6-1 Chemical Analysis of Mineralized Samples

Sample No.	Location (Coordinate)		Occurrence	Au g/t	Ag g/t	Cu %	Pb %	Zn %	S %	Fe %	Mn %	Remarks
	N	E										
J 163	1693.94	689.65	Limonite gossan	-	2	0.05	0.01	0.02	NAV	33.90	0.14	
164	1693.89	689.66	do	-	3	0.04	Tr	0.03	NAV	38.60	0.05	
165	1693.94	689.75	do	-	6	0.01	0.09	0.02	NAV	30.79	0.47	
166	1693.91	689.88	do	-	2	0.05	0.02	0.02	NAV	51.42	0.00	
167	1693.93	689.94	do	-	1	0.01	Tr	Tr	NAV	16.39	0.08	
K 16	1693.97	690.07	do	-	1	0.04	Tr	0.04	0.22	24.33	0.09	
21	1694.19	690.04	Manganese oxide ore	-	15	0.05	0.24	3.75	0.08	42.03	37.91	
23	1694.33	690.85	Limonite gossan	-	3	0.13	0.01	0.09			3.03	
43	1694.08	690.55	Limonite gossan	-	1	0.05	0.01	0.03	0.18	26.26	0.12	
44	1693.99	690.40	do	0	2	0.06	0.01	0.02	0.19	48.98	0.12	
46	1693.82	690.40	do	-	3	0.10	0.01	Tr	0.07	33.61	0.09	
66	1695.06	687.71	Limonite stain in siltstone	-	1	0.01	Tr	0.01	0.42	32.10	0.12	
70	1695.09	687.61	Limonite gossan	-	1	0.01	0.01	0.08	0.48	37.31	0.09	
81	1693.25	691.58	do	-	10	0.06	0.10	0.15	0.15	26.74	1.74	
86	1693.52	691.80	do	-	2	0.01	Tr	Tr	0.18	13.79	0.12	
93	1693.09	691.66	Manganese oxide	-	6	0.04	0.02	0.30	0.20	3.79	4.35	
107	1693.00	691.98	Limonite gossan	-	2	0.01	0.06	0.13	0.23	17.12	1.18	
108	1692.96	691.91	do	-	2	0.01	0.05	0.14	0.09	23.74	1.22	
122	1692.54	692.35	Pyrite dissemination in skarn	-	1	0.01	Tr	0.01	0.27	9.77	0.12	
123B	1692.54	692.35	Pyrite dissemination in quartzose rock	-	2	0.01	Tr	Tr	0.21	8.54	0.22	
132	1692.51	692.01	Massive limonite and hematite	-	2	0.02	0.01	0.04	0.08	24.71	0.09	



