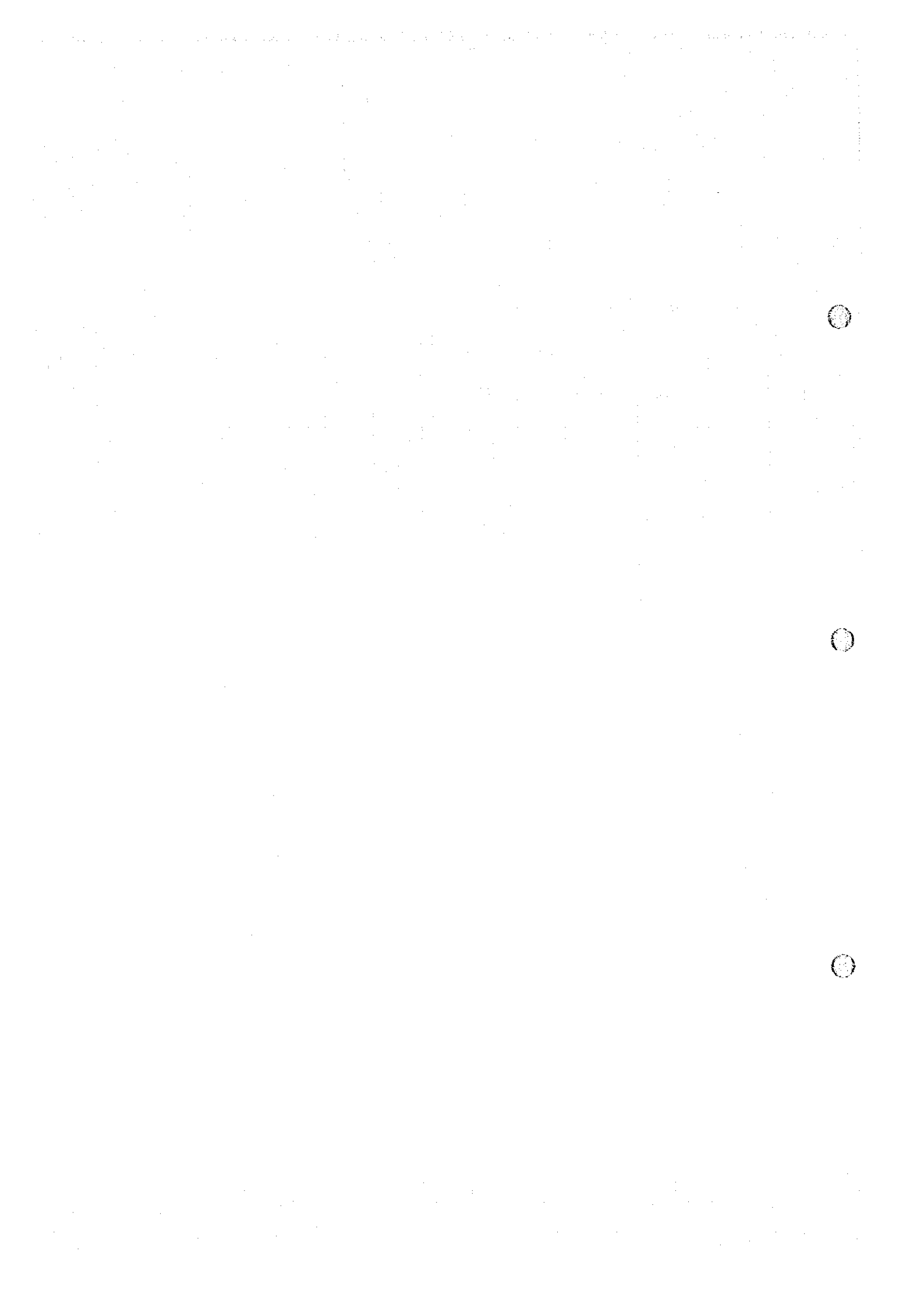


Apx. 15 Photomicrographs of the Thin Section

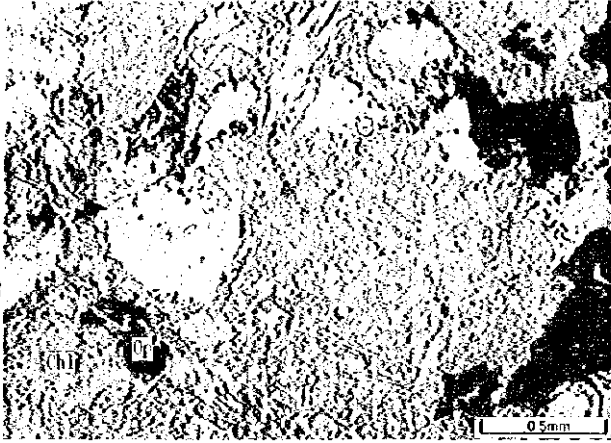
Abbreviations

- Ap : Apatite
- Cal : Calcite
- Chl : Chlorite
- CM : Clay minerals
- Cpx : Augite
- Cs : Cerussite
- Cv : Cavity
- Lm : Limonite
- Op : Opaque
- Or : Orthoclase
- Pl : Plagioclase
- Qz : Quartz
- Rf : Rock fragment
- Rhc : Rhodocrosite
- Ser : Sericite
- Sp : Sphalerite



