

References

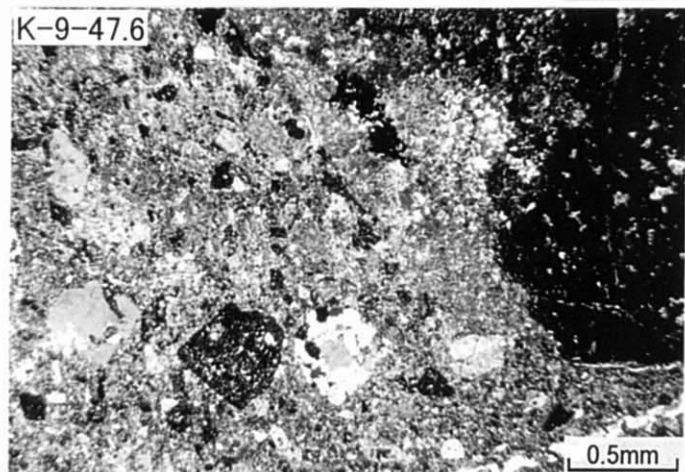
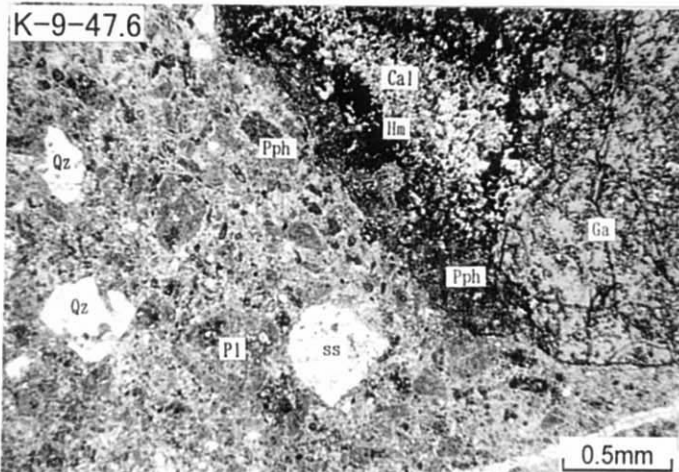
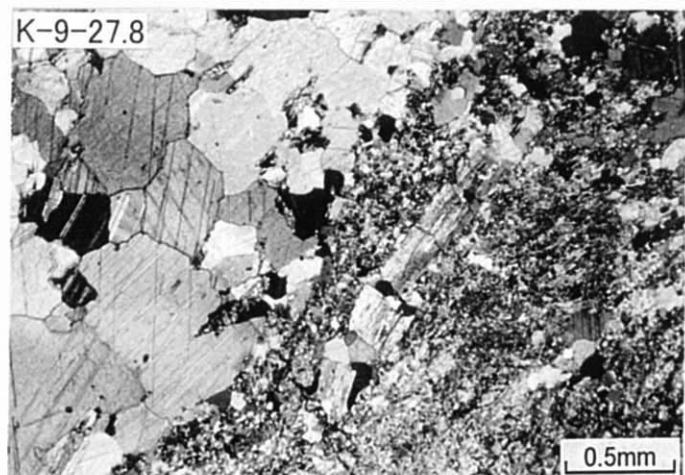
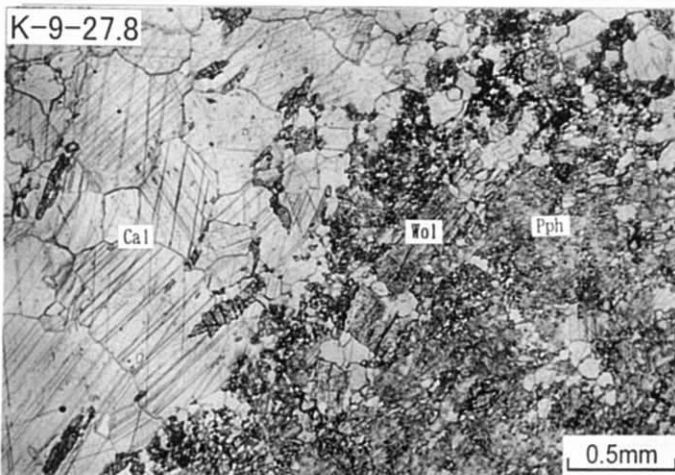
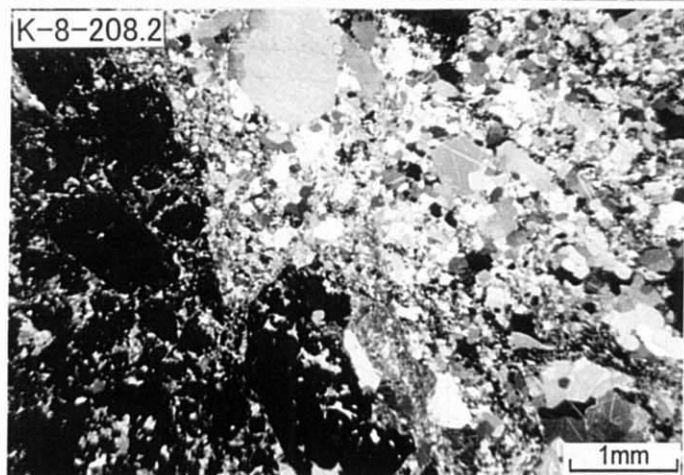
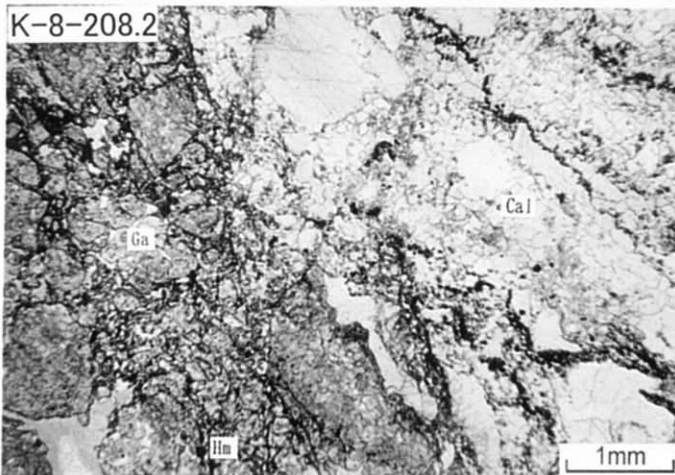
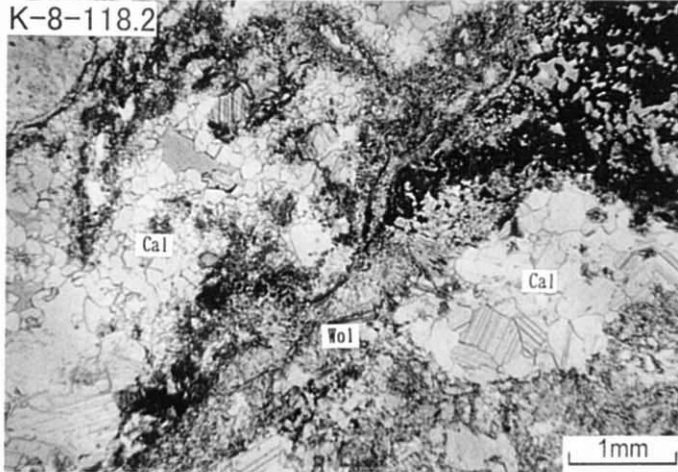
1. Tectonic Map of the Sandalash-Chatkal Ore Region, 1977, scale 1:100,000
2. Geological & Geophysical Sections, Kichi-Sandyk District, 1977, scale 1:5,000
3. Map of Schemes Pk, drawn upon the Data of the Combined Profiling Method (CPM), Kichi-Sandyk District, 1977, scale 1:5,000
4. Map of the Results of Geophysical Survey, Projected on the Schematic Geological Basis, Kichi-Sandyk District, 1977, scale 1:5,000
5. Map of the Abnormal Magnetic Field (Isoline Z), Kichi-Sandyk District, 1977, scale 1:5,000
6. Scheme of Sampling on the Kichi-Sandyk Gold Deposit, Centralny District (No.1), 1977, scale 1:5,000
7. Scheme of Sampling on the Kichi-Sandyk Gold Deposit, Centralny District (No.2), 1977, scale 1:5,000
8. Scheme of Sampling on the Kichi-Sandyk Gold Deposit, Centralny District, 1977, scale 1:200
9. Schematic Geological Map of the Kichi-Sandyk Gold Deposit Centralny District, 1977, scale 1:1,000
10. Report on Prospecting-revision Works on Sandalash-Chatkal Ore District, 1973 – 1976 (Kichi-Sandyk Geological Party), Volume-1, Text of Report

Appendices

Appendix 2 (1) Photomicrographs of the Thin Sections

Plane polarized light

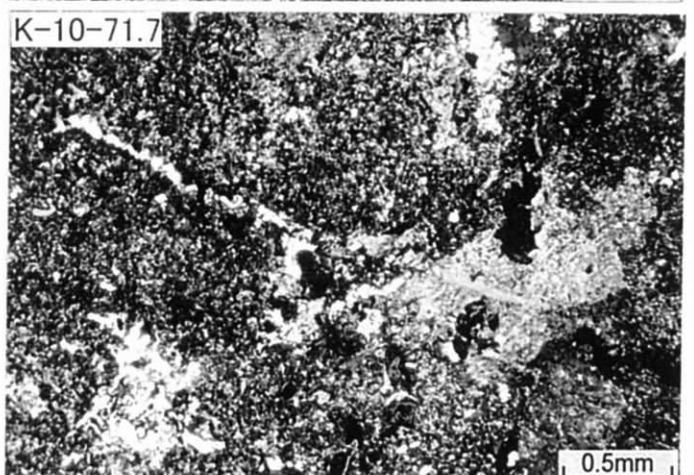
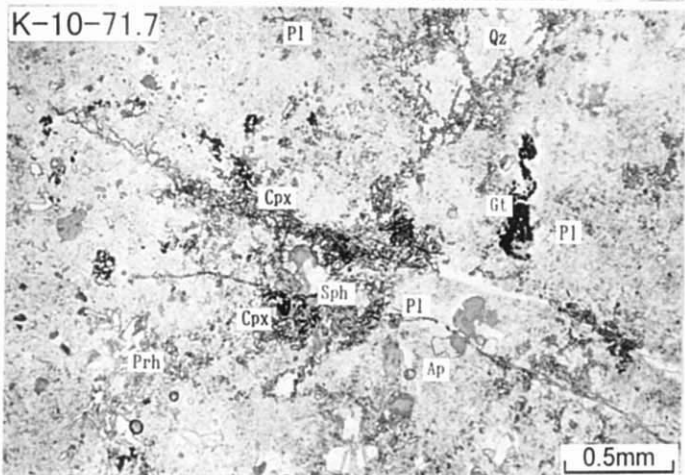
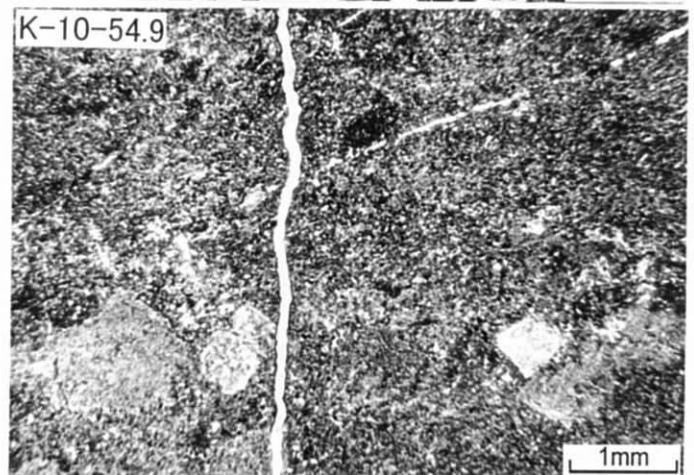
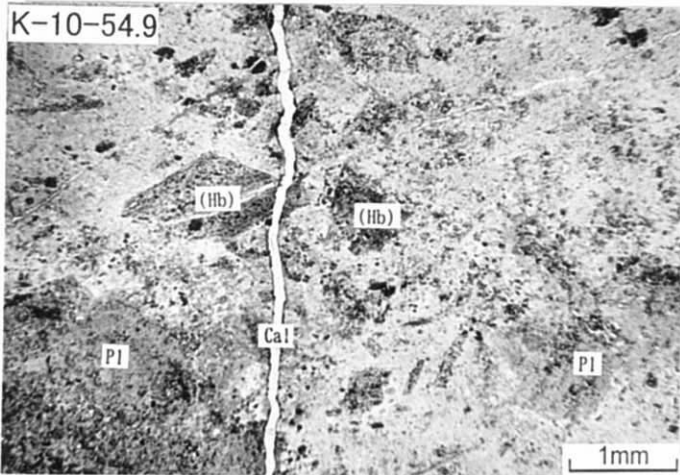
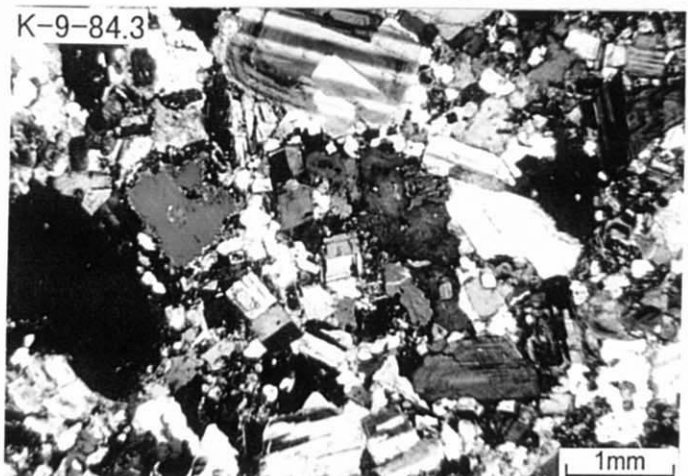
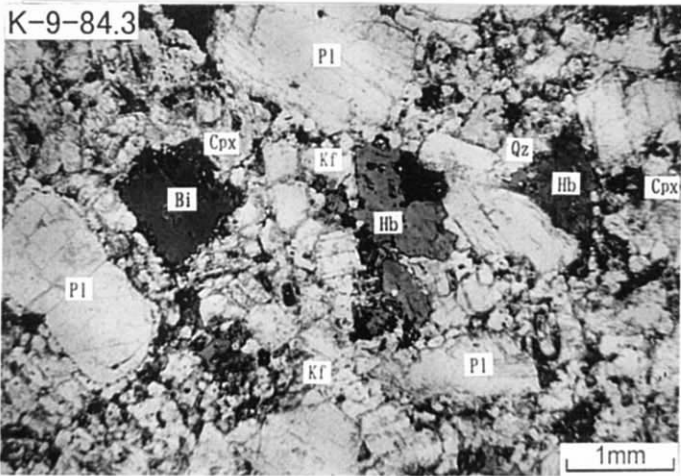
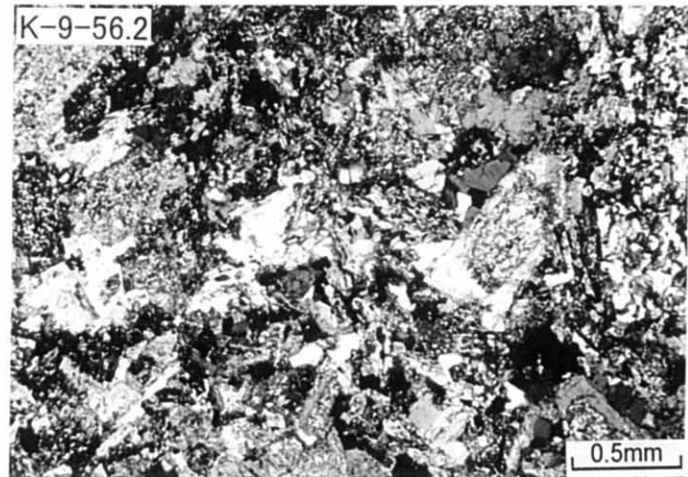
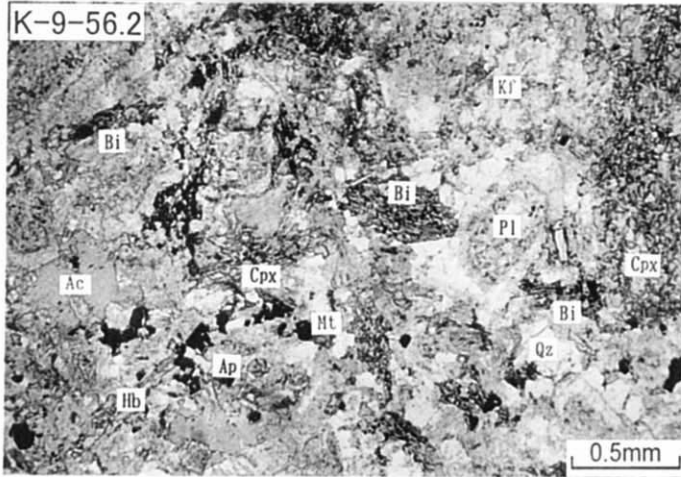
Crossed polarized light



