

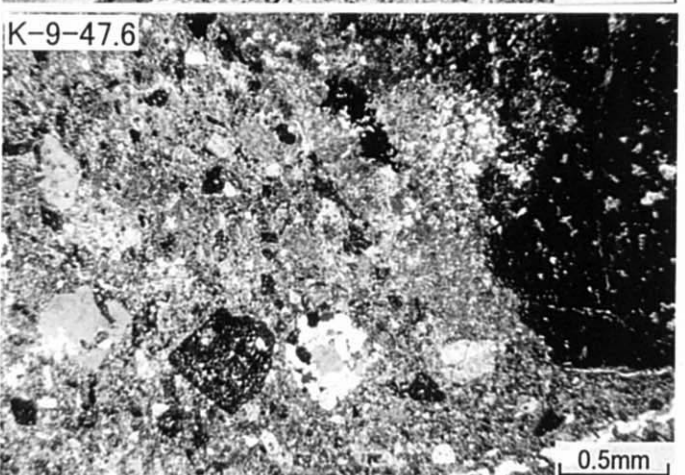
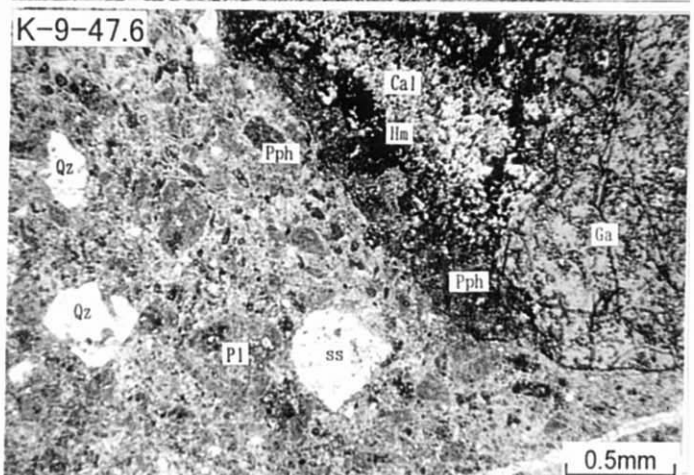
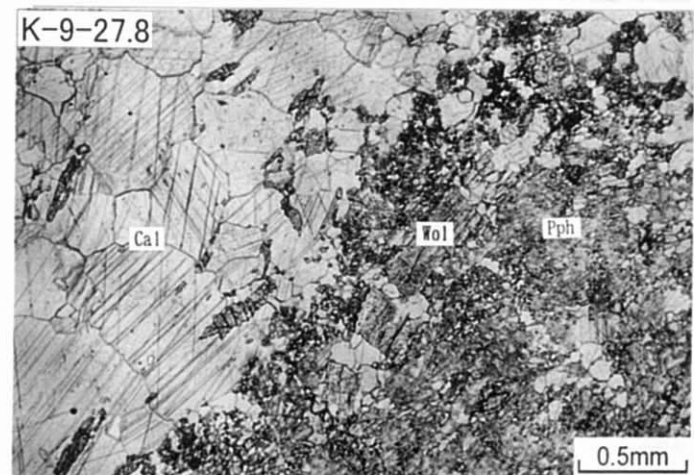
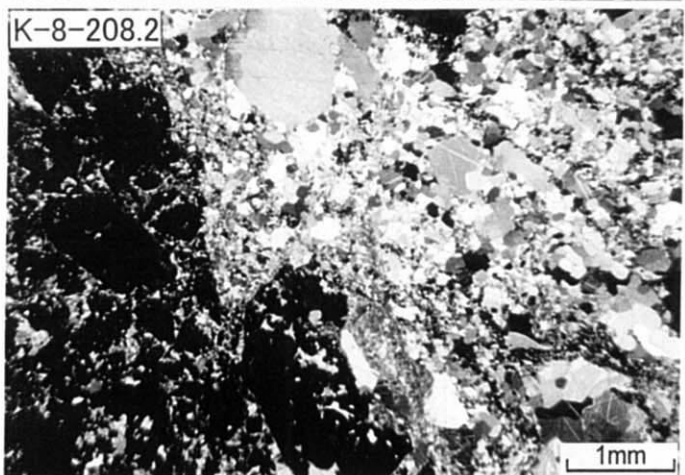
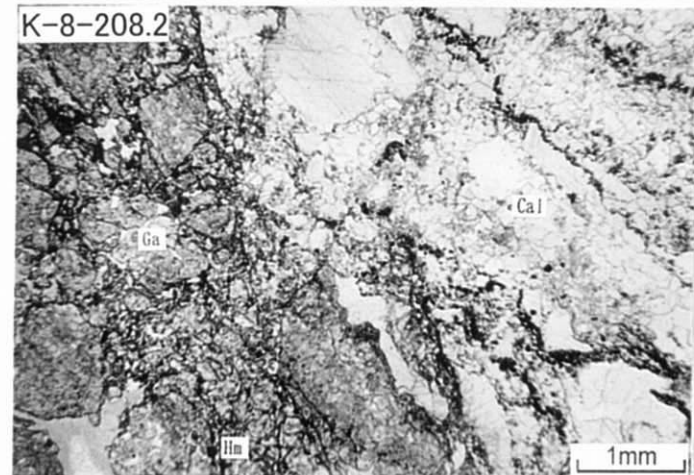
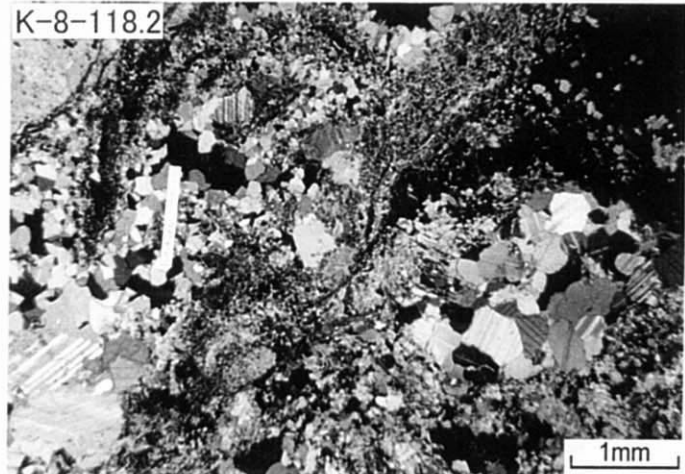
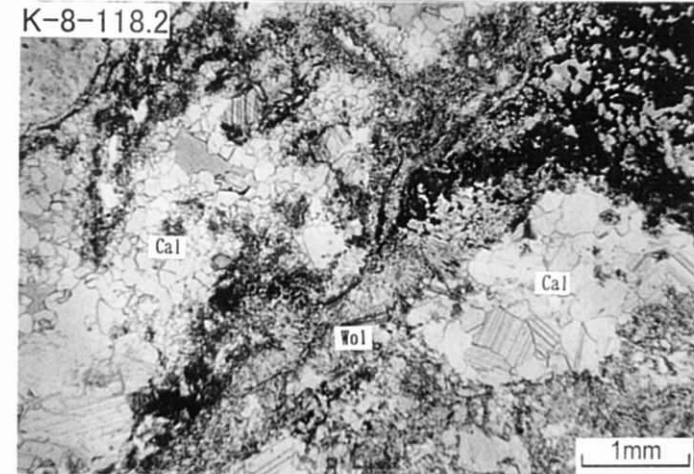
# Appendices



