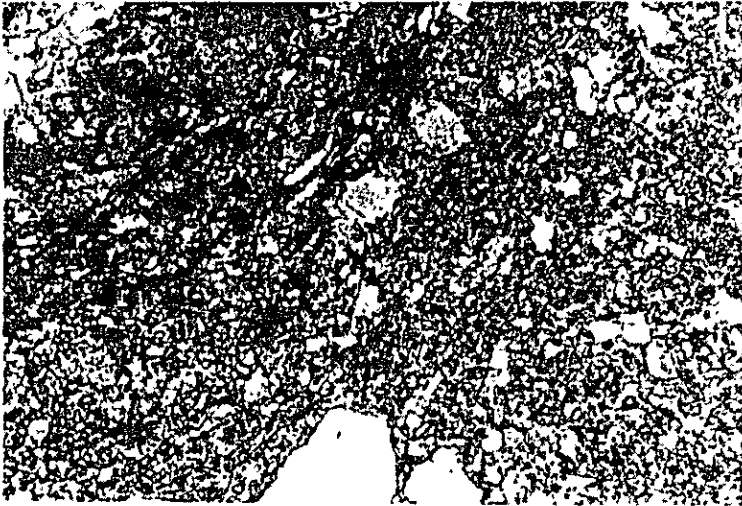


Sample No.: 72901

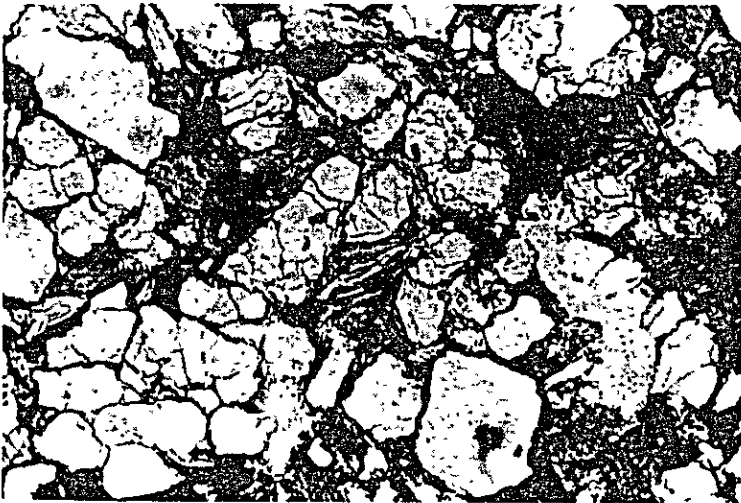


Rock Name : Carbonaceous  
sandstone  
(or siltstone)

Crossed Nicols

0.5 mm

Sample No.: 72902



Rock Name : Conglomerate  
(Quartz conglomerate)