Appendix 2 (2) Photomicrographs of the Thin Sections

Plane polarized light

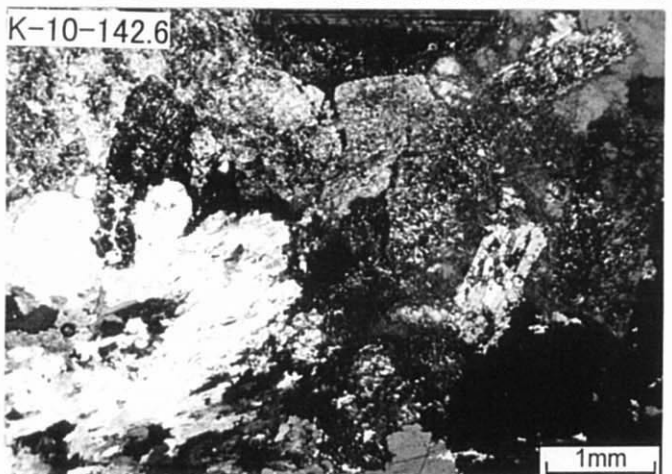
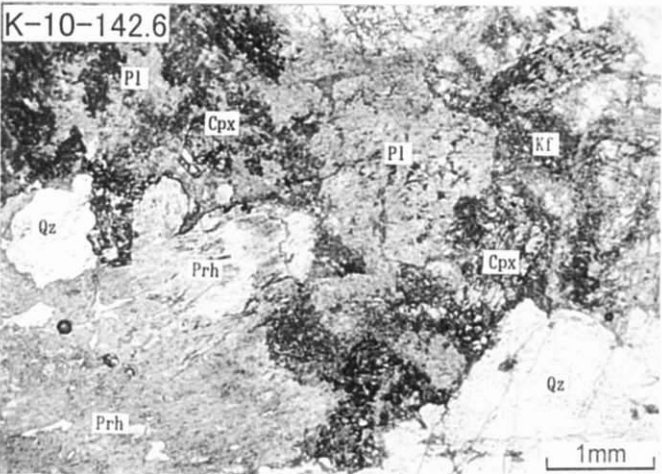
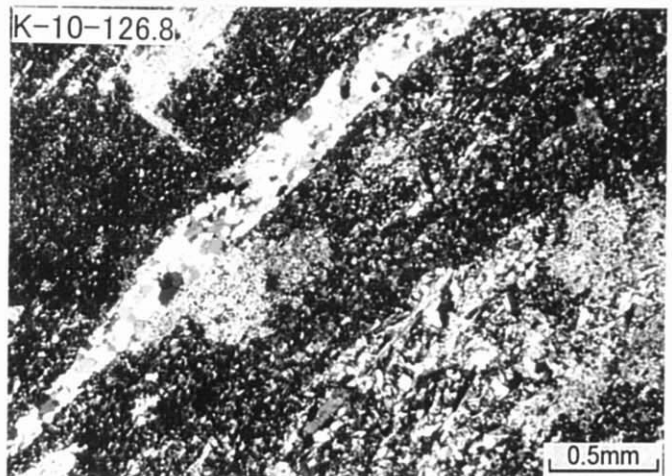
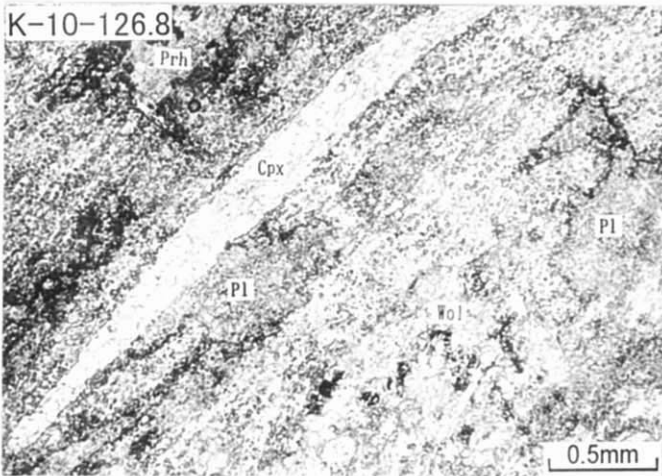
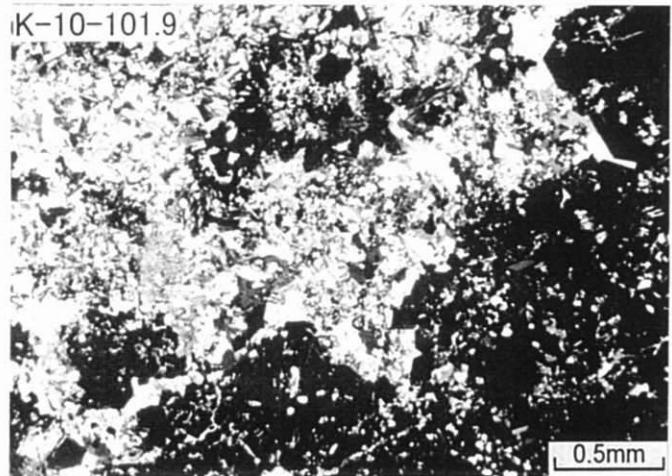
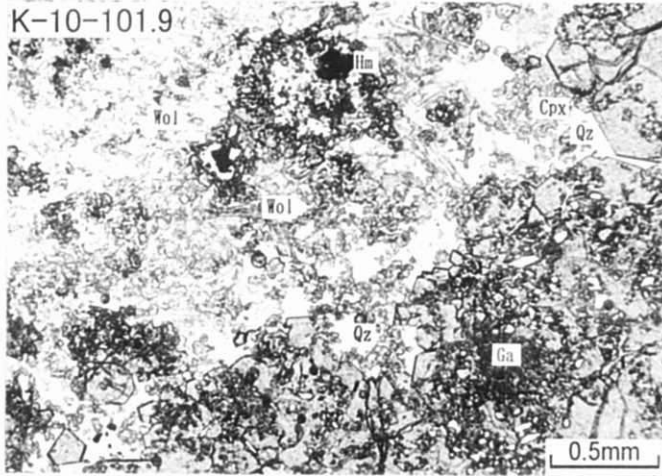
Crossed polarized light



Appendix 2 (3) Photomicrographs of the Thin Sections

Plane polarized light

Crossed polarized light



No.	Sample No.	Locality		Sample Name	Ore minerals													Gangue minerals							Remarks													
		Drill Hole	Depth		Cp	Bn	El	Bi	Cv	Cc	Py	Mar	Mal	Cry	Az	Hm	Gt	Qz	Pl	Kf	Ga	Cpx	Ep	Cal		Wol	Ves	Pth	Chl	Ser								
1	K-8-174.3	MJKK-8	174.3 m	Hematite-bearing brecciated marble										△			△					◎																
2	K-9-49.6	MJKK-9	49.6 m	SCM-bearing Cpx-gamet skam																		○	△															
3	K-10-104.2	MJKK-10	104.2 m	Vesuvianite-wollastonite skam																				◎														
4	K-10-104.4	MJKK-10	104.4 m	Cp-prehnite-quartz vein in Cpx-wollastonite skam																																		
5	K-10-113.9	MJKK-10	113.9 m	Cp-bearing wollastonite-Cpx-gamet skam																		○				◎												△
6	K-10-115.3	MJKK-10	115.3 m	Cp-quartz-calcite vein in gamet-Cpx skam																		○																○
7	K-10-120.5	MJKK-10	120.5 m	Cp-bearing silicified wollastonite-Cpx skam																		○																
8	K-10-126.5	MJKK-10	126.2 m	Cp-bearing silicified Cpx-wollastonite skam																						◎												
9	K-10-129.7	MJKK-10	129.7 m	Cp-bearing Cpx-wollastonite skam																																		
10	K-10-131.1	MJKK-10	131.1 m	Cp-quartz vein in Cpx-wollastonite skam																																		
11	K-10-135.8	MJKK-10	135.8 m	Calcite and quartz veins in Cpx-gamet skam																																		

[Abbreviations]

Act : actinolite, Az : azurite, Bi : native bismuth, Bn : bornite, Cal : calcite, Cc : chalcocite, Chl : chlorite, Cv : chrysocolla,

Cp : chalcopyrite, Cpx : clinopyroxene, Cv : covellite, El : electrum, Ep : epidote, Ga : garnet, Gt : goethite, Hm : hematite, Mal : malachite,

Pl : plagioclase, Pth : prehnite, Py : pyrite, Qz : quartz, Ser : sericite, SCM : secondary Cu-mineral, Ves : Vesuvianite, Wol : wollastonite

[Legend]

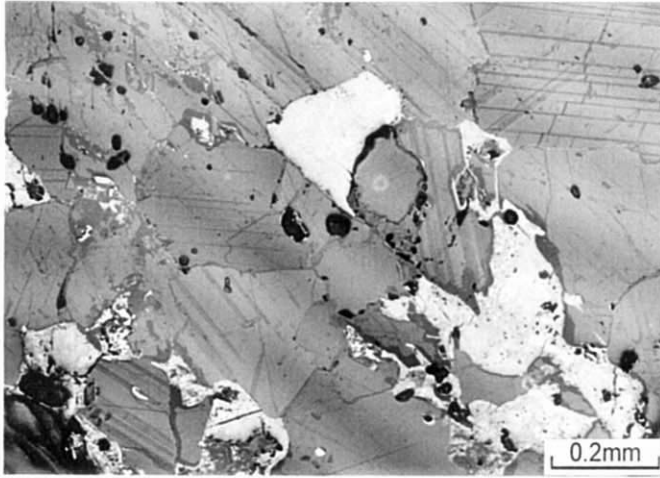
◎ Abundant, ○ Common, △ Poor, • Rare

Appendix 3 Results of Microscopic Observations of Polished Thin Sections

Appendix 4 (1) Photomicrographs of the Polished Thin Sections

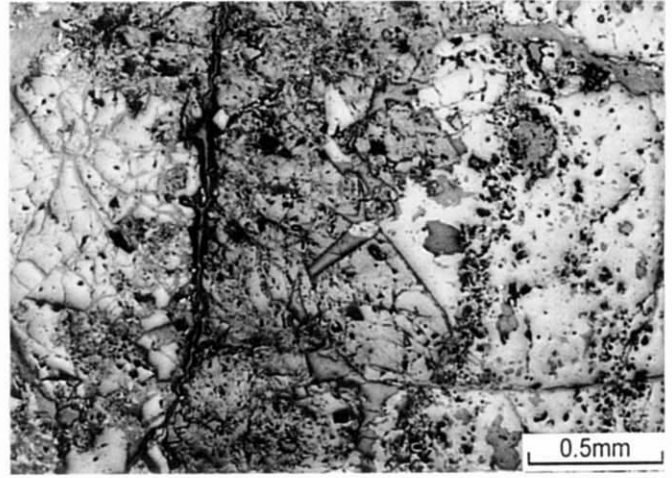
K-8-174.3

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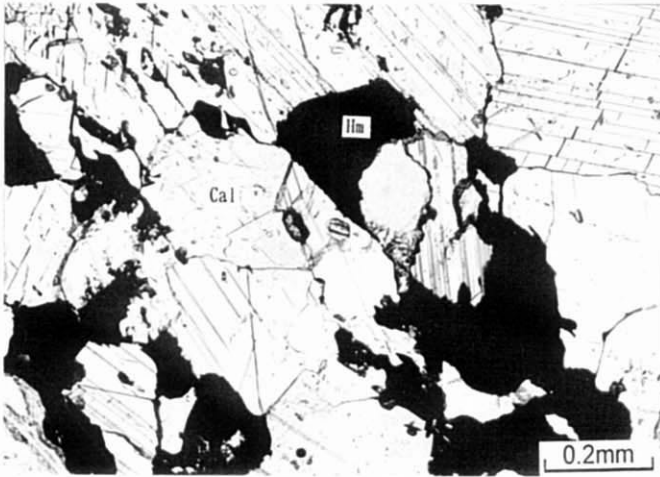


K-9-49.6

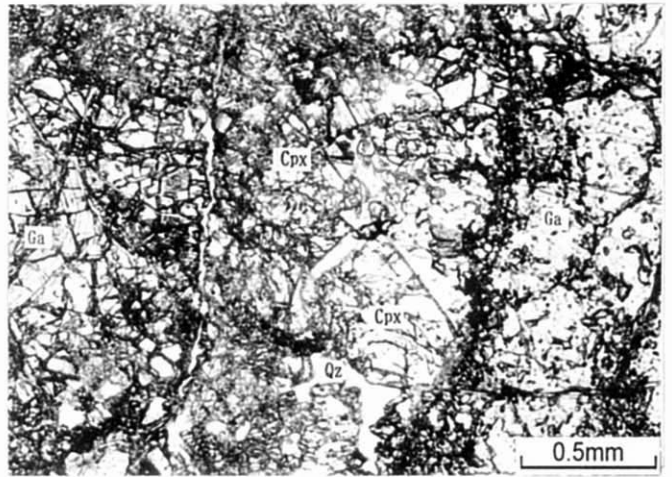
reflected light



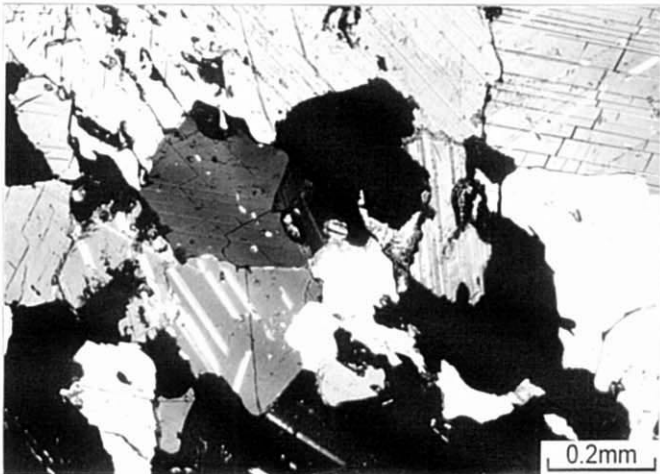
transmitted light(plane)



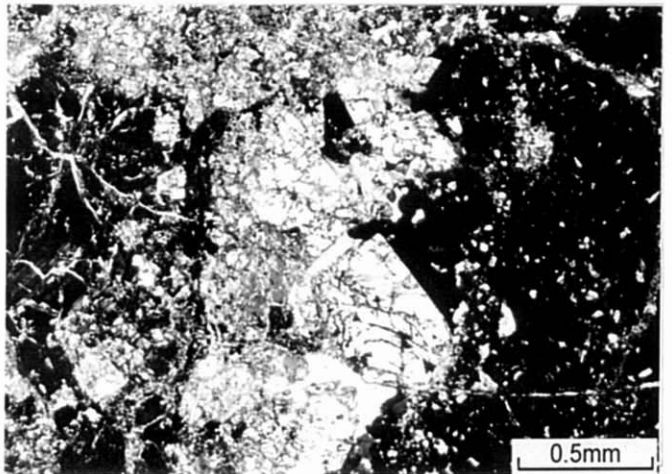
transmitted light(plane)



transmitted light(crossed)



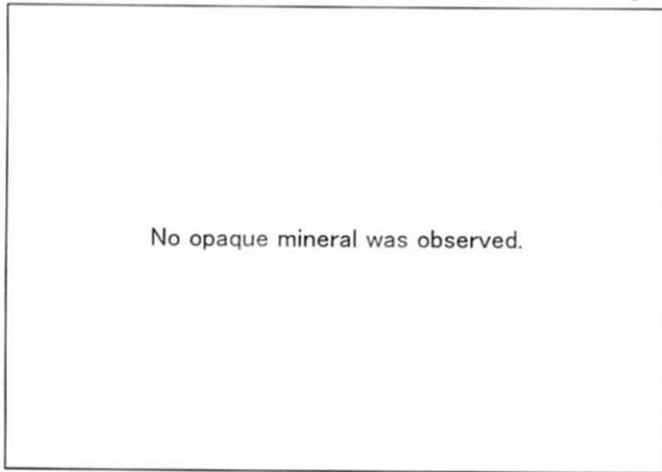
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Appendix 4 (2) Photomicrographs of the Polished Thin Sections