Appendix 2 (1) Photomicrographs of the Thin Sections

Plane polarized light

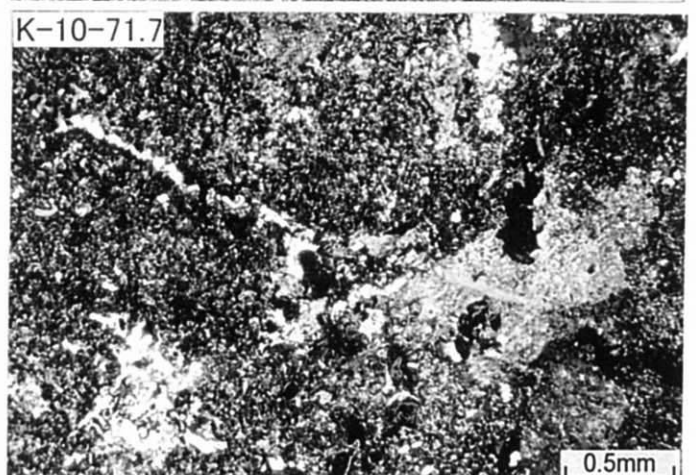
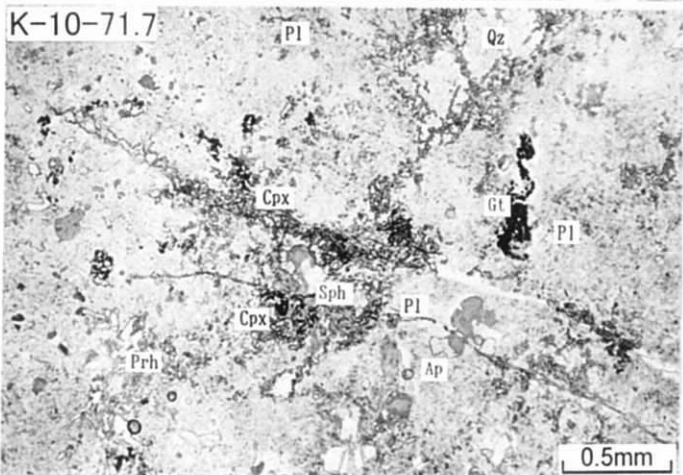
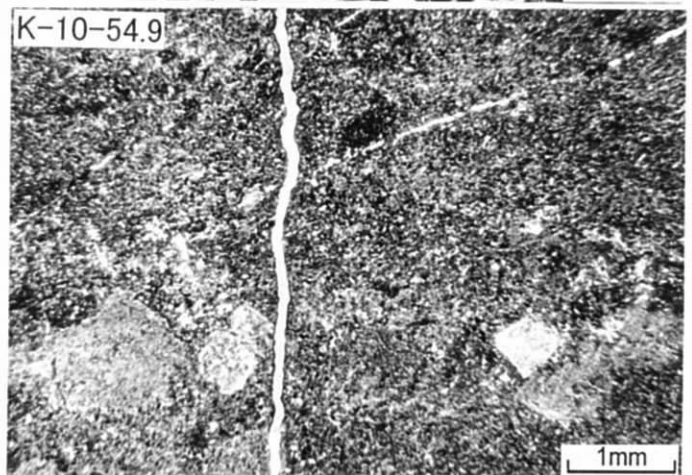
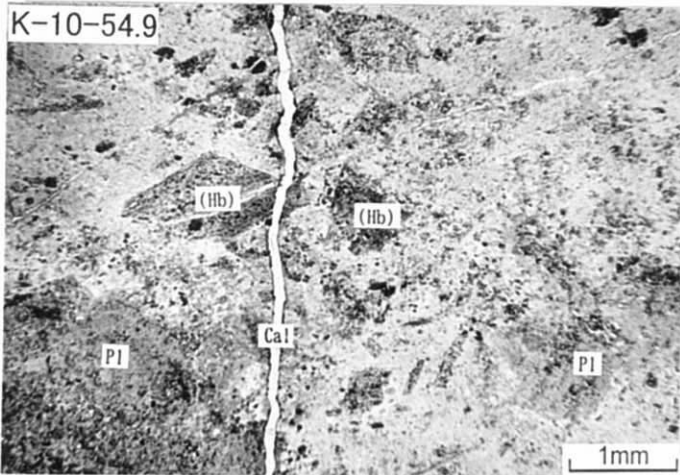
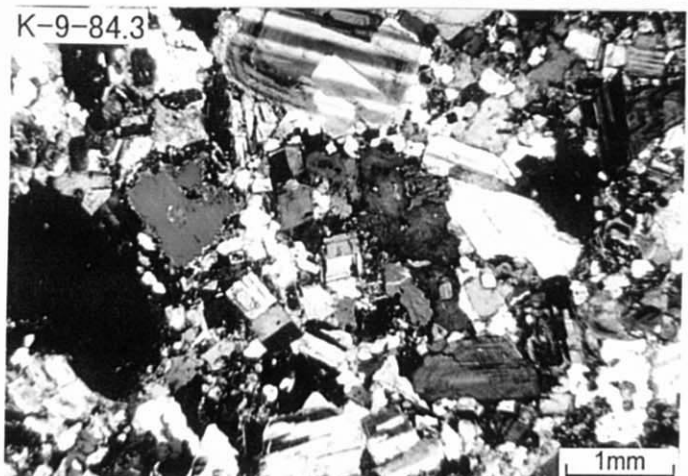
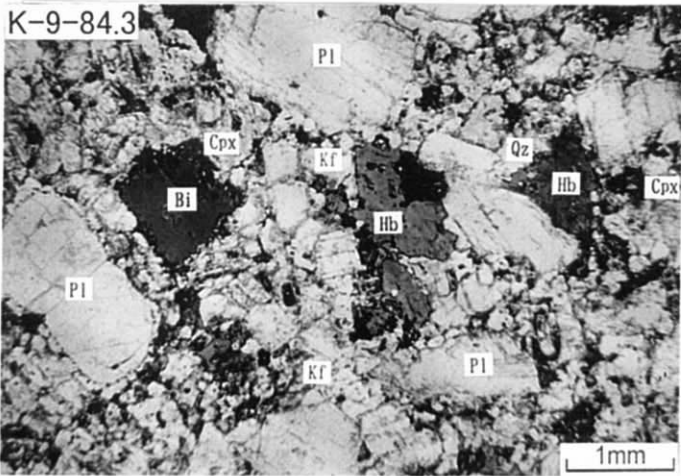
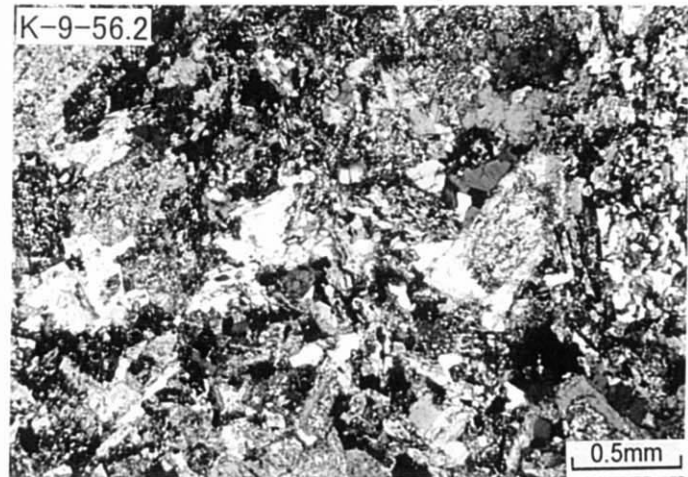
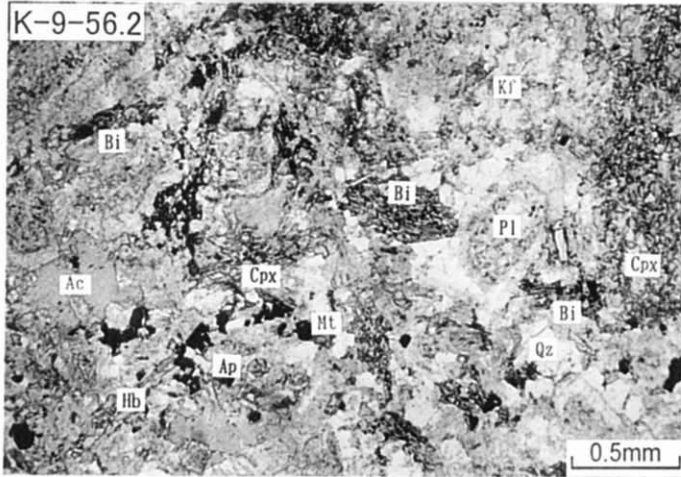
Crossed polarized light



