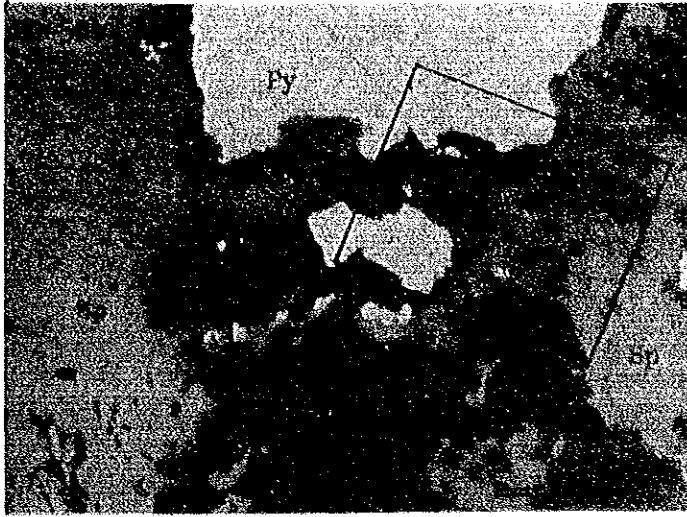


A. I-4-2 Polished section

Sample No.	Location	Geological Unit	Rock Type
NO - 304	G 4	St	Sphalerite - pyrite ore
NO - 314	IC - 4	St	Pyrite ore
NO - 369	G 4	Ph	Ag - galena - sphalerite ore
NO - 401	G 4	Jm	Ag - galena - sphalerite ore
TP - 203	G 4	Ph	Sphalerite - magnetite ore
TP - 211	G 4	Ph	Sphalerite-pyrite ore

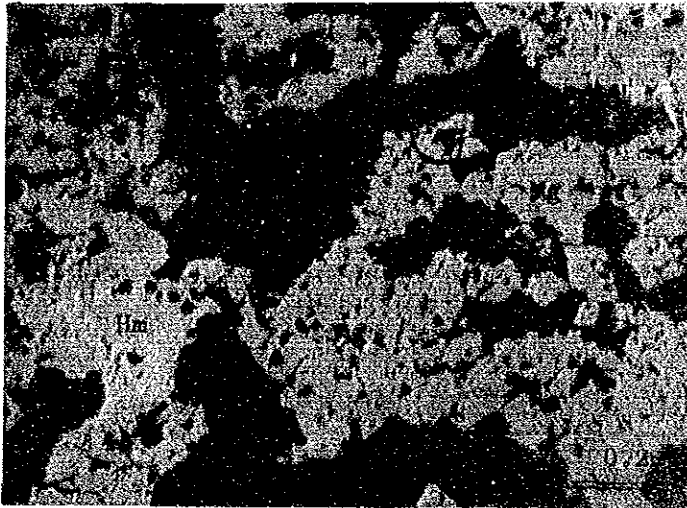
Abbreviations

Cp : Chalcopyrite
 Gl : Galena
 Sp : Sphalerite
 Py : Pyrite
 Po : Pyrrhotite
 Mg : Magnetite
 Hm : Hematite
 Bis : Bismuthinite
 Tet : Tetrahedrite



Sample No. NO-304

Rock Type: Zn pyrite ore



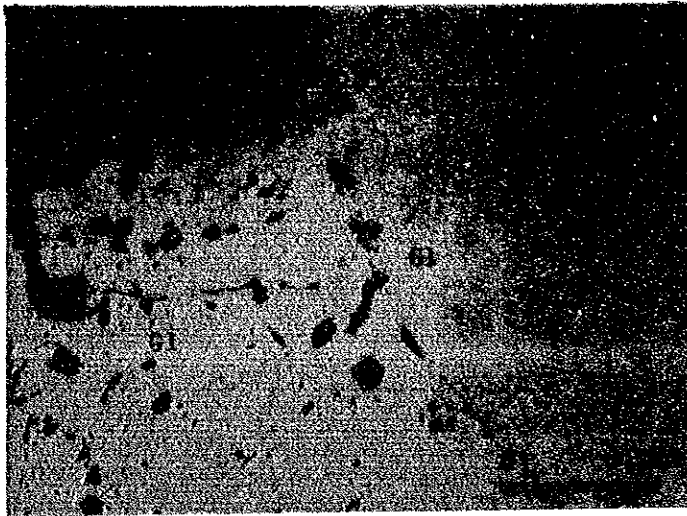
Sample No. NO-314

Rock Type: Pyrite ore



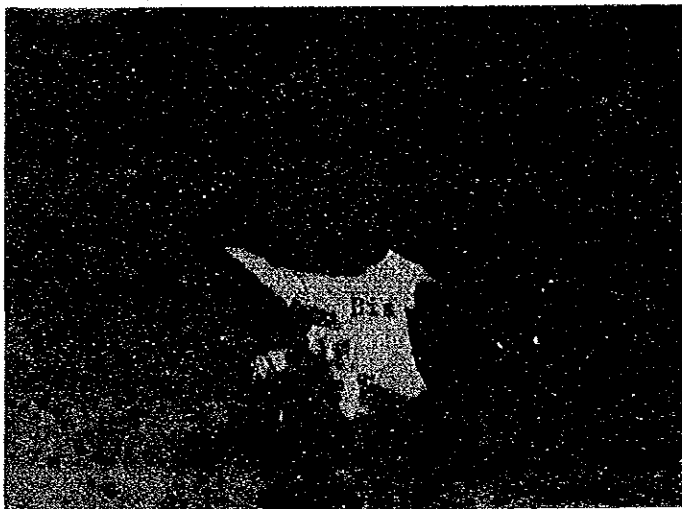
Sample No. NO-369

Rock Type: Ag-Pb-Zn ore



Sample No. NO-401

Rock Type: Ag-Pb-Zn ore



Sample No. TP-203

Rock Type: Zn magnetite ore



Sample No. TP-211

Rock Type: Zn pyrite ore

A. I-4-3 EPMA analysis

Sample No.	Result of EPMA Analysis
NO-304	Sphalerite contains a lot of chalcopyrite dots. In sphalerite, small grains of galena are contained. As iron minerals, iron-hydroxide is observed as well as pyrite.
NO-369-(1)	Tetrahedrite and Pb-Sb-Cu sulfide (bournite) are determined in galena.
NO-369-(2)	Same sample as the above. A small amount of Ag is clarified to be contained in tetrahedrite.
TP-203	Magnetite, sphalerite and bismuthinite are determined occurring in this sample.
TP-211	Chalcopyrite veinlet cuts sphalerite. Chalcopyrite of exsolution texture occurs as latic strips and small dots.

(EPMA: Electron probe microanalysis)

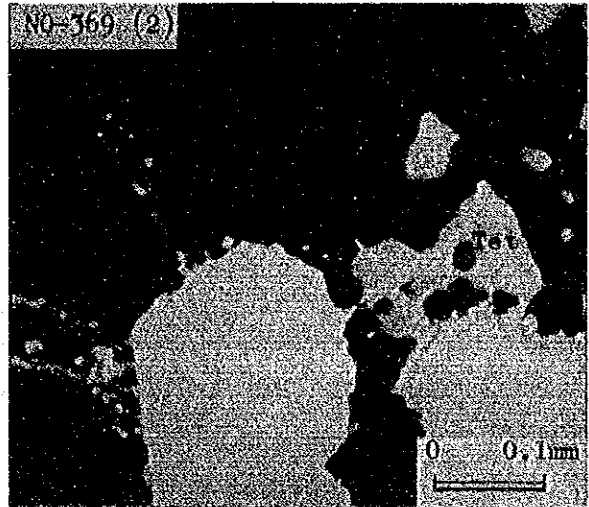
Abbreviations

Gl : Galena
Sp : Sphalerite
Tet : Tetrahedrite
Bis : Bismuthinite

Sample No. NO-369 (2)



Cu X-ray image



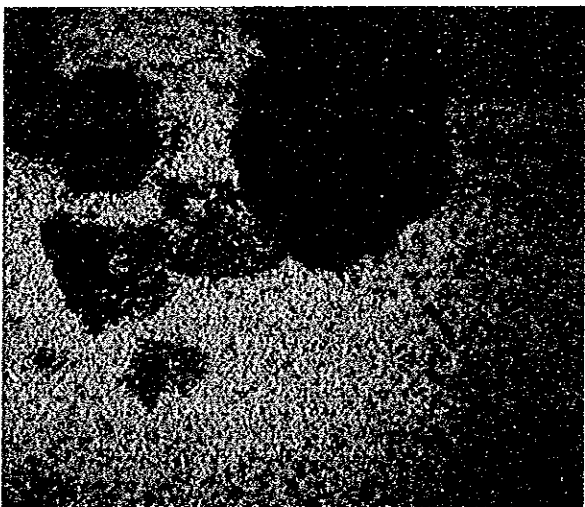
Absorbed electron image



Sb X-ray image

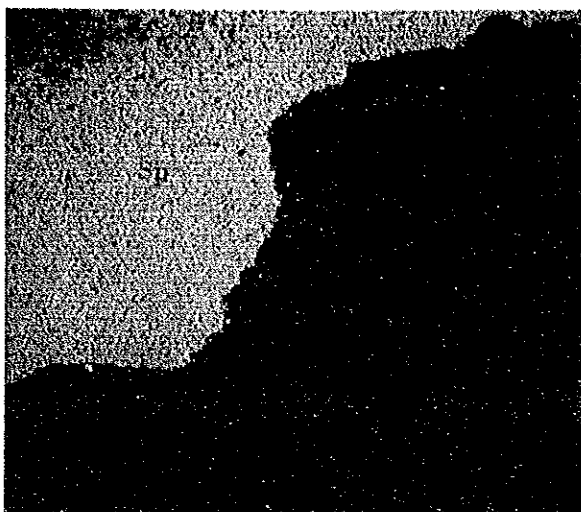


Ag X-ray image

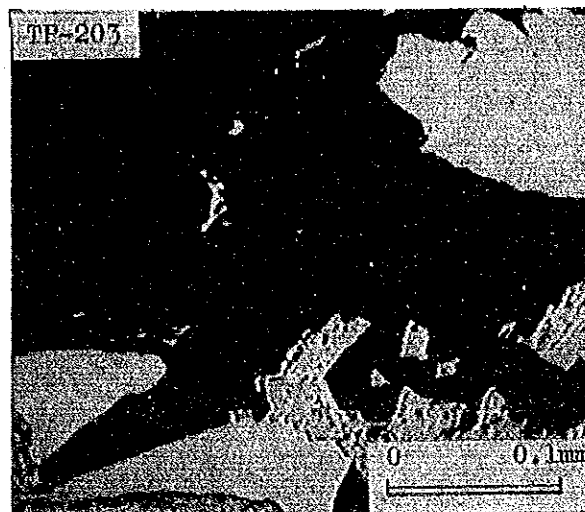


Pb X-ray image

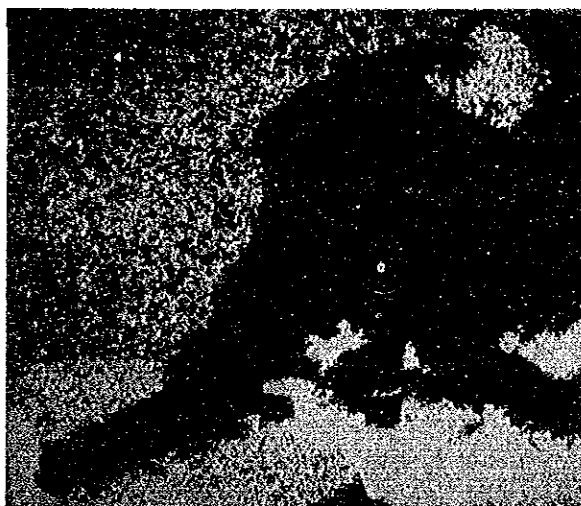
Accelerating voltage: 15 KV
Electron absorbed current: 0.1 uA