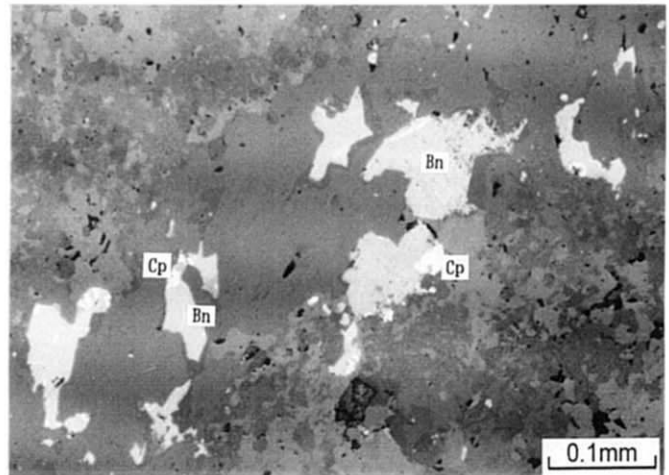
K-10-104.2

reflected light

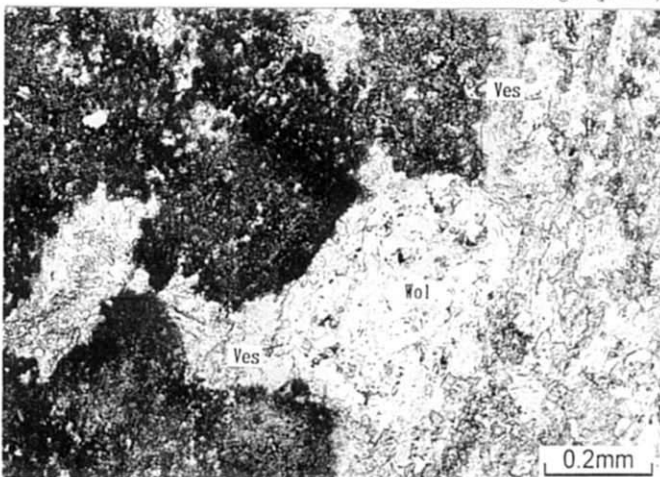


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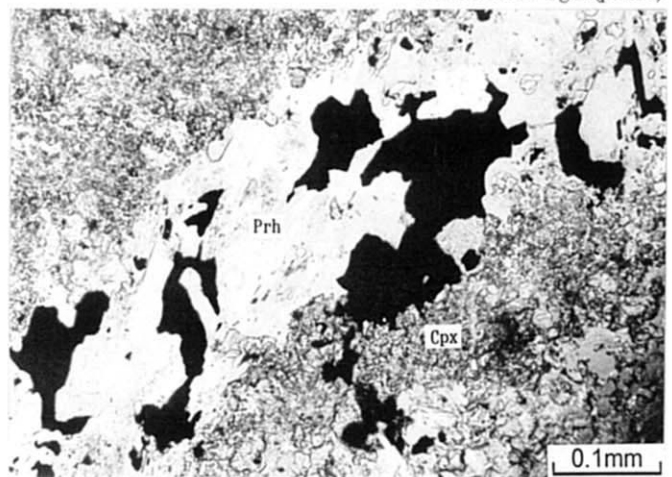
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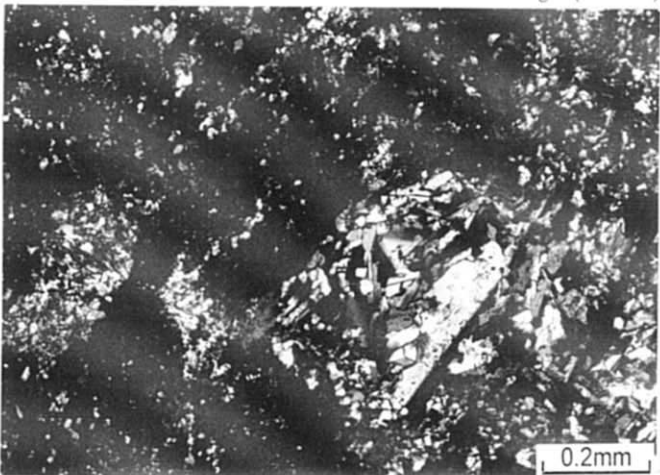
transmitted light(plane)



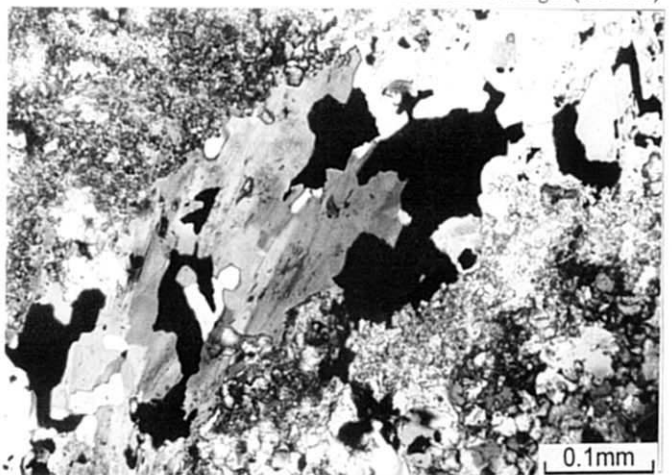
transmitted light(plane)



transmitted light(crossed)



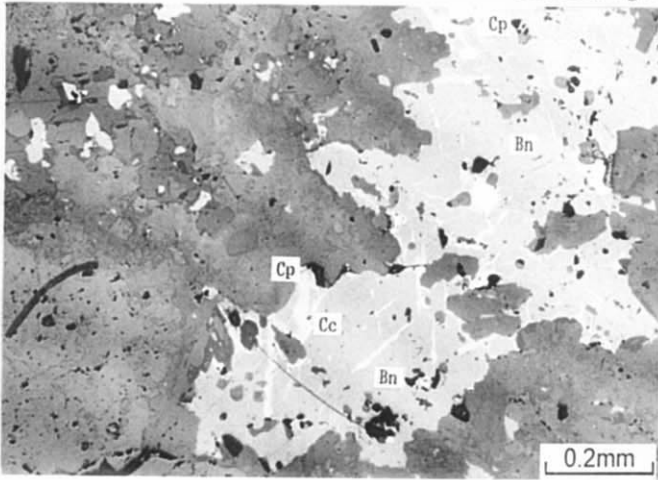
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Appendix 4 (3) Photomicrographs of the Polished Thin Sections

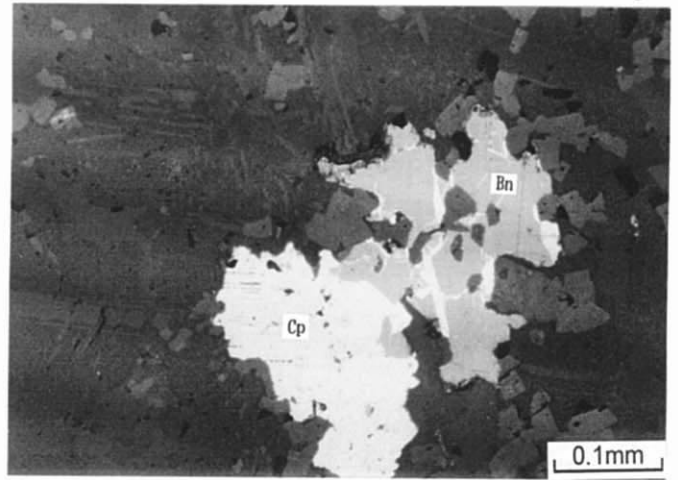
K-10-113.9

reflected light

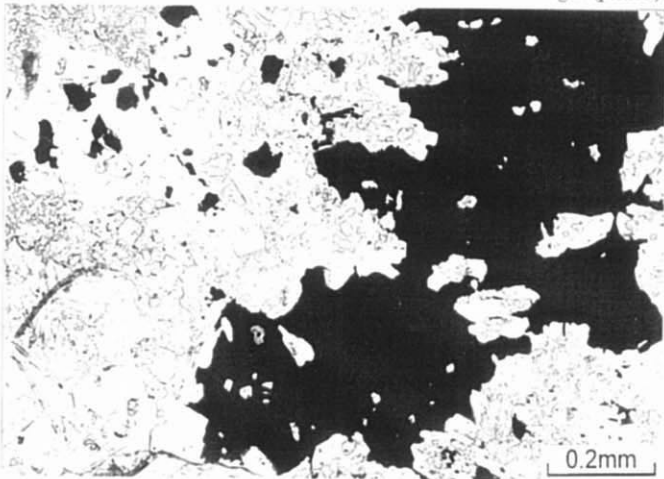


K-10-115.3

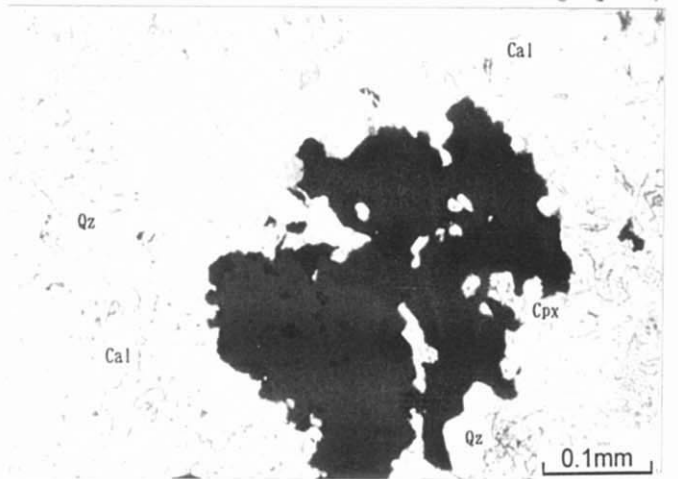
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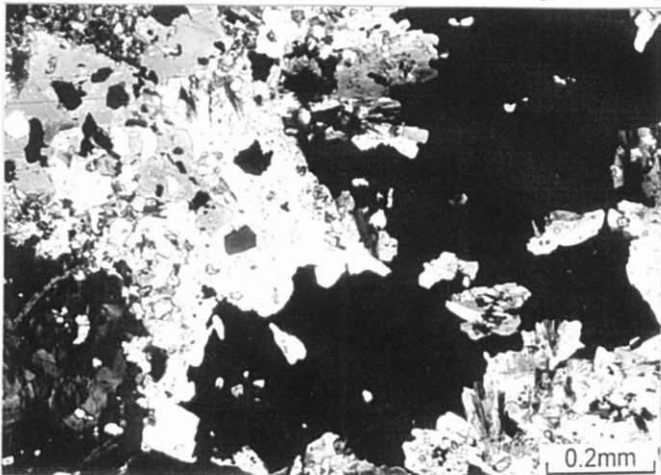
transmitted light(plane)



transmitted light(plane)



transmitted light(crossed)



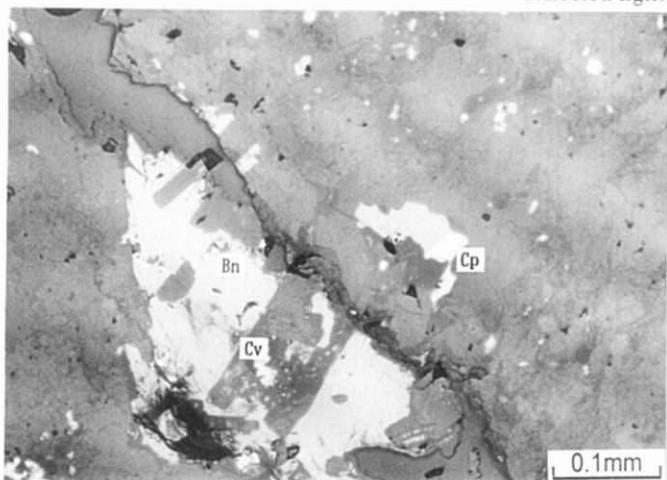
transmitted light(crossed)



Appendix 4 (4) Photomicrographs of the Polished Thin Sections

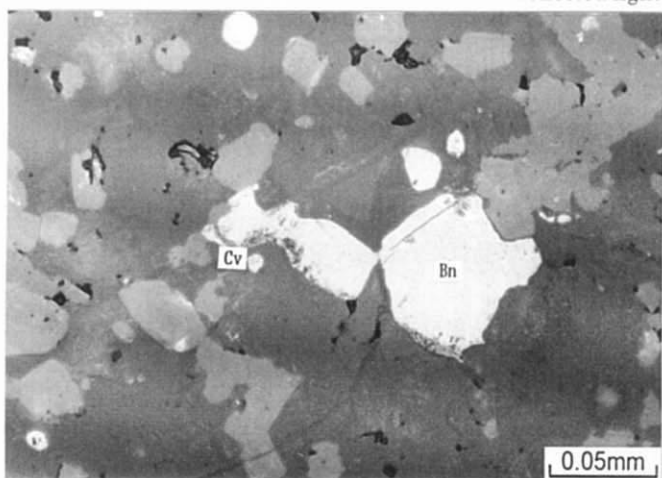
K-10-120.5

reflected light

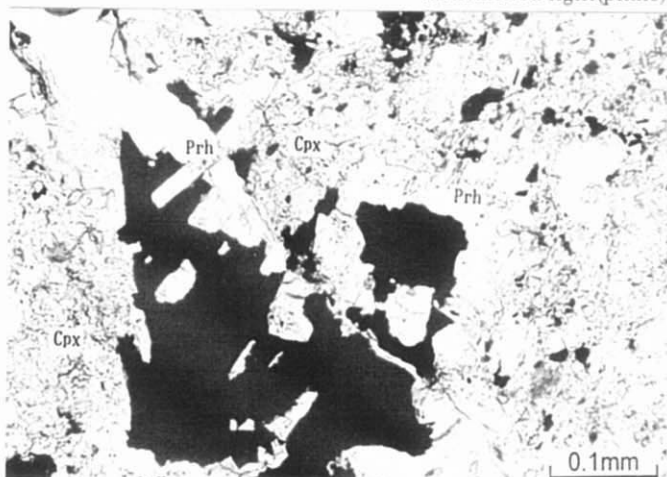


K-10-126.5

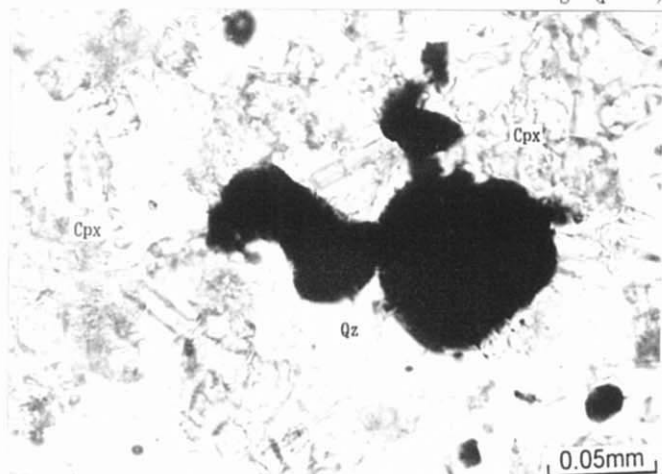
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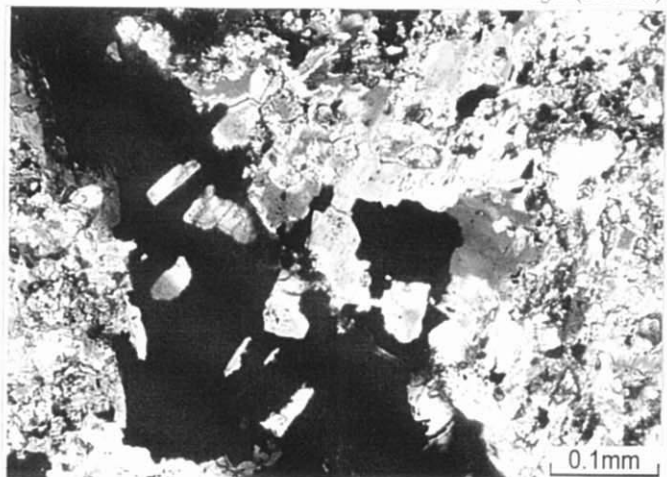
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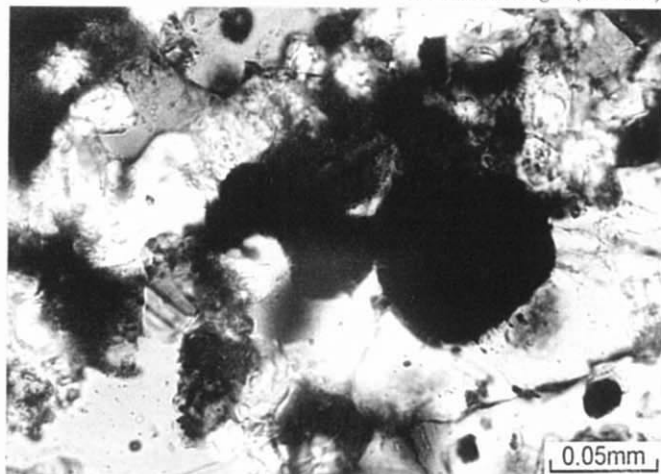
transmitted light(plane)



transmitted light(crossed)