Appendix 2 (2) Photomicrographs of the Thin Sections

Plane polarized light

Crossed polarized light

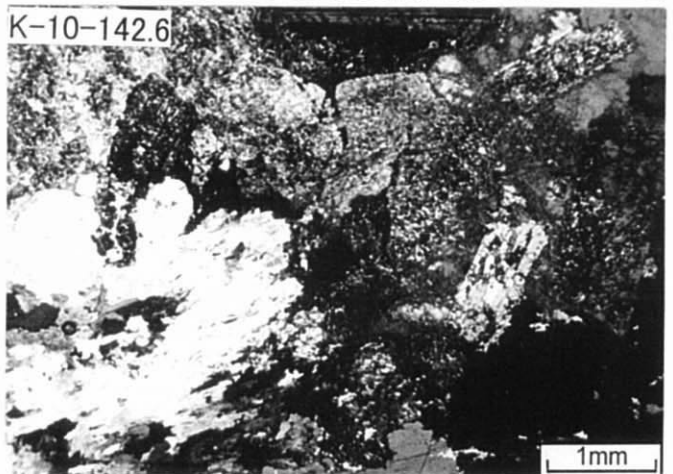
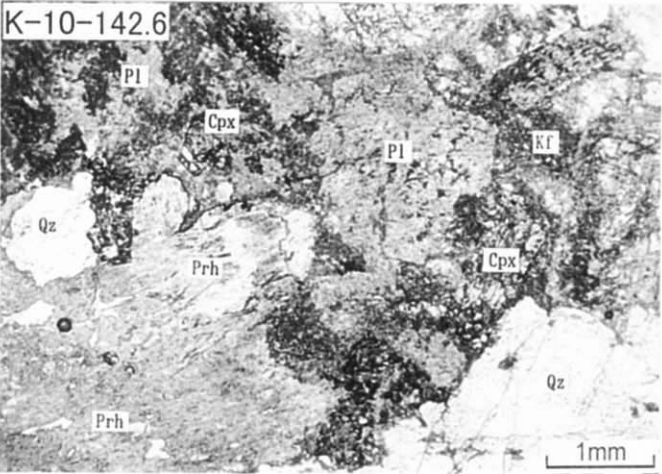
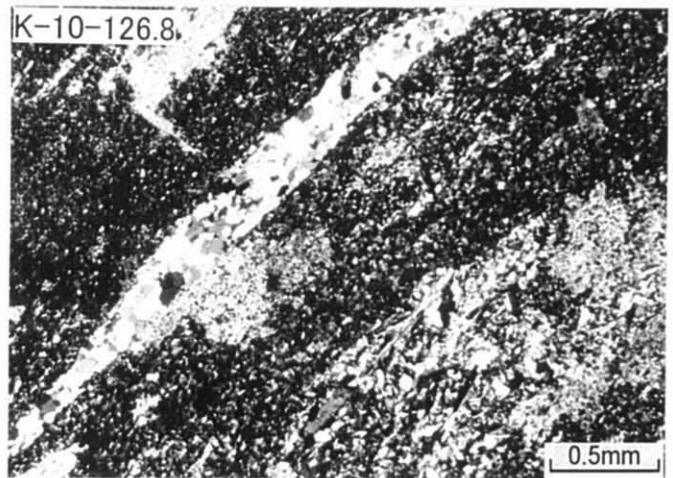
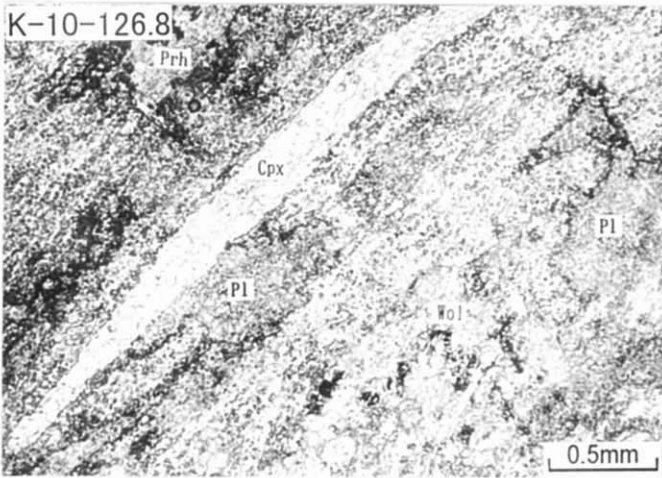
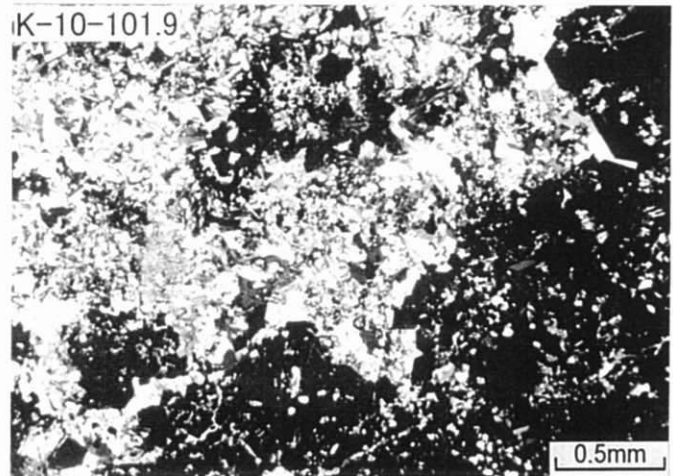
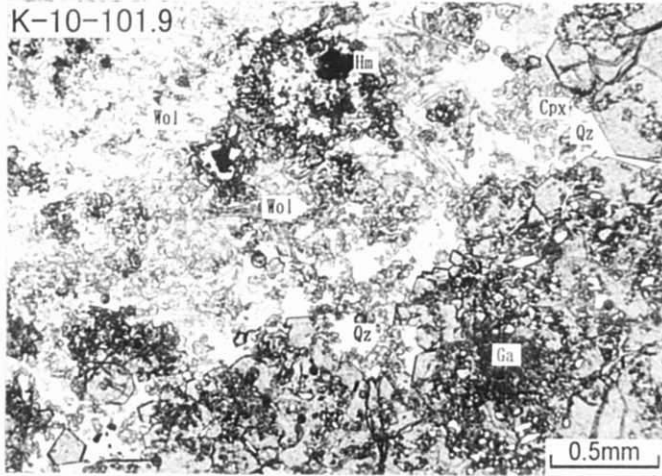




Appendix 2 (3) Photomicrographs of the Thin Sections

Plane polarized light

Crossed polarized light

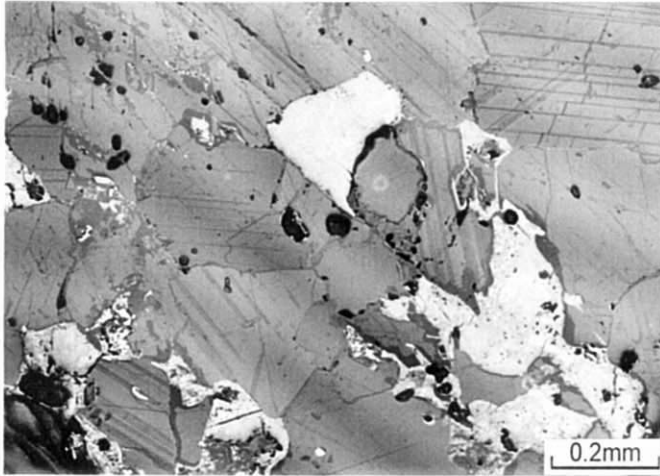




Appendix 4 (1) Photomicrographs of the Polished Thin Sections

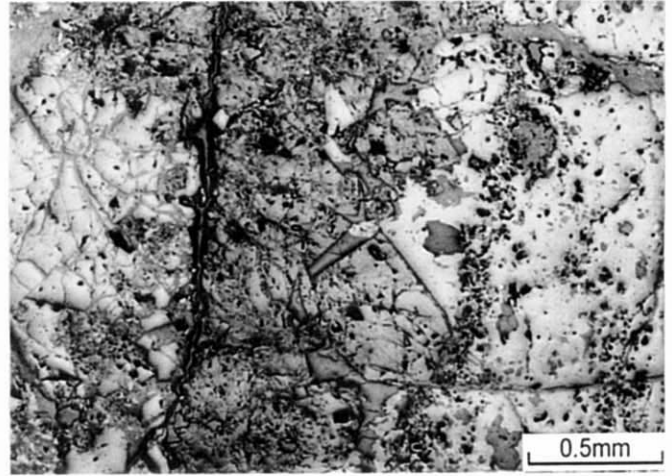
K-8-174.3

reflected light

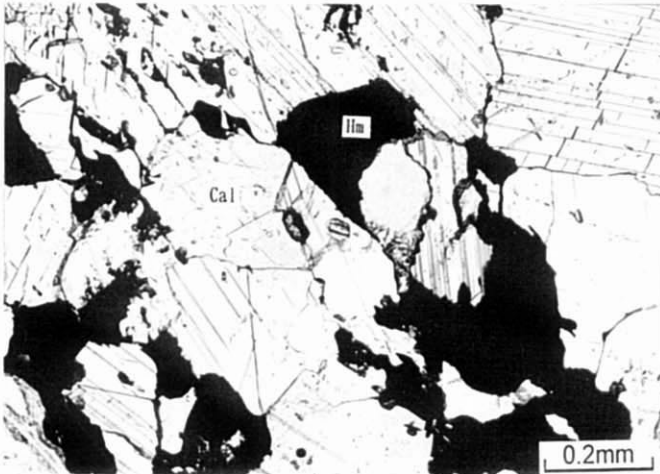


K-9-49.6

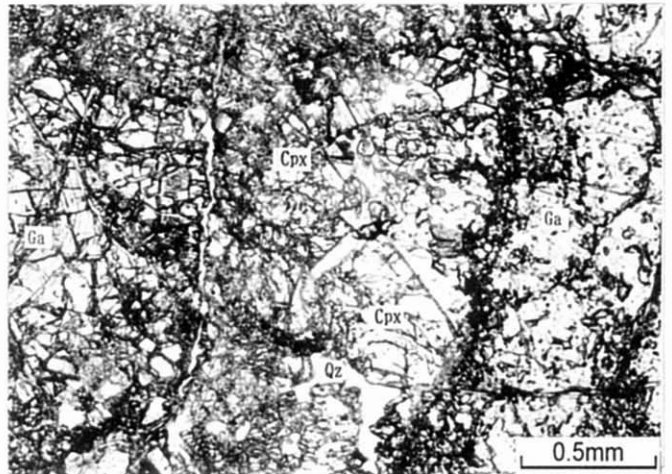
reflected light



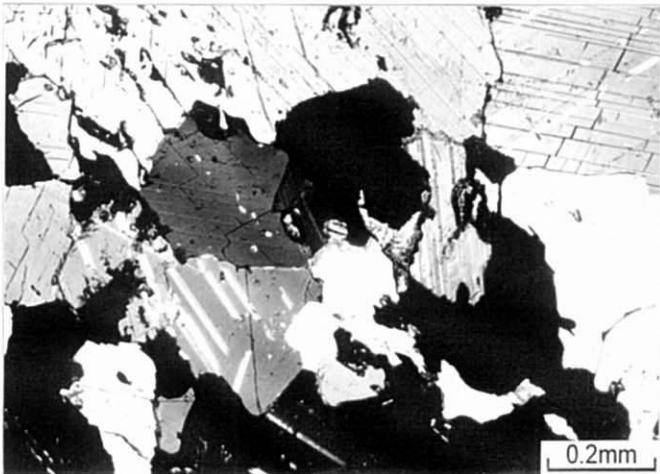
transmitted light(plane)



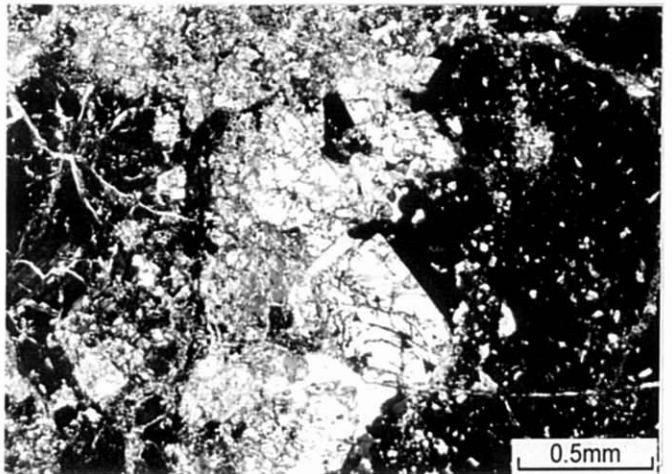
transmitted light(plane)



transmitted light(crossed)