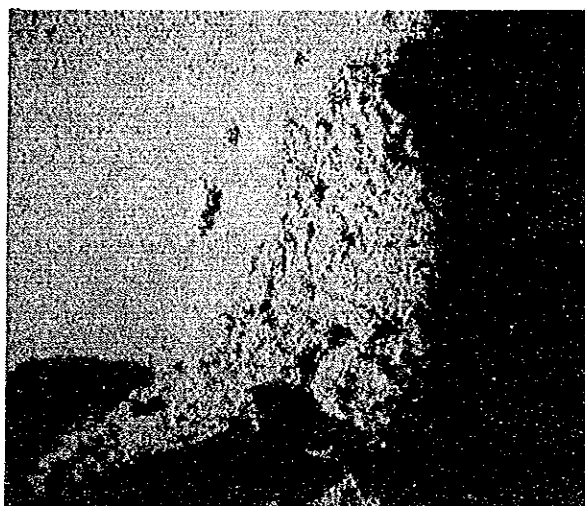
Zn X-ray image



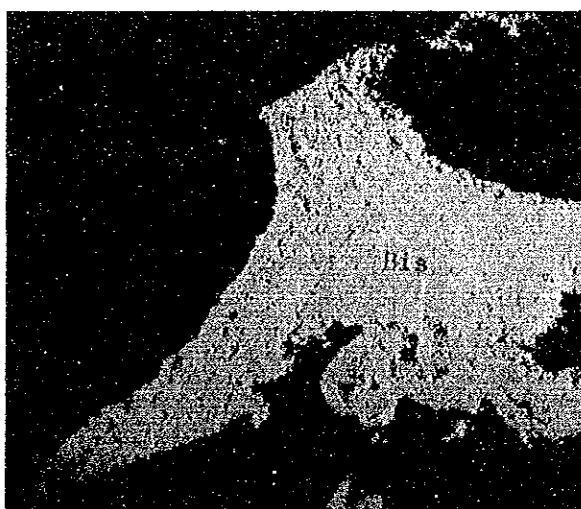
Absorbed electron image



Fe X-ray image



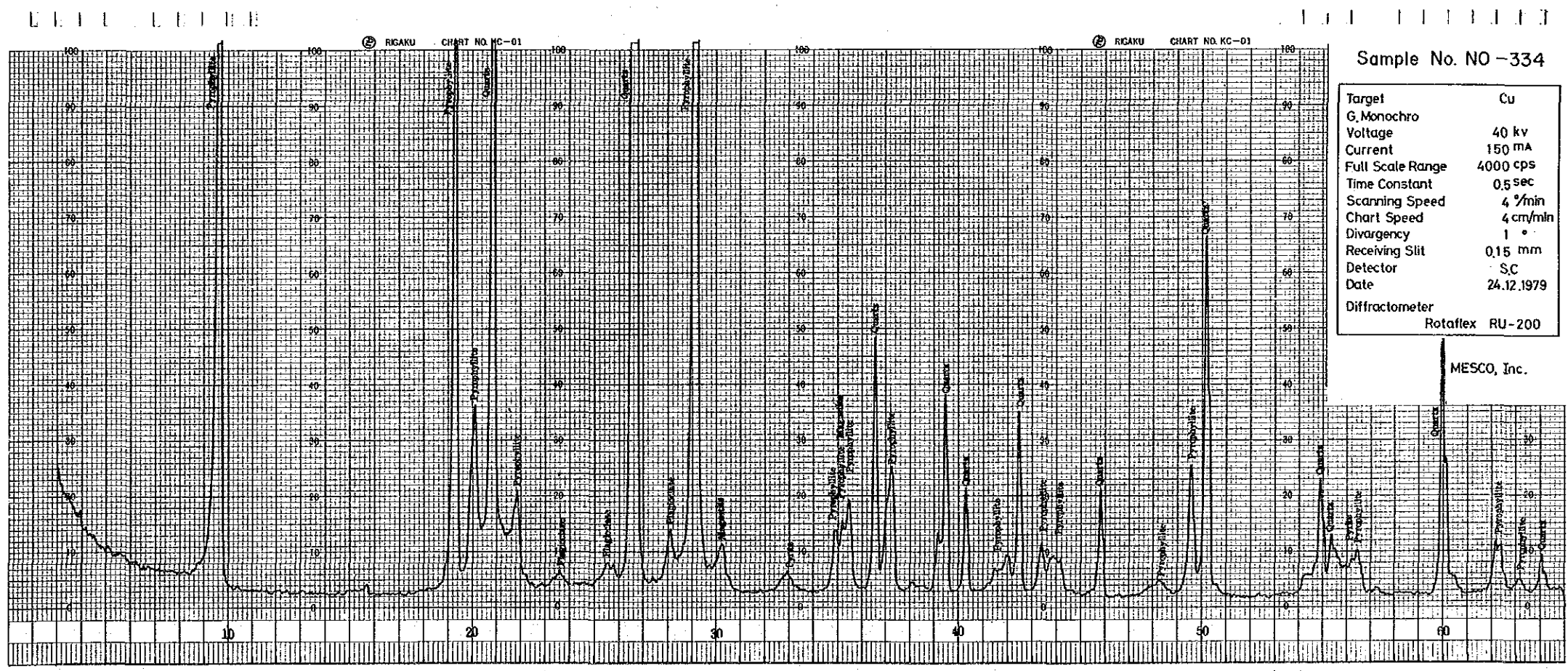
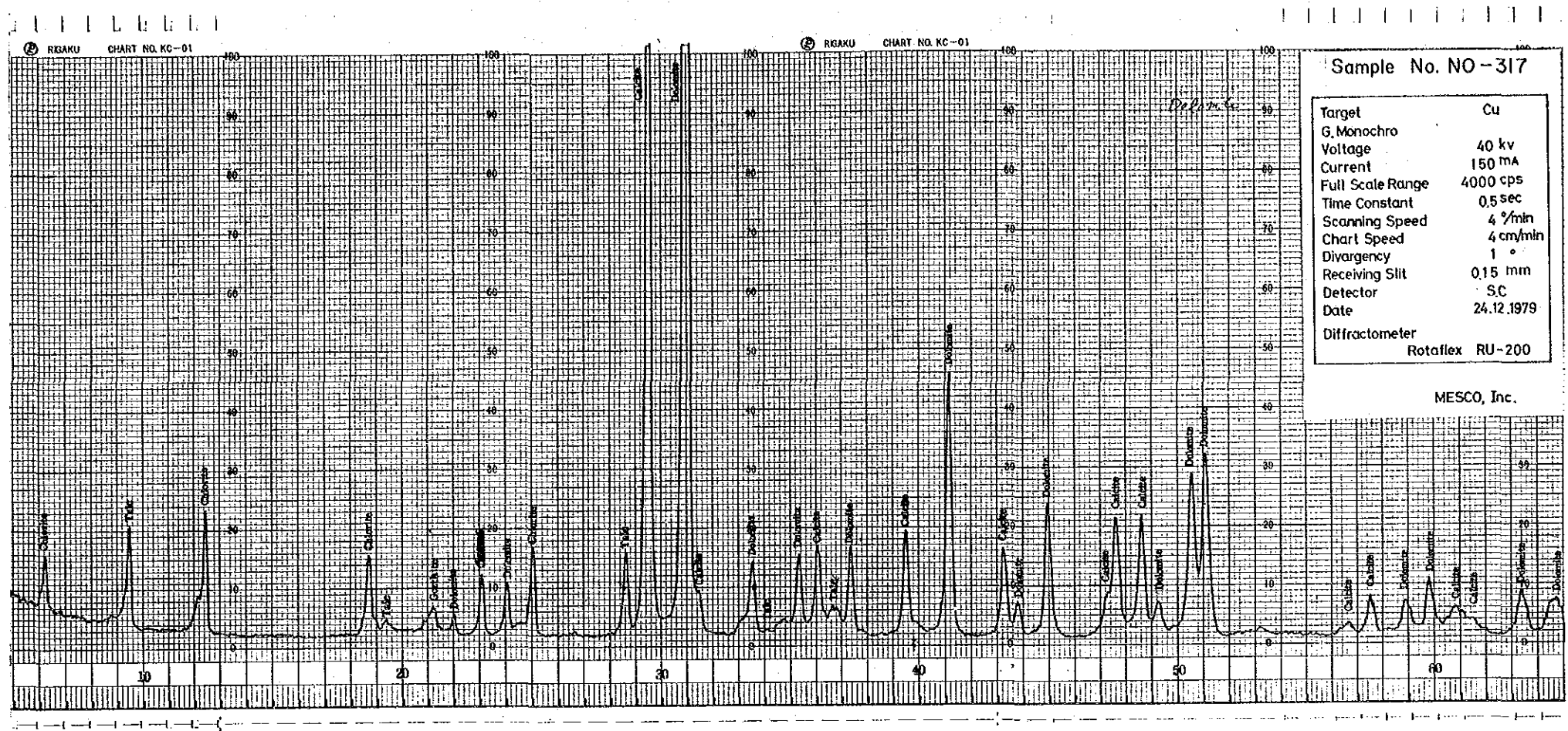
S X-ray image

