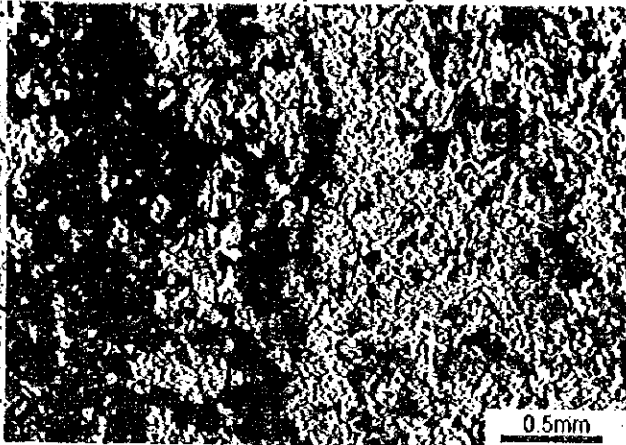
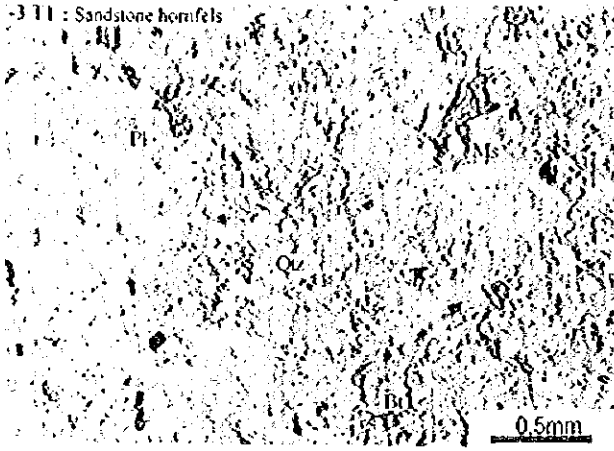


Appendix 2-3 Photomicrographs of the Thin Sections (7/17)

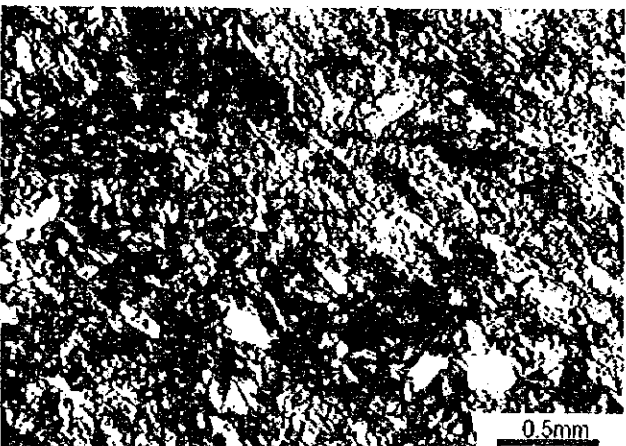
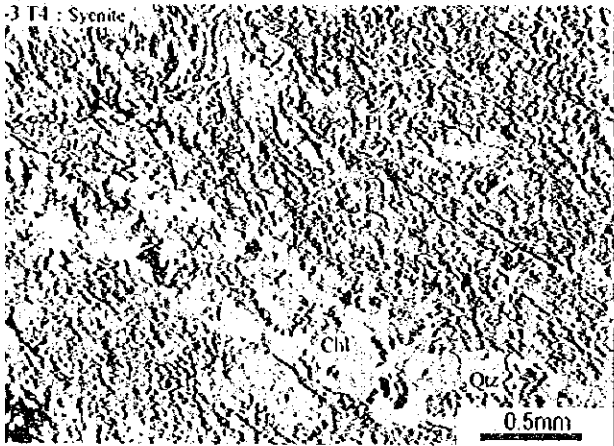
Plain polarized light

Crossed polarized light

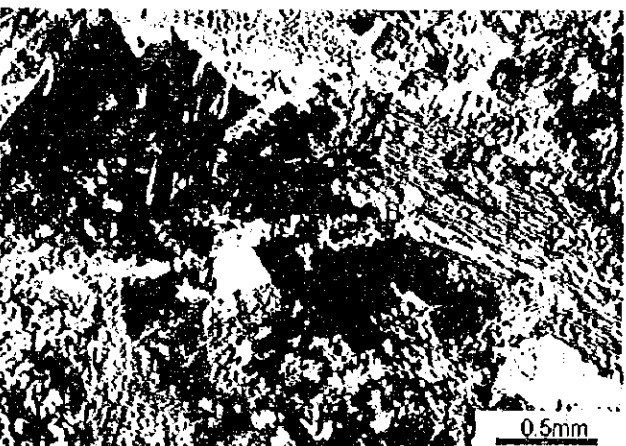
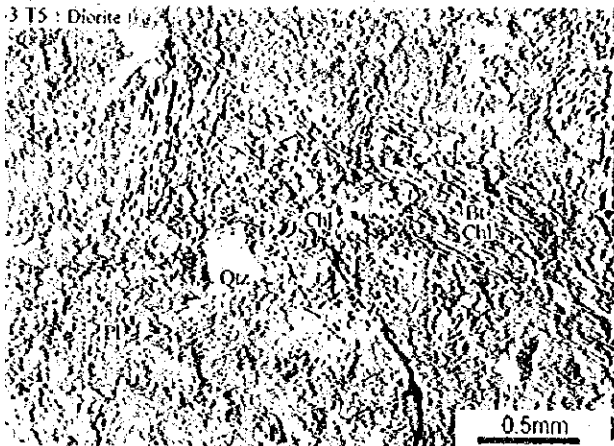
3 T1 : Sandstone hornfels



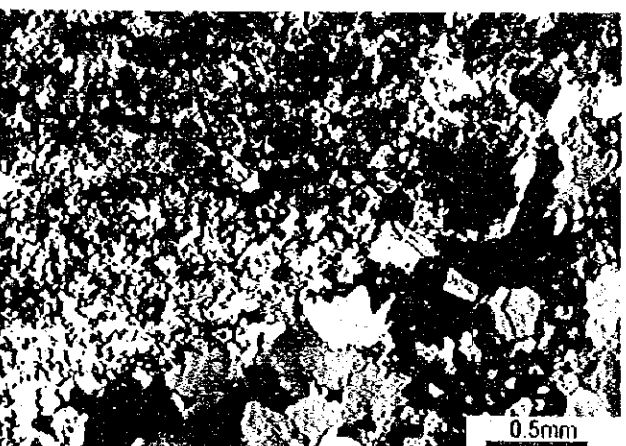
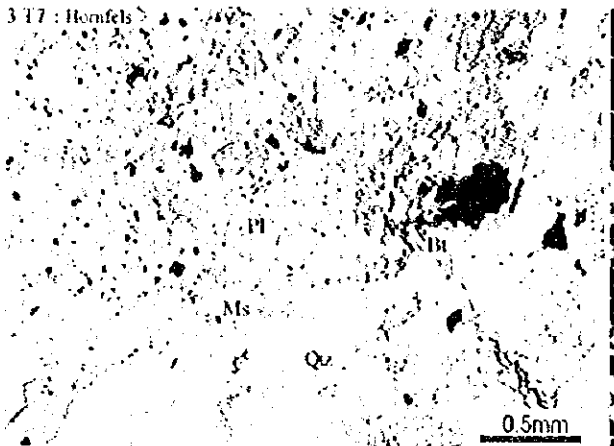
3 T4 : Syenite



3 T5 : Diorite



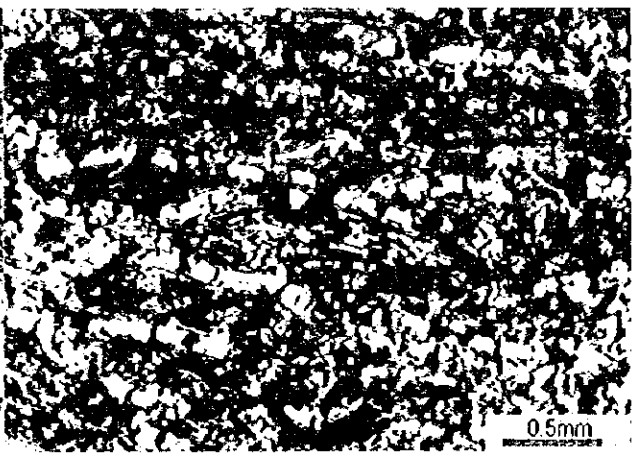
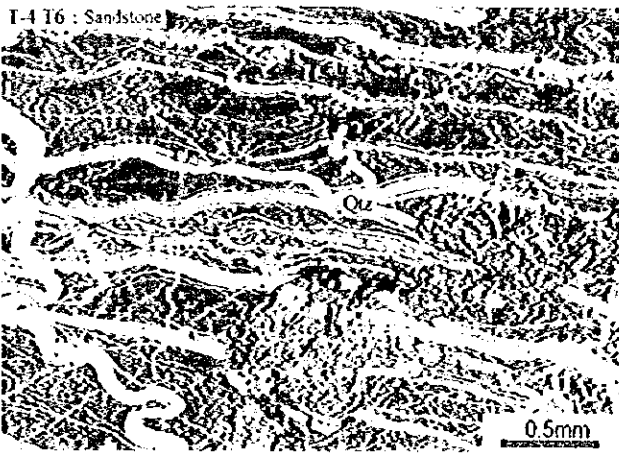
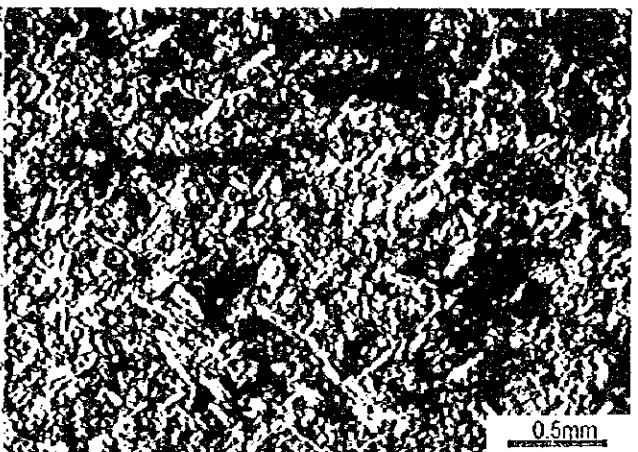
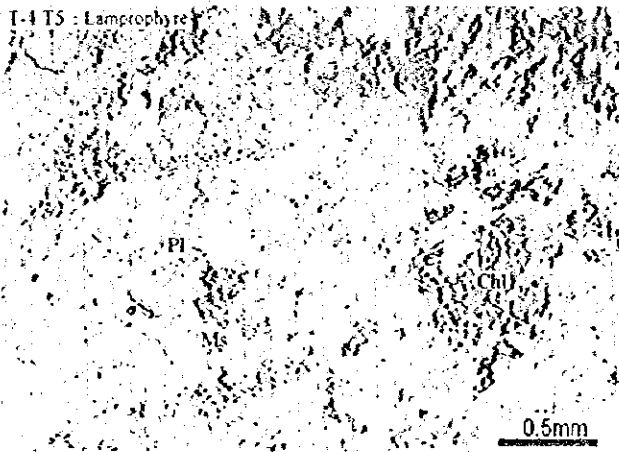
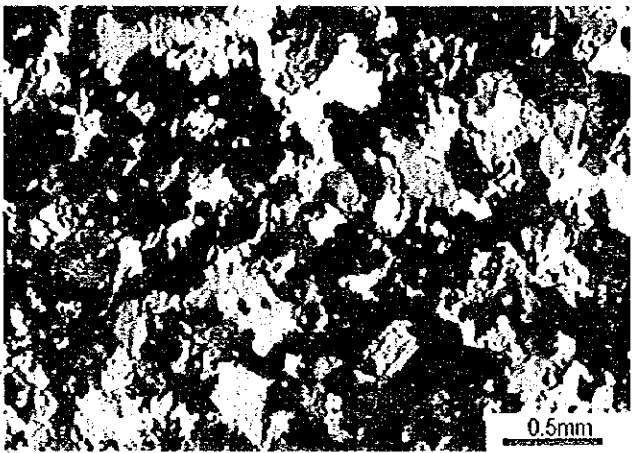
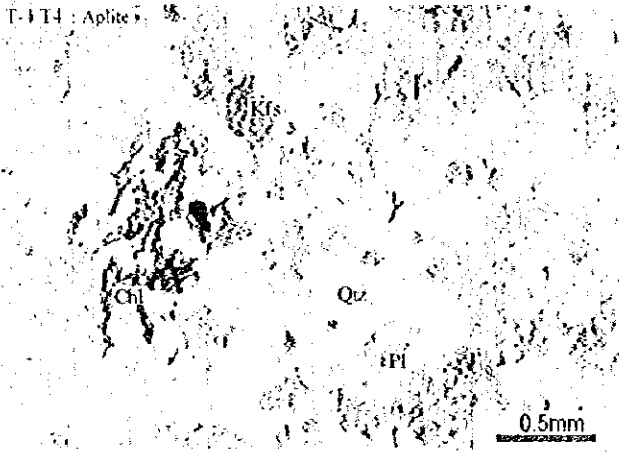
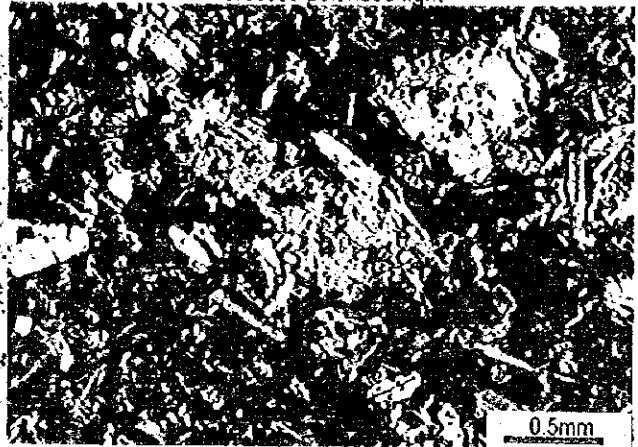
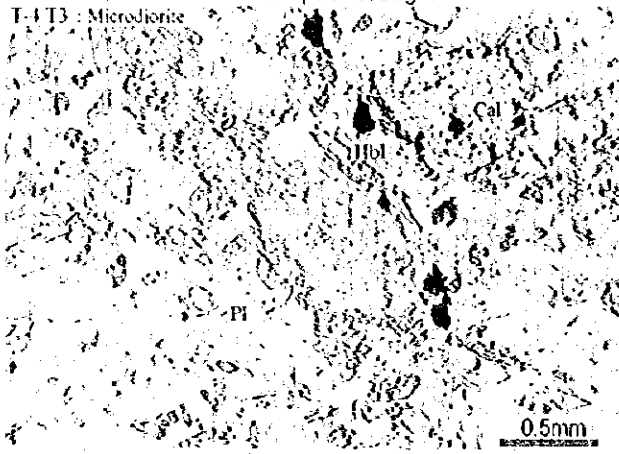
3 T7 : Hornfels



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

Plain polarized light

Crossed polarized light

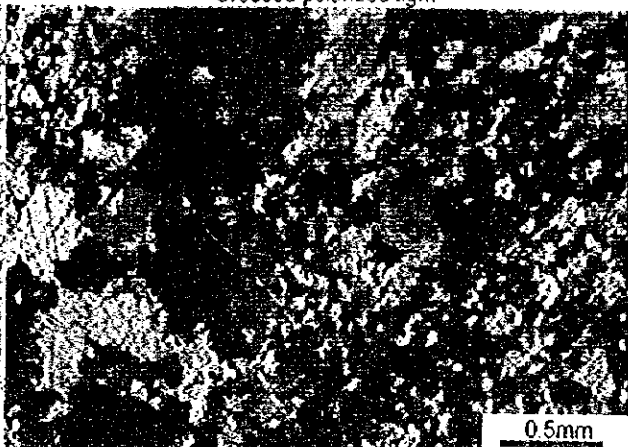
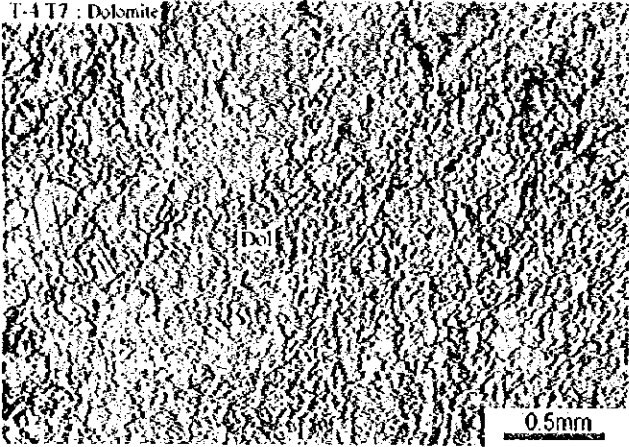


Appendix 2-3 Photomicrographs of the Thin Sections (9/17)

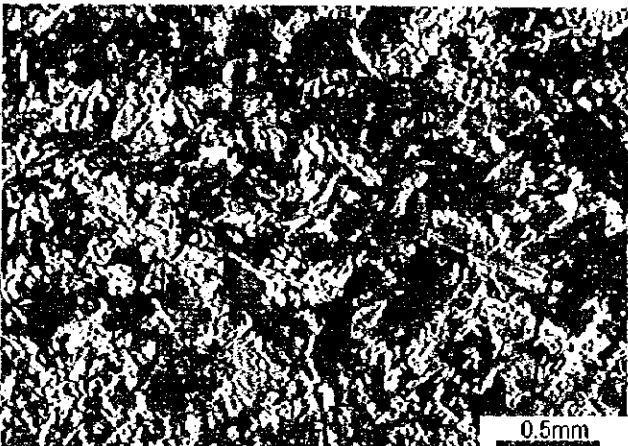
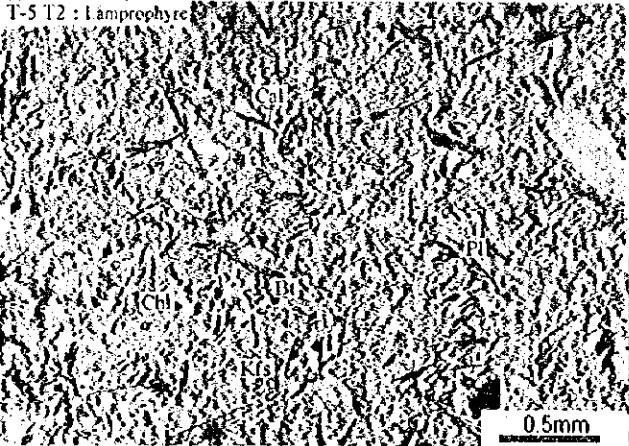
Plain polarized light

Crossed polarized light

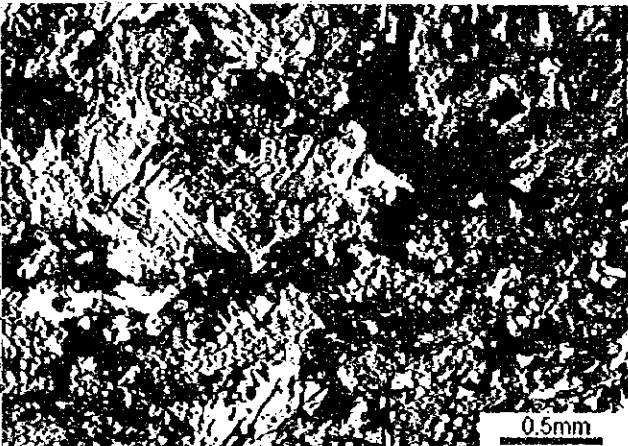
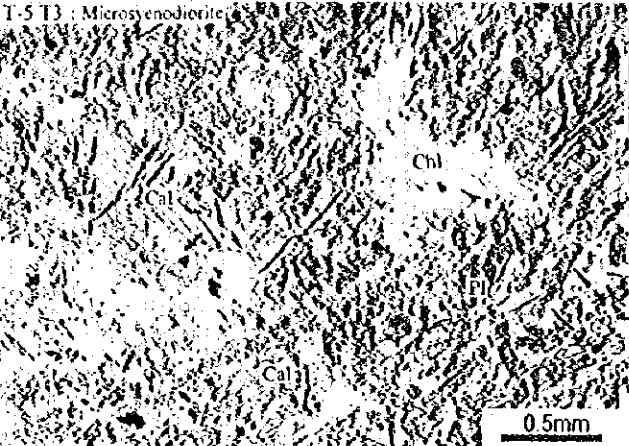
T-4 T7 : Dolomite



