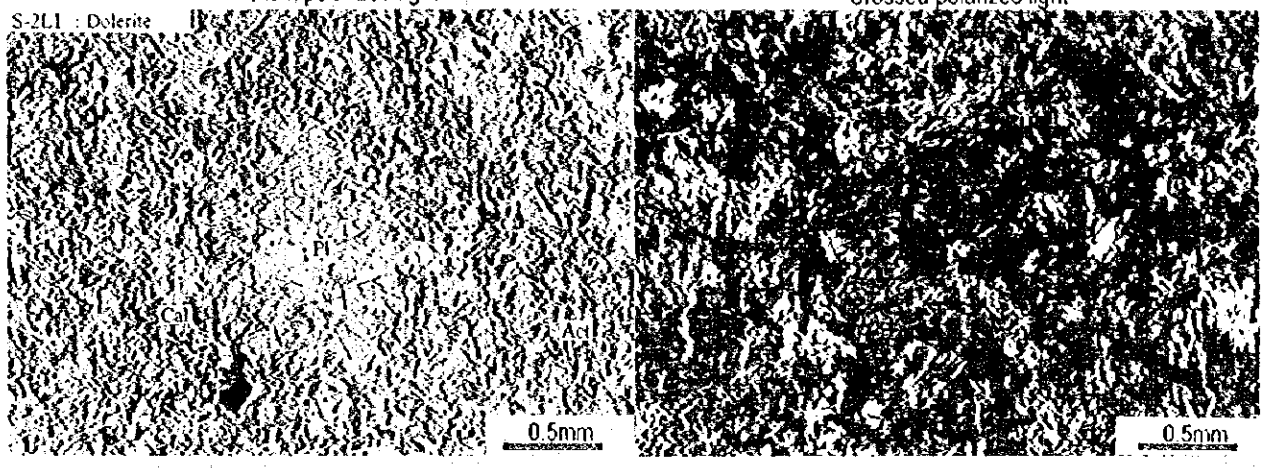
Appendix 2-3 Photomicrographs of the Thin Sections (4/17)

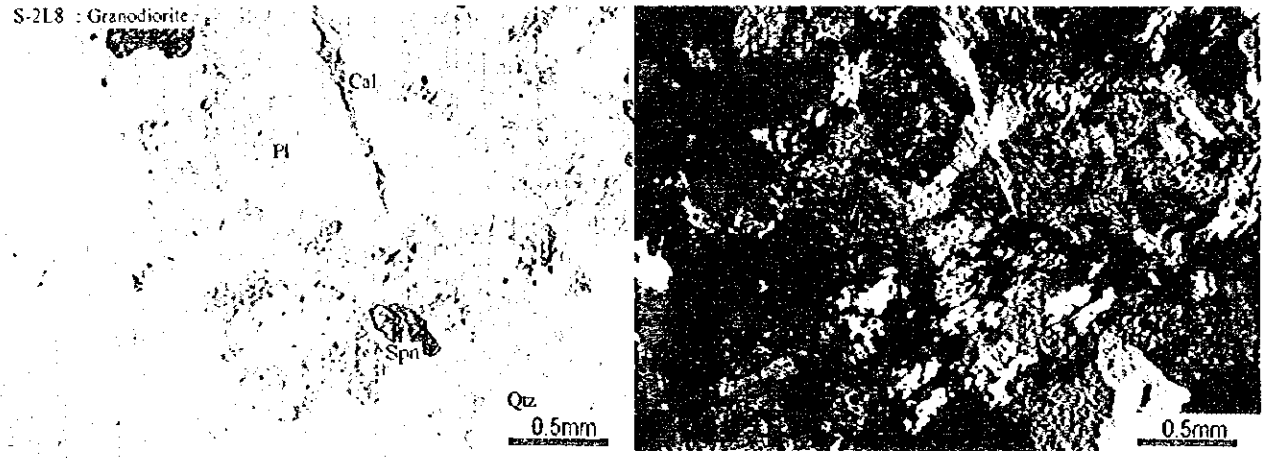
Plain polarized light

Crossed polarized light

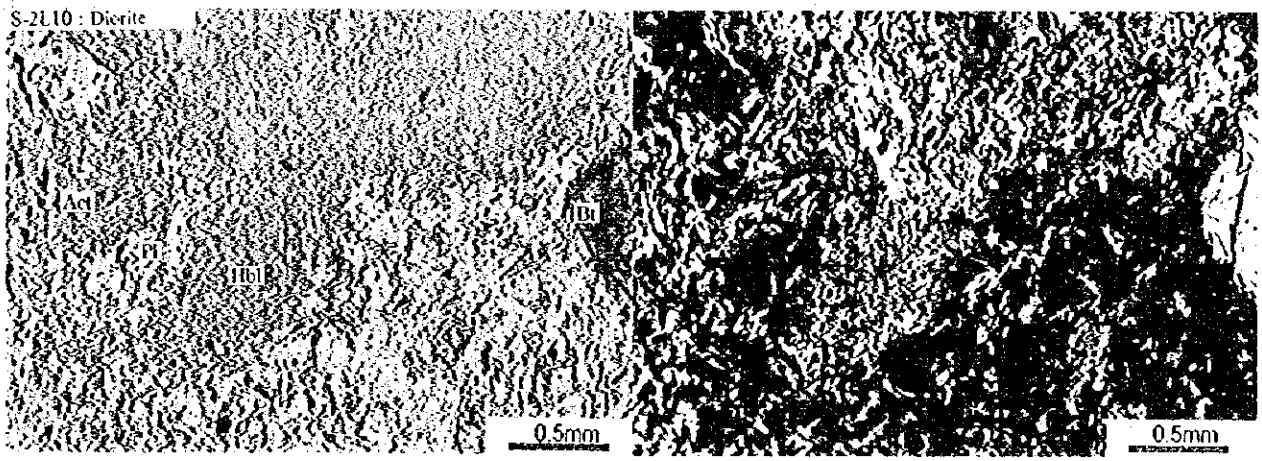
S-2L1 : Dolerite



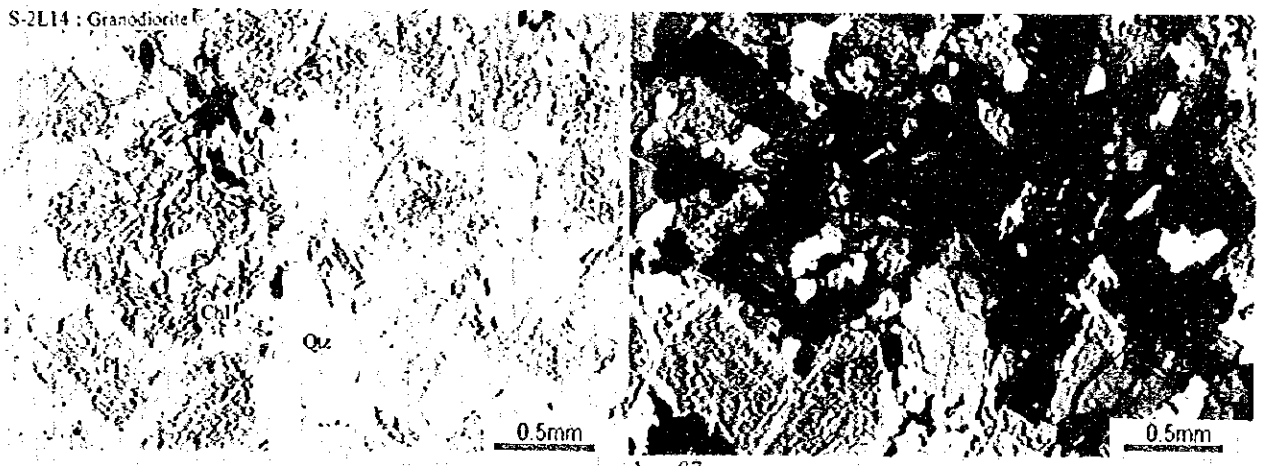
S-2L8 : Granodiorite



S-2L10 : Diorite



S-2L14 : Granodiorite

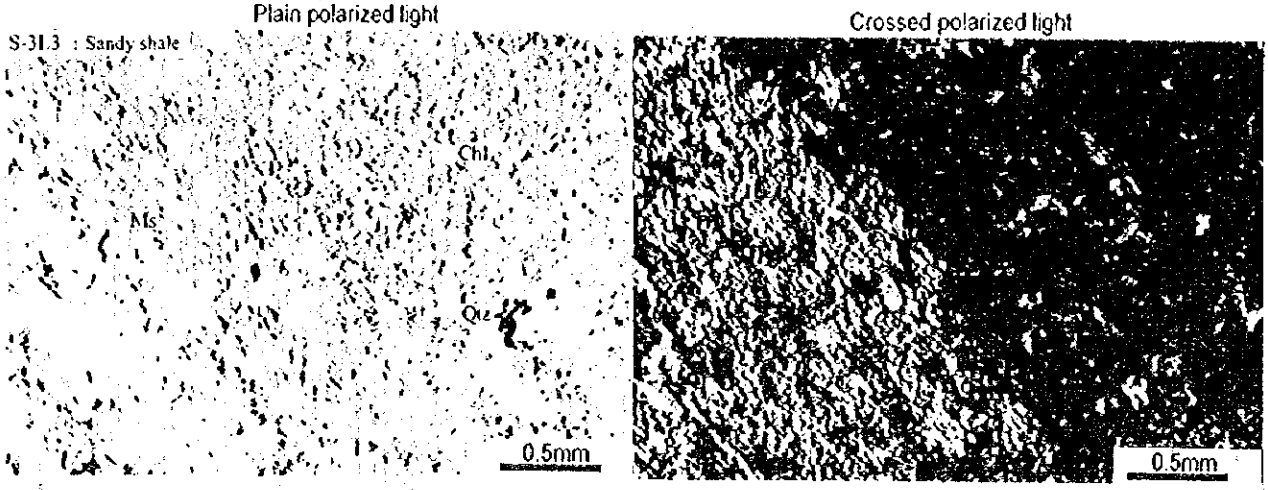


Appendix 2-3 Photomicrographs of the Thin Sections (5/17)

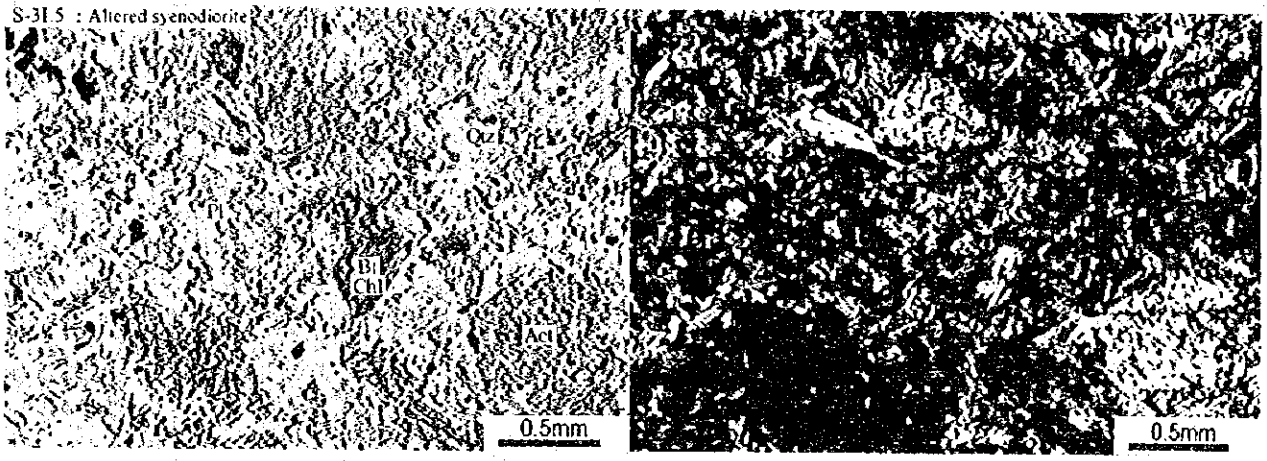
Plain polarized light

Crossed polarized light

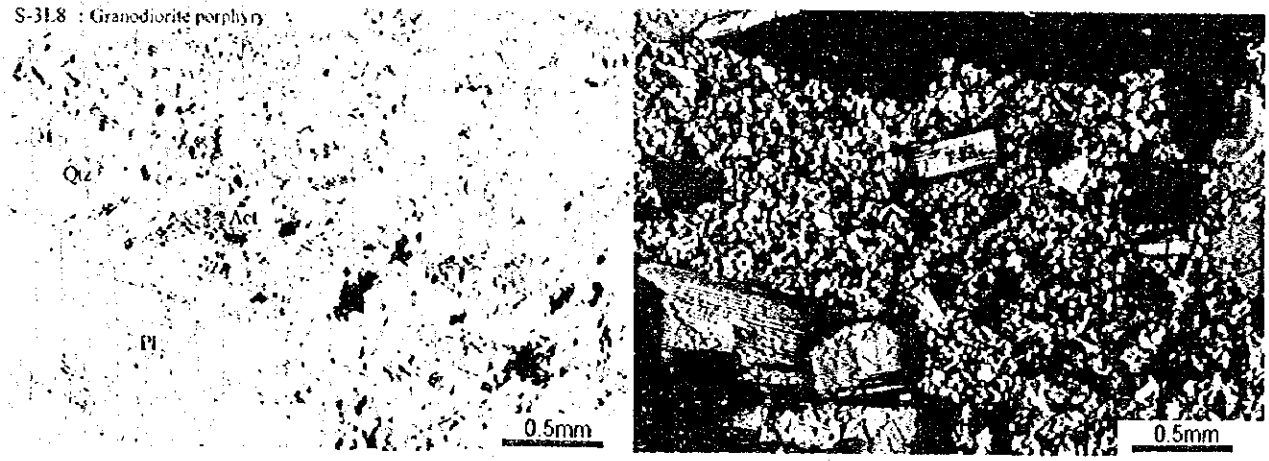
S-3L3 : Sandy shale



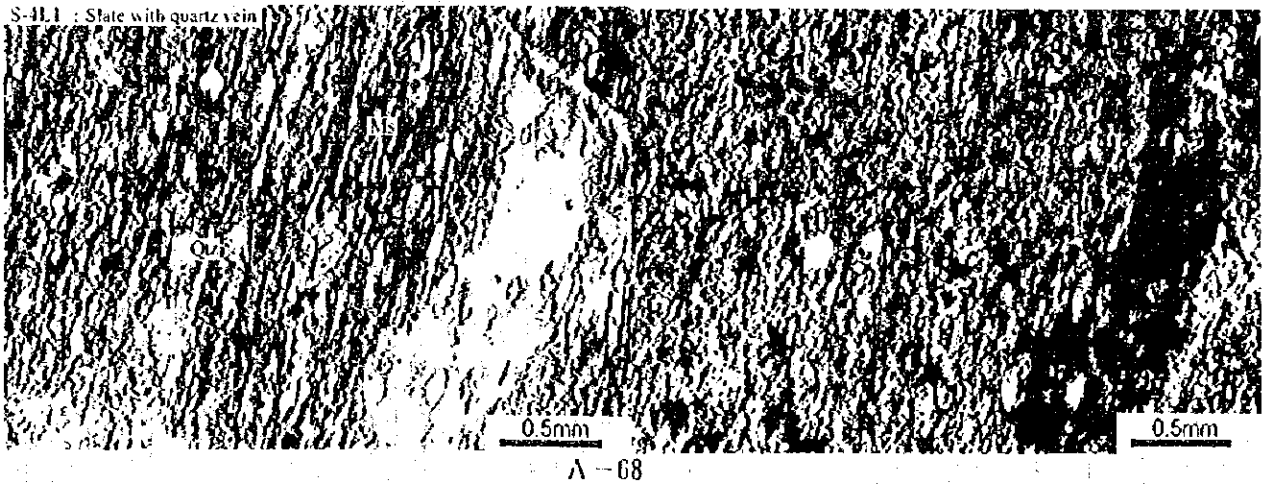
S-3L5 : Altered syenodiorite



S-3L8 : Granodiorite porphyry



S-4L1 : Slate with quartz vein

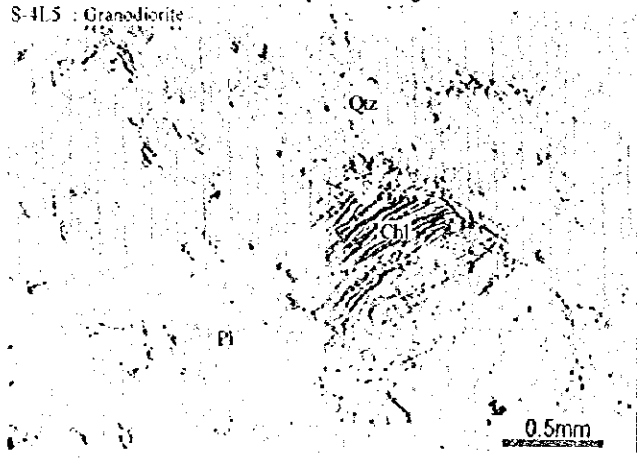


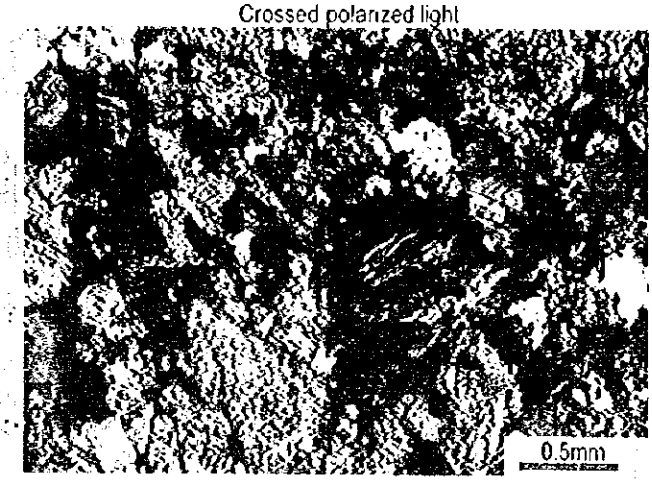
Appendix 2-3 Photomicrographs of the Thin Sections (6/17)