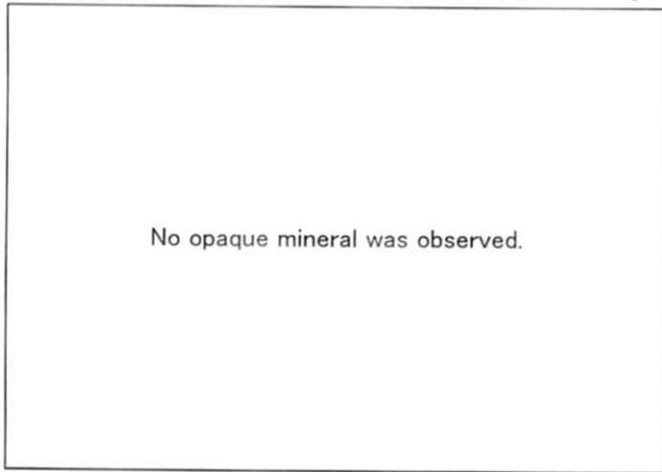
transmitted light(crossed)



Appendix 4 (2) Photomicrographs of the Polished Thin Sections

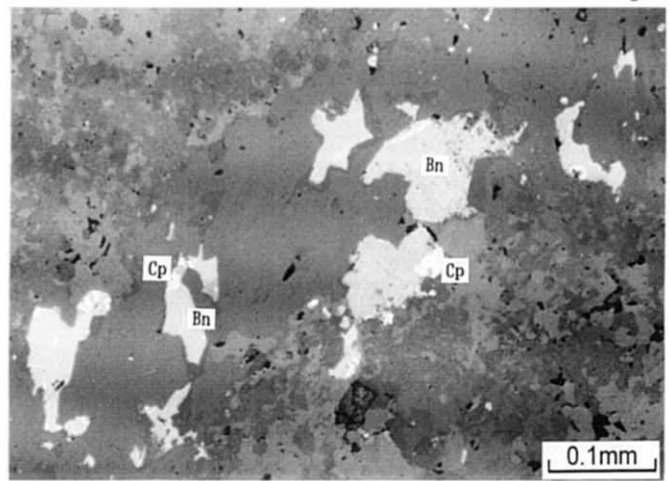
K-10-104.2

reflected light

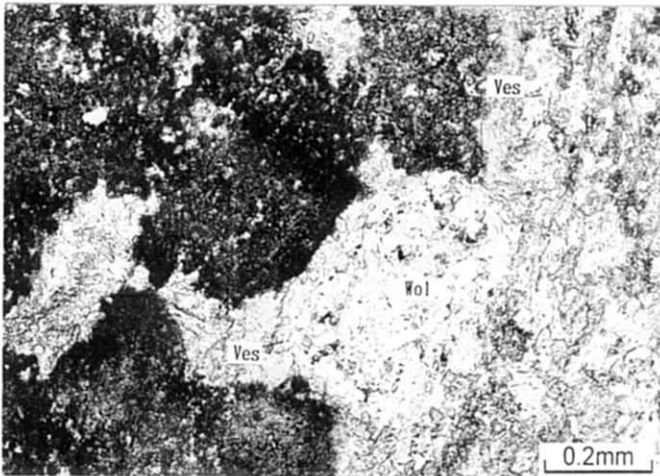


K-10-104.4

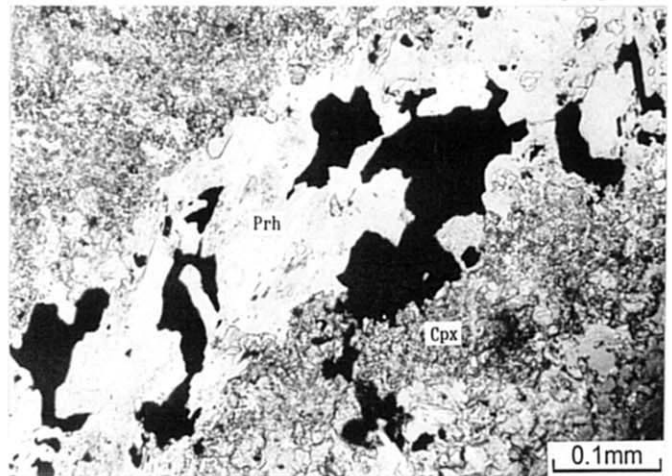
reflected light



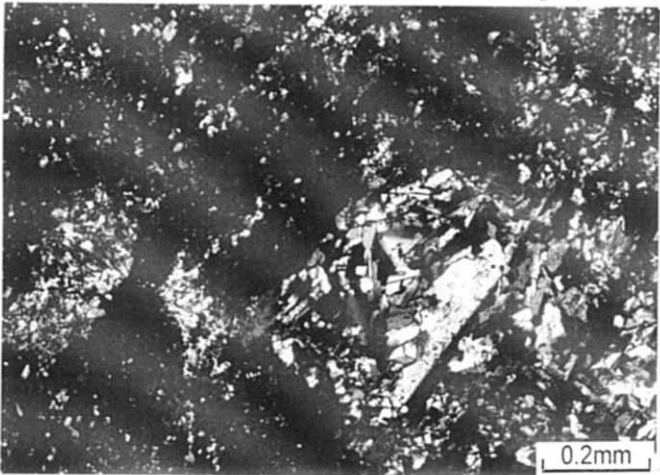
transmitted light(plane)



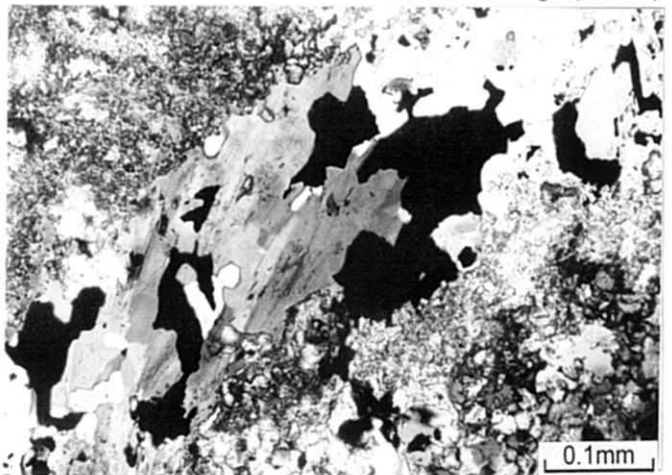
transmitted light(plane)



transmitted light(crossed)



transmitted light(crossed)