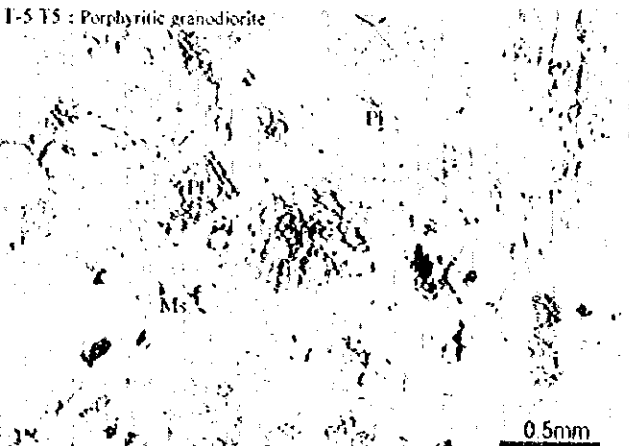
T-5 T2 : Lamprophyre



T-5 T3 : Microsyenodiorite



T-5 T5 : Porphyritic granodiorite

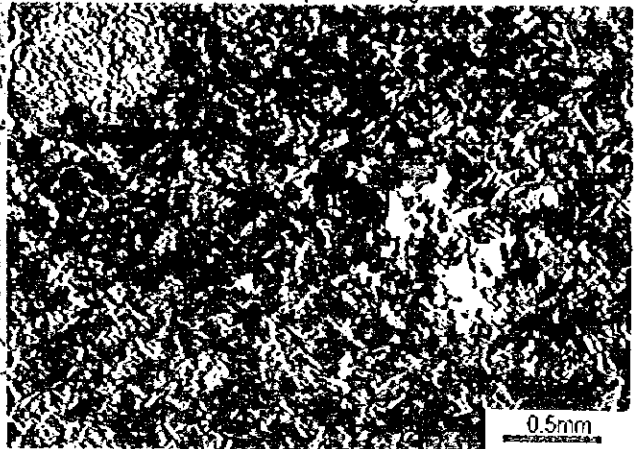
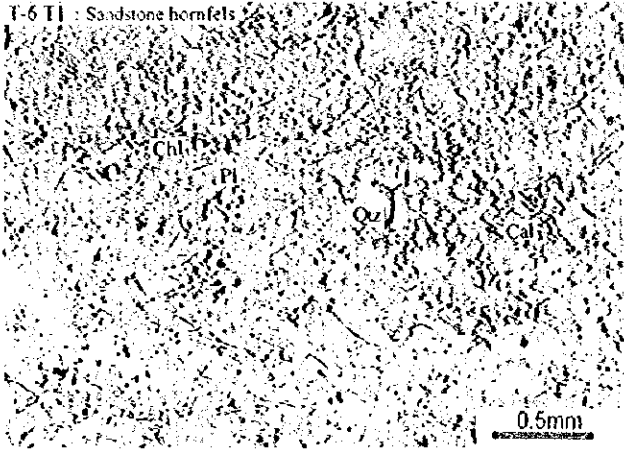


Appendix 2-3 Photomicrographs of the Thin Sections (10/17)

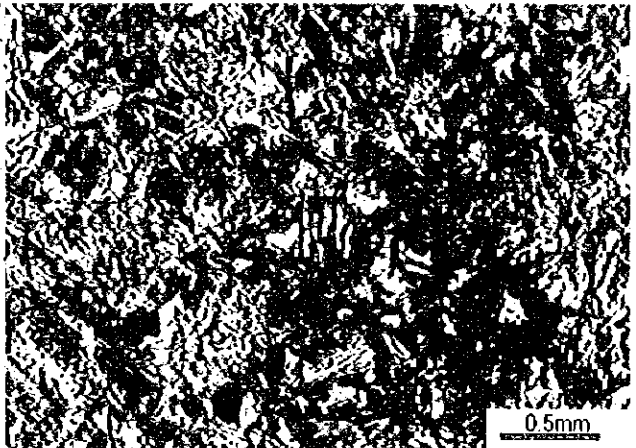
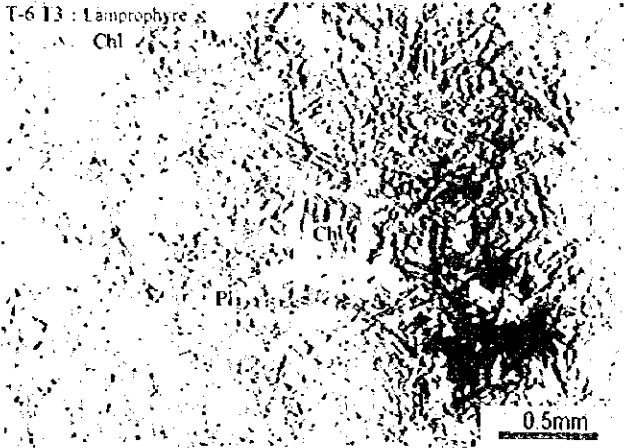
Plain polarized light

Crossed polarized light

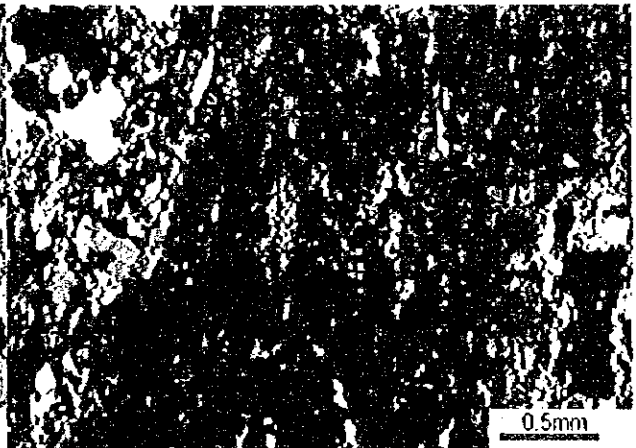
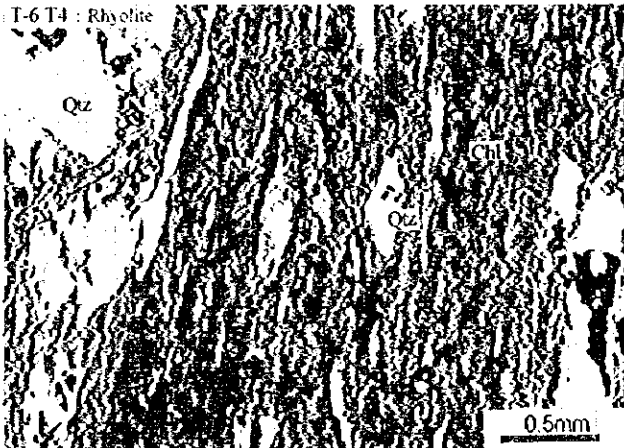
T-6 T1 : Sandstone hornfels



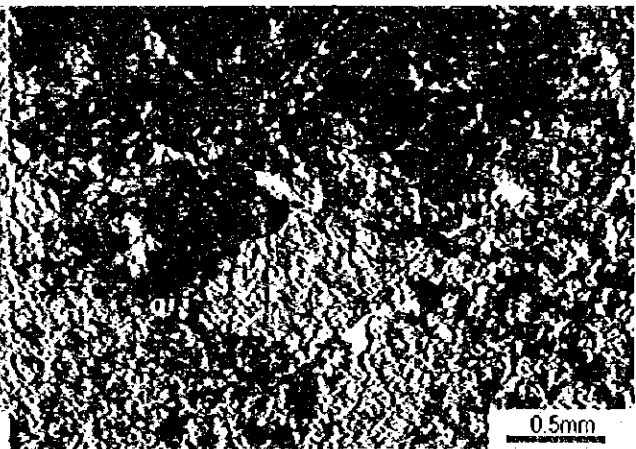
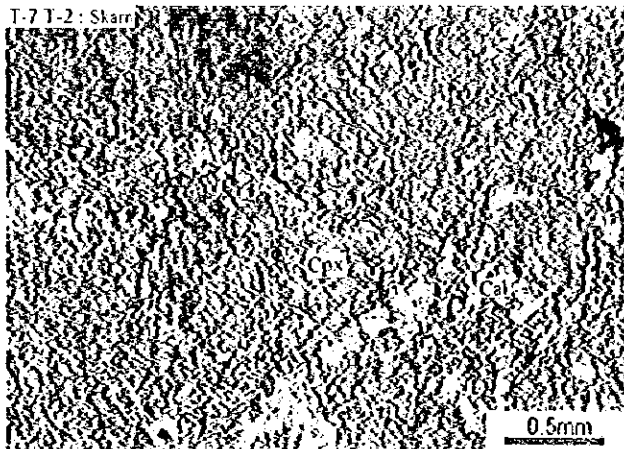
T-6 T3 : Lamprophyre



T-6 T4 : Rhyolite



T-7 T-2 : Skarn

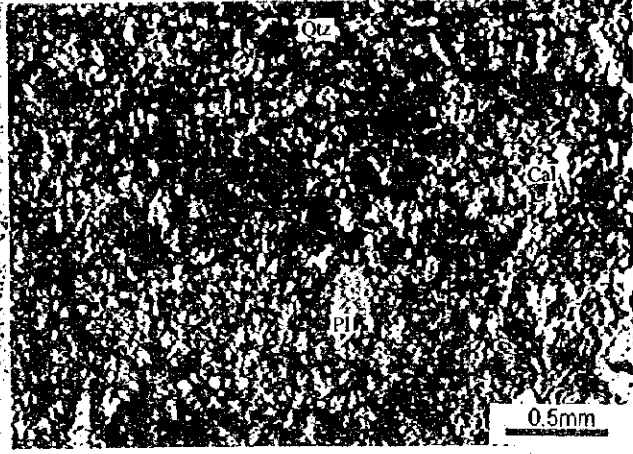
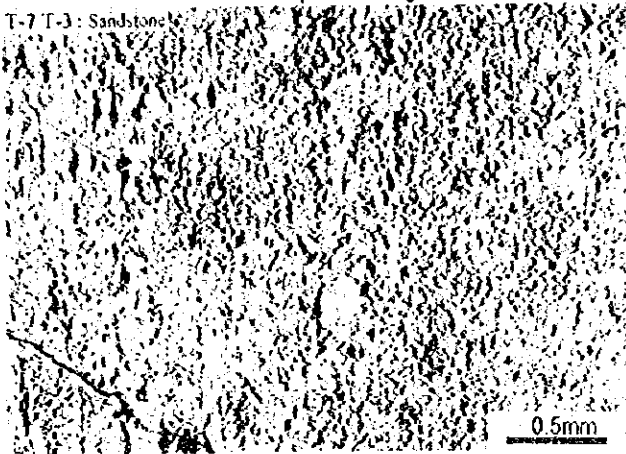


Appendix 2-3 Photomicrographs of the Thin Sections (11/17)

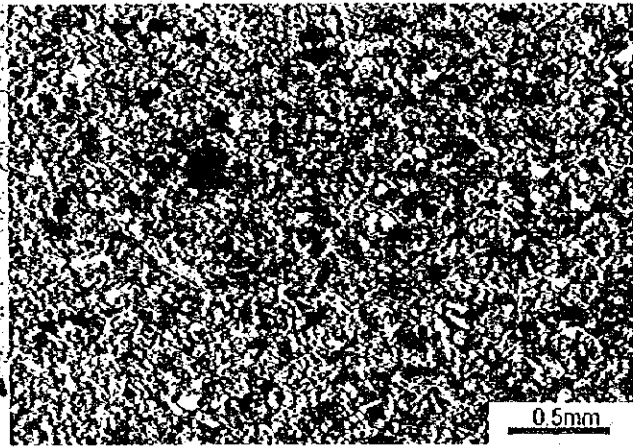
Plain polarized light

Crossed polarized light

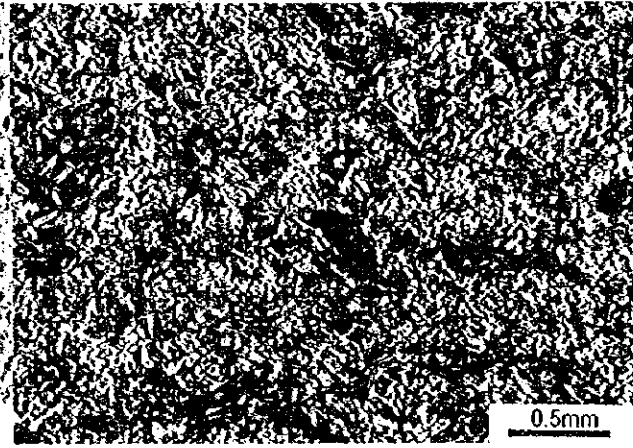
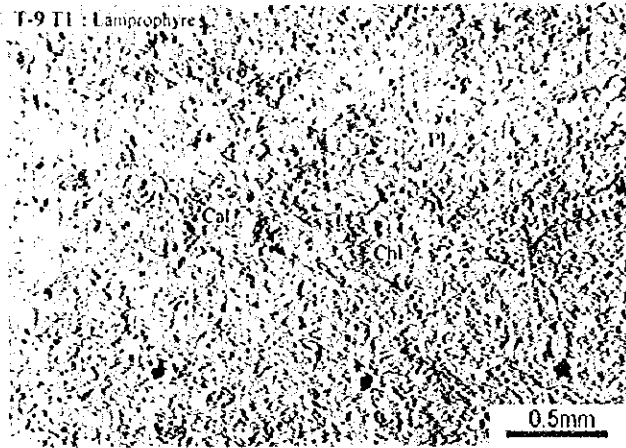
T-7 T-3 : Sandstone



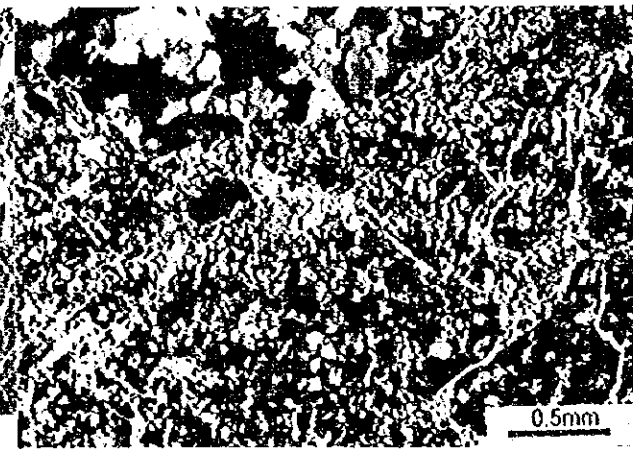
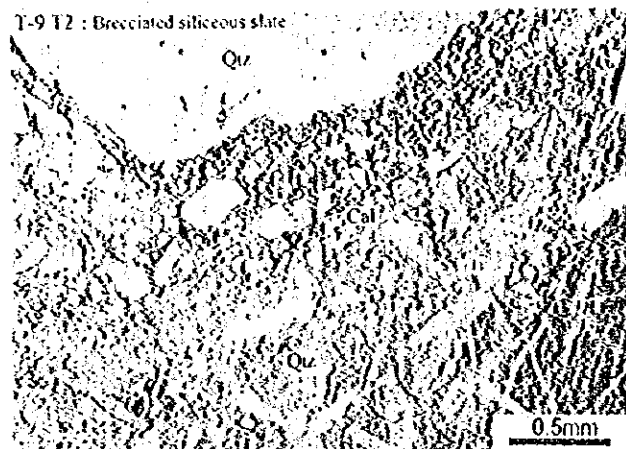
T-8 T2 : Phyllitic sandstone



T-9 T1 : Lamprophyre



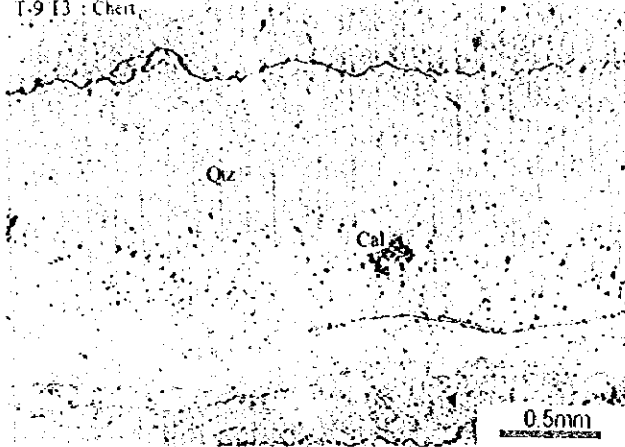
T-9 T2 : Brecciated siliceous slate



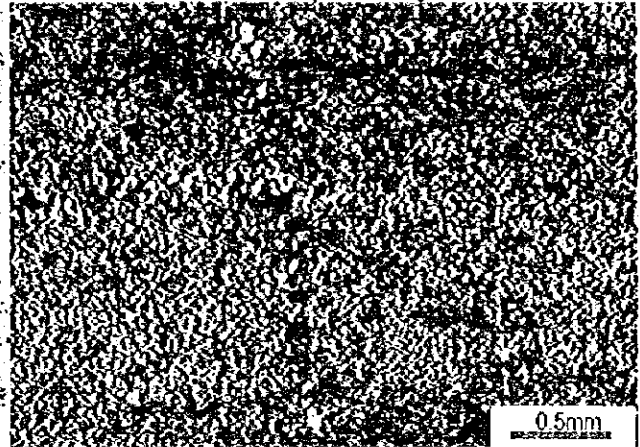
Appendix 2-3 Photomicrographs of the Thin Sections (12/17)

T-9 T3 : Chert

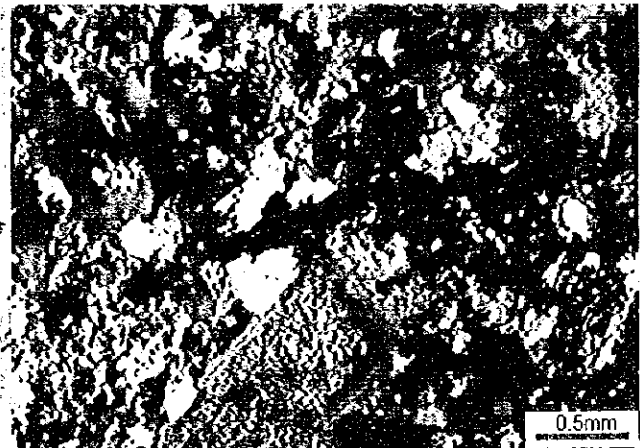
Plain polarized light



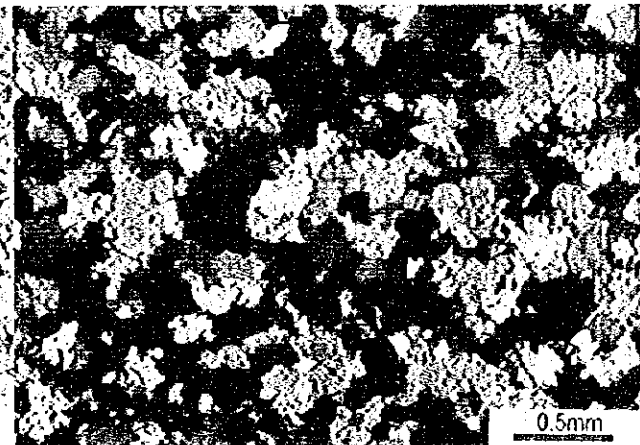
Crossed polarized light



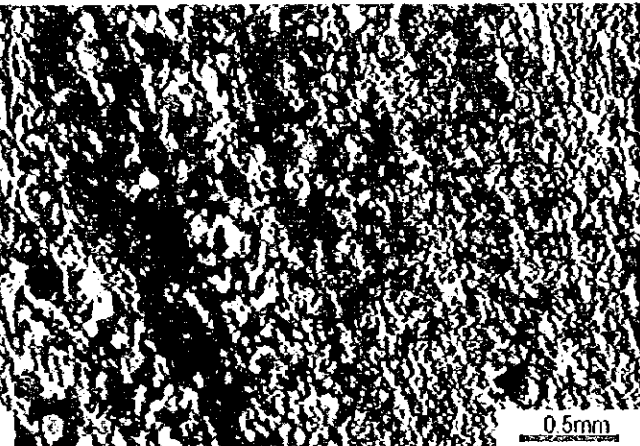
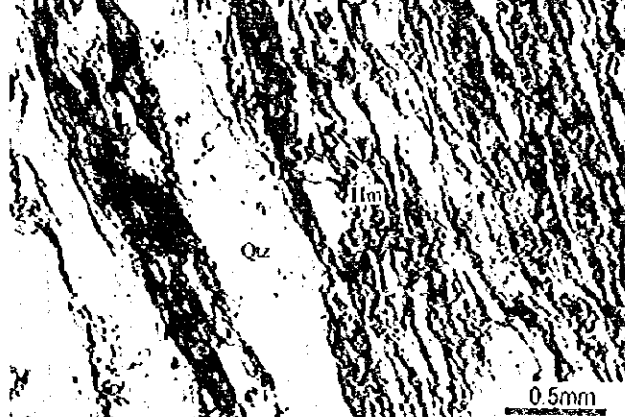
T-10 T1 : Syenodiorite



