

Appendix 5-1 X-Ray Diffraction Chart Masbate Area

Identified Minerals by X-Ray diffraction

Sample No.	Name	q	kf	pl	ho	m	mix	ch	se	k	p	di	la	Ze*	Ca	ep	cp	bro	cc	cov	bo	ga	sp	Mn	Py	mt	he	go	lep	rut	il
1 A090804		⊙																								○					
2 A090908		⊙			○				○															○							
3 A092209		⊙	○	○	○			•	○?		○?															○?					○
4 A092207		⊙						•	○															○							
5 Martiooc River FLT		○													○?											○	○				
6 C0905005		⊙		○				○																○							
7 F073R		⊙							○	○		○														○					•
8 G114R									○								⊙	○	○	○	○?									?	
9 J177		○	○	○	○			○	○							○							○								
10 J175		⊙						•?	○							•?									•						
11 E004-5R		○		○				○	○	○?														○							
12 MAR-RC02		○		⊙				○	•															○							
13 B28098501		○		⊙				○							•?	○									•						
14 11-4									○?							○															
15 13-2		⊙							•						○												○				
16 13-6		○		○					○						○										○						
17 A091301		⊙						?	○	○?																					
18 A090905		⊙						○?	○																						
19 A092208		⊙						○	○	○															○						
20 B28098504		○		⊙				•?	•?						○									•							

q : quartz
 kf : potash feldspar
 pl : plagioclase
 ho : hornblend
 m : montmorillonite
 mix : mixed layer mineral
 ch : chlorite
 se : sericite
 k : kaoline minerals
 p : pyrophyllite
 di : diaspor
 la : laumontite
 Ze : zeolite
 ca : calcite
 ep : epidot
 cp : chalcopyrite
 bro : brochantite
 cc : chalcocite
 cv : covelline
 bo : bornite
 ga : galena
 sp : sphalerite
 Mn : Manganese mineral
 py : pyrite
 mt : magnetite
 he : hematite
 go : goethite
 lep : lepidocrocite
 rut : rutile
 il : ilmenite
 ⊙ : abundant
 ○ : medium amount
 ◦ : small amount
 • : extra small amount