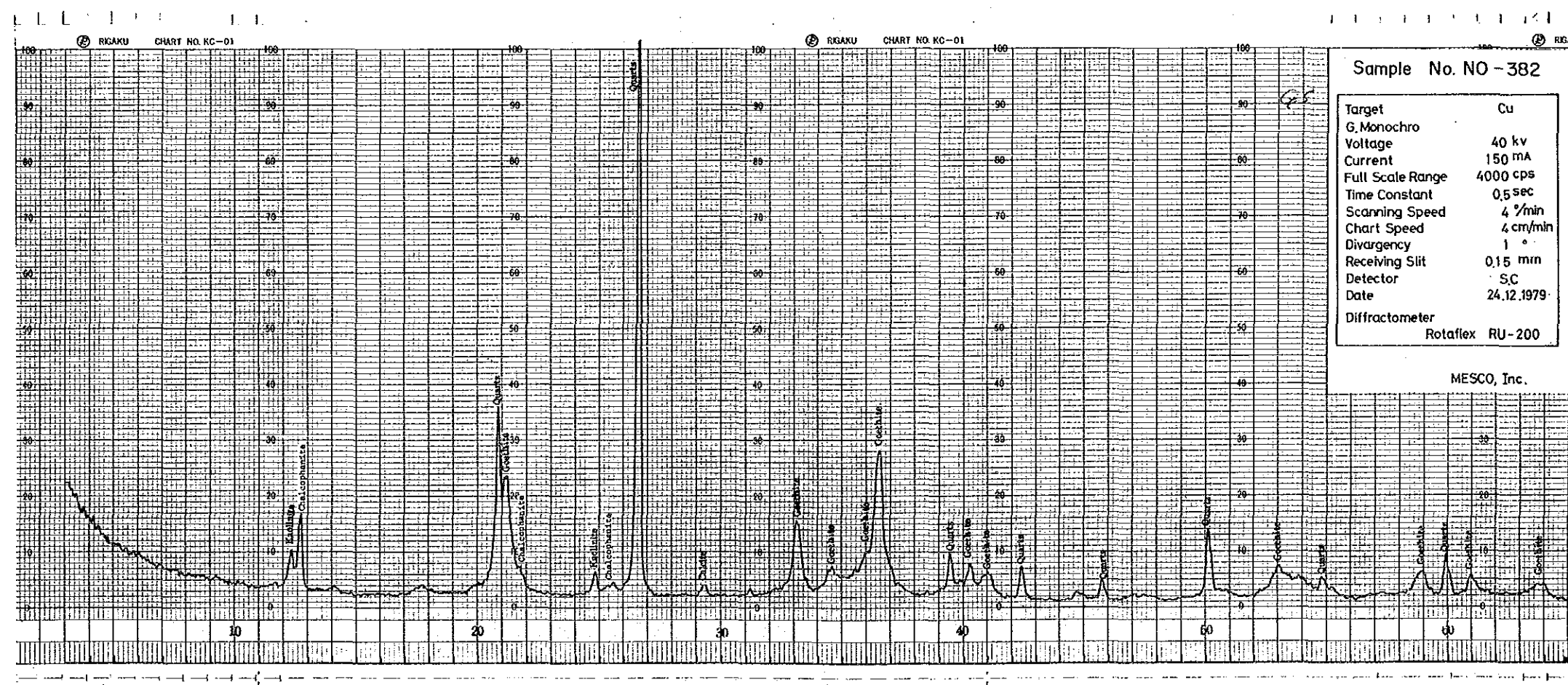
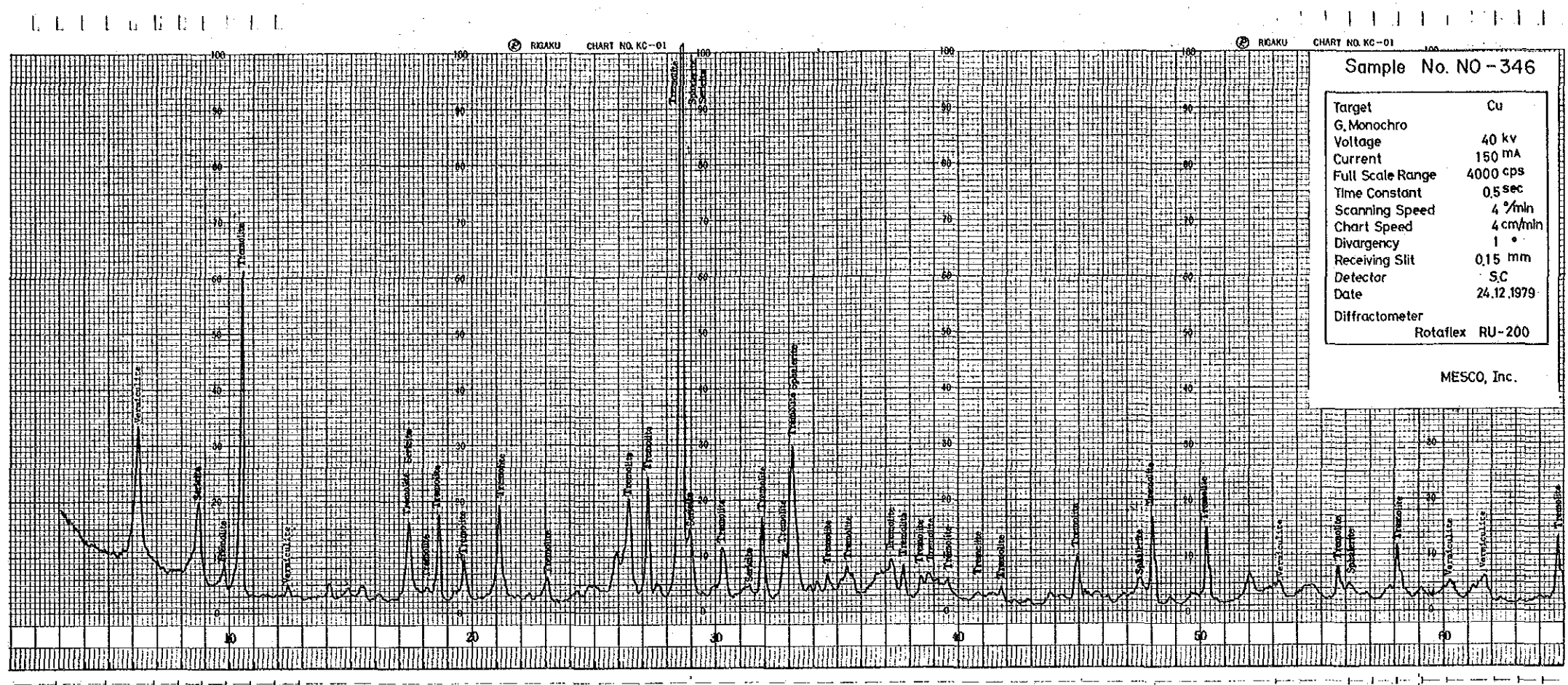


Bi X-ray image

Accelerating voltage: 25 KV
Electron absorbed current: 0.2 uA

A. I-5 Charts of X-ray diffraction test





A. I-6 Assay results of ore samples

(1) Ore samples

No.	Sample No.	Location	Geological Index	Cu (%)	Pb (%)	Zn (%)	Ag(o/t)	Soluble Zn in Hcl
1	NO-304	IC-5	St-Ls	0.53	0.12	32.03	56	-
2	NO-306	IC-5	St-Sk	4.05	0.06	0.90	147	-
3	NO-307	IC-5	St-Or	0.33	0.45	21.62	50	-
4	NO-308	IC-5	St-Or	0.65	0.18	32.43	84	-
5	NO-314	IC-4	St-Sk	0.12	0.03	5.00	5	-
6	NO-315	IC-4	St-Sk	0.06	0.02	5.95	3	-
7	NO-320	G4	St-Or	0.03	1.75	2.90	17	-
8	NO-342	G4	Cz-Gs	0.01	0.05	0.04	1	-
9	NO-346	G4	St-Sk	0.05	0.05	0.03	2	-
10	NO-351	G4	St-Gs	0.47	0.02	0.10	32	-
11	NO-352	G4	St-Sk	0.66	0.45	0.80	128	-
12	NO-361	G3	Jm-Or	0.01	0.02	0.01	tr	-
13	NO-369	G4	Ph-Or	0.13	2.85	11.80	672	-
14	NO-401	G4	Jm-Or	0.53	30.90	30.30	257	-
15	NO-402	G4	Jm-Sk	0.28	16.72	9.20	145	-
16	NO-403	G4	Jm-Sk	0.26	20.44	8.50	168	-
17	NO-404	G4	Jm-Sk	2.70	0.20	0.44	120	-
18	NO-405	G4	Jm-Or	0.74	0.01	0.04	15	-
19	SO-226	G4	Ph-Sk	0.01	0.05	0.05	5	-
20	SO-228	G4	St-Ls	0.01	0.01	0.02	5	-
21	TO-227	G4	Cz-Or	0.06	4.20	5.35	52	-
22	TP-201	G4	Ph-Or	0.30	0.32	25.63	25	25.58
23	TP-202	G4	Ph-Or	0.04	0.05	3.50	3	3.18
24	TP-203	G4	Ph-Or	0.28	0.07	27.70	9	27.14
25	TP-204	G4	Ph-Or	0.09	0.04	12.64	4	12.64
26	TP-205	G4	Ph-Or	0.01	0.03	0.60	2	0.60
27	TP-206	G4	Ph-Or	0.01	0.05	0.27	1	0.26
28	TP-207	G4	Ph-Or	0.19	0.05	22.75	9	21.79
29	TP-208	G4	Ph-Or	0.14	0.05	17.02	4	17.00
30	TP-209	G4	Ph-Or	0.64	0.15	30.13	68	30.09
31	TP-210	G4	Ph-Or	0.42	0.40	30.40	95	26.39
32	TP-211	G4	Ph-Or	0.22	0.10	28.43	20	28.04
33	TP-212	G4	Ph-Or	0.34	0.04	17.72	13	17.65
34	TP-213	G4	Ph-Or	0.18	0.14	17.72	55	12.95
35	TP-214	G4	Ph-Or	0.23	0.05	20.40	6	19.17
36	TP-215	G4	Ph-Or	0.05	0.88	8.80	27	8.65

Abbreviation

Jm Jumasha formation

Ph Pariahuanca formation

Cz Carhuz formation

St Santa formation

Or Ore

Sk Skarn

Gs Gossan

Ls Limestone

(2) Composite samples

No.	Composite Samples No.	No. of Original Samples	Ag Grade (g/t)
1	IC-501	IC-501	2
2	IC-502-03	IC-502, 503	10
3	IC-504-06	IC-504, 505, 506	3
4	IC-507-08	IC-507, 508	10
5	IC-509	IC-509	25
6	IC-510	IC-510	3
7	IC-511	IC-511	18
8	IC-512	IC-512	8
9	IC-514-16	IC-514, 515, 516	15
10	IC-517-18	IC-517, 518	18
11	IC-519-20	IC-519, 520	275
12	IC-601-02	IC-601, 602	3
13	IC-603-06	IC-603, 604, 605, 606	6
14	IC-607-10	IC-607, 608, 609, 610	10
15	IC-611-13	IC-611, 612, 613	10
16	IC-614-16	IC-614, 615, 616	6
17	IC-617-19	IC-617, 618, 619	1
18	IC-620-22	IC-620, 621, 622	3
19	IC-623-26	IC-623, 624, 625, 626	40
20	IC-627-30	IC-627, 628, 629, 630	17
21	IC-633-34	IC-633, 634	6
22	IC-635-38	IC-635, 636, 637, 638	26
23	IC-639-43	IC-639, 640, 641, 642, 643	10
24	IC-644-46	IC-644, 645, 646	15

Composite samples were prepared using original samples in proportion to the sampling lengths.

A. I-7 Assay results of geochemical samples

GEOLOGICAL INDEX

FORMATION

Qt Quaternary
Cd Celendin formation
Jm Jumasha formation
Ph Pariahuanca formation
St Santa formation
Cm Chimu formation
Ig Igneous rocks

SEDIMENTARY ROCK

Do Dolostone
Ls Limestone
Mr Marl
Qz Quartzite

IGNEOUS ROCK

Dc Dacite, Porphyrite
Ry Phylite, Quartz porphyry, Granite porphyry
Dr Diorite
Tn Tonalite, Granodiorite, Granite
Ald Altered rock

MINERALIZATION

Or Ore
Gs Gossan

Assay Results of Geochemical Samples

(1) Rock Samples

No.	Sample No.	Location	Geological Index	Cu (ppm)	Pb (ppm)	Zn (ppm)
1	NO-301	IC-5	St-Ls	12	66	490
2	NO-302	IC-5	St-Ls	7	43	93
3	NO-303	IC-5	St-Gs	0.17(%)	0.53(%)	1.34(%)
4	NO-310	IC-5	St-Ls	19	40	249
5	NO-311	IC-5	Cm-Qz	152	427	77
6	NO-312	G4	St-Gs	0.49(%)	0.18(%)	0.35(%)
7	NO-313	G4	St-Ald	9	166	25
8	NO-317	G4	St-Gs	0.01(%)	0.04(%)	2.16(%)
9	NO-323	IC-5	St-Ls	9	36	34
10	NO-325	IC-5	St-Gs	0.06(%)	0.06(%)	0.31(%)
11	NO-329	G4	St-Ls	9	33	35
12	NO-330	G4	St-Ls	5	40	33
13	NO-332	G4	Ig-Ry	5	23	8
14	NO-333	G4	Cm-Gs	221	40	28
15	NO-334	G4	Ig-Ry	1	10	8
16	NO-335	G4	Cm-Qz	2	7	10
17	NO-341	G4	Jm-Ls	5	43	13
18	NO-343	G4	Ig-Ry	4	10	63
19	NO-345	G4	St-Ls	7	40	77
20	NO-347	G4	St-Ls	18	60	40
21	NO-350	G4	Ig-Tn	25	10	36
22	NO-364	G4	Cd-Mr	13	63	101
23	NO-375	G3	St-Ls	13	156	157
24	SO-206	G4	St-Ls	7	33	16
25	SO-208	G4	Ig-Ry	3	195	17
26	SO-217	G4	Jm-Ls	5	33	11
27	SO-218	G4	Ph-Ls	6	50	44
28	SO-219	G4	St-Ls	11	46	29
29	SO-220	G4	St-Ls	11	43	27
30	SO-221	G4	St-Ls	5	40	13

(1) Rock Samples

No.	Sample No.	Location	Geological Index	Cu (ppm)	Pb (ppm)	Zn (ppm)
31	S0-222	G4	Ph-Ls	10	40	30
32	S0-223	G4	Ph-Ls	6	36	30
33	S0-224	G4	Ph-Ls	7	40	100
34	S0-227	G4	Ig-Dr	24	36	116
35	S0-229	G4	Ph-Ls	5	36	69