T-10 T3 : Dolomite



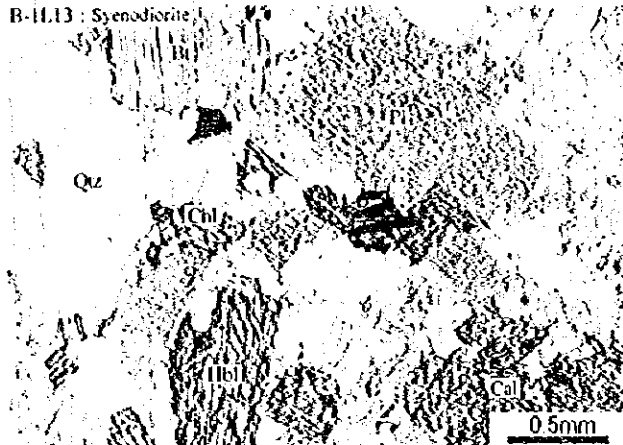
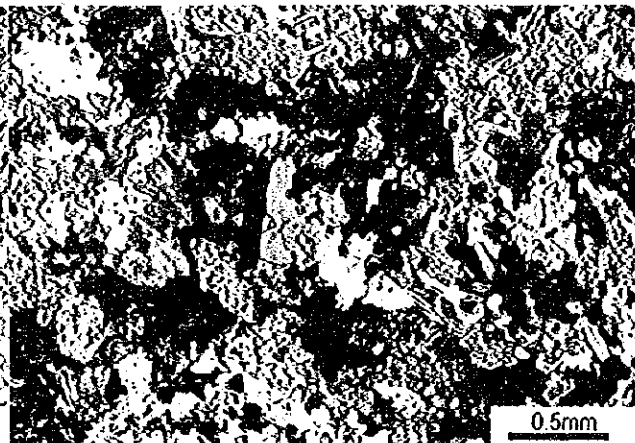
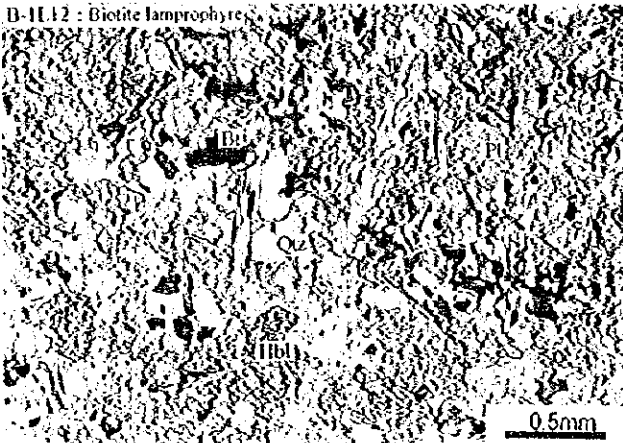
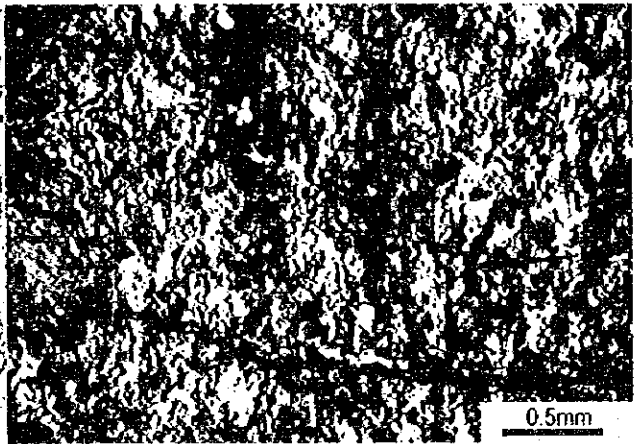
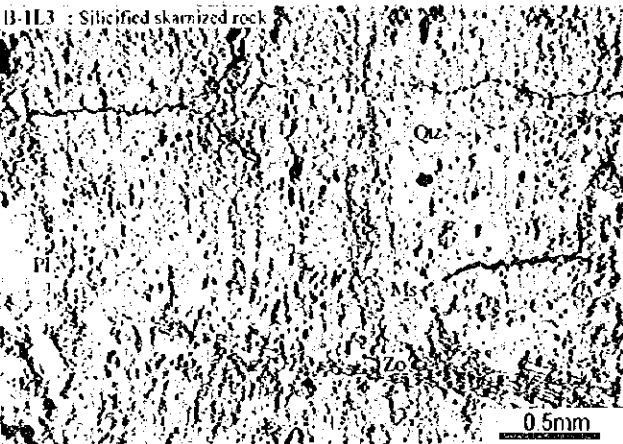
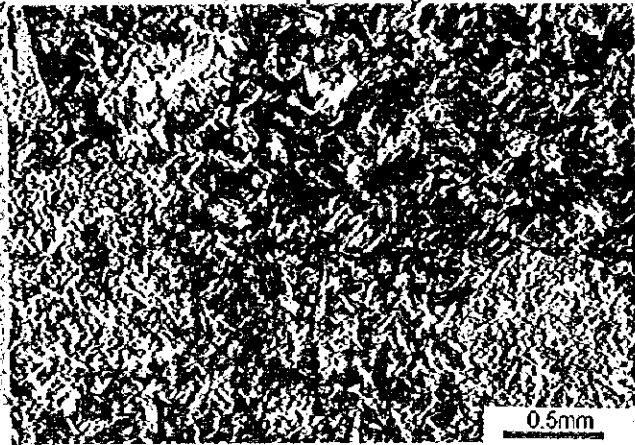
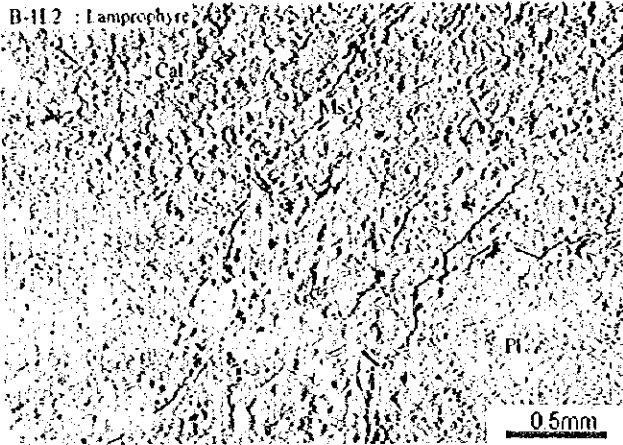
T-10 T4 : Sandstone



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

Plain polarized light

Crossed polarized light

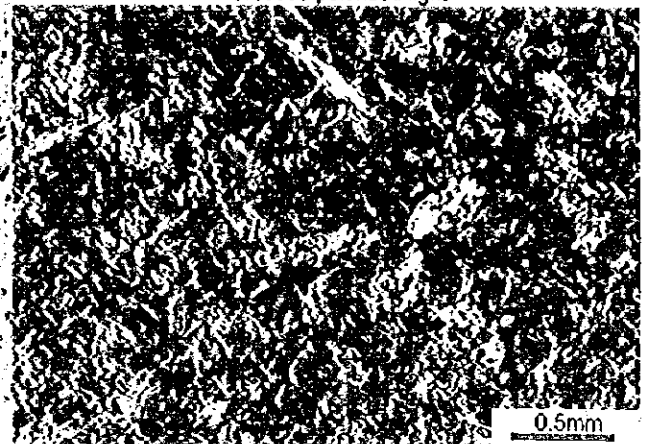
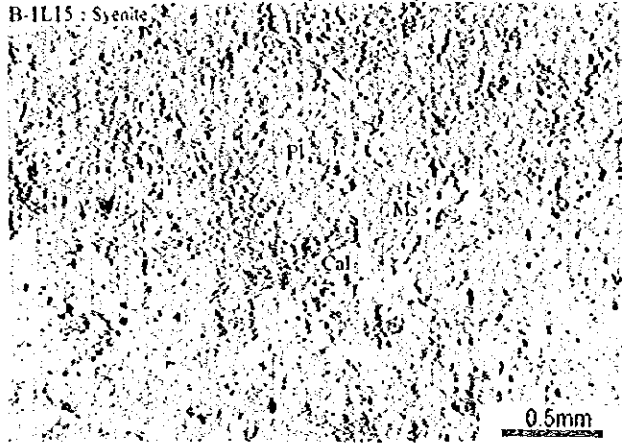


Appendix 2-3 Photomicrographs of the Thin Sections (14/17)

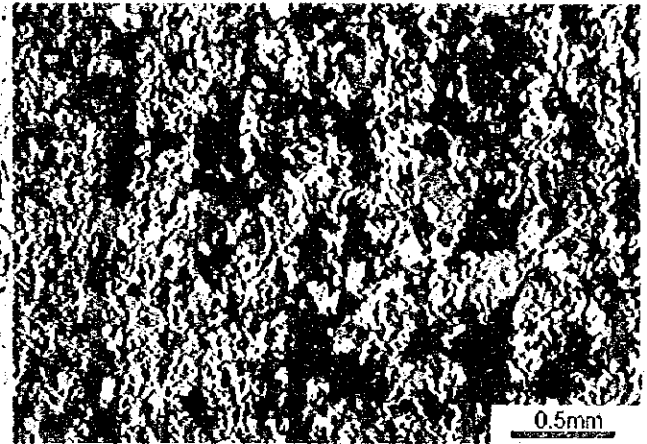
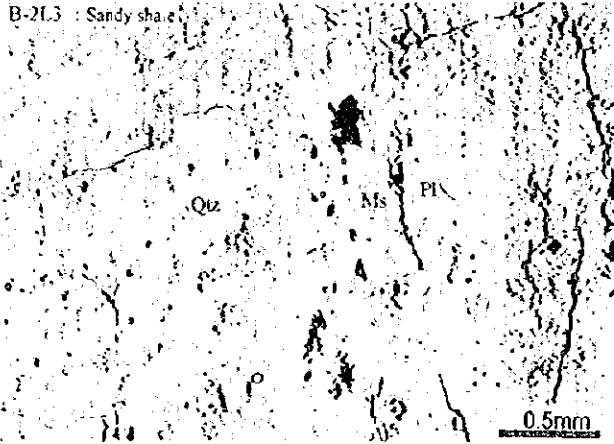
Plain polarized light

Crossed polarized light

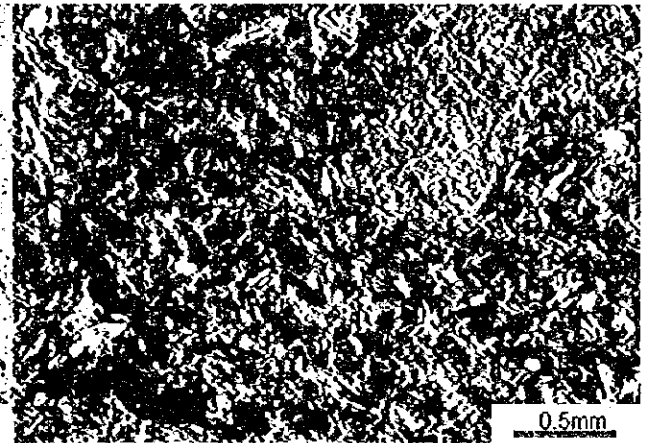
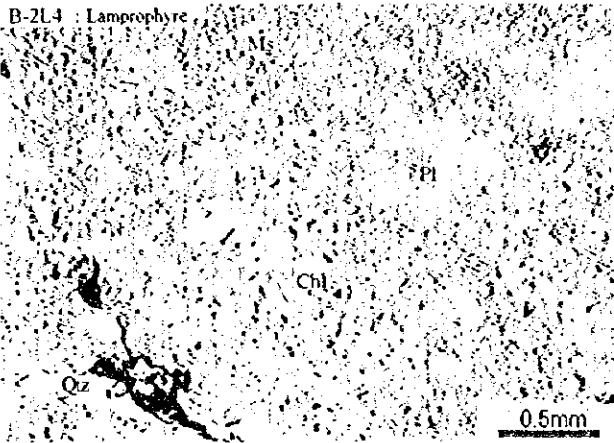
B-1L15 : Syenite



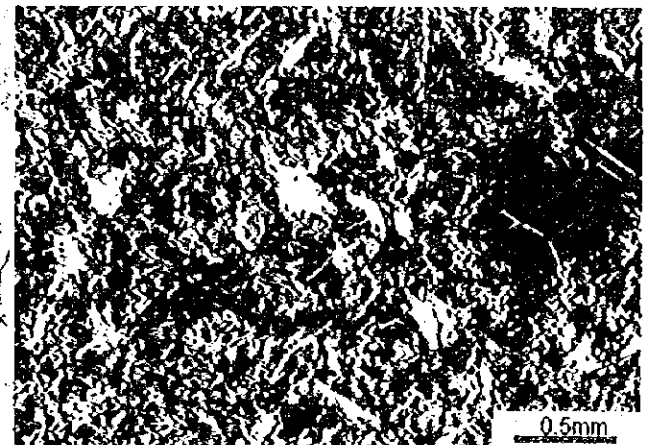
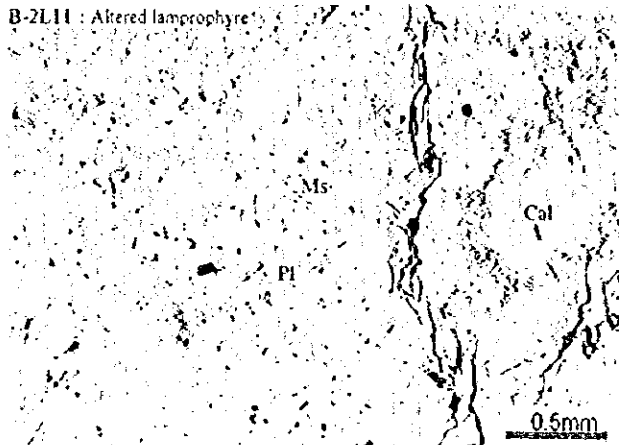
B-2L3 : Sandy shale



B-2L4 : Lamprophyre



B-2L11 : Altered lamprophyre

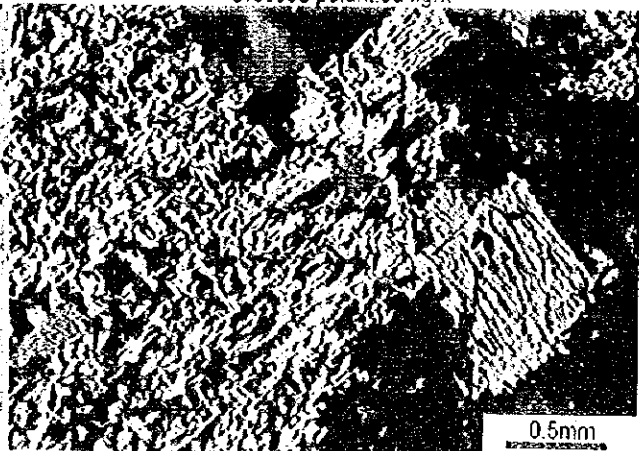
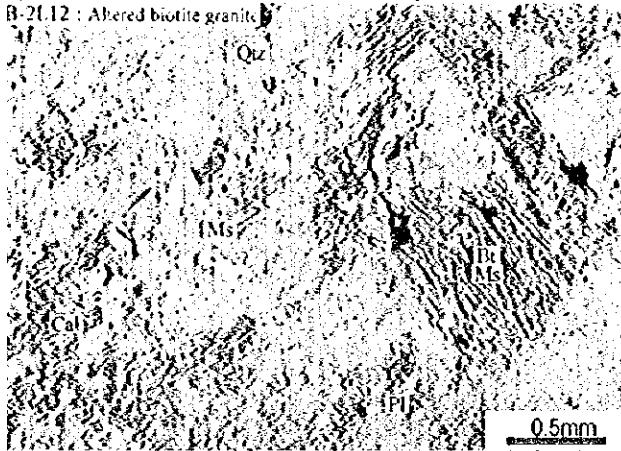


Appendix 2-3 Photomicrographs of the Thin Sections (15/17)

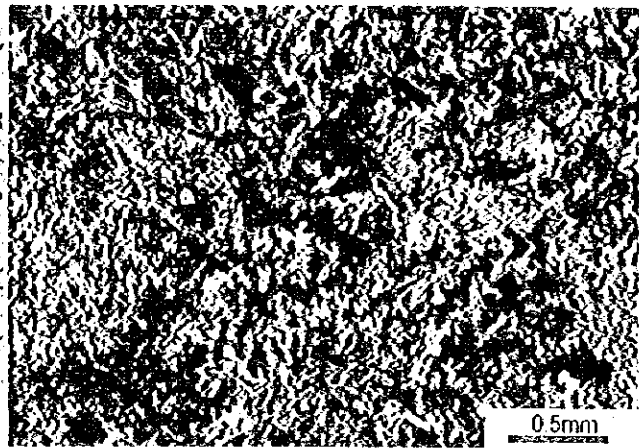
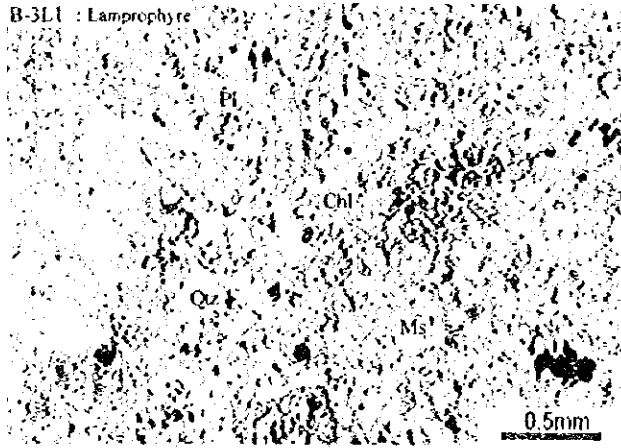
Plain polarized light