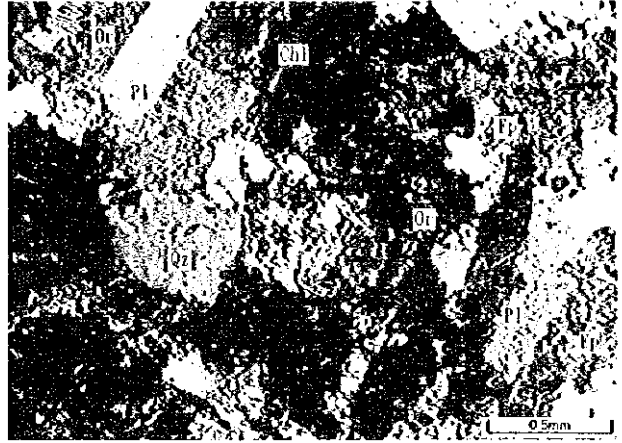
60 - 1 - 229

plane polarized light



60 - 1 - 229

crossed polarized light



60 - 5 - 1

plane polarized light



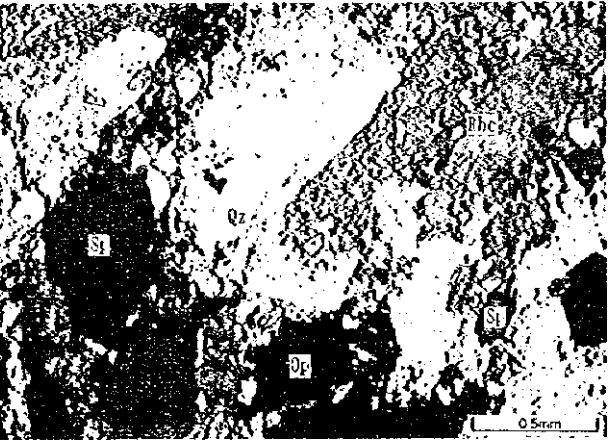
60 - 5 - 1

crossed polarized light



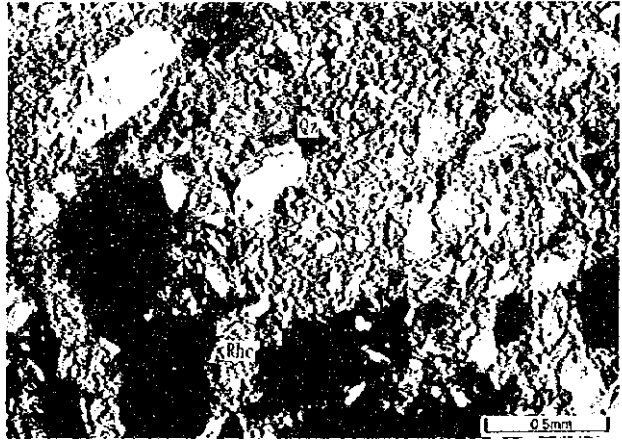
60 - 5 - 3

plane polarized light

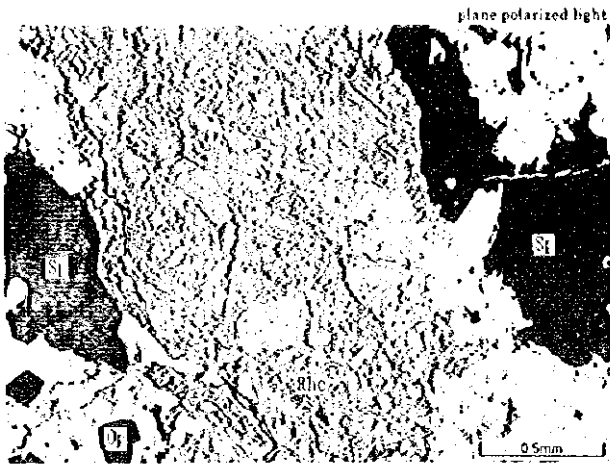


60 - 5 - 3

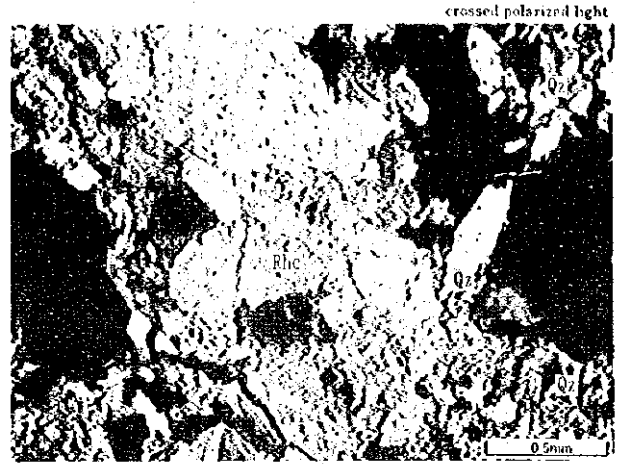
crossed polarized light



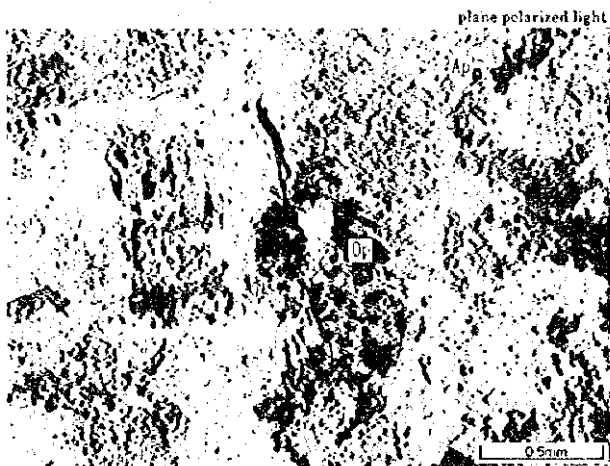
60 - 5 - 7



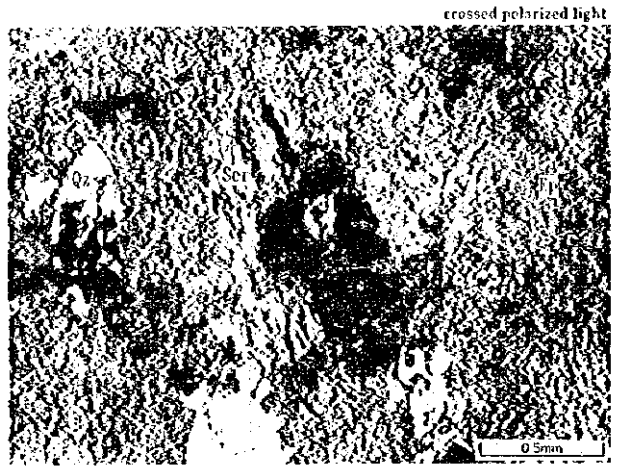
60 - 5 - 7



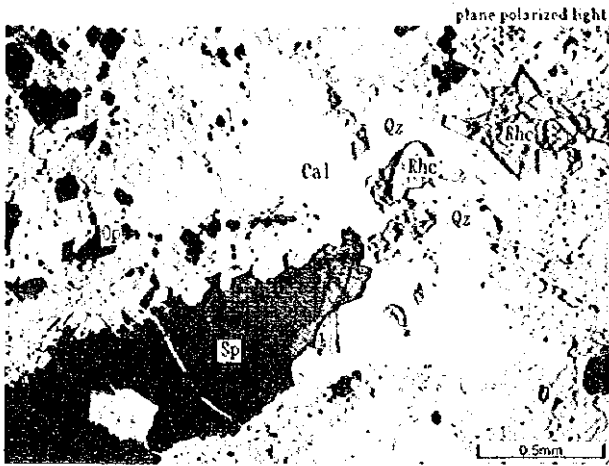
60 - 5 - 10



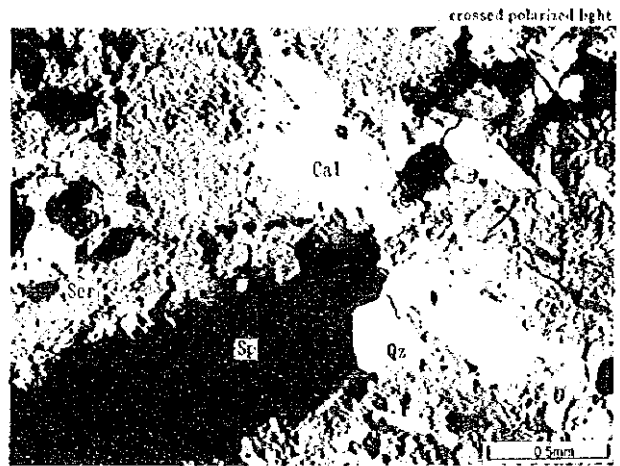
60 - 5 - 10



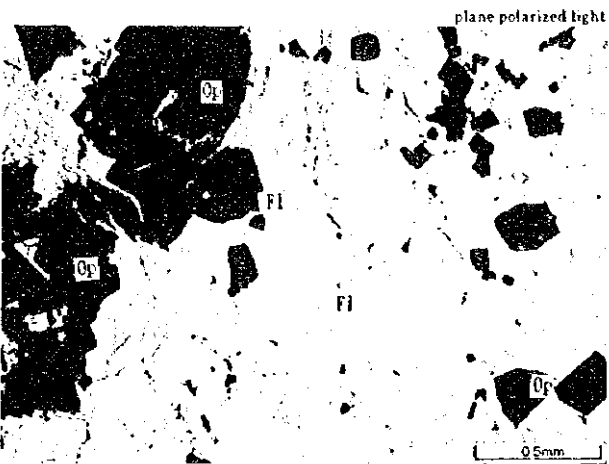
17 - 25.1



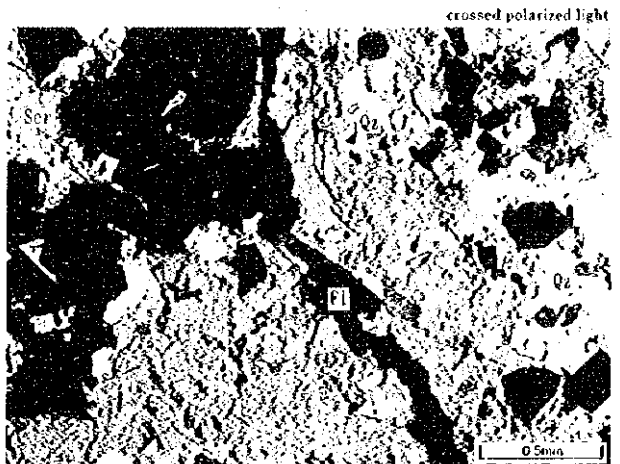
17 - 25.1



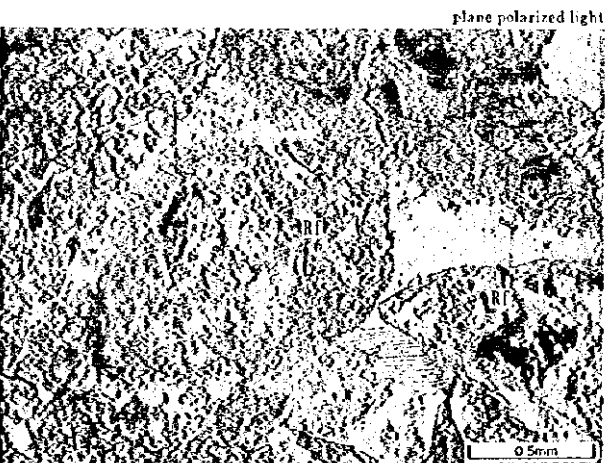
17 - 25.1



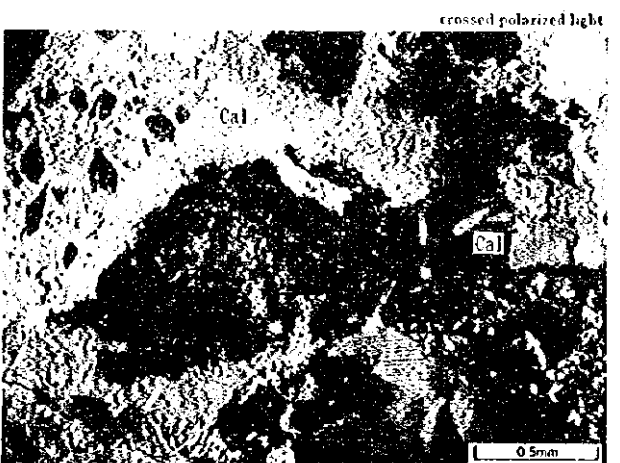
17 - 25.1



19 - 9.3

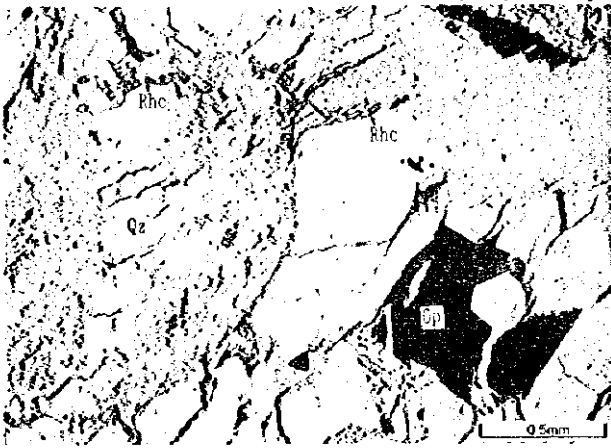


19 - 9.3



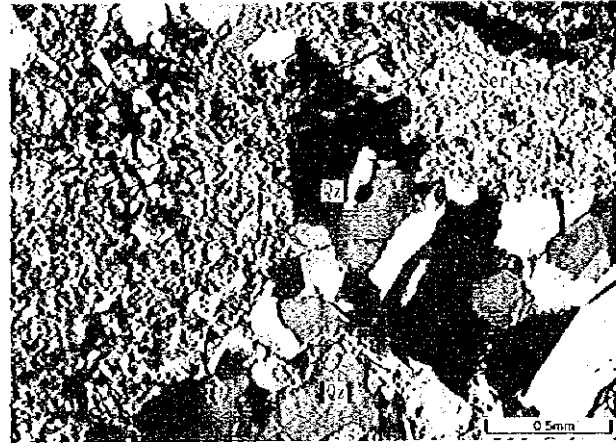
19 - 24.6

plane polarized light



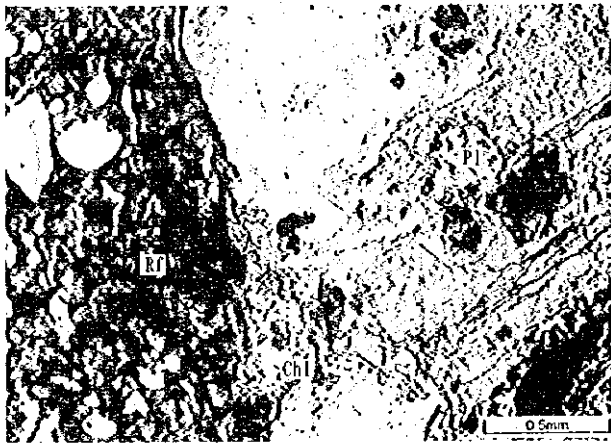
19 - 24.6

crossed polarized light



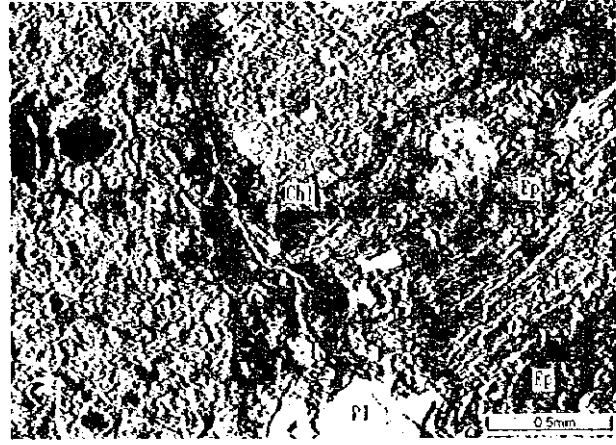
20 - 9.0

plane polarized light



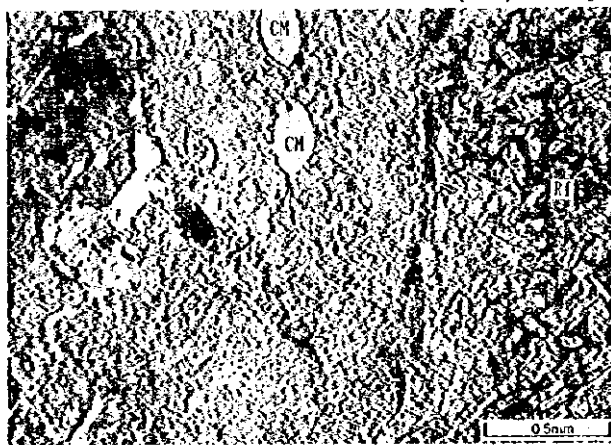
20 - 9.0

crossed polarized light



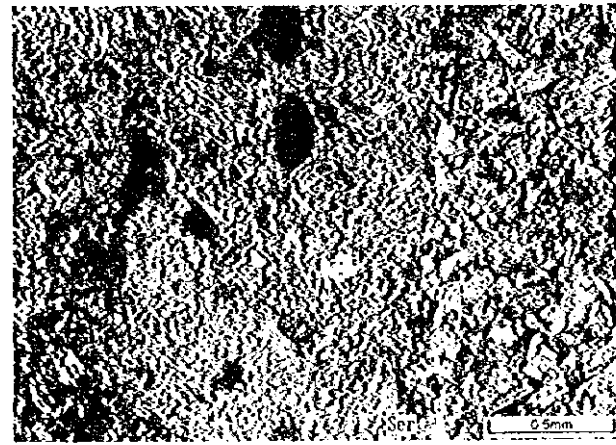
21 - 36.0

plane polarized light



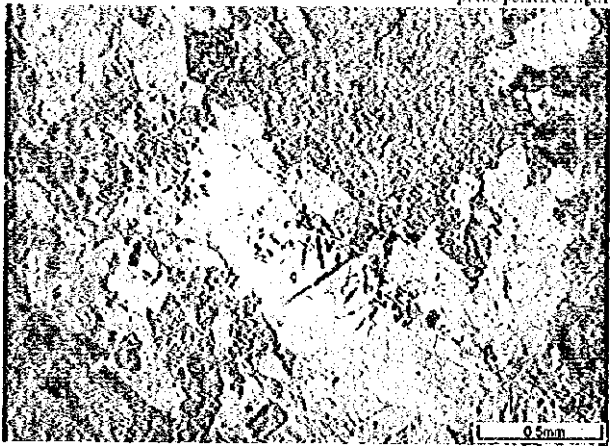
21 - 36.0

crossed polarized light



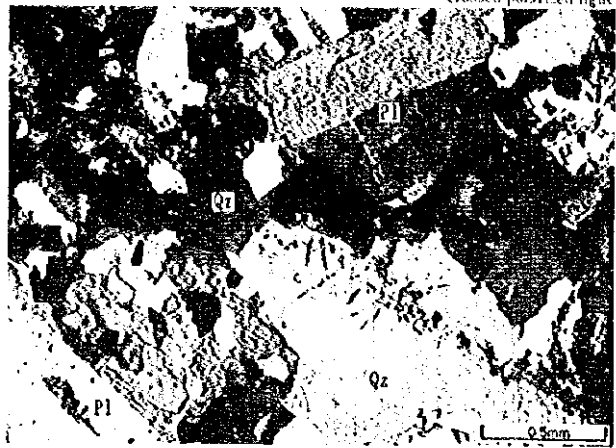
22 - 21.6

plane polarized light



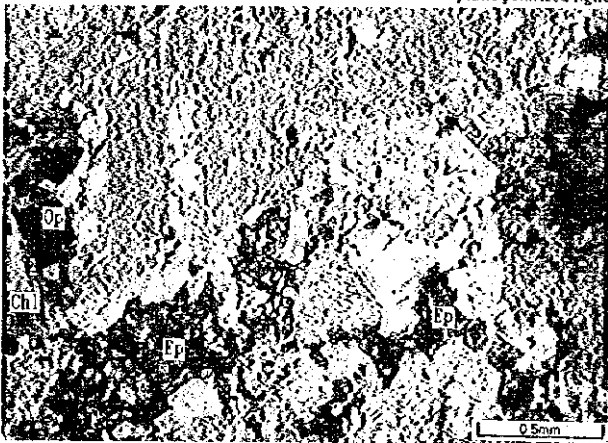
22 - 21.6

crossed polarized light



24 - 16.3

plane polarized light



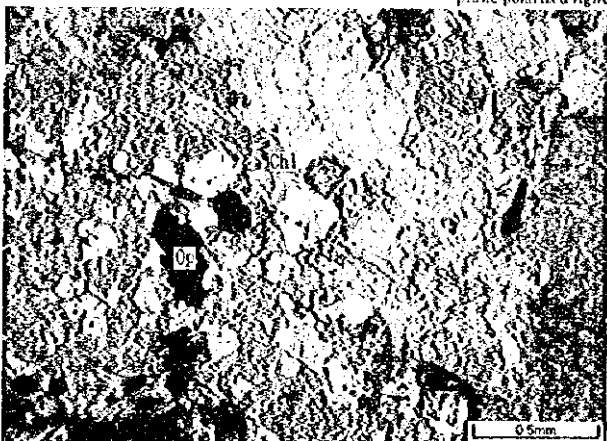
24 - 16.3

crossed polarized light



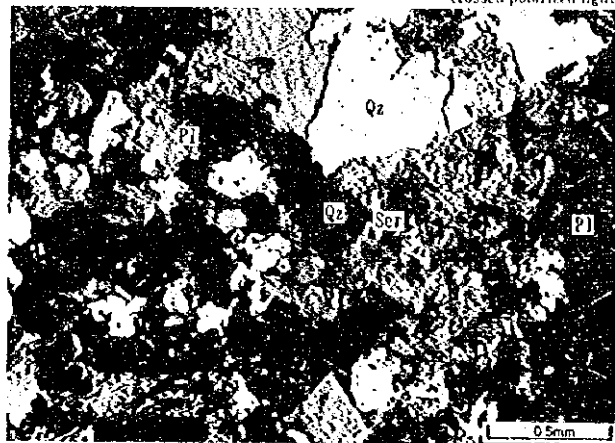
26 - 17.8

plane polarized light

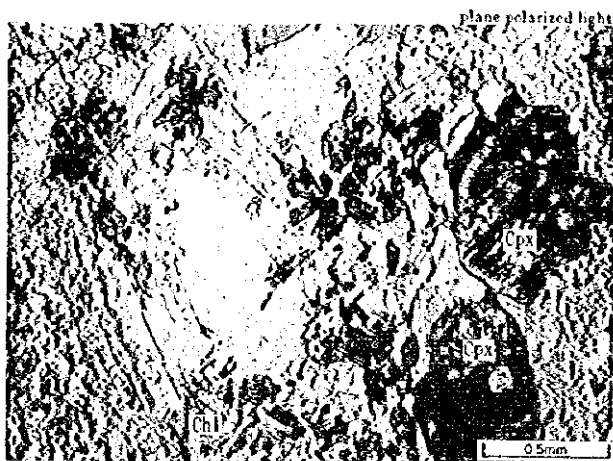


26 - 17.8

crossed polarized light



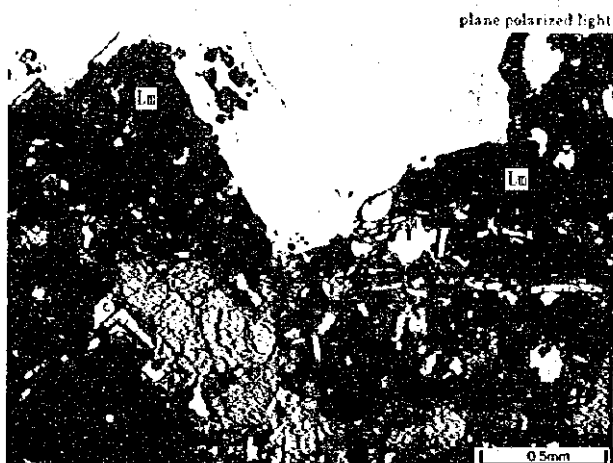
27 - 17.5



27 - 17.5



27 - 25.3



27 - 25.3



Apx. 16 Observation Results of the Polished Section

Legend

- ⊙ abundant → altered to
or altered from
- common
- △ rare
- very rare

Abbreviations

- | | | | |
|-----------|----------------|--------|---------------|
| • aggr | : aggregate | • p | : partly |
| • anh | : anhedral | • porp | : porphyritic |
| • brec | : brecciated | • surr | : surrounding |
| • carb | : carbonate | • vlet | : veinlet |
| • diss | : disseminated | • w/ | : with |
| • enh | : enhedral | • mas | : massive |
| • inclus: | inclusion | | |



Sample No.	Rock Name	Pyrite Py	Sphalerite Sp	Galena Gn	Chalcopyrite Cp	Electrum El	Tetrahedrite Td	Polibasicite Ps	Native Silver Ag	Chalcosite Cc	Covellite Cv	Cerussite Ce	In oxide In	Goethite Gt	Marcasite Ms	Remarks	
60-5-1	Silicified granodiorite	△ 0.01-2 euh-anh diss	△ 0.001-1 in Qz Carb vlet w/Cp dot	△ 0.001-1 in Qz Carb vlet	△ In Sp as inclus					w/Cp						Thin section	
60-5-3	Quartz-Carbonate vein w/Pb, Zn ore	○ euh-anh diss	⊙	○	△ diss in crack of Sp		* 0.01-0.06 in Gn w/Cp	* 0.01-0.03 in Gn							△ →Py		Sp is megascopically brown to light brown. Thin section
60-5-5	Quartz-Carbonate vein w/Pb, Zn ore	○ euh-anh diss p. in Cp	⊙	△ w/Cp	⊙ in crack of Sp		* 0.02-0.03 w/Cp		* 0.003-0.015 in Py	* surr Cp in crack	* surr Cp in crack			△ →Py	△ →Py		Sp is megascopically brown to light brown.
60-5-6	Quartz-Carbonate vein w/Pb, Zn ore	○ 0.001-0.5 euh-anh aggr-diss	○ p. w/Cp dot porp-diss	○ porp-diss	△ diss surr Py in Sp as dot in crack of Sp		w/Cp in Sp as vlet								△ →Py		
60-5-7	Silicified granodiorite	○ euh-anh diss-aggr	△ in Qz vlet porp-diss	△ in Qz vlet porp-diss	In Sp as inclus												Sp related with carbonitization has not Cp inclusion. Thin section
60-5-8	Quartz-Carbonate vein w/Zn, Cp ore	△ 0.001-0.5 euh-anh diss	⊙ mas-diss	* w/Cp, Sp	○ porp-diss p. surr Sp in crack	* 0.015-0.033 w/Sp	* w/Cp			* surr Cp							Sp is megascopically brown to light yellowish brown.
60-5-9	Silicified granodiorite	○ 0.01-0.6 euh-anh diss-aggr	△ in Qz Carb vlet p. w/Cp dot porp-p. diss	△ in Qz Carb vlet porp-p. diss	* 0.01-0.05 in Sp, Gn as dot												Ti-oxide is observed.
15-15.0	Quartz-Carbonate vein w/Pb, Zn ore	△ 0.001-0.15 euh-anh aggr-diss	⊙ mas-diss	⊙ mas-diss →p. Ce	△ diss		* 0.02-0.05 in Gn	* 0.02-0.05 in Gn		* surr Cp, Sp in crack	* surr Cp, Sp in crack	△ surr Gn in crack					Sp is megascopically brown to olive brown.
15-15.2	Quartz-Carbonate vein w/Pb, Zn ore	△ euh-anh aggr-diss	○ mas-diss p. brecc	⊙ mas-diss →p. Ce p. brecc	△ diss		* 0.02-0.05 in Gn	* 0.02-0.05 in Gn		* surr Cp, Sp in crack	* surr Cp, Sp in crack	△ surr Gn in crack					Sp is megascopically brown to olive brown.
17-19.85	Silicified rock with Qz network	⊙ 0.01-0.5 euh-anh aggr-diss	△ in Qz Carb vlet w/Cp dot	○ in Qz Carb vlet	* In Sp as inclus		* 0.005-0.008 in Gn	* 0.005-0.008 in Gn									Ti-oxide is abundant.
17-25.1	Silicified rock with Qz network	○ 0.001-0.5 euh-anh aggr-diss	△ in Qz Carb vlet w/Cp dot diss	△ in Qz Carb vlet diss	* diss in Sp as inclus												Sp is megascopically dark brown to reddish brown. Thin section
19-24.6	Silicified rock with Qz network	○ 0.001-0.5 euh-anh aggr-diss	△ in Qz Carb vlet w/Cp dot porp-diss	△ in Qz Carb vlet porp-diss	* in Qz Carb vlet porp-diss		* w/Cp, Cc			* surr Cp	* surr Cp						Thin section
20-32.3	Quartz-Carbonate vein w/Zn ore	△ euh-anh diss	⊙ mas w/Cp dot p. brecc	△ diss	△ 0.001-0.3 diss in Sp as dot	* in crack of Sp				* surr Cp in crack of Sp	* surr Cp in crack of Sp						Sp is megascopically dark brown to reddish brown.
21-30.0	Quartz vein w/Ossan	euh →Gt											⊙ porp-fibrous laminated w/Gt	⊙ →Py			
25-30.5	Quartz vein w/Ossan	△ euh diss →Gt											⊙ porp-vlet fibrous	○ →Py			



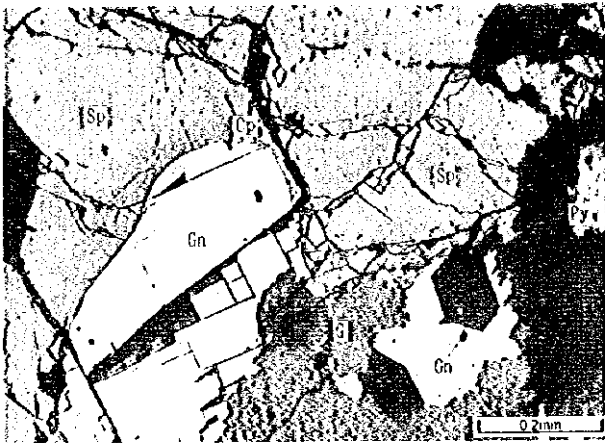
Apx. 17 Photomicrographs of the Polished Section

Abbreviations

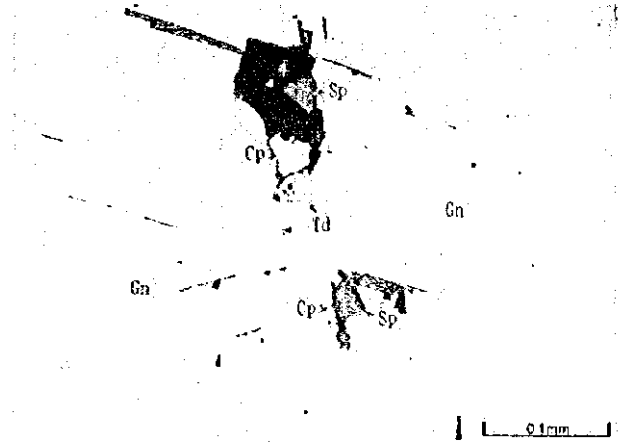
• Ag	:	Native Silver
• Cc	:	Chalcocite
• Ce	:	Cerussite
• Cp	:	Chalcopyrite
• Cv	:	Covellite
• El	:	Electrum
• Fe	:	Fe-oxide
• G	:	Gangue
• Gn	:	Galena
• Mn	:	Mn-oxide
• Py	:	Pyrite
• Sp	:	Sphalerite
• Td	:	Tetrahedrite