Plain polarized light

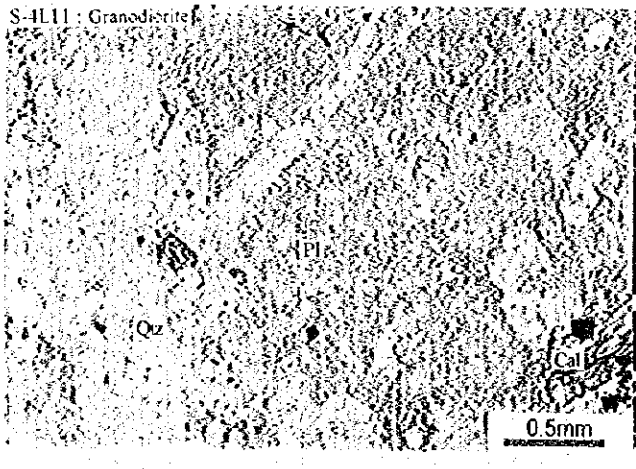
Crossed polarized light

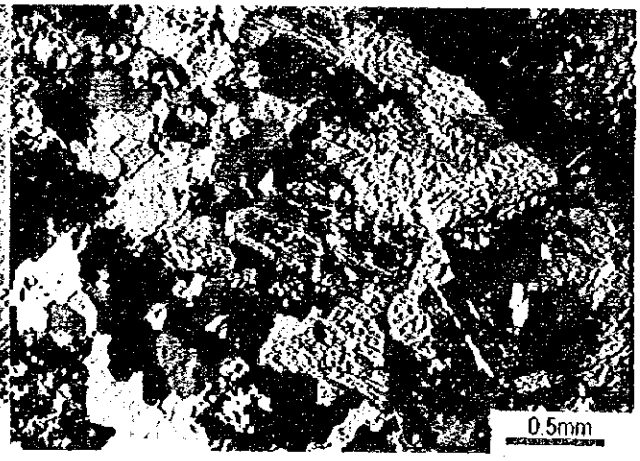
S-4L5 : Granodiorite



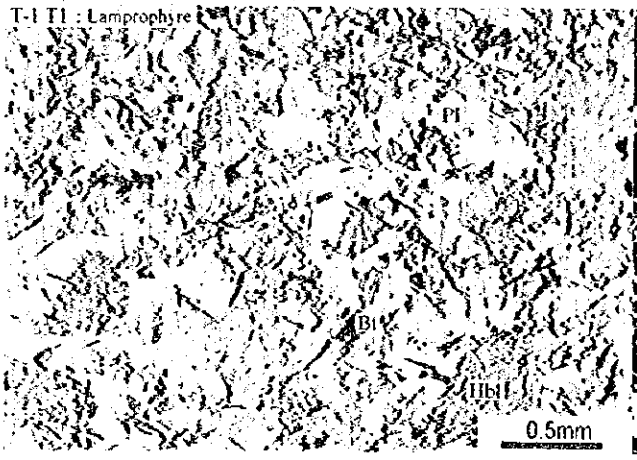


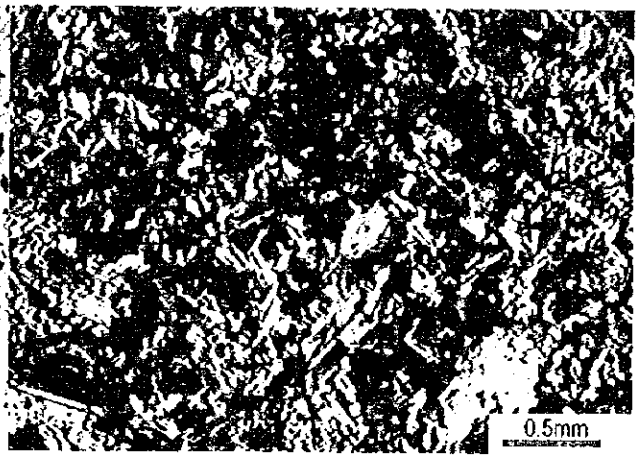
S-4L11 : Granodiorite



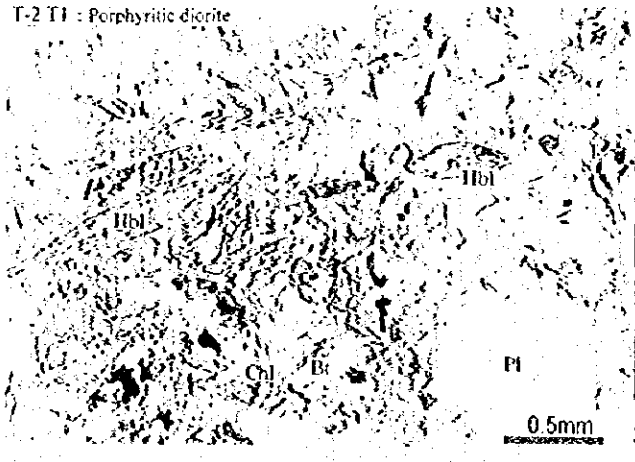


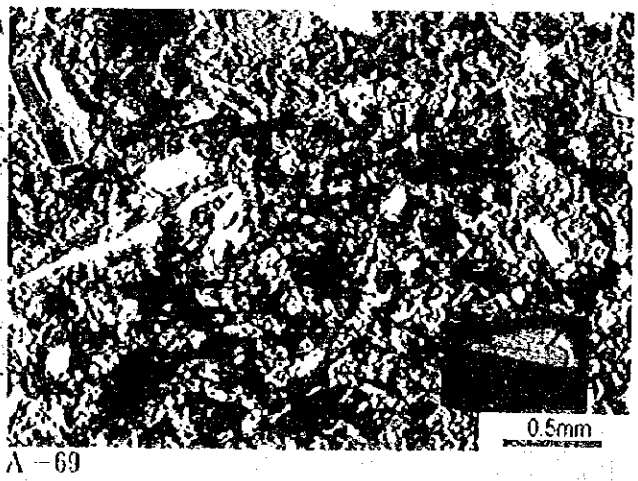
T-1 T1 : Lamprophyre





T-2 T1 : Porphyritic diorite



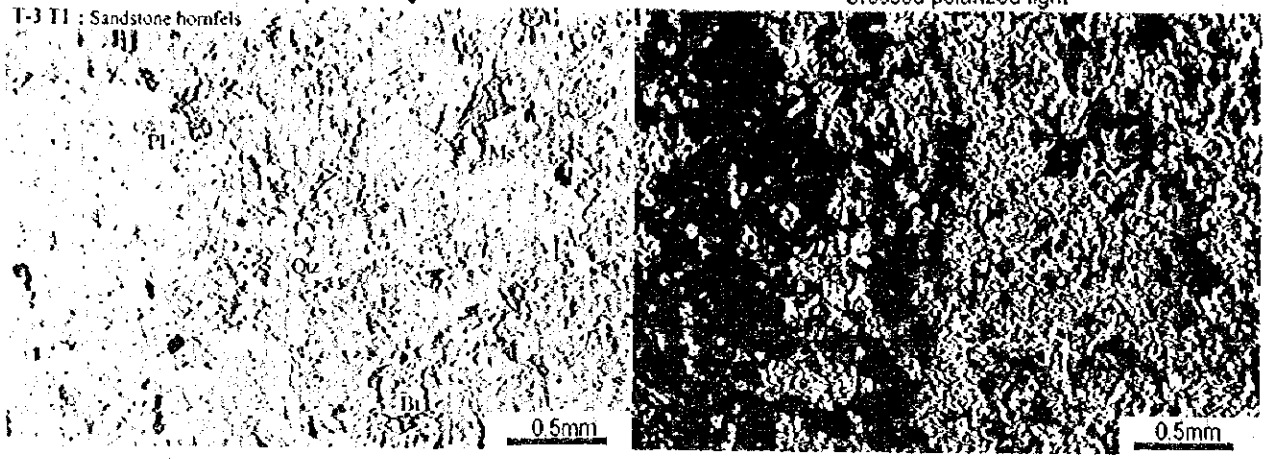


Appendix 2-3 Photomicrographs of the Thin Sections (7/17)

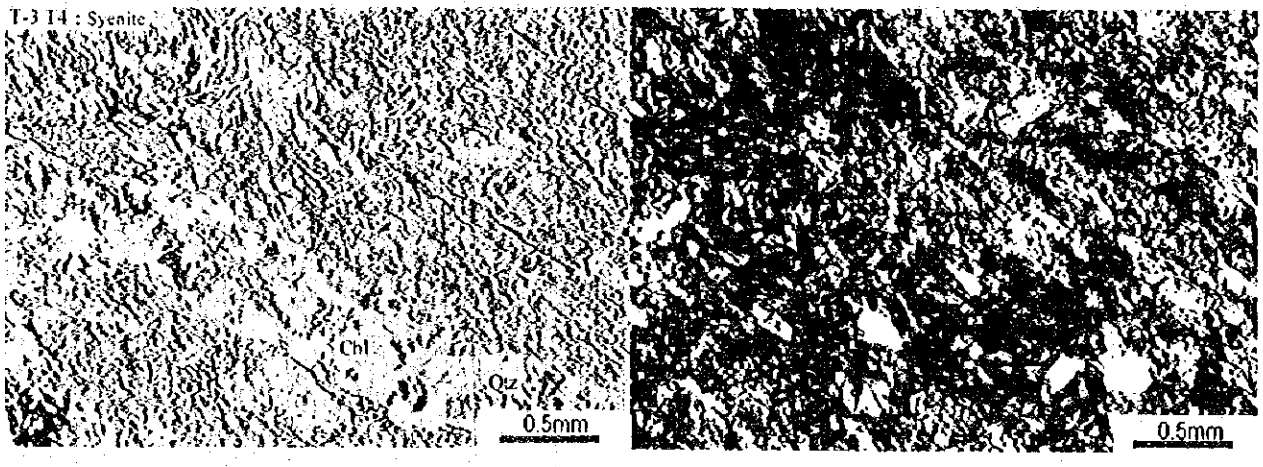
Plain polarized light

Crossed polarized light

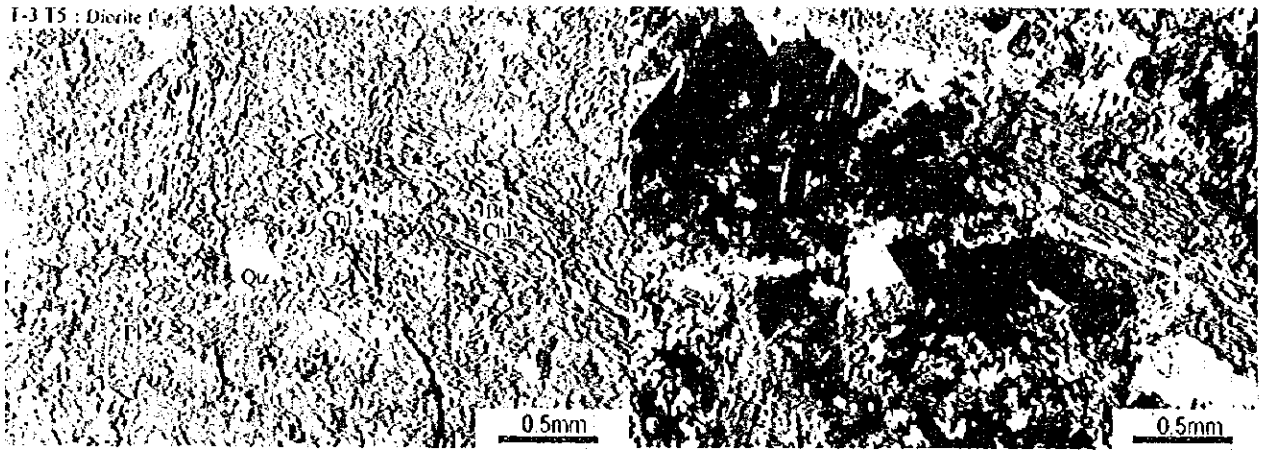
T-3 T1 : Sandstone hornfels



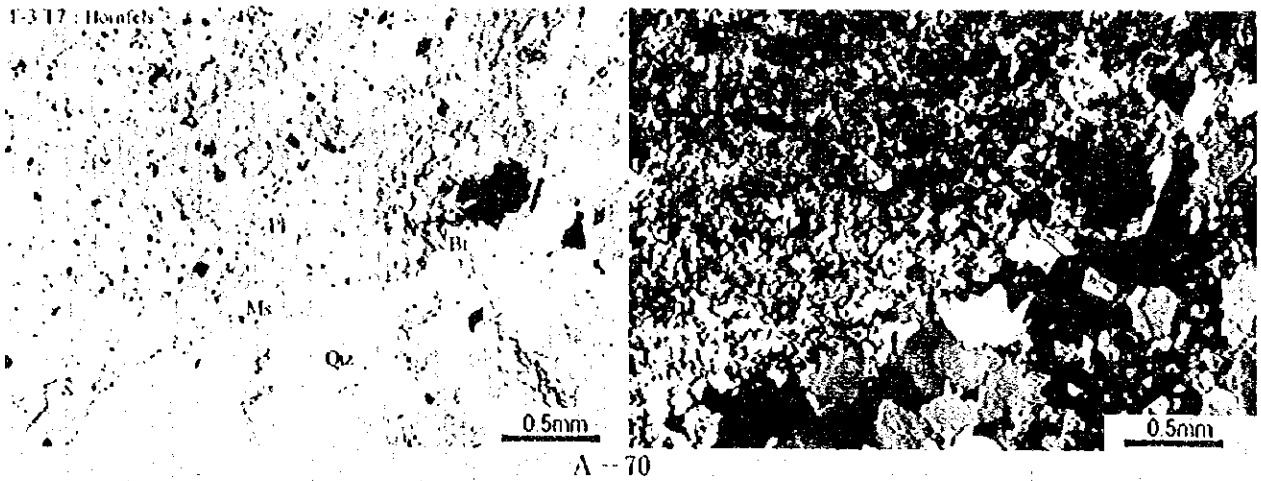
T-3 T4 : Syenite



T-3 T5 : Diorite



T-3 T7 : Hornfels

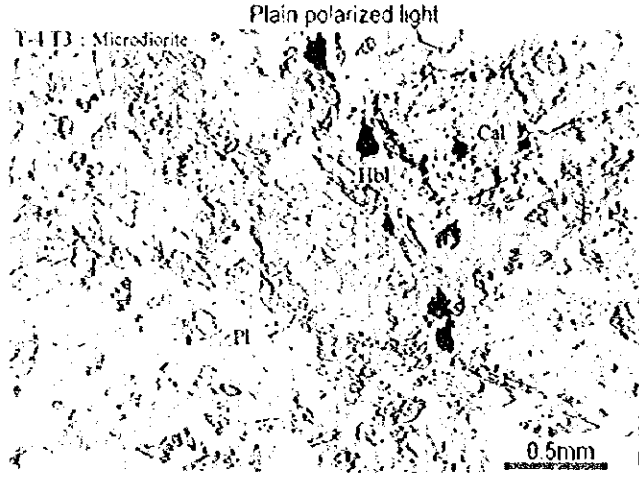


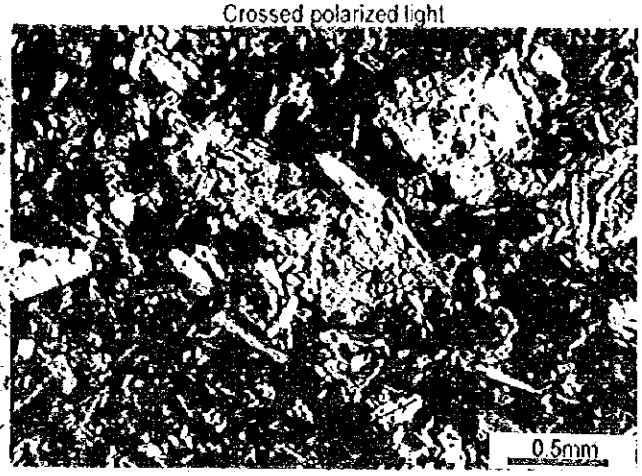
Appendix 2-3 Photomicrographs of the Thin Sections (8/17)