Crossed polarized light

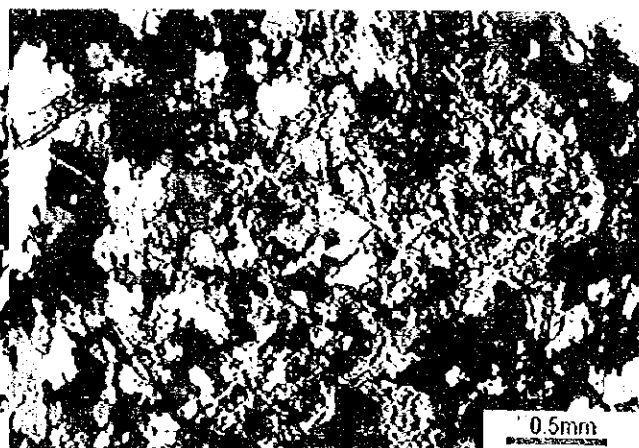
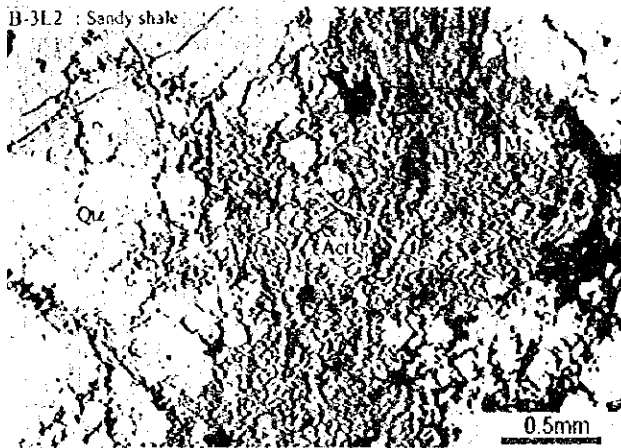
B-21.12 : Altered biotite granite



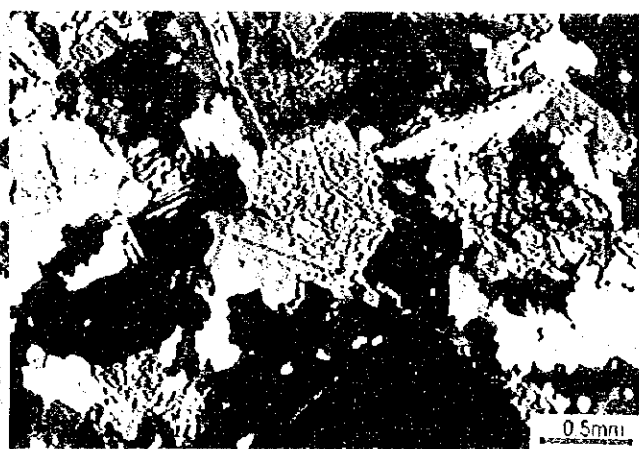
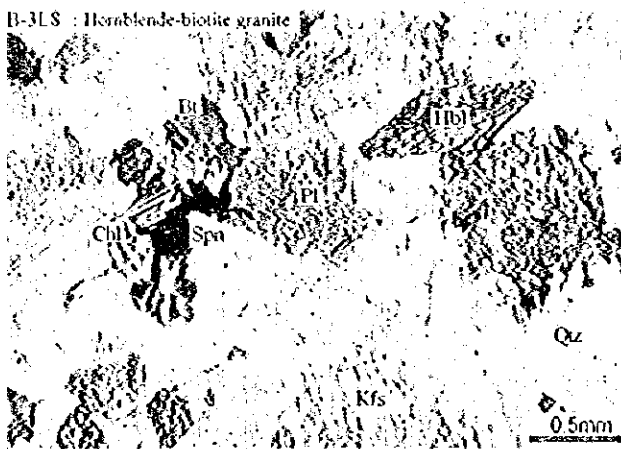
B-3L1 : Lamprophyre



B-3L2 : Sandy shale



B-3LS : Hornblende-biotite granite

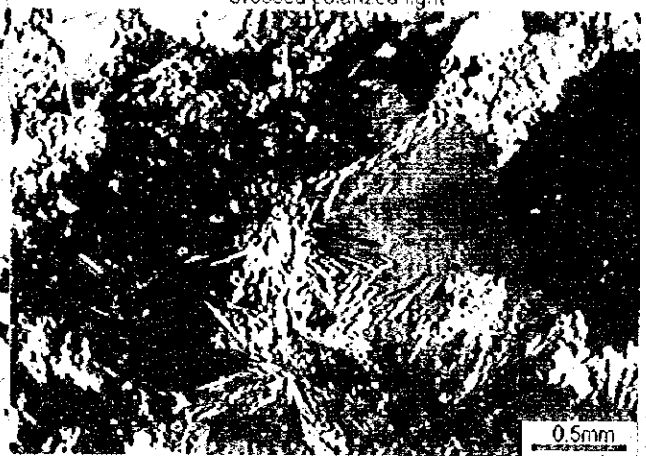
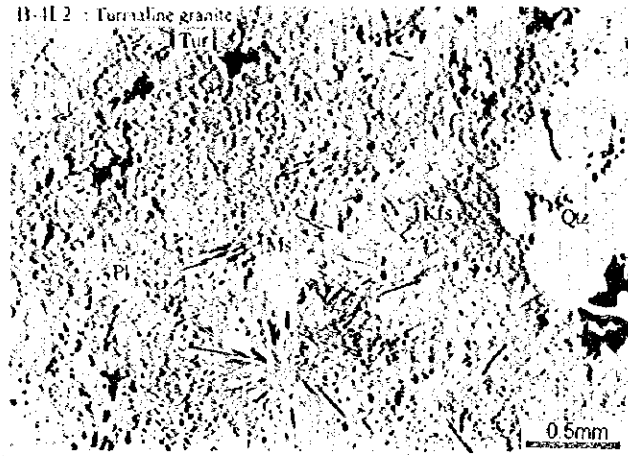


Appendix 2-3 Photomicrographs of the Thin Sections (16/17)

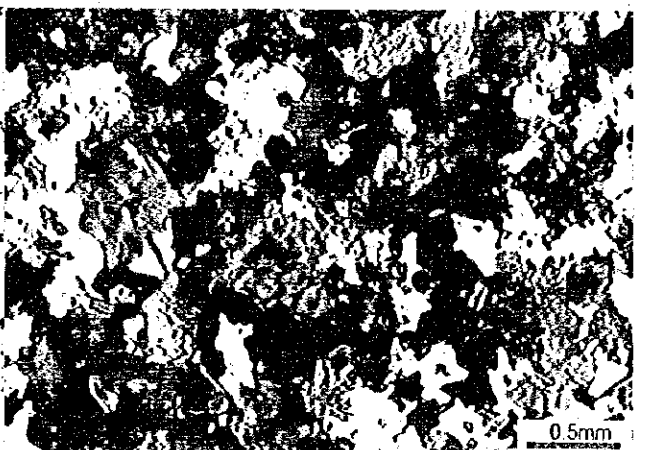
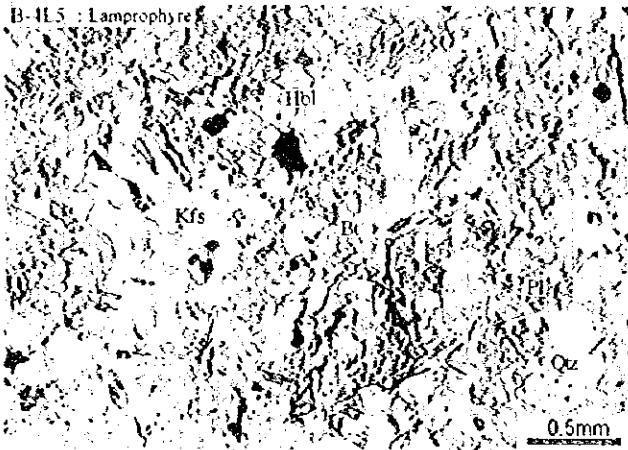
Plain polarized light

Crossed polarized light

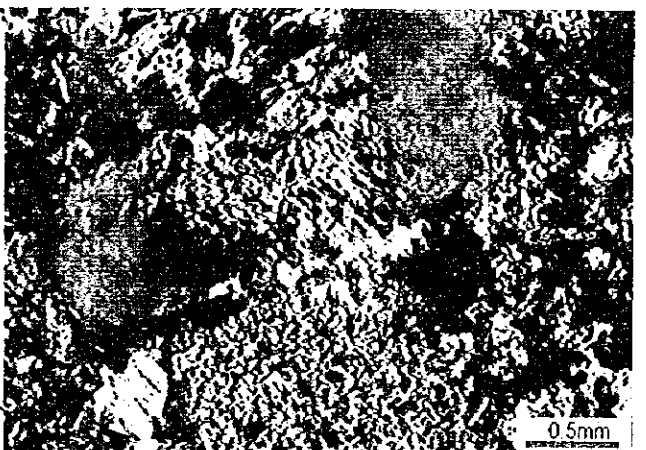
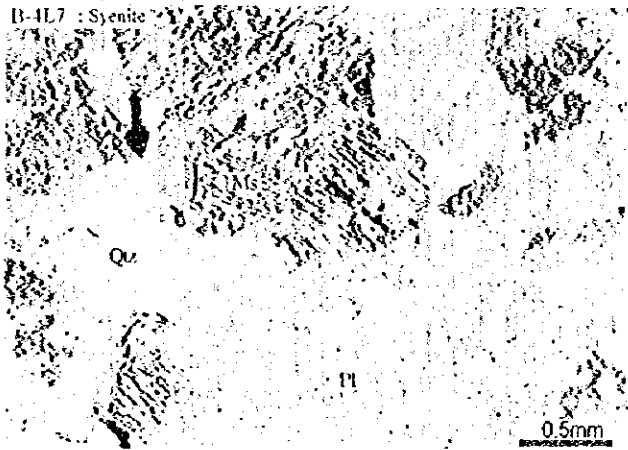
B-4L2 : Turritaline granite



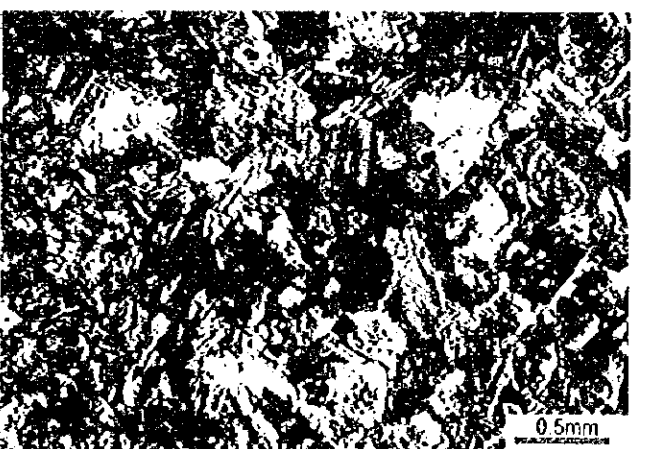
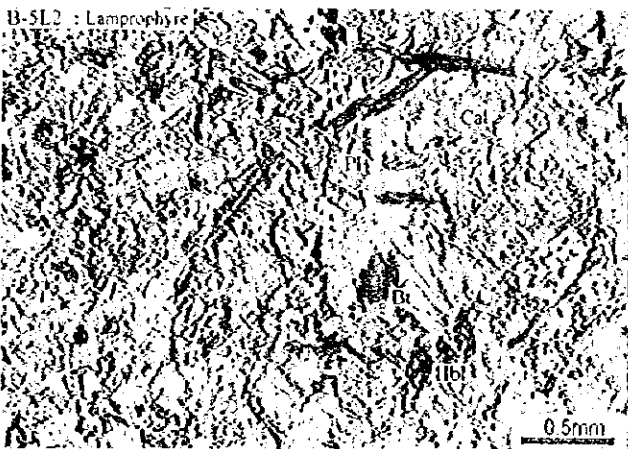
B-4L5 : Lamprophyre



B-4L7 : Syenite



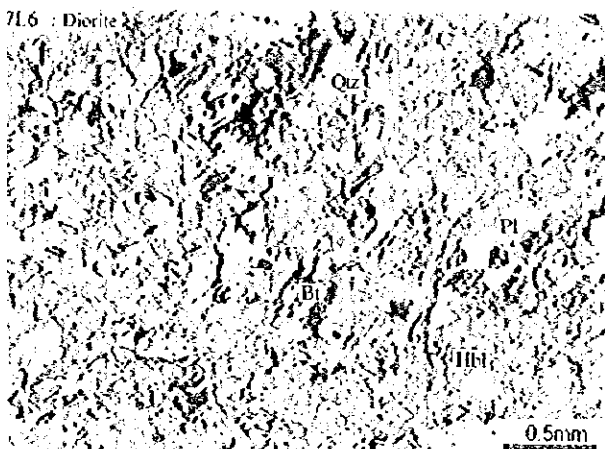
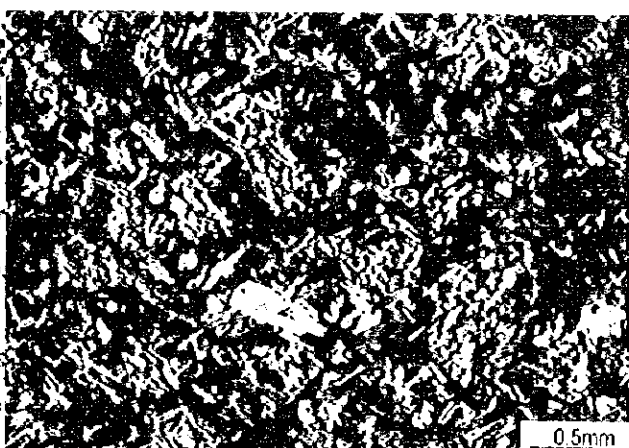
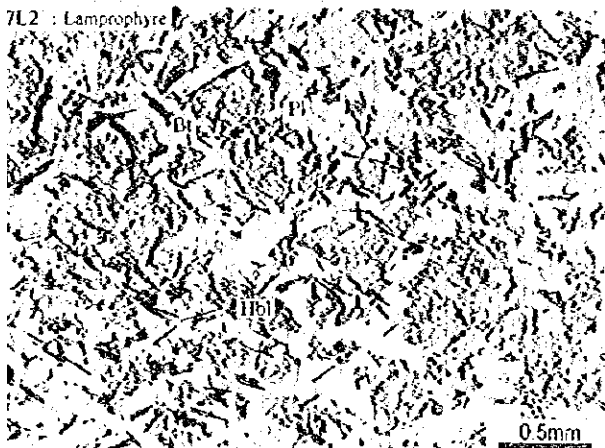
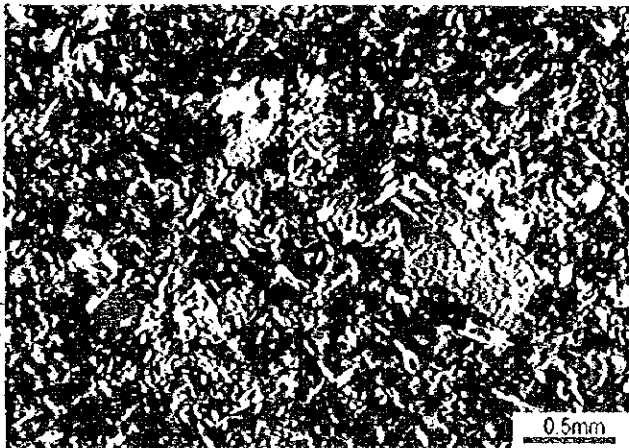
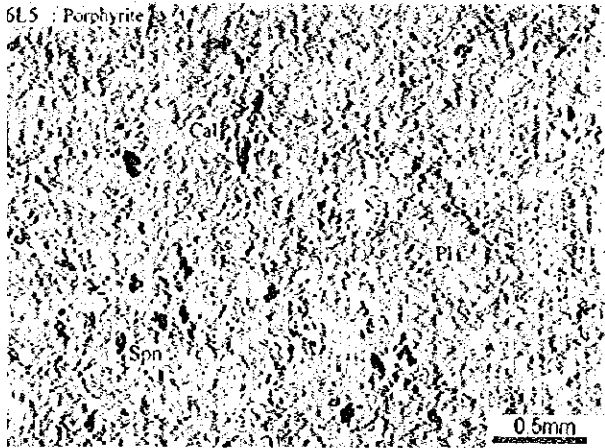
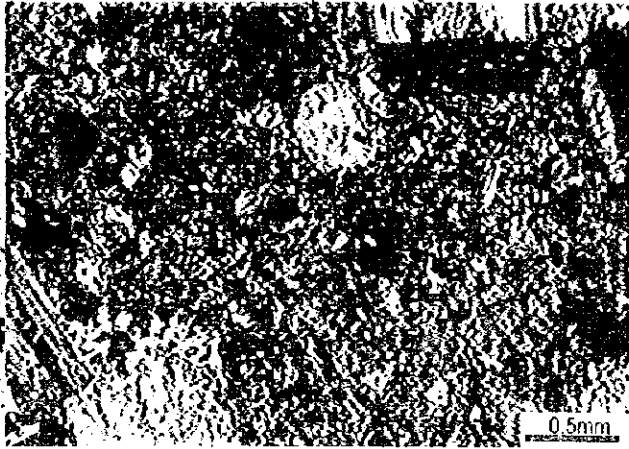
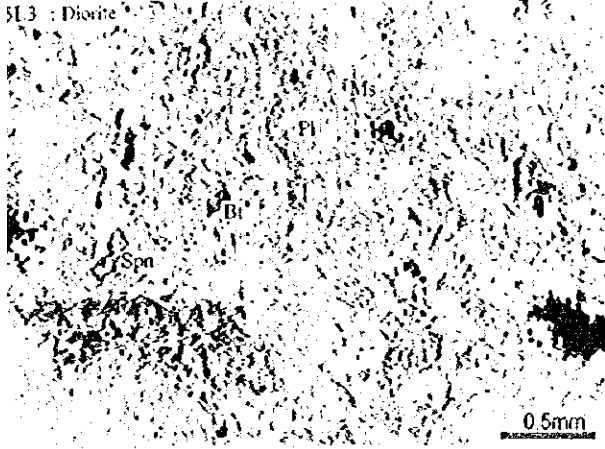
B-5L2 : Lamprophyre