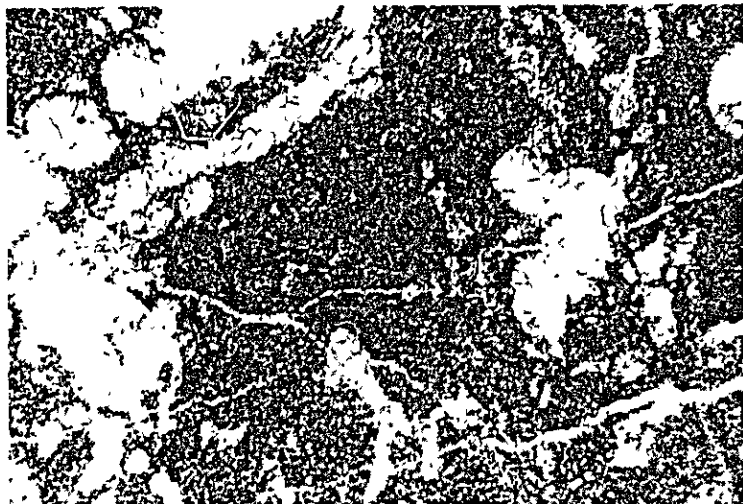
Open Nicol

0.5 mm



Sample No.: 72903

Rock Name : Limestone



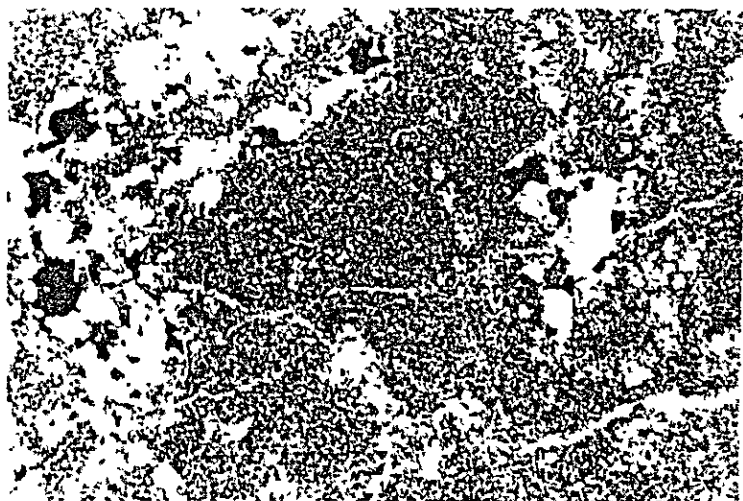
Open Nicol

0.5 mm



Sample No.: 72903

Rock Name : Limestone



Crossed Nicols

0.5 mm





Sample No.: 72904

Rock Name : Quartz conglomerate



Crossed Nicols

0.5 mm

Sample No.: 73001

Rock Name : Granodiorite



Crossed Nicols

0.5 mm



Sample No.: 73002

Rock Name : Quartz feldspar  
porphyry



Crossed Nicols

0.5 mm

Sample No.: 73003

Rock Name : Granodiorite porphyry



Crossed Nicols

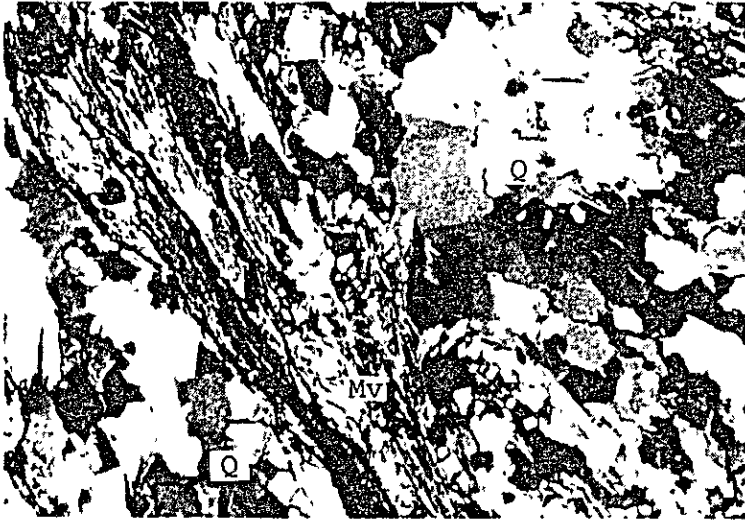
0.5 mm





Sample No.: 73102

Rock Name : Muscovite schist



Crossed Nicols

0.5 mm

Sample No.: 73104

Rock Name : Quartz diorite



Crossed Nicols

0.5 mm



Sample No.: 80101

Rock Name : Polymictic  
conglomerate



Open Nicol

0.5 mm



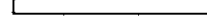
Sample No.: 80101

Rock Name : Polymictic  
conglomerate



Crossed Nicols

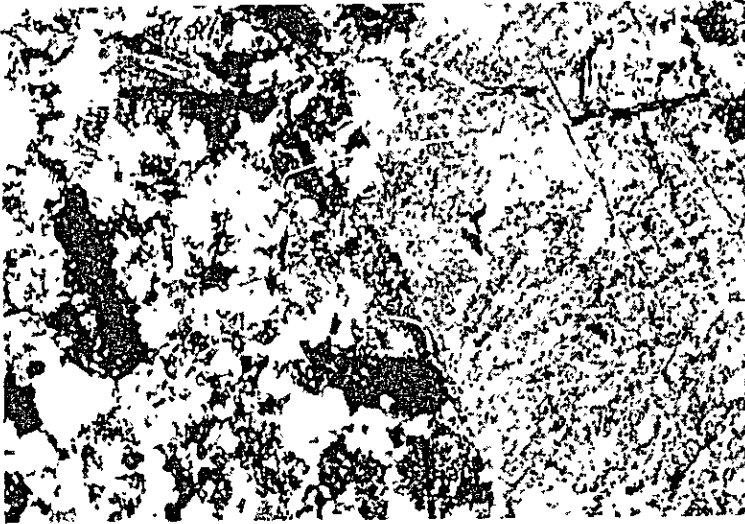
0.5 mm





Sample No.: 80102

Rock Name : Altered quartz  
porphyry



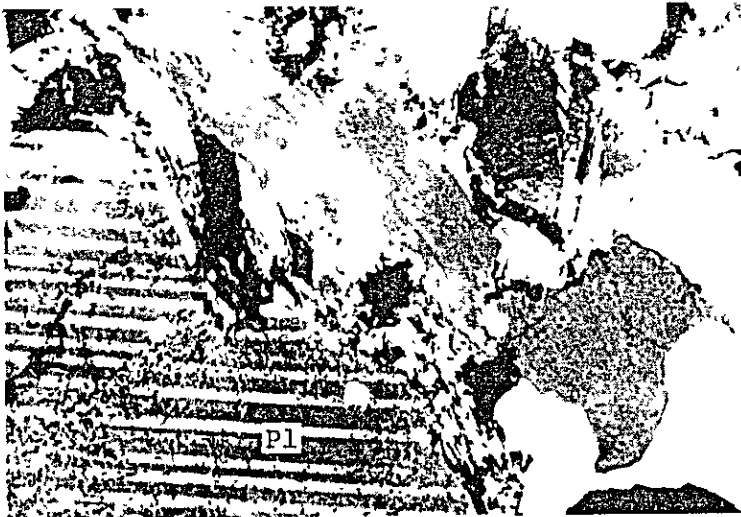
Crossed Nicols

0.5 mm



Sample No.: 80104A

Rock Name : Granodiorite



Crossed Nicols

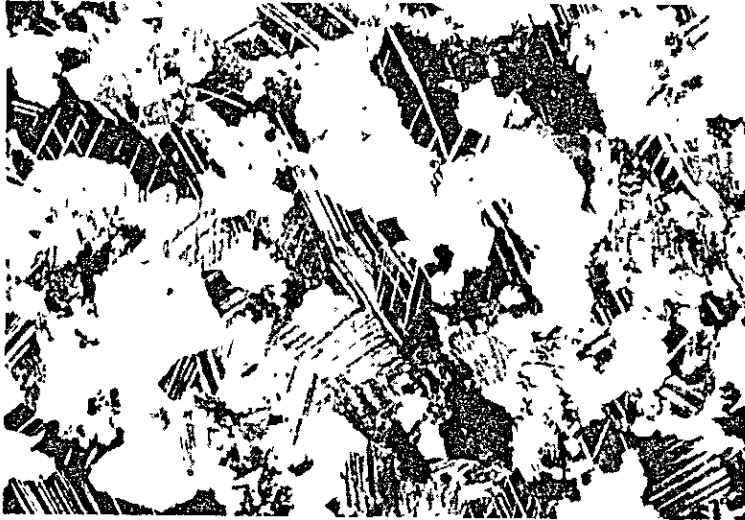
0.5 mm





Sample No.: 80104B

Rock Name : Meta limestone  
(Marble)