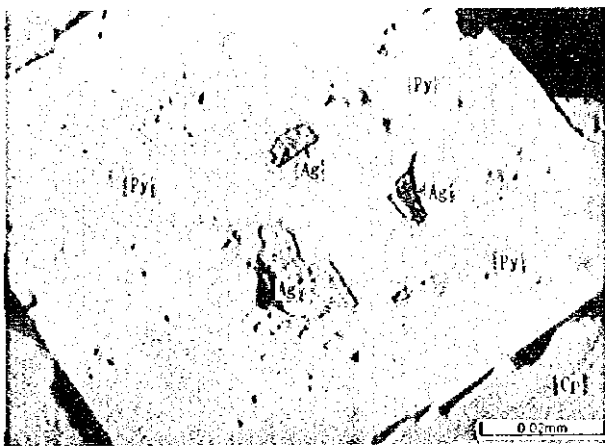
60-5-1



60-5-3



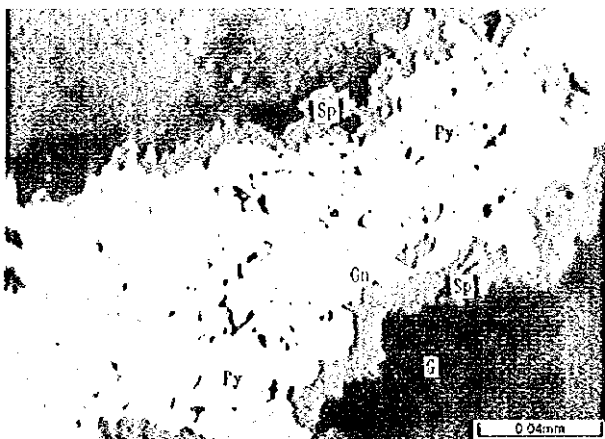
60-5-5



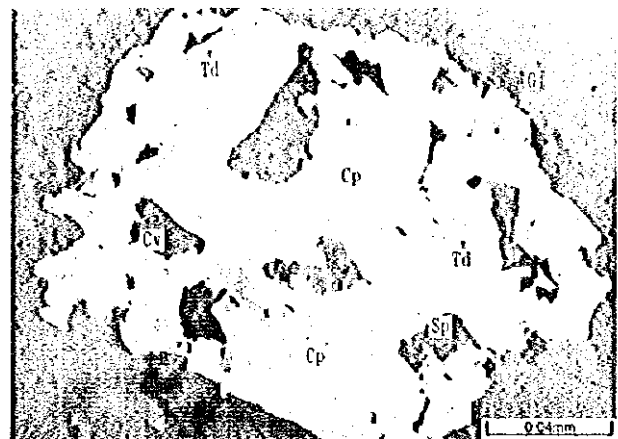
60-5-6



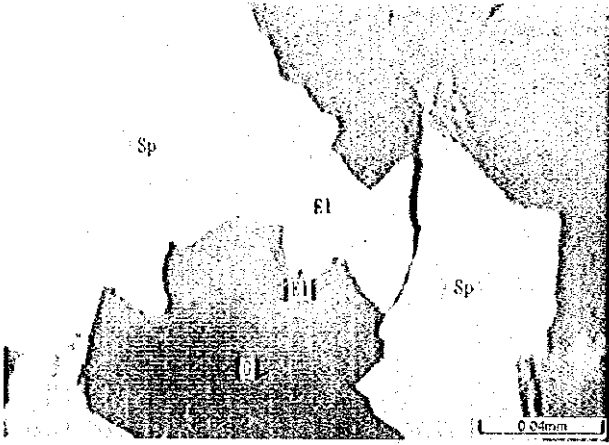
60-5-7



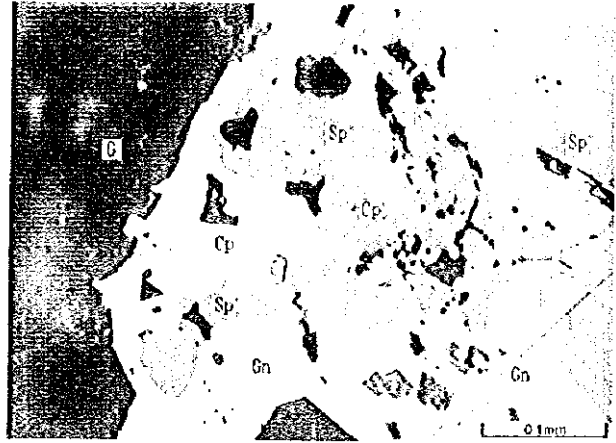
60-5-8



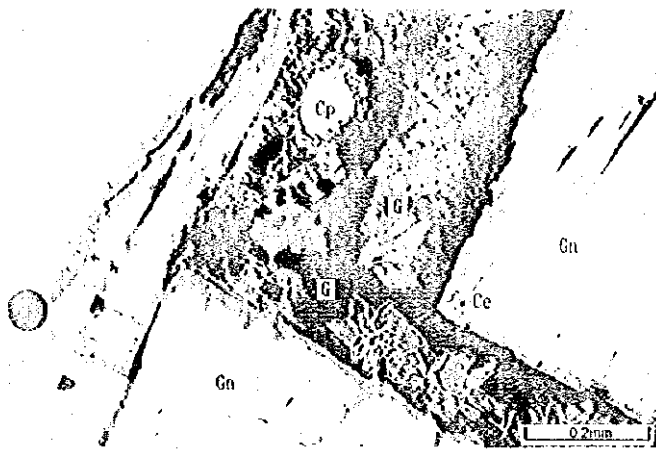
60-5-8



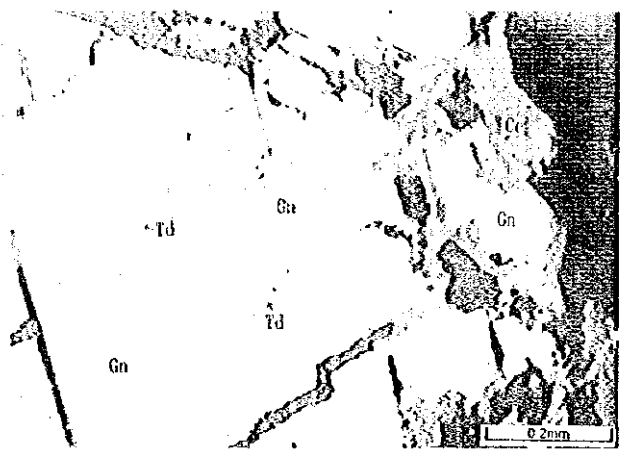
60-5-9



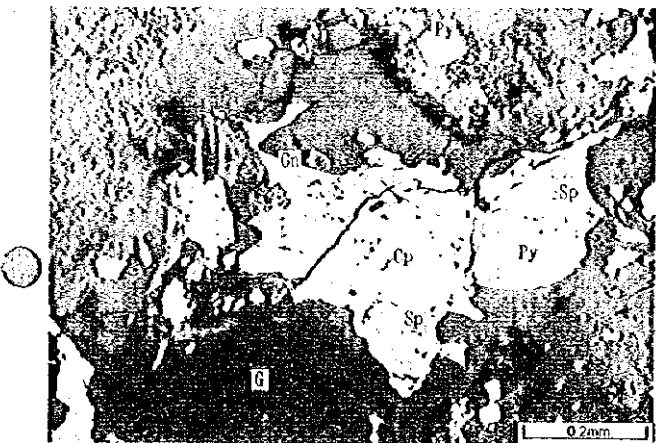
15 - 15.0



15 - 15.2



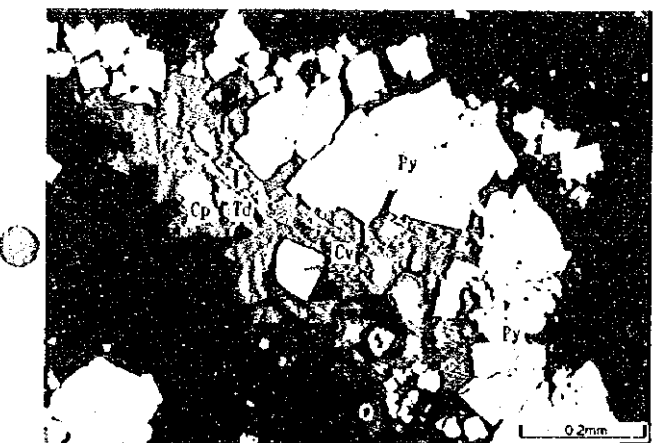
17 - 25.1



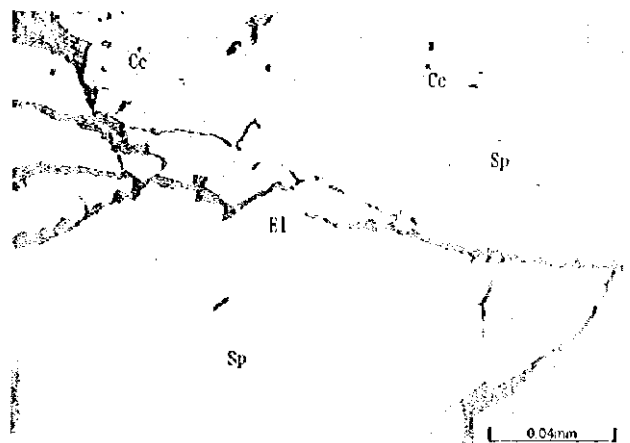
17 - 19.85



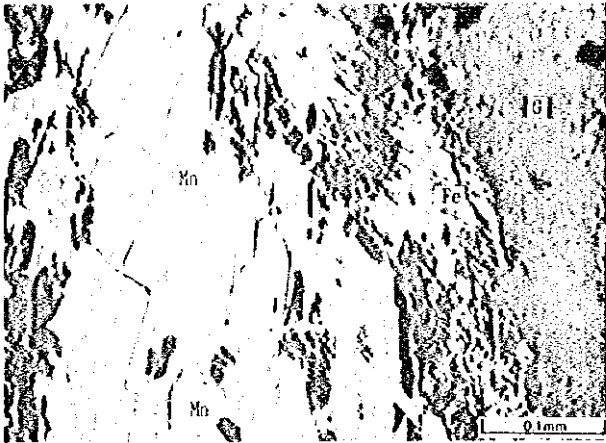
19 - 24.6



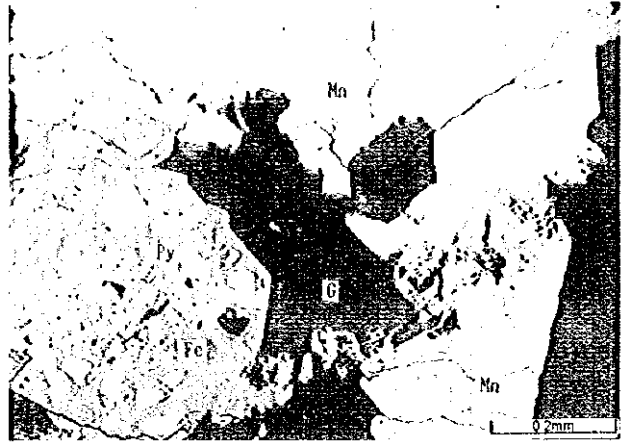
20 - 32.3



21 - 30.0



25 - 30.5



Apx. 18 Ore Reserve Estimation

- 18- 1 Detail Of the Ore Reserve Estimation (Proved and Probable)
- 18- 2 Detail Of the Ore Reserve Estimation (Possible)
- 18- 3 Location Map of Profiles of the Ore reserve Estimation
- 18- 4 Profile of the Ore Reserve Estimation of No.1 Vein
- 18- 5 Profile of the Ore Reserve Estimation of No.1A Vein
- 18- 6 Profile of the Ore Reserve Estimation of No.1B Vein
- 18- 7 Profile of the Ore Reserve Estimation of No.2 Vein
- 18- 8 Profile of the Ore Reserve Estimation of No.2A Vein
- 18- 9 Profile of the Ore Reserve Estimation of No.2B Vein
- 18-10 Profile of the Ore Reserve Estimation of No.2HW Vein
- 18-11 Profile of the Ore Reserve Estimation of No.4 Vein (Main)
- 18-12 Profile of the Ore Reserve Estimation of No.4 Vein (North)
- 18-13 Profile of the Ore Reserve Estimation of No.4A Vein
- 18-14 Profile of the Ore Reserve Estimation of No.6 Vein (North)
- 18-15 Profile of the Ore Reserve Estimation of No.6 Vein (South)
- 18-16 Profile of the Ore Reserve Estimation of No.8 Vein
- 18-17 Profile of the Ore Reserve Estimation of No.8A and 8Fw Veins
- 18-18 Profile of the Ore Reserve Estimation of No.10 Vein

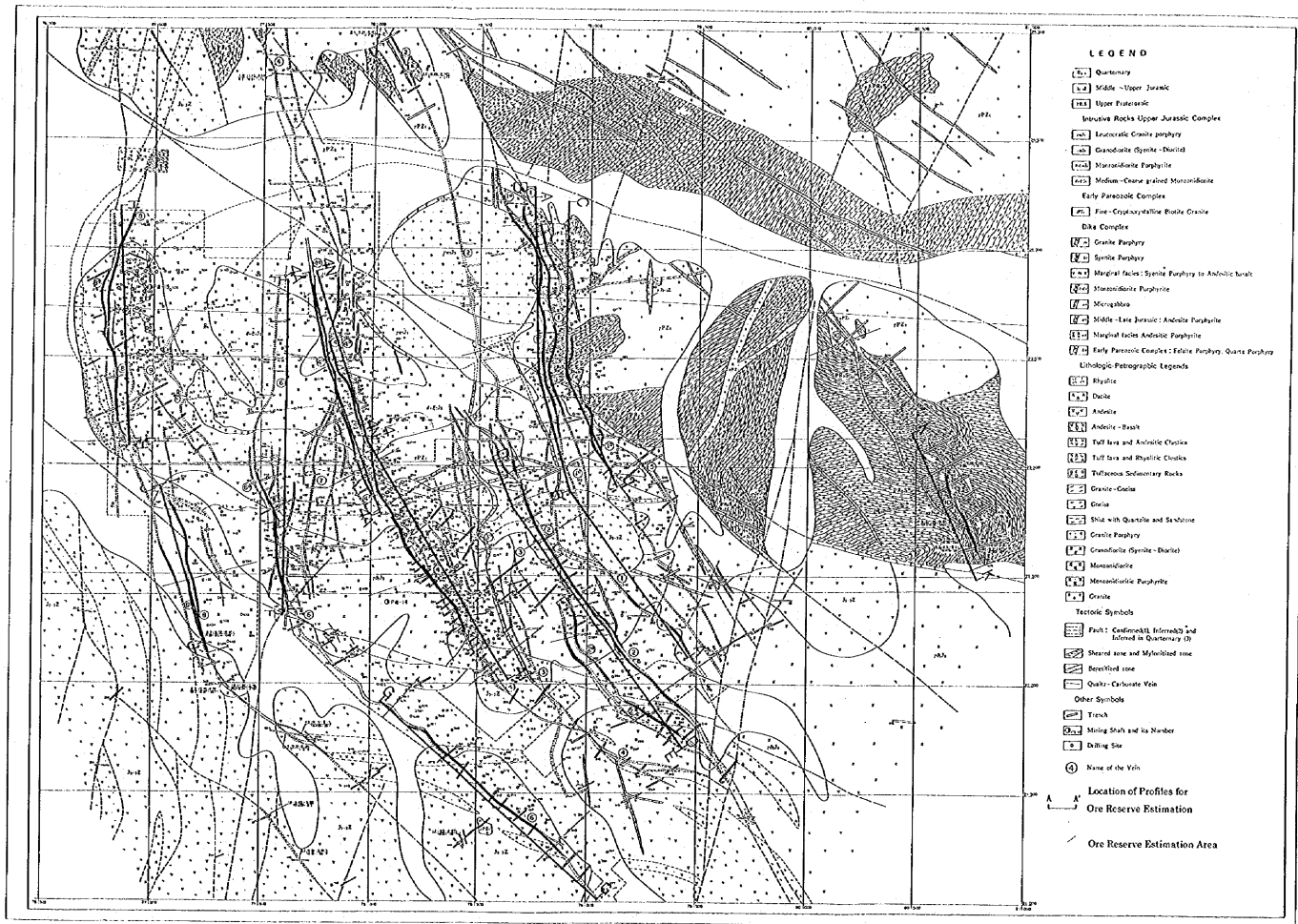


Vein	Block	Area (m ²)		Length (m)		Width (m)	Height (m)	Volume (m ³)	S.G.	Reserve (t)	Grade				Quantity of metal					
		upper	lower	upper	lower						Ag (%)	Pb (%)	Zn (%)	Cu (%)	Ag (kg)	Pb (kg)	Zn (t)	Cu (t)		
Proved ore reserve	No. 4	181	182.0	97.0	101.5	1.9	26.5	4,293.0	3.1	11,398	1.32	32.41	6.11	1.51	17,116.68	7,233.63	1,758.90	2,011.30	31.62	
		182	186.0	101.5	71.0	0.8	26.5	4,293.0	3.1	11,398	1.32	32.41	6.11	1.51	17,116.68	7,233.63	1,758.90	2,011.30	31.62	
		183	150.0	83.3	52.5	68.0	1.3	26.5	2,255.3	3.1	7,024	1.01	102.83	8.14	0.44	20,428.94	9,747.48	371.96	99.19	14.91
		184	16.0	12.0	87.5	29.0	0.8	26.5	426.3	3.1	1,097	1.01	102.83	8.14	0.44	20,428.94	9,747.48	371.96	99.19	14.91
		185	20.0	12.0	87.5	29.0	0.8	26.5	426.3	3.1	1,097	1.01	102.83	8.14	0.44	20,428.94	9,747.48	371.96	99.19	14.91
		186	19.0	12.0	87.5	29.0	0.8	26.5	426.3	3.1	1,097	1.01	102.83	8.14	0.44	20,428.94	9,747.48	371.96	99.19	14.91
		187	19.0	12.0	87.5	29.0	0.8	26.5	426.3	3.1	1,097	1.01	102.83	8.14	0.44	20,428.94	9,747.48	371.96	99.19	14.91
		188	19.0	12.0	87.5	29.0	0.8	26.5	426.3	3.1	1,097	1.01	102.83	8.14	0.44	20,428.94	9,747.48	371.96	99.19	14.91
		189	19.0	12.0	87.5	29.0	0.8	26.5	426.3	3.1	1,097	1.01	102.83	8.14	0.44	20,428.94	9,747.48	371.96	99.19	14.91
		190	19.0	12.0	87.5	29.0	0.8	26.5	426.3	3.1	1,097	1.01	102.83	8.14	0.44	20,428.94	9,747.48	371.96	99.19	14.91
total		1,329	1,329.0	712.0	712.0	1.9	151.5	14,222.3	3.1	41,322	1.25	85.31	6.60	1.81	87,352.20	3,821.03	2,100.00	2,500.00	51.24	

Vein	Level	Block	Area (m ²)		Length (m)		Width (m)	Height (m)	Volume (m ³)	S.G.	Reserve (t)	Grade				Quantity of metal				
			upper	lower	upper	lower						Ag (%)	Pb (%)	Zn (%)	Cu (%)	Ag (kg)	Pb (kg)	Zn (t)	Cu (t)	
Probable ore reserve	No. 4	trench	1	21	25.5	0.8	25.5	287.8	3.1	850	2.45	109.26	8.20	0.83	0.35	2,041.55	90.74	68.80	5.55	2.91
			2	80	51.5	1.5	28.5	1,182.6	3.1	3,418	2.20	230.45	13.29	2.90	0.55	8,433.01	818.43	497.28	106.33	20.17
			3	28	28.0	0.8	23.0	287.5	3.1	891	4.90	99.77	7.44	0.13	0.15	4,587.13	88.92	68.31	1.15	1.34
			7	11	17.0	0.6	11.0	93.5	3.1	290	3.73	261.85	10.77	0.10	0.24	1,081.14	75.90	31.27	0.27	0.10
			8	2	7.0	0.3	7.0	7.0	3.1	22	0.54	43.56	3.90	0.06	0.40	11.77	0.95	0.66	0.04	0.13
			9	7	10.0	0.7	10.0	35.9	3.1	109	1.36	37.41	3.93	0.15	0.24	145.39	4.06	2.14	0.14	0.28
			10	33	43.0	0.7	23.5	364.3	3.1	1,122	2.96	138.50	13.51	0.17	0.12	3,342.35	156.41	152.55	1.92	1.63
			11	16	23.0	0.7	23.0	184.0	3.1	570	2.02	134.88	11.87	0.23	0.14	1,152.21	76.34	67.71	1.31	0.80
			12	11	23.0	0.4	23.5	129.3	3.1	401	1.47	93.00	5.88	0.17	0.05	588.93	37.26	23.56	0.68	0.20
			13	3	8.5	0.4	8.5	12.8	3.1	40	2.75	141.86	6.08	0.14	0.10	188.67	5.84	2.40	0.65	0.04
14	9	10.0	0.9	10.0	48.9	3.1	140	2.28	246.43	8.60	0.11	0.07	318.06	34.38	12.00	0.15	0.10			
15	4	8.0	0.5	8.0	16.0	3.1	50	1.00	95.50	9.97	0.15	0.09	59.59	2.90	1.47	0.06	0.04			
16	10	10.0	0.8	10.0	30.0	3.1	93	0.65	124.89	4.05	0.12	0.14	60.45	11.81	3.77	0.11	0.13			
17	5	12.0	0.4	12.0	30.0	3.1	93	4.21	128.44	7.68	0.11	0.11	391.53	11.84	7.14	0.10	0.10			
18	3	8.0	0.4	8.0	12.0	3.1	37	1.04	302.67	22.76	0.03	0.00	38.69	11.29	11.81	0.02	0.02			
total		237	293.5	0.8	22.8	2,636.8	3.1	8,260	2.65	164.34	11,223	1.43	0.20	22,113.11	1,457.45	935.15	119.23	28.40		
No. 4	trench	3	100	90.0	1.1	23.5	1,115.6	3.1	3,418	1.72	175.68	8.20	5.55	0.28	4,079.60	653.73	298.67	218.73	20.10	
		4	24	33.0	0.8	23.5	305.5	3.1	947	1.03	85.15	1.49	0.21	0.14	915.46	80.64	14.11	11.46	1.39	
		11	19	20.0	1.0	19.0	55.0	3.1	295	4.40	2.67	0.45	0.28	0.06	1,295.89	0.79	1.33	0.77	0.38	
		12	20	50.0	0.4	10.0	100.0	3.1	310	5.61	0.01	0.43	0.10	0.05	1,339.10	0.05	0.31	0.15	0.16	
		subtotal		185	193.0	0.5	20.0	1,615.5	3.1	5,194	1.56	135.45	6.67	4.43	0.23	5,659.56	719.10	315.52	223.28	17.30
		5	125	105.0	1.2	20.6	1,690.0	3.1	5,199	1.56	135.45	6.67	4.43	0.23	5,659.56	719.10	315.52	223.28	17.30	
		7	100	90.0	1.1	20.6	1,500.0	3.1	4,650	1.12	175.68	8.20	5.55	0.28	5,203.00	814.12	381.30	276.88	13.52	
		8	30	33.0	0.8	30.0	390.0	3.1	1,209	1.03	85.15	1.49	0.21	0.14	1,245.27	102.99	18.01	14.83	1.49	
		9	125	71.0	1.8	20.0	1,850.0	3.1	3,919	0.83	85.44	7.71	6.78	0.19	3,015.25	331.68	298.74	263.11	13.28	
		10	9	21.0	0.4	10.0	42.0	3.1	124	4.35	22.60	3.19	0.27	0.08	533.20	2.85	3.96	3.11	0.10	
13	4	10.0	0.6	10.0	70.0	3.1	217	5.24	177.23	8.45	6.58	0.86	1,137.03	38.46	18.35	14.28	1.87			
subtotal		354	345.0	1.2	25.8	5,140.0	3.1	15,931	1.43	108.02	5.96	3.97	0.23	22,706.26	1,721.15	948.89	633.24	36.21		
total		589	538.0	1.0	24.2	6,815.5	3.1	21,128	1.45	115.52	5.98	4.06	0.20	30,792.22	2,440.21	1,294.41	962.50	49.11		
No. 4	930m	1	7	15.5	0.5	81.0	108.5	3.1	335	0.84	34.31	3.58	0.20	0.07	283.62	11.54	19.03	27.63	0.23	
		2	16	23.0	0.7	46.0	188.0	3.1	1,141	0.50	84.42	3.50	3.83	0.11	603.53	56.31	39.94	43.73	1.31	
		3	16	35.5	1.2	60.0	1,230.0	3.1	3,813	1.43	319.16	9.10	4.35	0.43	5,460.53	1,216.95	347.05	185.79	16.38	
		4	62	42.0	1.5	60.0	1,860.0	3.1	5,766	0.71	133.58	5.69	6.26	0.39	6,073.04	770.27	328.28	360.76	22.45	
		5	11	18.0	0.6	35.0	198.0	3.1	614	0.84	191.50	6.35	6.69	0.36	514.11	119.40	39.80	46.11	14.11	
		6	31	41.0	0.8	60.0	300.0	3.1	863	0.85	263.28	3.36	3.30	0.31	2,368.34	1,017.27	183.46	99.73	8.83	
		7	63	63.0	0.4	63.0	1,890.0	3.1	5,859	3.15	171.53	3.05	3.13	0.14	18,478.89	1,004.95	178.90	181.42	8.20	
		8	13	13.0	1.0	28.0	169.0	3.1	524	5.04	14.58	0.48	2.32	0.04	280.50	7.61	2.40	12.17	0.21	
		9	37	63.0	1.0	60.0	2,010.0	3.1	6,231	1.90	294.79	6.87	4.57	0.23	12,191.61	1,836.85	426.14	281.80	14.11	
		10	36	32.0	1.1	69.0	1,690.0	3.1	3,348	1.29	459.19	11.50	3.45	0.21	4,412.68	1,597.36	384.90	115.40	7.63	
11	19	18.0	2.2	26.0	702.0	3.1	2,176	2.02	119.63	6.83	3.82	0.11	4,398.51	256.55	146.60	83.13	3.40			
12	34	34.0	1.0	63.0	1,020.0	3.1	3,162	0.78	72.20	3.31	2.63	0.15	2,819.50	228.30	123.63	85.06	4.74			
13	16	22.5	0.7	45.0	360.0	3.1	1,116	0.33	21.49	2.87	1.48	0.08	310.90	30.65	32.05	16.57	0.90			
14	8	17.0	0.5	24.0	135.0	3.1	422	0.69	97.43	5.99	7.22	0.49	232.29	41.00	25.28	33.43	2.68			
15	115	93.5	1.2	69.0	3,490.0	3.1	10,628	1.36	241.23	5.58	7.29	0.55	14,131.53	2,280.03	810.95	773.73	55.37			
total		559	545.0	1.0	18.1	15,511.5	3.1	49,086	1.45	212.60	6.42	4.61	0.31	69,973.25	10,465.54	3,085.62	2,355.71	149.57		
Grand total		1,369	1,373.5	1.0	36.3	20,023.0	3.1	77,974	1.59	185.16	6.83	4.28	0.25	122,901.23	14,483.28	5,288.19	3,307.50	225.84		
No. 4	trench	1	8	20.0	0.4	20.0	80.0	3.1	248	1.04	117.44	5.67	0.11	0.04	257.40	29.12	14.00	0.29	0.11	
		2	113	105.5	1.1	30.0	1,695.0	3.1	5,295	0.70	177.94	11.41	0.51	0.19	3,678.21	534.99	601.15	28.41	3.93	
		3	84	74.5	1.1	30.0	1,260.0													

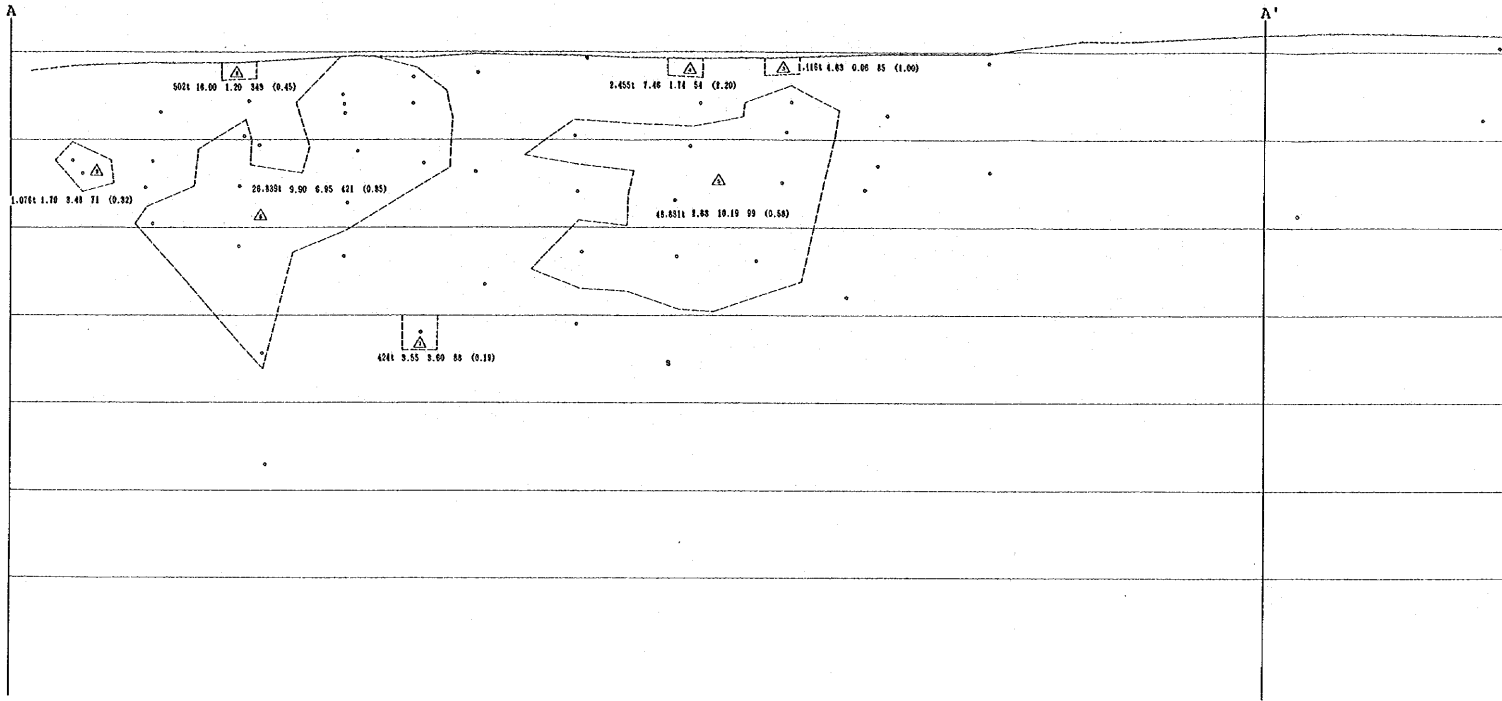







18- 3 Location Map of Profiles of the Ore reserve Estimation

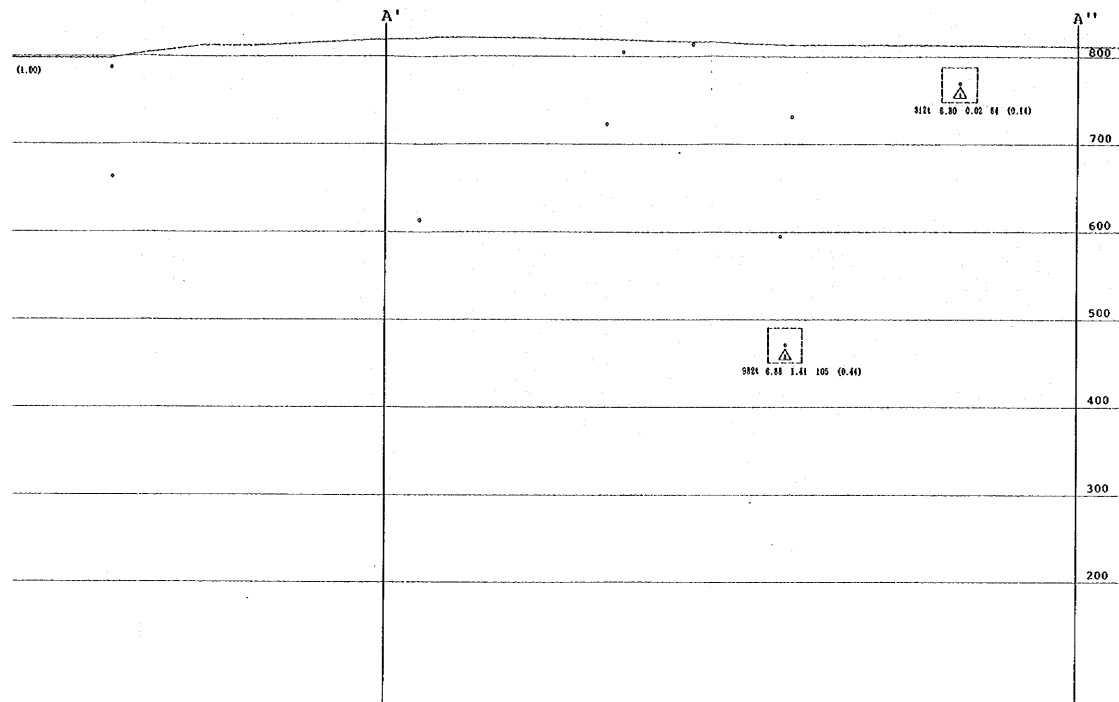




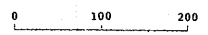
 Possible Reserve

Quantity	Pb %	Zn %	Ag g/L	(width, m)
2,680	2.63	3.18	904	(0.60)