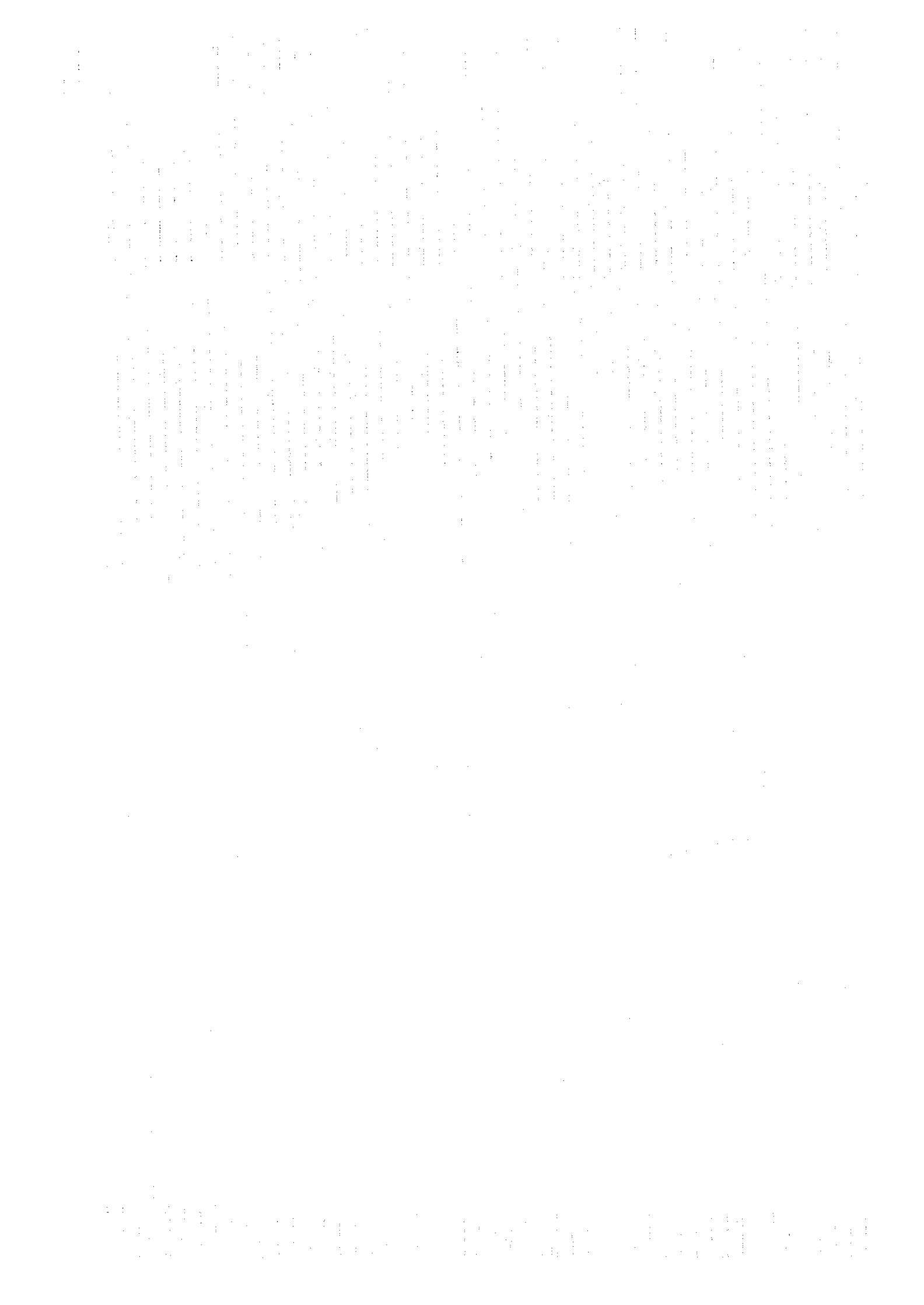


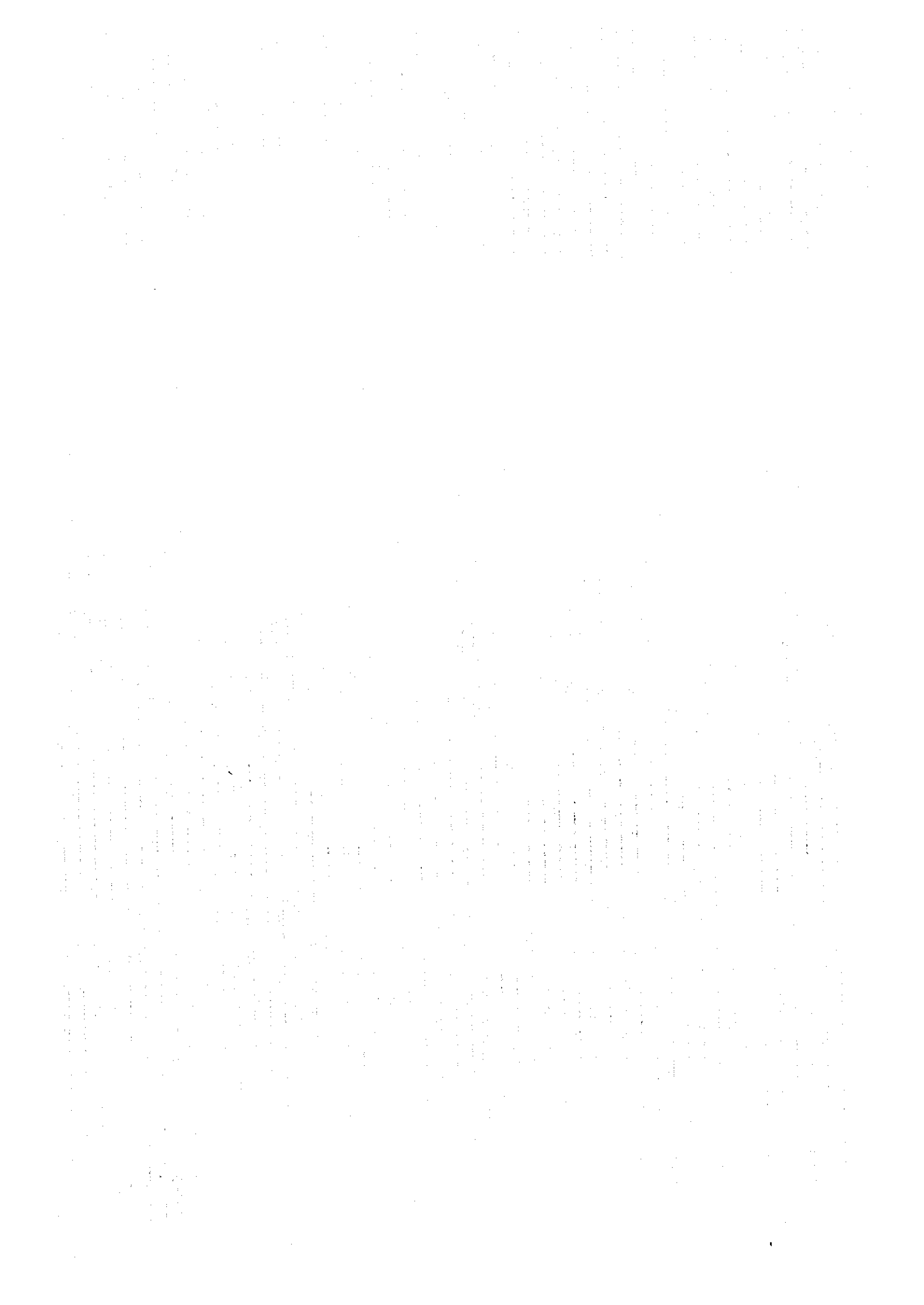
Appendix 2-3 Photomicrographs of the Thin Sections (17/17)

Plain polarized light

Crossed polarized light







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

Sample No.	Locality	Field name	Minerals	Pyrrhotite	Chalcopyrite	Sphalerite	Galena	Arsenopyrite	Pyrite	Native bismuth	Bismuthinite	Aikinite	Scheelite	Native gold	Graphite	Marcasite	Chalcocite	Covellite	Goethite	Lepidochrochite	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)

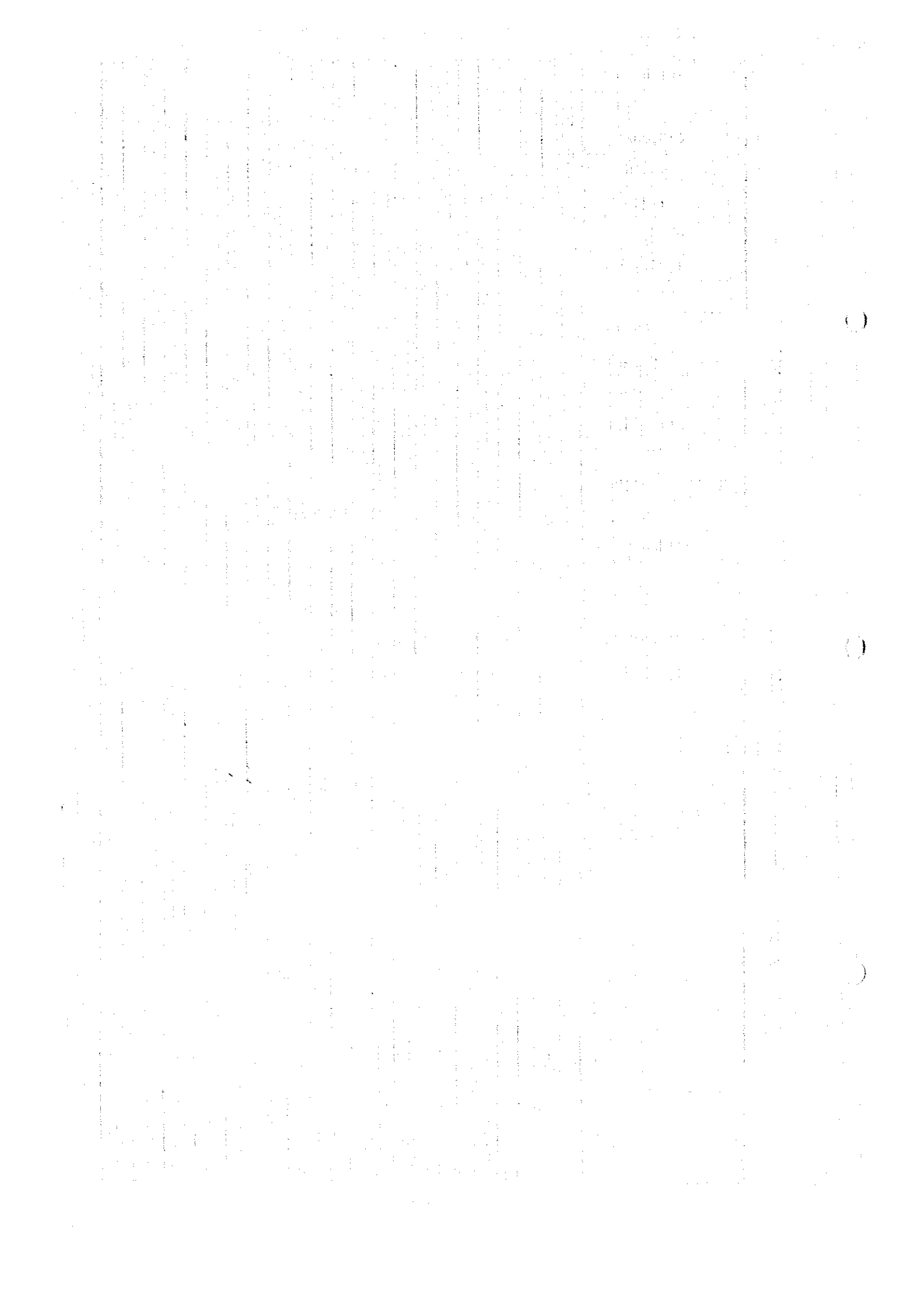
Sample No.	Locality	Field name	Minerals	Pyrrhotite	Chalcopyrite	Sphalerite	Galena	Arsenopyrite	Pyrite	Native bismuth	Bismuthinite	Aikinite	Scheelite	Native gold	Graphite	Marcasite	Chalcoite	Covellite	Goethite	Lepidochrochite	Magnetite	Rutile	Fe sulfate	
23T-2 P5	T-2 240.5m	brownish grey silicified rock																	⊙	○				
24T-2 P6	T-2 245.5m	reddish brown grey silicified rock												○					△	○				
25T-2 P7	T-2 256.9m	brownish chalcedonic rock																	△					
26T-3 P1	T-3 192.2m	deep green-reddish brown silicified rock																	○	△				
27T-3 P2	T-3 234m	black silicified rock																	○	△				
28T-3 P3	T-3 319m	black silicified-skarnized rock																	○	○				
29T-3 P4	T-3 380m	black brecciated siliceous slate																	△					
30T-4 P1	T-4 204.5m	gossan with grey quartz																	△					
31T-4 P3	T-4 364m	reddish brown sandstone hornfels																	△					
32T-4 P5	T-4 171.3m	grey-brown silicified rock																	○					
33T-4 P6	T-4 171.5m	grey-brown silicified rock																	⊙	○				
34T-5 P1	T-5 152.5m	brown silicified rock																	⊙					
35T-5 P2	T-5 339.5m	white silicified-skarnized rock																	△					
36T-6 P1	T-6 644.5m	dark reddish brown oxidized ore																	⊙	○				△
37T-6 P2	T-6 690m	white-brown quartz																	⊙	○				
38T-6 P4	T-6 214.5m	reddish brown silicified gossan																	⊙					
39T-7 P1	T-7 290m	reddish brown altered sandstone																	⊙					
40T-7 P2	T-7 372.7m	dark brown-grey chalcedonic rock																	○	○				
41T-7 P3	T-7 376m	dark brown-grey chalcedonic rock																	○	○				
42T-7 P4	T-7 550.5m	reddish brown chalcedonic rock																	⊙	○				
43T-8 P1	T-8 316.6m	grey-brown quartz																	○	○				
44T-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	Lepidochrochite	Magnetite	Rutile	Fe sulfate
45T-8 P4	T-8 444m	brown silicified gossan																		○			
46T-8 P5	T-8 572m	reddish brown brecciated silicified rock																	◎	◎			
47T-9 P2	T-9 460.8m	reddish brown silicified vein																	◎	◎			
48T-10 P1	T-10 410.5m	grey quartz		△															◎	◎			
49T-10 P2	T-10 412m	grey silicified rock		○															◎	◎			
50T-10 P3	T-10 817m	grey quartz		△															◎	◎			
51B-1L 3	MJUB-1 37.2m	silicified skarnized rock		○	△			○	◎										○				
52B-1L 6	MJUB-1 68.5m	sulphide vein in skarn		○				○	○							◎							
53B-1L 8	MJUB-1 84.3m	sulphide vein in skarn		△	○			○	○							◎							
54B-1L 10	MJUB-1 86.5m	greenish dark grey skarn		○	○											◎			△				
55B-2L 2	MJUB-2 31.1m	vein quartz in green skarn		○					◎										○				
56B-2L 7	MJUB-2 94.1m	sulphide vein in skarn		○	△			○	◎														
57B-2L 8	MJUB-2 103.9m	greenish dark grey skarn		○	◎			○	△														
58B-2L 12	MJUB-2 166.8m	sulphide vein with altered diorite		△	○	◎	△	◎	◎														
59B-3L 2	MJUB-3 38.8m	dark grey skarn			△				○											○			
60B-3L 5	MJUB-3 81.6m	sulphide vein in limestone						◎	◎											○			
61B-4L 3	MJUB-4 45.7m	grey silicified skarnized rock		△				◎	◎														
62B-4L 4	MJUB-4 80.5m	green skarn						◎	◎														
63B-5L 4	MJUB-5 108.1m	grey and white altered diorite						◎	◎														
64B-6L 4	MJUB-6 64.3m	green and white silicified skarnized rock		○	△				◎														
65B-7L 1	MJUB-7 10.0m	brown chalcedony																					◎
66B-7L 3	MJUB-7 50.0m	dark greenish grey skarn		○																			
67B-7L 5	MJUB-7 66.5m	grey skarn with vein quartz		○				○															

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

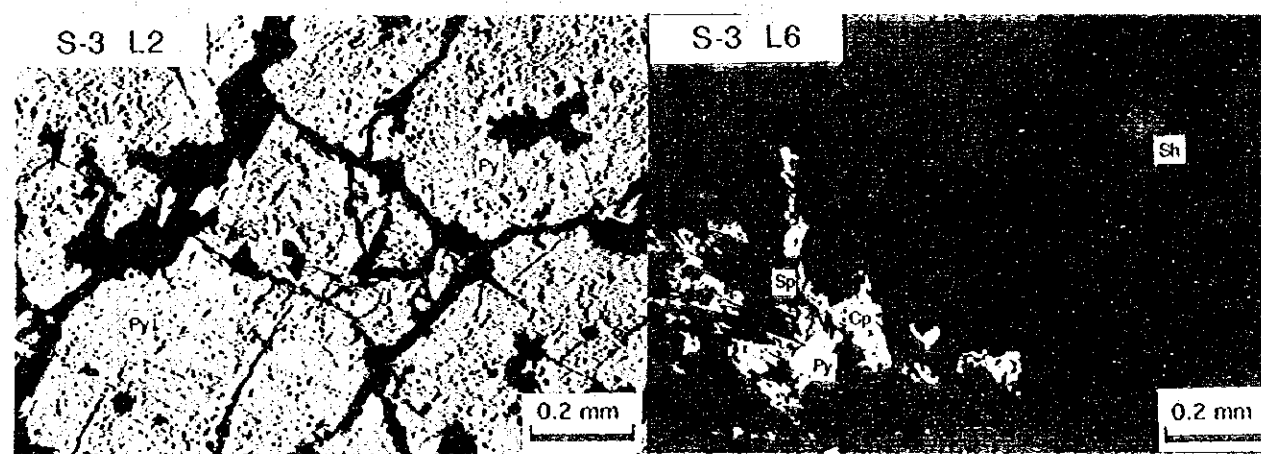
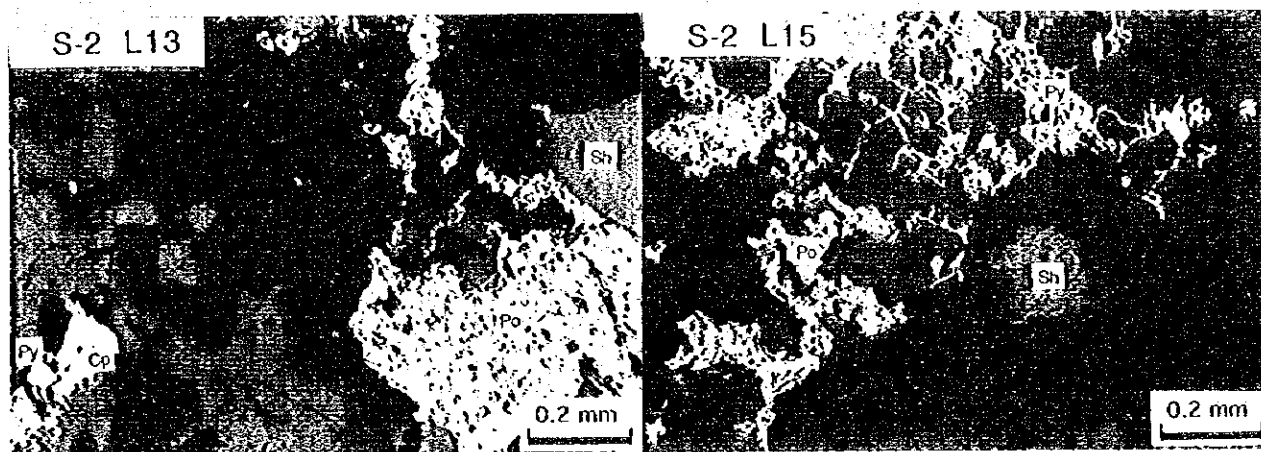
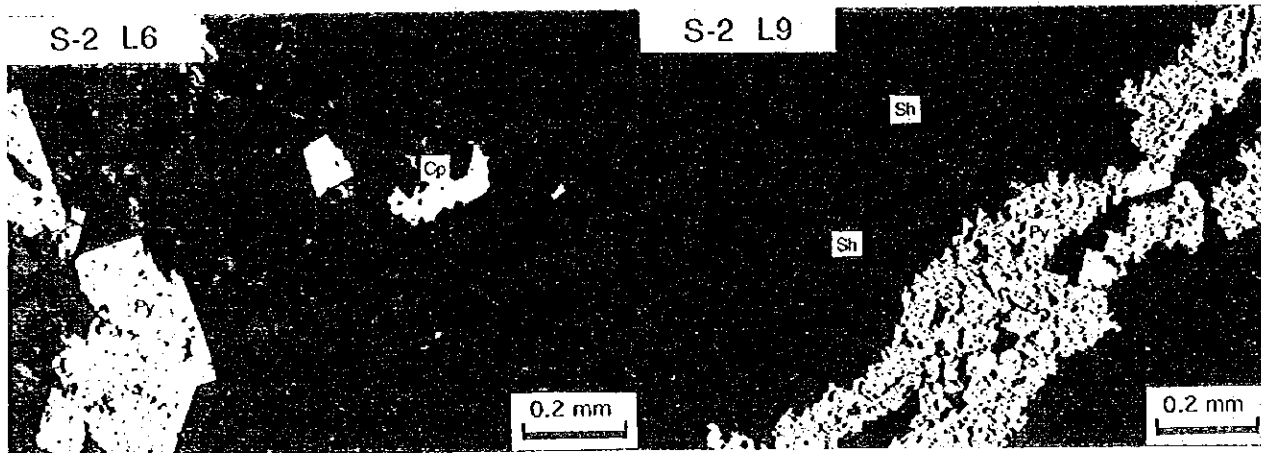
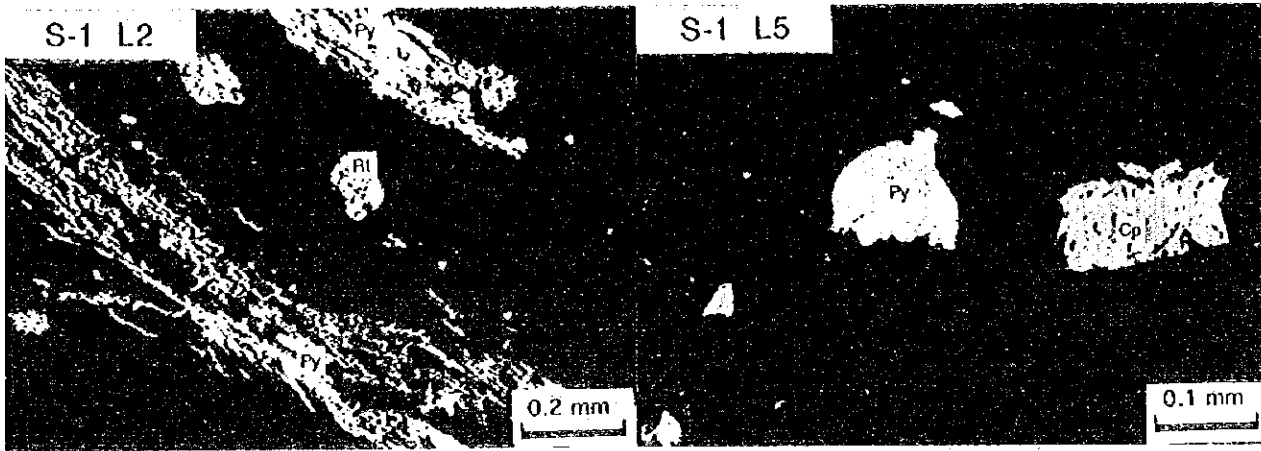