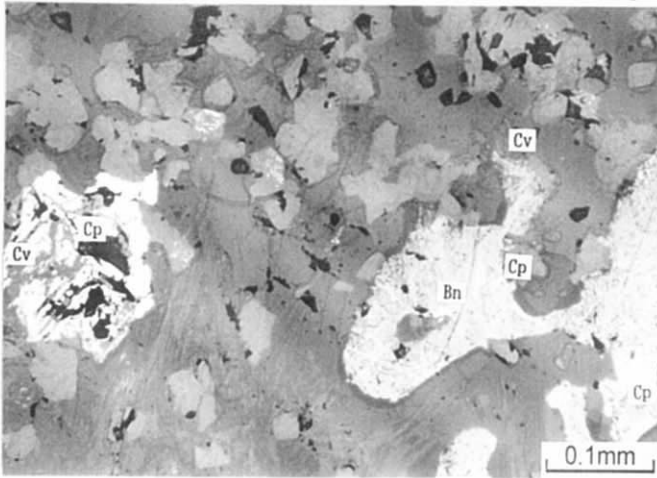
transmitted light(crossed)



Appendix 4 (5) Photomicrographs of the Polished Thin Sections

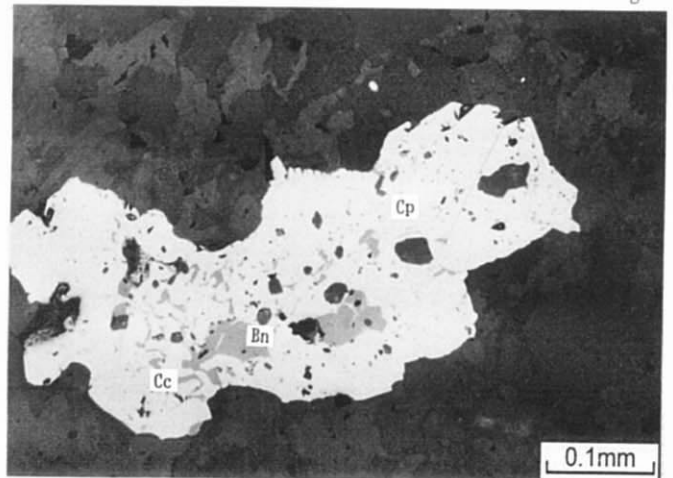
K-10-129.7

reflected light

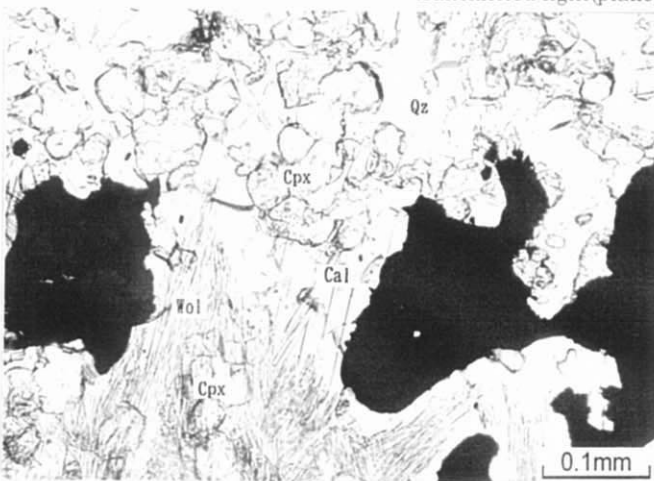


K-10-131.1

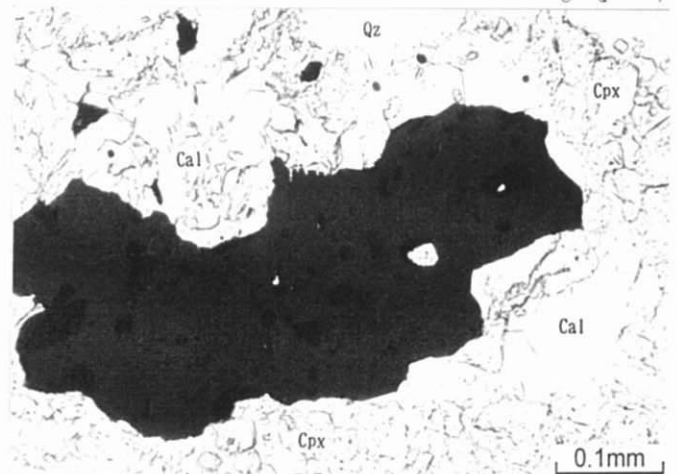
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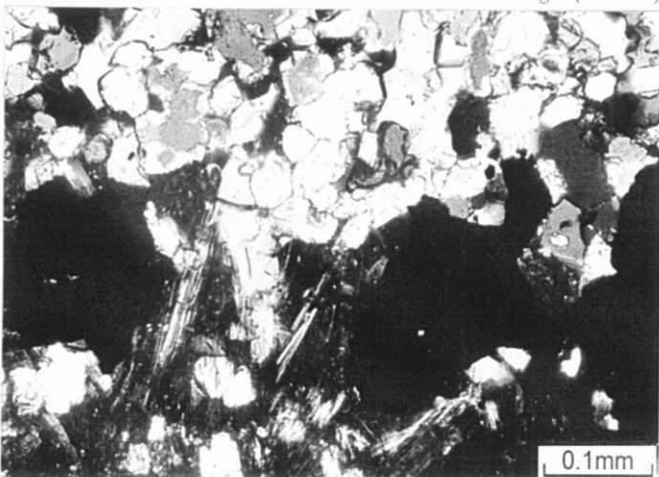
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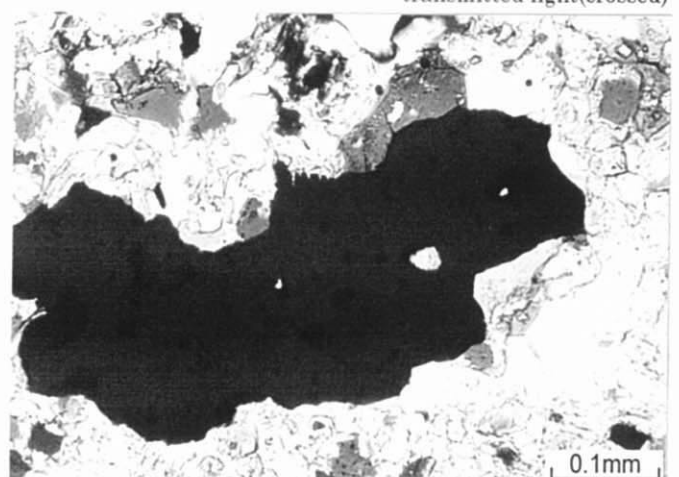
transmitted light(plane)



transmitted light(crossed)



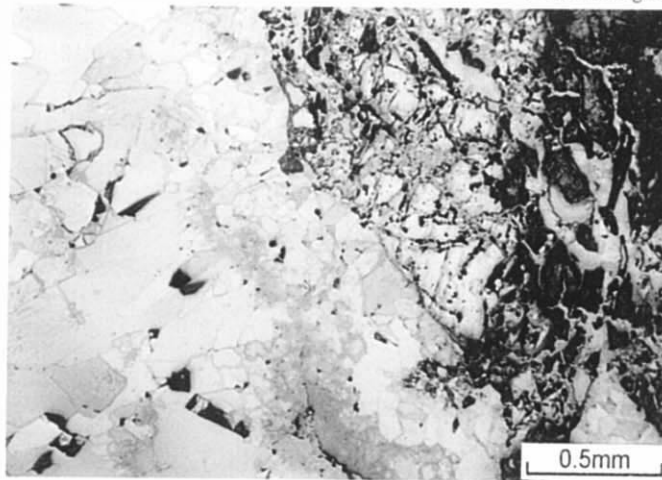
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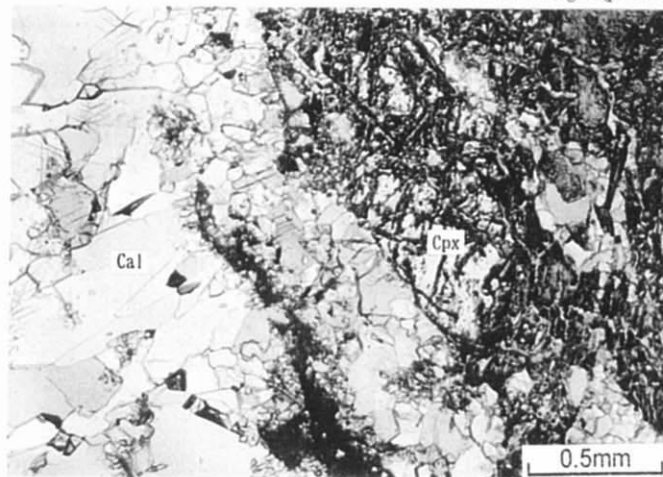
Appendix 4 (6) Photomicrographs of the Polished Thin Sections

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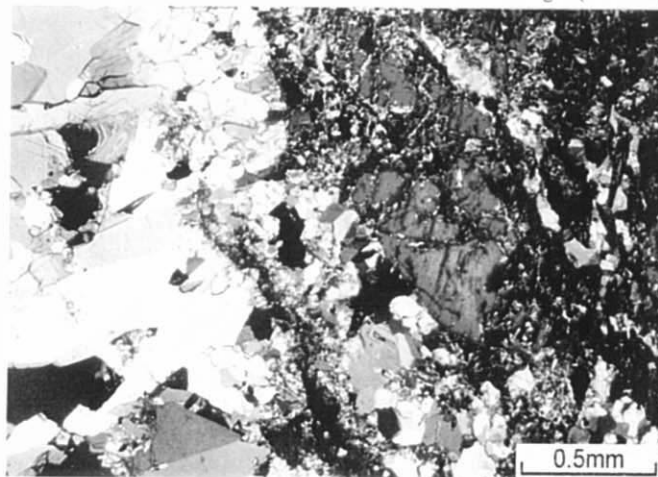
reflected light



transmitted light(plane)



transmitted light(crossed)



Nd	Sample no	Depth(m)	Gar	Cpx	Hb	Pl	Kf	Qtz	Chl	Ep	Ms	Bi	Se	Sm	Ka	Ha	Mix	Cal	Mgt	Ilm	Hm	Go	Cp	Bn	Py	Po	Mc
1	K9	49.6						△	△									◎				☆					
2	K10	71.6				◎	△	△	☆																		
3	K10	92.9				△		○	◎				○	◎		△											
4	K10	98				△		○		△																	
5	K8	170.4	◎					◎	☆				☆	○		◎	○										

[Legend]

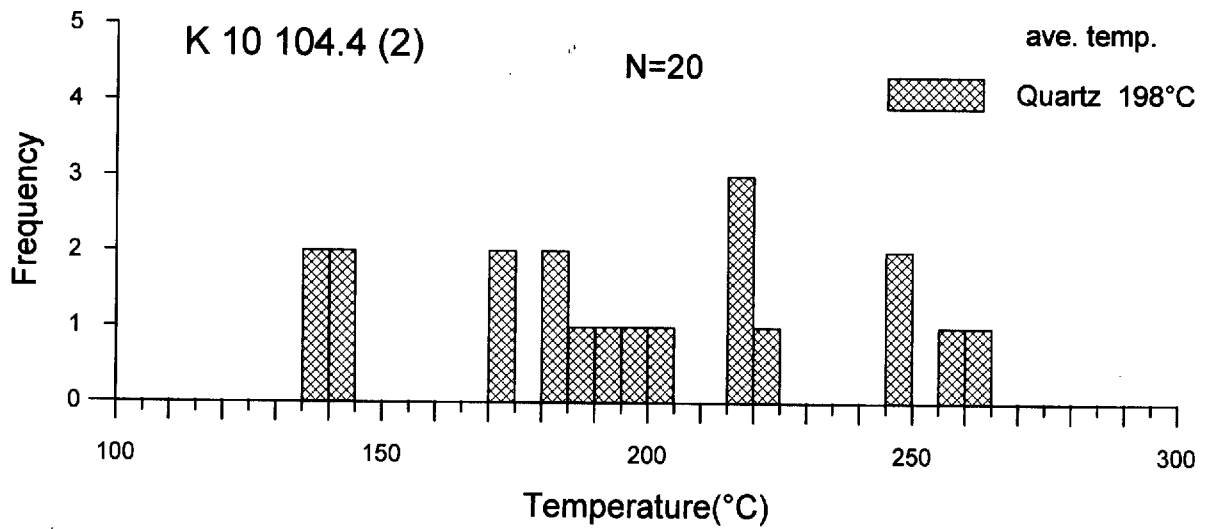
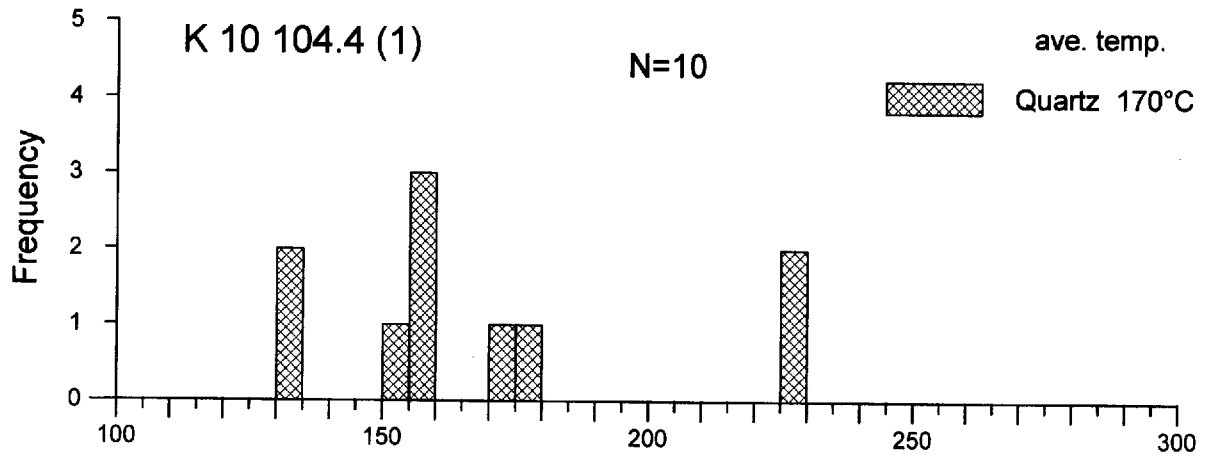
- ◎ : Abundant
- : Common
- △ : Poor
- ☆ : Rare

Gar=Garnet, Opx=Olinopyroxene, Hb=Amphiboles, Pl=Plagioclase, Kf=Potash feldspar, Qtz=Quartz, Chl=Chlorite, Ep=Epidote, Ms=Muscovite
 Bi=Biotite, Se=Sericite, Sphn=Sphene, Tm=Tourmaline, Vesuv=Vesuvianite, Pr=Prehnite, Wo=Wollastonite, Cal=Calcite
 Mgt=Magnetite, Ilm=Ilmenite, Hm=Hematite, Go=Goethite, Cp=Chalcopyrite, Br=Bornite, Py=Pyrite, Po=Pyrrhotite, Mc=Macasite
 Sph=Sphalerite, Tet=Tetrahedrite-series, Apy=Arsenopyrite, Co=Chalcocite, Cov=Covellite, El=Electrum, Bi-Te=Bi-Te series
 Sm-Smectite, Ka=Kaolinite, Ha=Halloysite, Mix=Mixed layer.