Plain polarized light

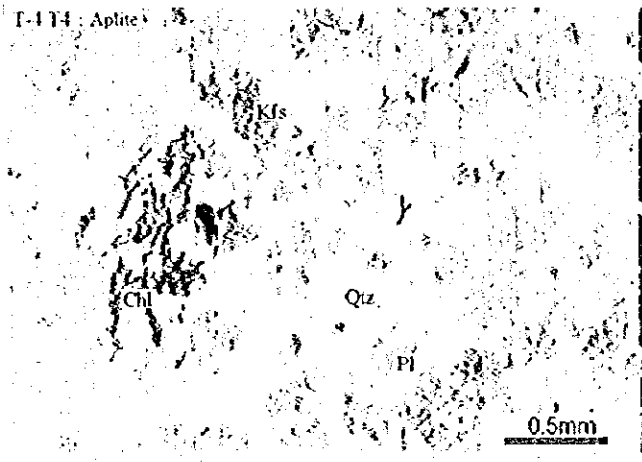
Crossed polarized light

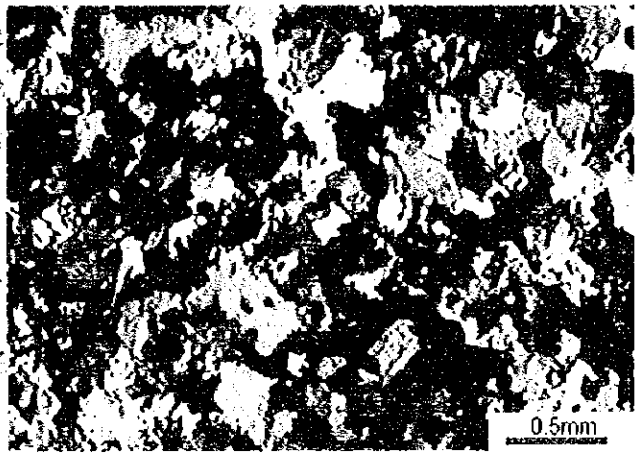
T-1 T3 : Microdiorite



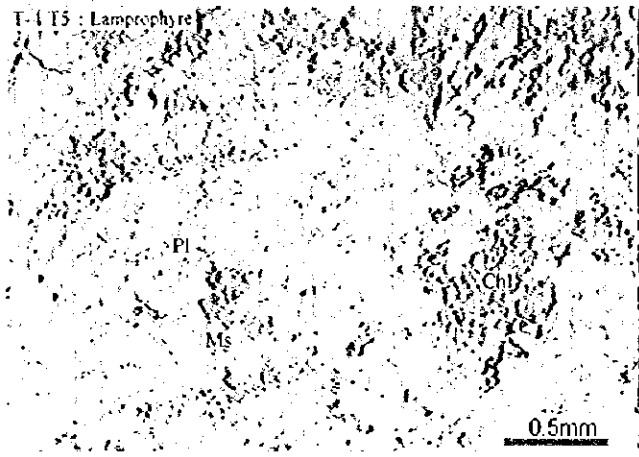


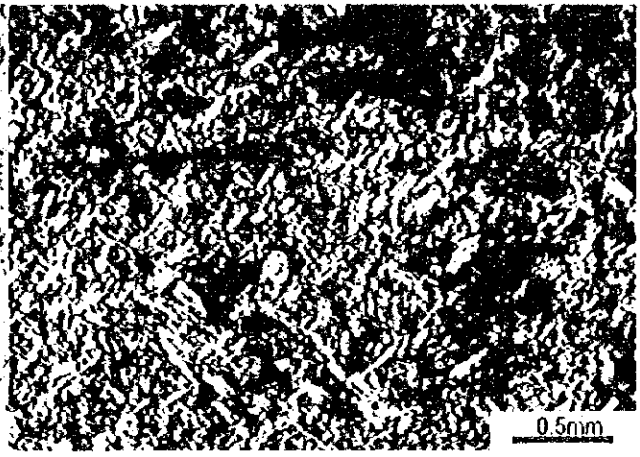
T-1 T4 : Aplite



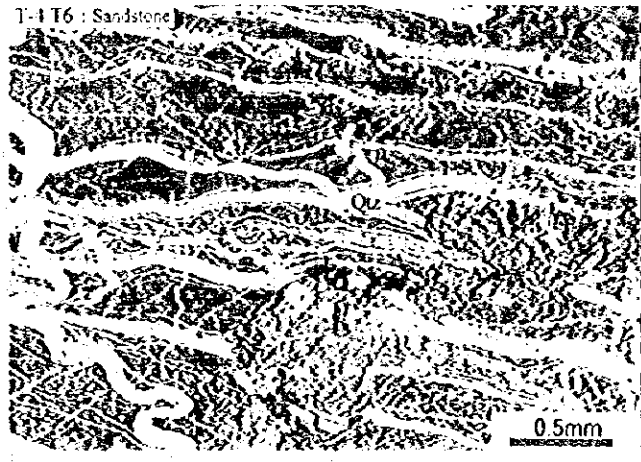


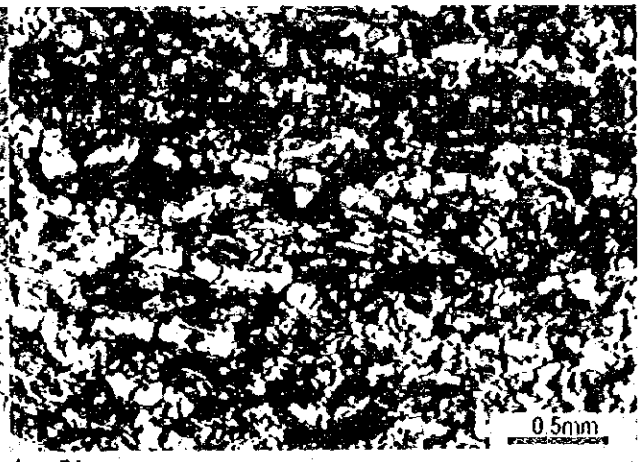
T-1 T5 : Lamprophyre





T-1 T6 : Sandstone



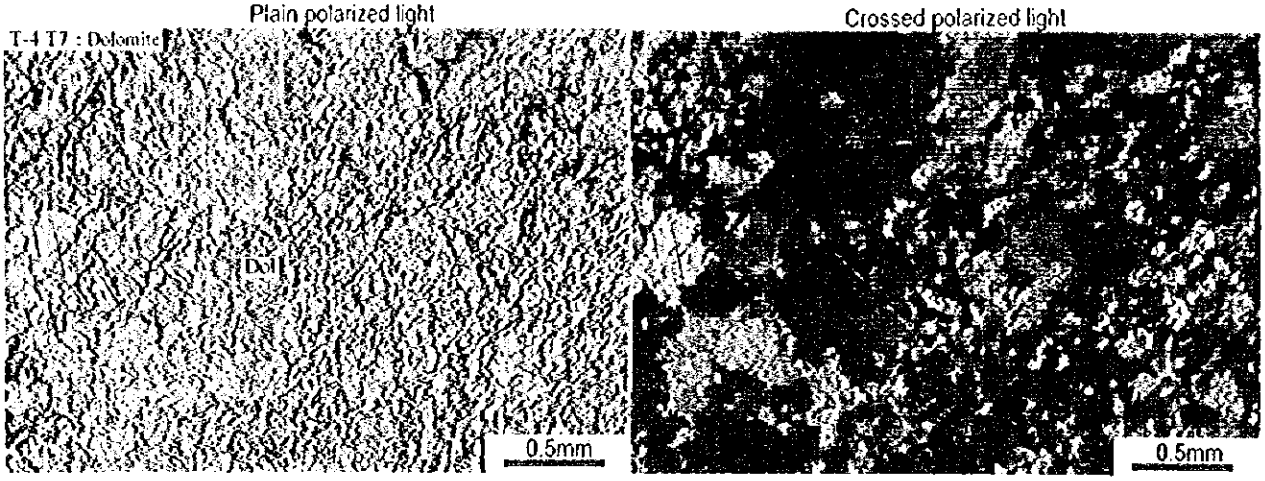


Appendix 2-3 Photomicrographs of the Thin Sections (9/17)

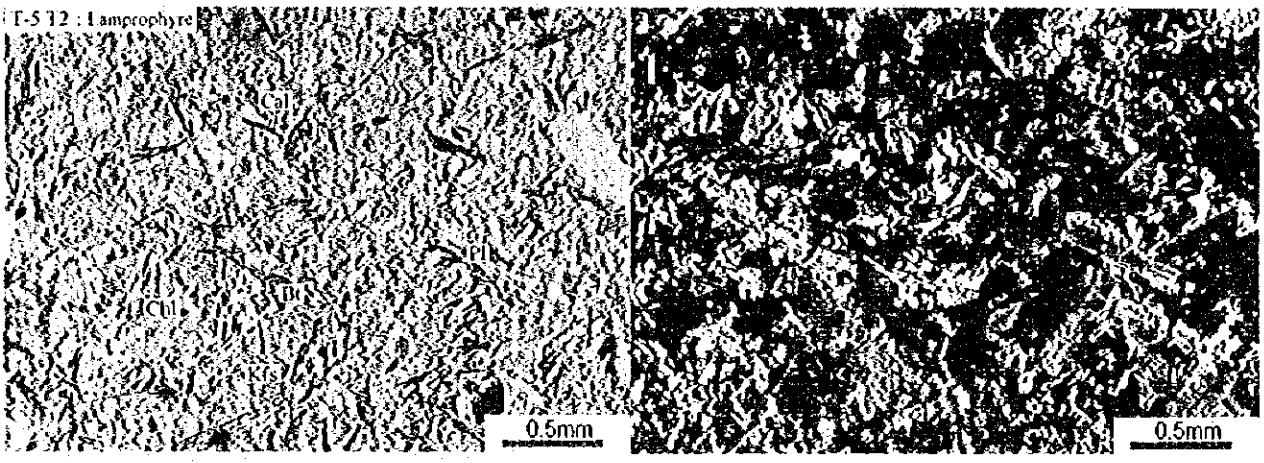
Plain polarized light

Crossed polarized light

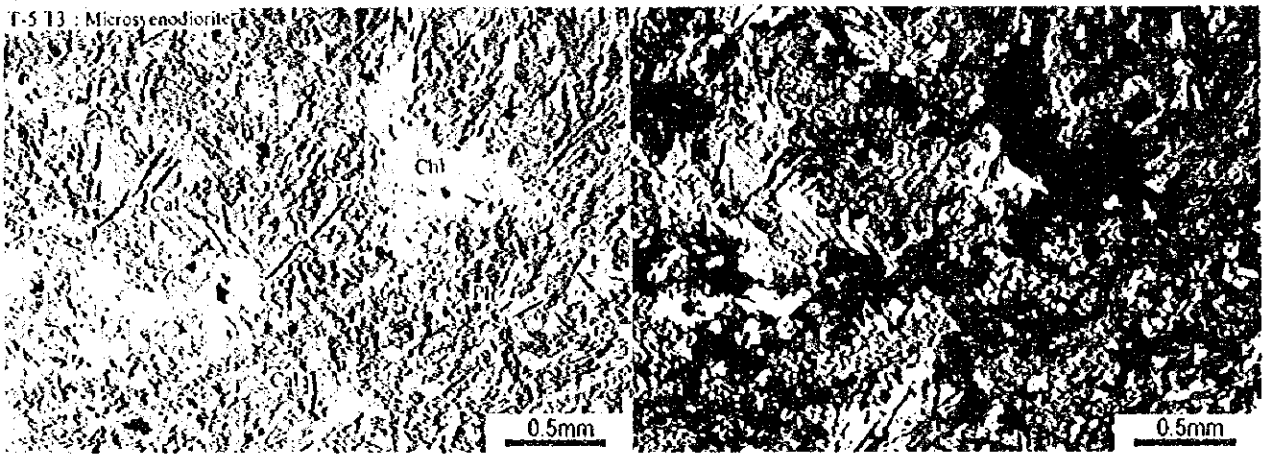
T-4 T7 : Dolomite



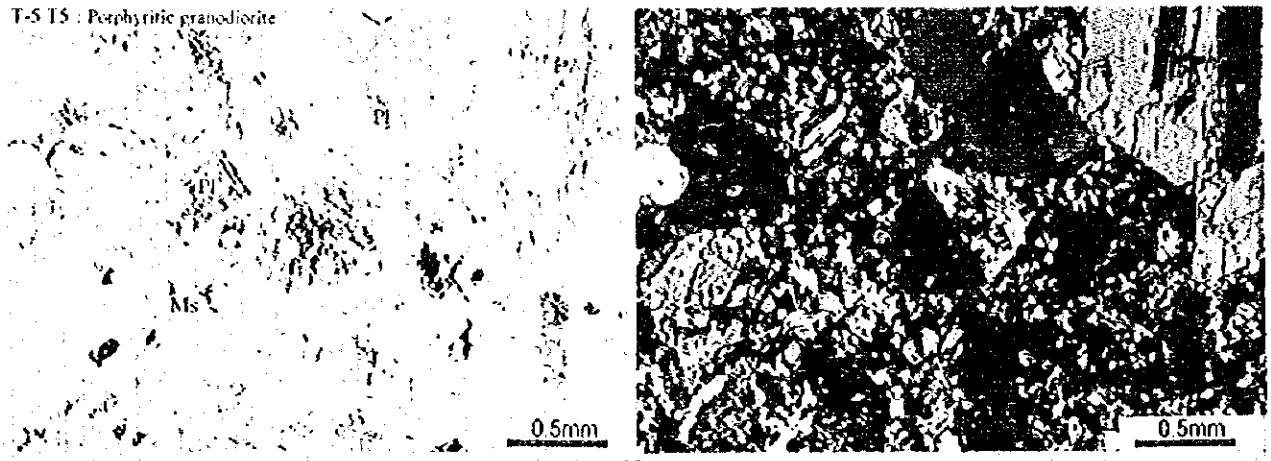
T-5 T2 : Lamprophyre



T-5 T3 : Microsyenodiorite



T-5 T5 : Porphyritic granodiorite

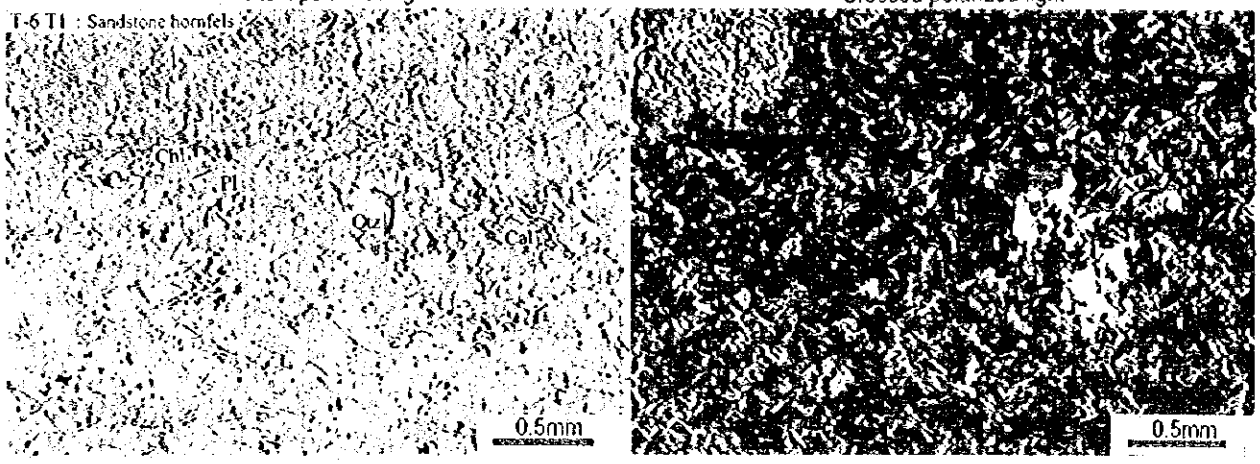


Appendix 2-3 Photomicrographs of the Thin Sections (10/17)