Appendix 2-5 Photomicrographs of the Polished Sections

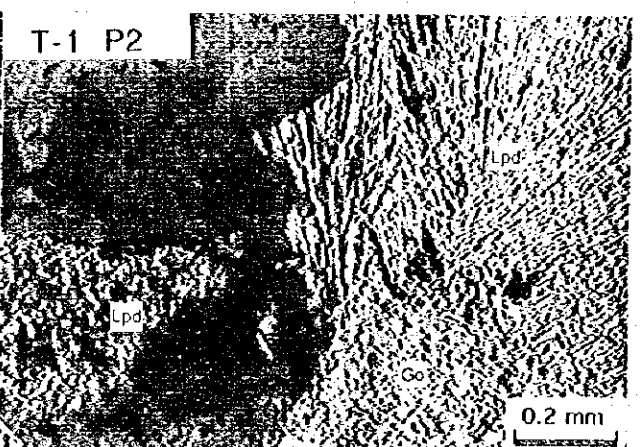
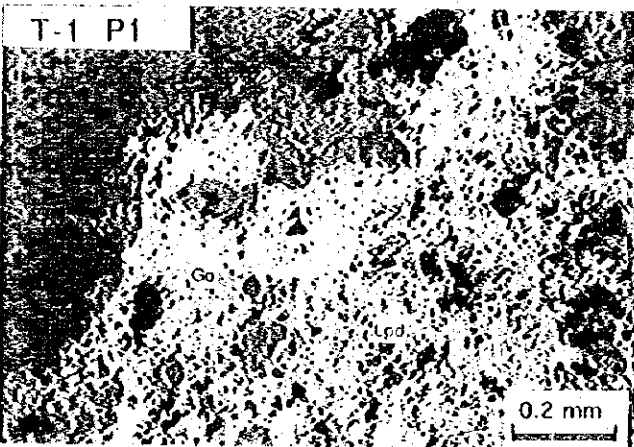
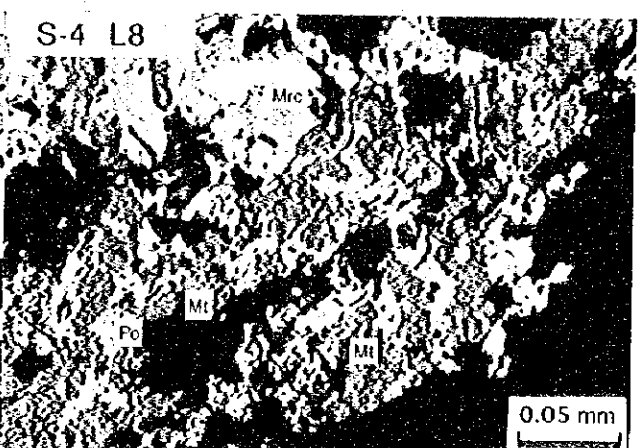
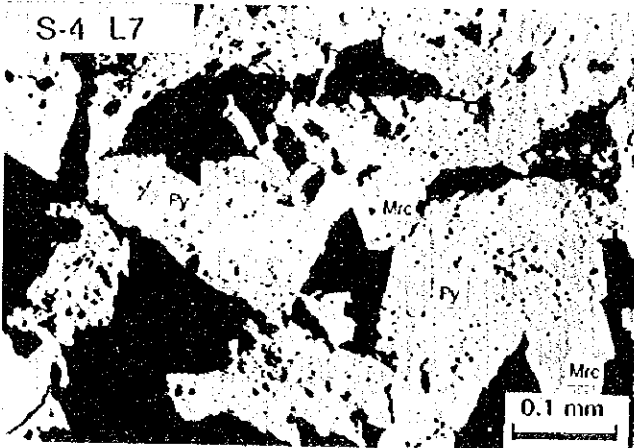
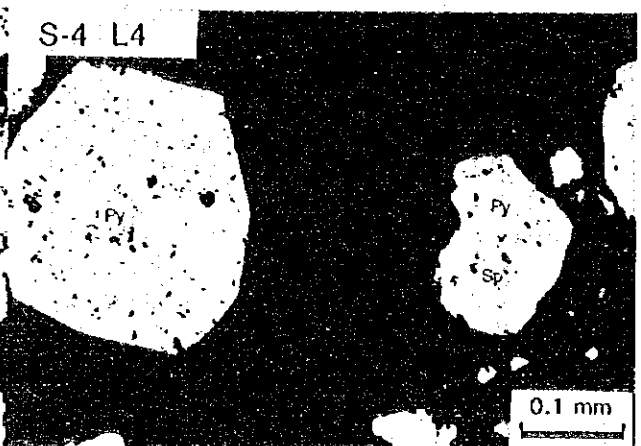
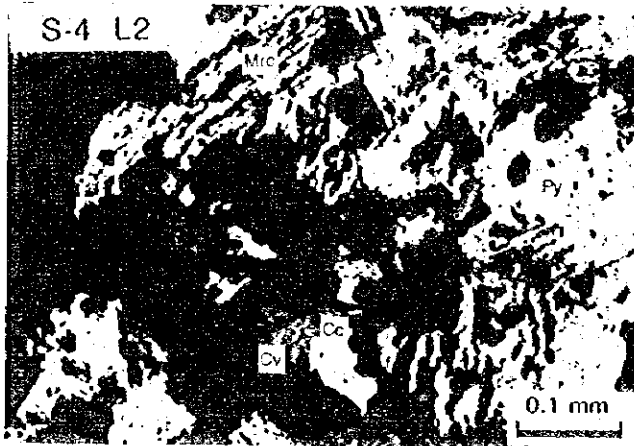
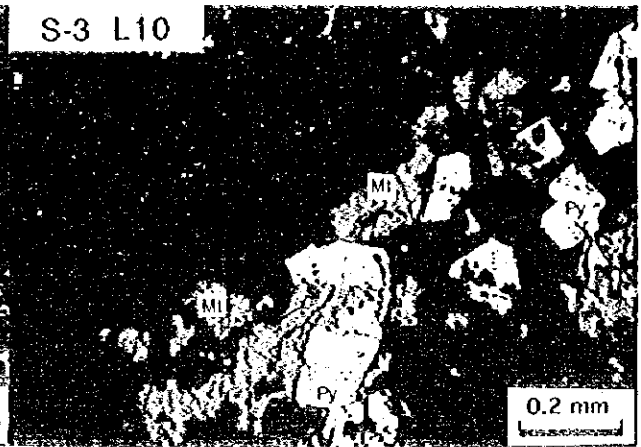
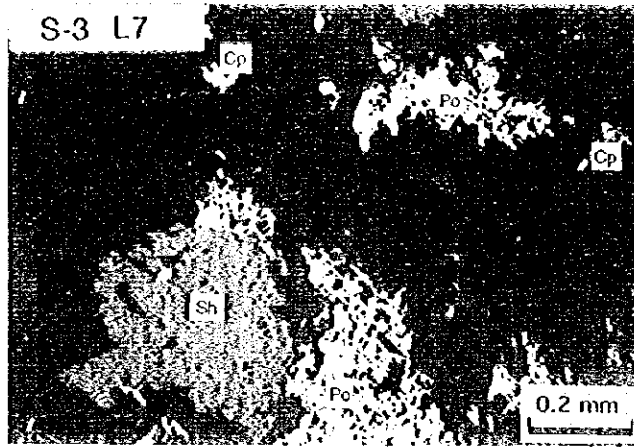
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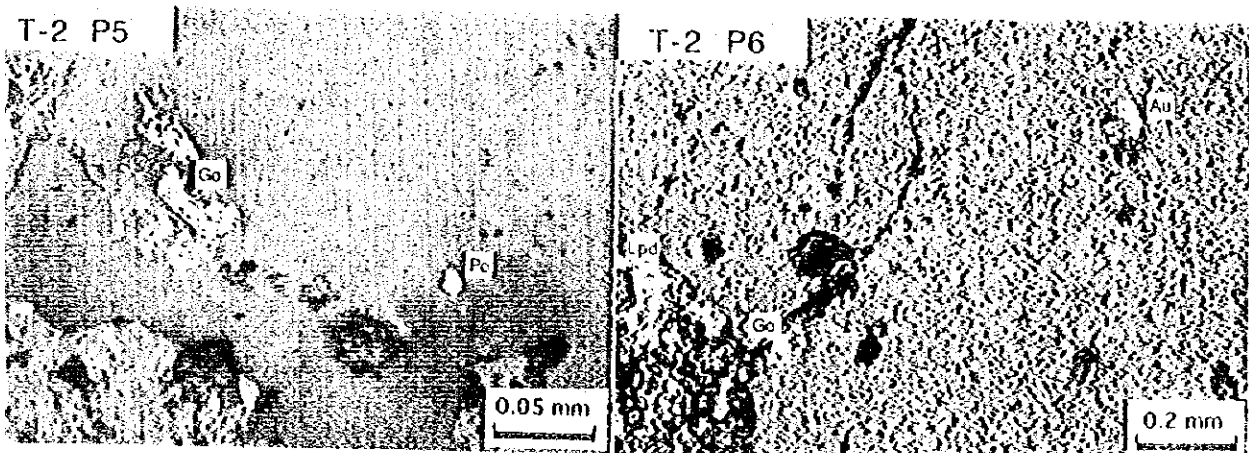
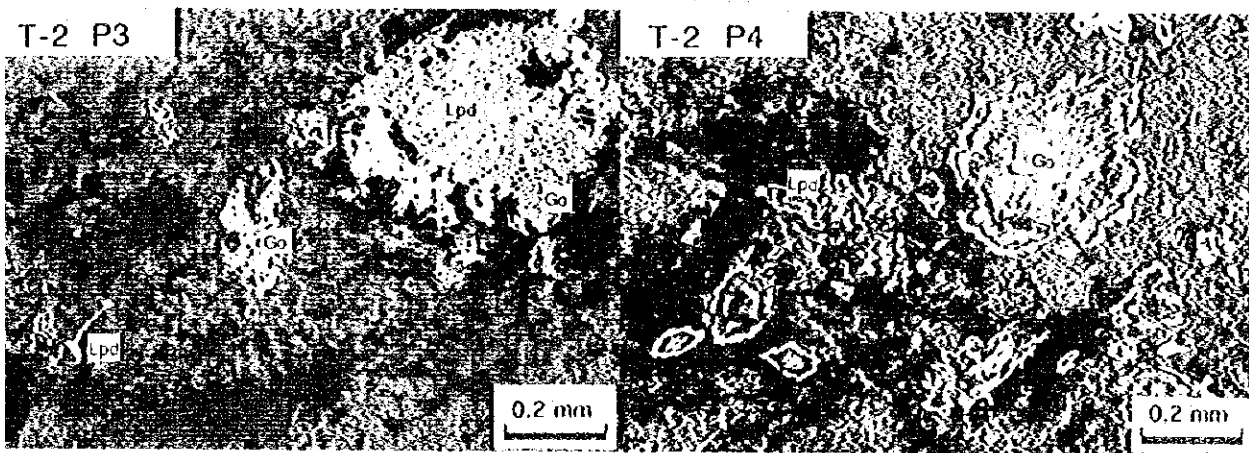
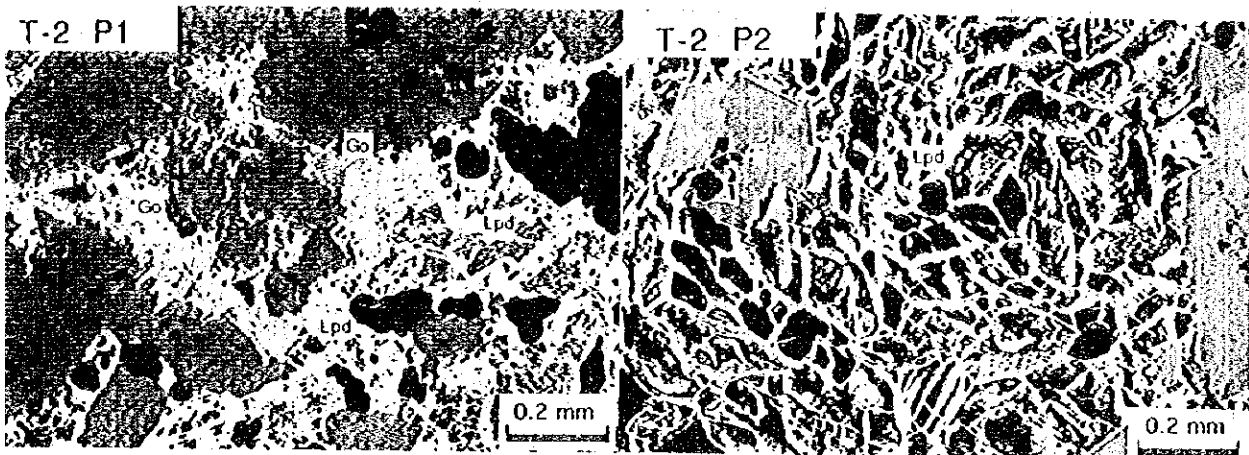
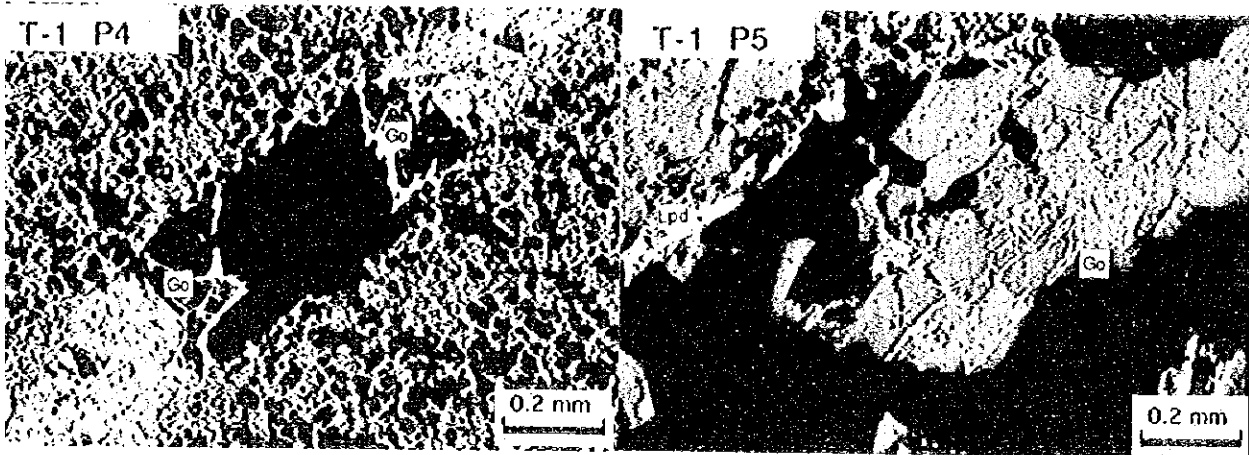
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Asp	:	Arsenopyrite
Au	:	Native-Gold
Bi	:	Native bismuth
Bs	:	Bismuthinite
Cc	:	Chalcocite
Cp	:	Chalcopyrite
Fe Sul:	:	Fe sulfate
Ga	:	Galena
Go	:	Goethite
Grp	:	Graphite
Lpd	:	Lepidocrocite
Mrc	:	Marcasite
Mt	:	Magnetite
Po	:	Pyrrhotite
Py	:	Pyrite
Rt	:	TiO ₂ -Mineral
Sh	:	Scheelite
Sp	:	Sphalerite