(2) Gossans

No.	Sample No.	Location	Geological Index	Cu (%)	Pb (%)	Zn (%)	Ag (g/t)*
36	IC-501	IC-4	St-Gs	0.02	0.12	0.03	2
37	IC-502	IC-4	St-Gs	0.06	0.05	0.04	10
38	IC-503	IC-4	St-Gs	0.07	0.09	0.04	
39	IC-504	IC-4	St-Gs	0.02	0.03	0.15	3
40	IC-505	IC-4	St-Gs	0.01	0.02	0.20	
41	IC-506	IC-4	St-Gs	0.02	0.03	0.23	
42	IC-507	IC-4	St-Gs	0.50	0.06	3.25	10
43	IC-508	IC-4	St-Gs	0.33	0.03	10.50	
44	IC-509	IC-4	St-Gs	0.65	0.05	13.00	25
45	IC-510	IC-4	Qt-Gs	0.07	0.02	0.05	3
46	IC-511	IC-3	St-Gs	0.03	0.85	1.60	18
47	IC-512	IC-3	St-Gs	0.53	0.05	2.20	8
48	IC-514	IC-4	St-Gs	0.02	0.06	0.04	15
49	IC-515	IC-4	St-Gs	0.02	0.15	0.03	
50	IC-516	IC-4	St-Gs	0.02	0.04	0.04	
51	IC-517	IC-4	St-Gs	0.05	0.06	0.03	18
52	IC-518	IC-4	St-Gs	0.04	0.05	0.02	
53	IC-519	IC-4	St-Gs	0.07	0.06	0.03	275
54	IC-520	IC-4	St-Gs	0.03	0.50	0.03	
55	IC-601	IC-5	St-Gs	0.02	0.75	3.40	3
56	IC-602	IC-5	St-Gs	0.10	0.02	0.12	
57	IC-603	IC-5	St-Gs	0.01	0.03	0.61	6
58	IC-604	IC-5	St-Gs	0.02	0.05	1.10	
59	IC-605	IC-5	St-Gs	0.08	0.13	3.10	
60	IC-606	IC-5	St-Gs	0.02	0.12	3.20	
61	IC-607	IC-5	St-Gs	0.01	0.04	1.85	10
62	IC-608	IC-5	St-Gs	0.01	0.04	1.08	
63	IC-609	IC-5	St-Gs	tr	0.06	0.80	
64	IC-610	IC-5	St-Gs	tr	0.10	0.90	
65	IC-611	IC-5	St-Gs	0.03	0.06	2.08	10
66	IC-612	IC-5	St-Gs	tr	0.11	1.00	
67	IC-613	IC-5	St-Gs	tr	0.03	0.70	

(2) Gossans

No.	Sample No.	Location	Geological Index	Cu (%)	Pb (%)	Zn (%)	Ag (g/t)*
68	IC-614	IC-5	St-Gs	tr	0.04	0.75	6
69	IC-615	IC-5	St-Gs	tr	0.04	0.65	
70	IC-616	IC-5	St-Gs	tr	0.05	1.06	
71	IC-617	IC-5	St-Gs	0.01	0.04	2.30	1
72	IC-618	IC-5	St-Gs	tr	0.02	2.45	
73	IC-619	IC-5	St-Gs	0.01	0.10	1.50	
74	IC-620	IC-5	St-Gs	0.01	0.12	1.60	3
75	IC-621	IC-5	St-Gs	0.01	0.08	2.10	
76	IC-622	IC-5	St-Gs	tr	0.10	0.80	
77	IC-623	IC-5	St-Gs	0.18	0.20	2.30	40
78	IC-624	IC-5	St-Gs	0.09	0.10	2.90	
79	IC-625	IC-5	St-Gs	0.41	0.15	2.10	
80	IC-626	IC-5	St-Gs	0.31	0.04	3.40	
81	IC-627	IC-5	St-Gs	0.01	0.04	0.50	17
82	IC-628	IC-5	St-Gs	0.24	0.05	0.90	
83	IC-629	IC-5	St-Gs	0.19	0.04	1.50	
84	IC-630	IC-5	St-Gs	0.13	0.05	1.90	
85	IC-631	IC-5	St-Gs	0.02	0.10	0.60	-
86	IC-632	IC-4	St-Gs	0.01	0.15	0.60	-
87	IC-633	IC-5	St-Gs	0.01	0.05	1.10	6
88	IC-634	IC-5	St-Gs	0.01	0.06	1.50	26
89	IC-635	IC-5	St-Gs	0.01	0.06	1.40	
90	IC-636	IC-5	St-Gs	0.01	0.07	1.40	
91	IC-637	IC-5	St-Gs	0.01	0.08	1.70	
92	IC-638	IC-5	St-Gs	0.01	0.05	1.20	10
93	IC-639	IC-5	St-Gs	0.01	0.14	3.50	
94	IC-640	IC-5	St-Gs	0.01	0.19	1.80	
95	IC-641	IC-5	St-Gs	0.01	0.22	1.10	
96	IC-642	IC-5	St-Gs	0.01	0.28	1.50	
97	IC-643	IC-5	St-Gs	0.01	0.55	3.50	15
98	IC-644	IC-5	St-Gs	0.01	0.08	1.10	
99	IC-645	IC-5	St-Gs	0.02	0.10	1.50	

(2) Gossans

No.	Sample No.	Location	Geological Index	Cu (%)	Pb (%)	Zn (%)	Ag (g/t)£
100	IC-646	IC-5	St-Gs	0.03	0.40	2.30	15
101	IC-647	IC-5	St-Gs	0.02	0.15	0.14	-
102	IC-648	IC-5	St-Gs	0.15	0.04	0.27	-
103	IC-649	IC-5	St-Gs	0.46	0.01	0.05	-
104	IC-650	IC-5	St-Gs	0.39	0.02	0.09	-
105	IC-651	IC-5	St-Gs	0.04	0.72	1.80	-
106	IC-652	IC-5	St-Gs	0.01	0.04	0.09	-
107	IC-653	IC-5	St-Gs	0.33	0.04	0.04	-
108	IC-654	IC-5	St-Gs	0.03	0.60	4.80	-

* Assays of Ag have been done using composite samples.

(3) Stream Sediments

No.	Sample No.	Location	Cu (ppm)	Pb (ppm)	Zn (ppm)
1	SD-201	G4	27	24	181
2	SD-202	G4	19	15	93
3	SD-203	G4	8	6	81
4	SD-204	G4	69	72	415
5	SD-205	G4	165	33	162
6	SD-206	G4	9	24	61
7	SD-207	G4	13	12	55
8	SD-208	G4	16	24	221
9	SD-209	G4	17	39	89
10	SD-210	G4	11	18	75
11	SD-211	G4	24	26	44
12	SD-212	G3	8	56	30
13	SD-213	G3	19	58	204
14	SD-214	G3	7	108	160
15	SD-215	G3	19	23	100
16	SD-216	G3	13	15	43
17	SD-217	G3	11	26	100
18	SD-218	G3	4	Tr	105
19	SD-219	G3	19	29	87
20	SD-220	G3	11	41	73

APPENDICES
PART II
GEOPHYSICAL DATA

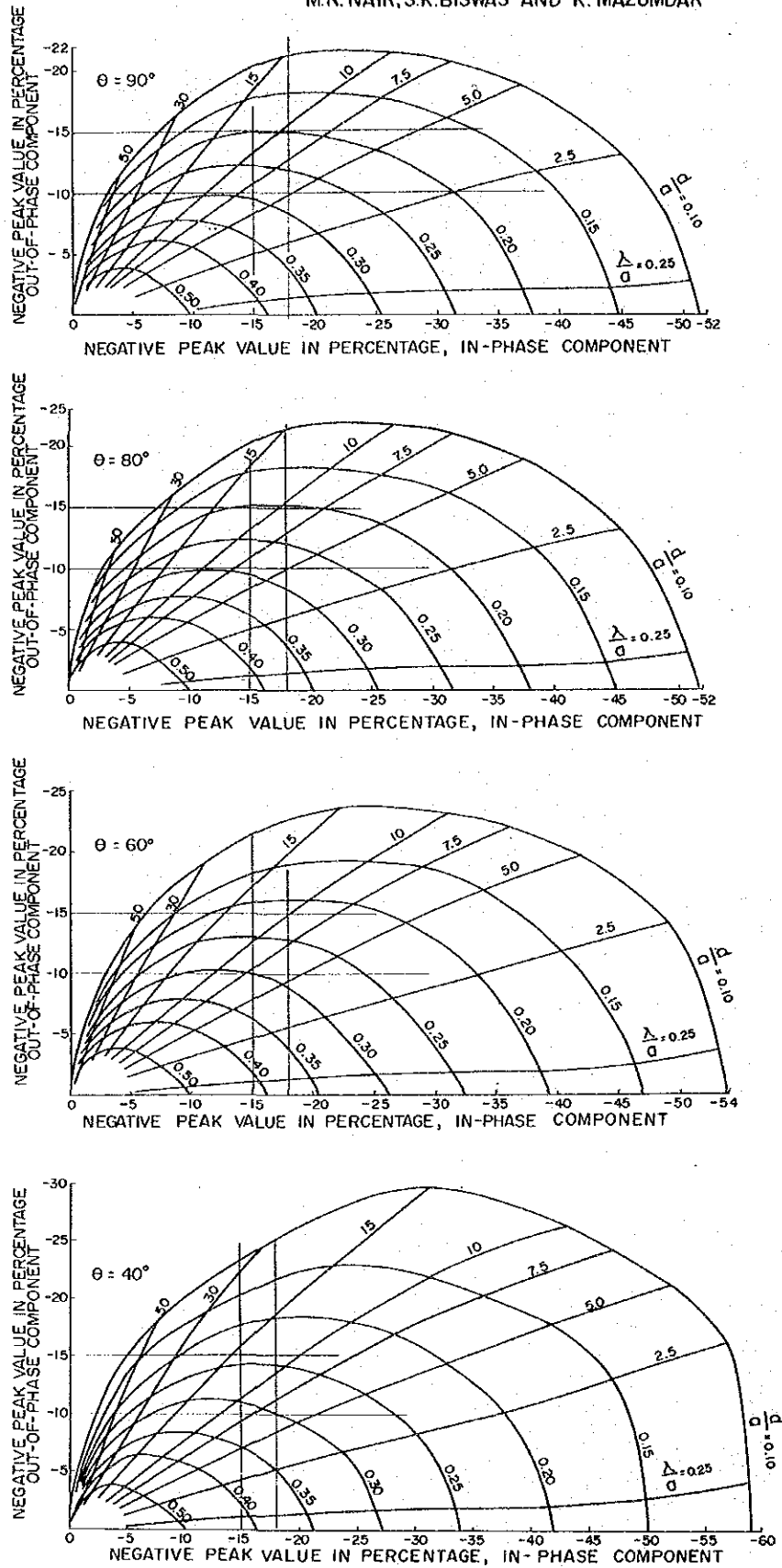


Fig. II-21. Phase diagram of the negative peak response of horizontal-loop profiling over conducting half-plane