Appendix 6-1 Chemical Analysis of Mineralized Samples

Sample No.	Location (Coordinate)		Occurrence	Au g/t	Ag g/t	Cu %	Pb %	Zn %	S %	Fe %	Mn %	Remarks
	N	E										
K 133	1692.57	691.98	Limonite gossan	-	3	0.02	0.01	0.05	0.16	28.13	0.01	Polished section: Appendix 3-1  Malachite film
135	1692.61	692.08	do	-	6	0.06	0.01	0.04	0.10	42.29	0.17	
159	1695.05	687.78	Skarn with pyrite and magnetite	0	1	0.01	Tr	0.01	4.00	16.92	0.06	
165	1695.29	687.64	Limonite gossan	-	3	0.01	Tr	0.16	0.22	32.82	0.12	
167	1695.30	687.60	do	-	1	Tr	Tr	0.04	0.00	5.70	1.16	
173	1692.29	692.75	do	-	1	0.11	0.01	0.09	0.21	31.28	0.12	
180	1692.75	691.82	do	-	2	0.08	0.01	0.03	0.06	41.15	0.17	
183	1692.93	691.57	do	-	2	0.06	0.02	0.02	0.20	49.81	0.17	
184	1693.24	691.26	do	-	3	0.01	Tr	0.01	NAV	11.08	0.89	
185	1693.27	691.28	do	-	1	Tr	0.01	0.02	NAV	57.41	0.80	
187	1693.33	691.31	do	-	1	0.04	0.02	0.07	NAV	35.36	0.95	
190	1693.47	691.39	Epidote-quartz rock	-	2	1.08	Tr	0.05	NAV	8.02	0.00	
192	1693.47	691.39	Manganese oxide ore	-	2	1.20	Tr	1.20	NAV	15.28	2.50	
193	1693.47	691.39	Siltstone	-	1	1.20	Tr	0.03	NAV	9.14	0.03	
194	1693.47	691.39	Malachite stain in altered rock	-	5	1.04	Tr	0.03	NAV	8.57	0.07	
198	1693.27	691.45	Limonite gossan	-	6	0.20	0.02	0.11	NAV	44.27	0.87	
200	1693.24	691.48	do	-	2	0.11	0.01	0.05	NAV	36.10	0.02	
201	1693.20	691.49	do	-	1	0.01	0.09	0.02	NAV	9.89	0.92	
204	1693.23	691.71	do	-	2	0.01	Tr	0.05	NAV	63.87	0.92	
205	1693.14	691.69	do	-	1	0.12	0.02	0.25	NAV	53.65	0.89	

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Appendix 6-1 Chemical Analysis of Mineralized Samples

Sample No.	Location (Coordinate)		Occurrence	Au g/t	Ag g/t	Cu %	Pb %	Zn %	S %	Fe %	Mn %	Remarks
	N	E										
K 206	1693.03	691.75	Limonite gossan	-	1	0.08	0.01	0.20	NAV	50.42	0.02	
207	1692.95	691.67	do	-	3	0.10	0.03	0.06	NAV	46.50	7.03	
208	1692.86	691.71	do	-	1	0.13	0.04	0.04	NAV	33.91	0.38	
209	1692.94	691.77	do	-	1	0.11	0.01	0.02	NAV	45.71	0.08	
210	1692.78	692.01	do	-	-1	0.05	0.02	0.04	NAV	52.19	1.08	
212	1692.74	692.04	do	-	4	0.04	0.01	0.06	NAV	19.50	0.12	
214	1692.66	692.17	Pyrite dissemination in quartzose rock	-	7	0.03	Tr	0.04	NAV	16.55	0.97	
216	1692.80	692.18	Pyrite dissemination in skarn	-	-1	0.01	Tr	0.02	NAV	6.13	1.84	
220	1692.92	692.19	Massive limonite	-	1	0.04	0.06	0.04	NAV	45.59	0.86	
222	1692.88	691.95	Limonite gossan	-	1	0.01	Tr	0.03	NAV	47.93	0.61	
EK 51	1692.78	692.01	Massive magnetite	0	2	0.01	Tr	0.11	NAV	55.15		
S 5	1694.50	689.62	Limonite gossan	-	2	0.01	Tr	0.01	0.21	16.79	0.06	
14	1694.22	689.03	do	-	2	0.02	Tr	0.03	0.18	36.98	0.06	
24	1694.96	688.90	Pyrite dissemination in quartz porphyry	0	1	0.01	Tr	Tr	0.14	8.36	0.09	
26	1694.91	688.89	Limonite gossan	-	2	0.34	Tr	0.03	0.31	41.16	0.12	
28A	1694.68	688.95	Magnetite dissemination in porphyritic rock	0	2	0.04	Tr	0.28	0.51	23.60	0.17	
28B	1694.68	688.95	Pyrite dissemination in skarn	0	2	0.01	Tr	0.15	4.02	24.70	0.64	
28C	1694.68	688.95	Garnet bearing epidote actinolite rock	-	1	0.01	Tr	0.09	0.09	6.00	0.34	
30	1694.55	689.10	Limonite gossan	-	1	0.12	0.01	0.06	0.16	49.52	0.12	
31	1694.39	688.90	do	-	2	0.06	Tr	0.03	0.22	39.42	0.17	