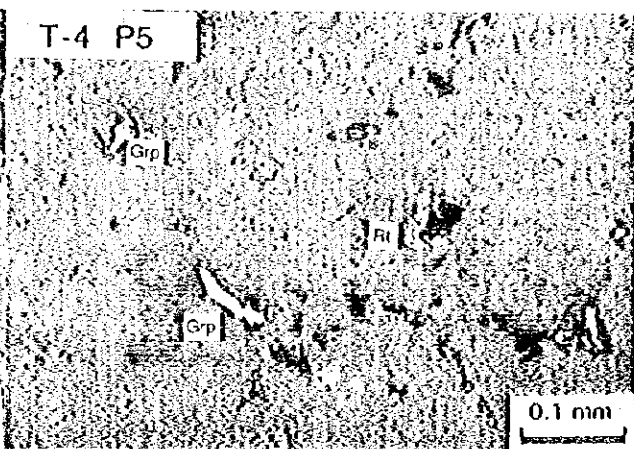
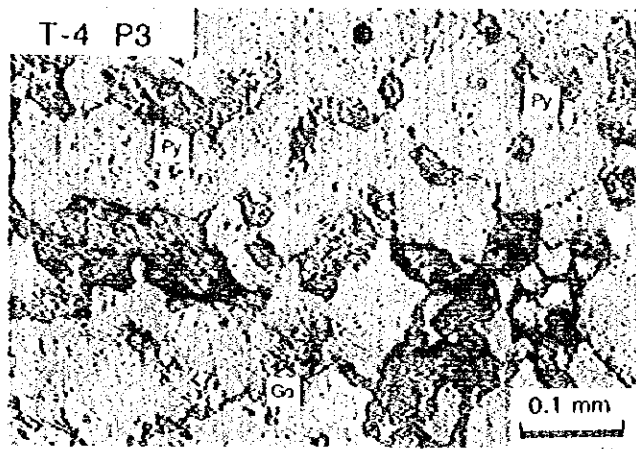
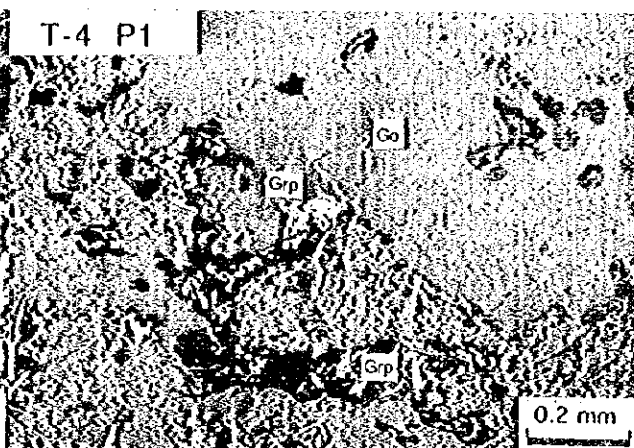
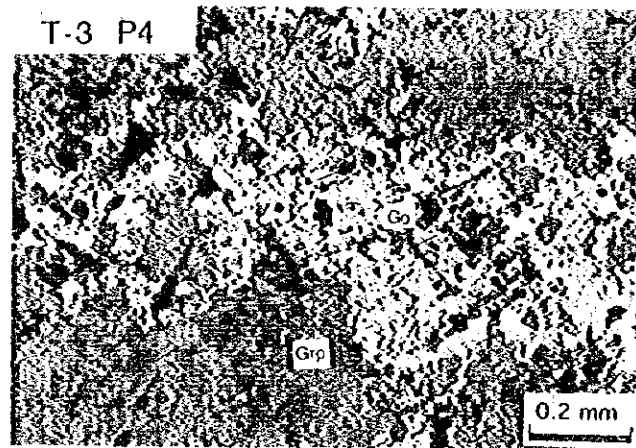
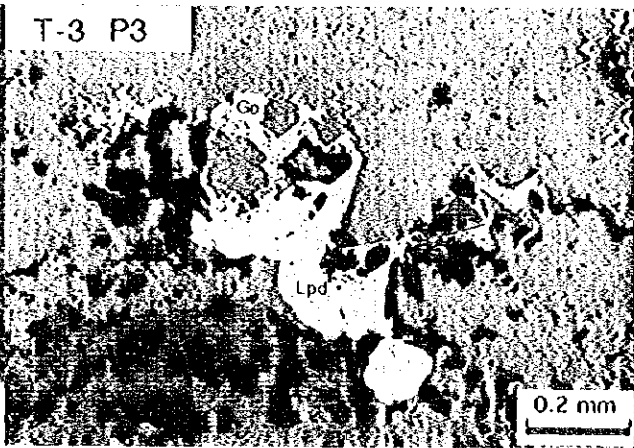
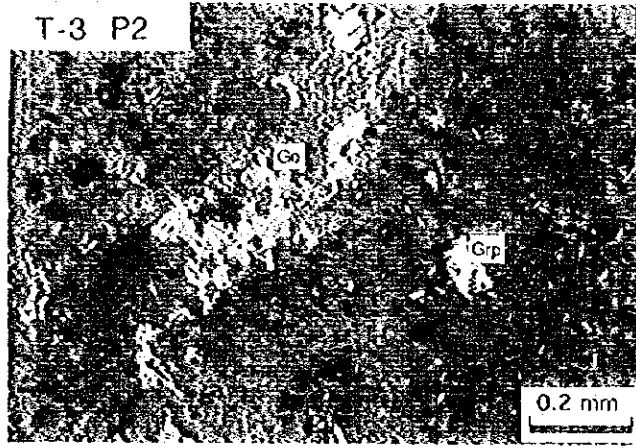
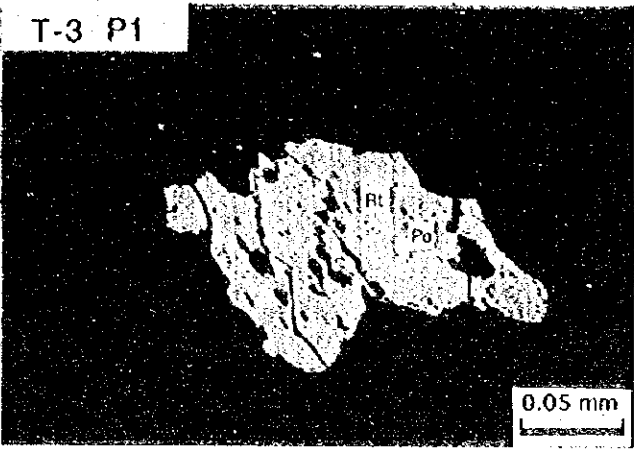
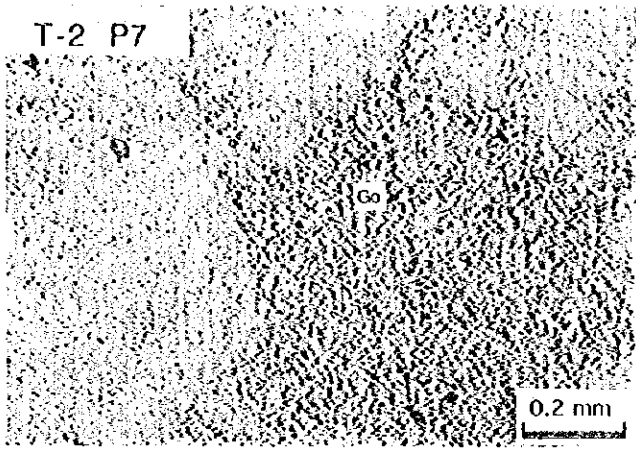
Appendix 2-5 Photomicrographs of the Polished Sections(1/9)



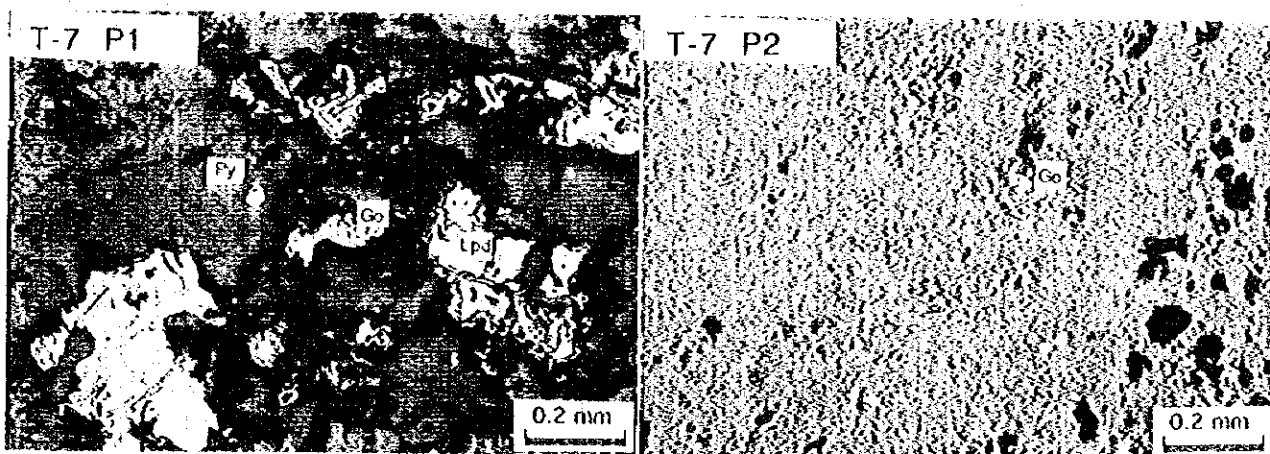
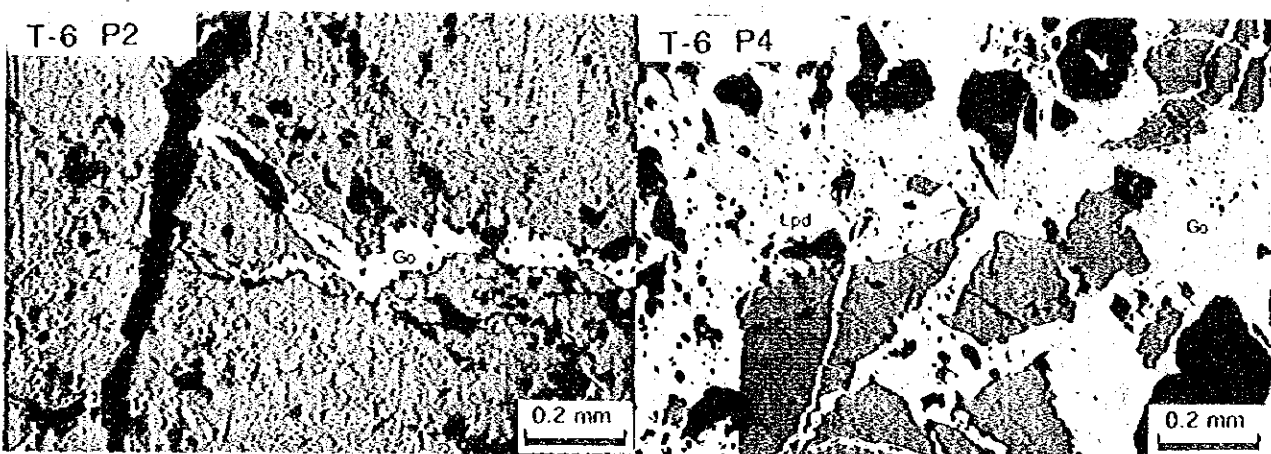
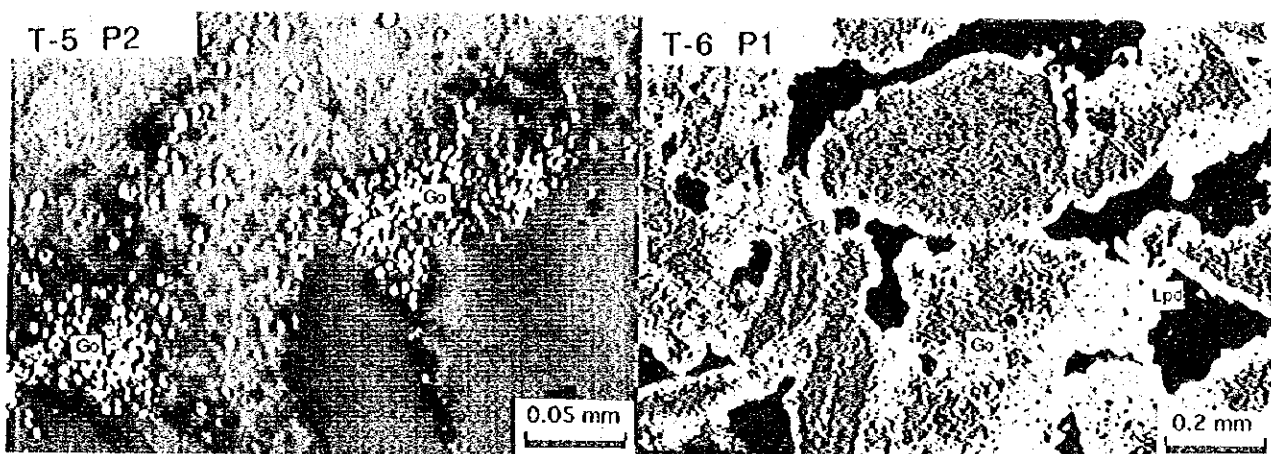
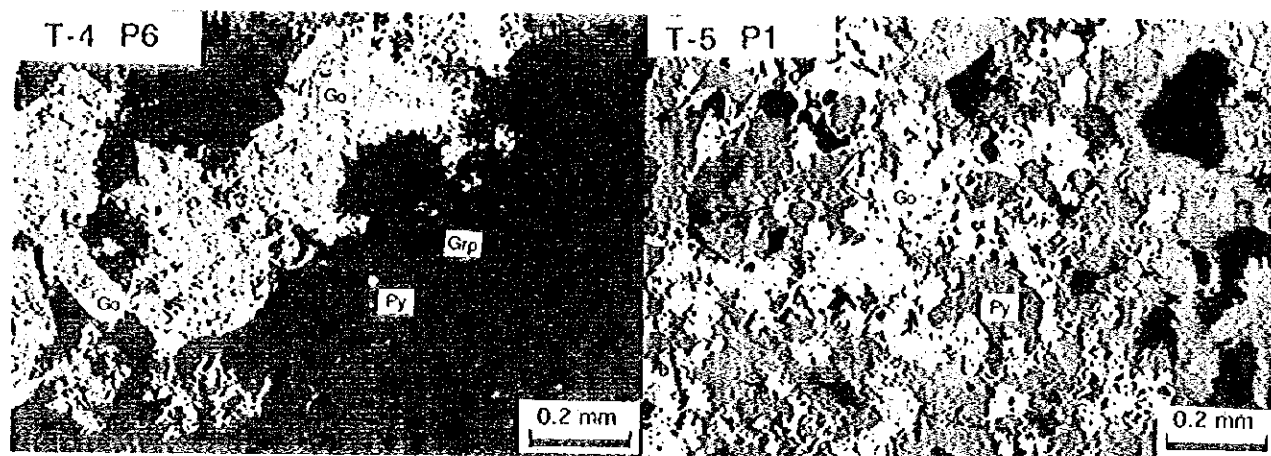
Appendix 2-5 Photomicrographs of the Polished Sections(2/9)



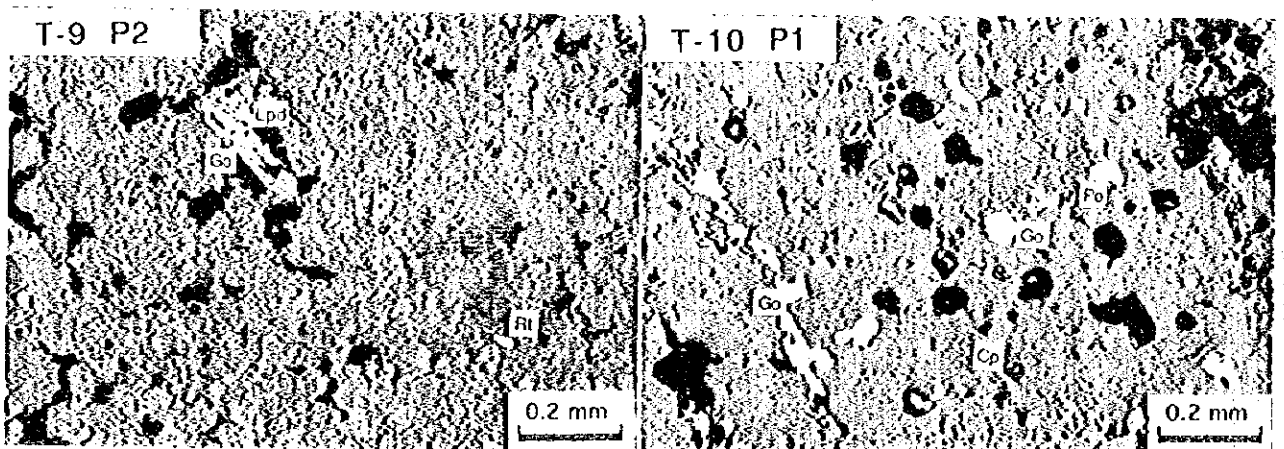
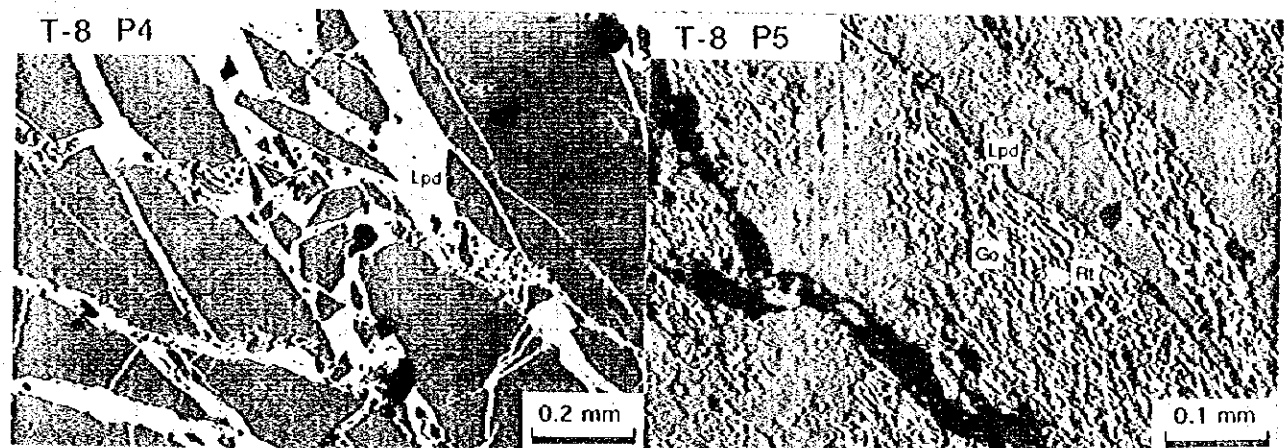
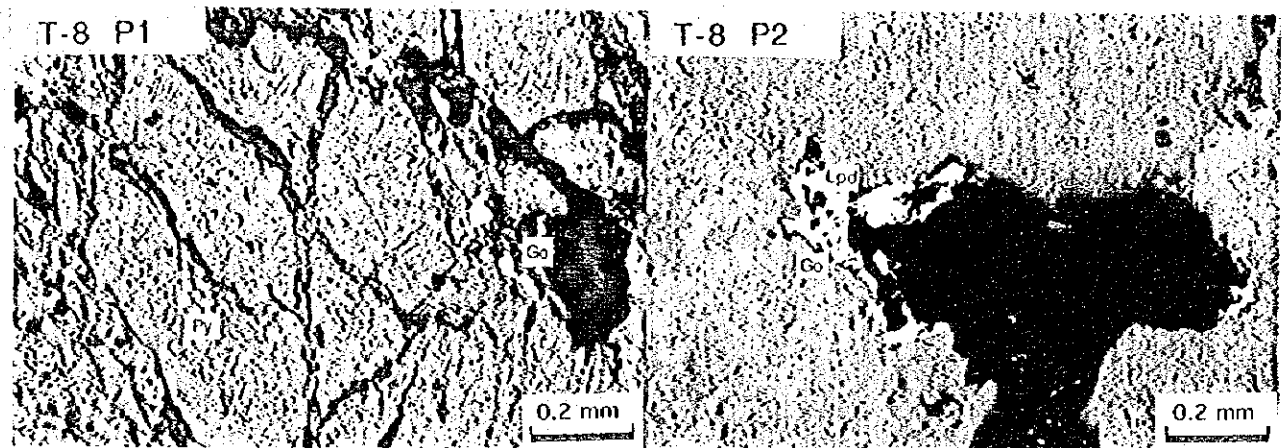
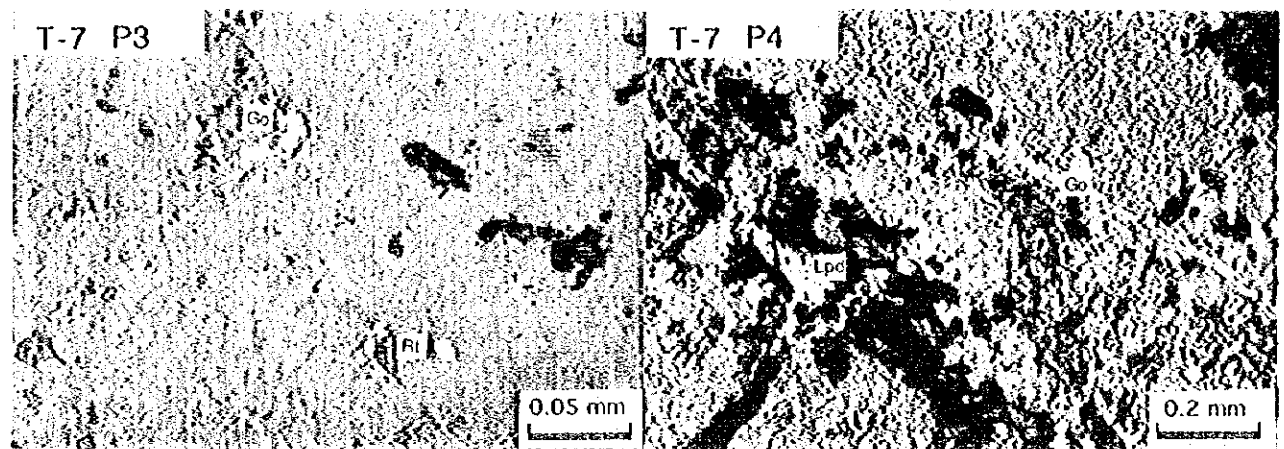