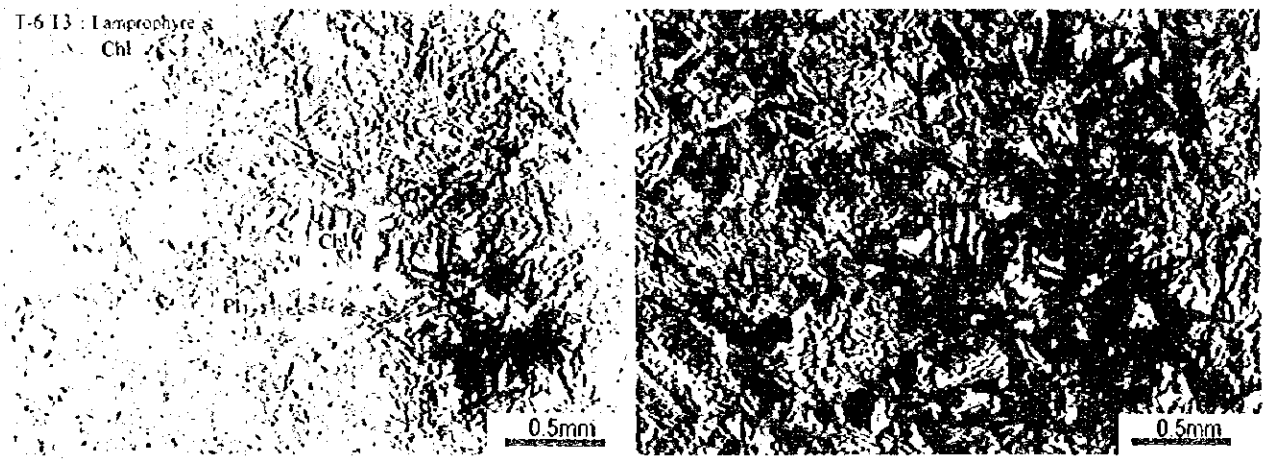
Plain polarized light

Crossed polarized light

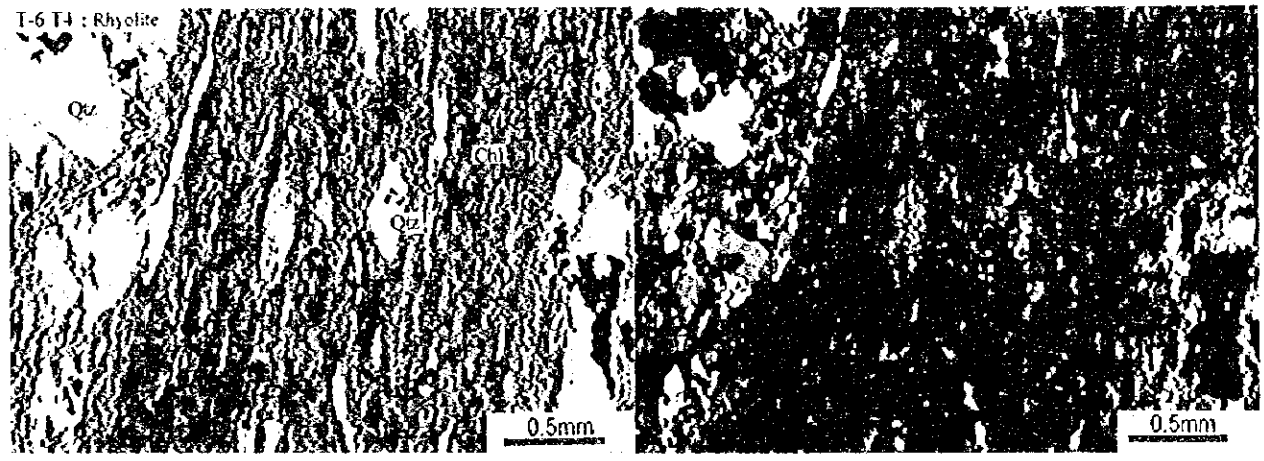
T-6 T1 : Sandstone hornfels



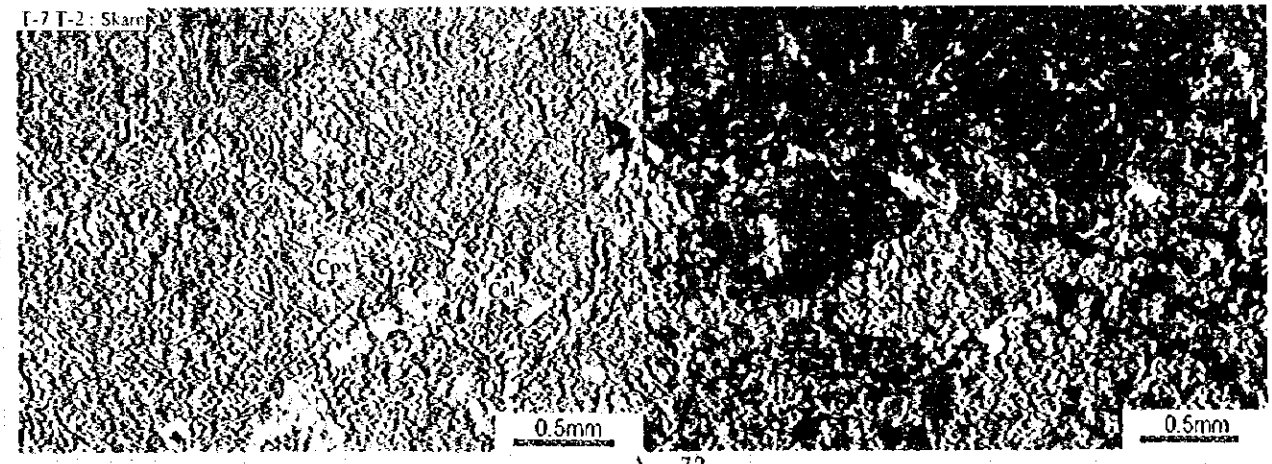
T-6 T3 : Lamprophyre



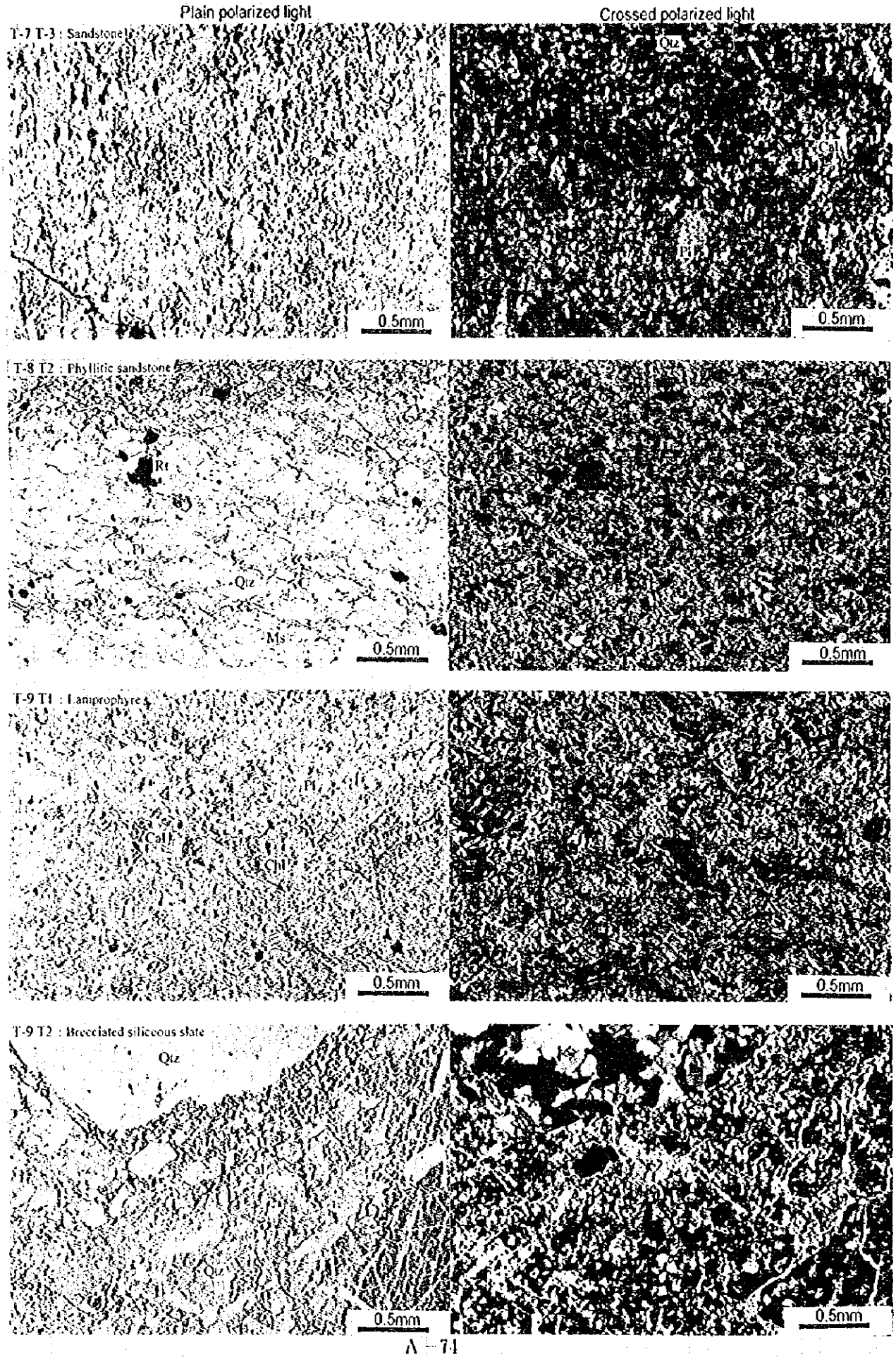
T-6 T4 : Rhyolite



T-7 T-2 : Skarn



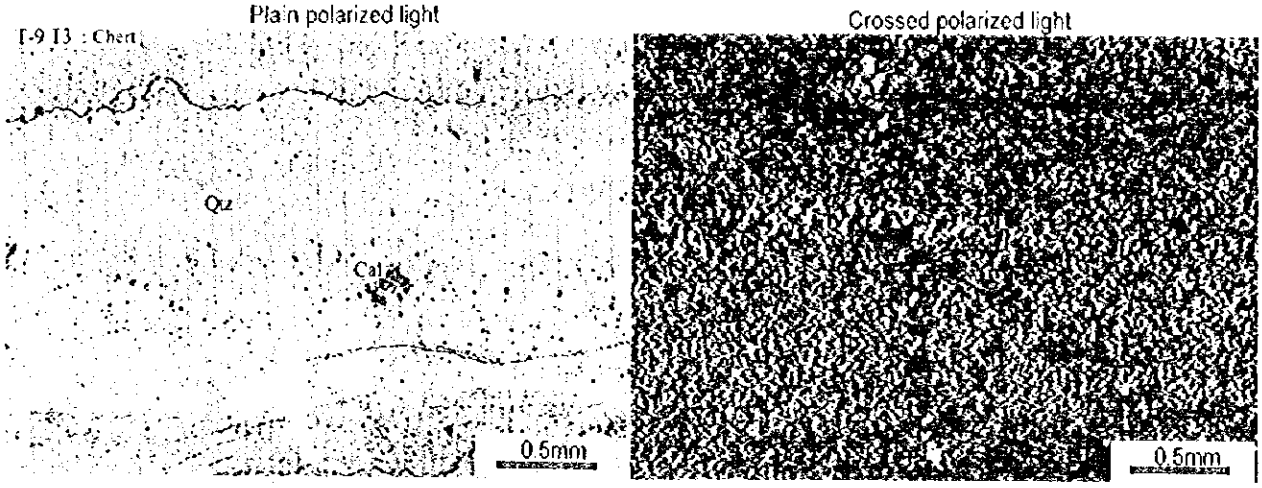
Appendix 2-3 Photomicrographs of the Thin Sections (11/17)

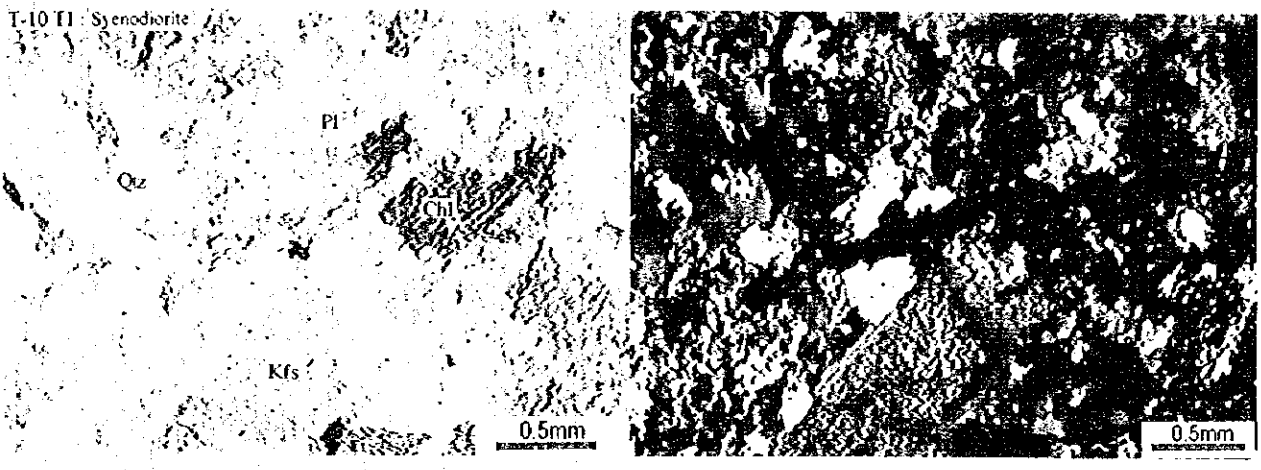


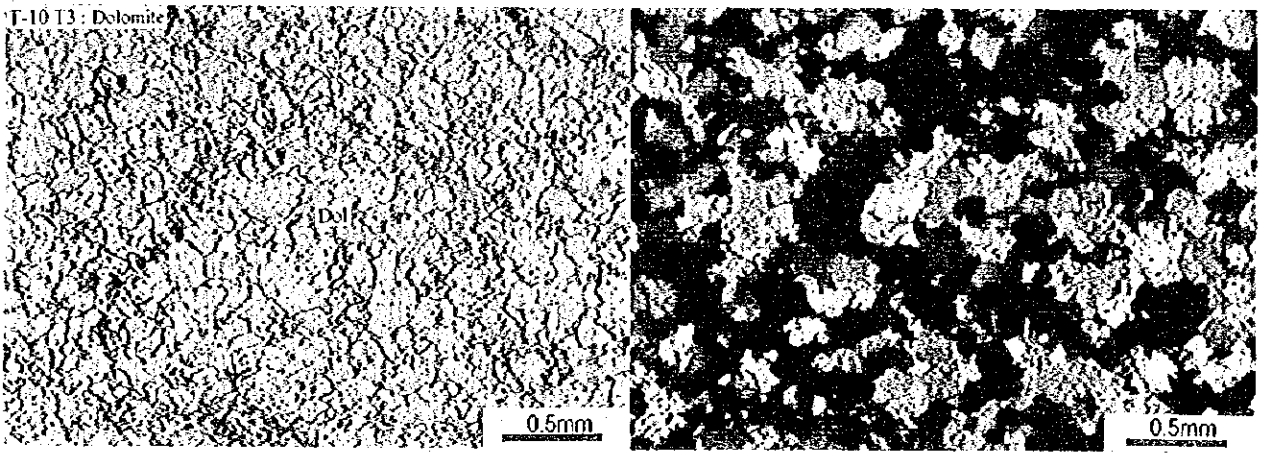
Appendix 2-3 Photomicrographs of the Thin Sections (12/17)