Appendix 6-1 Chemical Analysis of Mineralized Samples

Sample No.	Location (Coordinate)		Occurrence	Au g/t	Ag g/t	Cu %	Pb %	Zn %	S %	Fe %	Mn %	Remarks
	N	E										
S 35	1694.68	688.65	Limonite gossan	-	2	0.03	Tr	0.15	0.22	43.28	0.06	
37	1693.49	690.78	do	-	13	0.02	Tr	0.01	0.62	13.95	0.09	
42	1693.95	691.28	Magnetite dissemination in epidote skarn	0	1	Tr	Tr	0.01	0.12	28.63	0.20	Polished section: Appendix 3-1
52	1694.22	690.80	Limonite gossan	-	1	0.01	Tr	0.01	0.46	23.50	0.12	
54	1694.14	690.79	Limonite gossan in quartz porphyry	0	2	0.02	Tr	0.02	0.20	39.21	0.06	
56	1693.95	690.74	Magnetite dissemination in altered sandstone	0	5	0.05	0.04	0.55	0.20	58.61	0.17	
91	1693.85	690.47	Limonite gossan	-	1	0.05	Tr	Tr	0.19	24.56	0.12	
93	1693.94	690.31	do	-	2	0.10	Tr	0.02	0.15	41.56	0.12	
96A	1694.08	690.47	do	-	2	0.01	0.02	0.04	0.11	5.35	0.28	
96B	1694.08	690.47	do	-	3	0.02	Tr	0.08	0.79	10.47	0.17	
107	1693.93	689.60	Magnetite dissemination in altered rock	-	1	0.01	Tr	0.03	0.17	62.48	0.09	
123	1694.54	689.24	Limonite gossan	-	2	0.08	0.06	1.00	0.13	47.10	0.17	Polished section: Appendix 3-1
129	1694.35	689.37	do	-	1	0.01	Tr	0.05	NAV	19.14	0.10	
131	1694.39	689.44	do	-	27	0.01	Tr	0.01	NAV	34.53	0.06	
133	1694.51	689.46	do	-	2	0.04	Tr	0.09	NAV	25.79	0.02	
135	1694.58	689.35	do	-	2	0.02	Tr	0.05	NAV	27.74	0.11	
136	1694.59	689.30	do	-	2	0.04	Tr	0.13	NAV	28.23	0.07	
137	1694.66	689.20	Manganese oxide in altered rock	-	7	0.10	0.01	1.70	NAV	10.34	3.53	
138	1694.65	689.03	Limonite gossan	-	1	0.08	0.02	0.08	NAV	41.96	0.09	
139	1694.65	688.91	do	-	1	0.09	Tr	0.03	NAV	41.23	0.03	



Appendix 6-1 Chemical Analysis of Mineralized Samples

Sample No.	Location (Coordinate)		Occurrence	Au g/t	Ag g/t	Cu %	Pb %	Zn %	S %	Fe %	Mn %	Remarks
	N	E										
S 140	1694.66	688.84	Limonite gossan	-	2	0.05	Tr	0.05	NAV	34.15	0.02	
141	1694.66	688.73	do	-	1	0.02	Tr	0.05	NAV	27.47	0.17	
142	1694.65	688.52	do	-	2	0.08	Tr	0.01	NAV	44.10	0.09	
148	1694.45	688.84	do	-	-1	0.01	Tr	0.04	NAV	9.26	0.13	
149	1694.49	688.90	do	-	-1	0.04	Tr	0.03	NAV	27.96	0.05	
154	1694.31	689.17	do	-	1	0.01	Tr	0.10	NAV	44.64	0.00	
155	1694.28	689.04	do	-	1	0.05	Tr	0.01	NAV	32.98	0.01	
158	1694.11	689.20	do	-	1	0.01	Tr	0.02	NAV	6.84	0.16	
159	1694.22	689.33	do	-	3	0.12	0.01	0.02	NAV	42.54	0.02	