18- 4 Profile of the Oro Reserve Estimation of No.1 Vein

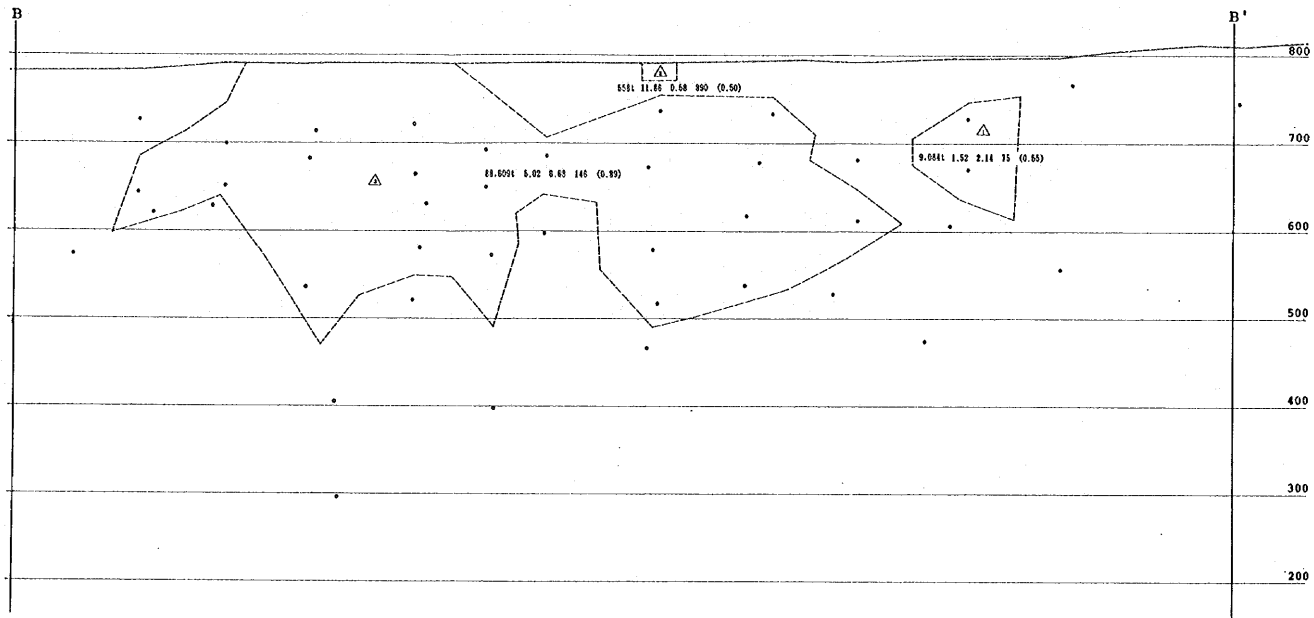



Quantity	Pb %	Zn %	Ag g/t	(width, m)
2,680	2.63	3.18	904	(0.60)



the Ore Reserve Estimation of No.1 Vein



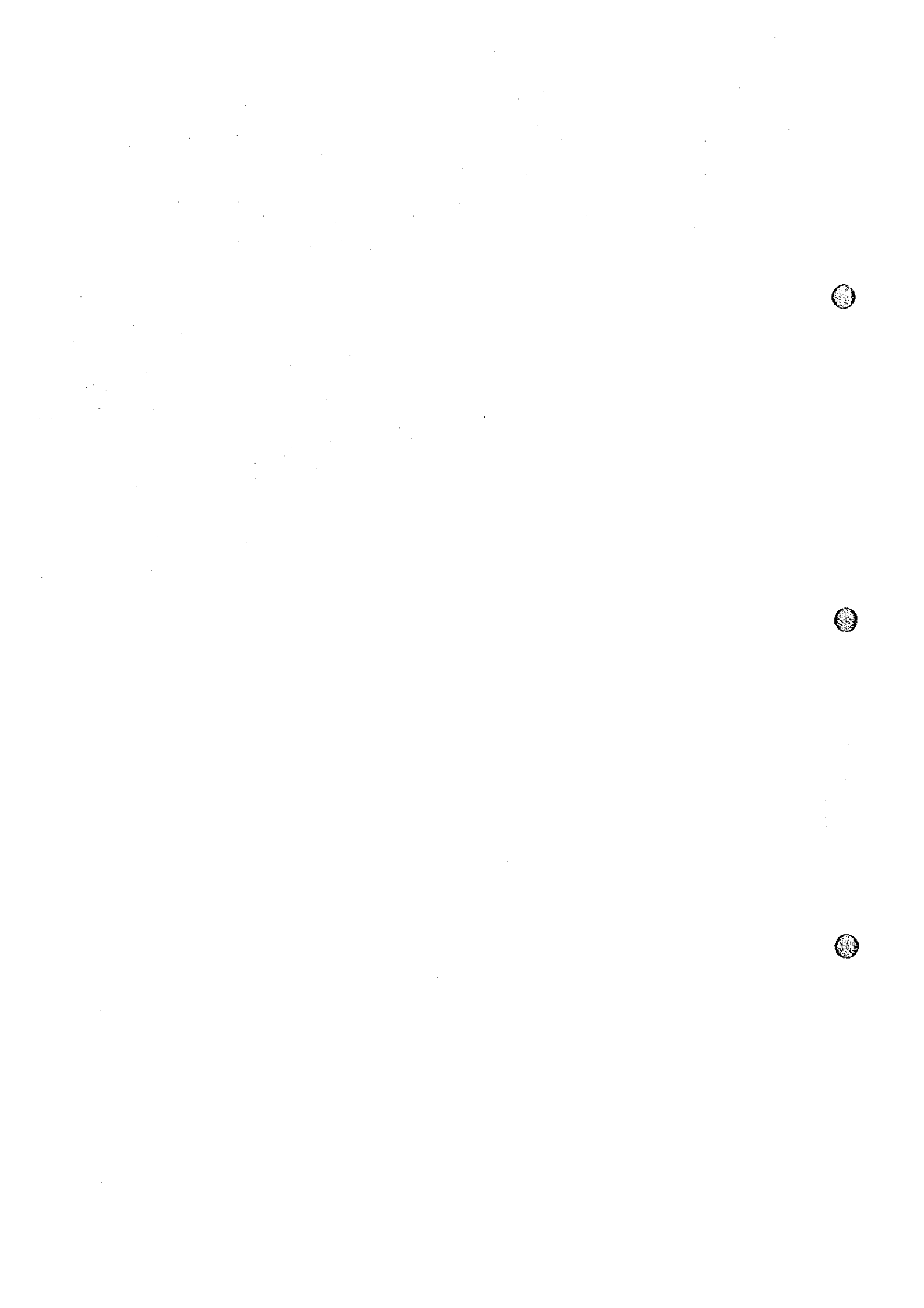


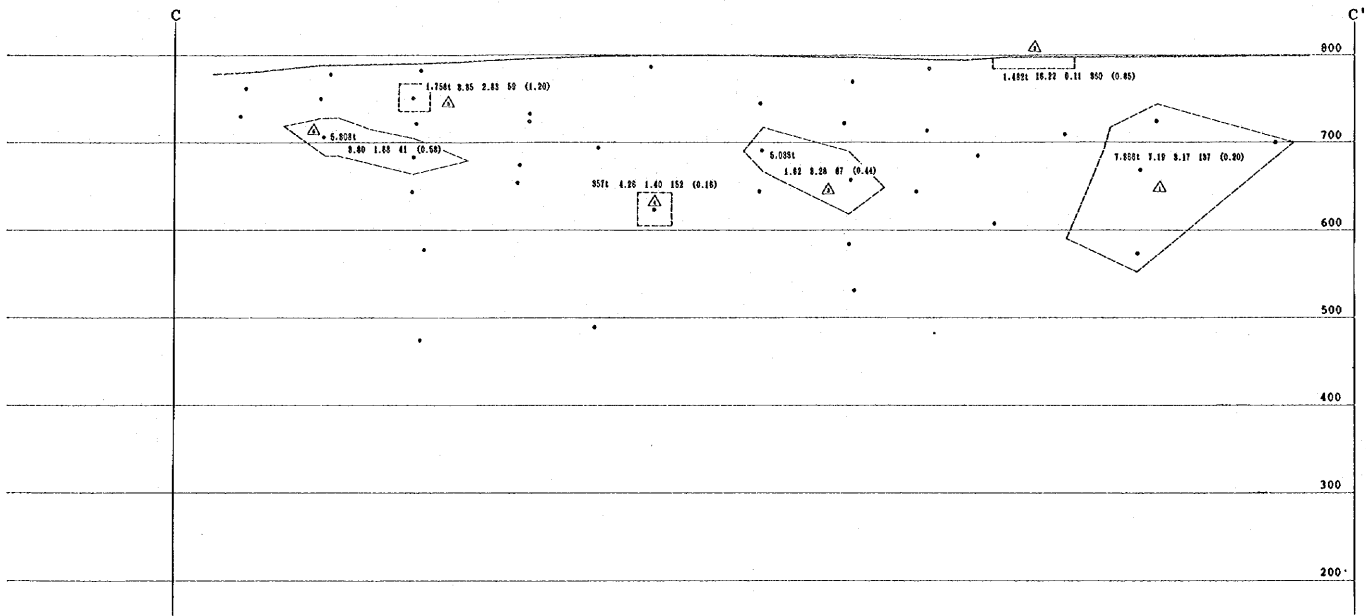
 Possible Reserve

Quantity	Pb %	Zn %	Ag g/L	(width, m)
2,680	2.63	3.18	904	(0.60)

0 100 200

18- 5 Profile of the Ore Reserve Estimation of No.1A Vein





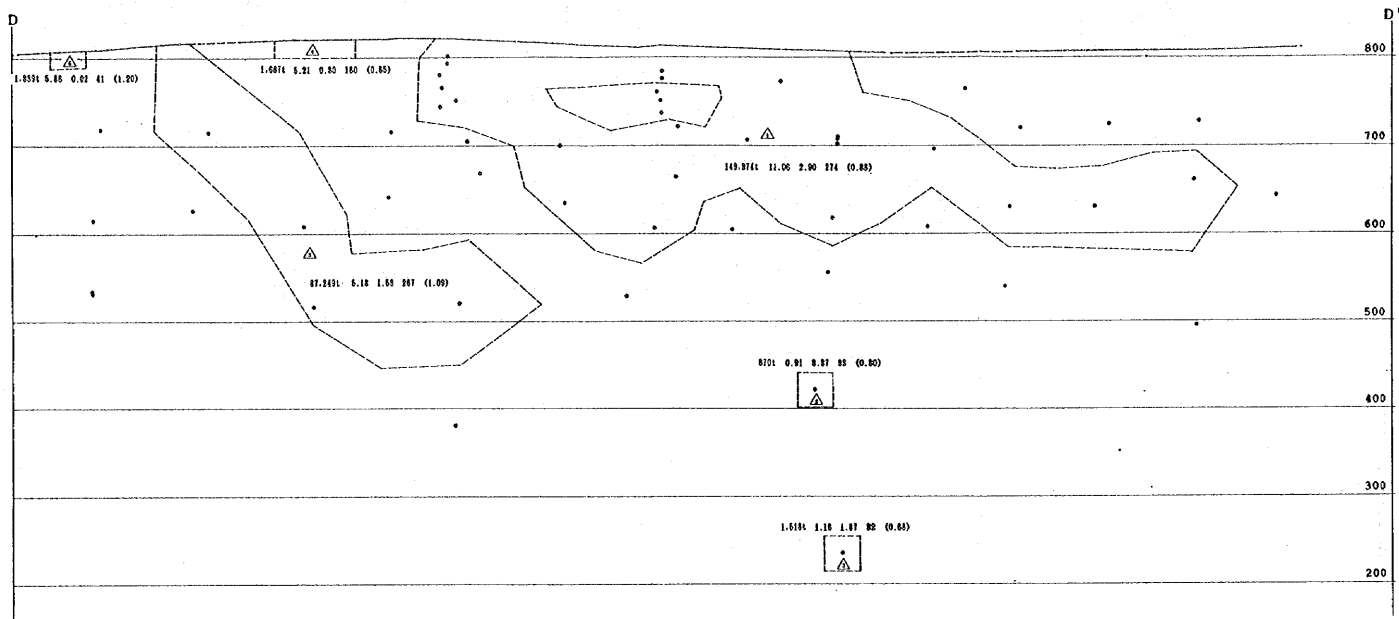
Possible Reserve


Quantity	Pb %	Zn %	Ag g/l	(width, m)
2,680	2.63	3.18	904	(0.60)

0 100 200

18- 6 Profile of the Ore Reserve Estimation of No.18 Vein





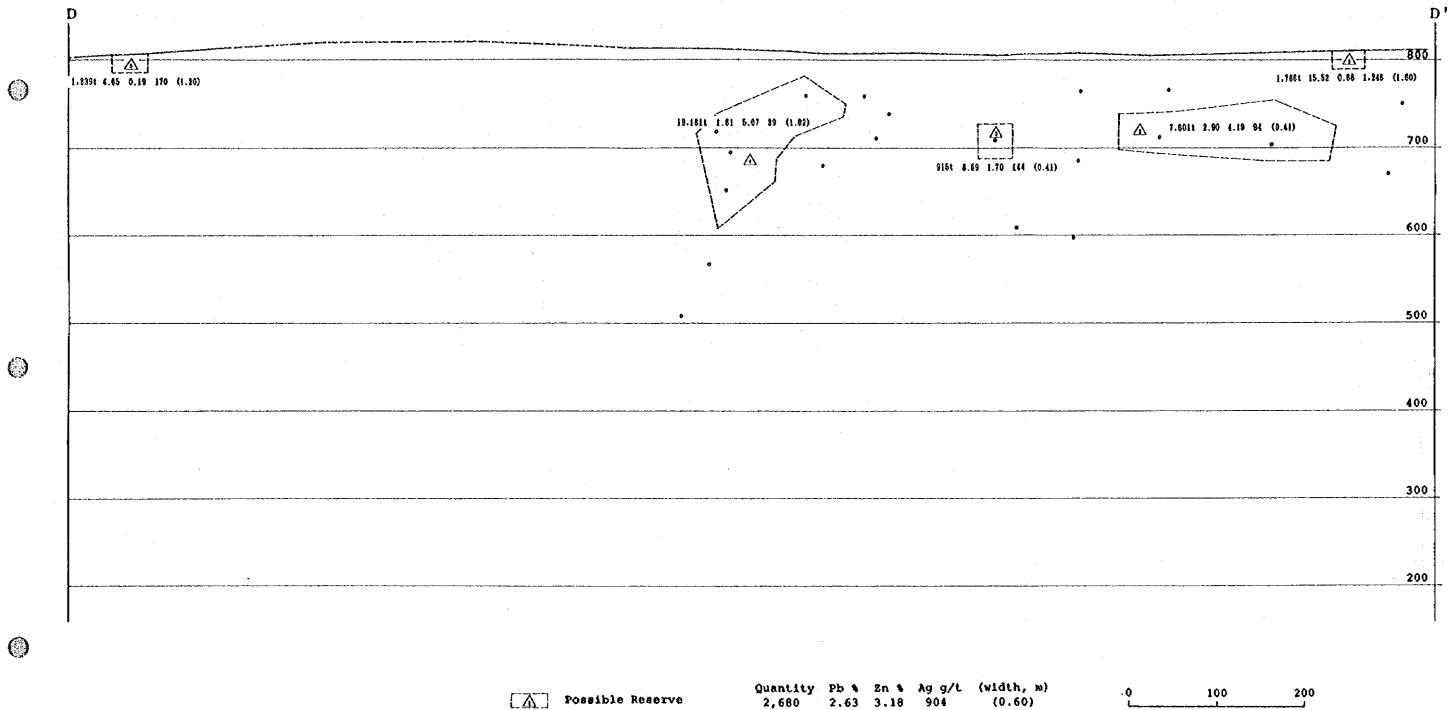
 Possible Reserve

Quantity	Pb %	Zn %	Ag g/t	(width, m)
2,680	2.63	3.18	904	(0.60)

0 100 200

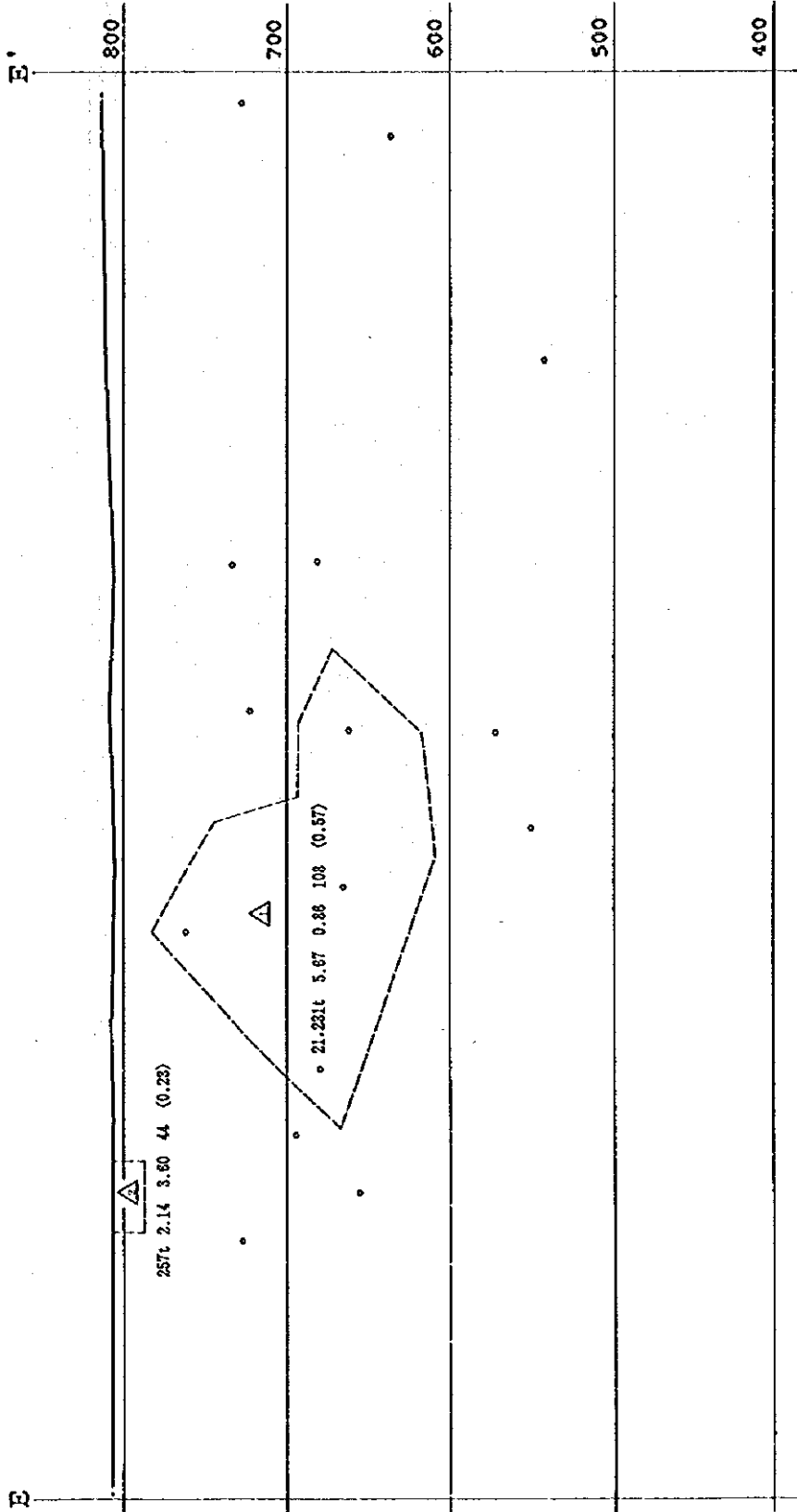
18- 7 Profile of the Ore Reserve Estimation of No.2 Vein