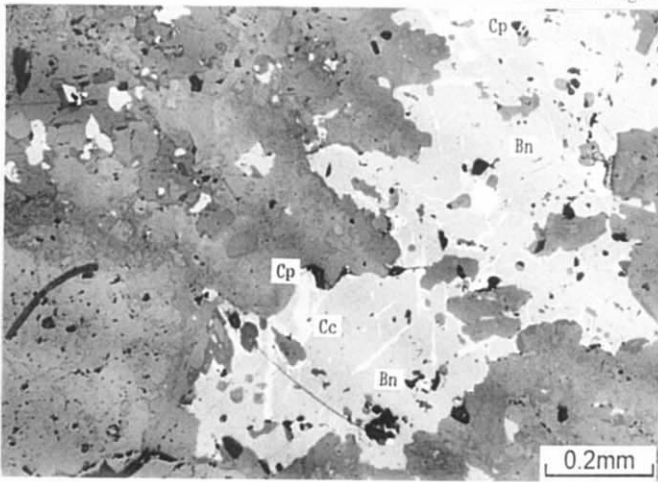




Appendix 4 (3) Photomicrographs of the Polished Thin Sections

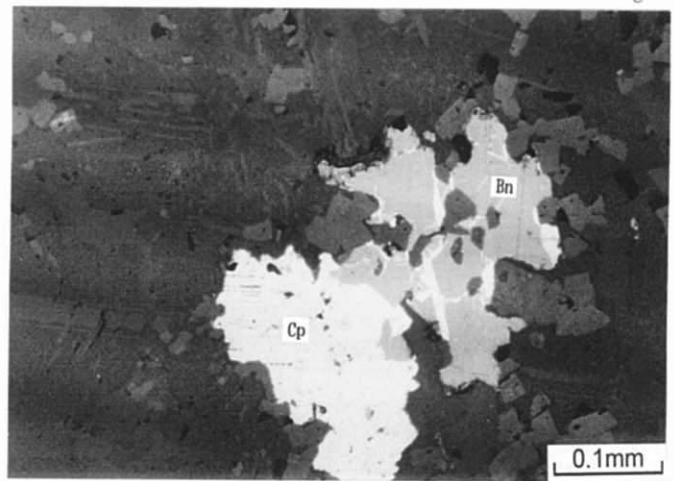
K-10-113.9

reflected light

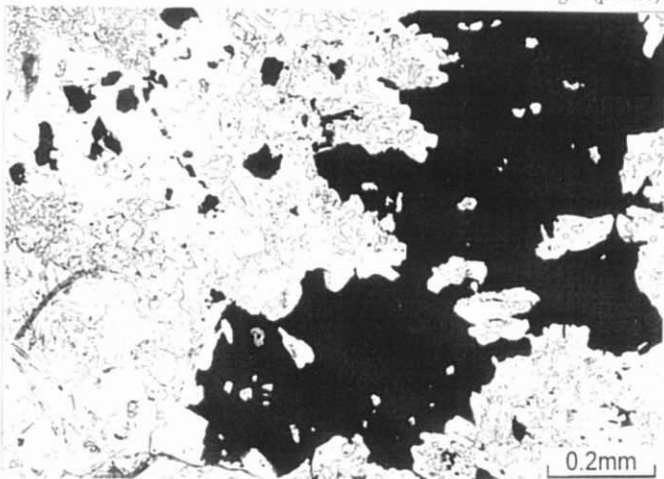


K-10-115.3

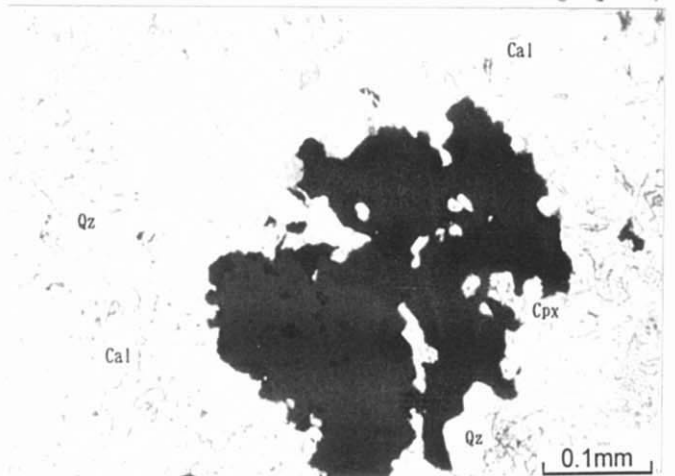
reflected light



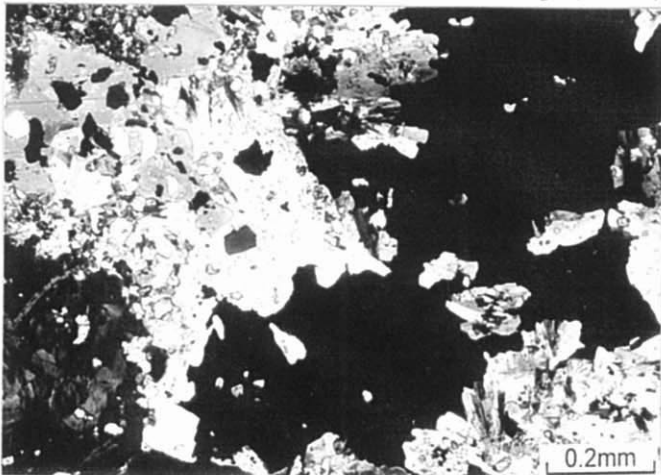
transmitted light(plane)



transmitted light(plane)



transmitted light(crossed)



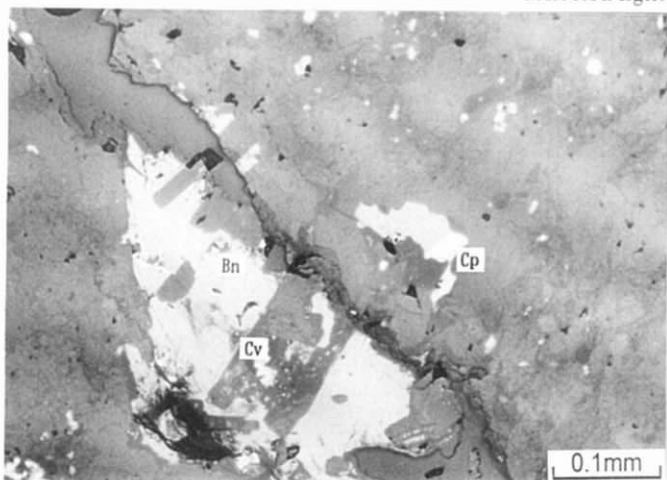
transmitted light(crossed)



Appendix 4 (4) Photomicrographs of the Polished Thin Sections

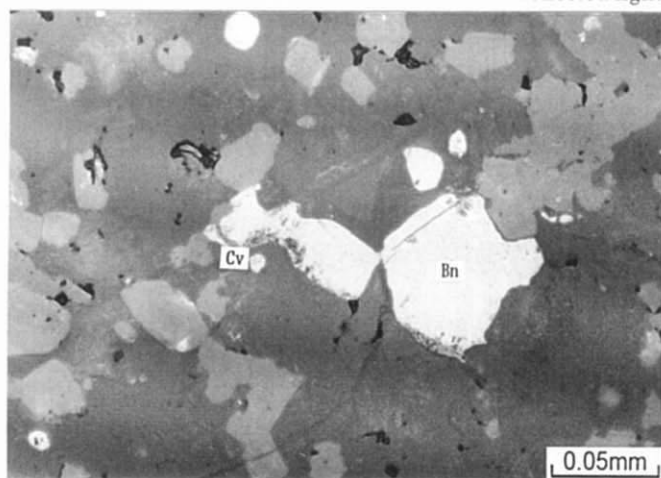
K-10-120.5

reflected light

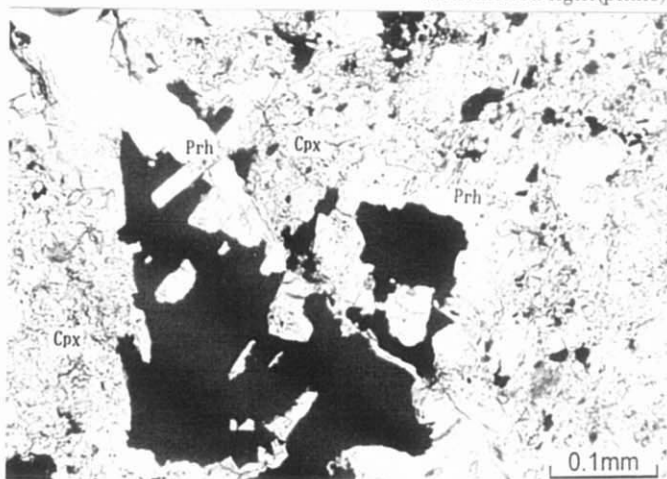


K-10-126.5

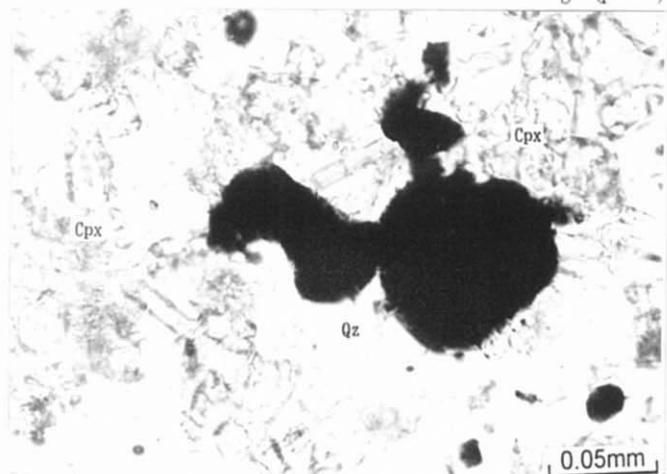
reflected light



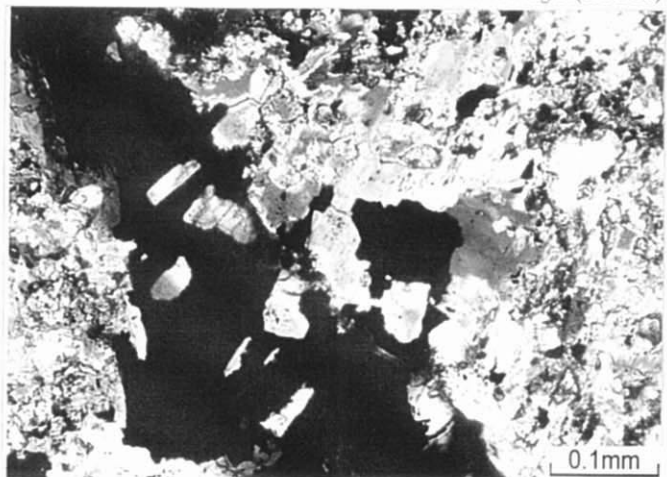
transmitted light(plane)



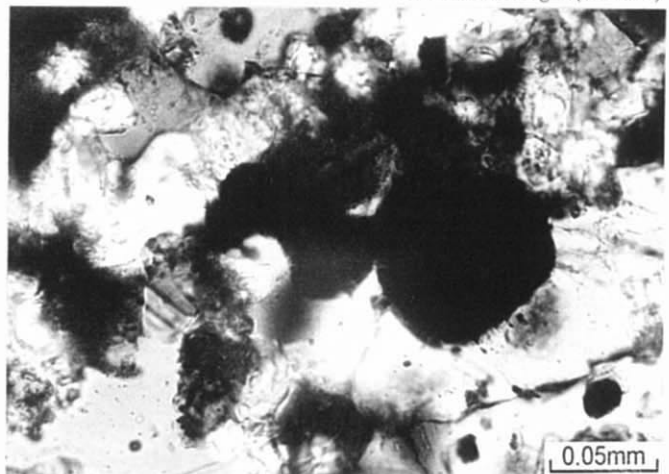
transmitted light(plane)



transmitted light(crossed)