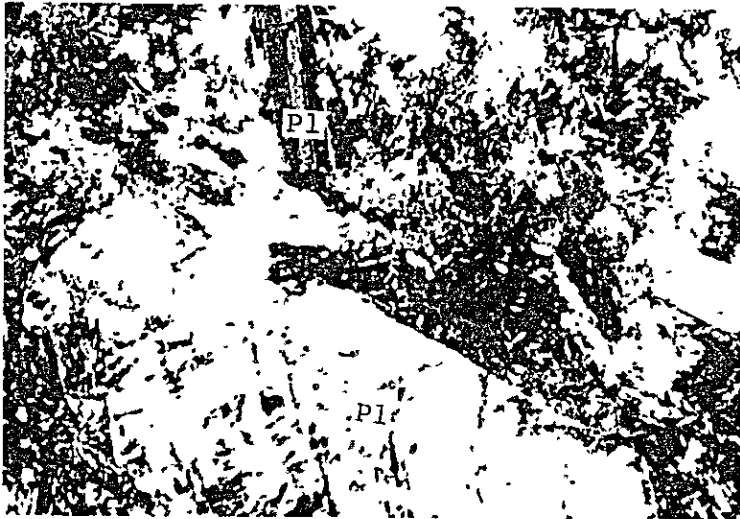


Crossed Nicols

0.5 mm

Sample No.: 80106

Rock Name : Meta-andesite



Crossed Nicols

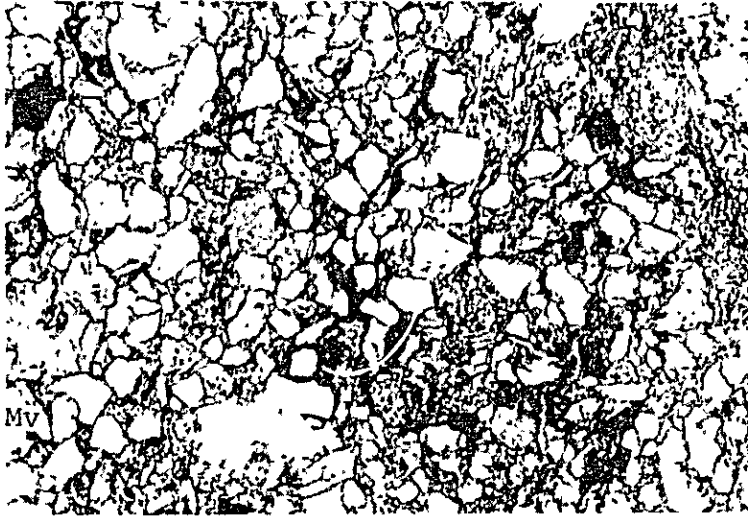
0.5 mm





Sample No.: 80108

Rock Name : Silty sandstone

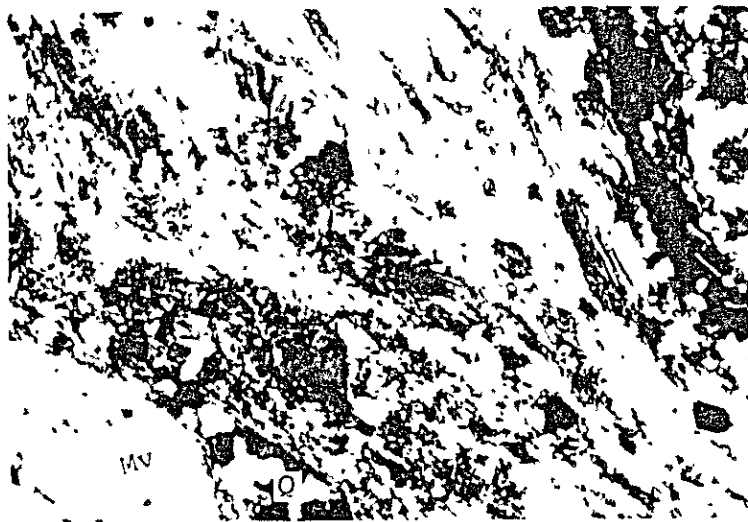


Open Nicol

0.5 mm

Sample No.: 80204

Rock Name : Pelitic schist



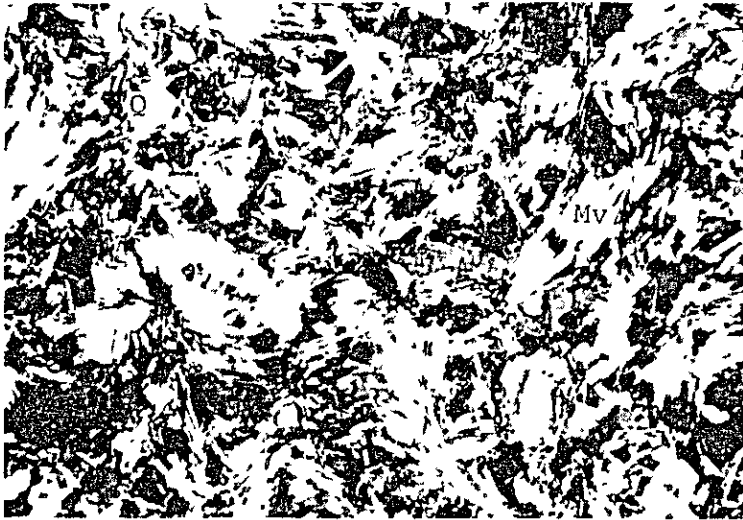
Crossed Nicols

0.5 mm



Sample No.: 80205

Rock Name : Muscovite biotite  
Schist