18- 8 Profile of the Ore Reserve Estimation of No.2A Vein

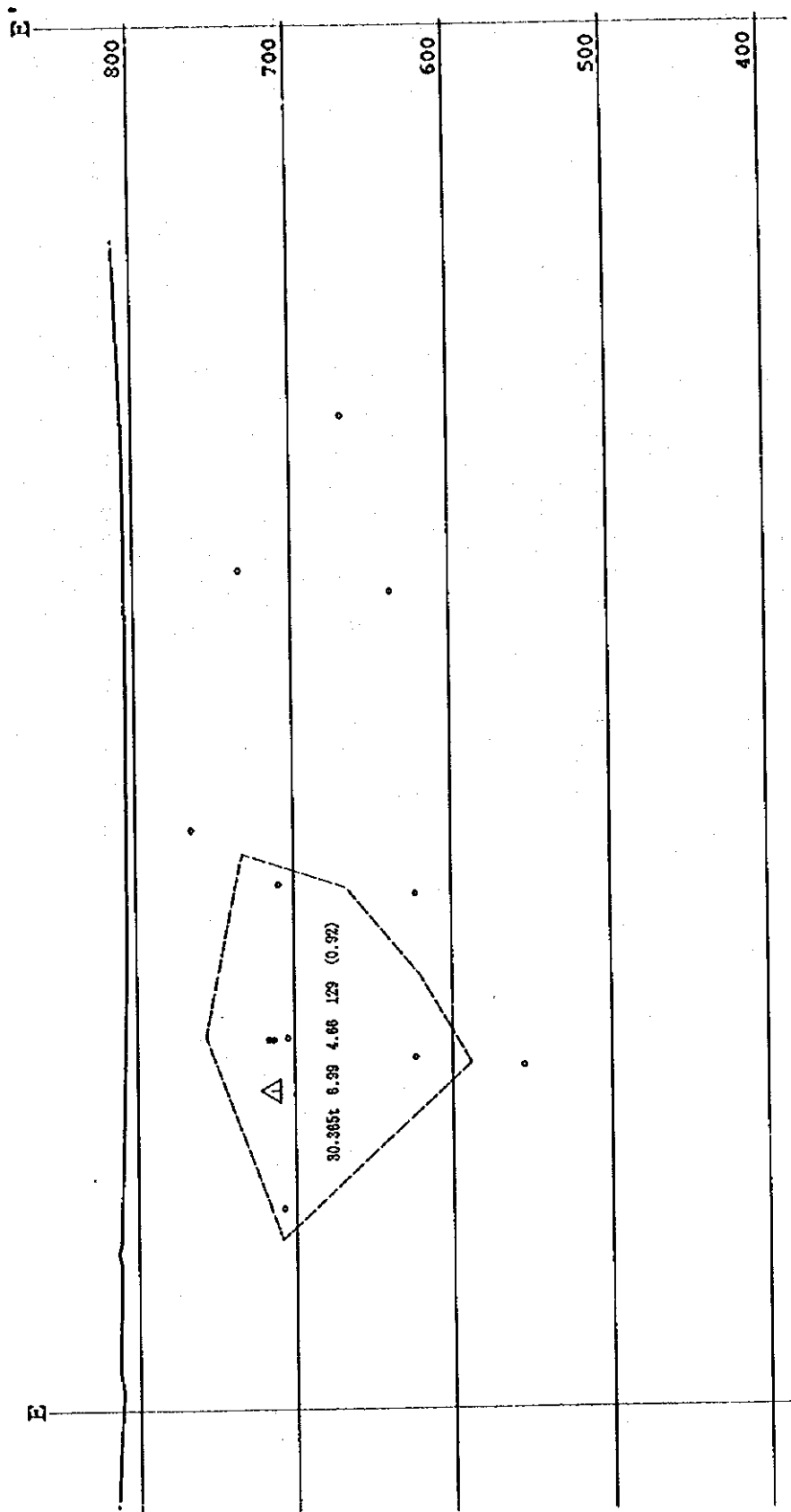




 Possible Reserve

Quantity	Pb %	Zn %	Ag g/t	(width, m)
2,680	2.63	3.18	904	(0.60)

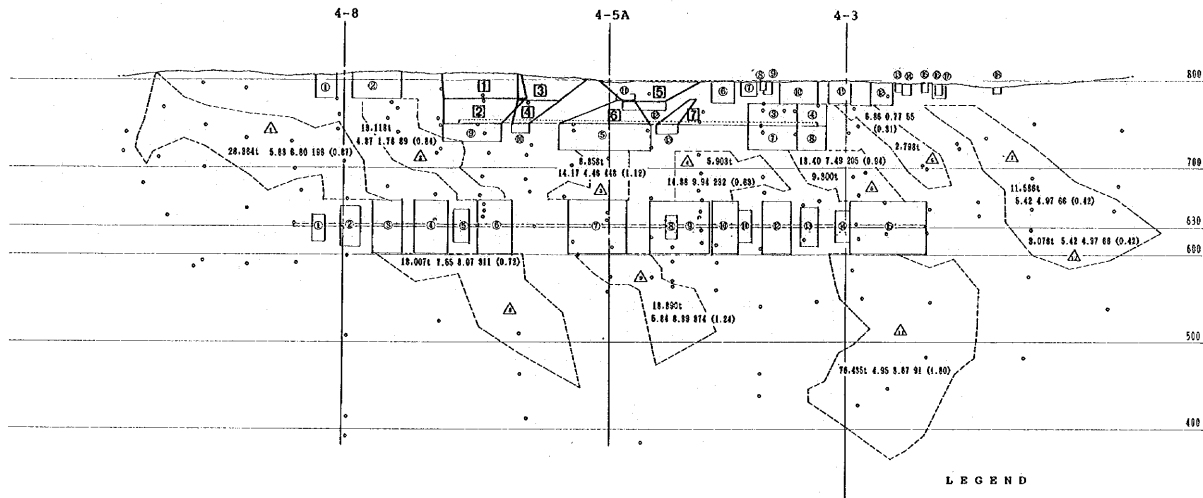
18-9 Profile of the Ore Reserve Estimation of No.2B Vein



△ Possible Reserve

Quantity	Pb %	Zn %	Ag g/t	(width, m)
2,680	2.63	3.18	904	(0.60)

18-10 Profile of the Ore Reserve Estimation of No.2HW Vein

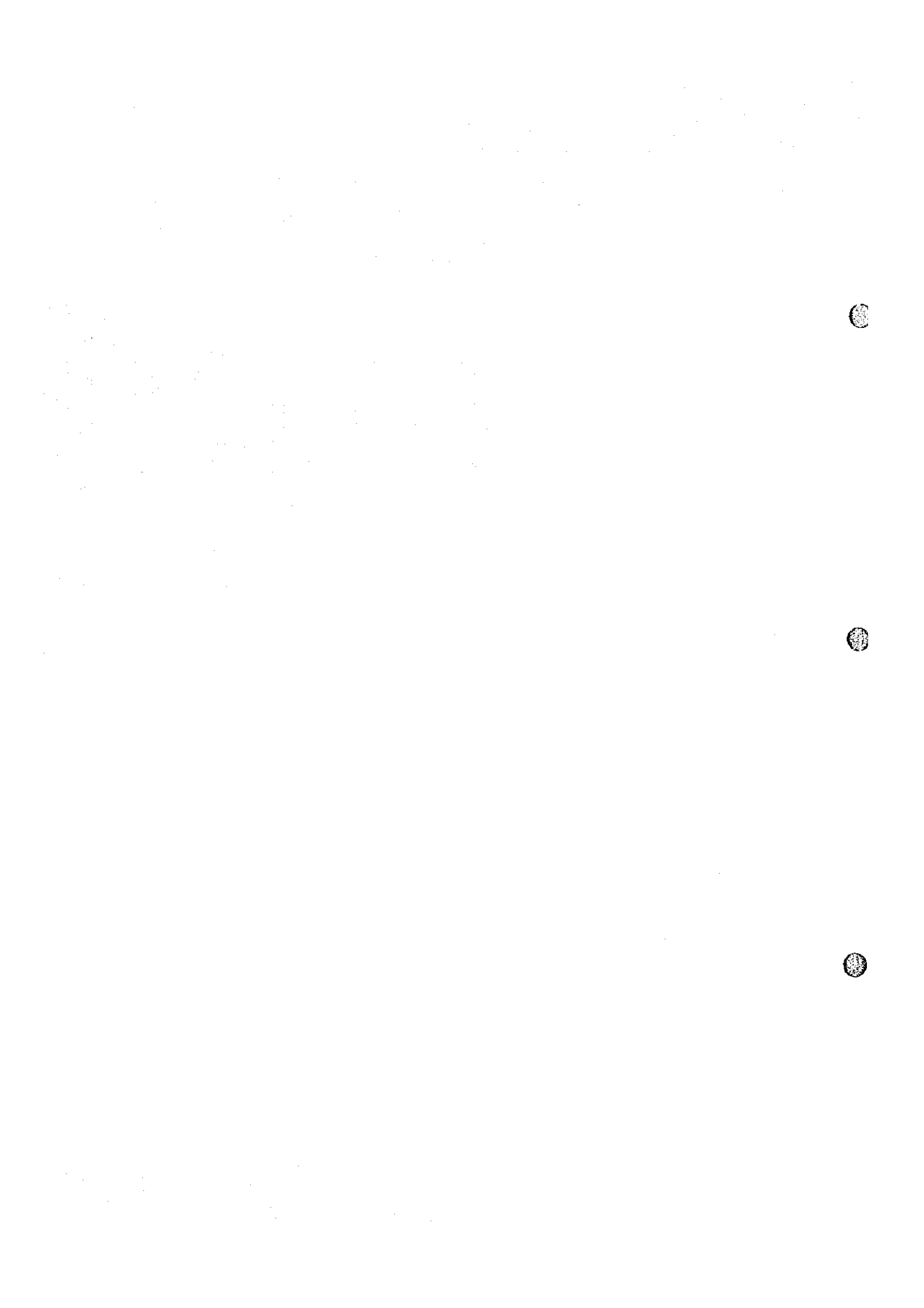


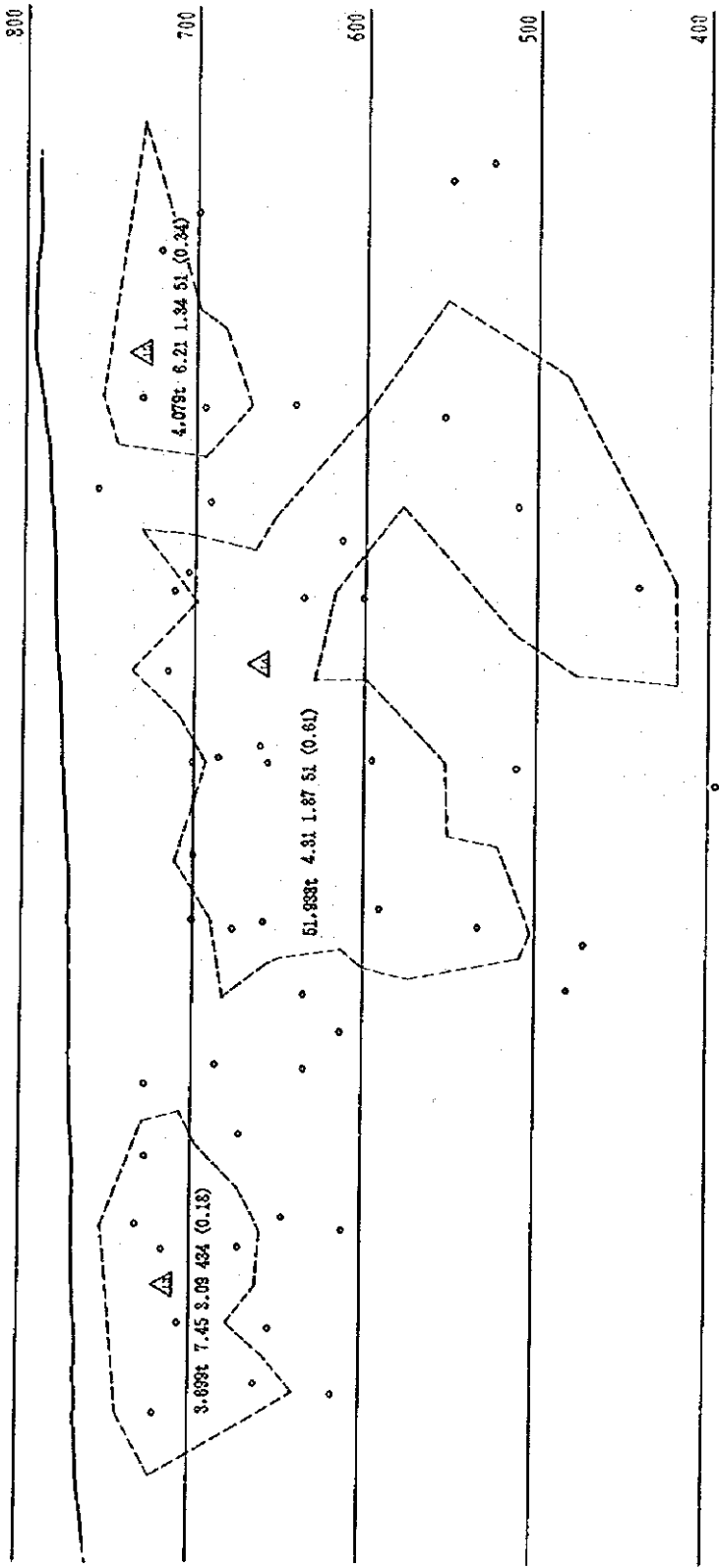
LEGEND

- 11 Proved Reserve
- 1 Probable Reserve
- △ Possible Reserve

Quantity	Pb %	Zn %	Ag g/t	(width, m)
1,650t	5.42	4.37	66	(0.42)

18-11 Profile of the Ore Reserve Estimation No.4 Vein (Main Area)	
Scale 1/4,000	Date
Drawing No.	





18-12
 Profile of the Ore Reserve Estimation
 No. 4 Vein (Northern Area)

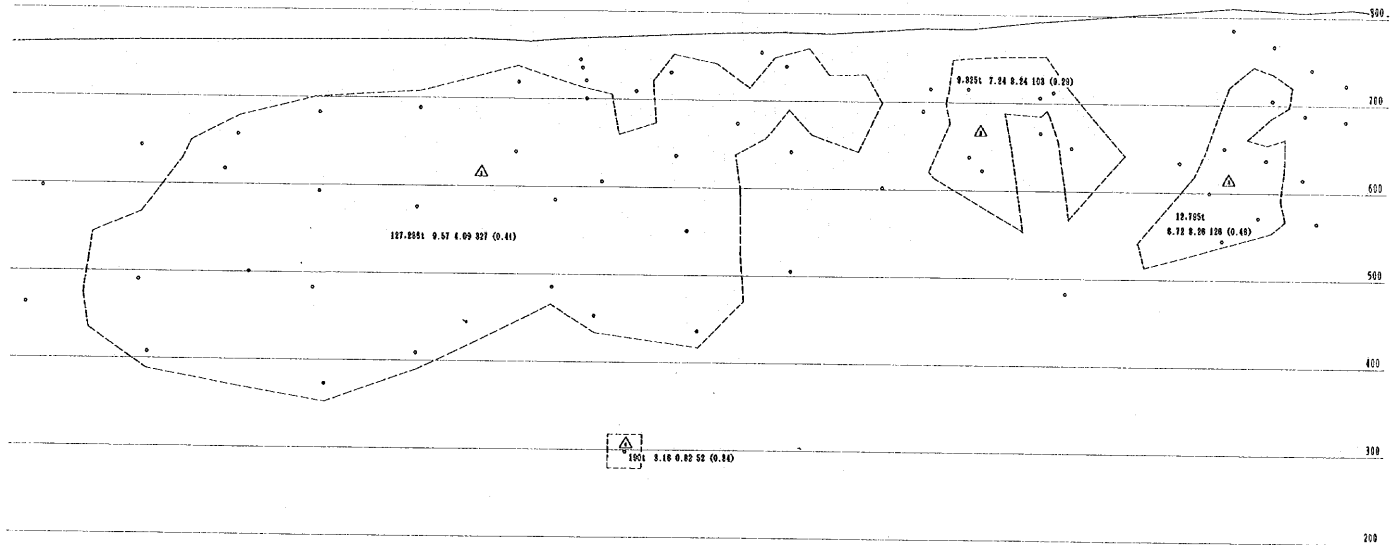
Scale 1/4,000	Date
Drawing No.	

LEGEND

Probable Reserve
 Possible Reserve

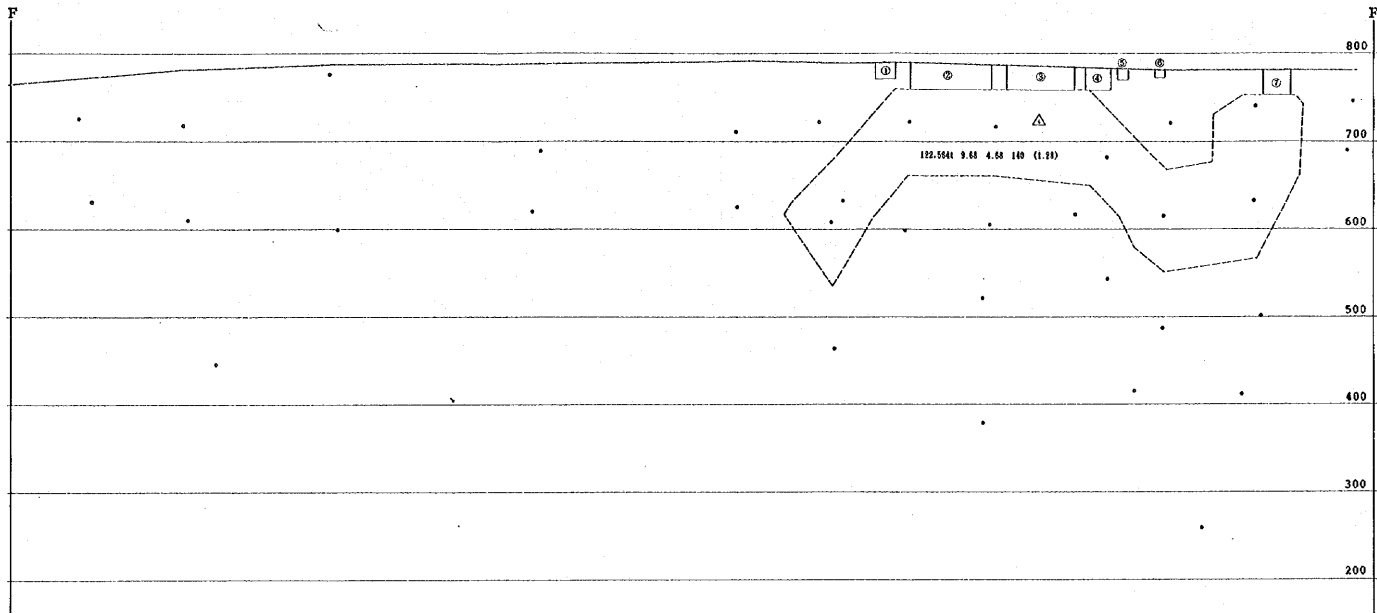
Quantity	Pb %	Zn %	Ag g/t	(width, m)
1.650t	5.42	4.97	66	(0.42)





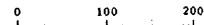
18-13 Profile of the Ore Reserve Estimation	
No. 4A Vein	
Scale 1/4,000	Date
Drawing No.	



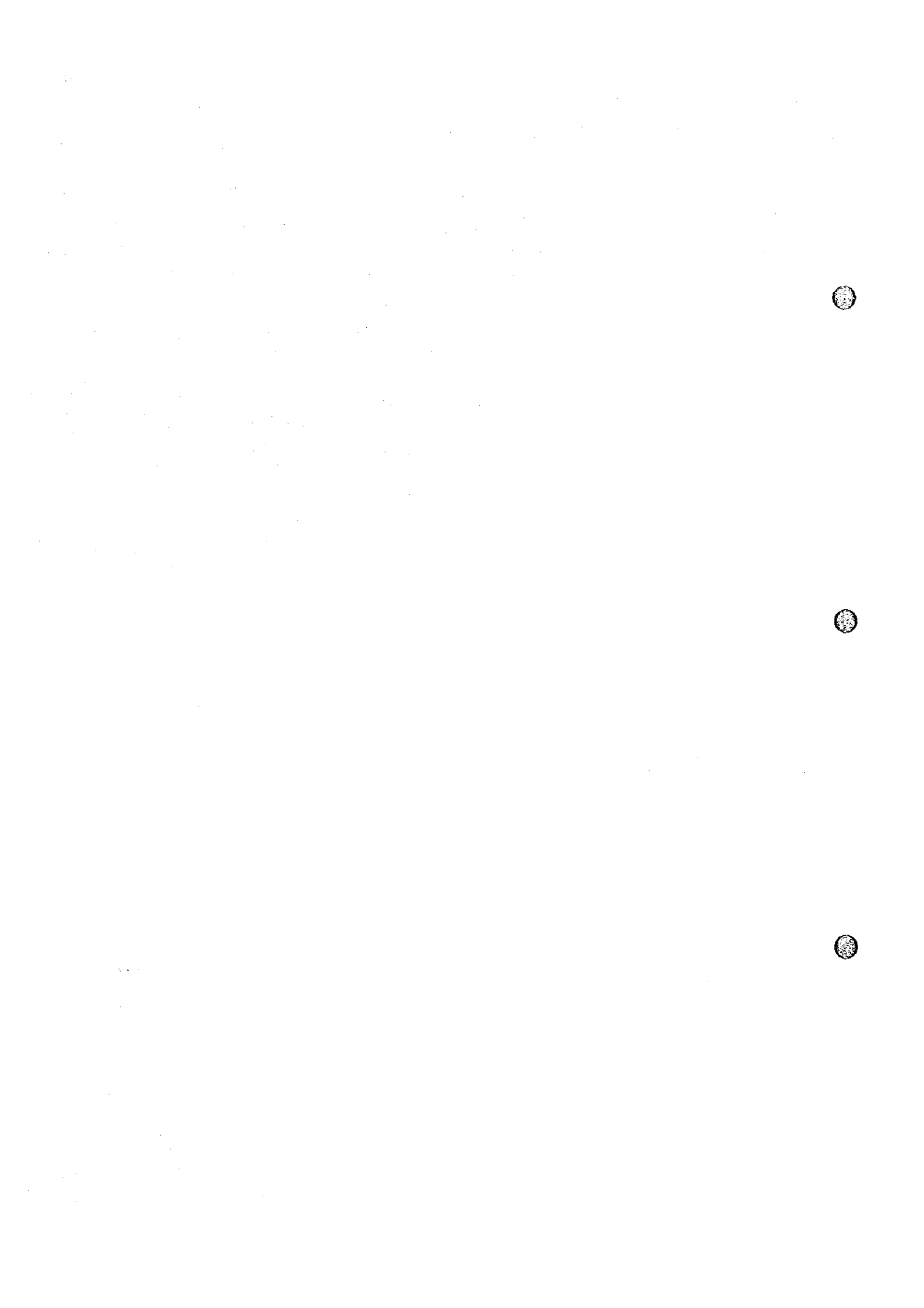


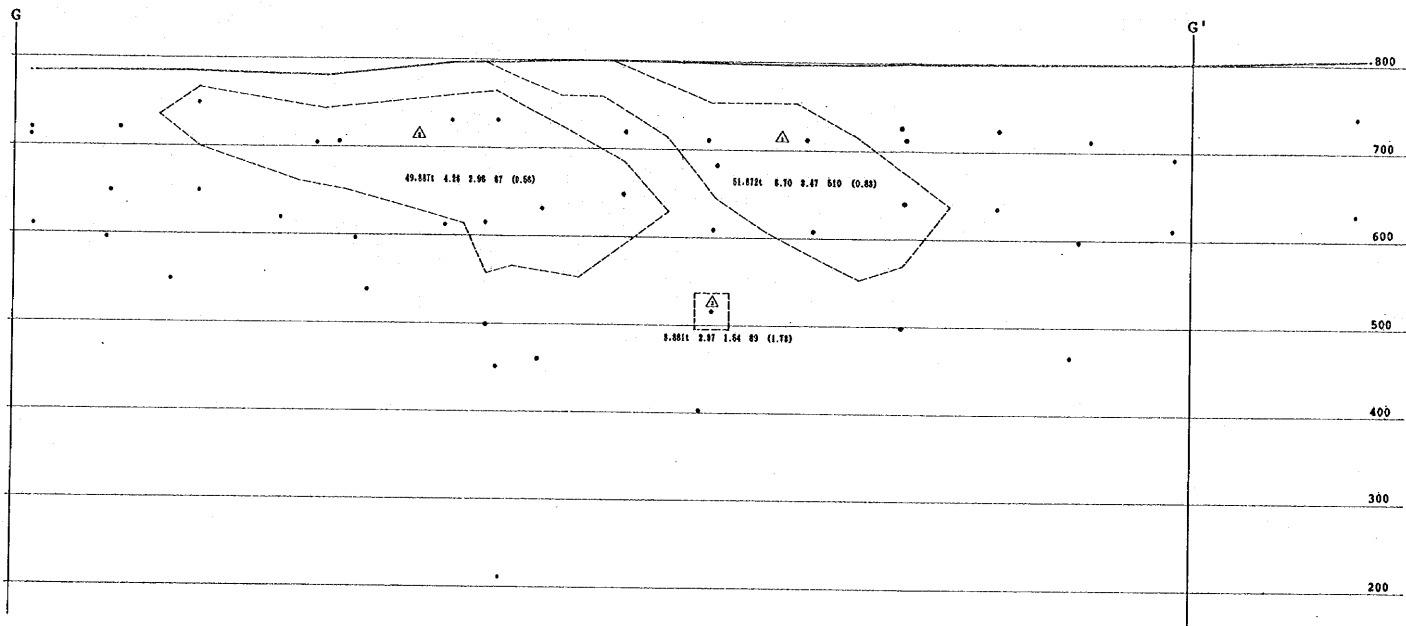
⊙ Probable Reserve
△ Possible Reserve

Quantity	Pb %	Zn %	Ag g/l	(width, m)
2,680	2.63	3.18	904	(0.60)