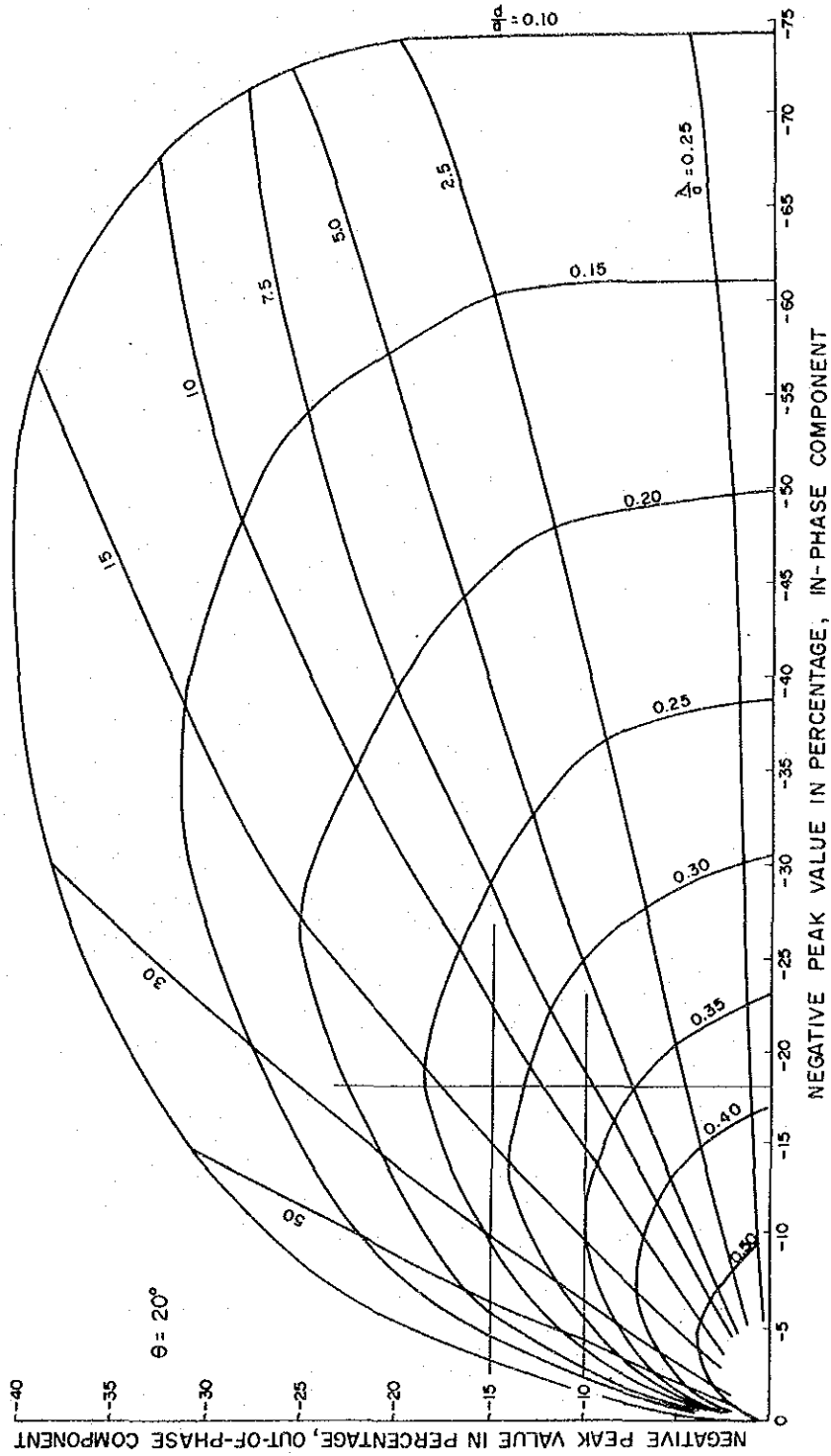


Fig. II - 21. Phase diagram of the negative peak response of horizontal-loop profiling over conducting half-plane

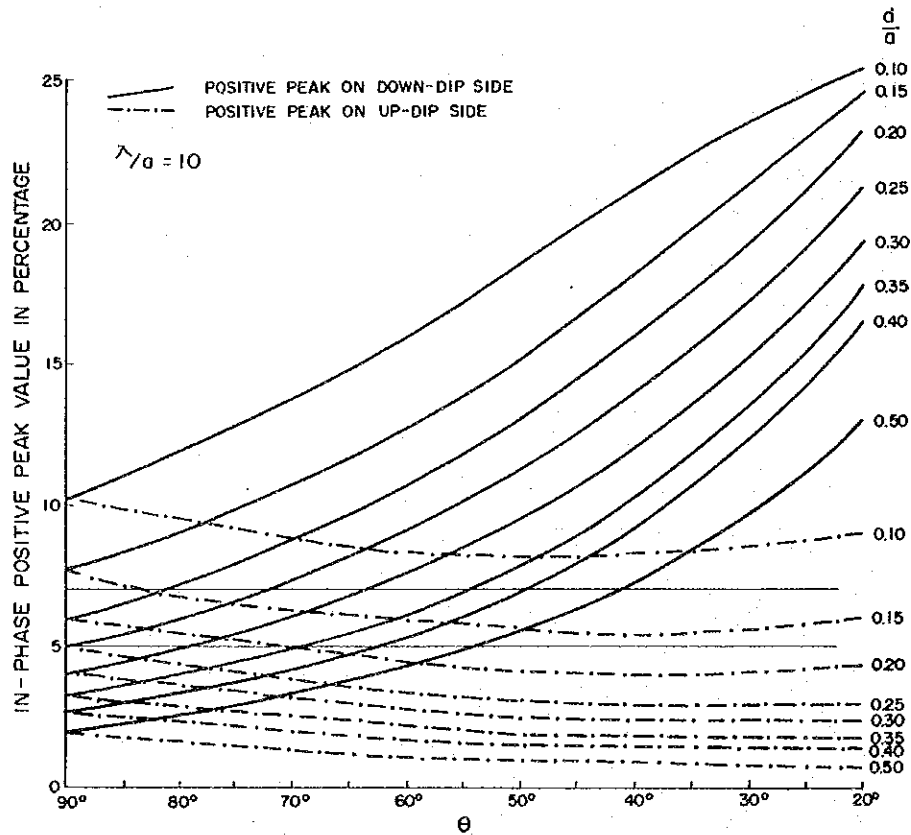
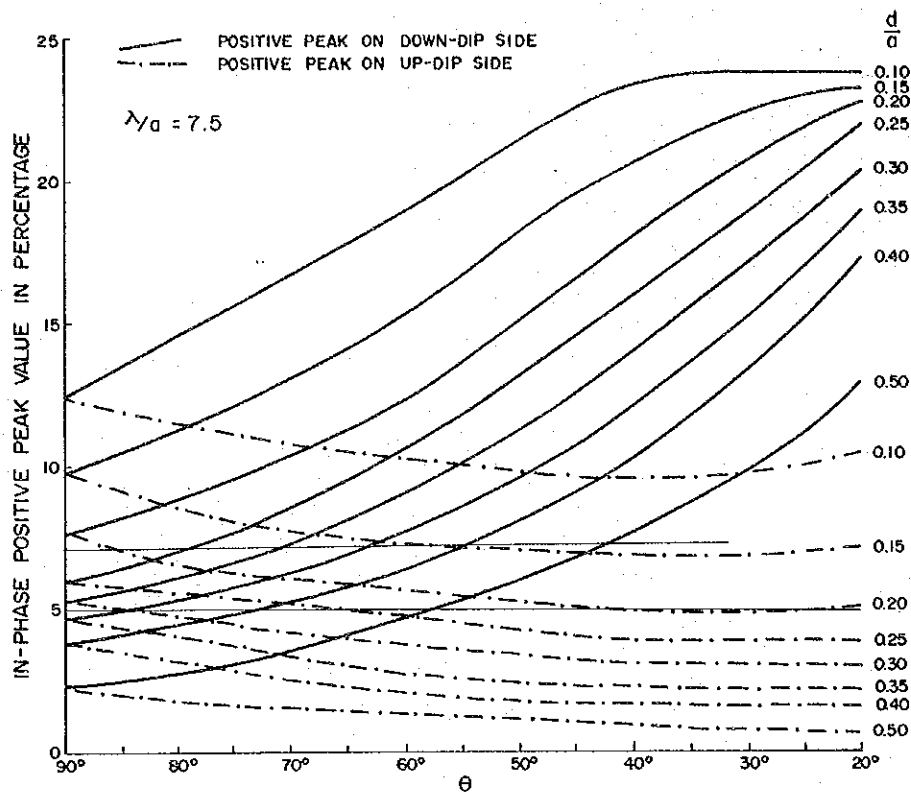


Fig. II - 22. Variation of the In-phase positive peak response with the dip and depth of conducting half-plane

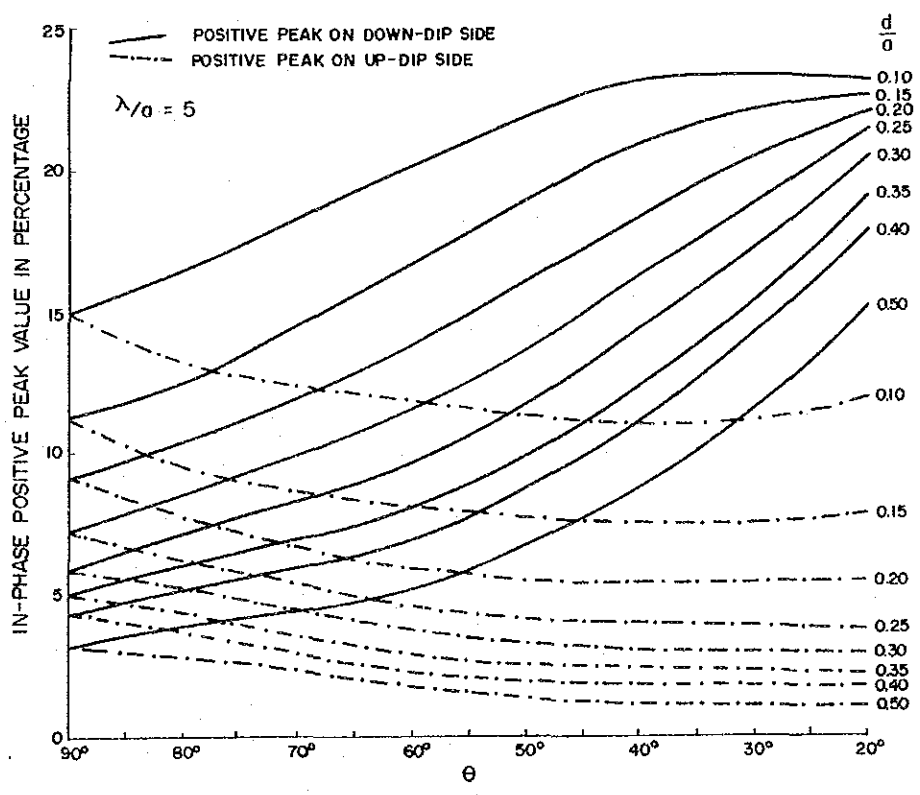
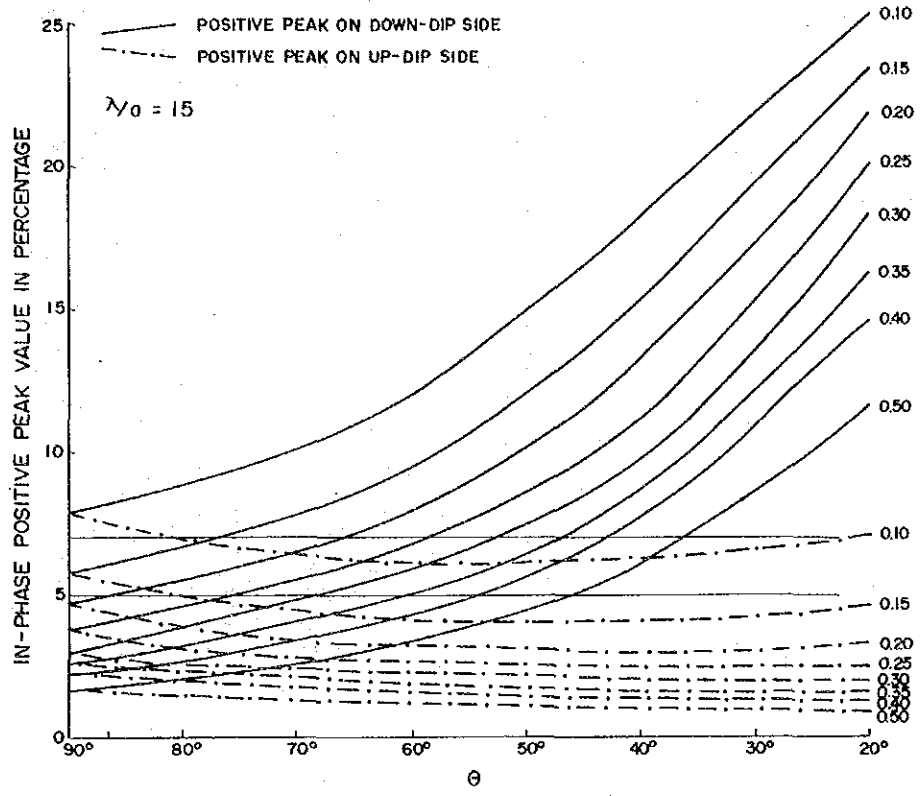


Fig. II-22. Variation of the In-phase positive peak response with the dip and depth of conducting half-plane