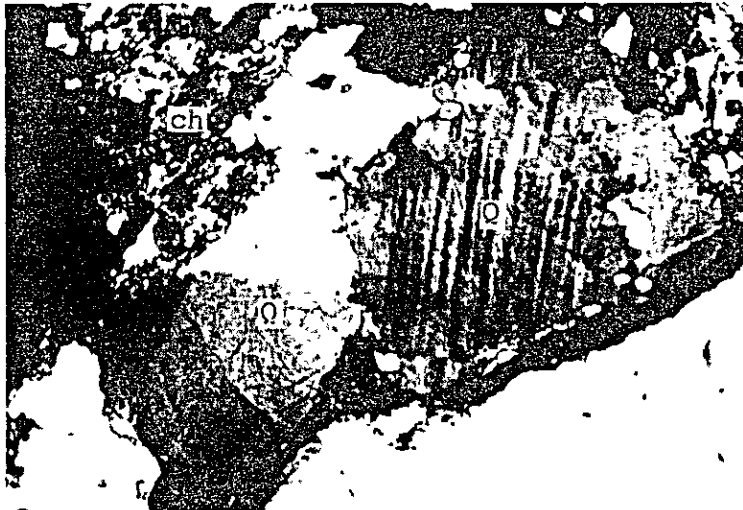


Crossed Nicols

0.5 mm

Sample No.: 80401

Rock Name : Quartz conglomerate



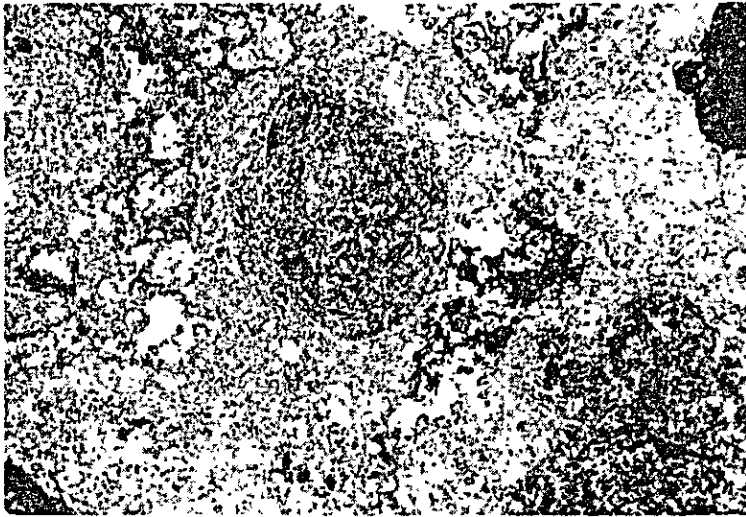
Crossed Nicols

0.5 mm



Sample No.: 80403

Rock Name : Pelleted limestone

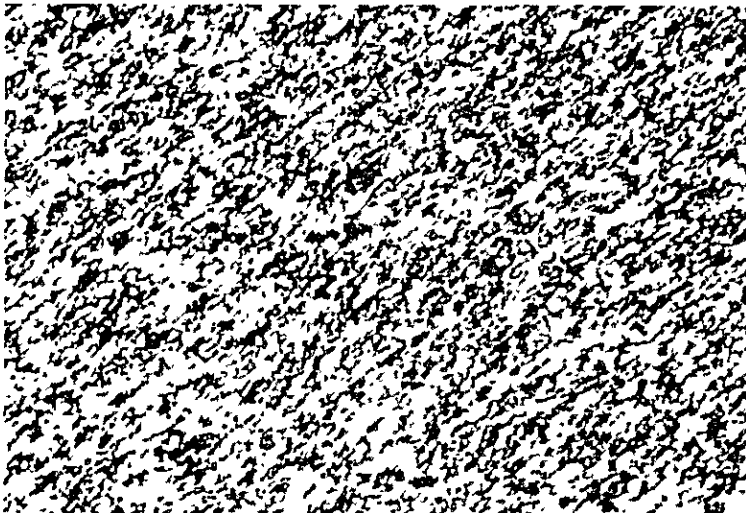


Open Nicol

0.5 mm

Sample No.: 80604

Rock Name : Quartz muscovite  
schist



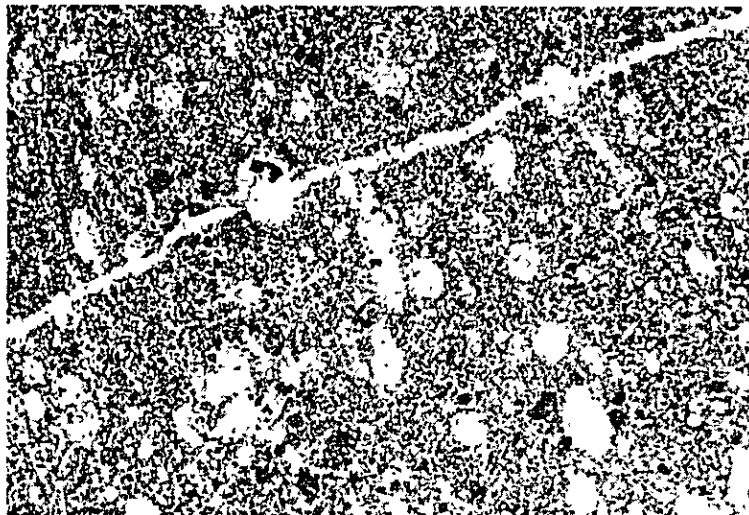
Cross Nicols

0.5 mm



Sample No. : 80404

Rock Name : Dolomitic limestone

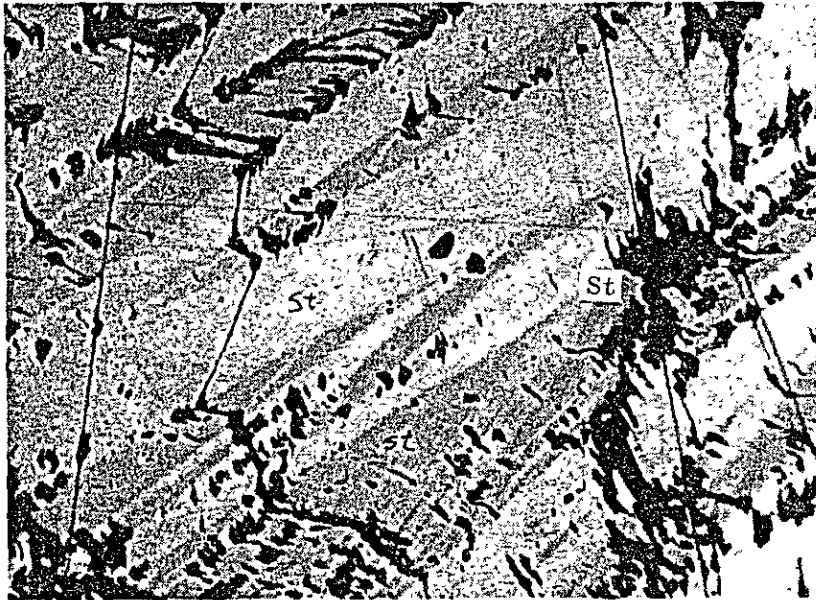