18-14 Profile of the Ore Reserve Estimation of No. 6 Vein (North)





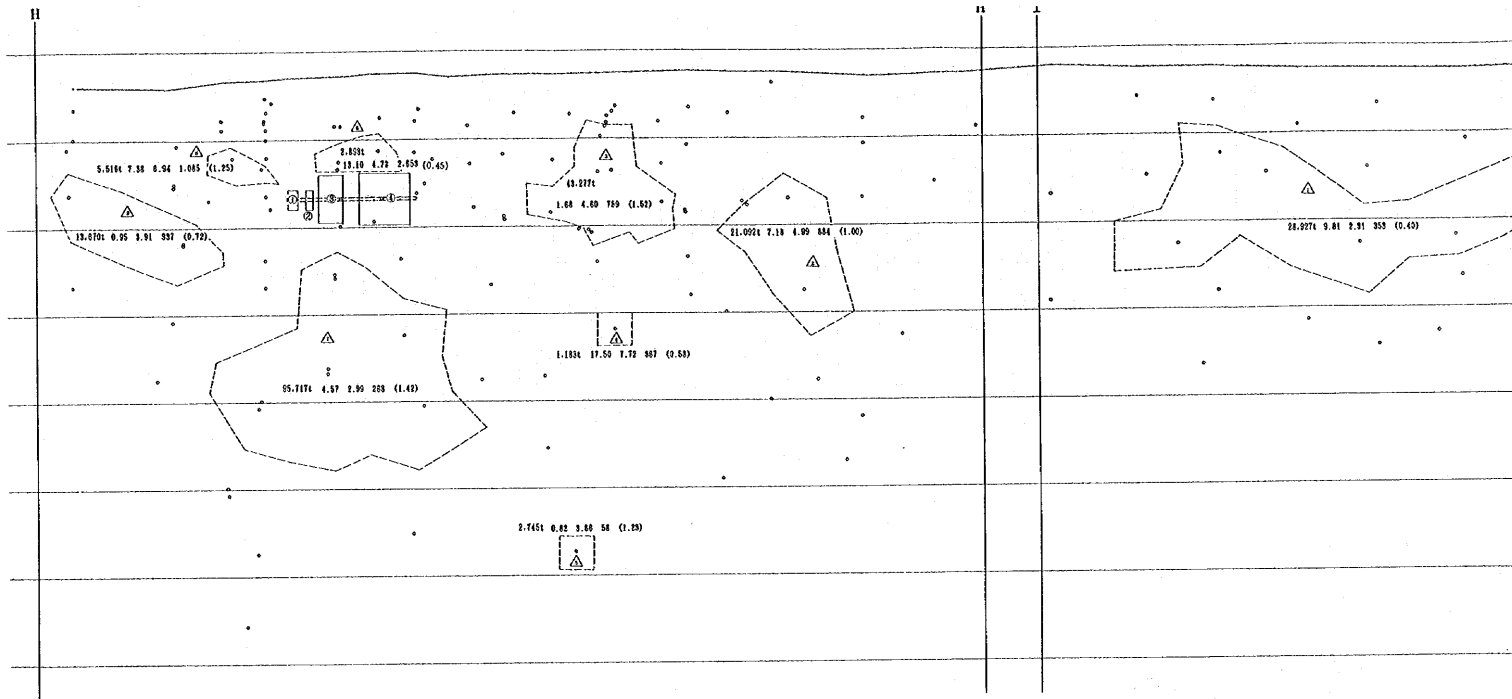
Probable Reserve
 Possible Reserve



Quantity	Pb %	Zn %	Ag g/t	(width, m)
2,680	2.63	3.18	904	(0.60)

0 100 200

18-15 Profile of the Ore Reserve Estimation of No.6 Vein (South)

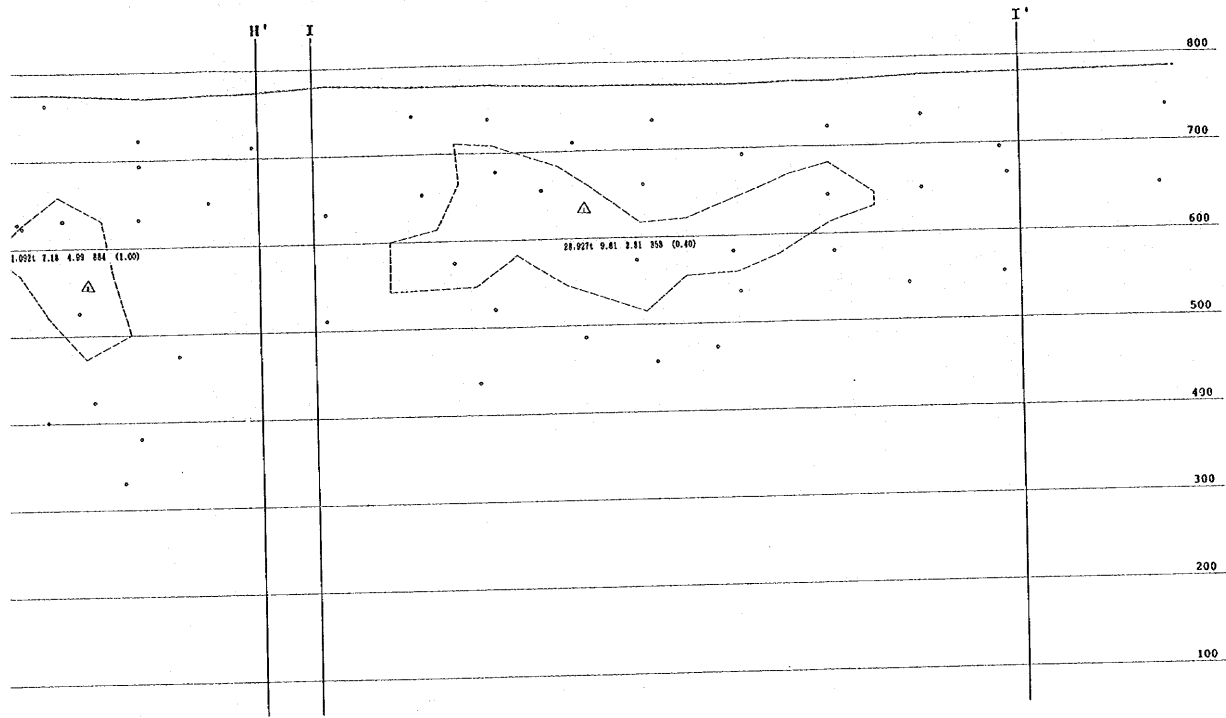




 Probable Reserve
 Possible Reserve

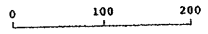
Quantity	Pb %	Zn %	Ag g/t	(width, m)
2,680	2.63	3.18	904	(0.60)

18-16 Profile of the Ore Reserve Estimation of No. 8 Vein



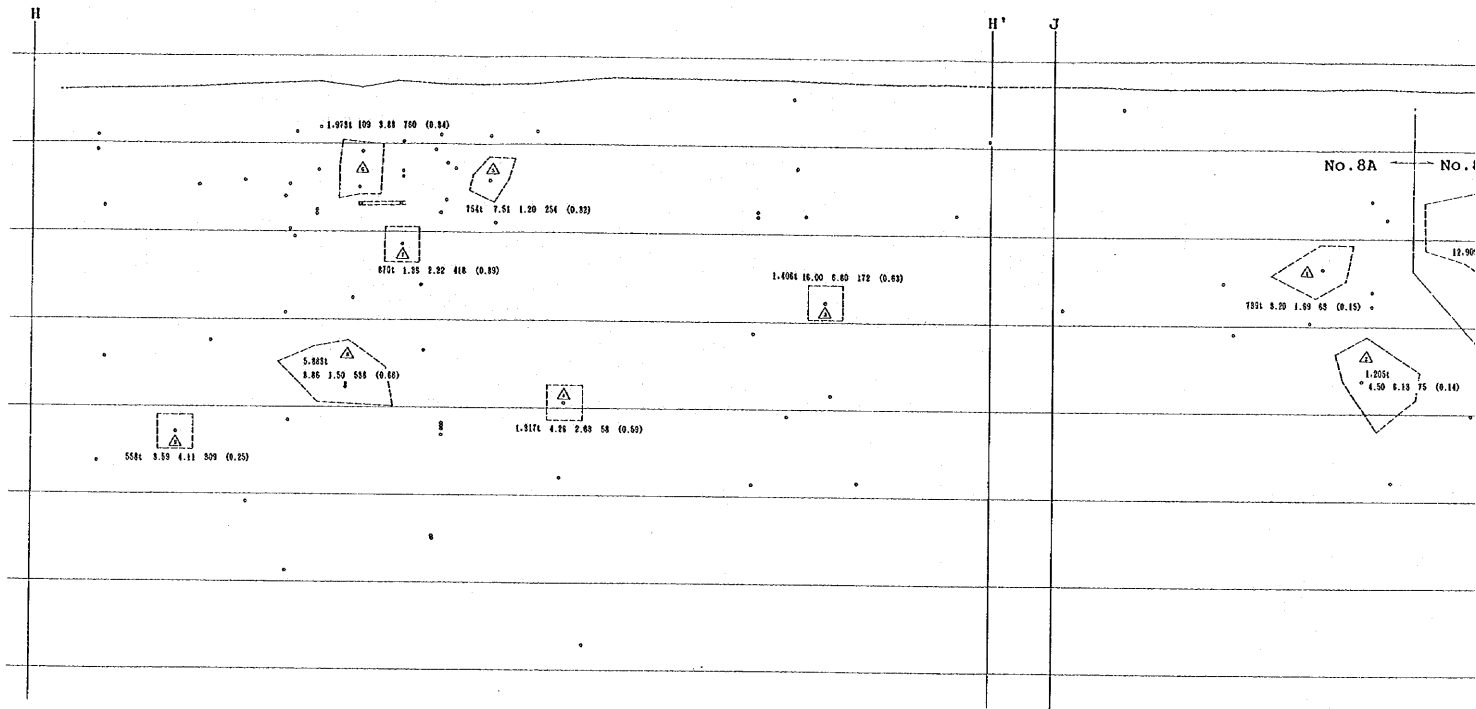
Probable Reserve
Possible Reserve

Quantity	Pb %	Zn %	Ag g/t	(width, m)
2,680	2.63	3.18	904	(0.60)



18-16 Profile of the Ore Reserve Estimation of No. 8 Vein

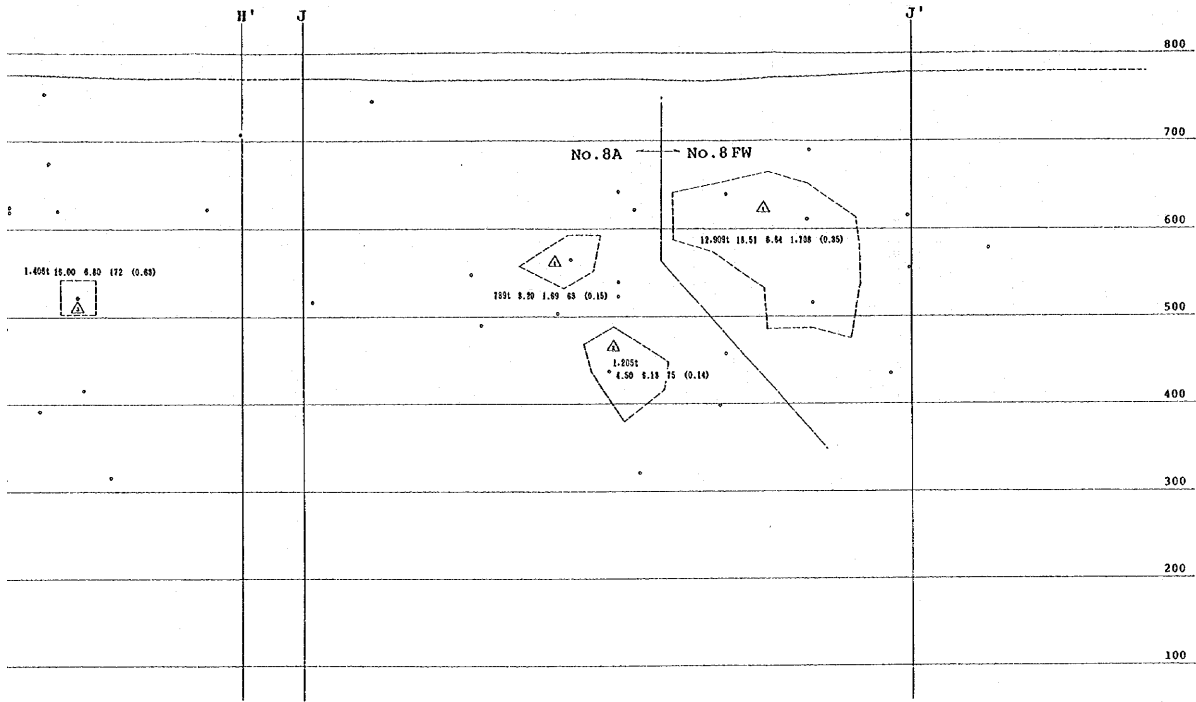




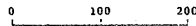
Probable Reserve
 Possible Reserve

Quantity	Pb %	Zn %	Ag g/t	(width, m)
2,680	2.63	3.18	904	(0.60)

18-17 Profile of the Ore Reserve Estimation of No. 8A and 3Fw Veins

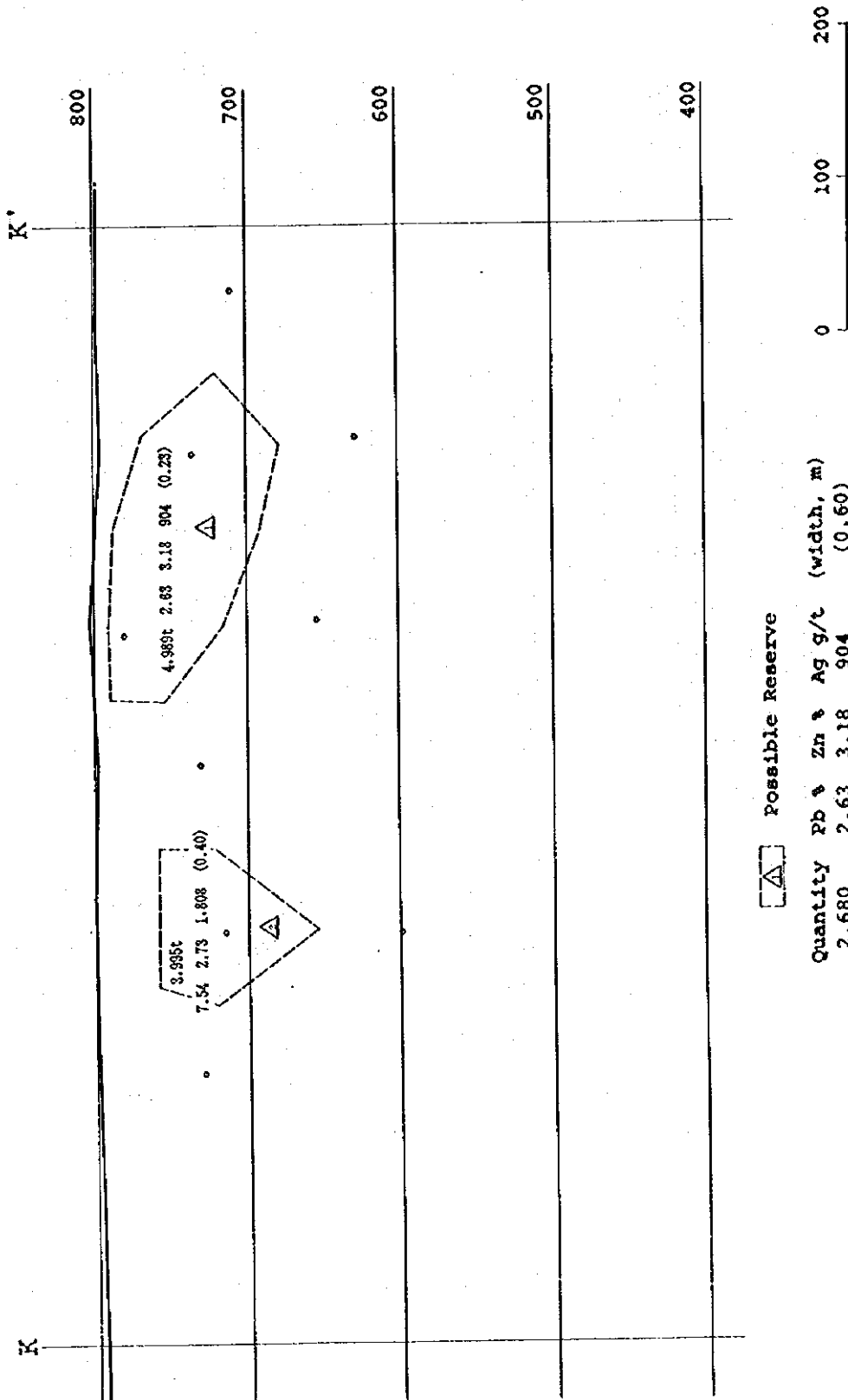


able Reserve	Quantity	Pb %	Zn %	Ag g/t	(width, m)
ible Reserve	2,680	2.63	3.18	904	(0.60)



Profile of the Ore Reserve Estimation of No.8A and 8Fw Veins





△ Possible Reserve

Quantity	Pb %	Zn %	Ag g/t	(width, m)
2,680	2.63	3.18	904	(0.60)

18-18 Profile of the Ore Reserve Estimation of No.10 Vein

Samples	Ore Minerals									
	Py	Sp	Gn	Cp	Td	El	Cc-Cv	Ce	Geo	Ga
Ore-1	.	⊙	⊙	△	.		.		.	
Ore-2	△	⊙	⊙	△	.	.	.			
Ore-3	.		⊙	△	.		.			
Mill Feed	○	○	⊙
Pb conc. -1 (SDF)	.	△	⊙			
Pb conc. -2 (BDF)	.	△	⊙			
Zn conc. -1 (SDF)	△	⊙	△	.						
Zn conc. -2 (BDF)	○	⊙			
Mid. -1 (Pb CT-SDF)	○	⊙	○	△	.		.			.
Mid. -2 (Zn CT-SDF)	○	⊙	△	△	.			.		△
Mid. -3 (Bulk CT-SDF)	⊙	△			△
Mid. -4 (Pb CT-SDF)	⊙	△	△
Tailing-1 (SDF)	○	.	.					.		⊙
Tailing-2 (BDF)	○	.	.					.		⊙
Tailing-3 (BDF)	○		⊙

Remarks ⊙ : Abundant ○ : A little △ : Rare . : Extremely rare

Py:Pyrite Sp:Sphalerite Gn:Galena Cp:Chalcopyrite

Td:Tetrahedrite El:Electrum Cc:Chalcocite Cv:Covellite

Ce: Cerussite Geo:Geothite Ga:Gangue

SDF:Straiht differential flotation BDF:Bulk differential flotation

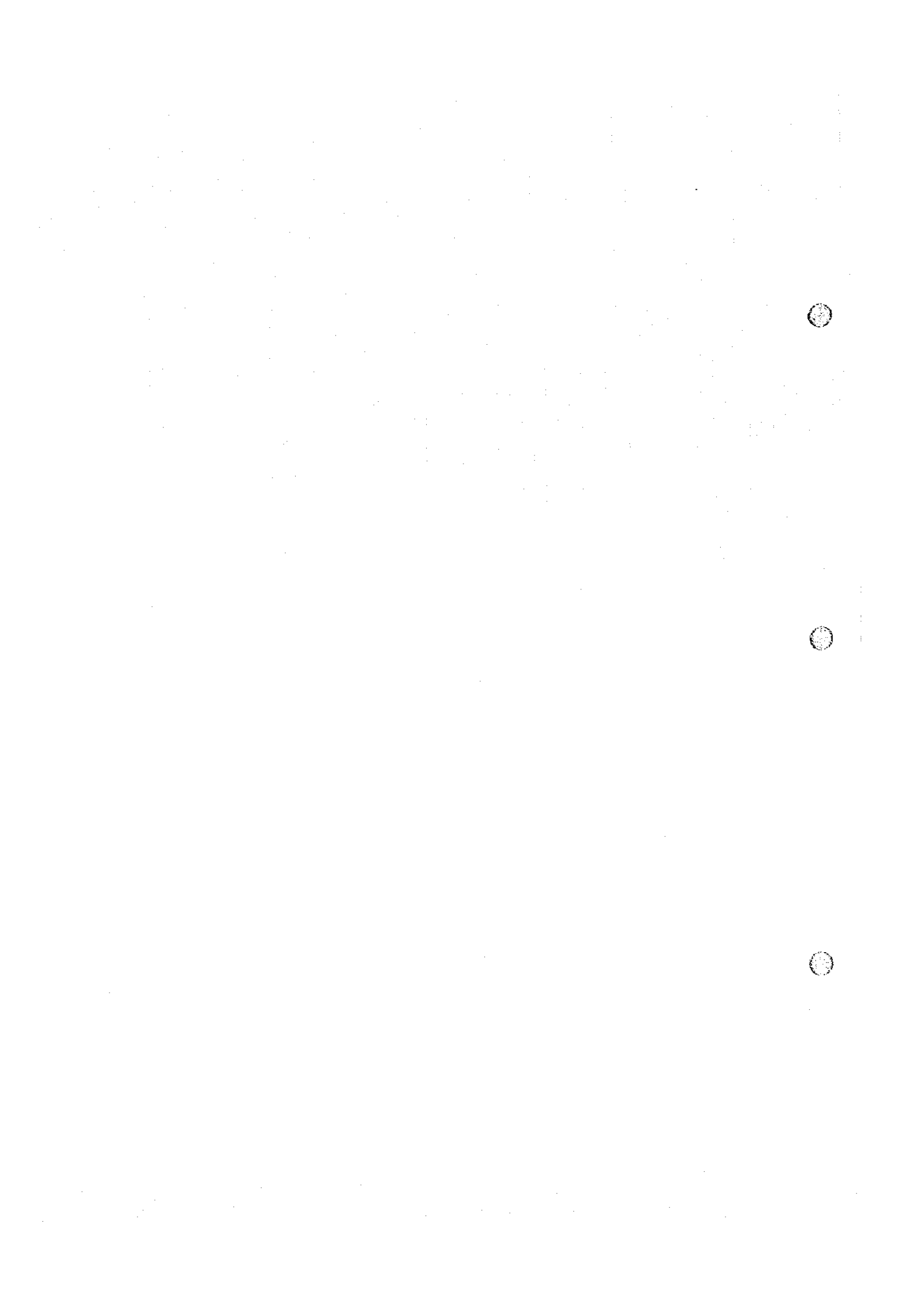
Conc. :Concentrate Mid. :Middling CT:Cleaning tail