ELECTROMAGNETIC RESPONSE OF TILTED CONDUCTING HALF-PLANES

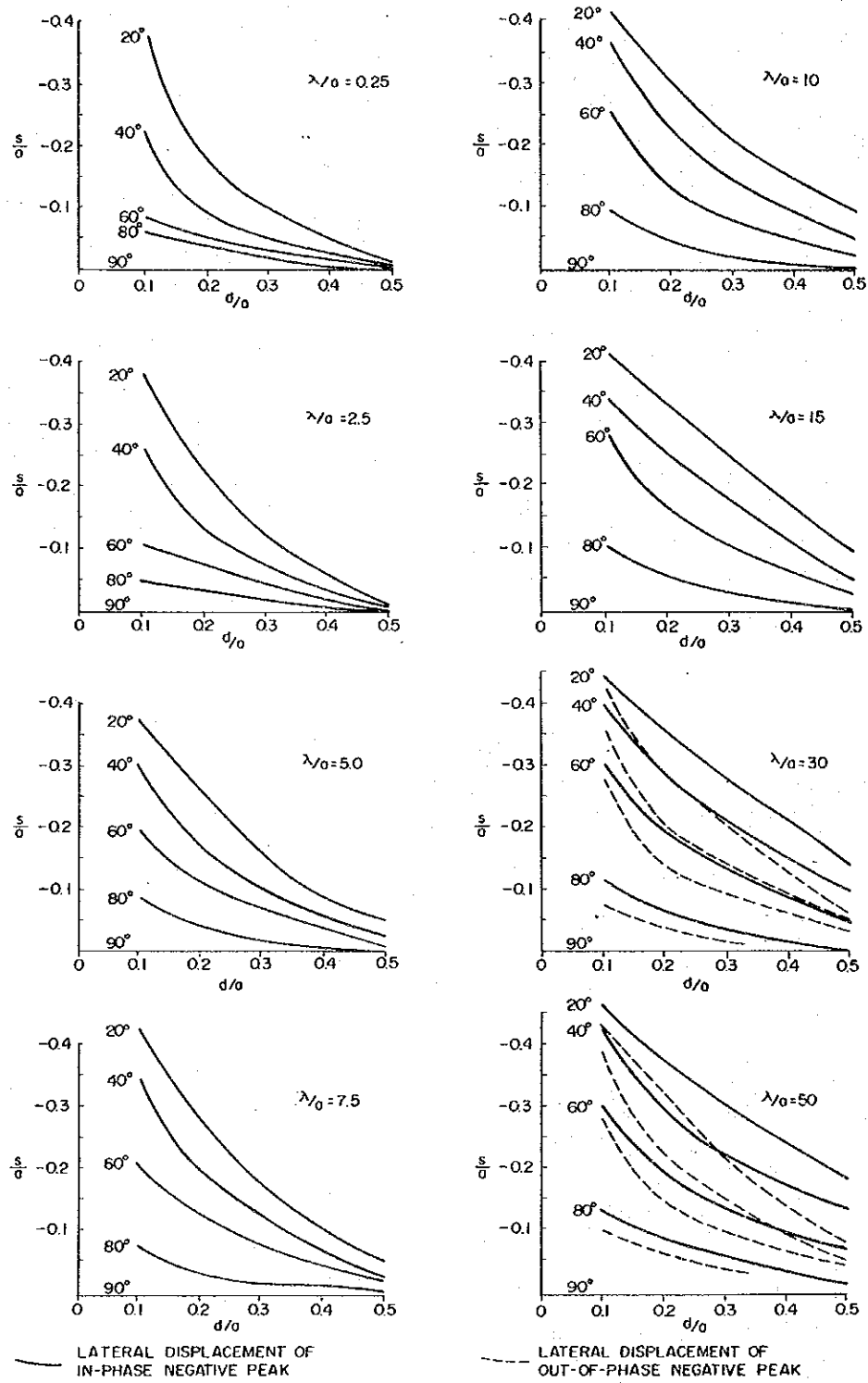


Fig. II-23. Lateral displacement of the negative peak response from the top edge of the conductor

APPENDICES
PART III
DRILLING DATA

A. III-1 Microscopic observation of the thin sections

(1)

Sample No.	Rock Type	Microscopic Observation
CB-01-008	Calcareous sandstone (Cz)	The rock shows granular texture. Main constituent minerals are quartz and carbonates. Both of them are very fine-grained less than 0.05 mm in size. Carbonates are euhedral and quartz is subhedral. Quartz is a little more abundant than carbonates in quantity.
CB-01-032	Pb-Zn-bearing siderite (St)	This rock is nearly same as the sample CB-01-008, though carbonates are contained more abundant. Glassy material is contained in part.
CB-01-039	Pb-Zn-bearing siderite (St)	This rock is composed of carbonates and minor amount of felsic minerals. Carbonates are usually very fine-grained about 10 μ m, but in recrystallized parts the grain size is up to 0.5 mm. The recrystallized carbonates have close coexisting relation with clay minerals seemed to be kaolinite and quartz. Fine-grained opaque minerals occur in dotted-form.
CB-01-053	Pb-Zn-bearing siderite (St)	Main constituent minerals are carbonates and quartz. Carbonates show various grain size from 0.5 mm to 0.02 mm and veinlet-form in parts. Quartz shows euhedral grains and makes aggregates. Opaque minerals, most of them seemed to be crystals of sphalerite, are scattered in the rock.
CB-01-100	Calcareous shale (St)	The rock shows fine clastic texture. As fragment, anhedral quartz of about 0.1 mm across and euhedral carbonates of 0.05 mm across are observed. Fine-grained matrix is composed of sericite and clay minerals which make banded structure. Opaque minerals occur in dotted-form.
CB-01-151	Pb-Zn-bearing altered rock (St)	The rock is composed of fine-grained felsic minerals with carbonateous materials. Quartz grains and opaque minerals, both of them being about 0.05 mm in size, are scattered. Sphalerite can be seen partly.

Sample No.	Rock Type	Microscopic Observation
CB-03-100	Dolomite (St)	Carbonates are main minerals, which show euhedral various grain sizes from 0.5 mm to 5 µm. Relicts of oolitic texture can be observed in the carbonates aggregates. Banded structure also can be seen. Opaque minerals occur in dotted-form.
CB-03-105	Galena-sphalerite dissemination ore (St)	Main minerals are sphalerite, quartz, chlorite, carbonates (seemed to be siderite) and opaque minerals. Two types of sphalerite occur. One is coarse-grained and dark brown color, which exists with carbonates and opaque minerals (most of them being pyrite). The other is fine-grained and light color, which exists with quartz and chlorite.
CB-03-108	Silicified rock in ore body (St)	This rock is composed of opaque minerals, subhedral quartz, carbonates and minor amount of sphalerite. Brown colored sphalerite is seen included in opaque minerals.
CB-03-111	Silicified rock in ore body (St)	This is nearly same as the sample CB-03-108. While, brownish sphalerite occurs in quartz-carbonates aggregates in part.
CB-03-117	Galena-sphalerite-pyrite brecciated ore (St)	Sphalerite is main mineral on this section, which shows zonal structure and various colors from red to colorless. It coexists with opaque minerals and quartz-kaolinite aggregates. Quartz is euhedral and coexists with fibrous minerals seemed to be kaolinite and very fine-grained carbonates.
CB-03-118	Galena-sphalerite-pyrite brecciated ore (St)	This rock is nearly same as the sample CB-03-117.
CB-03-121	Dolostone (St)	This rock is composed of fine-grained carbonates and minor amount of quartz. The grain size is about 10 µm. Carbonates are stained in light brown color. Two types of carbonate veins are developed. One is yellow stained carbonate vein with sphalerite, and the other is colorless carbonate vein with felsic minerals. The later makes drusy parts.

A. III-2 Microscopic observation of the polished sections

(1)

Sample No.	Rock Type	Microscopic Observation
CB-01-032	Pb-Zn dissemination ore	Sphalerite, galena and pyrite are observed. Galena is dominant in this section. Ore minerals are scattered as dots of less than 0.2 mm in size.
CB-01-039	Pb-Zn dissemination ore	This rock shows the same appearance as sample CB-01-032. Galena is dominant occurring in dotted-form.
CB-01-151	Pb-Zn dissemination ore	Observed ore minerals are galena, sphalerite, pyrite and arsenopyrite. They occur as dotted-form. Galena has close coexisting relation with pyrite and arsenopyrite.
CB-03-105	Galena-sphalerite dissemination ore	This is mainly composed of sphalerite, galena and pyrite, with accessory pyrrhotite and chalcopyrite. In reflected light sphalerite is grey, pyrite is pale yellow and galena is white. The grain size of sphalerite is about 1.0 mm to 0.1 mm in diameter and the large crystals include a small amount of chalcopyrite dots. The crystals of galena show subhedral to anhedral forms and occupy between idiomorphic crystals of pyrite.
CB-03-106	Galena-sphalerite-pyrite ore	Main constituent minerals are pyrite and sphalerite, as accessories; galena, chalcopyrite and pyrrhotite. Sphalerite forms a large crystal, upto 0.8 mm across, which contains exsolution bodies of chalcopyrite, galena and pyrrhotite. Pyrite is replaced partly by marcasite.
CB-03-108	Galena-sphalerite-pyrite ore	Pyrite is the most abundant as ore minerals. Marcasite, arsenopyrite, galena and sphalerite are observed in pyrite mass. Pyrite shows an aggregate of subhedral grains. Arsenopyrite is euhedral. Pyrite seems to have replaced pyrite occurring in the aggregate of pyrite. Minor amount of sphalerite also occurs in aggregate of pyrite.

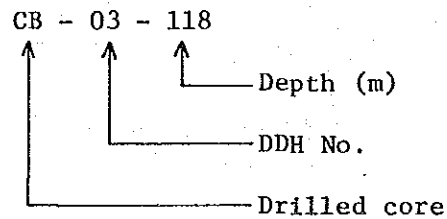
(2)

Sample No.	Rock Type	Microscopic Observation
CB-03-111	Pb-Zn-bearing pyrrhotite-pyrite ore	Constituent minerals are pyrite, pyrrhotite, sphalerite and arsenopyrite in the order of abundance. Accessory minerals are galena and chalcopyrite. Sphalerite is medium-grained euhedral crystals, upto 0.3 mm across, and contain a small amount of inclusions. Galena and chalcopyrite coexist with pyrrhotite of minor amount.
CB-03-113	Galena-sphalerite-pyrrhotite-pyrite ore	This is composed of pyrite, sphalerite, pyrrhotite and minor amount of galena and chalcopyrite. Sphalerite forms anhedral crystals and occupies between idiomorphic crystals of pyrite.
CB-03-115	Pb-Zn-bearing pyrite-pyrrhotite ore	The most abundant mineral is pyrrhotite, and next abundant minerals are pyrite, sphalerite and galena. Sphalerite is usually 0.15 mm across and forms euhedral crystals containing many exsolution bodies of pyrrhotite.
CB-03-117	Galena-sphalerite-pyrite brecciated ore	Main constituent minerals are pyrite, sphalerite, galena and marcasite. Sphalerite shows anhedral crystals and occupies between large idiomorphic crystals of pyrite. Galena is hypidiomorphic and occurs in coexisting with sphalerite.
CB-03-118	Galena-sphalerite-pyrite brecciated ore	It is composed mainly of pyrite and sphalerite accompanied with galena and chalcopyrite. Pyrite shows mostly euhedral crystals upto 0.4 mm across containing a minor amount of galena. Sphalerite shows anhedral and does not contain exsolution bodies of chalcopyrite.