0.5 mm





Polished Sections

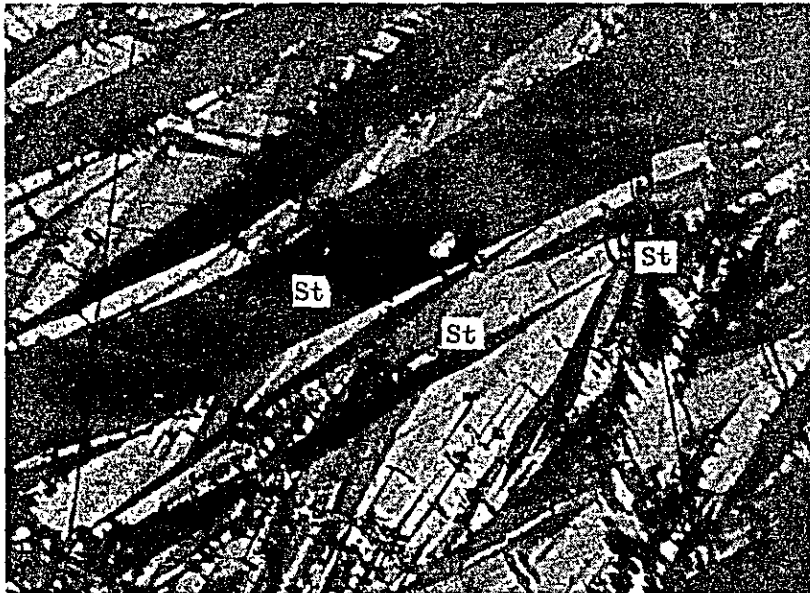


Sample No.: H006

o stibnite vein

Open Nicol

0.2 mm

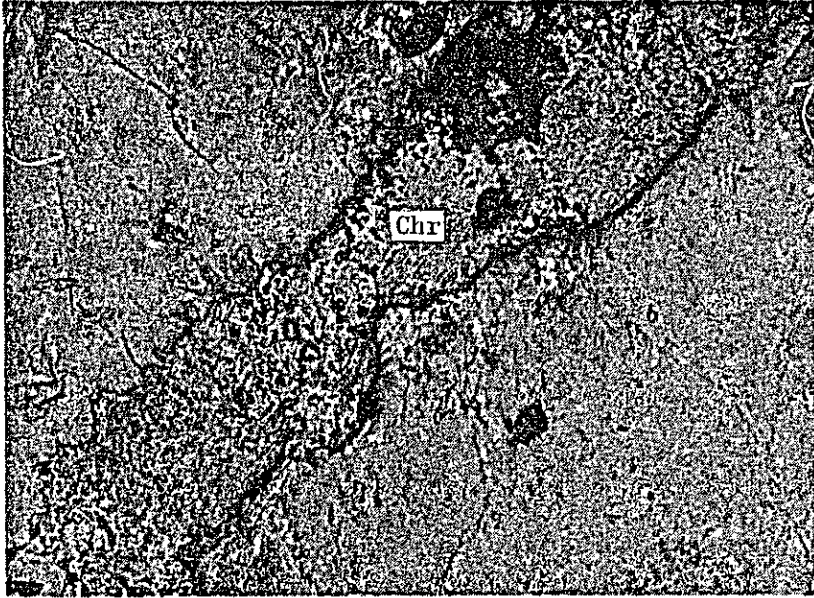


Sample No.: H006

Crossed Nicols

0.2 mm



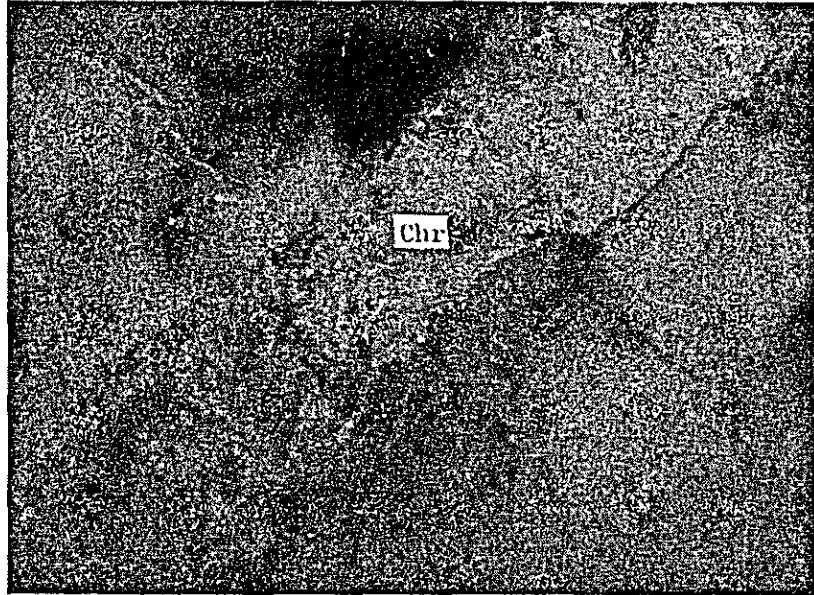


Sample No.: H015

o chrysocolla in  
granodiorite

Open Nicol

0.2 mm  
└──────────┘

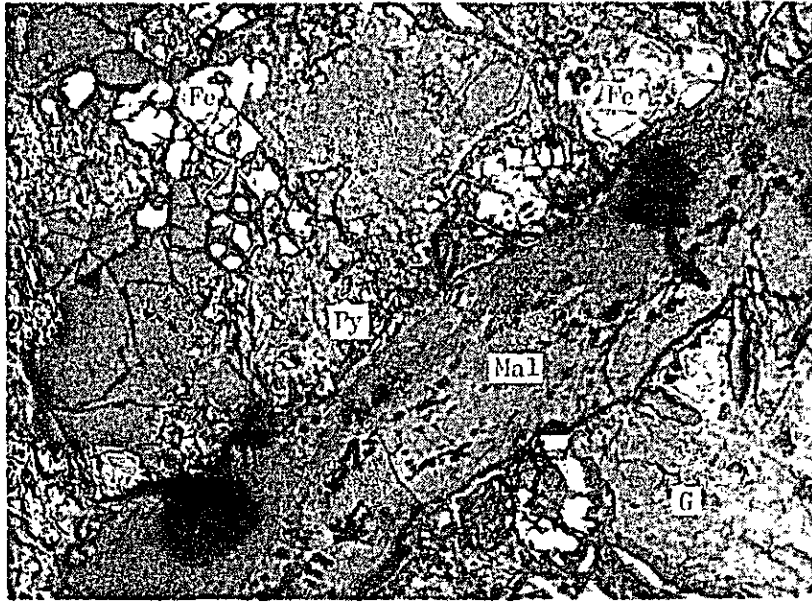


Sample No.: H015

Crossed Nicols

0.2 mm  
└──────────┘