Apx. 19 List of Microscopic Observation Results

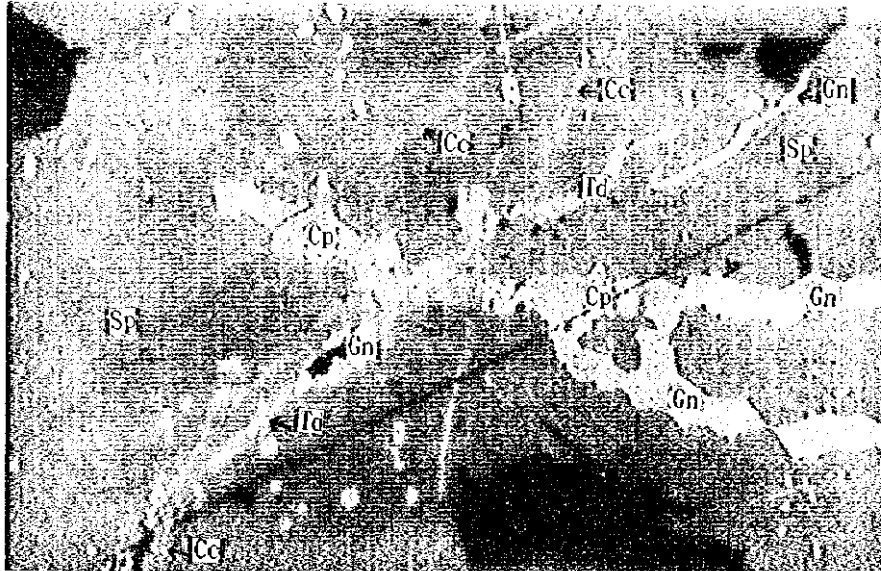
Apx. 20 Microscopic Photographs

[Remarks]

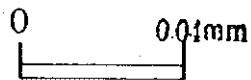
Cp : Chalcopyrite
Cc : Chalcocite
Cv : Covellite
Ce : Cerrusite
El : Electrum
Ga : Gangue Minerals
Gt : Geothite
Gn : Galena
Py : Pyrite
Sp : Sphalerite
Td : Tetrahedrite



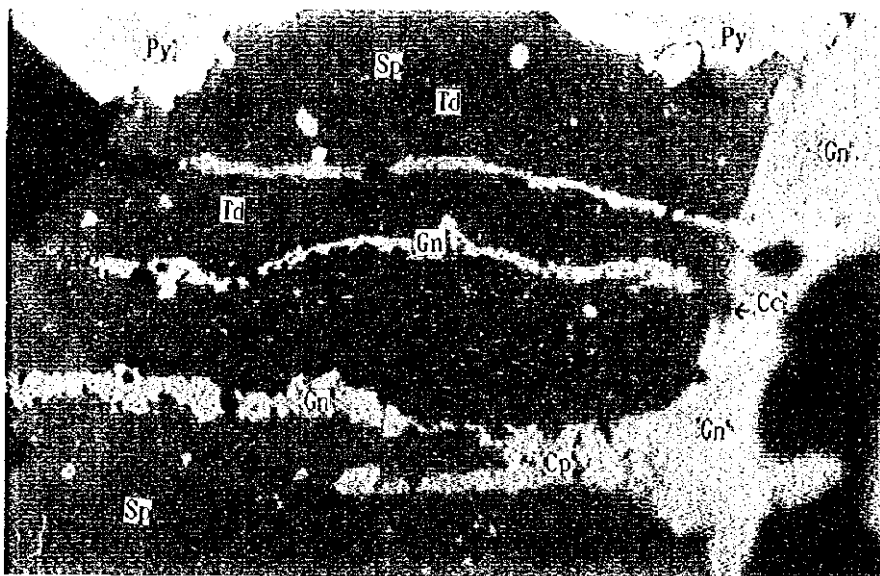
Microphotographs of Polished Sections
(Reflected light)



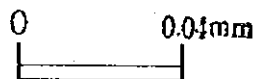
Ore-1



Galena, Chalcocite and Tetrahedrite, in hair-like fine veins in sphalerite crystals



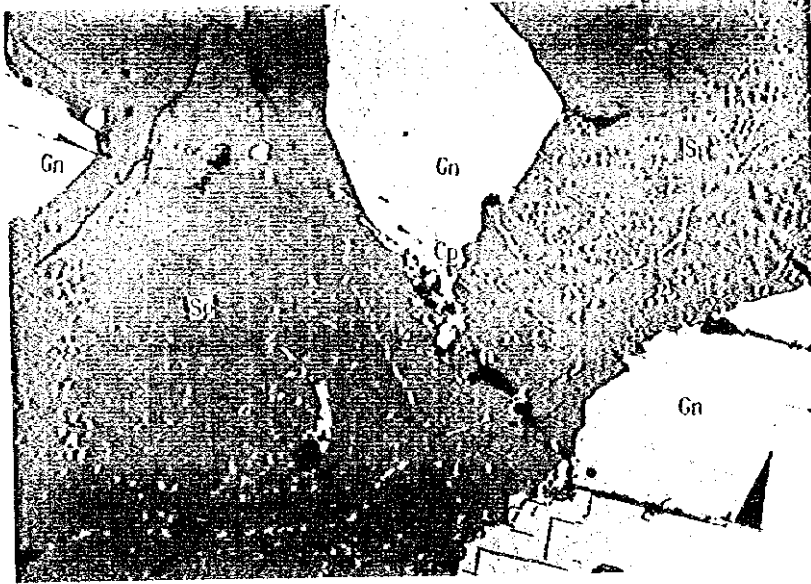
Another view



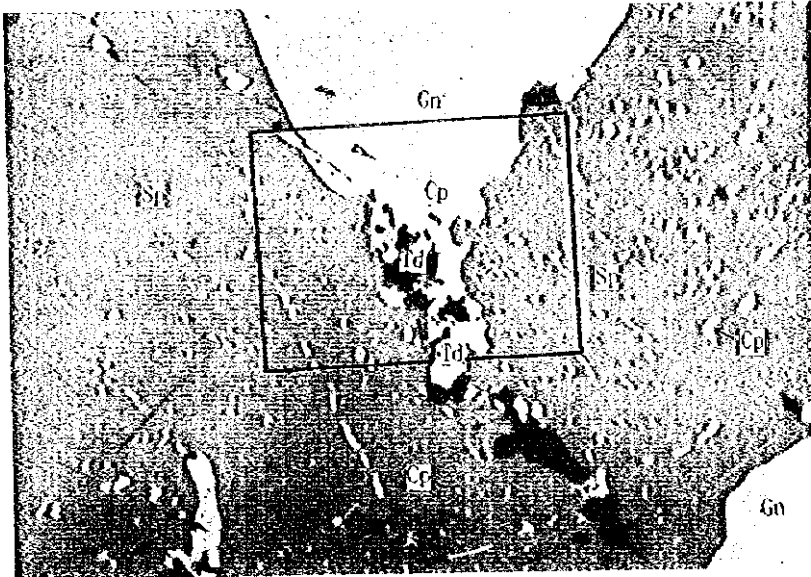
Film No 0803- 1, 2

Microphotographs of Polished Sections
(Reflected light)

Ore-1



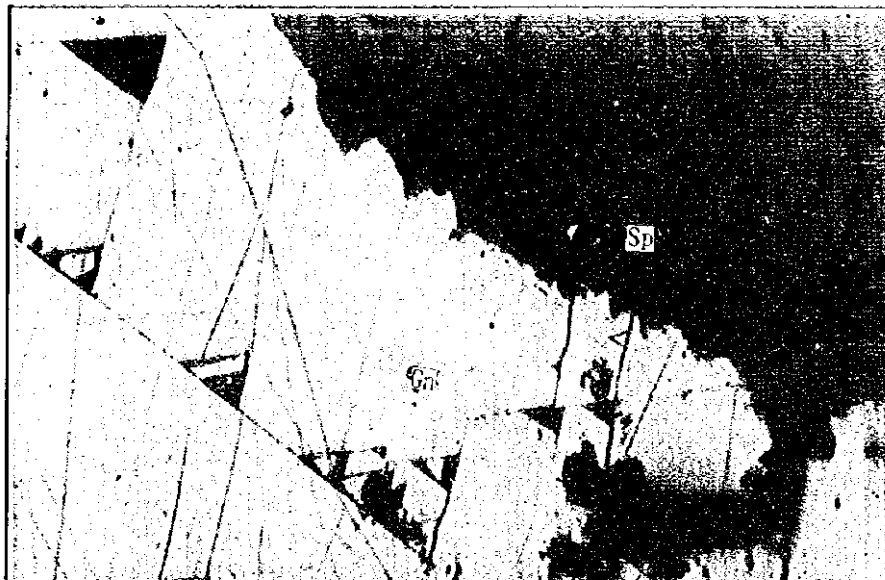
0 0.2mm



0 0.1mm

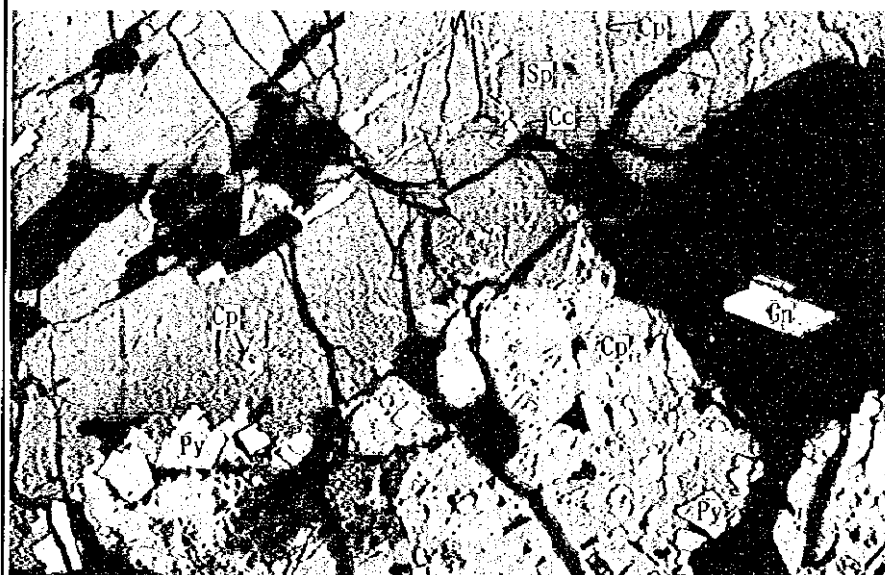
EPMA No. 1

Film No. 1736-00.0



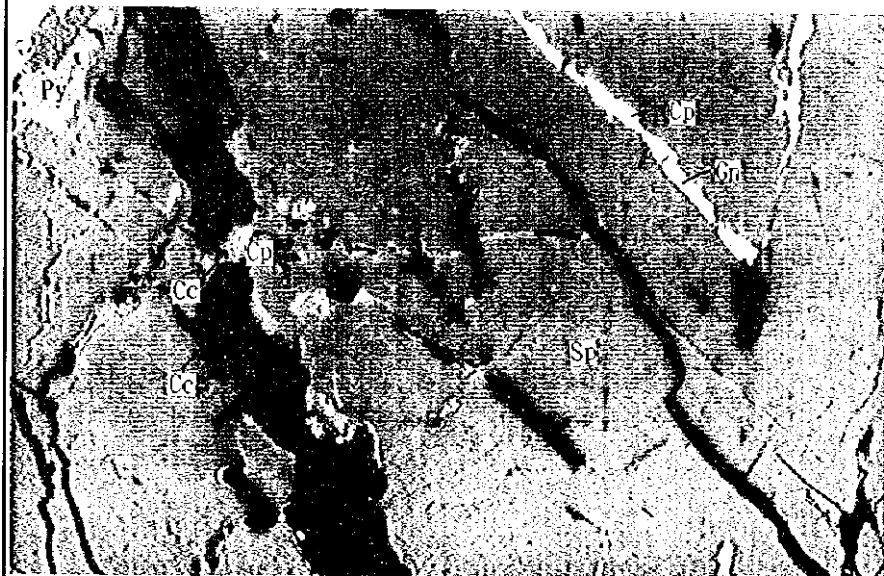
Ore-1

0 0.4mm



Ore-2

0 0.4mm



Magnified view of same sample

0 0.2mm

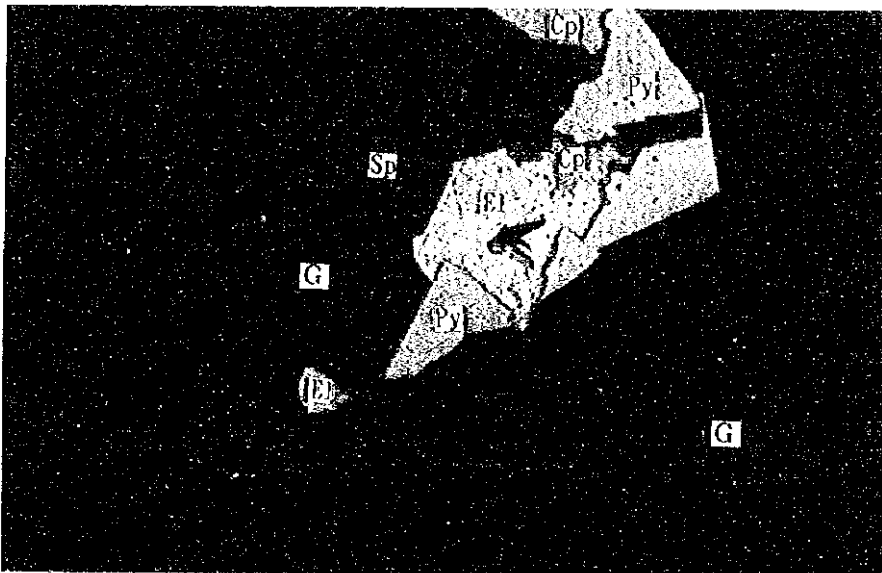
Film No 0887-0, 1, 2

Microphotographs of Polished Sections
(Reflected light)



Ore-2

0 0.2mm



Magnified view
in the frame

0 0.01mm

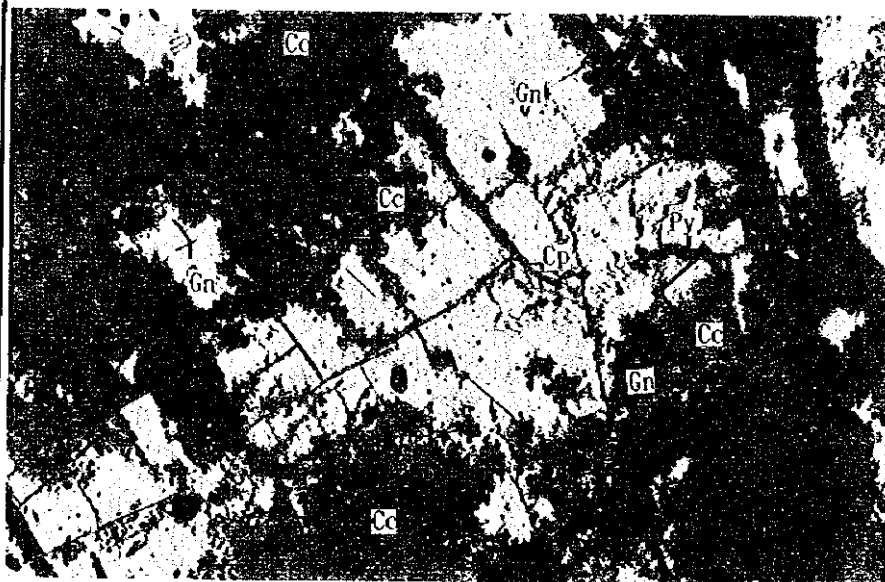
Electrum in gangue and
30 μ m grain associated
with Chalcopyrite and
sphalerite

Film No 0803 - 0 - 00



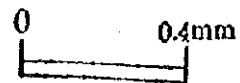
Ore-3

Tetrahedrite in galena

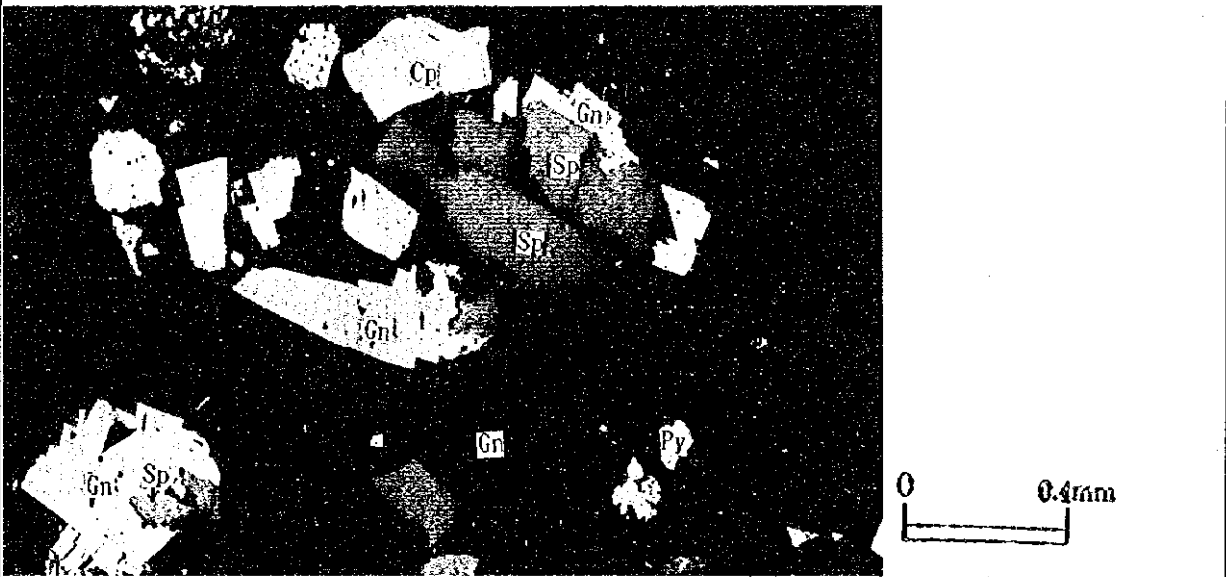
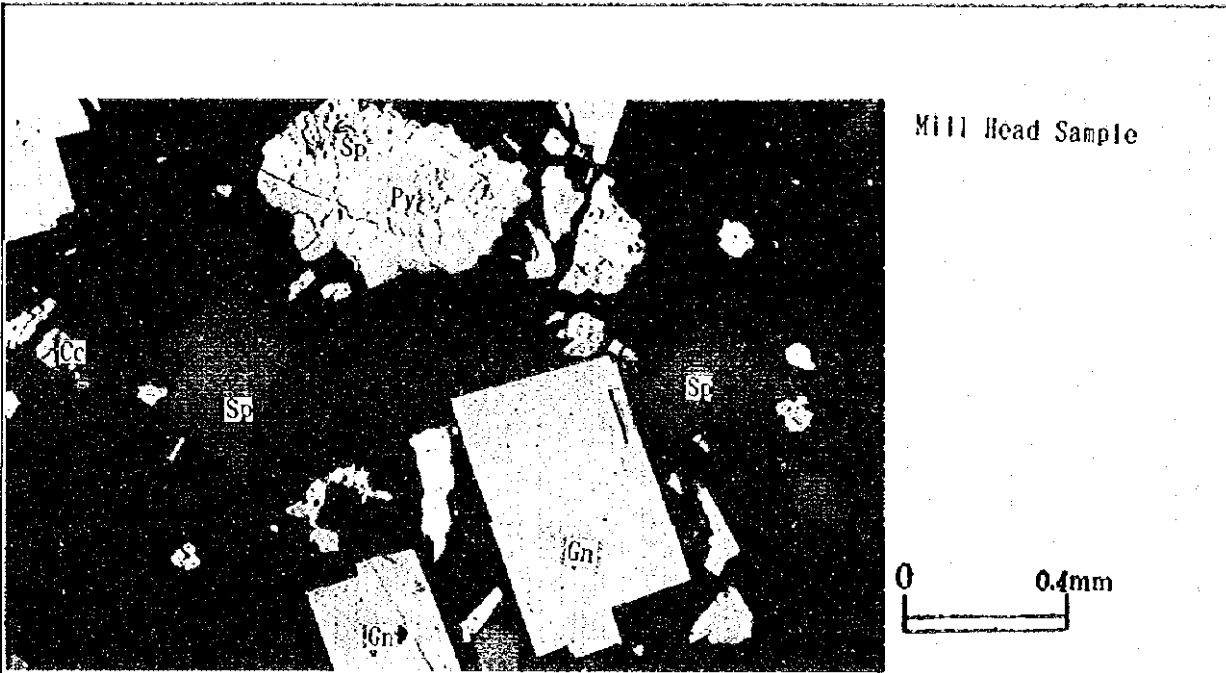