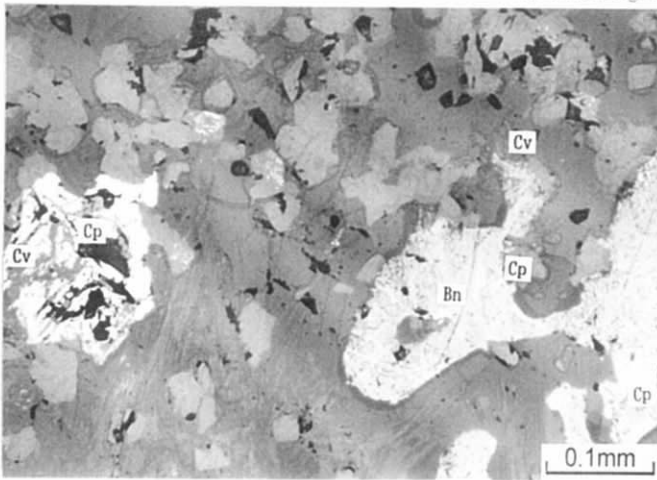
transmitted light(crossed)



Appendix 4 (5) Photomicrographs of the Polished Thin Sections

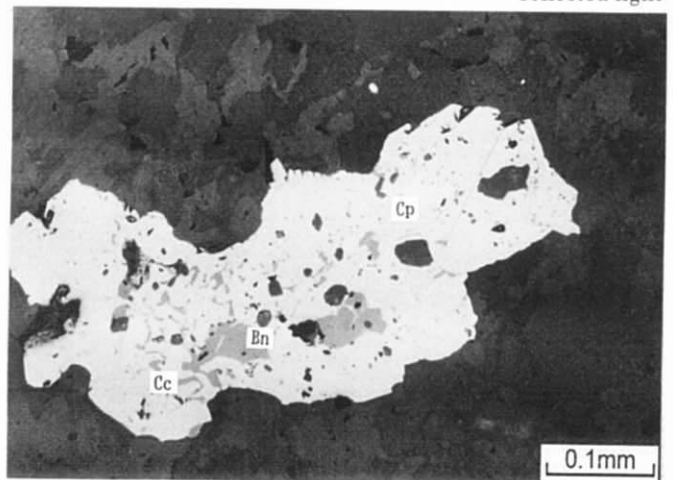
K-10-129.7

reflected light

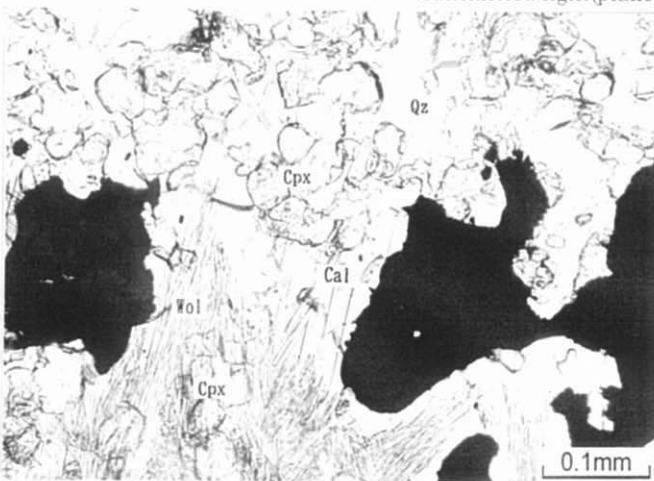


K-10-131.1

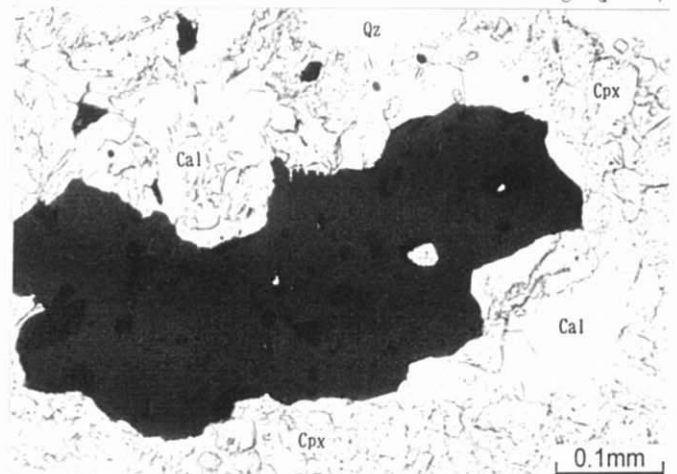
reflected light



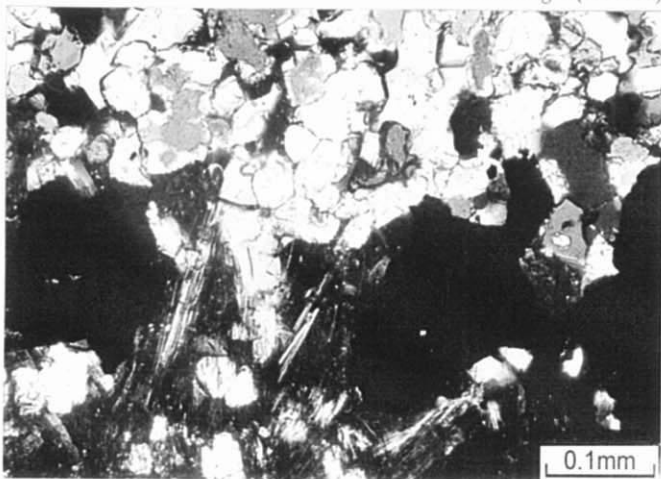
transmitted light(plane)



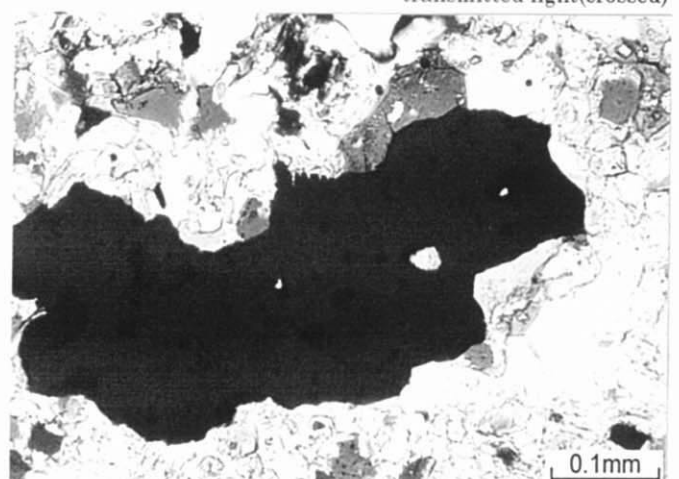
transmitted light(plane)



transmitted light(crossed)



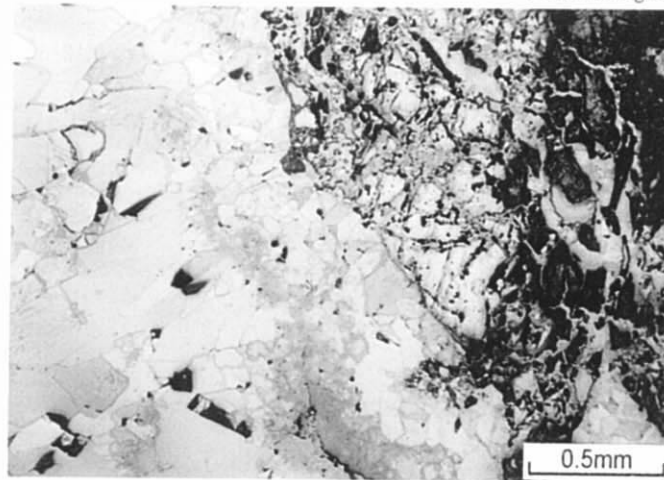
transmitted light(crossed)



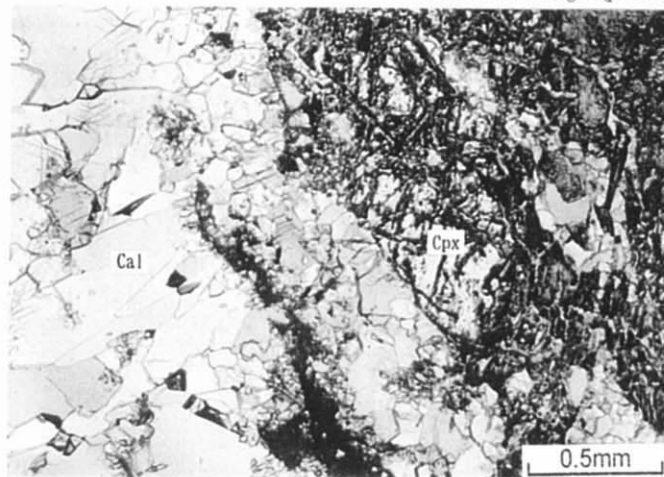
Appendix 4 (6) Photomicrographs of the Polished Thin Sections

K-10-135.8

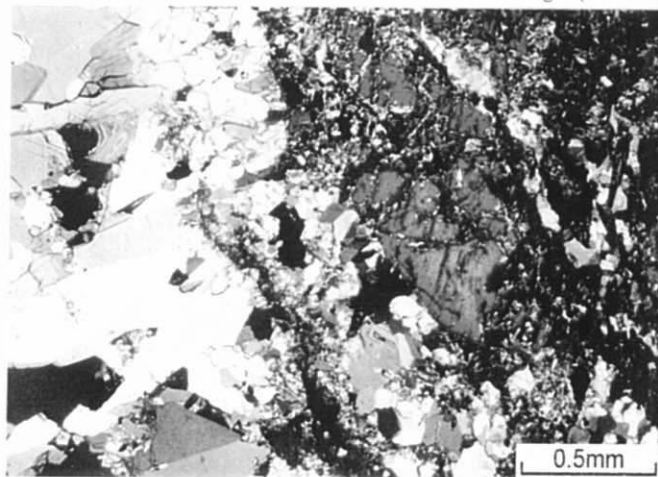
reflected light



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]