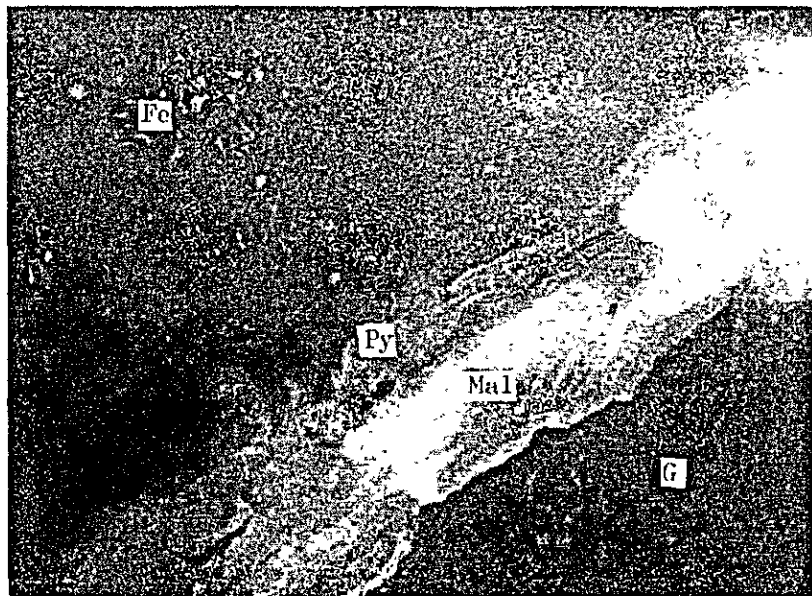


Sample No.: H023

o malachite in  
altered rock

Open Nicol

0.2 mm



Sample No.: H023

Crossed Nicols

0.2 mm

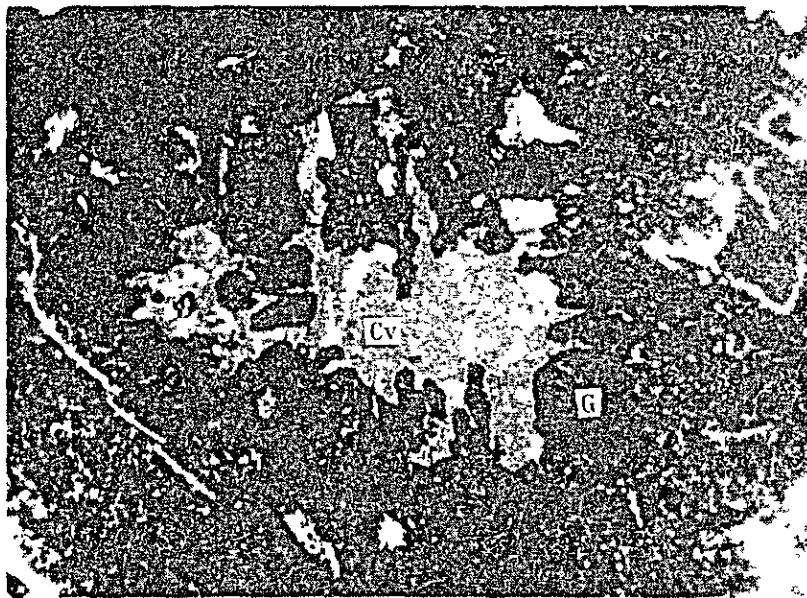




Sample No.: H043  
o high grade Cu-ore

Open Nicol

0.2 mm



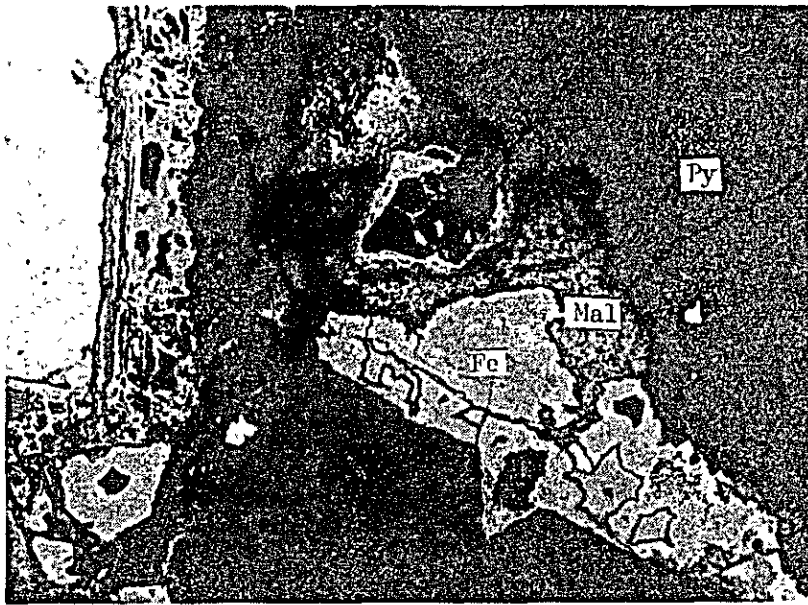
Sample No.: H043

Open Nicol

0.05 mm





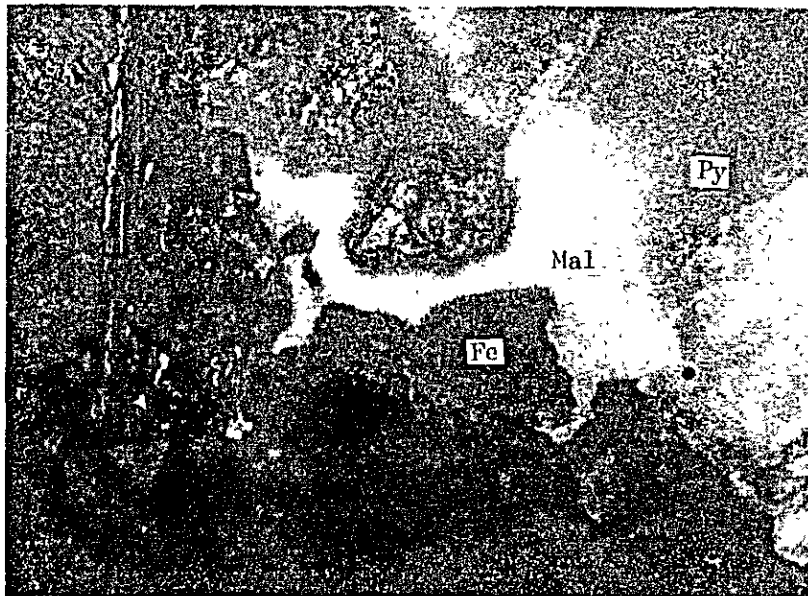


Sample No.: S100

o malachite and  
pyrite ores

Open Nicol

0.2 mm

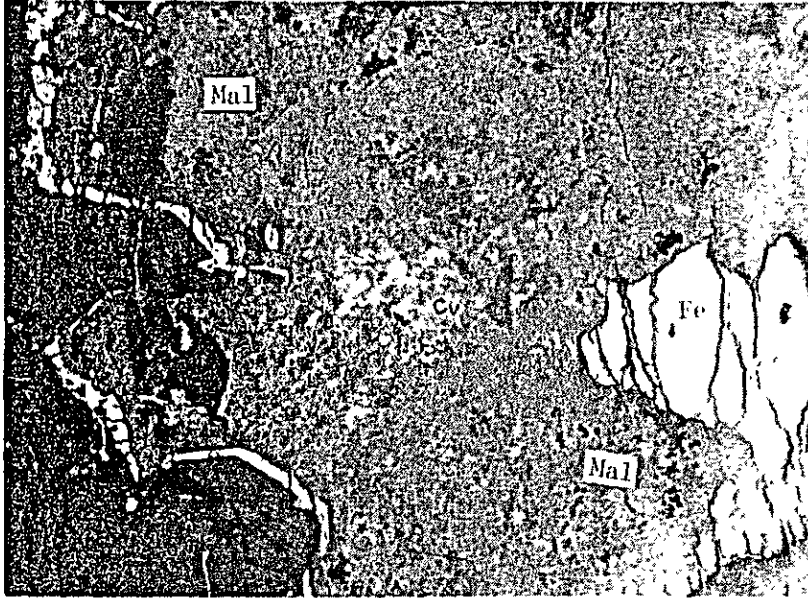