Appendix 5 Results of X-ray Diffraction Analysis

No.	Sample No.	Locality		Mineral	Remarks	Number of Inclusions	Range of filling temperature (°C)			Filling Temperature (°C)
		Drill Hole	Depth				Min.	Max.	Ave.	
1	K 10 91.6	MJJK-10	91.6m	Calcite	40cm vein in skarn (ls)	-	-	-	-	Alteration minerals quartz, calcite, epidote (?), etc. Inclusions are very few, no suitable inclusions were found for temperature measurement.
2	K 10 115.0	MJJK-10	115.0m	Quartz	0.5cm vein in skarn (ls)	-	Estimated at very low temperature			Quartz is likely to have been formed in low temperature environment, only one-phase (liquid) inclusions are seen (4-10 μ, polygonal shape). No suitable inclusions were found for temperature measurement.
3	K 10 116.1	MJJK-10	116.1m	Qz/Cal	20cm vein in skarn (ls)	-	Estimated at very low temperature			Calcite and quartz are likely to have been formed in low temperature environment, only one-phase (liquid) inclusions are seen (4-15 μ, polygonal shape). No suitable inclusions were found for temperature measurement.
4	K 10 126.6	MJJK-10	126.6m	Qz/Cal	15cm vein in skarn (ls)	-	Estimated at very low temperature			Calcite and quartz are likely to have been formed in low temperature environment, only one-phase (liquid) inclusions are seen (4-15 μ, polygonal shape). No suitable inclusions were found for temperature measurement.
5	K 10 140.4	MJJK-10	140.0m	Quartz	1cm vein in gdp	10	131	230	170	131 134 153 157 158 173 177 226 230
6	K 10 140.4	MJJK-10	140.0m	Quartz	1cm vein in gdp	20	138	264	198	138 139 143 143 171 174 184 185 186 191 200 201 219 219 220 222 247 247 260 264

Appendix 6 Results of Homogenization Temperature Measurement



Appendix 7 Histograms of Homogenization Temperature Measurement

Appendix 8 Assay Results of Drilling Survey

No.	Sample No.	Au ppm	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	As ppm	Sb ppm
1	9K801	<0.03	<1	15	<3.5	11	10.4	<1.5	<2.5
2	9K802	<0.03	<1	10	5	16	1.7	<1.5	<2.5
3	9K803	<0.03	<1	7	7	12	0.9	8	<2.5
4	9K804	<0.03	<1	12	<3.5	16	0.6	2	<2.5
5	9K805	<0.03	<1	26	7	55	<0.5	<1.5	<2.5
6	9K806	0.03	<1	53	10	45	0.9	2	<2.5
7	9K807	0.09	<1	806	5	198	2.7	22	3
8	9K808	0.15	<1	802	<3.5	71	1.7	3	<2.5
9	9K809	<0.03	<1	19	<3.5	16	<0.5	<1.5	<2.5
10	9K901	<0.03	<1	74	<3.5	50	0.6	<1.5	3
11	9K902	<0.03	<1	270	6	193	0.7	<1.5	<2.5
12	9K903	<0.03	<1	43	<3.5	38	0.7	<1.5	3
13	9K904	0.62	<1	672	7	521	0.8	11	<2.5
14	9K905	<0.03	<1	190	<3.5	318	0.7	<1.5	4
15	9K906	<0.03	<1	65	12	126	3.4	<1.5	<2.5
16	9K907	<0.03	<1	98	12	133	1.0	<1.5	3
17	9K908	<0.03	<1	55	6	60	1.0	<1.5	<2.5
18	9K909	<0.03	<1	41	7	50	1.1	<1.5	3
19	9K910	<0.03	<1	29	10	60	1.2	<1.5	<2.5
20	9K911	<0.03	<1	60	9	49	1.3	<1.5	3
21	9K912	<0.03	<1	57	12	57	1.2	<1.5	<2.5
22	9K913	<0.03	<1	101	9	133	1.4	<1.5	<2.5
23	9K914	<0.03	<1	150	<3.5	25	2.9	6	3
24	9K915	0.06	<1	495	4	114	1.5	3	<2.5
25	9K916	<0.03	<1	22	4	20	1.0	<1.5	3
26	9K917	<0.03	<1	10	7	13	<0.5	<1.5	3
27	9K918	<0.03	<1	22	8	26	4.6	<1.5	<2.5
28	9K919	<0.03	<1	15	4	36	1.2	6	<2.5
29	9K920	<0.03	<1	15	14	33	1.0	<1.5	<2.5
30	9K001	<0.03	<1	394	7	72	1.0	2	<2.5
31	9K002	<0.03	<1	96	13	43	1.8	2	<2.5
32	9K003	<0.03	<1	227	7	67	1.0	4	<2.5
33	9K004	<0.03	<1	29	4	21	<0.5	<1.5	<2.5

Appendix 8 Assay Results of Drilling Survey

No.	Sample No.	Au ppm	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	As ppm	Sb ppm
34	9K005	<0.03	<1	31	<3.5	24	<0.5	<1.5	<2.5
35	9K006	<0.03	<1	78	10	61	<0.5	<1.5	<2.5
36	9K007	<0.03	<1	33	8	58	0.7	<1.5	<2.5
37	9K008	<0.03	<1	158	24	79	2.1	<1.5	<2.5
38	9K009	<0.03	<1	162	12	54	1.7	4	<2.5
39	9K010	<0.03	<1	103	10	163	0.5	<1.5	<2.5
40	9K011	<0.03	<1	37	<3.5	17	<0.5	<1.5	<2.5
41	9K012	<0.03	<1	14	<3.5	15	<0.5	<1.5	<2.5
42	9K013	<0.03	<1	11	15	10	<0.5	2	<2.5
43	9K014	<0.03	<1	27	<3.5	17	<0.5	<1.5	<2.5
44	9K015	<0.03	<1	10	<3.5	9	<0.5	<1.5	<2.5
45	9K016	<0.03	<1	20	<3.5	9	<0.5	<1.5	<2.5
46	9K017	<0.03	<1	7	<3.5	9	<0.5	<1.5	<2.5
47	9K018	<0.03	<1	9	<3.5	9	<0.5	<1.5	<2.5
48	9K019	<0.03	<1	9	<3.5	8	<0.5	2	<2.5
49	9K020	<0.03	<1	13	<3.5	5	<0.5	<1.5	<2.5
50	9K021	<0.03	<1	11	<3.5	5	<0.5	<1.5	<2.5
51	9K022	<0.03	<1	10	4	5	<0.5	<1.5	<2.5
52	9K023	<0.03	<1	18	<3.5	6	<0.5	<1.5	<2.5
53	9K024	<0.03	<1	14	<3.5	6	5.2	<1.5	<2.5
54	9K025	<0.03	<1	10	<3.5	5	0.6	<1.5	<2.5
55	9K026	<0.03	<1	27	<3.5	9	<0.5	<1.5	<2.5
56	9K027	<0.03	<1	124	<3.5	10	<0.5	4	<2.5
57	9K028	<0.03	<1	26	<3.5	16	<0.5	<1.5	<2.5
58	9K029	<0.03	<1	45	<3.5	14	<0.5	<1.5	<2.5
59	9K030	0.07	<1	344	<3.5	15	<0.5	2	<2.5
60	9K031	<0.03	<1	342	<3.5	13	<0.5	2	3
61	9K032	<0.03	4.0	3,418	7	161	0.5	2	<2.5
62	9K033	<0.03	<1	110	<3.5	9	<0.5	<1.5	<2.5
63	9K034	<0.03	1.0	1,293	<3.5	36	<0.5	<1.5	<2.5
64	9K035	<0.03	1.0	1,707	6	32	<0.5	<1.5	<2.5
65	9K036	<0.03	<1	1,025	4	31	<0.5	<1.5	<2.5
66	9K037	<0.03	<1	70	<3.5	7	<0.5	<1.5	<2.5

Appendix 8 Assay Results of Drilling Survey

No.	Sample No.	Au ppm	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	As ppm	Sb ppm
67	9K038	0.05	<1	412	<3.5	10	<0.5	2	<2.5
68	9K039	<0.03	<1	314	<3.5	11	<0.5	<1.5	3
69	9K040	<0.03	<1	306	<3.5	15	0.7	2	<2.5
70	9K041	<0.03	<1	190	<3.5	18	<0.5	<1.5	<2.5
71	9K042	0.04	<1	160	<3.5	10	<0.5	<1.5	<2.5
72	9K043	0.11	<1	171	<3.5	14	<0.5	<1.5	3
73	9K044	0.25	<1	466	<3.5	12	<0.5	<1.5	<2.5
74	9K045	0.09	<1	203	4	10	<0.5	2	<2.5
75	9K046	0.08	<1	175	<3.5	9	<0.5	<1.5	3
76	9K047	0.07	<1	227	<3.5	7	<0.5	<1.5	<2.5
77	9K048	<0.03	<1	120	<3.5	7	<0.5	<1.5	<2.5
78	9K049	0.11	<1	327	<3.5	8	<0.5	<1.5	<2.5
79	9K050	0.20	<1	273	<3.5	8	<0.5	<1.5	<2.5
80	9K051	0.10	<1	232	<3.5	10	<0.5	<1.5	<2.5
81	9K052	0.05	<1	370	<3.5	13	<0.5	<1.5	3
82	9K053	<0.03	<1	99	<3.5	12	0.7	<1.5	<2.5
83	9K054	0.04	<1	59	<3.5	13	0.5	<1.5	3
84	9K055	<0.03	<1	74	6	10	3.4	2	<2.5
85	9K056	0.04	<1	78	11	11	<0.5	<1.5	<2.5
86	9K057	<0.03	<1	32	21	12	<0.5	<1.5	<2.5
87	9K058	<0.03	<1	43	6	9	<0.5	<1.5	<2.5
88	9K059	0.03	<1	37	17	10	<0.5	<1.5	<2.5
89	9K060	0.10	<1	69	6	12	<0.5	<1.5	<2.5
90	9K061	0.05	<1	198	5	12	<0.5	<1.5	<2.5
91	9K062	0.09	<1	125	4	7	<0.5	2	<2.5
92	9K063	0.09	<1	115	<3.5	6	<0.5	<1.5	<2.5
93	9K064	<0.03	<1	56	12	9	<0.5	<1.5	<2.5
94	9K065	0.07	<1	119	4	10	<0.5	2	<2.5
95	9K066	<0.03	<1	99	16	13	<0.5	2	<2.5
96	9K067	0.05	<1	287	20	18	<0.5	<1.5	<2.5
97	9K068	0.28	<1	729	13	70	0.6	<1.5	<2.5
98	9K069	0.04	<1	67	16	24	<0.5	<1.5	<2.5
99	9K070	0.04	<1	86	26	53	0.8	<1.5	<2.5

Appendix 8 Assay Results of Drilling Survey

No.	Sample No.	Au ppm	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	As ppm	Sb ppm
100	9K071	0.22	<1	97	16	45	1.1	<1.5	<2.5
101	9K072	0.30	<1	121	22	71	0.9	<1.5	<2.5
102	9K073	0.07	<1	60	14	35	1.4	2	<2.5
103	9K074	0.06	<1	69	14	36	2.6	<1.5	<2.5
104	9K075	0.12	<1	61	13	20	0.9	<1.5	4
105	9K076	0.06	<1	56	11	21	1.4	<1.5	3
106	9K077	0.15	<1	181	21	38	0.7	<1.5	<2.5
107	9K078	<0.03	<1	80	15	29	0.7	<1.5	<2.5
108	9K079	<0.03	<1	36	11	16	0.5	<1.5	<2.5

1999 KIRGHYZ KICHI-SANDYK AREA "SAMPLE LIST of LABORATORY WORKS"

serial	sample No.	location	field name and description	TS	PS	Fl	CA	XR	remarks	sample No.	Wdt. m	Au, ppm	Ag, ppm	Cu, %	Pb, ppm	Zn, ppm	As, ppm	Sb, ppm	Mo, ppm
1	9 K 8 174.3	KS/MJJK-8П	gm-Cu in ga sk		X					9 K 8 174.3		0.09	<1	806.3	5	197.6	22	3	2.7
2	9 K 9 49.6	KS/MJJK-9П	gm-Cu in ga sk		X					9 K 9 49.6		0.62	<1	672.3	7	520.6	11	<2.5	0.8
12	9 K 8 118.2	KS/MJJK-8П	bre ls		X					9 K 8 118.2									
34	9 K 8 170.9	KS/MJJK-8П	pk clay					X		9 K 8 170.9	<0.03	<1	6.7	7.0	12	8.0	<2.5	1	
13	9 K 8 208.0	KS/MJJK-8П	ls wk bre		X					9 K 8 208.0									
14	9 K 9 27.8	KS/MJJK-9П	ls with pk clay		X					9 K 9 27.8									
15	9 K 9 47.6	KS/MJJK-9П	grd p-grm alt		X					9 K 9 47.6									
30	9 K 9 49.6	KS/MJJK-9П	gm-Cu in sk					X		9 K 9 49.6									
16	9 K 9 56.2	KS/MJJK-9П	sk in grd		X					9 K 9 56.2	<0.03	<1	59.8	9	48.9	<1.5	3	1.3	
17	9 K 9 84.3	KS/MJJK-9П	grd fresh		X					9 K 9 84.3									
18	9 K 10 54.9	KS/MJJK-10П	ls stg sil (grd?)		X					9 K 10 54.9	<0.03	<1	96.2	13	42.8	2	<2.5	1.8	
31	9 K 10 71.6	KS/MJJK-10П	ga sk with grd					X		9 K 10 71.6	<0.03	<1	157.8	24	79.1	<1.5	<2.5	2.1	
19	9 K 10 71.7	KS/MJJK-10П	ga sk with grd		X					9 K 10 71.7	<0.03	<1	162.1	12	54.2	4	<2.5	1.7	
23	9 K 10 91.6	KS/MJJK-10П	cal with gm sk					X		9 K 10 91.6	<0.03	<1	26.0	<3.5	15.6	<1.5	<2.5	<0.5	
32	9 K 10 92.9	KS/MJJK-10П	pk clay, ls crushed					X		9 K 10 92.9	0.07	<1	344.3	<3.5	15.3	2	<2.5	<0.5	
33	9 K 10 98.0	KS/MJJK-10П	ga sk in sil ls					X		9 K 10 98.0	<0.03	1	1707.0	6	32.1	<1.5	<2.5	<0.5	
20	9 K 10 101.9	KS/MJJK-10П	ga sk in sil ls		X					9 K 10 101.9	0.05	<1	412.2	<3.5	9.5	2	<2.5	<0.5	
3	9 K 10 104.2	KS/MJJK-10П	0.1c qz v-let bo					X		9 K 10 104.2	<0.03	<1	189.6	<3.5	18.1	<1.5	<2.5	<0.5	
4	9 K 10 104.4	KS/MJJK-10П	1c qz v-let bo		X					9 K 10 104.4	<0.03	<1	189.6	<3.5	18.1	<1.5	<2.5	<0.5	
5	9 K 10 113.9	KS/MJJK-10П	2c sk-band bo		X					9 K 10 113.9	0.20	<1	273.3	<3.5	7.5	<1.5	<2.5	<0.5	
24	9 K 10 115.0	KS/MJJK-10П	1c cal v					X		9 K 10 115.0	0.05	<1	370.1	<3.5	13.3	<1.5	3	<0.5	
6	9 K 10 115.3	KS/MJJK-10П	0.5c qz v-let bo>op		X					9 K 10 115.3	0.05	<1	370.1	<3.5	13.3	<1.5	3	<0.5	
25	9 K 10 116.1	KS/MJJK-10П	cal v-let					X		9 K 10 116.1	<0.03	<1	98.5	<3.5	11.8	<1.5	<2.5	0.7	
7	9 K 10 120.5	KS/MJJK-10П	0.3c qz v gry bo, sk in sil ls		X					9 K 10 120.5	<0.03	<1	32.2	21	11.8	<1.5	<2.5	<0.5	
8	9 K 10 126.2	KS/MJJK-10П	0.2c qz v bo		X					9 K 10 126.2	0.08	<1	114.9	<3.5	6.3	<1.5	<2.5	<0.5	
26	9 K 10 126.6	KS/MJJK-10П	cal v with sk					X		9 K 10 126.6	0.09	<1	114.9	<3.5	6.3	<1.5	<2.5	<0.5	
21	9 K 10 126.8	KS/MJJK-10П	stg sil ls with gry band		X					9 K 10 126.8	0.09	<1	114.9	<3.5	6.3	<1.5	<2.5	<0.5	
9	9 K 10 129.7	KS/MJJK-10П	0.5c qz v bo		X					9 K 10 129.7	<0.03	<1	98.9	16	13.3	2	<2.5	<0.5	
10	9 K 10 131.1	KS/MJJK-10П	qz v-let bo		X					9 K 10 131.1	0.05	<1	287.1	20	17.5	<1.5	<2.5	<0.5	
11	9 K 10 135.8	KS/MJJK-10П	2c cal v ep ga bk-mmrd in grd		X					9 K 10 135.8	0.30	<1	120.9	22	70.8	<1.5	<2.5	0.9	
27	9 K 10 140.4	KS/MJJK-10П	1c cal v					X		9 K 10 140.4	0.15	<1	181.3	21	36.1	<1.5	<2.5	0.7	
22	9 K 10 142.6	KS/MJJK-10П	grd fresh		X					9 K 10 142.6	<0.03	<1	36.4	11	16.4	<1.5	<2.5	0.5	