A. III-3 Photomicrographs

A. III-3-1 Polished section

Sample Number	Rock Type
CB - 01 - 151	Pb - Zn dissemination ore
CB - 03 - 105	Galena - sphalerite dissemination ore
CB - 03 - 113	Galena - sphalerite - pyrrhotite - pyrite ore
CB - 03 - 115	Pb - Zn - bearing pyrite - pyrrhotite ore
CB - 03 - 117	Galena - sphalerite - pyrite brecciated ore
CB - 03 - 118	Galena - sphalerite - pyrite brecciated ore



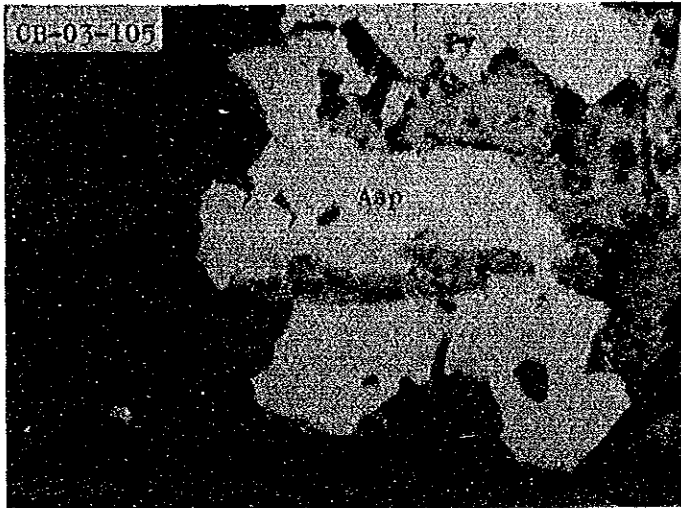
Abbreviations

Gl : Galena
 Sp : Sphalerite
 Py : Pyrite
 Po : Pyrrhotite
 Asp : Arsenopyrite



Sample No. CB-01-151

Rock Type: Pb-Zn
dissemination ore



Sample No. CB-03-105

Rock Type: Galena-sphalerite
dissemination ore



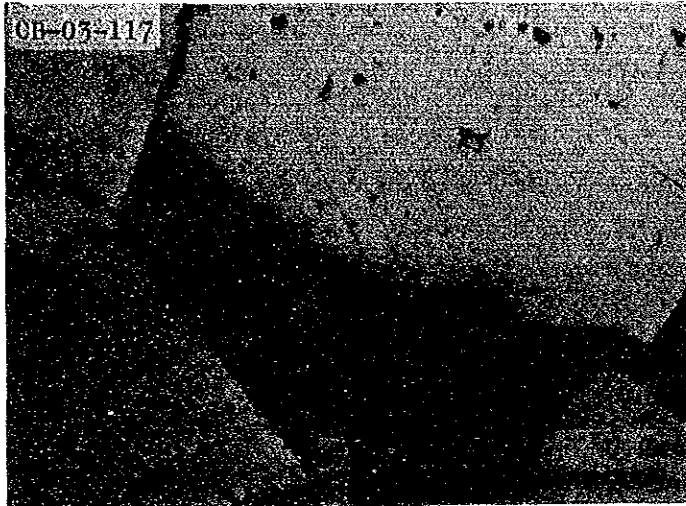
Sample No. CB-03-113

Rock Type: Galena-sphalerite-
pyrrhotite-pyrite ore



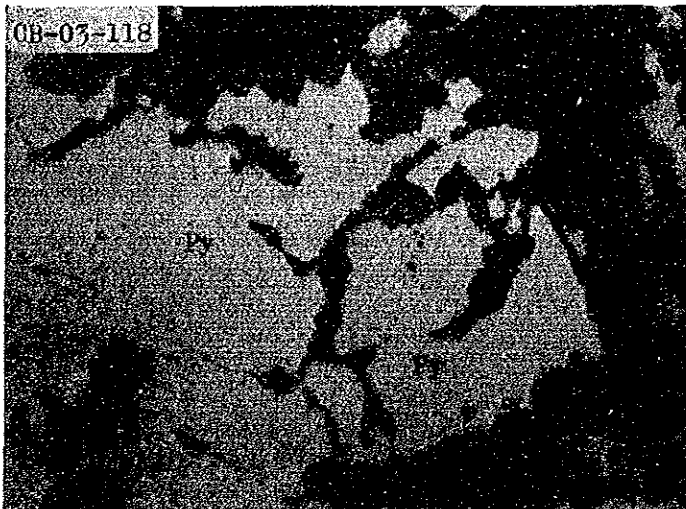
Sample No. CB-03-115

Rock Type: Pb-Zn - bearing
pyrite-pyrrhotite ore



Sample No. CB-03-117

Rock Type: Galena-sphalerite-
pyrite brecciated ore

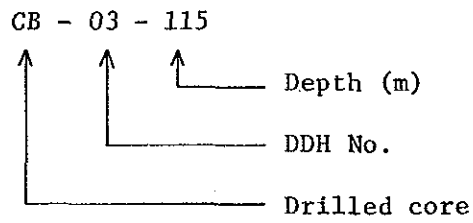


Sample No. CB-03-118

Rock Type: Galena-sphalerite-
pyrite brecciated ore

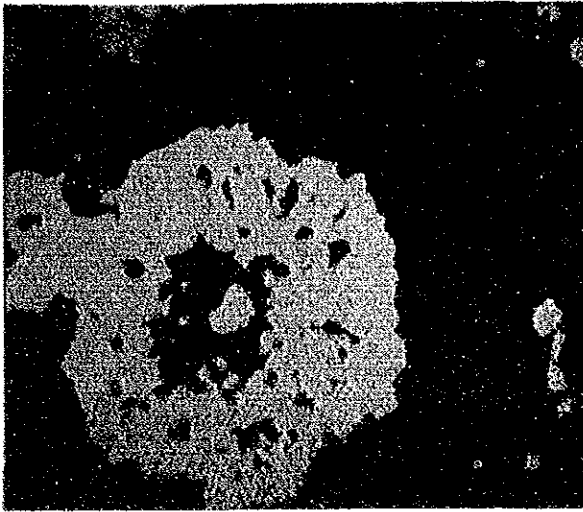
A. III-3-2 EPMA analysis

Sample Number	Result of EPMA Analysis
CB - 03 - 115	Sphalerite and galena are seen in pyrrhotite, and small grains of pyrrhotite are contained in sphalerite

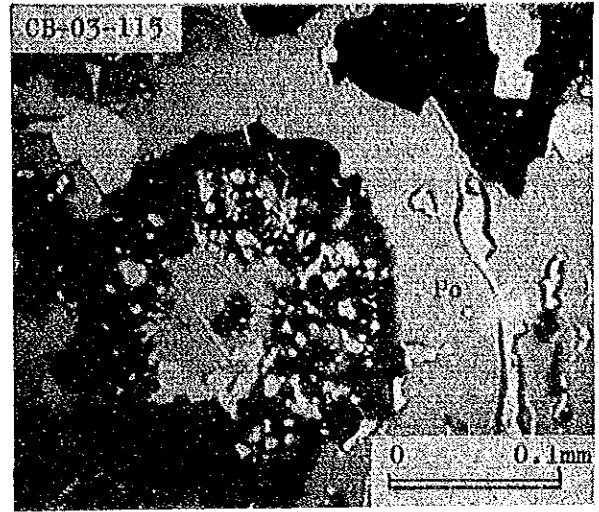


Abbreviations

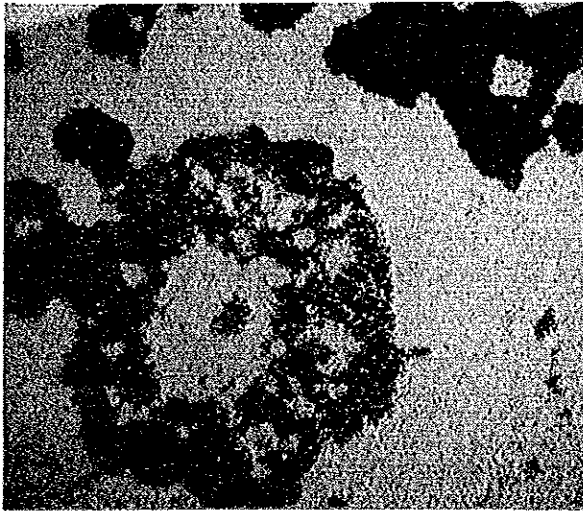
- G1 : Galena
- Sp : Sphalerite
- Po : Pyrrhotite