CAT. NO. 9907C1

100

100

100

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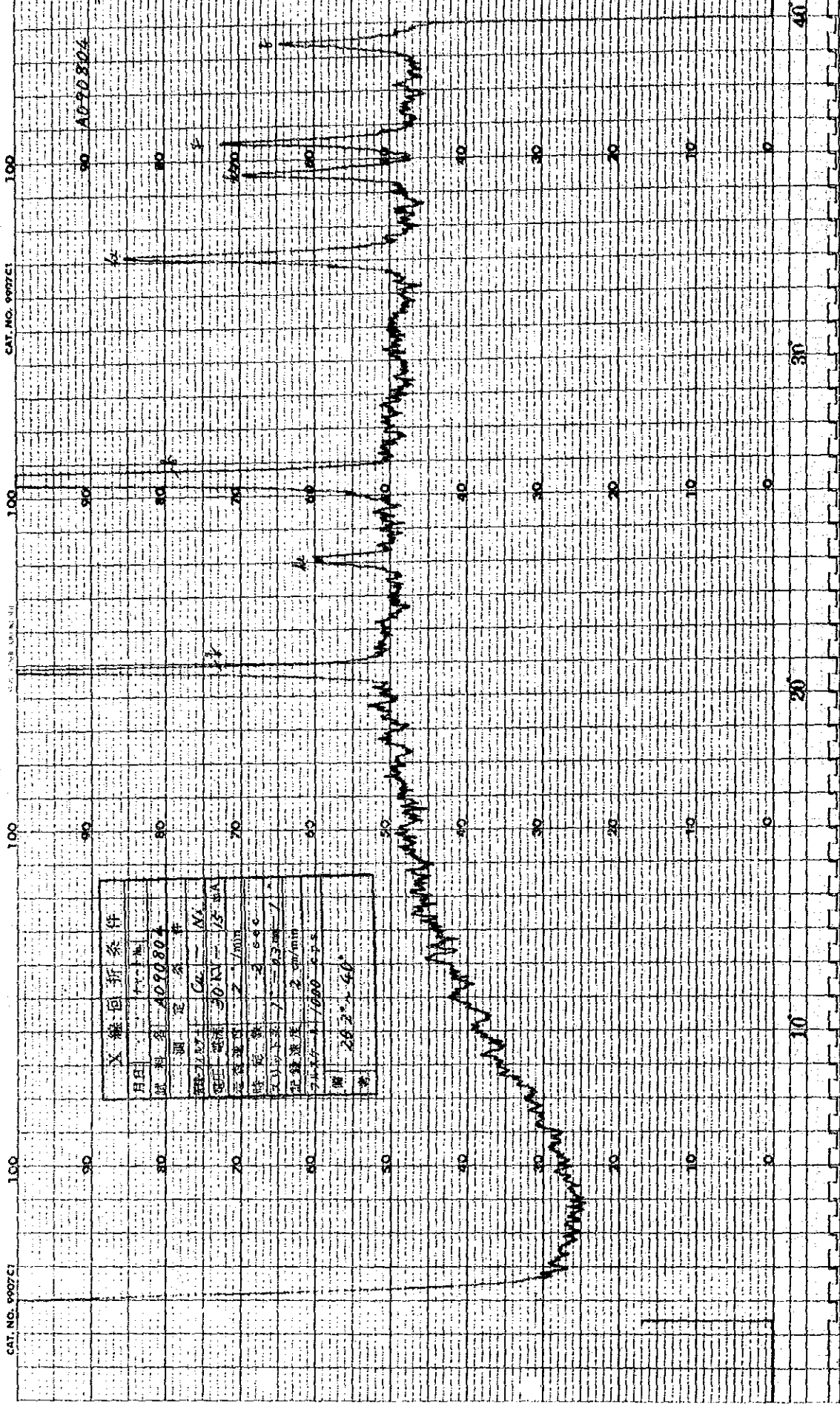
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