TS,thin section, PS,polished section, Fl,homogenized temperature of fluid inclusion, CA,chemical analysys(Au,Ag,Cu,Pb,Zn,Mo,As,Sb) XR,X-ray diffraction method

Appendix 9 Sample List of Laboratory Works

Appendix 10 Geologic Core Log of the Drillings
GEOLOGIC CORE LOG OF MJKK - 8 (1/5)

MJKK - 8 0.0 m ~ 50.0 m												Level	1/200	m Direction			
LITHO-LOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT								LAB. TEST	m Inclination	m Length		
					Au	Ag	Cu	Pb	Zn	As	Sb	Mo					
	0																
	0	Pebble & gravel of wht ls															
	3.6																
ls		ls, p-gry with bk band (20-40%)															
		4.0-5.0 wk sil															
		6.4-6.7 wk sil															
ls																	
	9.3																
	9.4	30° 20° alt zone with brn band															
ls	10.0	9.3-10.0 wk sil															
		ls, p-gry with bk band (20-40%)															
ls																	
	14.5	14.5-15.8, wk sil ls															
	15.8																
	16.5	60° 40° bre with clay, p-brn															
ls																	
	20.8	50° 0.5° cal v															
ls																	
	22.8	20° crushed zone															
ls		ls, p-gry with bk band (20-40%)															
	26.7	26.7-31.6 brec q 1-2°, porous															
ls																	
	31.6																
ls																	
	32.9	45° crushed with wht clay															
	33.7																
ls																	
	34.9	34.9-35.3 wk sil															
	35.3	34.8-38.1 cal patch															
ls																	
	38.1	ls, p-gry with bk band (20-40%)															
	39.4																
ls		39.4-40.8 wk sil															
	40.8																
ls																	
	42.5	42.5-44.1 wk sil															
ls																	
	44.1	10° crushed															
	44.4																
	45.8	45.8-48.0 drusy															
ls																	
	48.0	ls, p-gry with bk band (20-40%)															
ls																	
	50.0																

GEOLOGIC CORE LOG 8 OF MJKK - 8 (2/5)

Level
X
Y

1/200
m Direction
m Inclination
m Length m

MJKK - 8 50.0 m ~ 100.0 m

LITHO- LOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT								LAB. TEST	
					Au	Ag	Cu	Pb	Zn	As	Sb	Mo		
ls		ls, p-gry with bk band (20-40%) crl drusy												
ls														
	57.2	crushed with brnsh clay												
	58.0	45° 58.0-58.9 ls, brnsh gry												
ls	58.9													
		58.9-63.7 ls, drusy												
ls														
	63.7	30° crushed with brec, brn clay												
ls	65.5													
		20° crushed												
ls	66.6													
		66.6-71.3 crushed												
ls														
	71.3													
	72.7	10° clay, pinkish												
	73.2	20° pk cal patch												
ls														
	76.6	10° cal patch, pk												
ls														
	78.9	78.9-81.1 drusy with cal crystal												
ls														
	81.1	81.1-86.0 with pk cal patch wk												
ls														
	86.0	86.0-95.3 drusy												
	86.9													
	87.7	1-2° brecciated												
		88.6-60° pk cal patch												
	89.9	89.9-30° wk crushed with wht clay												
ls														
	94.2	94.2-20° wht clay												
	95.3													
ls	97.5													
	97.7	20° crushed with brn clay												
	99.0	97.7-99.0 drusy												

GEOLOGIC CORE LOG OF MJKK - 8 (3/5)

Level
X
Y
1/200
m Direction
m Inclination
m Length m

MJKK - 8 100.0 m ~ 150.0 m

LITHO-LOGGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT								LAB. TEST	
					Au	Ag	Cu	Pb	Zn	As	Sb	Mo		
ls	101,3	ls, crl, p-gry with bk band (10~20%) 101.3~20° ls with wht clay												
	103,0													
ls	106,2	106.9~108.0 ls, drusy, crushed												
	106,9													
ls	108,0	108.7~110.8 wk sil												
	108,7													
ls	110,8	111.9~113.5 ls with cal patch pk-wht 5° wht clay												
	111,9													
ls	112,7	113.5~118.9 drusy 1° wht clay												
	113,5													
ls	114,5	116.7~117.2 drusy with cal crystal 50° clay, pk												
	116,4													
ls	117,2	brecciated with brn clay, wk drusy												
	117,4													
ls	119,0	121.0~130.0 wk drusy												
	121,0													
ls	123,5	123.5~123.8 brec with brn clay												
	123,8													
ls	125,8	125.8~126.2 crushed with wht clay, wk sil												
	126,2													
ls	126,7	126.7~127.3 crushed with wht ls												
	127,3													
ls	129,2	129.2~129.6 crushed												
	129,6													
ls	130,0	130.0~130.3 crushed with wht clay 130.4~130.9 bre with wht clay												
	130,4													
ls	133,6	133.6~133.9 bre												
	133,9													
ls	135,5	135.5~137.5 drusy												
	137,5													
ls	138,7	138.7~140° crushed with pk clay												
	140,0													
ls	140,5	140.0~140.5 wk sil												
	141,7													
ls	142,6	141.7~142.1 wht clay 142.6~142.9 wk sil												
	142,9													
ls	144,4	bre with brn clay												
	145,0													
ls	145,8	145.8~147.9 pk cal patch												
	147,9													
ls	148,3	148.3~150.0 sil wk												
	148,3													

GEOLOGIC CORE LOG OF MJKK - 8(4/5)

1/200
m Direction
m Inclination
m Length m

MJJK - 8 150.0 m ~ 200.0 m

Level
X
Y

LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT								LAB. TEST				
					Au	Ag	Cu	Pb	Zn	As	Sb	Mo					
Is	150.5	Is, p-gry with bk band (10%), cri 150.5-152.8 cal patch															
	152.8 153.1	Is, wht with p-gry band, cri															
Is	154.9	154.9-157.1 cal patch, drusy															
	157.1																
	158.1 158.7	158.1 crushed with wht clay 0.5° 158.7-160.1 wk sil															
	160.2 160.4	160.2-160.4 crushed with pk clay 160.4-162.6 drusy															
Is	162.6	Is, wht with p-gry band, cri															
	164.3 164.7	164.3-164.7 crushed with wht clay															
Is	165.2	165.2-165.7 wk sil															
Is	166.8	20° shear with wht clay															
Is	167.7	10° ditto															
	168.5	5° ditto															
	169.2	10° ditto	168.7														
	169.7	10° ditto		K 801	<0.03	<1	14.8	<3.5	11.0	<1.5	<2.5	10.4					
	170.3	Is brecc with wht-pk clay, φ 2-5°	169.7	K 802	<0.03	<1	10.4	5	15.7	<1.5	<2.5	1.7					
	171.0	ga sk grn, with ls, pk clay	170.3	K 803	<0.03	<1	6.7	7	12.4	8	<2.5	0.9	X				
	171.2	171.2-5° ga sk grn, with ls	171.0	K 804	<0.03	<1	11.7	<3.5	15.5	2	<2.5	0.6					
	171.6	171.6-10° ditto	171.7	K 805	<0.03	<1	25.7	7	54.7	<1.5	<2.5	<0.5					
Is	173.3	Is, drusy p-gry															
	173.7	40° ga sk grn, with ls	173.3	K 806	0.03	<1	52.6	10	45.0	2	<2.5	0.9					
	174.3	173.7-60° crush with gry clay	173.7	K 807	0.09	<1	806.3	5	197.6	22	3	2.7	P				
Is	174.5	174.3-20° ga sk grn, with ls, wk grn-Cu	174.5	K 808	0.15	<1	802.0	<3.5	70.9	3	<2.5	1.7					
	175.7	175.7-176.3 crush with pk-wht clay	175.7	K 809	<0.03	<1	19.0	<3.5	16.2	<1.5	<2.5	<0.5					
	176.3		176.3														
	177.9	177.9-178.4															
	178.4	crushed with pk clay															
	178.8																
Is	180.6	Is, bre φ 0.5-2°, with wht clay															
Is	181.8 182.3	181.8-182.3 drusy															
	183.4	1° clay, brn															
	183.6	183.6-10° bre ls															
	184.4	184.4-20° bre ls															
Is	187.7	Is, wht with p-gry band, cri 10° clay wht															
	189.4	189.4-189.6 cal patch rich															
Is	191.2	191.2 2° crushed with pk clay															
	191.5	10° 5° wht clay															
Is	194.5	194.5-195.3 crushed with wht clay															
	195.3	195.5 10° sil ls															
Is	197.6																
Is	199.0	Is, bre φ 1-3°, with wht clay															

GEOLOGIC CORE LOG OF MJKK - 8 (5/5)

1/200
m Direction
m Inclination
m Length m

MJJK - 8 200.0 m ~ 223.2 m

Level
X
Y

LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT								LAB. TEST		
					Au	Ag	Cu	Pb	Zn	As	Sb	Mo			
ls	201.9	ls, p-gry													
ls	206.6	ls, bre ϕ 1-5°, ang-sub-ang, p-gry													
	207.2	wht clay with bre ls													
	210.0	ls, p-gry, bre ϕ 1-5, ang-sub-ang													
ls	211.7	210.0-211.7 ls,gry rich													
	213.5	ls, bre, crushed with wht clay													
	216.0														
ls	217.1	20° wht clay													
ls	219.4	ls, p-gry, bre,cri													
	220.0	ls, crushed, with wht clay													
ls	222.0	ls, p-gry, cri													
	223.2m	30° clay, brn													
ls		ls, bre ϕ 1-5°, ang.matrix wht cal													
		The End													

GEOLOGIC CORE LOG OF MJKK - 9 (1/2)

MJKK - 9 0.0 m - 50.0 m

Level
X
Y

1/200
m Direction
m Inclination
m Length
m

LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT								LAB. TEST	
					Au	Ag	Cu	Pb	Zn	As	Sb	Mo		
		Pebble & gravel of wht ls												
	11.8													
ls	14.5	ls, wht-p-gry												
		14.5-18.5 crushed with wht clay												
	18.3													
	18.5													
	18.8	18.5-18.8 sil ls												
	19.2	19.2-32.3 crushed with wht-pk clay												
ls														
ls		ls, wht-p-gry												
			29.4										T	27.8
	30.8	10° wk. sk. ls.	30.4	K901	<0.03	<1	73.6	<3.5	50.2	<1.5	3	0.6		30
	32.3		31.4	K902	<0.03	<1	270.4	6	193.1	<1.5	<2.5	0.7		
			32.4	K903	<0.03	<1	43.0	<3.5	37.9	<1.5	3	0.7		
		32.3-35.9 with wht clay												
	35.9													
		35.9-40.6 crushed with wht clay												
	40.6	60° slicken side grd.fng.grn wht-pk wht												
		40.6-44.2 stg crushed with wht clay												
	44.2													
	44.6	50° boundary between crushed and hard grd grd. p-grn-wht.ait												
		44.6-49.2 stg crushed with wht clay												
	47.3													
	48.1	dacitic rock, with ga sk, p-grn											T	47.6
	49.2	49.2-49.5 wht clay	49.5											
	49.5	49.5-49.7 ga sk with ls. wk grn-Cu	49.7	K904	0.62	<0.1	672.3	7	520.6	11	<2.5	0.8	PX	49.6
	49.7	49.7-50.5 sil ls												50

GEOLOGIC CORE LOG OF MJKK - 9 (2/2)

MJKK - 9 50.0 m - 87.3 m

Level
X
Y

1/200
m Direction
m Inclination
m Length

LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT							LAB. TEST	
					Au	Ag	Cu	Pb	Zn	As	Sb		Mo
	50.5	ls. sil	50.5	K905	<0.03	<1	190.1	<3.5	381.1	<1.5	4	0.7	
	51.6	grd. dk gry-pkish. hb, ep along joint	51.6	K906	<0.03	<1	65.4	12	126.0	<1.5	<2.5	3.4	
	52.6		52.6	K907	<0.03	<1	98.0	12	133.0	<1.5	3	1.0	
	53.6	grd with wk sk	53.6	K908	<0.03	<1	55.1	6	60.2	<1.5	<2.5	1.0	
	54.6	51.7-56.8 crushed	54.6	K909	<0.03	<1	41.1	7	50.1	<1.5	3	1.1	
	55.6		55.6	K910	<0.03	<1	28.5	10	59.5	<1.5	<2.5	1.2	
	56.3	grd with wk ep	56.3	K911	<0.03	<1	59.8	9	48.9	<1.5	3	1.3	
	56.8	56.8-57.3 grd. stg crushed with clay	56.8	K912	<0.03	<1	56.9	12	57.1	<1.5	<2.5	1.2	T
	57.3		57.3	K913	<0.03	<1	100.9	9	133.0	<1.5	<2.5	1.4	56.2
	58.1	58.1-58.3 grd. sil with wk grn-Cu	58.1	K914	<0.03	<1	149.6	<3.5	25.0	6	3	2.9	
	58.3	58.3-58.5 sk with wht clay. crushed	58.3	K915	0.06	<1	495.3	4	114.2	3	<2.5	1.5	
	58.5		58.5	K916	<0.03	<1	21.7	4	20.0	<1.5	3	1.0	
	59.5	grd. hb. gry	59.5										
	60.5	58.1-62.0 crushed	60.5	K917	<0.03	<1	10.0	7	12.5	<1.5	3	<0.5	
	62.0		62.0										
	63.6	63.6-63.8 crushed	63.6										
	63.8		63.8										
	66.4	sk. grn with grd. cal	66.4	K918	<0.03	<1	21.9	8	26.2	<1.5	<2.5	4.6	
	67.1	66.7-67.1 crushed	67.1	K919	<0.03	<1	15.0	4	35.7	6	<2.5	1.2	
	68.1	grd. hb. qz. bio. po-tic. gry	68.1	K920	<0.03	<1	14.7	14	33.3	<1.5	<2.5	1.0	
	70.1		70.1										
	71.8	70.1-76.7 crushed	71.8										
	71.8	71.8-81.7 ep along joint	71.8										
	76.7	grd. hb. gry	76.7										
	78.5	joint with wht clay	78.5										
	79.0	20° 79.0-79.2 crushed	79.0										
	79.2		79.2										
	80.0	80.0-80.4 crushed	80.0										
	80.4		80.4										
	80.8	80.8-81.2 crushed	80.8										
	81.2		81.2										
	85.2	grd. hb. gry	85.2										
	85.2	with wo cpx-sk	85.2										T
	86.4	85.2-86.4 crushed	86.4										84.3
	86.4	20° clay	86.4										
	87.3m	The End	87.3m										

GEOLOGIC CORE LOG OF MJKK - 10 (1/3)

1/200

MJKK - 10 0.0 m - 50.0 m

Level
X
Y

m Direction
m Inclination
m Length
m

LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT								LAB. TEST		
					Au	Ag	Cu	Pb	Zn	As	Sb	Mo			
	0														
		Pebble & gravel of wht ls													
	7.8														
ls		ls, wht-gry wht sil ls patch a little													
	10.6														
	12.0	10.6-12.0 crushed with wht clay													
ls															
	14.0														
	15.6	14.0-19.4 crushed with wht clay 15.6-20° brecc													
	19.4														
ls	19.9	0.5° brn clay													
	20.9	10° 19.8-20.9 wk drusy crl													
		20.9-28.7 crushed with wht clay													
	27.4	27.4-30° clay. wht													
	28.7														
ls															
	30.5	50° clay. wht													
	31.0														
ls		31.0-32.8 sil ls. wht-p-gry													
	32.8	crushed with wht clay													
	33.5														
ls															
	34.7	crushed with wht clay													
	35.2	sil ls													
ls															
	36.1	crushed with wht clay													
	36.7	36.7-36.9 sil ls													
	36.9	36.9-37.6 crushed													
	37.6														
ls		ls g-gry													
	39.4	39.4-39.9 crushed													
	39.9	sil ls													
ls															
	40.8	crushed													
	41.7														
ls		ls, p-gry, crl													
	45.7														
	46.2	crushed													
ls															
	48.5	sil ls													
	50.0														

GEOLOGIC CORE LOG OF MJKK - 10 (2/3)