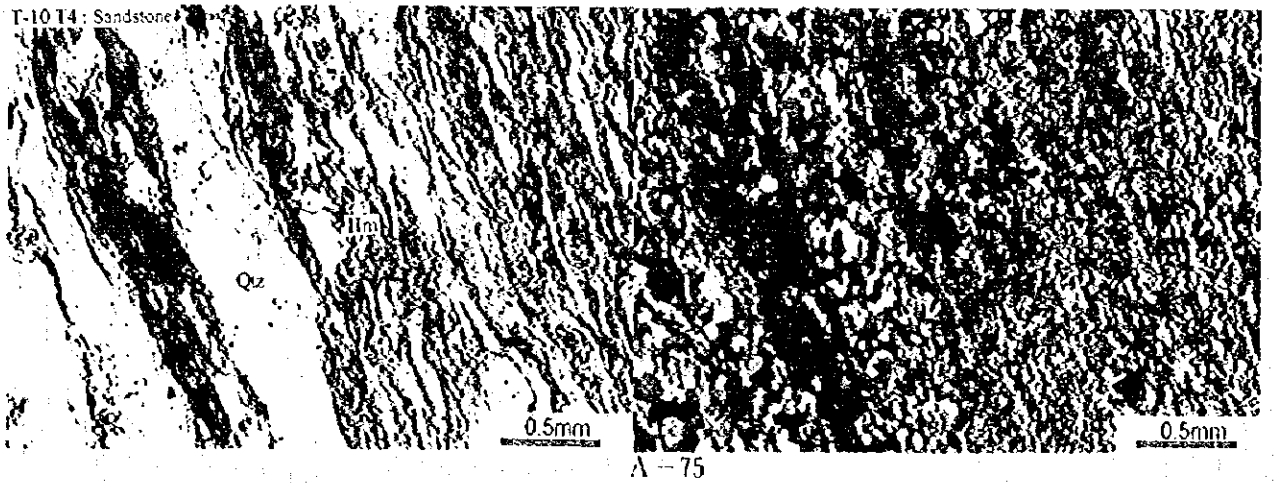
Plain polarized light

Crossed polarized light







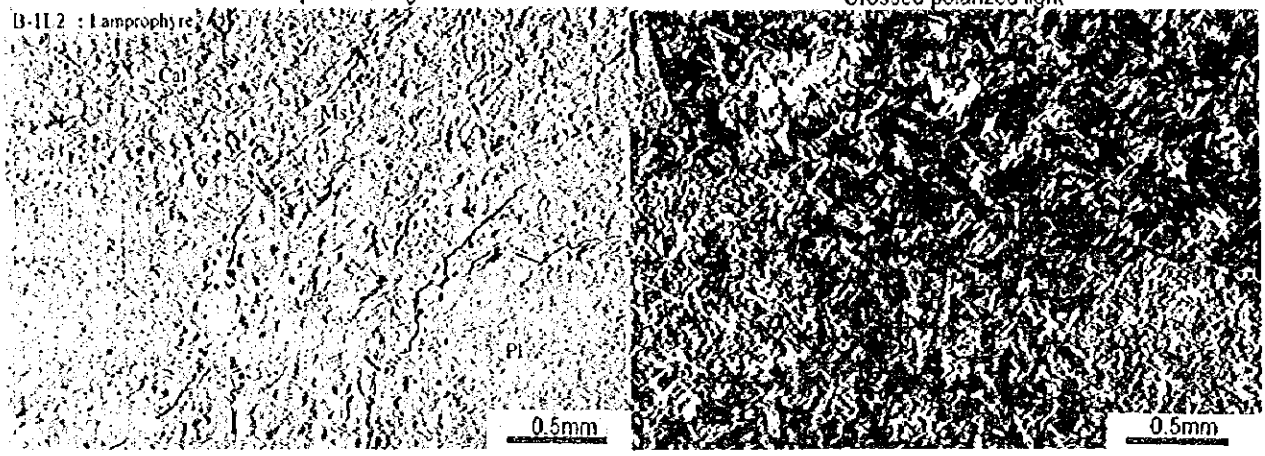


Appendix 2-3 Photomicrographs of the Thin Sections (13/17)

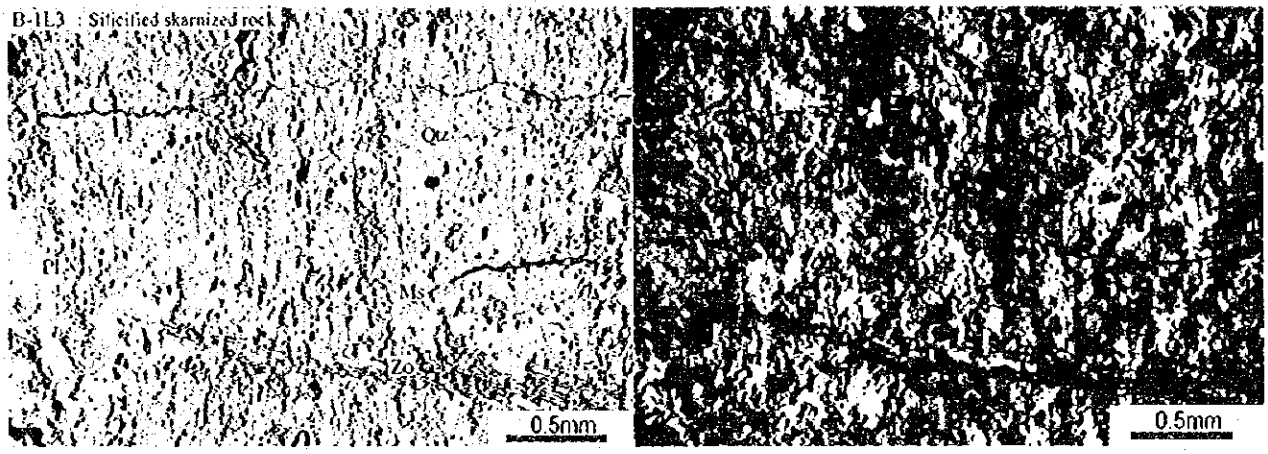
Plain polarized light

Crossed polarized light

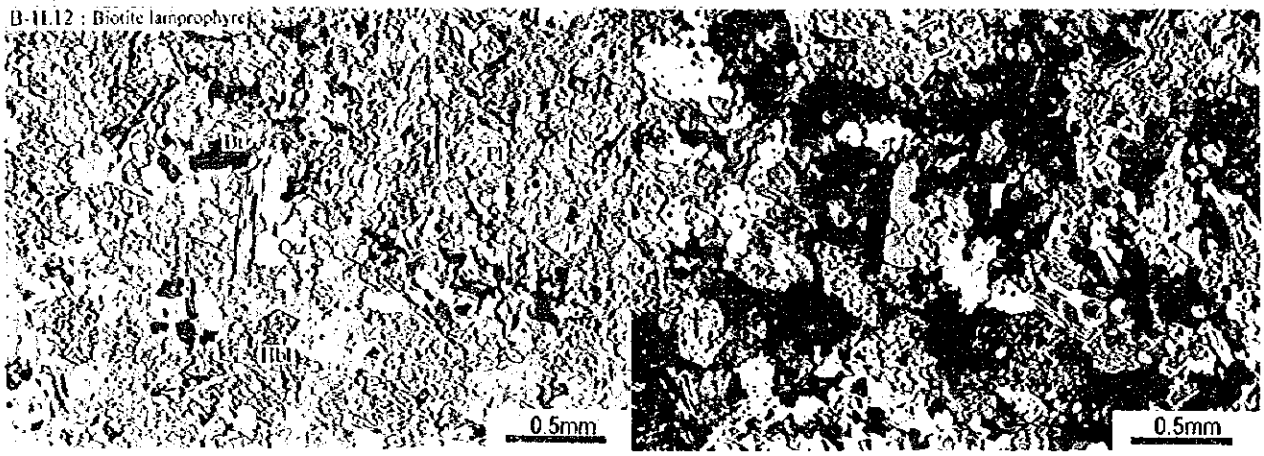
B-1L2 : Lamprophyre



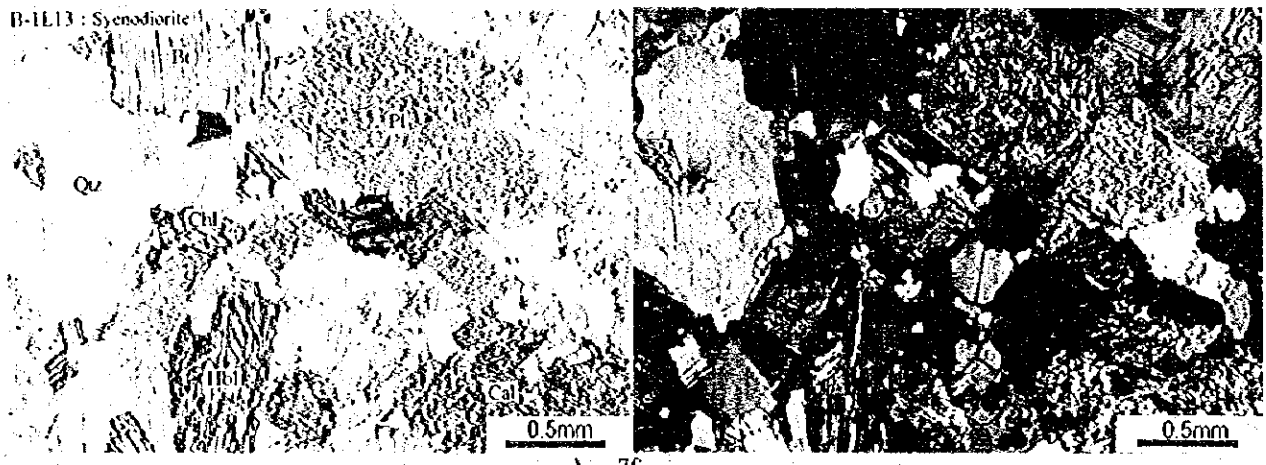
B-1L3 : Silicified skarnized rock



B-1L12 : Biotite lamprophyre



B-1L13 : Syenodiorite

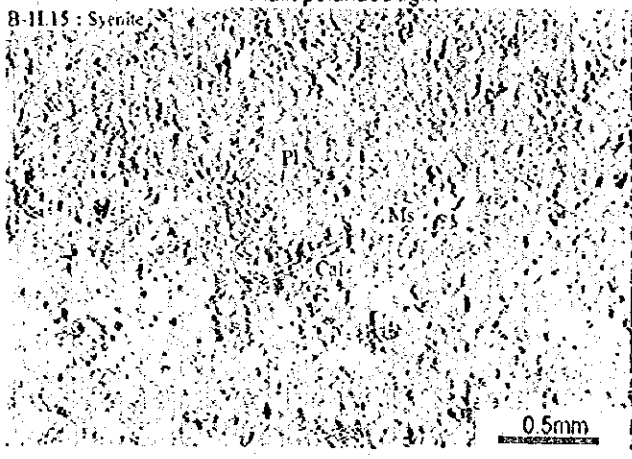


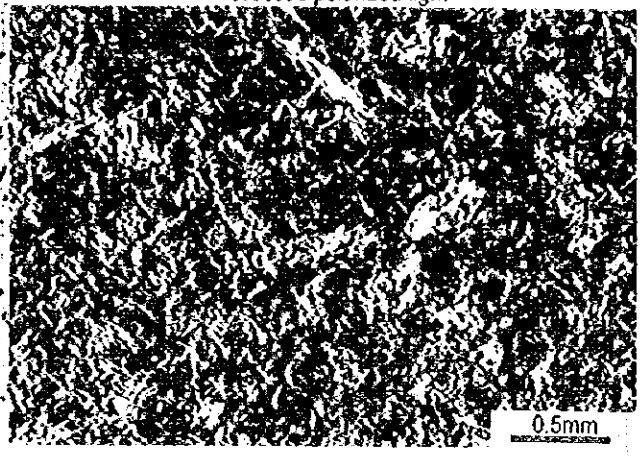
Appendix 2-3 Photomicrographs of the Thin Sections (14/17)