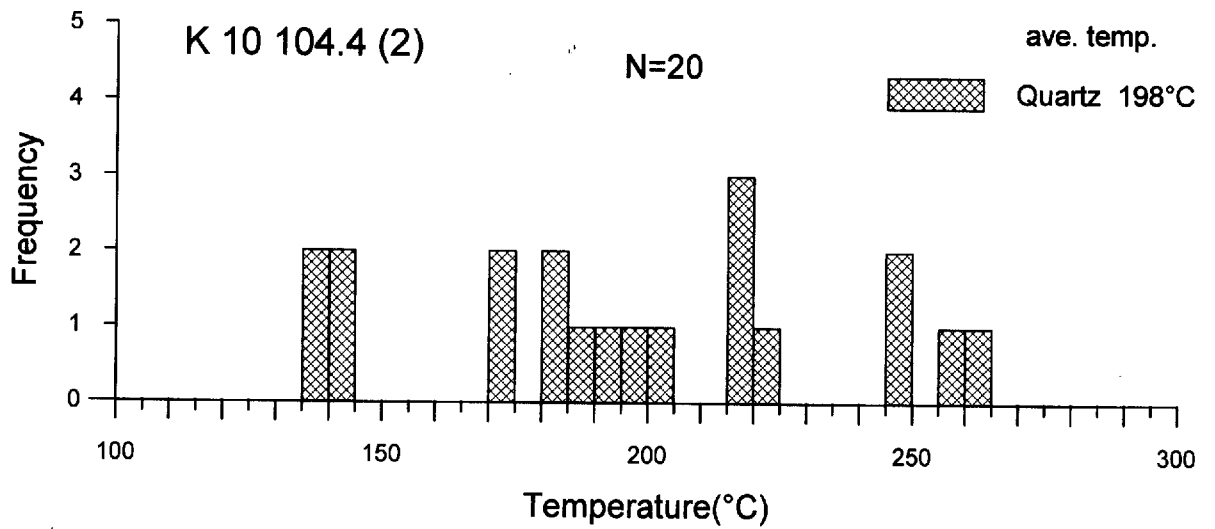
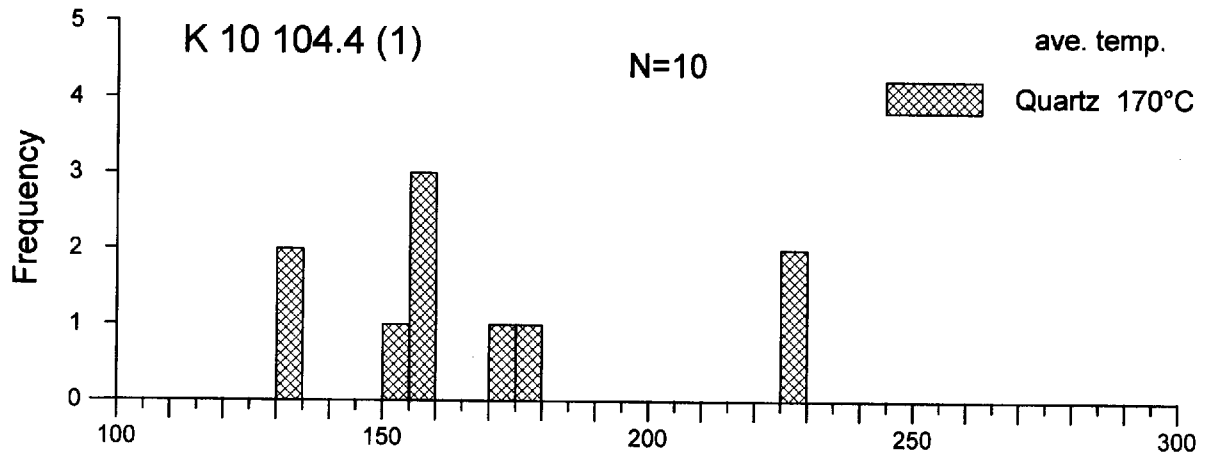
- ◎ : Abundant
- : Common
- △ : Poor
- ☆ : Rare

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, Op=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	42.6	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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<0.5
26	9 K 10 126.6	KS/MJJK-10П	cal v with sk					X		9 K 10 126.6	0.08	<1	114.9	<3.5	6.3	<1.5	<2.5	<0.5	<0.5
21	9 K 10 126.8	KS/MJJK-10П	stg sil ls with gry band		X					9 K 10 126.8	0.08	<1	114.9	<3.5	6.3	<1.5	<2.5	<0.5	<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	<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	<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 analysis(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 X Y	1/200 m Direction m Inclination m Length	ASSAY RESULT										LAB. TEST
LITHO-LOGY	DEPTH (m)	DESCRIPTORS	DEPTH (m)	SAMPLE No.	Au	Ag	Cu	Pb	Zn	As	Sb	Mo	LAB. TEST	
	0	Pebble & gravel of wht ls												
	3.6	ls, p-gry with bk band (20-40%)												
	4.0-5.0	wk sil												
	6.4-6.7	wk sil												
	9.3	↖ 30° 20° alt zone with brn band												
	9.4													
	10.0	9.3-10.0 wk sil												
		ls, p-gry with bk band (20-40%)												
	14.5	14.5-15.8, wk sil ls												
	15.8													
	16.5	↖ 60° 40° bre with clay, p-brn												
	20.8	↖ 50° 0.5° cal v												
	22.8	20° crushed zone												
		ls, p-gry with bk band (20-40%)												
	26.7	26.7-31.6 brec q 1-2°, porous												
	31.6													
	32.9	↖ 45° crushed with wht clay												
	33.7													
	34.9	34.9-35.3 wk sil												
	35.3	34.8-38.1 cal patch												
	38.1	ls, p-gry with bk band (20-40%)												
	39.4	39.4-40.8 wk sil												
	40.8													
	42.5	42.5-44.1 wk sil												
	44.1	↖ 40° 10° crushed												
	44.4													
	45.8	45.8-48.0 drusy												
	48.0	ls, p-gry with bk band (20-40%)												
	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 (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 $\phi$ 1-5°, ang-sub-ang, p-gry													
	207.2	wht clay with bre ls													
	210.0	ls, p-gry, bre $\phi$ 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 $\phi$ 1-5°, ang.matrix wht cal													
		The End													





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 (2/3)

1/200

MJJK - 10 50.0 m - 100 m

Level  
X  
Y

m Direction  
m Inclination  
m Length

LITHO-LOGY	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										
Is	57.9	sil ls	56.4	K003	<0.03	<1	227.0	7	67.1	4	<2.5	1.0	
Is	59.0	57.9-59.0 drusy											
Is	61.1	Is, cri, wht with p-gry band 1° qz-cal v, druse											
Is	62.5												
Is	66.0	Is, wk sil											
Is	68.5	Is, sil, wht with p-gry band	66.0										
Is	68.5		67.5	K004	<0.03	<1	28.5	4	21.4	<1.5	<2.5	<0.5	
Is	70.8	Is, stg sil, gry wht with p-gry band	68.5	K005	<0.03	<1	30.9	<3.5	24.2	<1.5	<2.5	<0.5	
Is	72.0	hb andesite, brn gry	69.8	K006	<0.03	<1	78.2	10	60.5	<1.5	<2.5	<0.5	
Is	72.3	ga sk, p-grn	70.8	K007	<0.03	<1	32.8	8	57.8	<1.5	<2.5	0.7	X
Is	75.7	Is, wht with p-gry band, part wk sil	70.8	K008	<0.03	<1	157.6	24	79.1	<1.5	<2.5	2.1	71.6
Is	77.7		71.6	K009	<0.03	<1	162.1	12	54.2	4	<2.5	1.7	71.7
Is	78.9	Is, stg sil, wht with sk p-gry grn band(5-10%)	72.3										
Is	80.7	Is, crushed with wht -pk clay	73.3	K010	<0.03	<1	102.6	10	163.3	<1.5	<2.5	0.5	
Is	81.5	Is, sil with sk	74.3	K011	<0.03	<1	37.2	<3.5	16.8	<1.5	<2.5	<0.5	
Is	82.5	Is, with wht clay	75.7	K012	<0.03	<1	14.2	<3.5	14.8	<1.5	<2.5	<0.5	
Is	83.5		76.7	K013	<0.03	<1	10.7	15	9.6	2	<2.5	<0.5	
Is	84.5		77.7	K014	<0.03	<1	26.7	<3.5	16.5	<1.5	<2.5	<0.5	
Is	85.5		78.9	K015	<0.03	<1	9.8	<3.5	9.4	<1.5	<2.5	<0.5	
Is	86.5	Is, stg sil wht with p-gry-grn sk band (bedding 0°-20°)	80.7	K016	<0.03	<1	19.9	<3.5	8.8	<1.5	<2.5	<0.5	
Is	88.5		81.5	K017	<0.03	<1	7.3	<3.5	9.2	<1.5	<2.5	<0.5	
Is	90.5	90.9m ccp, bo imp	82.5	K018	<0.03	<1	9.3	<3.5	9.0	<1.5	<2.5	<0.5	
Is	91.4		83.5	K019	<0.03	<1	8.8	<3.5	8.2	2	<2.5	<0.5	
Is	91.8	40° qz-cal-ep v, druse, grn sk (-91.4 ls, wht 91.4-Is, p-grn-wht)	84.5	K020	<0.03	<1	13.0	<3.5	4.8	<1.5	<2.5	<0.5	
Is	92.9	Is, crushed, with wht clay	85.5	K021	<0.03	<1	11.4	<3.5	5.0	<1.5	<2.5	<0.5	
Is	93.4	clay, p-grn-pk, with wk sk, cal	86.5	K022	<0.03	<1	10.4	4	5.4	<1.5	<2.5	<0.5	
Is	95.0	Is, sil, p-grn-wht	87.5	K023	<0.03	<1	18.3	<3.5	5.7	<1.5	<2.5	<0.5	
Is	95.3	95.0-10° sk with sil ls, grn-Cu a little	88.5	K024	<0.03	<1	13.6	<3.5	5.6	<1.5	<2.5	5.2	
Is	95.6	95.3-10° ls sil with sk, grn-Cu, bo	89.5	K025	<0.03	<1	10.0	<3.5	5.2	<1.5	<2.5	0.6	
Is	96.9	95.4-95.6 ls, stg sil	90.5	K026	<0.03	<1	27.3	<3.5	8.7	<1.5	<2.5	<0.5	
Is	98.0	95.6-20° sil ls	91.4	K027	<0.03	<1	124.3	<3.5	10.3	4	<2.5	<0.5	F
Is	98.0	95.8-96.9 wk sil ls	91.8	K028	<0.03	<1	26.0	<3.5	15.6	<1.5	<2.5	<0.5	
Is	98.0	Is, sil, with wk ga sk, grn-Cu a little	92.9	K029	<0.03	<1	44.8	<3.5	13.6	<1.5	<2.5	<0.5	X
Is	98.0	93.5<5° 2° cal v, bo imp	93.4	K030	0.07	<1	344.3	<3.5	15.3	2	<2.5	<0.5	92.9
Is	98.0	94.8<5° 2° cal v, bo imp	95.0										
Is	98.0	95.6<5° 0.1° cal v, let, p-gry bo	95.0	K031	<0.03	<1	342.3	<3.5	13.1	2	3	<0.5	
Is	98.0	96.2<10° 10° p-gry sk, bo imp	95.8	K032	<0.03	4	3418	7	160.5	2	<2.5	0.5	
Is	98.0	97.1 10° bo imp	96.9	K033	<0.03	<1	109.7	<3.5	8.6	<1.5	<2.5	<0.5	
Is	98.0	98.0-Is, p-grn-wht stg sil with wk sk	98.0	K034	<0.03	1	1293	<3.5	36.1	<1.5	<2.5	<0.5	X
Is	98.0	band (5-10%) p-grn	99.0	K035	<0.03	1	1707	6	32.1	<1.5	<2.5	<0.5	98.0
Is	98.0	98.5<10° 2° sk, bo>> ccp imp	100.0	K036	<0.03	<1	1025	4	30.7	<1.5	<2.5	<0.5	