Sample No.: S100

Crossed Nicols

0.2 mm



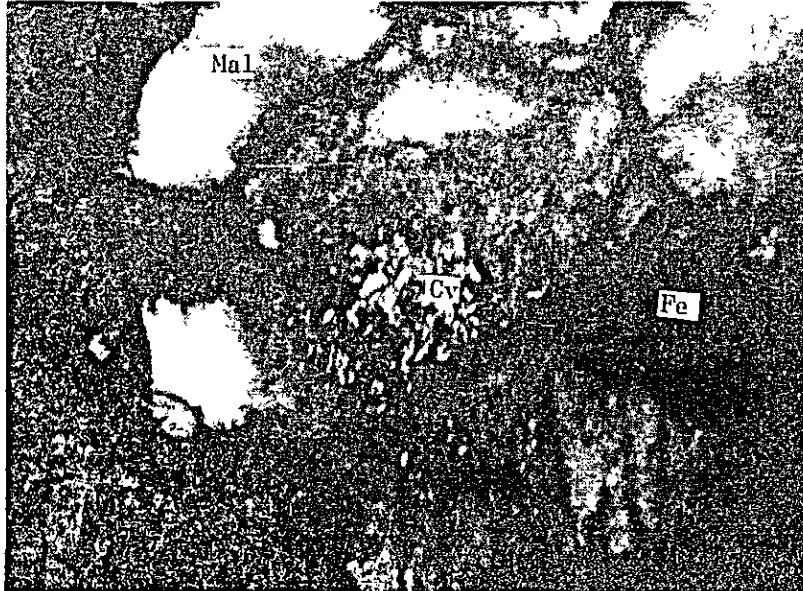


Sample No.: S101

o malachite and  
other Cu-oxides

Open Nicol

0.2 mm

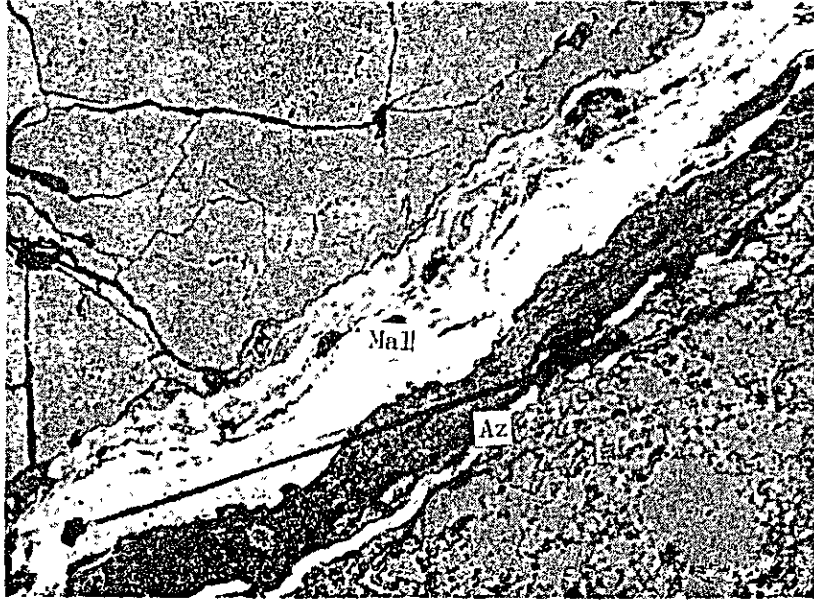


Sample No.: S101

Crossed Nicols

0.2 mm



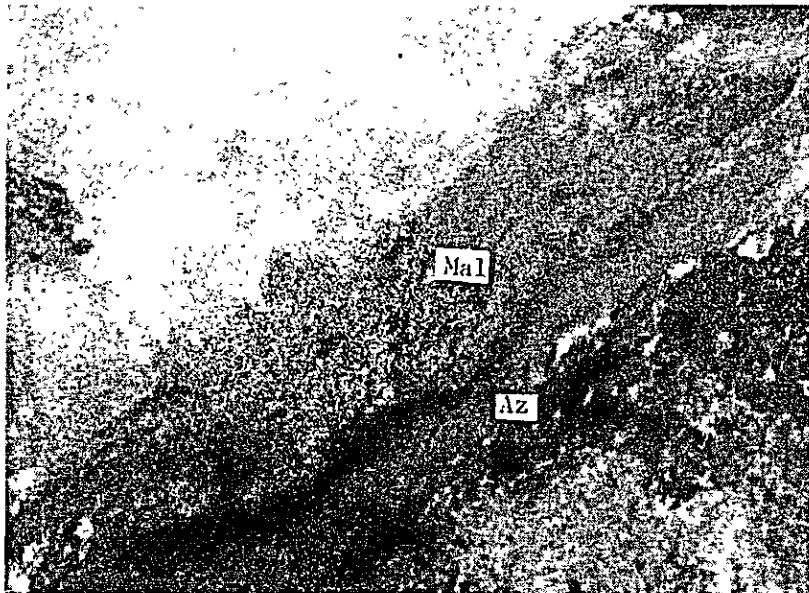


Sample No.: S102

o azurite and  
malachite ores

Open Nicol

0.2 mm



Sample No.: S102

Crossed Nicols

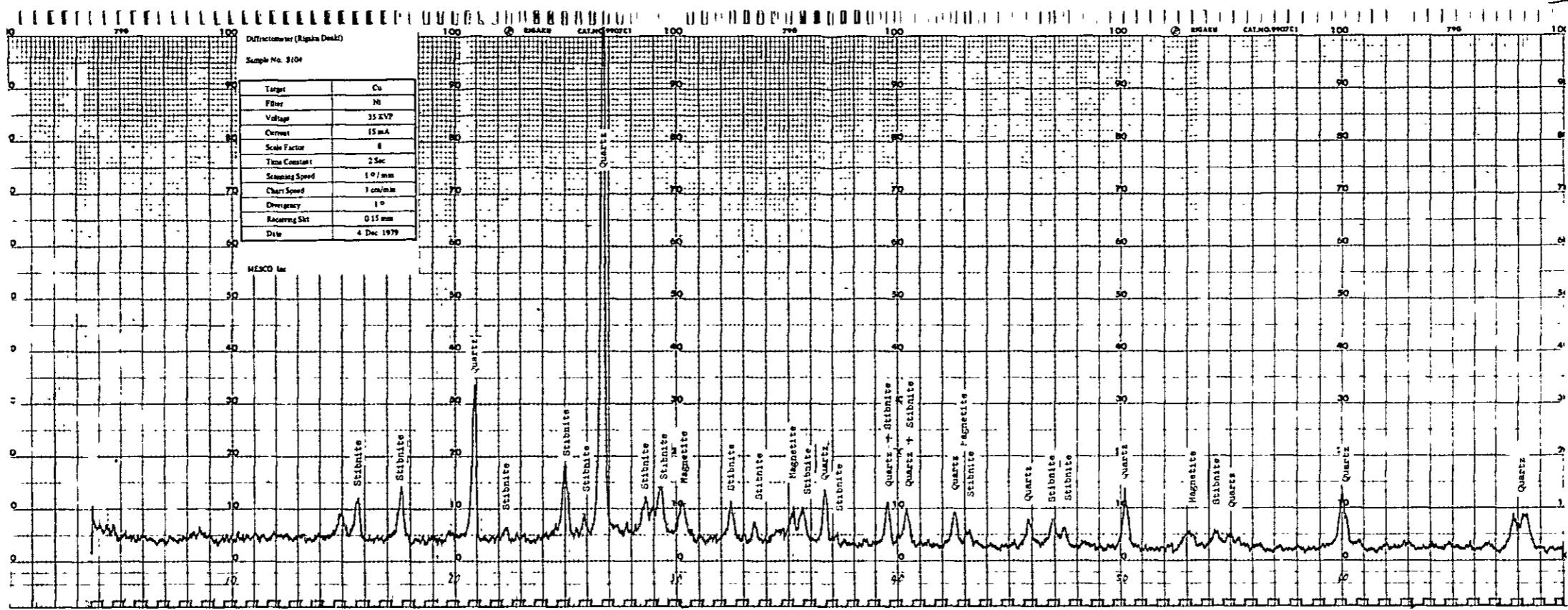
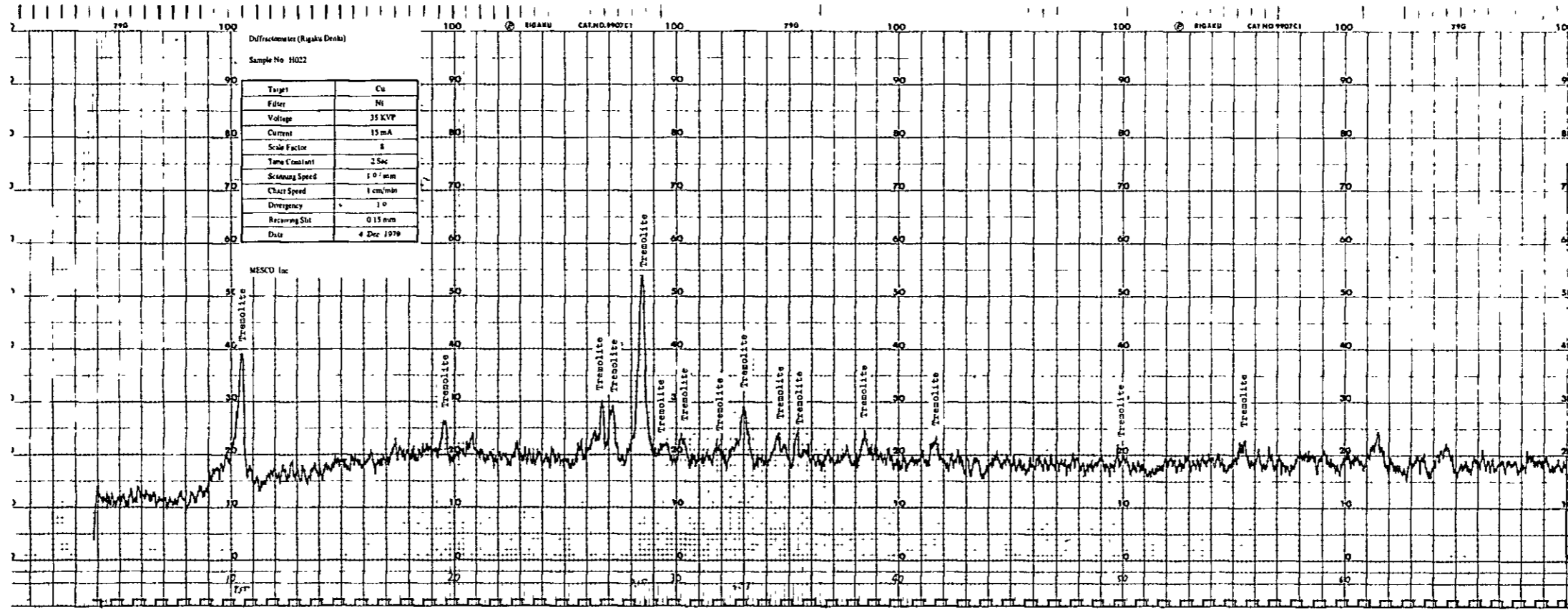
0.2 mm