Plain polarized light

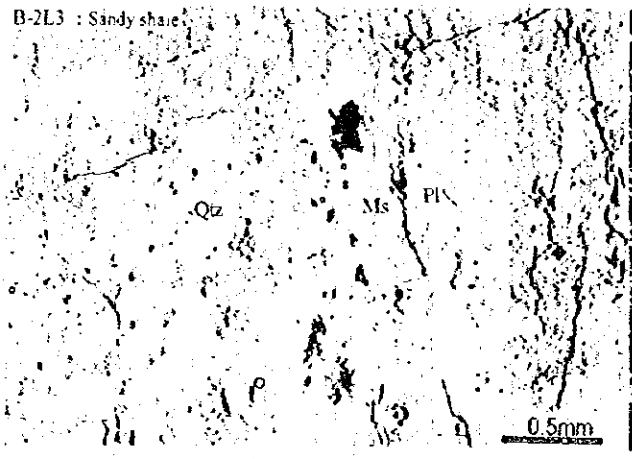
Crossed polarized light

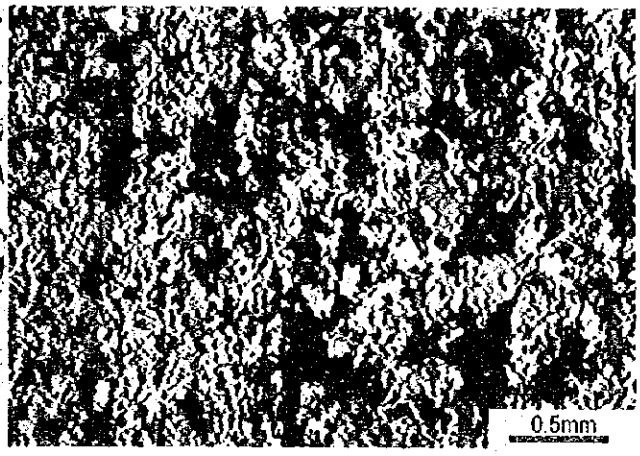
B-1L15 : Syenite



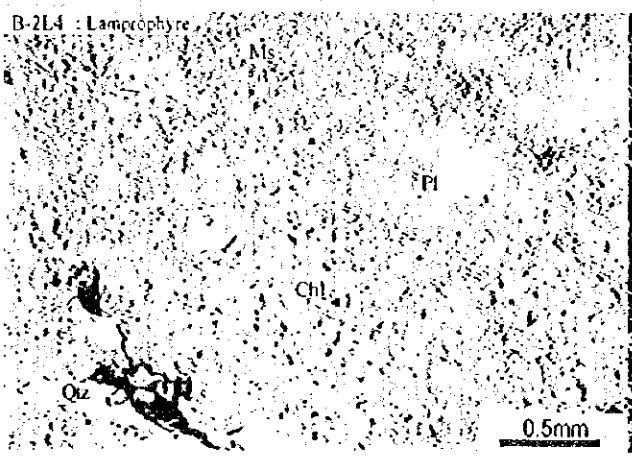


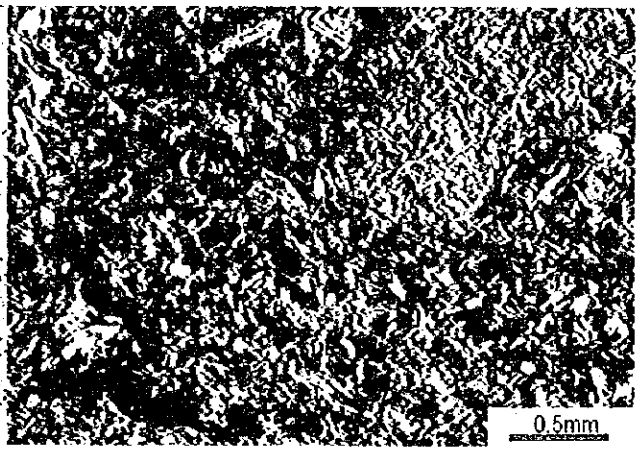
B-2L3 : Sandy shale



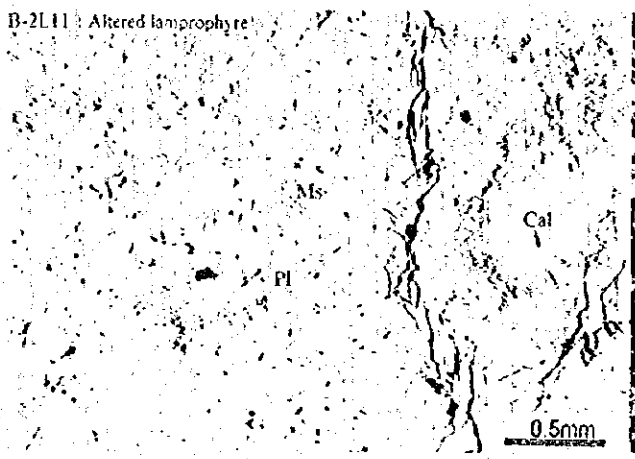


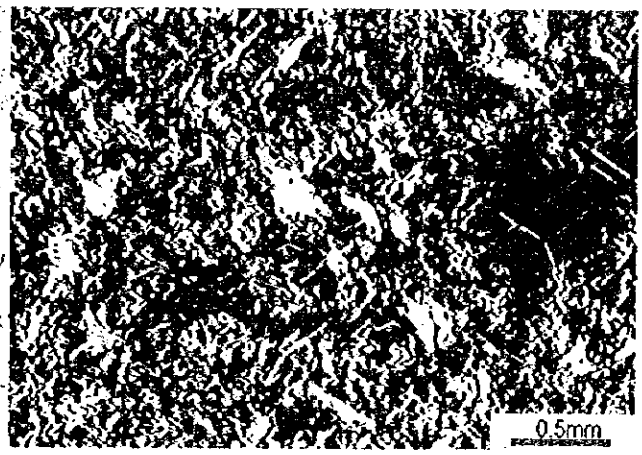
B-2L4 : Lamprophyre





B-2L11 : Altered lamprophyre



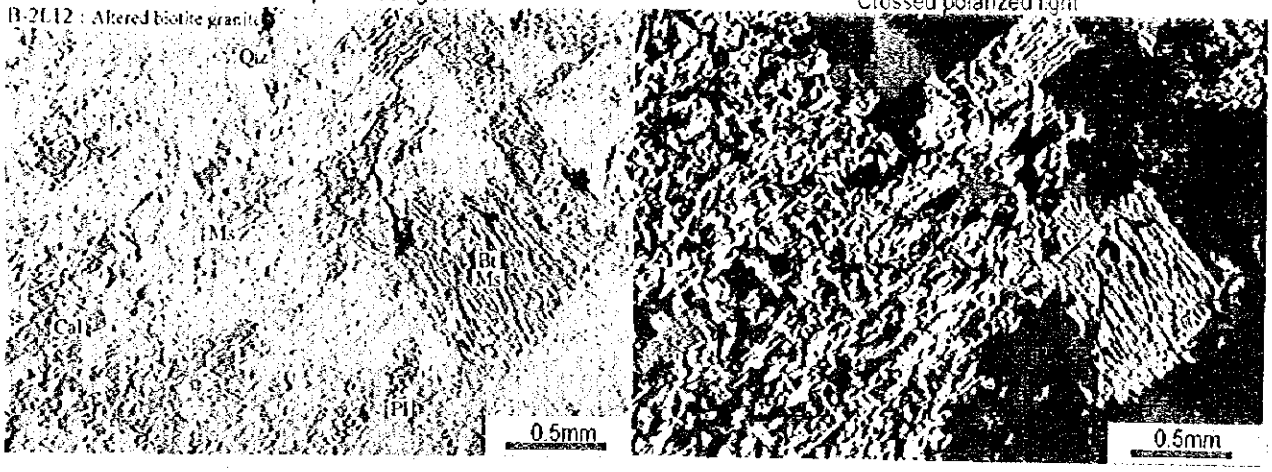


Appendix 2-3 Photomicrographs of the Thin Sections (15/17)

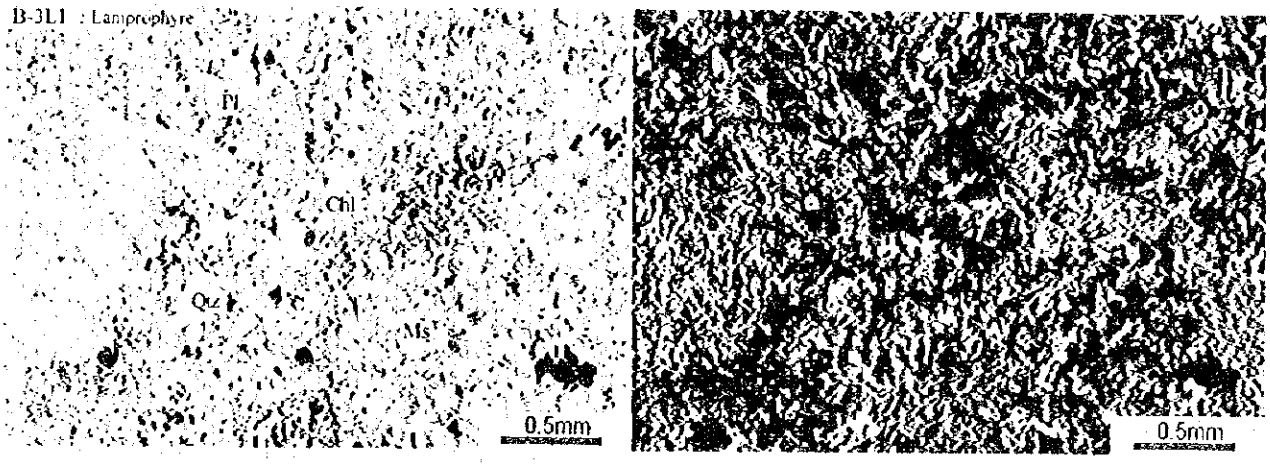
Plain polarized light

Crossed polarized light

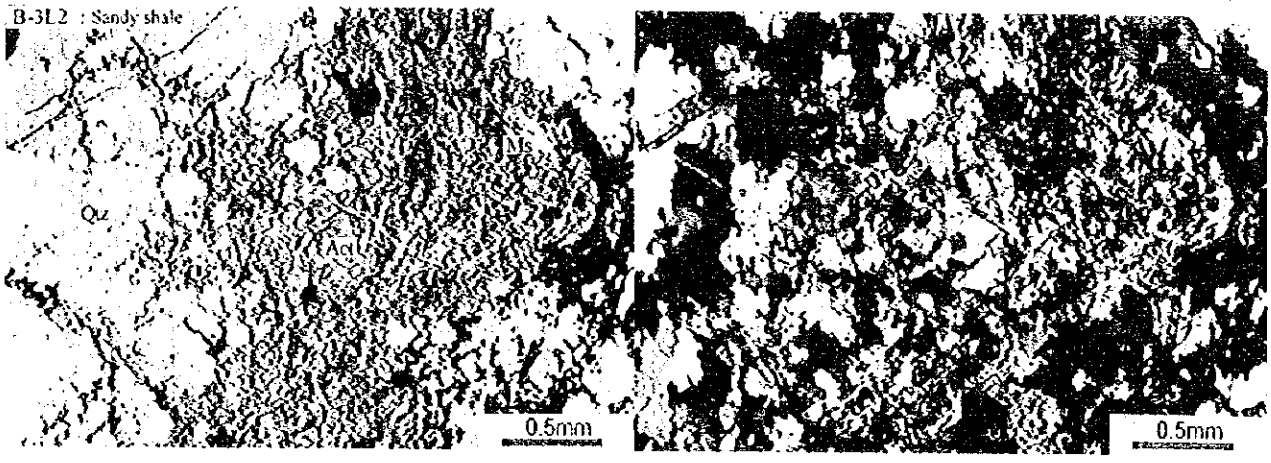
B-2L12 : Altered biotite granite



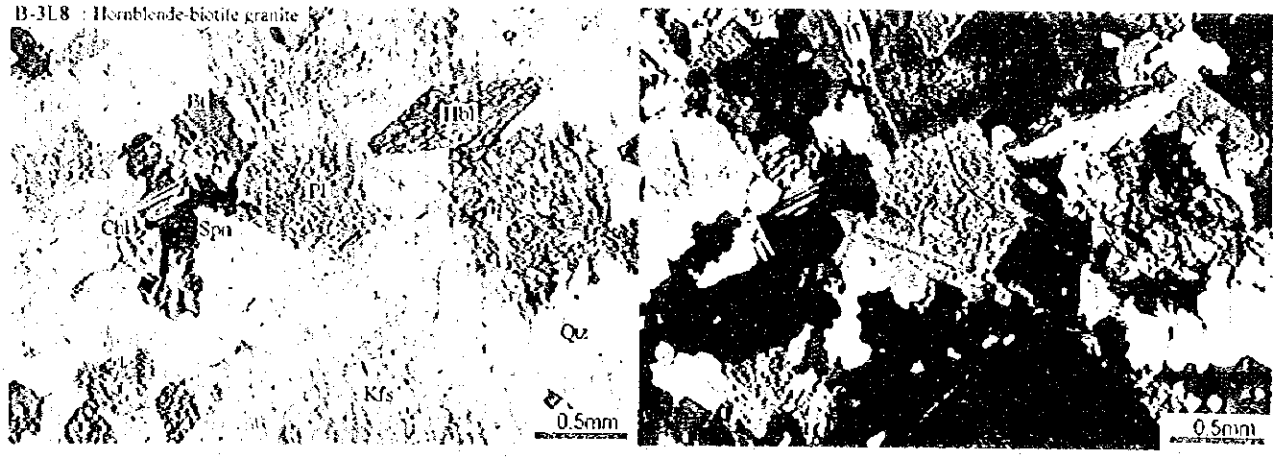
B-3L1 : Lamprophyre



B-3L2 : Sandy shale



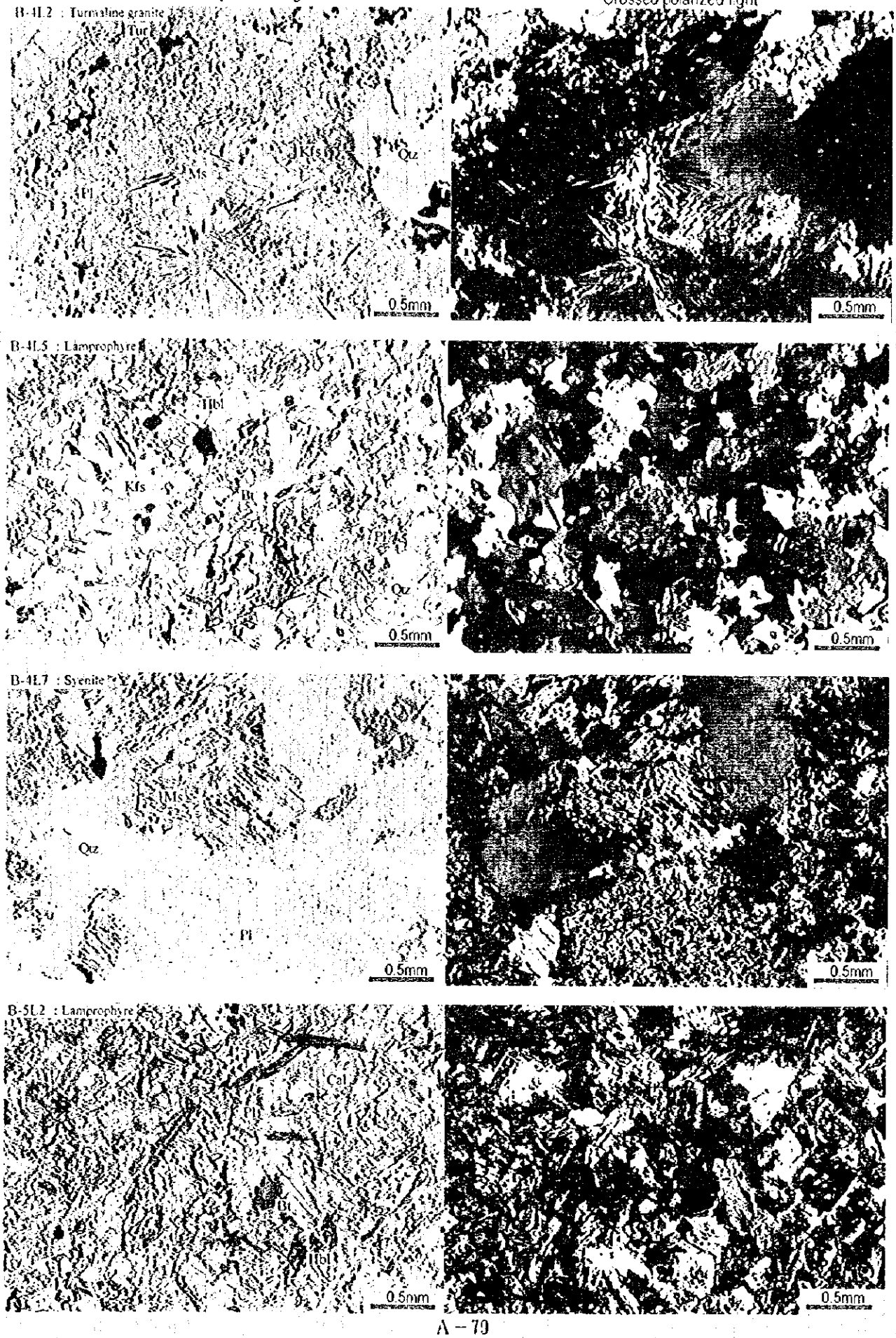
B-3L8 : Hornblende-biotite granite



Appendix 2-3 Photomicrographs of the Thin Sections (16/17)

Plain polarized light

Crossed polarized light

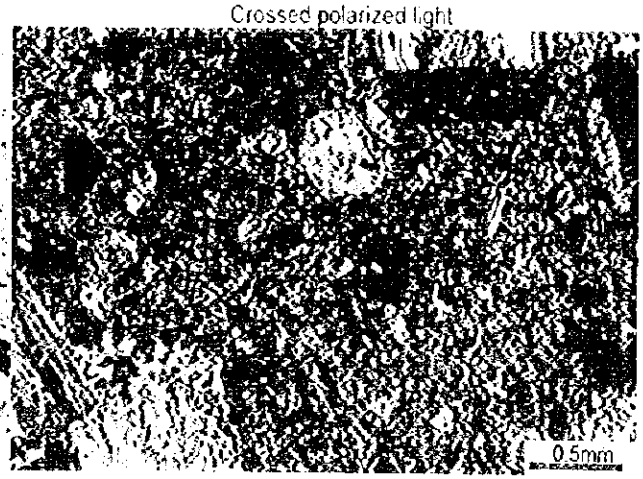


Appendix 2-3 Photomicrographs of the Thin Sections (17/17)