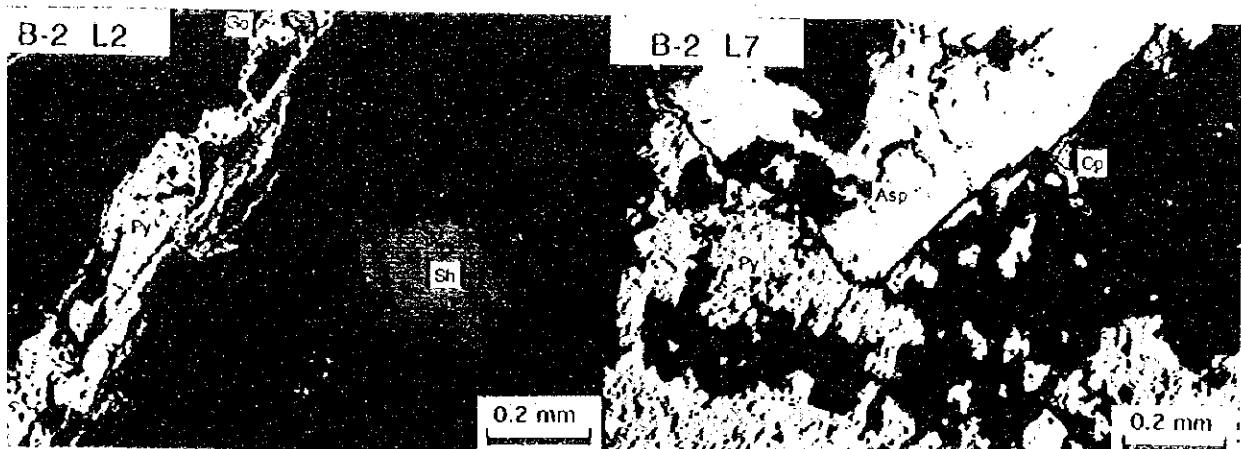
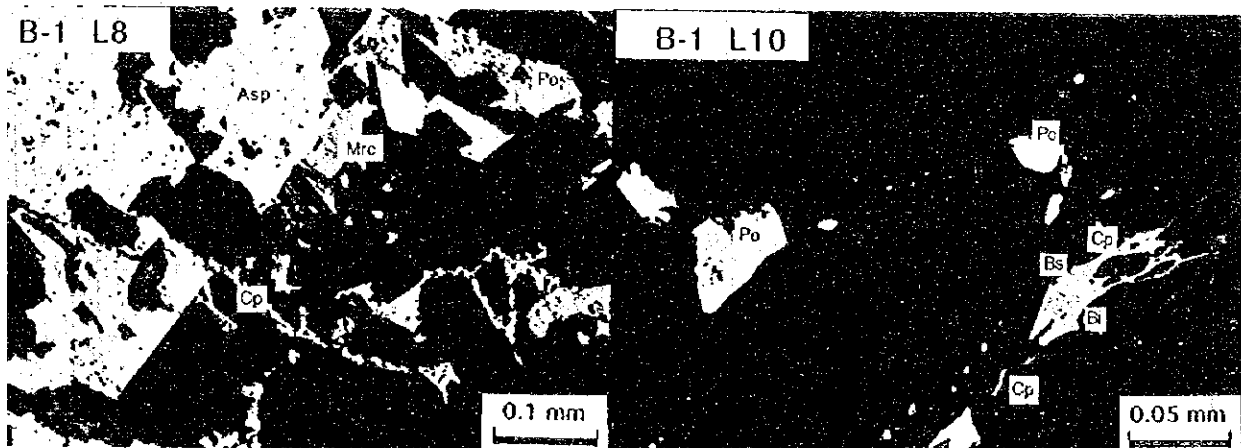
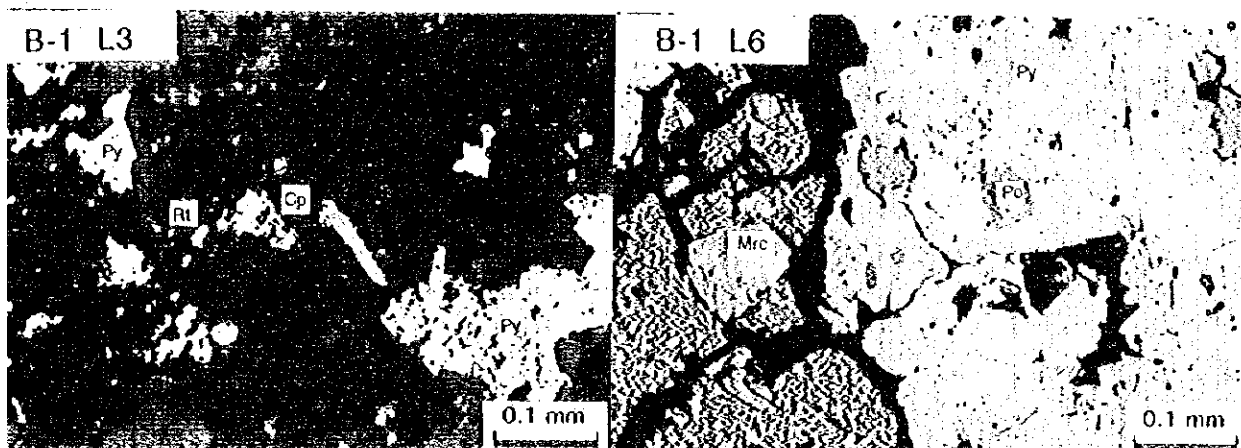
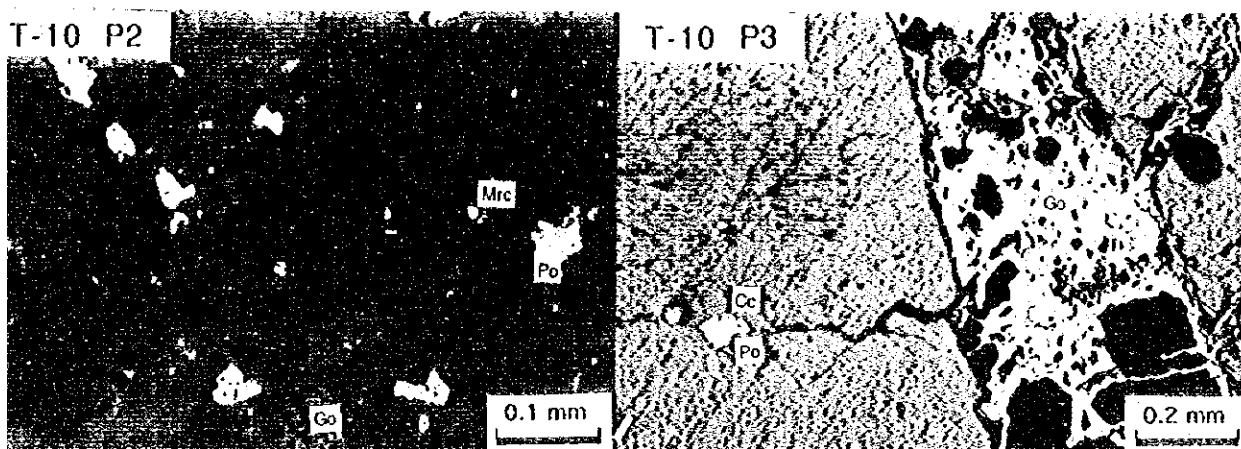


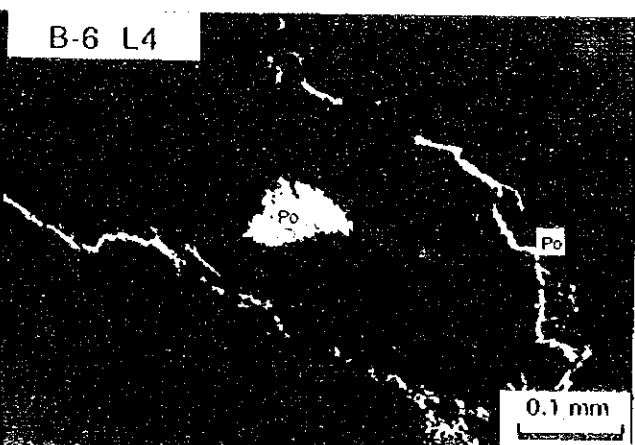
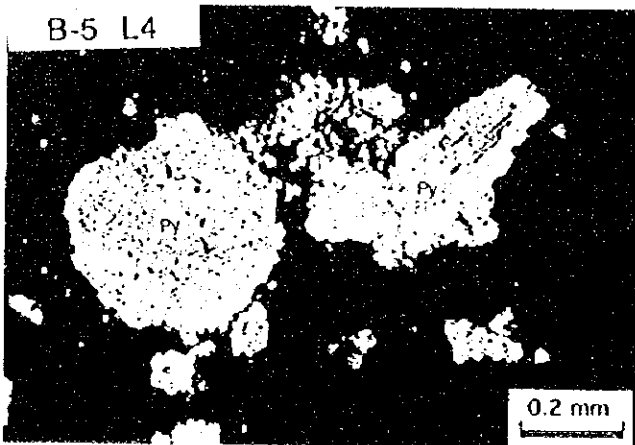
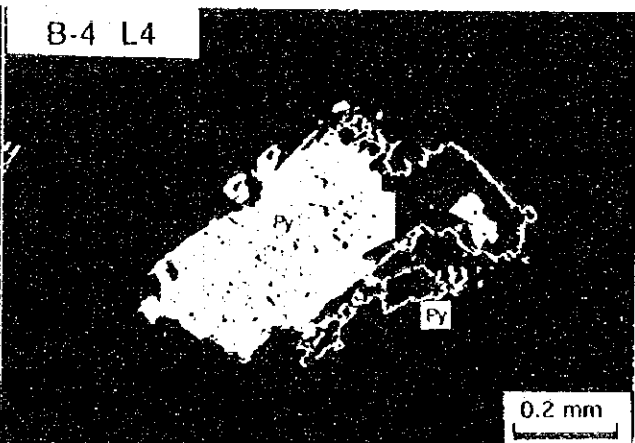
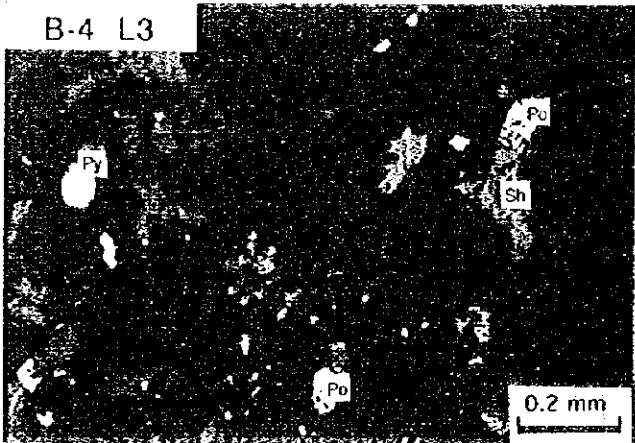
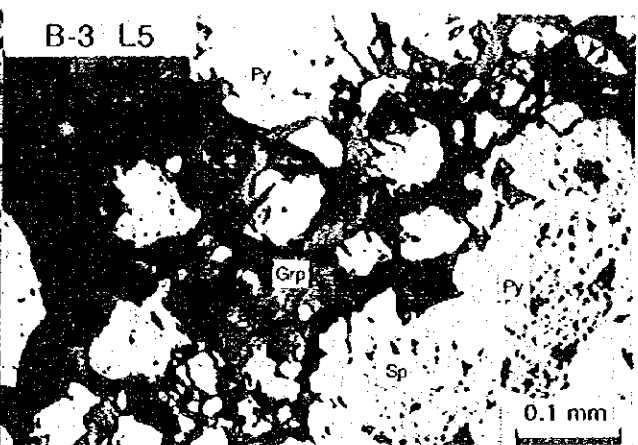
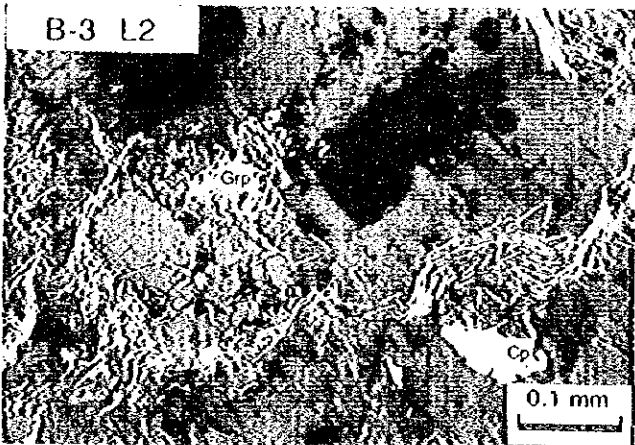
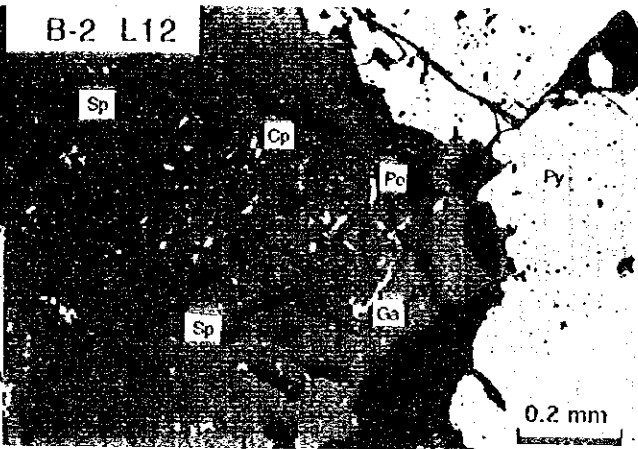
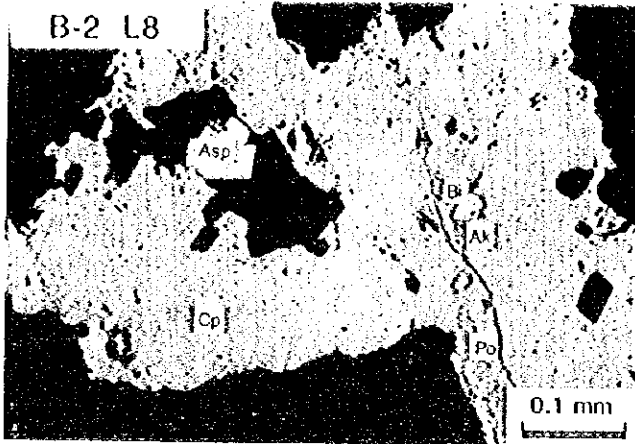
Appendix 2-5 Photomicrographs of the Polished Sections(5/9)



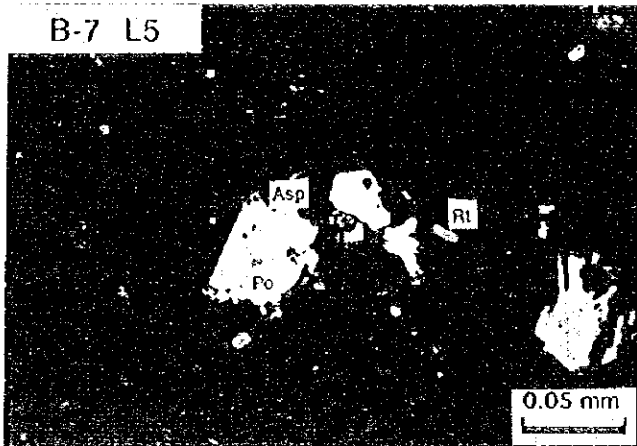
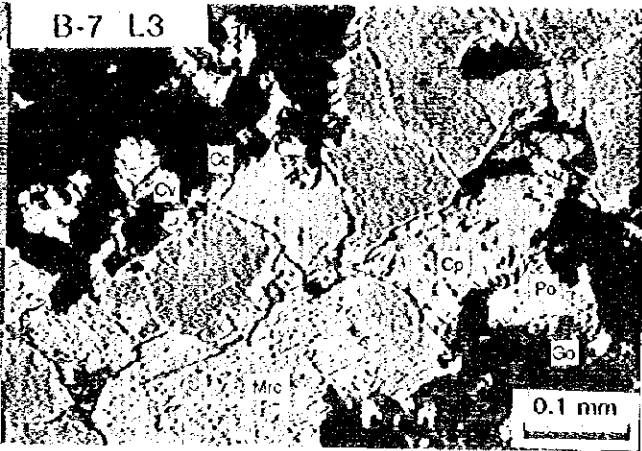
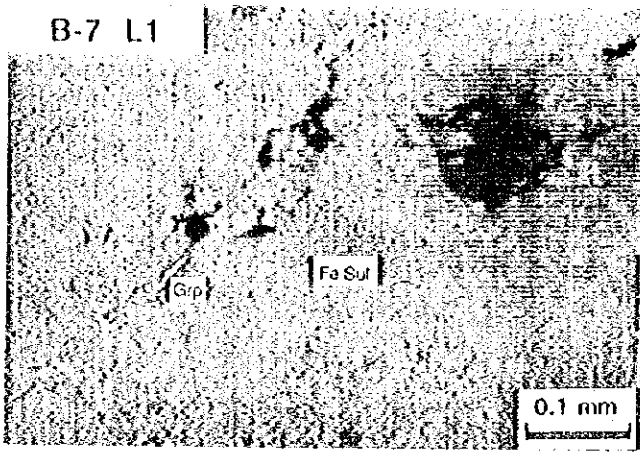
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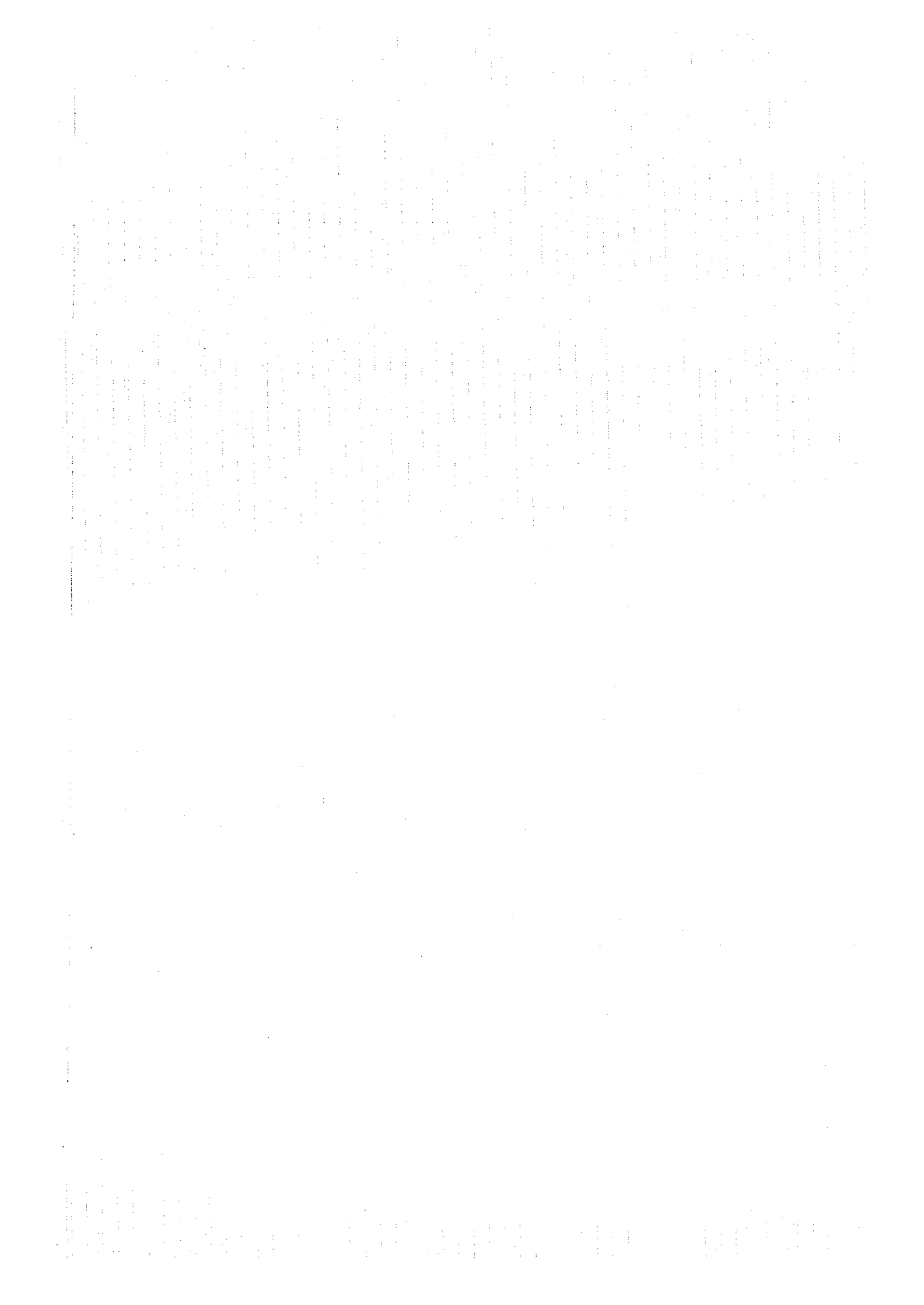






Appendix 2-5 Photomicrographs of the Polished Sections(9/9)





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