1/200

MJJK - 10 50.0 m - 100 m

Level
X
Y

m Direction
m Inclination
m Length

LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT							LAB. TEST	
					Au	Ag	Cu	Pb	Zn	As	Sb		Mo
Is	51.8	Is, sil, wht with p-gry band 51.8m grn- Cu											
Is	54.2	Is, stg sil, wht with p-gry band	53.6										
Is	54.6	51.8-54.6 sil ls with wk sk	54.6	K001	<0.03	<1	394.1	7	72.1	2	<2.5	1.0	
Is	55.4	10° clay pk, crushed andesite, hb alt brn-gry	54.6	K002	<0.03	<1	96.2	13	42.6	2	<2.5	1.8	T
Is	57.0	stg sil ls	55.4	K003	<0.03	<1	227.0	7	67.1	4	<2.5	1.0	54.9
Is	57.9	sil ls	56.4										
Is	59.0	57.9-59.0 drusy											
Is	61.1	Is, cri, wht with p-gry band											
Is	62.5	1° qz-cal v, druse											
Is	66.0	Is, wk sil											
Is	68.5	Is, sil, wht with p-gry band	66.0										
Is	68.5	Is, sil, wht with p-gry band	67.5	K004	<0.03	<1	28.5	4	21.4	<1.5	<2.5	<0.5	
Is	68.5	Is, sil, wht with p-gry band	68.5	K005	<0.03	<1	30.9	<3.5	24.2	<1.5	<2.5	<0.5	
Is	70.8	Is, stg sil, gry wht with p-gry band	69.8	K006	<0.03	<1	78.2	10	60.5	<1.5	<2.5	<0.5	
Is	70.8	hb andesite, brn gry	70.8	K007	<0.03	<1	32.8	8	57.8	<1.5	<2.5	0.7	X
Is	72.0	ga sk, p-grn	71.6	K008	<0.03	<1	157.6	24	79.1	<1.5	<2.5	2.1	71.6
Is	72.3	Is, wht with p-gry band, part wk sil	72.3	K009	<0.03	<1	162.1	12	54.2	4	<2.5	1.7	71.7
Is	75.7	Is, wht with p-gry band, part wk sil	73.3	K010	<0.03	<1	102.6	10	163.3	<1.5	<2.5	0.5	S
Is	75.7	Is, wht with p-gry band, part wk sil	74.3	K011	<0.03	<1	37.2	<3.5	16.8	<1.5	<2.5	<0.5	
Is	77.7	Is, stg sil, wht with sk p-gry grn band(5-10%)	75.7	K012	<0.03	<1	14.2	<3.5	14.8	<1.5	<2.5	<0.5	
Is	78.9	Is, stg sil, wht with sk p-gry grn band(5-10%)	76.7	K013	<0.03	<1	10.7	15	9.6	2	<2.5	<0.5	
Is	80.7	Is, crushed with wht -pk clay	77.7	K014	<0.03	<1	26.7	<3.5	16.5	<1.5	<2.5	<0.5	
Is	81.5	Is, sil with sk	78.9	K015	<0.03	<1	9.8	<3.5	9.4	<1.5	<2.5	<0.5	
Is	82.5	Is, with wht clay	80.7	K016	<0.03	<1	19.9	<3.5	8.8	<1.5	<2.5	<0.5	
Is	82.5	Is, with wht clay	80.7	K017	<0.03	<1	7.3	<3.5	9.2	<1.5	<2.5	<0.5	
Is	83.5	Is, with wht clay	81.5	K018	<0.03	<1	9.3	<3.5	9.0	<1.5	<2.5	<0.5	
Is	84.5	Is, with wht clay	82.5	K019	<0.03	<1	8.8	<3.5	8.2	2	<2.5	<0.5	
Is	85.5	Is, with wht clay	83.5	K020	<0.03	<1	13.0	<3.5	4.8	<1.5	<2.5	<0.5	
Is	86.5	Is, stg sil wht with p-gry-grn sk band (bedding 0°-20°)	84.5	K021	<0.03	<1	11.4	<3.5	5.0	<1.5	<2.5	<0.5	
Is	88.5	Is, stg sil wht with p-gry-grn sk band (bedding 0°-20°)	85.5	K022	<0.03	<1	10.4	4	5.4	<1.5	<2.5	<0.5	
Is	89.5	Is, stg sil wht with p-gry-grn sk band (bedding 0°-20°)	86.5	K023	<0.03	<1	18.3	<3.5	5.7	<1.5	<2.5	<0.5	
Is	91.4	90.9m ccp, bo imp	87.5	K024	<0.03	<1	13.6	<3.5	5.6	<1.5	<2.5	5.2	
Is	91.8	40° qz-cal-ep v, druse, grn sk (-91.4 ls, wht 91.4-Is, p-grn-wht)	88.5	K025	<0.03	<1	10.0	<3.5	5.2	<1.5	<2.5	0.6	
Is	92.9	Is, crushed, with wht clay	89.5	K026	<0.03	<1	27.3	<3.5	8.7	<1.5	<2.5	<0.5	
Is	93.4	clay, p-grn-pk, with wk sk, cal	90.5	K027	<0.03	<1	124.3	<3.5	10.3	4	<2.5	<0.5	F
Is	95.0	Is, sil, p-grn-wht	91.4	K028	<0.03	<1	26.0	<3.5	15.6	<1.5	<2.5	<0.5	91.6
Is	95.0	95.0-10° sk with sil ls, grn-Cu a little	91.8	K029	<0.03	<1	44.8	<3.5	13.6	<1.5	<2.5	<0.5	X
Is	95.3	95.3-10° ls sil with sk, grn-Cu, bo	92.9	K030	0.07	<1	344.3	<3.5	15.3	2	<2.5	<0.5	92.9
Is	95.6	95.4-95.6 ls, stg sil	93.4										
Is	95.6	95.6-20° sil ls											
Is	96.9	95.8-96.9 wk sil ls	95.0	K031	<0.03	<1	342.3	<3.5	13.1	2	3	<0.5	
Is	98.0	Is, sil, with wk ga sk, grn-Cu a little	95.3	K032	<0.03	4	3418	7	160.5	2	<2.5	0.5	
Is	98.0	93.5<5° 2° cal v, bo imp	95.6	K033	<0.03	<1	109.7	<3.5	8.6	<1.5	<2.5	<0.5	
Is	98.0	94.8<5° 2° cal v, bo imp	96.9	K034	<0.03	1	1293	<3.5	36.1	<1.5	<2.5	<0.5	X
Is	98.0	95.6<5° 0.1° cal v, let, p-gry bo	98.0	K035	<0.03	1	1707	6	32.1	<1.5	<2.5	<0.5	98.0
Is	98.0	96.2<10° 10° p-gry sk, bo imp	99.0										
Is	98.0	97.1 10° bo imp	99.0										
Is	98.0	98.0-Is, p-grn-wht stg sil with wk sk	100.0	K036	<0.03	<1	1025	4	30.7	<1.5	<2.5	<0.5	
Is	98.0	band (5-10%) p-grn 98.5<10° 2° sk, bo>> ccp imp											
Is	98.0	bedding 0-20°											

GEOLOGIC CORE LOG OF MJKK - 10 (3/3)

1/200

MJKK - 10 100.0 m - 143.0 m

Level X Y

m Direction m Inclination m Length m

LITHO-LOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT							LAB. TEST		
					Au	Ag	Cu	Pb	Zn	As	Sb		Mo	
	100.4													
	101.1	ls, stg sil 100.4-10° wk sk with pk cal,grn-Cu	101.0	K037	<0.03	<1	70.4	<3.5	7.1	<1.5	<2.5	<0.5		
	102.0	ls, sil, with wk sk, grn-Cu a little	102.0	K038	0.05	<1	412.2	<3.5	9.5	2	<2.5	<0.5	T	
	102.6	ls, sil	101.9	K039	<0.03	<1	313.5	<3.5	10.5	<1.5	3	<0.5		
	103.5	2° cal v. ls, sil, with wk sk, grn-Cu a little	103.0	K040	<0.03	<1	306.3	<3.5	14.8	2	<2.5	0.7	P	
	104.2	0.1° cal v.-let, bo	104.0	K041	<0.03	<1	189.6	<3.5	18.1	<1.5	<2.5	<0.5		104.2
	104.4	1° max cal v.-let, bo 104.8-105.0m bo imp												
	105.5	0.3° cal v.-let,bo 105.5-1s, stg, sk band(0-20°, 5-10%)	105.0	K042	0.04	<1	160.1	<3.5	9.9	<1.5	<2.5	<0.5		104.4
	106.7	0.2° cal v.-let, dk-grn, bo 105m-114m cal v.-let with bo many	106.0	K043	0.11	<1	170.7	<3.5	14.3	<1.5	3	<0.5		
	108.2	10° ga sk, p-grn, grn-Cu, cal	107.0	K044	0.25	<1	466.4	<3.5	11.5	<1.5	<2.5	<0.5		
	108.7	1° cal v.-let, ga sk, bo a little	108.0	K045	0.09	<1	203.3	4	10.4	2	<2.5	<0.5		
	109.7	10° cal v.	109.0	K046	0.08	<1	174.3	<3.5	9.3	<1.5	3	<0.5		
	111.0	2° cal v. porous, bo	110.0	K047	0.07	<1	227.3	<3.5	6.8	<1.5	<2.5	<0.5		
	111.6	0.3° cal v.-let, bo >ccp	111.0	K048	<0.03	<1	120.0	<3.5	6.9	<1.5	<2.5	<0.5		
		ls, stg, sil, gry wht	112.0	K049	0.11	<1	327.3	<3.5	7.9	<1.5	<2.5	<0.5		
	113.7	2° cal v. druse	113.0	K050	0.20	<1	273.3	<3.5	7.5	<1.5	<2.5	<0.5		
	113.9	2° sk band, grn, bo	114.0										P	113.9
	115.0	1° qz v. druse	115.0	K051	0.10	<1	232.2	<3.5	9.7	<1.5	<2.5	<0.5		
	115.2	0.5° cal v. p-grn, bo >ccp	115.0										F	115.0
	115.5	1° cal v. druse	115.0	K052	0.05	<1	370.1	<3.5	13.3	<1.5	3	<0.5		
	116.2	20° cal-qz v. with 0.2° cal v.-let, p-grn, bo, grn-Cu	116.0	K053	<0.03	<1	98.5	<3.5	11.8	<1.5	<2.5	<0.5		
	117.1	0.1° cal v.-let, p-grn, bo a little	116.0	K054	0.04	<1	58.7	<3.5	13.0	<1.5	3	0.5		
	119.0	0.1° cal v.-let, grn, bo a little	118.0	K055	<0.03	<1	73.7	6	10.3	2	<2.5	3.4		
	119.6	1° cal v.-let, bo a little	119.0	K056	0.04	<1	78.2	11	10.5	<1.5	<2.5	<0.5		
	120.3	0.3° cal v. gry, bo	120.0	K057	<0.03	<1	32.2	21	11.8	<1.5	<2.5	<0.5		
	120.7	1° p-grn sk, bo a little	120.0	K058	<0.03	<1	42.8	6	9.1	<1.5	<2.5	<0.5		
	122.3	2° cal v. druse	121.0	K059	<0.03	<1	37.4	17	10.2	<1.5	<2.5	<0.5		
		ls, stg sil, p-grn-wht	123.0	K060	0.10	<1	68.9	6	11.7	<1.5	<2.5	<0.5		
	124.9	123.9 bo imp a little	124.0	K061	0.05	<1	197.6	5	11.5	<1.5	<2.5	<0.5		
	125.8	0.1° cal v., bo >ccp	125.0	K062	0.09	<1	125.2	4	6.7	2	<2.5	<0.5		
	126.6	0.5° cal v. bo	126.0	K063	0.09	<1	114.9	<3.5	6.3	<1.5	<2.5	<0.5		
	127.6	3° qz+cal v. wht-pk 127.7m bo imp	127.0	K064	<0.03	<1	55.7	12	8.9	<1.5	<2.5	<0.5		
	128.5	1° cal v. gry, bo a little	128.0	K065	0.07	<1	119.2	4	9.7	2	<2.5	<0.5		
	129.7	0.5° cal v. gry, bo a little	129.0	K066	<0.03	<1	98.9	16	13.3	2	<2.5	<0.5		
	130.1	130.1-130.4 grd, sil, p-brn-grn	130.0	K067	0.05	<1	287.1	20	17.5	<1.5	<2.5	<0.5		
	130.4	130.4-130.5 ls, cri, p-grn	131.0	K068	0.28	<1	728.8	13	70.2	<1.5	<2.5	0.6		
	131.0	1° cal v., 130.5-131.5 grd, wht, sil, altered	132.0	K069	0.04	<1	67.0	16	23.7	<1.5	<2.5	<0.5		
	131.5	1-2° cal v. grn, bo, grn-Cu	133.0	K070	0.04	<1	86.2	26	53.4	<1.5	<2.5	0.8		
		grd, hb, qz, ep, grn-gry, with wk sk	134.0	K071	0.22	<1	96.5	16	44.8	<1.5	<2.5	1.1		
	134.6	0.5° cal v. bk-metallic mineral, ep	135.0	K072	0.30	<1	120.9	22	70.9	<1.5	<2.5	0.9		
	135.0	2° cal v. druse, ep	136.0	K073	0.07	<1	60.2	14	34.8	2	<2.5	1.4		
	135.5	2° cal v. ep, ga(?), bk-metallic mineral a little, druse	137.0	K074	0.06	<1	69.1	14	36.0	<1.5	<2.5	2.6		
	137.8	137.8-139.7 grd, with sk	138.0	K075	0.12	<1	60.6	13	20.4	<1.5	4	0.9		
	139.1	1° cal v. druse	139.0	K076	0.06	<1	56.3	11	21.4	<1.5	3	1.4		
	139.7	3° cal v., ep 139.7-140.7 grd, with ep	140.0	K077	0.15	<1	181.3	21	38.1	<1.5	<2.5	0.7		
	140.4	1° qz v., ep	141.0	K078	<0.03	<1	80.4	15	28.8	<1.5	<2.5	0.7		
	140.7	140.7-143 grd, grn-gry, hb, qx, non ep, with sk	142.0	K079	<0.03	<1	36.4	11	16.4	<1.5	<2.5	0.5		
	143.0m	The End	143.0											

GEOLOGIC CORE LOG OF MJKK - 10(3/3-a)

MJKK - 10 105.0 m - 130.0 m

Level
X
Y

1/100
m Direction
m Inclination
m Length
m

LITHO- LOGY	DEPTH (m)	DESCRIPTORS	DEPTH (m)	SAMPLE No.	ASSAY RESULT								LAB. TEST		
					Au	Ag	Cu	Pb	Zn	As	Sb	Mo			
	105.0														
	105.5	70° 105.5-30° 0.1° cal v-let, dk grn, bo ls, stg sil, wht with sk band p-grn (0-20°, 5-10%)													
	106.7	85° 0.2° cal v-let, dk-grn, bo													
	106.9														
	107.5	85° 0.05° cal v-let, dk grn, bo a little													
	108.0	108.0-20° ls, wht, crl, porous													
	108.3	40° 10° ga sk, p-grn, grn Cu, cal													
	108.7	10° 1° cal v-let, ga sk, bo a little ls, stg sil, gry wht													
	109.7	70° 10° cal v, pk, porous, wk sk, bo													
	110.2	70° 0.05° cal v-let, dk grn, bo a little													
	110.7														
	111.0	60° 0.2° cal v-let, bo a little 80° 2° cal v., porous, bo													
	111.6	75° 0.3° cal v-let, bo>ccp ls, stg sil, gry wht													
	113.1														
	113.4	85° 0.1° cal v-let bo a little													
	113.7	80° 0.1° cal v-let, bo, grn-Cu													
	113.9	25° 2° cal v, druse													P
	114.0	50° 2° sk band, grn, bo 80° 0.1° cal v-let bo a little													X
	115.0														X
	115.2	70° 1° cal v, druse													X
	115.5	70° 0.5° cal v, p-grn, bo>ccp 70° 1° cal v, druse													X
	116.2	75° 20° cal v, with 0.2° cal v-let p-grn, bo, grn-Cu													X
	117.1	80° 0.1° cal v-let, p-grn, bo a little ls, stg sil, wht													X
	119.0	60° 0.1° cal v-let, grn, bo a little													X
	119.6	30° 1° cal v, bo a little													X
	120.0														X
	120.3	80° 0.3° cal v, gry, bo													X
	120.7	20° 1° p-grn sk, bo a little													X
	122.3	60° 2° cal v, druse ls, stg sil													X
	123.9	123.9 bo imp a little													X
	124.9	80° 0.1° cal v, bo>ccp													X
	125.0														X
	125.7	50° 0.1° cal v-let, grn, bo a little													X
	126.2	40° 0.5° cal v, bo													X
	126.5	80° 0.2° cal v, bo													X
	126.6	70° 0.1° cal v-let, grn, bo 60° 15° cal v, druse													X
	127.6	10° 3° qz+cal v, wht-pk 127.7 bo imp													X
	128.1	40° 0.5° cal v													X
	128.3	joint													X
	128.5	85° joint 80° 1° cal v, gry, bo a little													X
	129.7	70° 0.5° cal v, grn, bo a little													X
	130.0	~ 130.1 stg sil ls p-grn-wht													X

GEOLOGIC CORE LOG OF MJKK - 10(3/3-b)