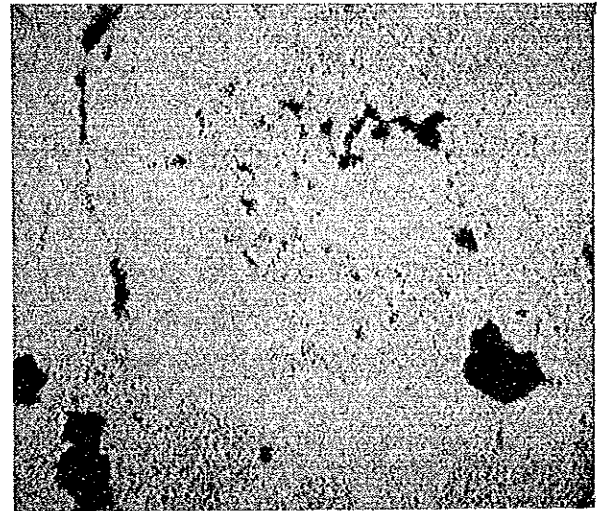
Zn X-ray image



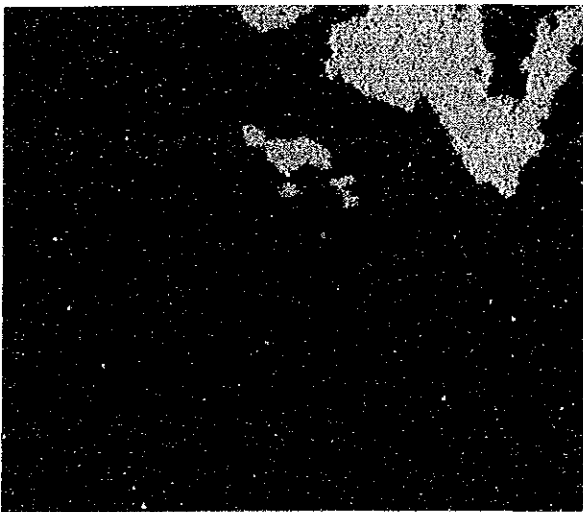
Absorbed electron image



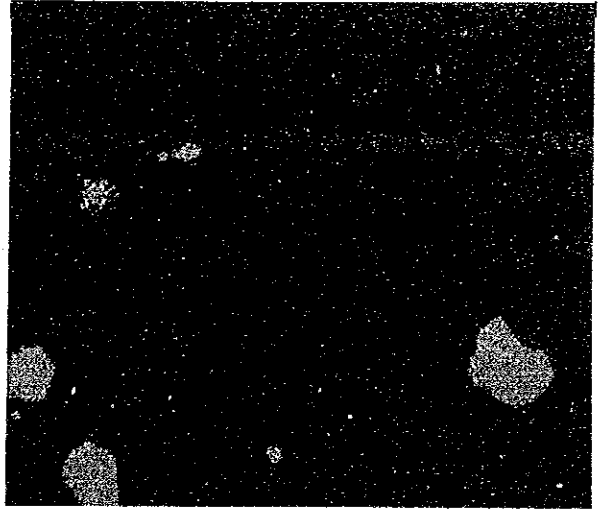
Fe X-ray image



S X-ray image

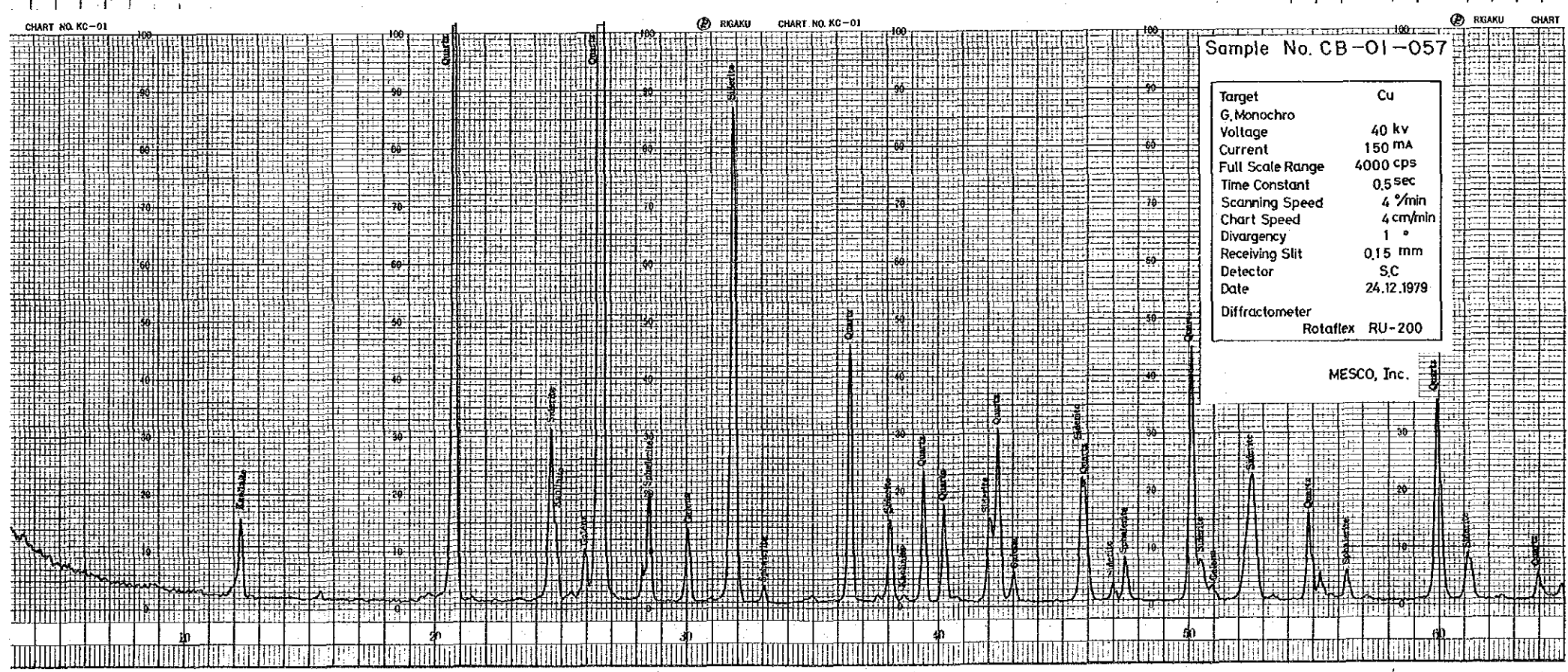
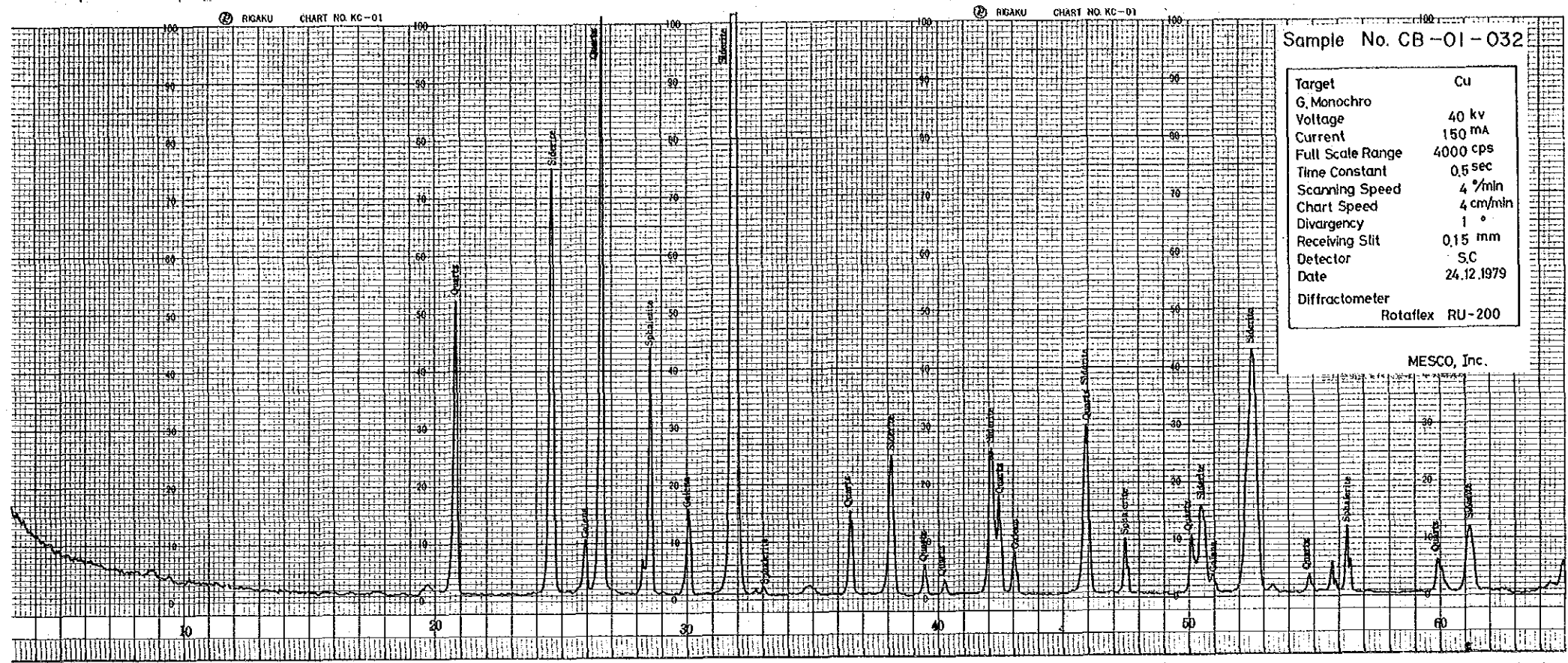


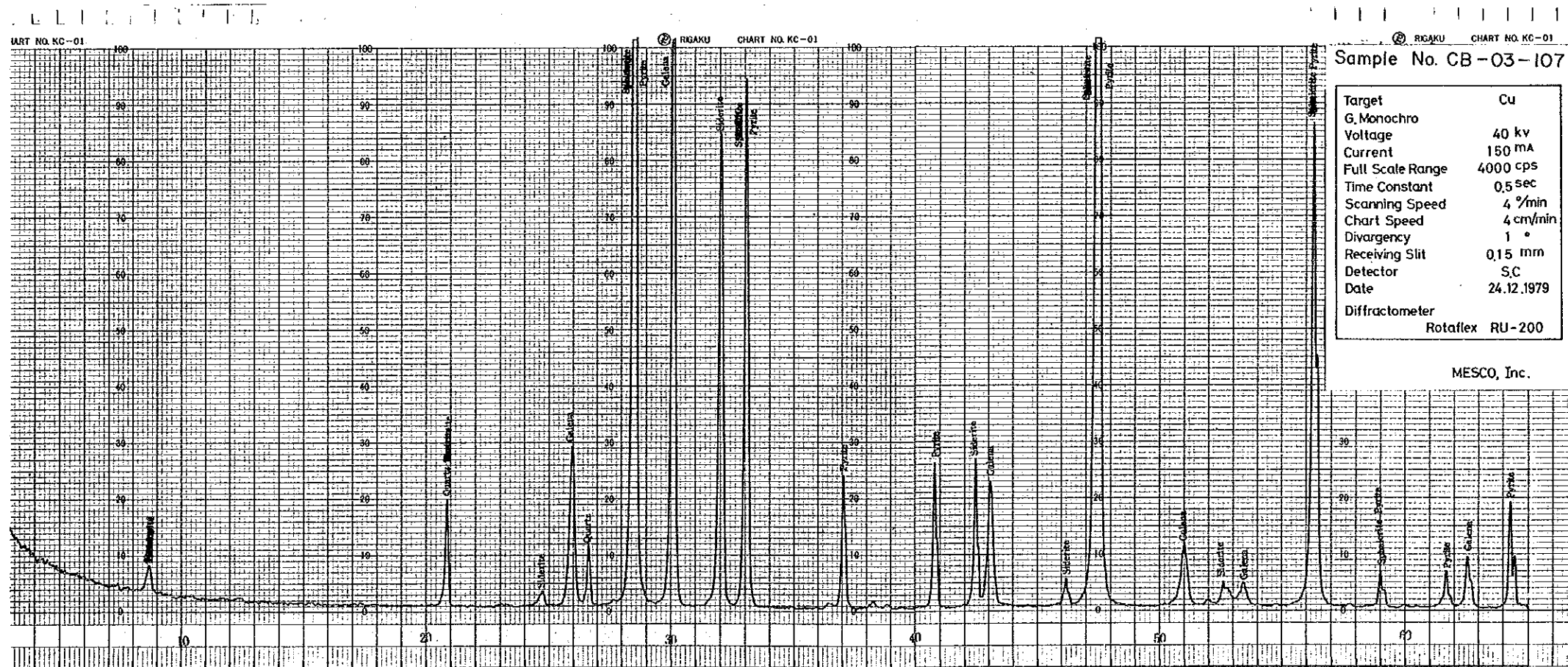
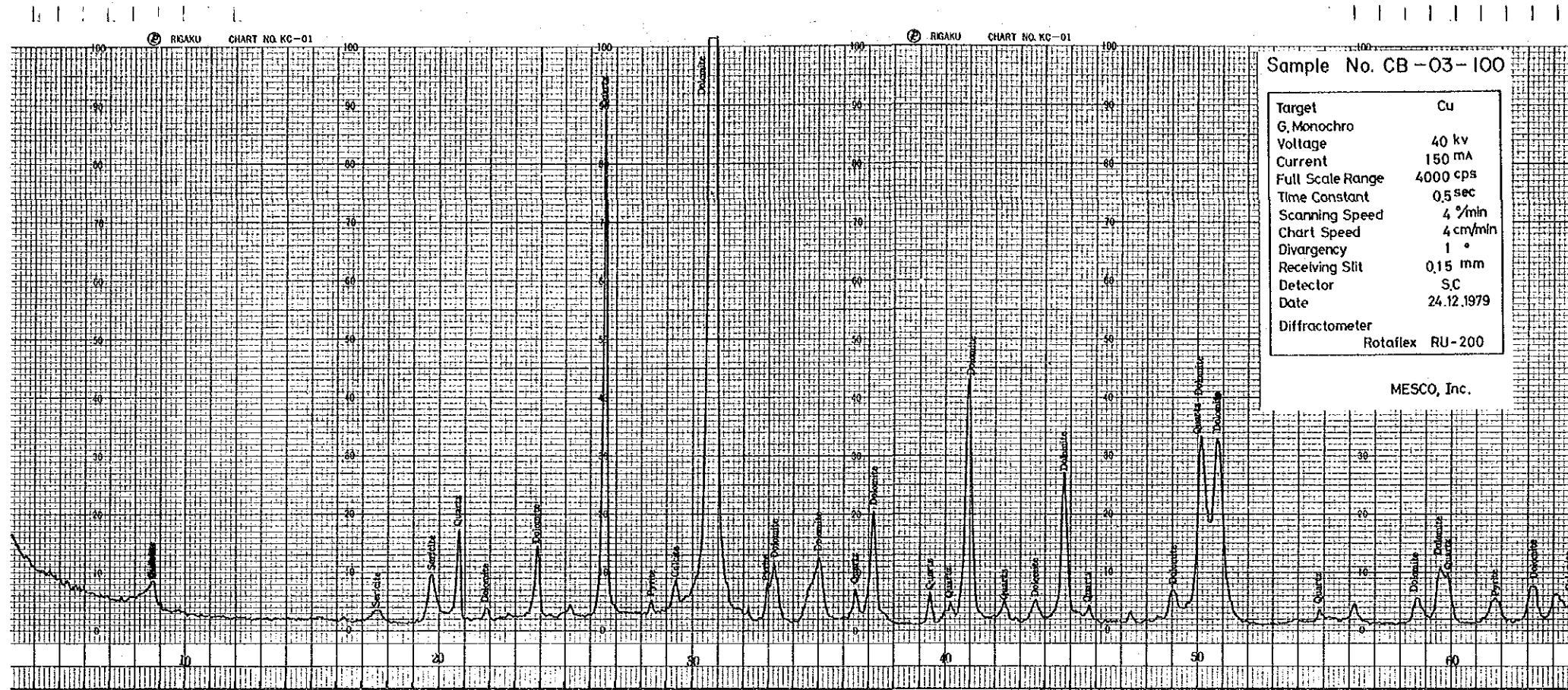
Pb X-ray image



Si X-ray image

A. III-4 Charts of X-ray diffraction test





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