EPMA No. 2

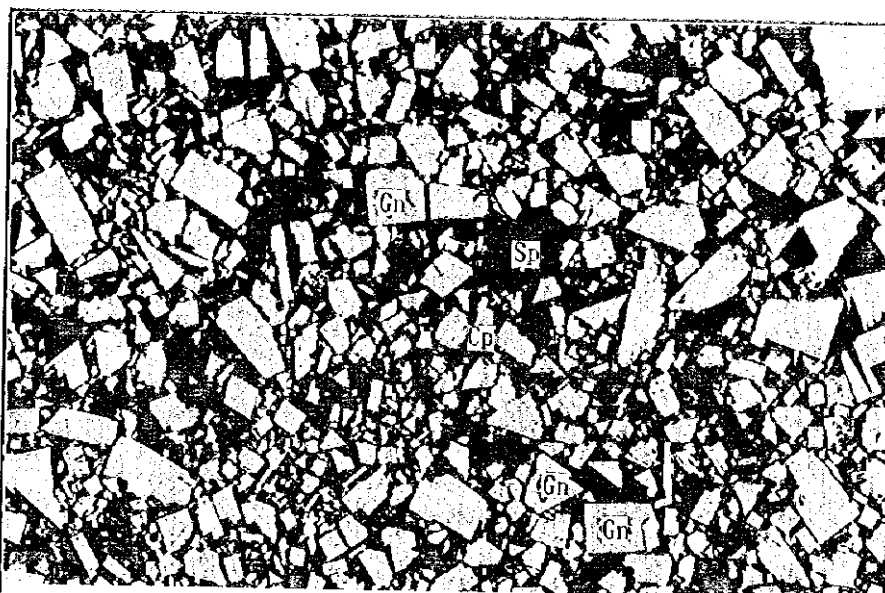
Replaced cerussite
in galena



Film No. 0887-3-4

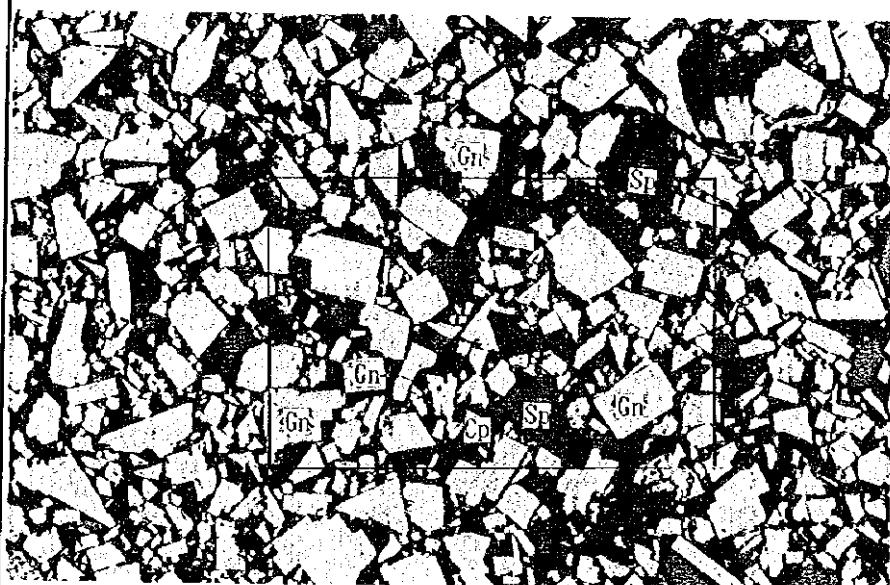


Film No. 0887-5; 6

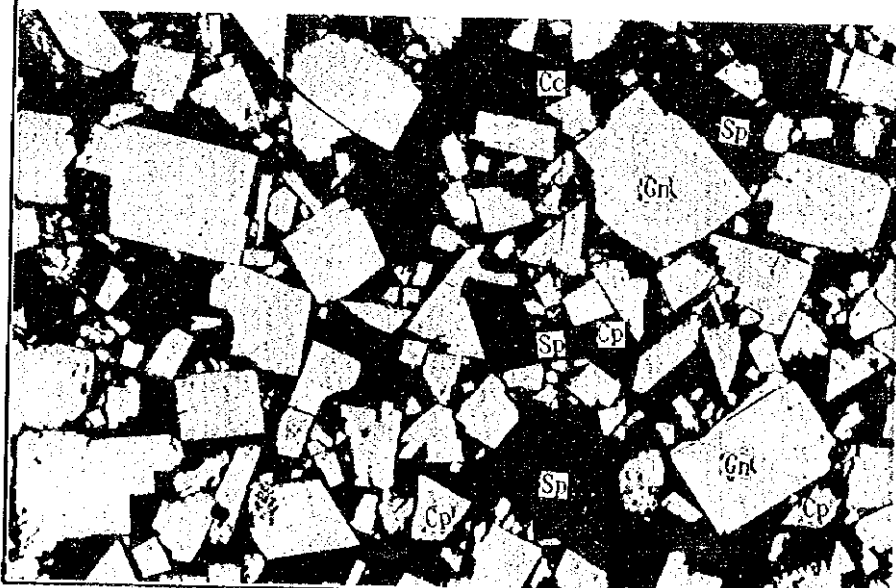


Pb Conc. 1 (SDF)

0 0.4mm



0 0.4mm



Magnified view
in the frame

0 0.2mm.

Film No. 0887-7, 8, 9



Pb Conc. 1 (SDF)

Electrum associated with sphalerite

0 0.04mm



Electrum in free particle

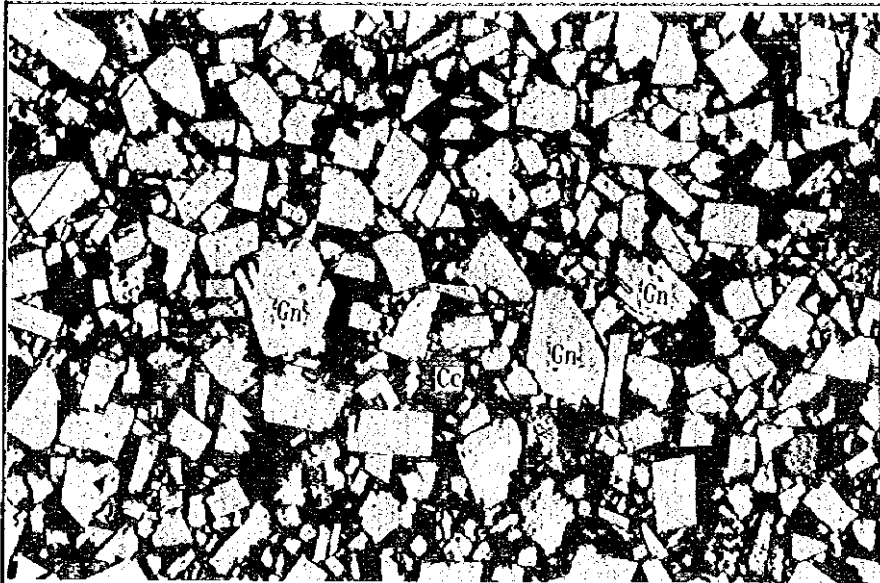
0 0.1mm



Sphalerite in free particle

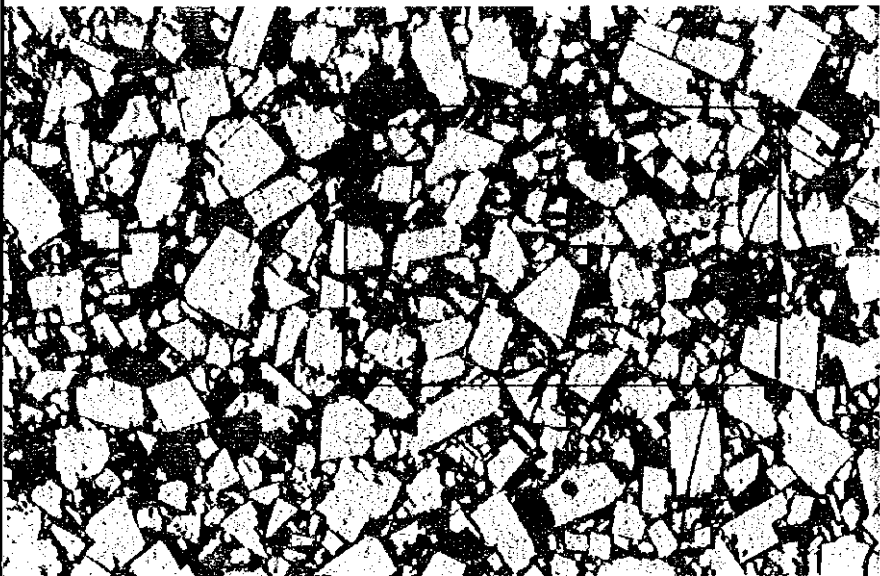
0 0.1mm

Film No. 0803-3-4.5

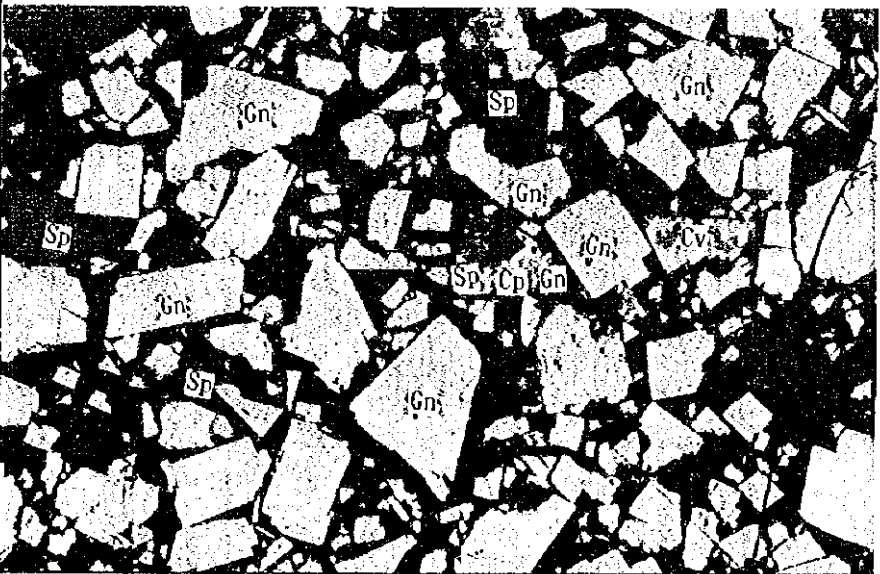


Pb Conc. 2 (BDF)

0 0.4mm



0 0.4mm

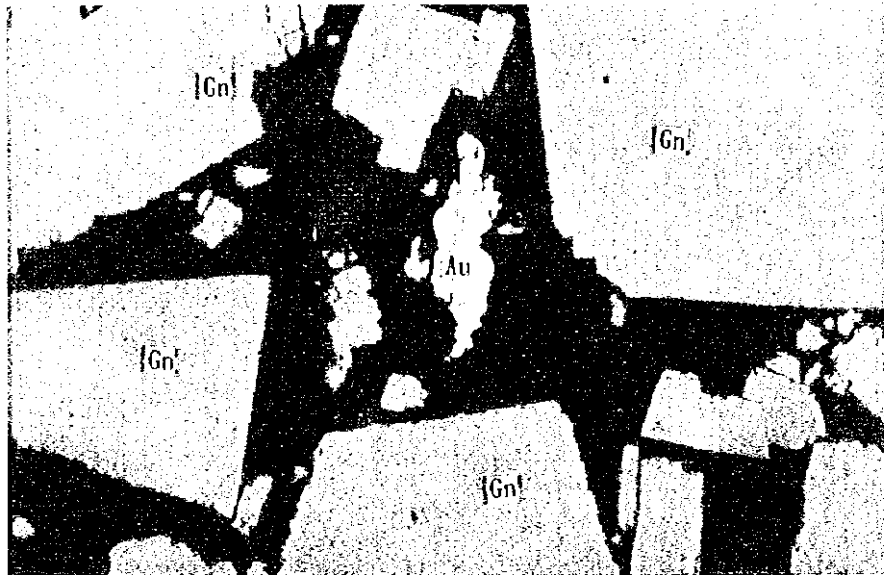


Magnified view
in the frame

0 0.2mm

Film No. 0887-10, 11, 12

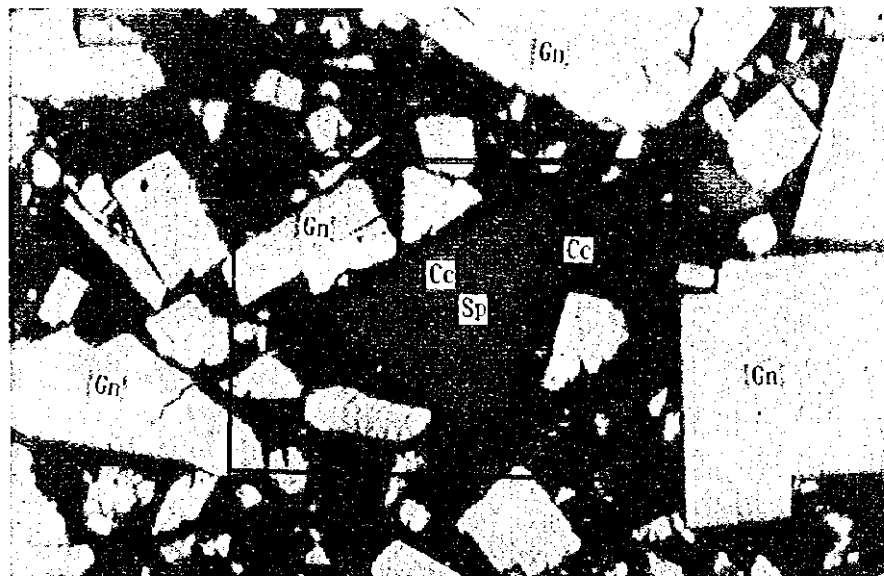
Microphotographs of Polished Sections
(Reflected light)



Pb Conc. 2 (BDF)

50 μ m grain electron
in free particle

0 0.04mm



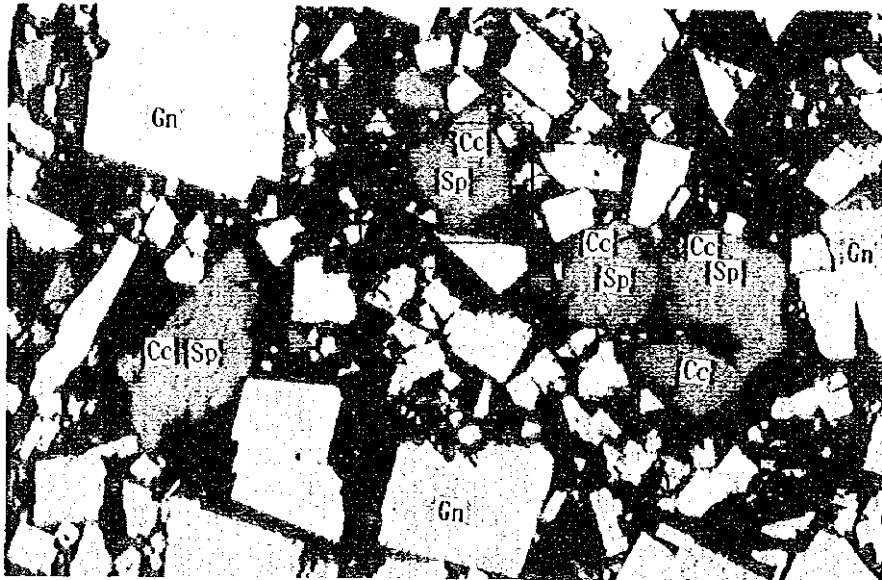
EPMA No. 3

Film-like Chalcocite
encircles around
sphalerite

0 0.04mm

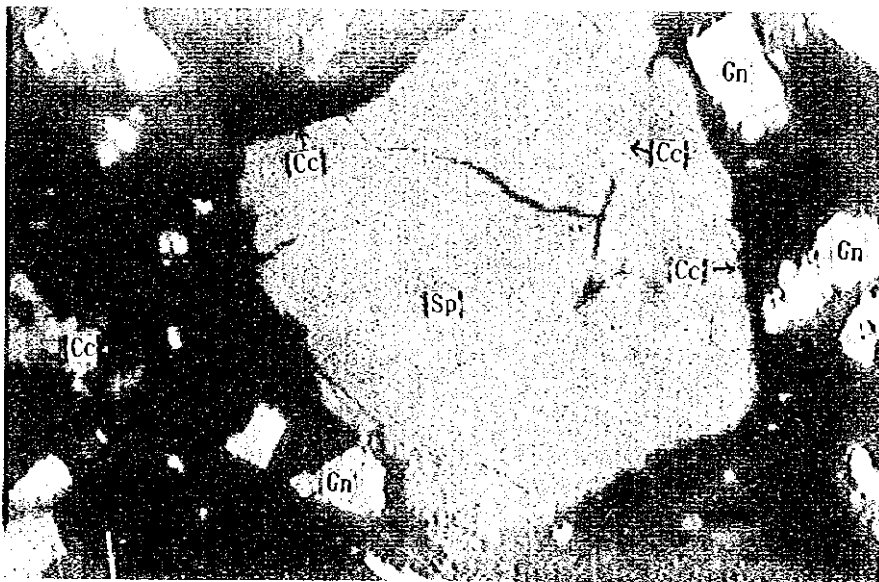
Film No. 0803-6.9

Microphotographs of Polished Sections
(Reflected light)



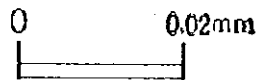
Pb Conc. 2 (BDF)

Film-like Chalcocite encircles around sphalerite



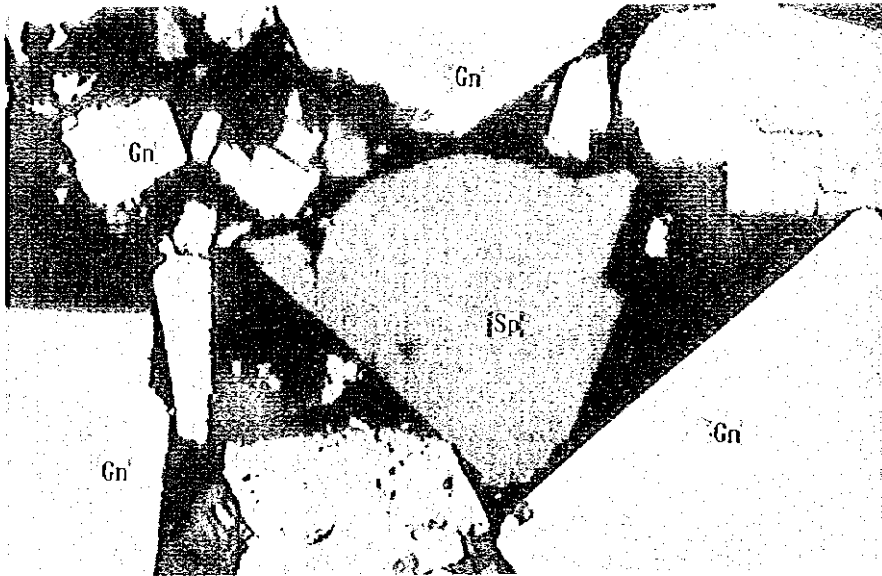
Magnified view
in the frame

Chalcocite filled in
hair-like fine veins
into sphalerite grain



Film No. 0803- 7.8

Microphotographs of Polished Sections
(Reflected light)

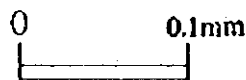


Pb Conc. 2 (BDF)

sphalerite in free
particle



Tetrahedrite with
galena in middling

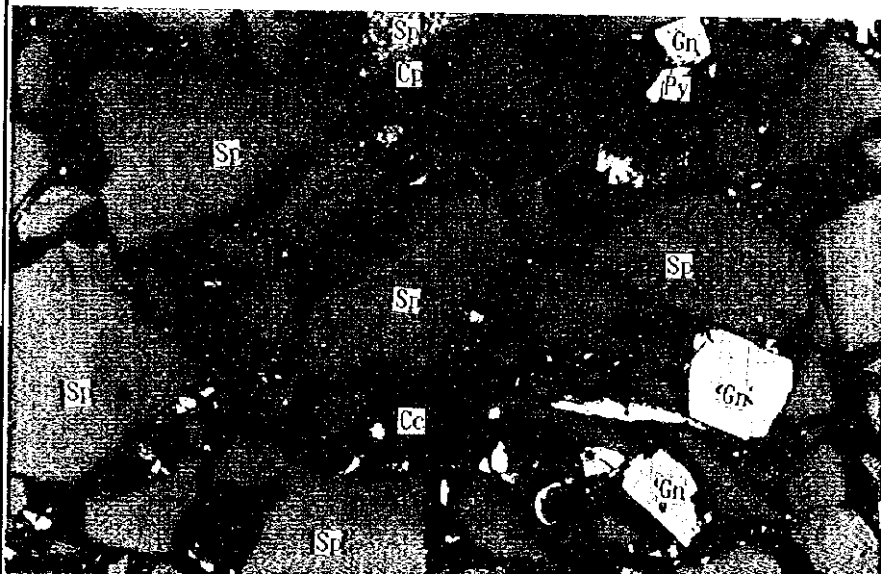
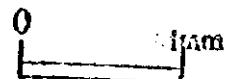
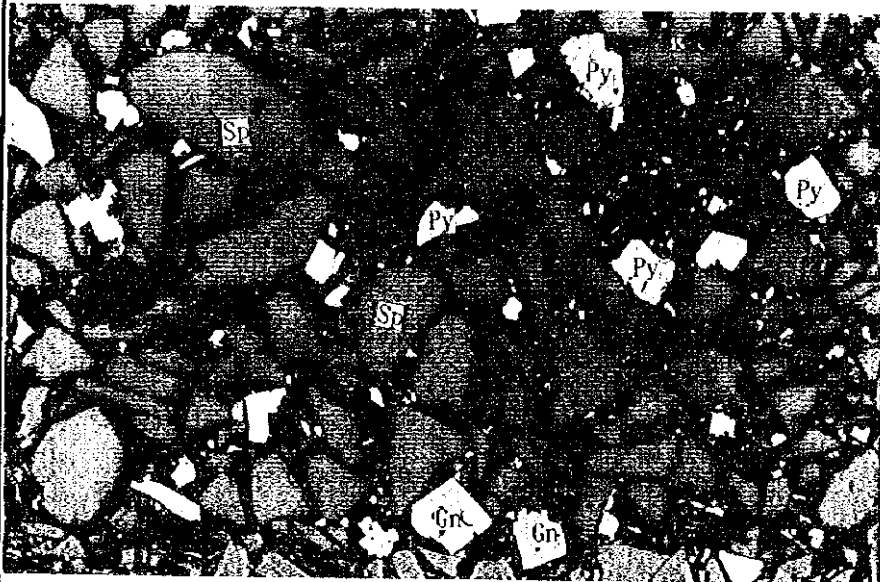


Film No. 0803 - 10 - 11

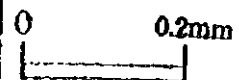


Zn Conc. 1 (SDF)

Mixed particle of galena and chalcopyrite



Magnified view of same sample



Film No. 0887-13, 14, 15