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
<b>Total</b>	<b>18 July. '99</b>	<b>08 Aug. '99</b>	<b>22.0</b>	<b>22.0</b>	<b>0.0</b>	<b>349</b>
<b>Drilling length</b>						
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%
<b>Working hours</b>				<b>Core recovery by each 50 meters</b>		
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	
			<b>Efficiency</b>			
			Effective length ③ / Working drilling days②			
			11.2 m/d			
			Effective length ③ / Total drilling days ①			
<b>Total</b>	<b>528 h</b>	<b>100%</b>	<b>11.2 m/d</b>			
<b>Drilling length by diameter</b>						
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
<b>Inserted casing pipes</b>						
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
<b>Drilling length</b>						
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%
<b>Working hours</b>			<b>Core recovery by each 50 meters</b>			
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%				
			<b>Efficiency</b>			
			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%				
<b>Drilling length by diameter</b>						
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
<b>Inserted casing pipes</b>						
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)

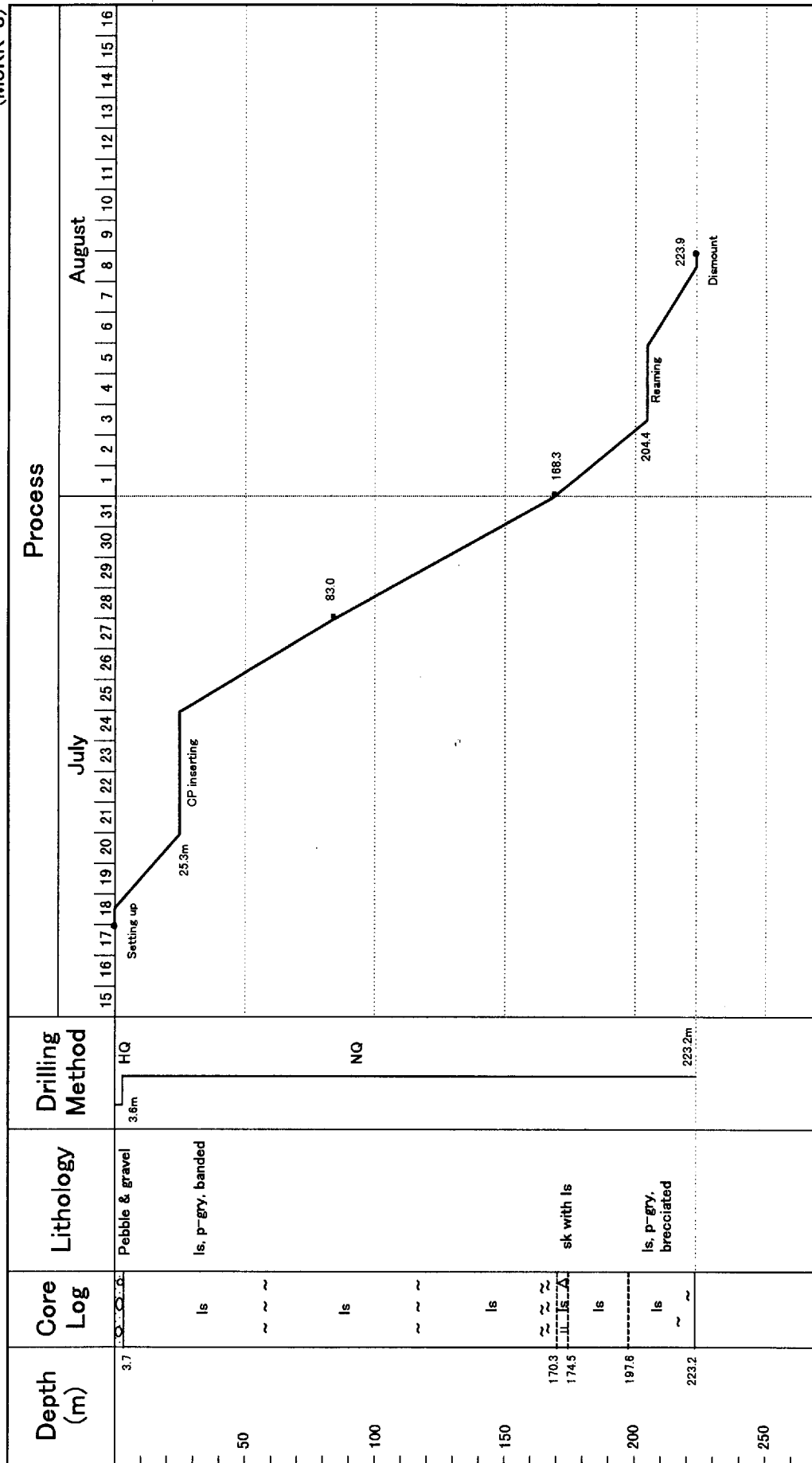
	Period			Breakdown of period		Total persons
	from	to	Total days	Working days	Out of working days	
Preparation	29 July. '99	29 July. '99	0.5	0.5	0.0	4
Drilling	29 July. '99	09 Aug. '99	11.0 ①	11.0②	0.0	176
Dismount	09 Aug. '99	10 Aug. '99	1.5	1.5	0.0	24
<b>Total</b>	<b>29 July. '99</b>	<b>10 Aug. '99</b>	<b>13.0</b>	<b>13.0</b>	<b>0.0</b>	<b>204</b>
<b>Drilling length</b>						
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%
<b>Working hours</b>			<b>Core recovery by each 50 meters</b>			
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%				
			<b>Efficiency</b>			
			Effective length ③ / Working drilling days②			
			13.0 m/d			
			Effective length ③ / Total drilling days ①			
			13.0 m/d			
<b>Total</b>	<b>312 h</b>	<b>100%</b>				
<b>Drilling length by diameter</b>						
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
<b>Inserted casing pipes</b>						
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			
			MJJK-8	MJJK-9	MJJK-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 <sup>3</sup>				
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
<b>Sub total</b>	<b>20</b>	<b>1.0</b>	<b>6.2</b>	<b>4.1</b>	<b>11.3</b>	<b>0.6</b>
φ 93mm	4	2.6			2.6	0.7
	5		5.6		5.6	1.1
	3			3.7	3.7	1.2
<b>Sub total</b>	<b>12</b>	<b>2.6</b>	<b>5.6</b>	<b>3.7</b>	<b>11.9</b>	<b>1.0</b>
HQ	1	3.6			3.6	3.6
	2		27.7		27.7	13.9
	2			31.9	31.9	16.0
<b>Sub total</b>	<b>5</b>	<b>3.6</b>	<b>27.7</b>	<b>31.9</b>	<b>63.2</b>	<b>12.6</b>
NQ	8	216.0			216.0	27.0
	4		47.8		47.8	12.0
	5			103.3	103.3	20.7
<b>Sub total</b>	<b>17</b>	<b>216.0</b>	<b>47.8</b>	<b>103.3</b>	<b>367.1</b>	<b>21.6</b>
<b>Grand total</b>	<b>54</b>	<b>223.2</b>	<b>87.3</b>	<b>143.0</b>	<b>453.5</b>	<b>8.4</b>



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