### A. III-4 Chemical Analysis for Igneous Rocks

		H012	H036	H037	73001	73104	80102	
Chemical Composition	SiO <sub>2</sub>	64.26%	80.29%	60.62%	68.93%	55.60%	73.96%	
	TiO <sub>2</sub>	0.45	0.31	0.50	0.55	2.06	0.18	
	Al <sub>2</sub> O <sub>3</sub>	15.25	10.44	16.39	15.17	14.92	12.73	
	Fe <sub>2</sub> O <sub>3</sub>	1.48	0.36	1.04	1.37	3.67	3.04	
	FeO	4.81	0.86	2.95	2.29	6.40	0.57	
	MnO	0.11	0.01	0.03	0.09	0.14	0.02	
	MgO	2.09	0.40	4.52	1.06	2.61	0.08	
	CaO	2.71	0.31	7.21	3.12	5.96	0.21	
	Na <sub>2</sub> O	5.68	4.72	4.54	3.19	3.68	1.99	
	K <sub>2</sub> O	0.25	0.29	0.33	2.20	1.15	5.66	
	P <sub>2</sub> O <sub>5</sub>	0.12	0.06	0.11	0.16	0.93	0.03	
	H <sub>2</sub> O+	2.15	1.22	1.33	0.45	0.99	0.35	
	H <sub>2</sub> O-	0.20	0.28	0.08	0.45	0.64	0.23	
	<b>Total</b>	<b>99.56</b>	<b>99.55</b>	<b>99.65</b>	<b>99.03</b>	<b>98.75</b>	<b>99.05</b>	
CIPW Normative Minerals	Q	18.99%	51.28%	12.09%	33.71%	14.21%	40.87%	
	C	1.02	1.98	-	2.29	-	3.07	
	Or	1.52	1.75	1.98	13.25	7.00	33.97	
	Ab	49.44	40.73	39.10	27.51	32.06	17.10	
	An	13.02	1.17	23.79	14.71	21.41	0.86	
	<b>Salic Total</b>	<b>84.00</b>	<b>96.91</b>	<b>76.96</b>	<b>91.47</b>	<b>74.68</b>	<b>95.86</b>	
	Di	Wo	-	-	4.96	-	1.16	-
		En	-	-	3.42	-	0.61	-
	Hy	Fs	-	-	1.15	-	0.52	-
		En	5.35	1.02	8.04	2.69	6.09	0.20
		Fs	7.27	0.80	2.71	2.38	5.22	-
		Mt	2.21	0.53	1.53	2.02	5.48	1.40
		Hm	-	-	-	-	-	2.12
		Il	0.88	0.60	0.97	1.06	4.03	0.35
	Ap	0.29	0.14	0.26	0.38	2.22	0.07	
<b>Femic Total</b>	<b>16.00</b>	<b>3.09</b>	<b>23.04</b>	<b>8.53</b>	<b>25.32</b>	<b>4.14</b>		

### A. III-5 Charts of X-ray Diffraction Test







A. III—6 Chemical Analysis of Ore Samples

Sample No.	Location		Name of Mineralized Zone	Occurrence and Name of Ore	Au g/t	Ag g/t	Cu %	Pb %	Zn %	Sb %	As %
	X	Y									
H006	28.3	63.1	La Union	Tata Angel	-	0.0	0.00	-	-	23.9	0.01
H007	20.8	67.6	Mangulile	Lupe	0.0	0.0	-	-	-	-	-
H015	34.2	17.2	Campamento	Concordia	-	-	1.30	-	-	-	-
H016	33.1	58.8	La Union	Chica Leona	-	-	1.20	-	-	-	-
H017	20.8	67.8	Mangulile	La Lola	0.1	0.0	-	-	-	-	-
H018	18.5	67.0	Mangulile	California	0.0	0.0	-	-	-	-	-
H019	18.9	67.1	Mangulile	Lupe	0.0	0.0	-	-	-	-	-
H023	22.5	30.9	Orica-Guayape	La Conce	-	-	3.83	-	-	-	-
H025	22.4	30.9	Orica-Guayape	La Conce	-	-	0.55	-	-	-	-
H026	22.6	30.7	Orica-Guayape	La Conce	0.00	<1	0.00	0.00	0.03	-	-
H031	22.5	29.8	Orica-Guayape	La Conce	0.00	<1	0.04	<1	0.03	-	-
H032	22.5	29.9	Orica-Guayape	La Conce	0.00	<1	0.00	<1	0.04	-	-
H041	16.0	36.2	Orica-Guayape	Suyapita	-	-	3.43	-	-	-	-
H043	16.0	36.2	Orica-Guayape	Suyapita	-	-	14.20	-	-	-	-
80104C	49.1	91.4	Esquipulas del Norte	Perico	-	-	0.01	-	-	-	-





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MPN