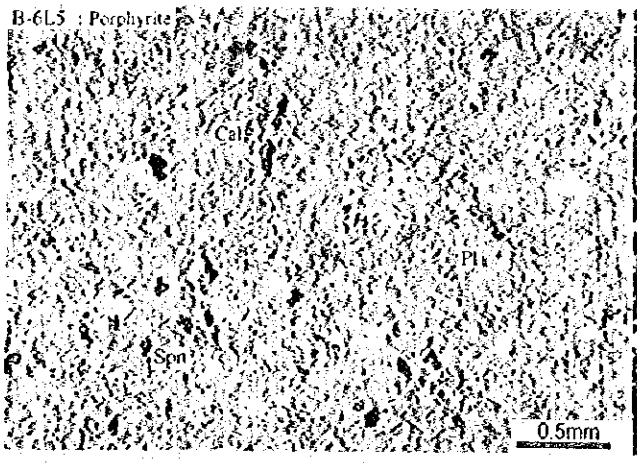
Plain polarized light

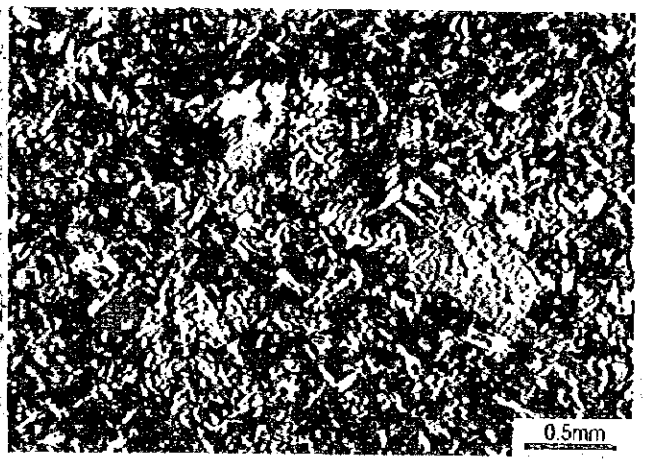
Crossed polarized light

B-5L3 : Diorite

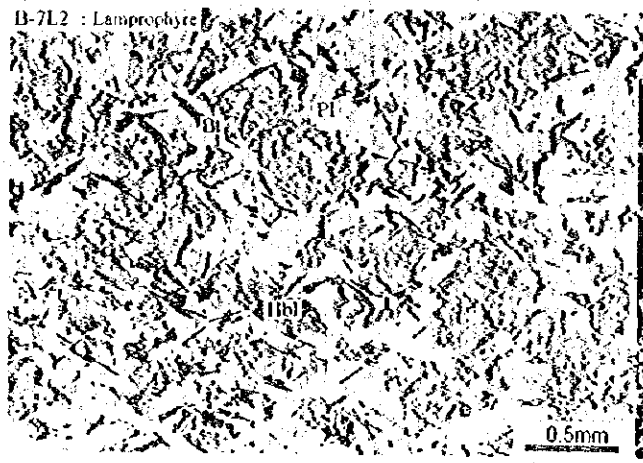


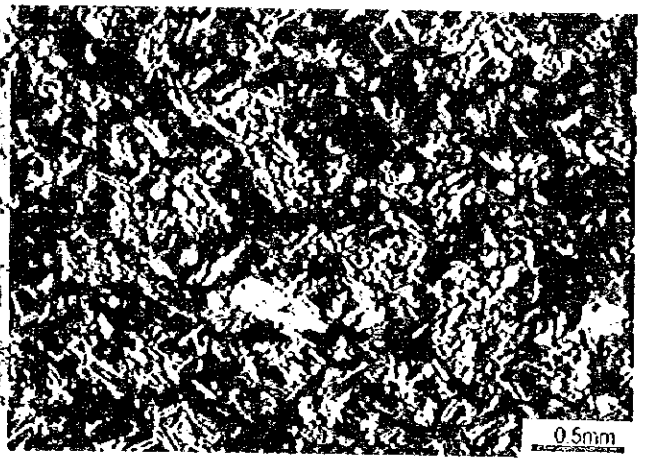
B-6L5 : Porphyrite



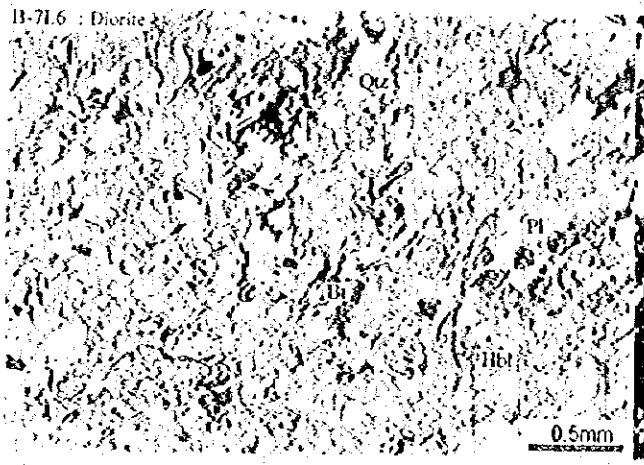


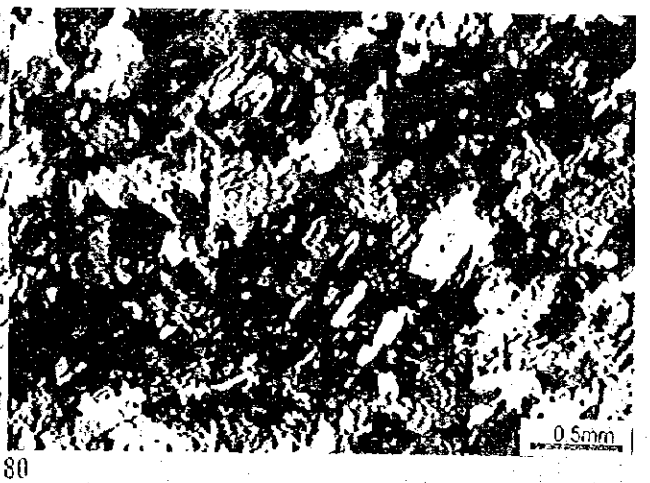
B-7L2 : Lamprophyre





B-7L6 : Diorite





Appendix 2-4 Microscopic Observations of the Polished Sections (1/3)

	Sample No.	Locality	Field name	Pyrrhotite	Chalcopyrite	Sphalerite	Galena	Arsenopyrite	Pyrite	Native bismuth	Bismuthinite	Aikinite	Scheelite	Native gold	Graphite	Marcasite	Chalcocite	Covellite	Goethite	Lepidochrocite	Magnetite	Rutile	Fe sulfate
1	S-1L 2	MJUS-1 138.4m	greenish grey altered shale						◎													△	
2	S-1L 5	MJUS-1 205.4m	grey altered silicified rock	◎	△				◎				·			○							
3	S-2L 6	MJUS-2 261.7m	greenish grey skarn	○	△	·		○	○							△							
4	S-2L 9	MJUS-2 369.0m	light green skarn	◎	·						·		△										
5	S-2L 13	MJUS-2 418.2m	dark grey green skarn	◎	○				○				○										
6	S-2L 15	MJUS-2 389.2m	grey altered silicified rock	◎	·		·		◎				○			○							
7	S-3L 2	MJUS-3 133.9m	greenish green skarn						◎							○							
8	S-3L 6	MJUS-3 331.5m	dark green skarn	○	△				○				△			○							
9	S-3L 7	MJUS-3 361.0m	dark green skarn	◎	△				○	·	·	·					·	·	△				
10	S-3L 10	MJUS-3 295.4m	dark grey silicified rock	·	·				○				△			○	·	○			△		
11	S-4L 2	MJUS-4 79.5m	dark green skarn	·					◎				△			△	·	·	△	△			
12	S-4L 4	MJUS-4 214.8m	skarnized limestone			·			◎				·									·	
13	S-4L 7	MJUS-4 304.3m	grey skarn	·					◎				·			△							
14	S-4L 8	MJUS-4 311.7m	dark grey skarn	○	·				△				·			◎			○		△		
15	T-1 P1	T-1 361.8m	reddish brown oxidized sulfides																◎	○			
16	T-1 P2	T-1 361.8m	brown silicified rock																◎	◎		·	
17	T-1 P4	T-1 930m	grey silicified rock																△	△			
18	T-1 P5	T-1 978.5m	white brecciated quartz						·										◎			·	
19	T-2 P1	T-2 218m	oxidized sulfide network																○	◎			
20	T-2 P2	T-2 220m	dark grey silicified rock																◎	◎		△	
21	T-2 P3	T-2 221.3m	brown brecciated silicified rock																◎	○		·	
22	T-2 P4	T-2 226.5m	greenish yellow silicified rock																○	◎			

◎ : Abundant ○ : Common △ : Poor · : Rare

Appendix 2-4 Microscopic Observations of the Polished Sections (2/3)

	Sample No.	Locality	Field name	Minerals: Pyrrhotite	Chalcopyrite	Sphalerite	Galena	Arsenopyrite	Pyrite	Native bismuth	Bismuthinite	Aikinite	Scheelite	Native gold	Graphite	Marcasite	Chalcocite	Covellite	Goethite	Lepidochrocite	Magnetite	Rutile	Fe sulfate
23	T-2 P5	T-2 240.5m	brownish grey silicified rock	·															◎	○			
24	T-2 P6	T-2 245.5m	reddish brown grey silicified rock											○					△	○			
25	T-2 P7	T-2 256.9m	brownish chalcedonic rock																△			·	
26	T-3 P1	T-3 192.2m	deep green-reddish brown silicified rock	·															○	△		·	
27	T-3 P2	T-3 234m	black silicified rock												△				○	△			
28	T-3 P3	T-3 319m	black silicified-skarnized rock																○	○			
29	T-3 P4	T-3 380m	black brecciated siliceous slate												○				△				
30	T-4 P1	T-4 204.5m	gossan with grey quartz												○				△				
31	T-4 P3	T-4 364m	reddish brown sandstone hornfels						·										△				
32	T-4 P5	T-4 171.3m	grey-brown silicified rock												△				○			·	
33	T-4 P6	T-4 171.5m	grey-brown silicified rock						·						·				◎	○			
34	T-5 P1	T-5 152.5m	brown silicified rock						·						△				◎				
35	T-5 P2	T-5 339.5m	white silicified-skarnized rock																△				
36	T-6 P1	T-6 644.5m	dark reddish brown oxidized ore												·				◎	○		△	
37	T-6 P2	T-6 690m	white-brown quartz																◎	○			
38	T-6 P4	T-6 214.5m	reddish brown silicified gossan																◎	◎			
39	T-7 P1	T-7 290m	reddish brown altered sandstone						△						·				○	○		△	
40	T-7 P2	T-7 372.7m	dark brown-grey chalcedonic rock																○	○		·	
41	T-7 P3	T-7 376m	dark brown-grey chalcedonic rock																·			·	
42	T-7 P4	T-7 550.5m	reddish brown chalcedonic rock																◎	○			
43	T-8 P1	T-8 316.6m	grey-brown quartz						·						△				○	○		·	
44	T-8 P2	T-8 397.5m	brown silicified-skarnized limestone																◎	○			

◎ : Abundant ○ : Common △ : Poor · : Rare

Appendix 2-4 Microscopic Observations of the Polished Sections (3/3)

	Sample No.	Locality		Field name	Minerals: Pyrrhotite	Chalcopyrite	Sphalerite	Galena	Arsenopyrite	Pyrite	Native bismuth	Bismuthinite	Aikinite	Scheelite	Native gold	Graphite	Marcasite	Chalcocite	Covellite	Goethite	Lepidochrocite	Magnetite	Rutile	Pe sulfate
45	T-8 P4	T-8	444m	brown silicified gossan																·	○			
46	T-8 P5	T-8	572m	reddish brown brecciated silicified rock																◎	◎		·	
47	T-9 P2	T-9	460.8m	reddish brown silicified vein																○	○		·	
48	T-10 P1	T-10	410.5m	grey quartz	△	·											·			◎	○			
49	T-10 P2	T-10	412m	grey silicified rock	○	·											·	·	·	◎	○		·	
50	T-10 P3	T-10	817m	grey quartz	△	·												·	·	◎	○			
51	B-1L 3	MJUB-1	37.2m	silicified skarnized rock	○	△			○	◎				·			·			○			·	
52	B-1L 6	MJUB-1	68.5m	sulphide vein in skarn	·	·				○							◎			·				
53	B-1L 8	MJUB-1	84.3m	sulphide vein in skarn	△	○			○	○				·			◎							
54	B-1L 10	MJUB-1	86.5m	greenish dark grey skarn	○	○					·	·		·		△	◎			△				
55	B-2L 2	MJUB-2	31.1m	vein quartz in green skarn		·				◎										○	○		·	
56	B-2L 7	MJUB-2	94.1m	sulphide vein in skarn	·	△			○	◎				·										
57	B-2L 8	MJUB-2	103.9m	greenish dark grey skarn	○	◎	·		·	△	·	·	·	·			△			·				
58	B-2L 12	MJUB-2	166.8m	sulphide vein with altered diorite	△	○	◎	△		◎								·	·	·				
59	B-3L 2	MJUB-3	38.8m	dark grey skarn		△				○				·		○								
60	B-3L 5	MJUB-3	81.6m	sulphide vein in limestone			·			◎				·		○								
61	B-4L 3	MJUB-4	45.7m	grey silicified skarnized rock	△					◎				·			○			·			·	
62	B-4L 4	MJUB-4	80.5m	green skarn						◎														
63	B-5L 4	MJUB-5	108.1m	grey and white altered diorite						◎							·							
64	B-6L 4	MJUB-6	64.3m	green and white silicified skarnized rock	○	△				·				·										
65	B-7L 1	MJUB-7	10.0m	brown chalcedony												·								◎
66	B-7L 3	MJUB-7	50.0m	dark greenish grey skarn	·	·					·	·		·		○	◎	·	·	○			·	
67	B-7L 5	MJUB-7	66.5m	grey skarn with vein quartz	·	·			○								△			○			·	

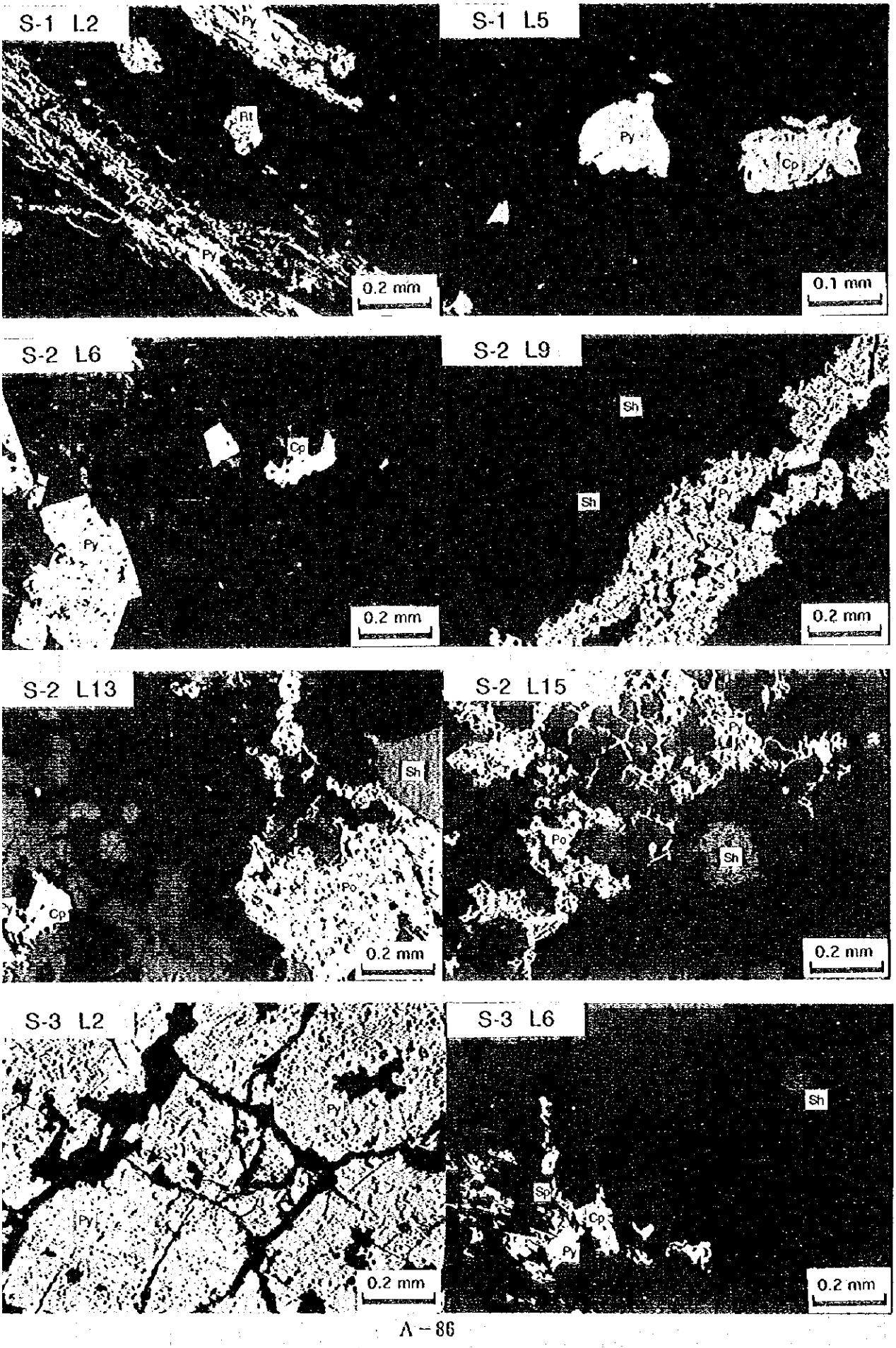
◎ : Abundant ○ : Common △ : Poor · : Rare