MJJK - 10 130.0 m - 143.0 m

Level
X
Y

1/100
m Direction
m Inclination
m Length
m

LITHO-LOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT								LAB. TEST	
					Au	Ag	Cu	Pb	Zn	As	Sb	Mo		
	130.0													130
	130.1	130.1-130.4 grd,sil, p-brn-grn												
	130.4	ls, cri, p-gry												
	130.5	grd, wht, altered, sil												
	131.0	1° cal v												P
	131.4	1-2° cal v, grn, bo, grn-Cu	80°											131.1
	131.5	grd, altered, p-grn	85°											
		grd, hb, qz, ep, grn-gry												
	134.6													
	134.9	0.5° cal v, bk metaric mineral, ep	85°											
	135.0	1° cal, druse	65°											
	135.5	2° cal, druse, ep	85°											
		2° cal v, ep, ga(?), bkMM a little, druse	85°											P
														135.8
	137.8	137.8-139.7 grd, non ep												
	138.4	0.5° cal v, druse, <55° 0.5° cal v, wht	35°											
	139.1	1° cal v, druse												
	139.7	3° cal v, ep	55°											
	140.0	139.7-140.7 grd, with ep	5°											
	140.4	1° cal v, ep												F
	140.7	140.7-grd, grn-gry, hb, qz, non ep	80°											140.4
														T
														142.6
	143.0	The End												
	145.0													145
	150.0													150
	155.0													155

Appendix 11 (1) Miscellaneous Results on Individual Drillhole

(MJKK-8)

	Period			Breakdown of period		Total persons
	from	to	Total days	Working days	Out of working days	
Preparation	18 July. '99	18 July. '99	0.5	0.5	0.0	8
Drilling	18 July. '99	07 Aug. '99	20.0 ①	20.0②	0.0	317
Dismount	07 Aug. '99	08 Aug. '99	1.5	1.5	0.0	24
Total	18 July. '99	08 Aug. '99	22.0	22.0	0.0	349
Drilling length						
Programmed length	220.0 m		Soil, Alluvium etc			7.8 m
Prolongation	3.0 m		Core length			218.7 m
Effective length	223.2 m③		Core recovery			98.0%
Working hours				Core recovery by each 50 meters		
Drilling	136 h	25.8%	Length (m)	Each (%)	Cumula. (%)	
Supplemental drilling work	344 h	65.2%	0 - 50	94.3	94.3	
Recovery of accident	0 h	0.0%	50 - 100	97.3	95.8	
Preparation/setting up	12 h	2.3%	100 - 150	99.9	97.1	
Dismount/mobilization	36 h	6.8%	150 - 200	99.8	97.8	
Others	0 h	0.0%	200 - 223	99.6	98.0	
			Efficiency			
			Effective length ③ / Working drilling days②			
			11.2 m/d			
			Effective length ③ / Total drilling days ①			
Total	528 h	100%	11.2 m/d			
Drilling length by diameter						
Bit diameter	φ 112mm	φ 93mm	HQ	NQ	BQ	Total
Drilling length	1.0 m	2.6 m	3.6 m	216.0 m		223.2 m
Core length	1.0 m	2.6 m	3.6 m	211.5 m		218.7 m
Inserted casing pipes						
Inserted length by diameter		Inserted length / Drilled length			Withdrawal of pipes	
108mm	3.6 m	1.6 %			100 %	
89mm	26.0 m	11.6 %			100 %	

Appendix 11 (2) Miscellaneous Results on Individual Drillhole

(MJKK-9)

	Period			Breakdown of period		Total persons
	from	to	Total days	Working days	Out of working days	
Preparation	18 July. '99	18 July. '99	0.5	0.5	0.0	8
Drilling	18 July. '99	29 July. '99	11.0 ①	11.0②	0.0	174
Dismount	29 July. '99	29 July. '99	0.5	0.5	0.0	8
Total	28 July. '99	29 July. '99	12.0	12.0	0.0	190
Drilling length						
Programmed length	87.0 m	Soil, Alluvium etc				11.8 m
Prolongation	0.3 m	Core length				84.2 m
Effective length	87.3 m ③	Core recovery				96.4%
Working hours			Core recovery by each 50 meters			
Drilling	72 h	25.0%	Length (m)	Each (%)	Cumula. (%)	
Supplemental drilling work	192 h	66.7%	0 - 50	98.1	98.1	
Recovery of accident	0 h	0.0%	50 - 87	94.1	96.4	
Preparation/setting up	12 h	4.2%				
Dismount/mobilization	12 h	4.2%				
Others	0 h	0.0%				
			Efficiency			
			Effective length ③ /Working drilling days②			
			7.9 m/d			
			Effective length ③ /Total drilling days ①			
			7.9 m/d			
Total	288 h	100%				
Drilling length by diameter						
Bit diameter	φ 112mm	φ 93mm	HQ	NQ	BQ	Total
Drilling length	6.2 m	5.6 m	27.7 m	47.8 m		87.3 m
Core length	6.2 m	5.6 m	26.8 m	45.6 m		84.2 m
Inserted casing pipes						
Inserted length by diameter		Inserted length / Drilled length		Withdrawal of pipes		
108mm	11.0 m	12.6 %		100 %		
89mm	39.5 m	45.2 %		100 %		

Appendix 11 (3) Miscellaneous Results on Individual Drillhole

(MJKK-10)

	Period			Breakdown of period		Total persons
	from	to	Total days	Working days	Out of working days	
Preparation	29 July. '99	29 July. '99	0.5	0.5	0.0	4
Drilling	29 July. '99	09 Aug. '99	11.0 ①	11.0②	0.0	176
Dismount	09 Aug. '99	10 Aug. '99	1.5	1.5	0.0	24
Total	29 July. '99	10 Aug. '99	13.0	13.0	0.0	204
Drilling length						
Programmed length	143.0 m		Soil, Alluvium etc			7.8 m
Prolongation	0.0 m		Core length			142.2 m
Effective length	143.0 m③		Core recovery			99.4%
Working hours			Core recovery by each 50 meters			
Drilling	98 h	31.4%	Length (m)	Each (%)	Cumula. (%)	
Supplemental drilling work	166 h	53.2%	0 - 50	100.0	100.0	
Recovery of accident	0 h	0.0%	50 - 100	100.0	100.0	
Preparation/setting up	12 h	3.8%	100 - 142	98.1	99.4	
Dismount/mobilization	36 h	11.5%				
Others	0 h	0.0%				
			Efficiency			
			Effective length ③ / Working drilling days②			
			13.0 m/d			
			Effective length ③ / Total drilling days ①			
			13.0 m/d			
Total	312 h	100%				
Drilling length by diameter						
Bit diameter	φ 112mm	φ 93mm	HQ	NQ	BQ	Total
Drilling length	4.1 m	3.7 m	31.9 m	103.3 m		143.0 m
Core length	4.1 m	3.7 m	31.9 m	102.5 m		142.2 m
Inserted casing pipes						
Inserted length by diameter		Inserted length / Drilled length			Withdrawal of pipes	
108mm	7.5 m	5.2 %			100 %	
89mm	40.0 m	30.0 %			100 %	

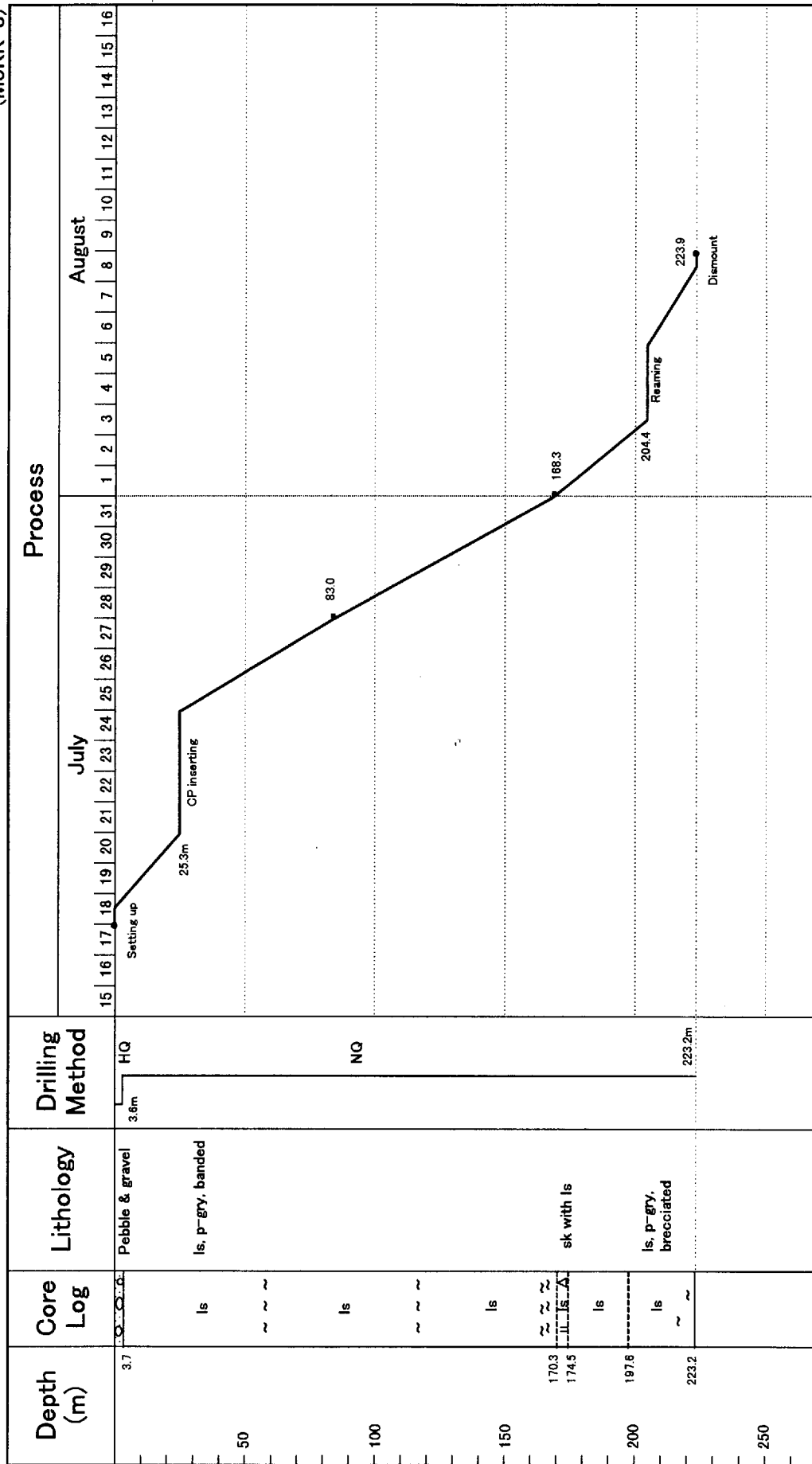
Appendix 12 Articles of Consumption and Drilling Parts

Item	Specifi- cation	Unit	Quantity			
			MJKK-8	MJKK-9	MJKK-10	Total
Diesel oil		liter	4,830	2,640	2,980	10,450
Gasoline		liter	0	0	0	0
Hydraulic oil	}					
Engine oil		liter	179	100	100	379
Rod grease	}					
Screw grease		kg	54	44	49	147
Bentonite		bag	104	20	5	129
C.M.C		kg	151	82	70	303
Cement		bag				
Lost-circulation material		kg	151	82	70	303
Clear mud		m ³				
Soda calcium		kg				
Diamond bit	HQ	pc	1	2	2	5
Diamond bit	NQ	pc	8	4	5	17
Diamond reamer	HQ	pc	1	1	1	3
Diamond reamer	NQ	pc	4	2	3	9
Metal crown	φ 132mm	pc				
Metal crown	φ 112mm	pc	2	10	8	20
Metal crown	φ 93mm	pc	4	5	3	12
Metal crown	φ 74mm	pc				
Core box		pc	75	29	49	153

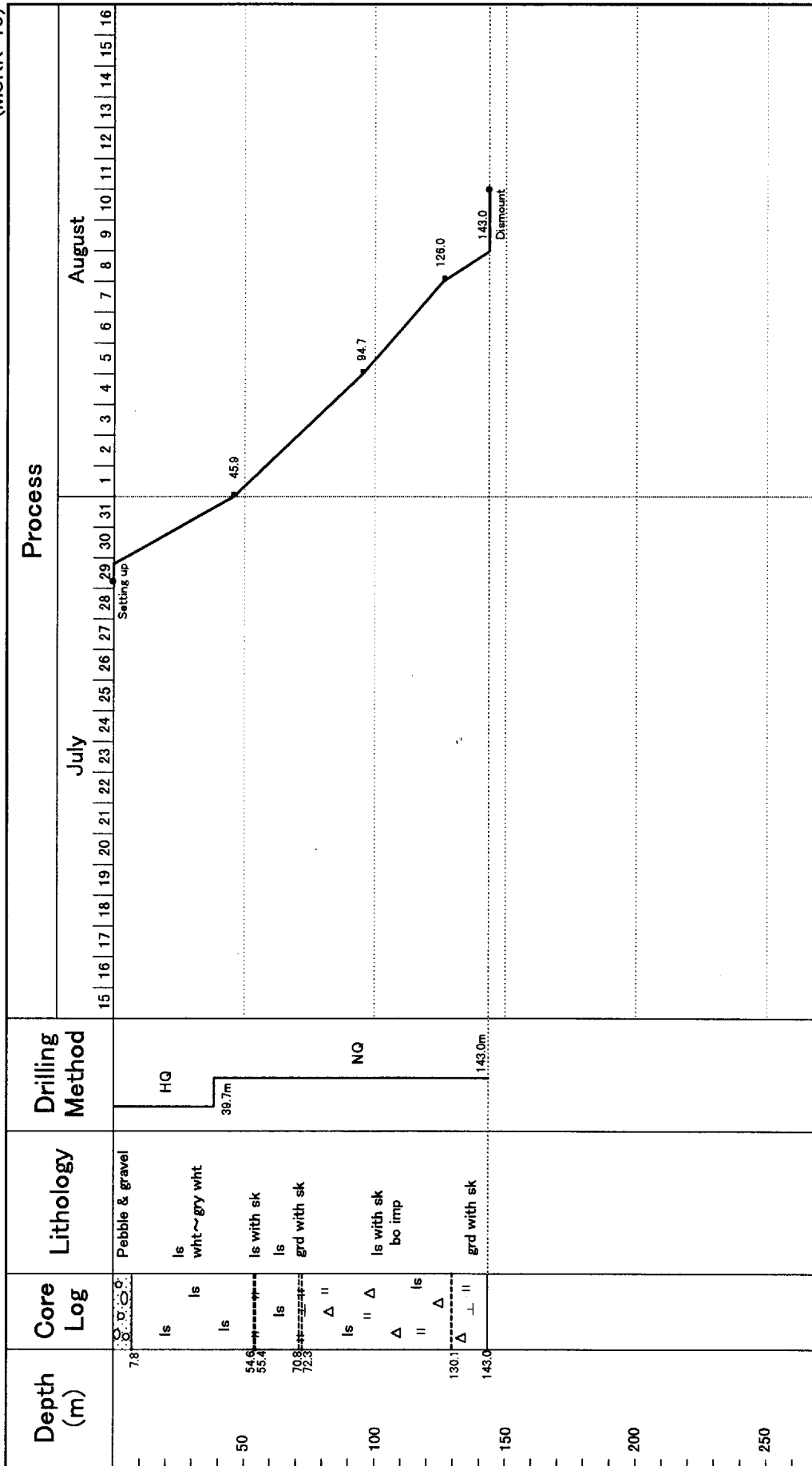
Appendix 13 Drilling Length of Diamond Bits

Size	Bits (pcs)	Drilling length (m)			Total (m)	Efficiency (m/bit)
		MJKK-8	MJKK-9	MJKK-10		
φ 112mm	2	1.0			1.0	0.5
	10		6.2		6.2	0.6
	8			4.1	4.1	0.5
Sub total	20	1.0	6.2	4.1	11.3	0.6
φ 93mm	4	2.6			2.6	0.7
	5		5.6		5.6	1.1
	3			3.7	3.7	1.2
Sub total	12	2.6	5.6	3.7	11.9	1.0
HQ	1	3.6			3.6	3.6
	2		27.7		27.7	13.9
	2			31.9	31.9	16.0
Sub total	5	3.6	27.7	31.9	63.2	12.6
NQ	8	216.0			216.0	27.0
	4		47.8		47.8	12.0
	5			103.3	103.3	20.7
Sub total	17	216.0	47.8	103.3	367.1	21.6
Grand total	54	223.2	87.3	143.0	453.5	8.4

(MJKK-8)



Appendix 14 (1) Progress Record of Diamond Drilling (MJKK-8)



Appendix 14 (3) Progress Record of Diamond Drilling (MJJK-10)