Appendix 2-5 Photomicrographs of the Polished Sections

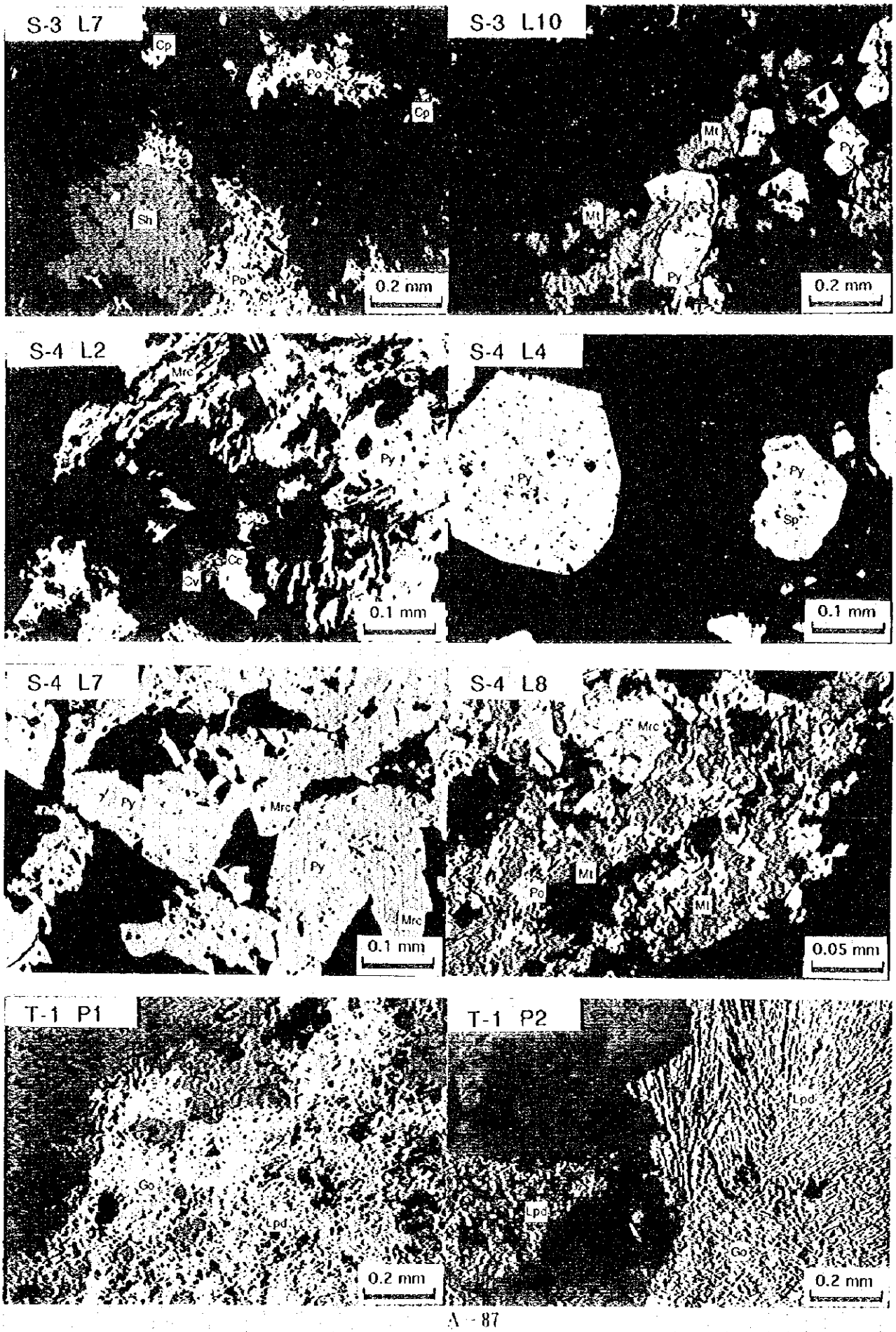
Abbreviations

Ak	:	Aikinite
Asp	:	Arsenopyrite
Au	:	Native-Gold
Bi	:	Native bismuth
Bs	:	Bismuthinite
Cc	:	Chalcocite
Cp	:	Chalcopyrite
Fe Sul	:	Fe sulfate
Ga	:	Galena
Go	:	Goethite
Grp	:	Graphite
Lpd	:	Lepidocrocite
Mrc	:	Marcasite
Mt	:	Magnetite
Po	:	Pyrrhotite
Py	:	Pyrite
Rt	:	TiO_2-Mineral
Sh	:	Scheelite
Sp	:	Sphalerite

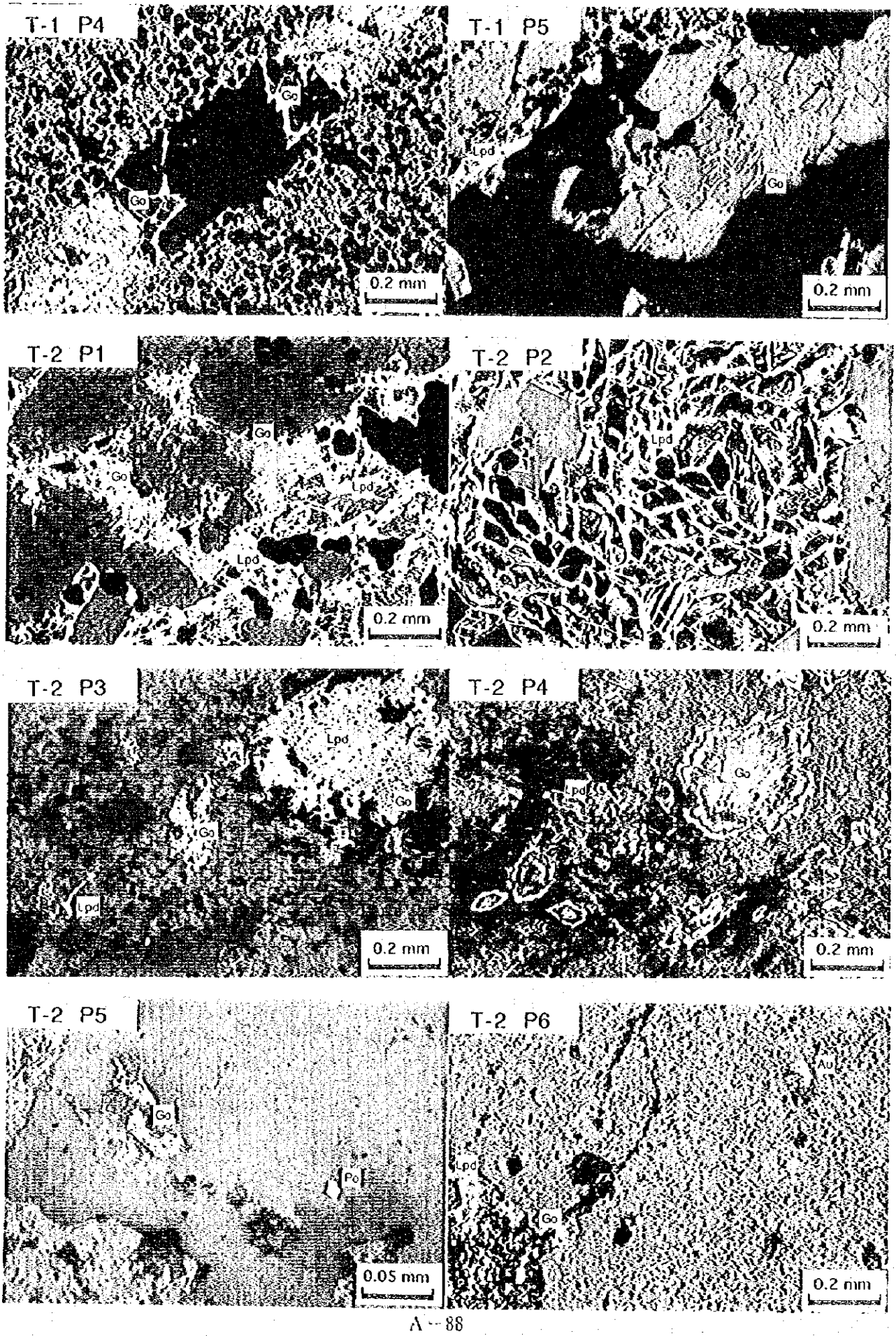
Appendix 2-5 Photomicrographs of the Polished Sections(1/9)



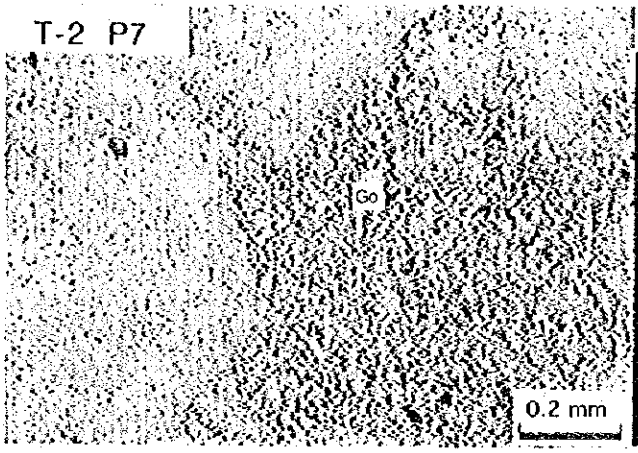
Appendix 2-5 Photomicrographs of the Polished Sections(2/9)

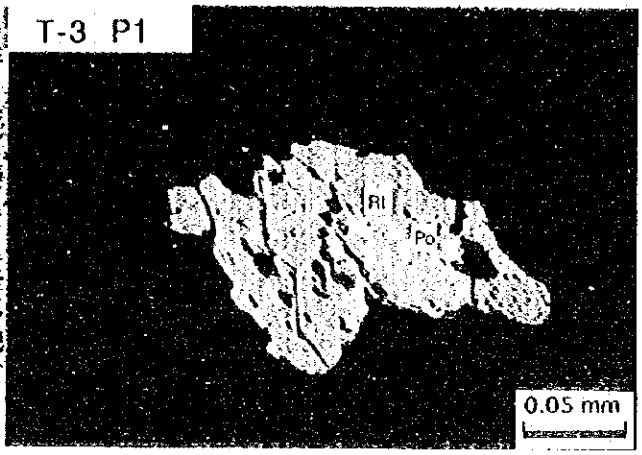


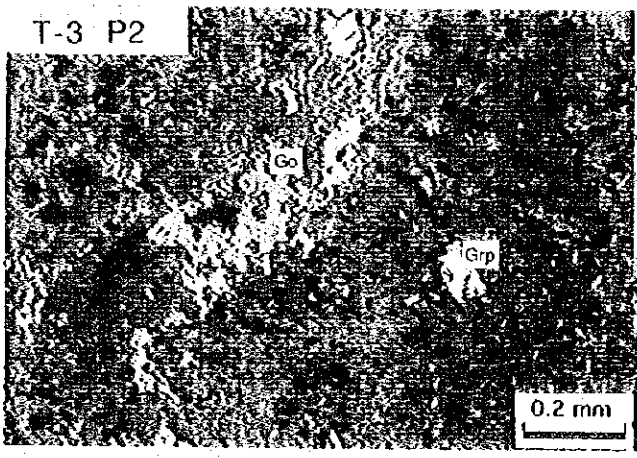
Appendix 2-5 Photomicrographs of the Polished Sections(3/9)

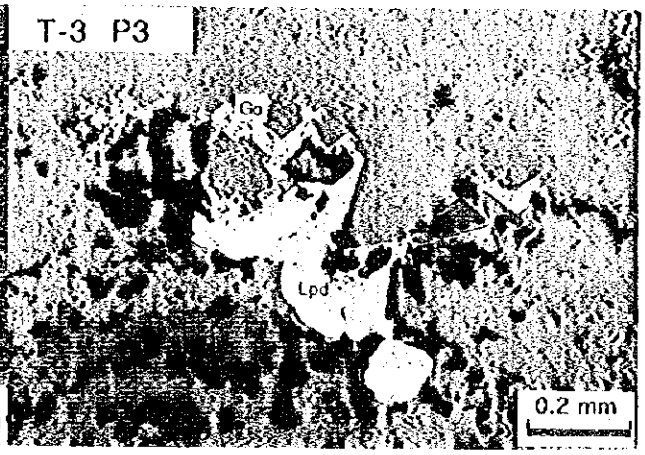


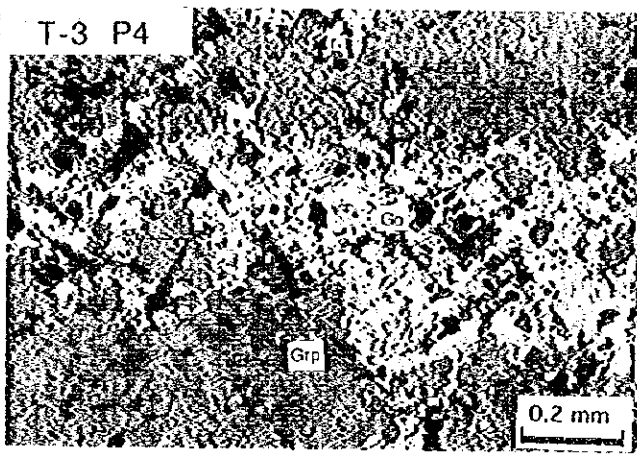
Appendix 2-5 Photomicrographs of the Polished Sections(4/9)

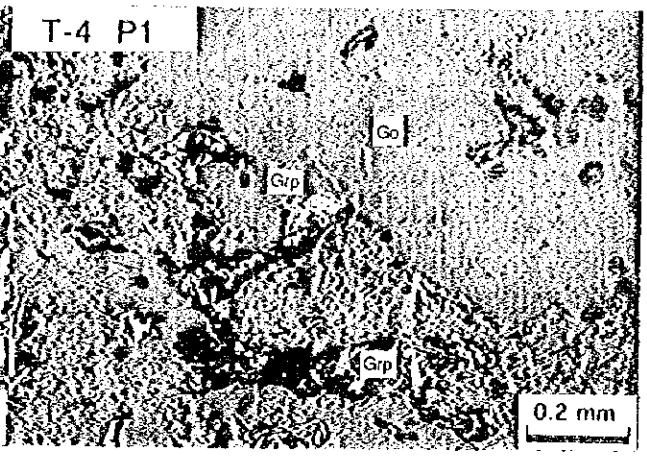


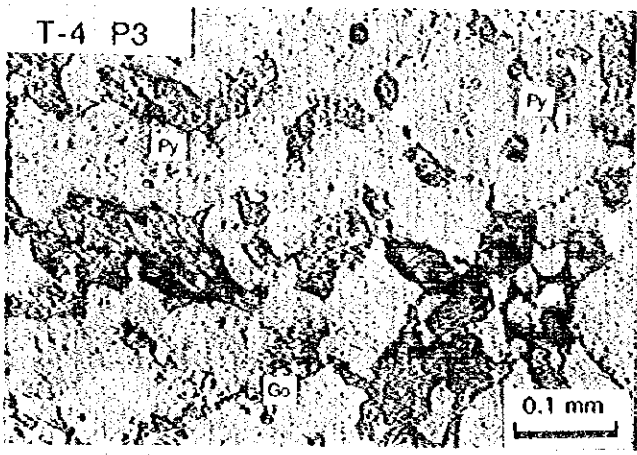


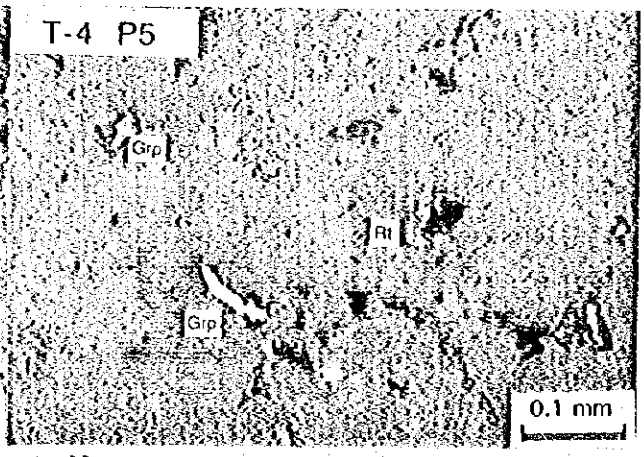












Appendix 2-5 Photomicrographs of the Polished Sections(5/9)