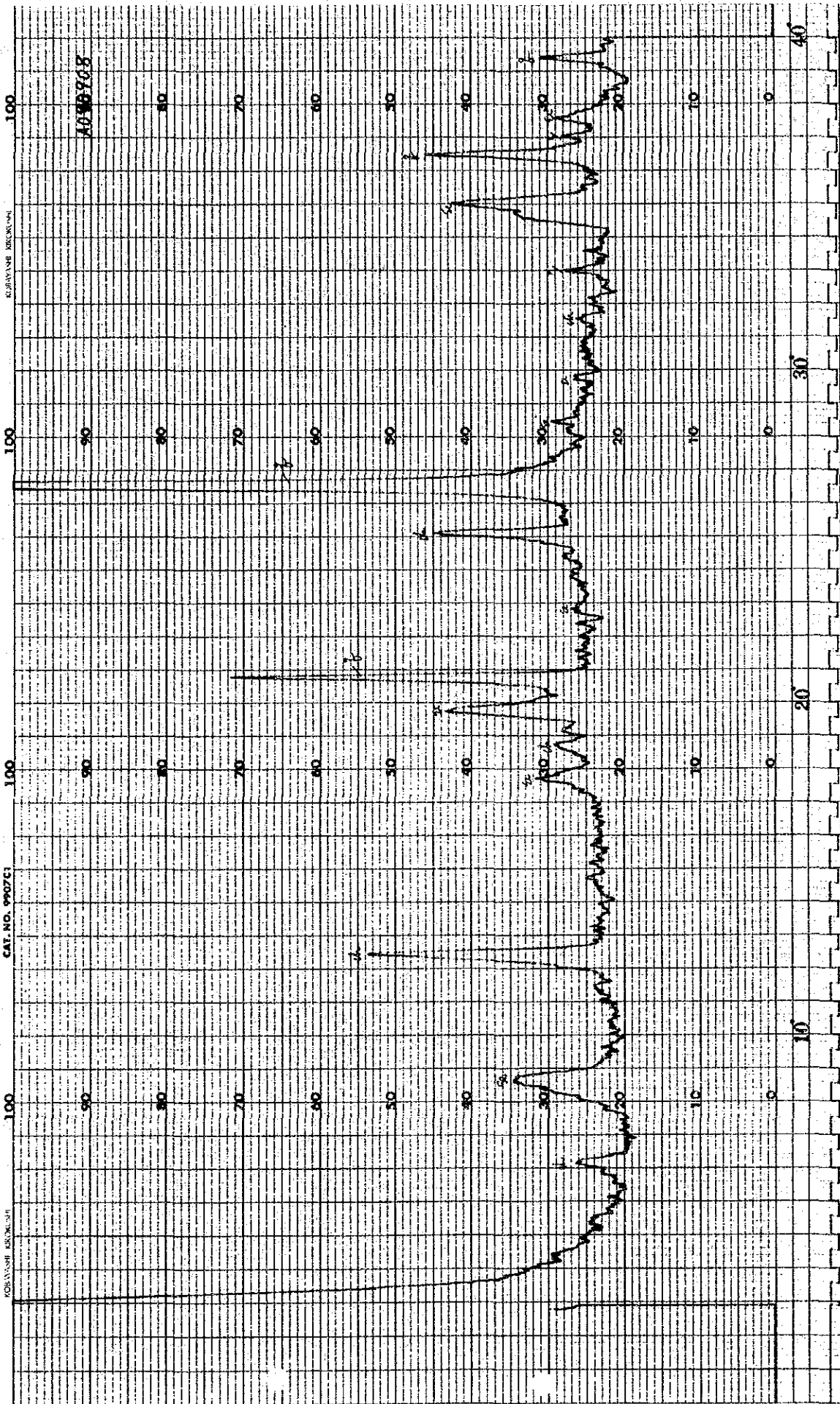
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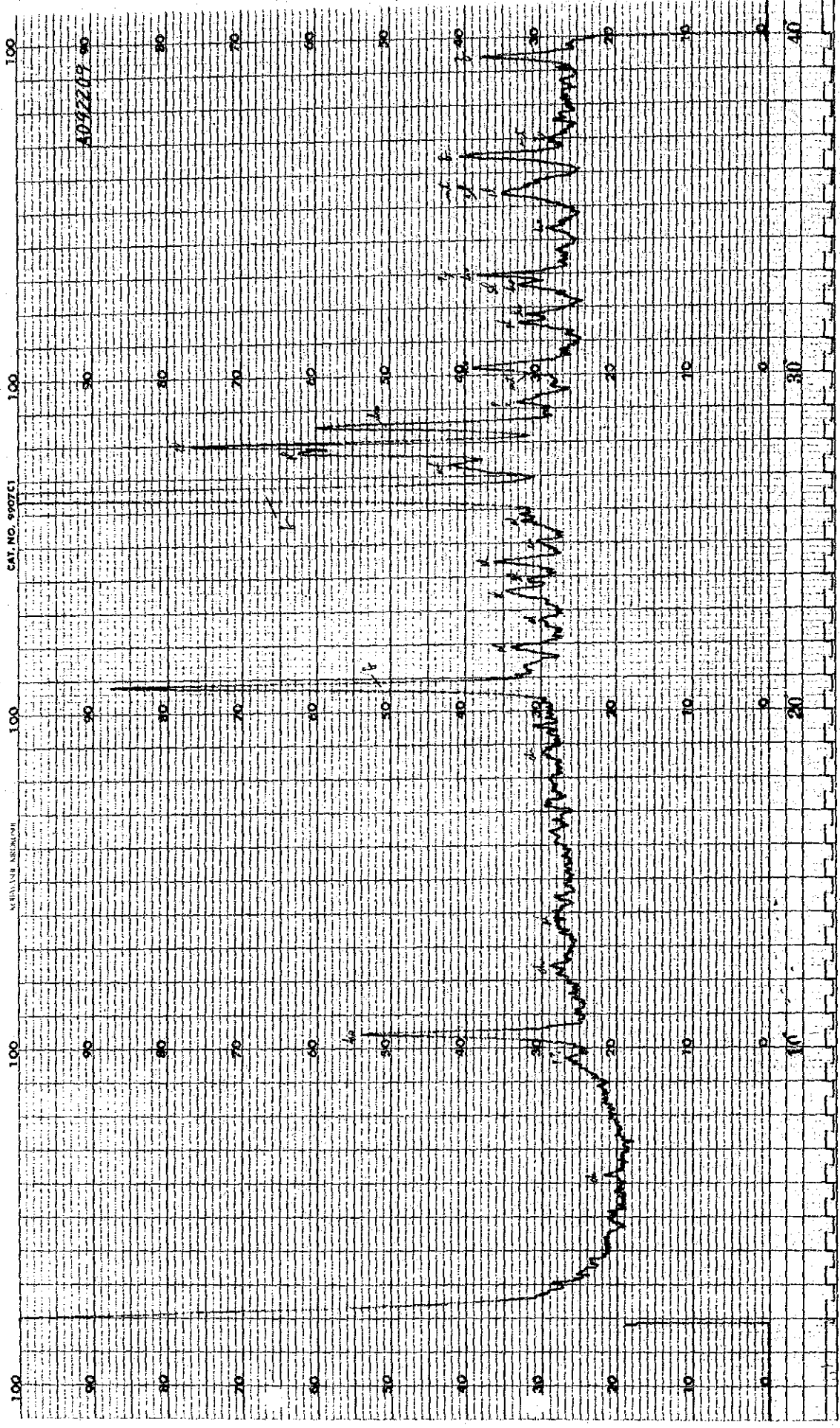
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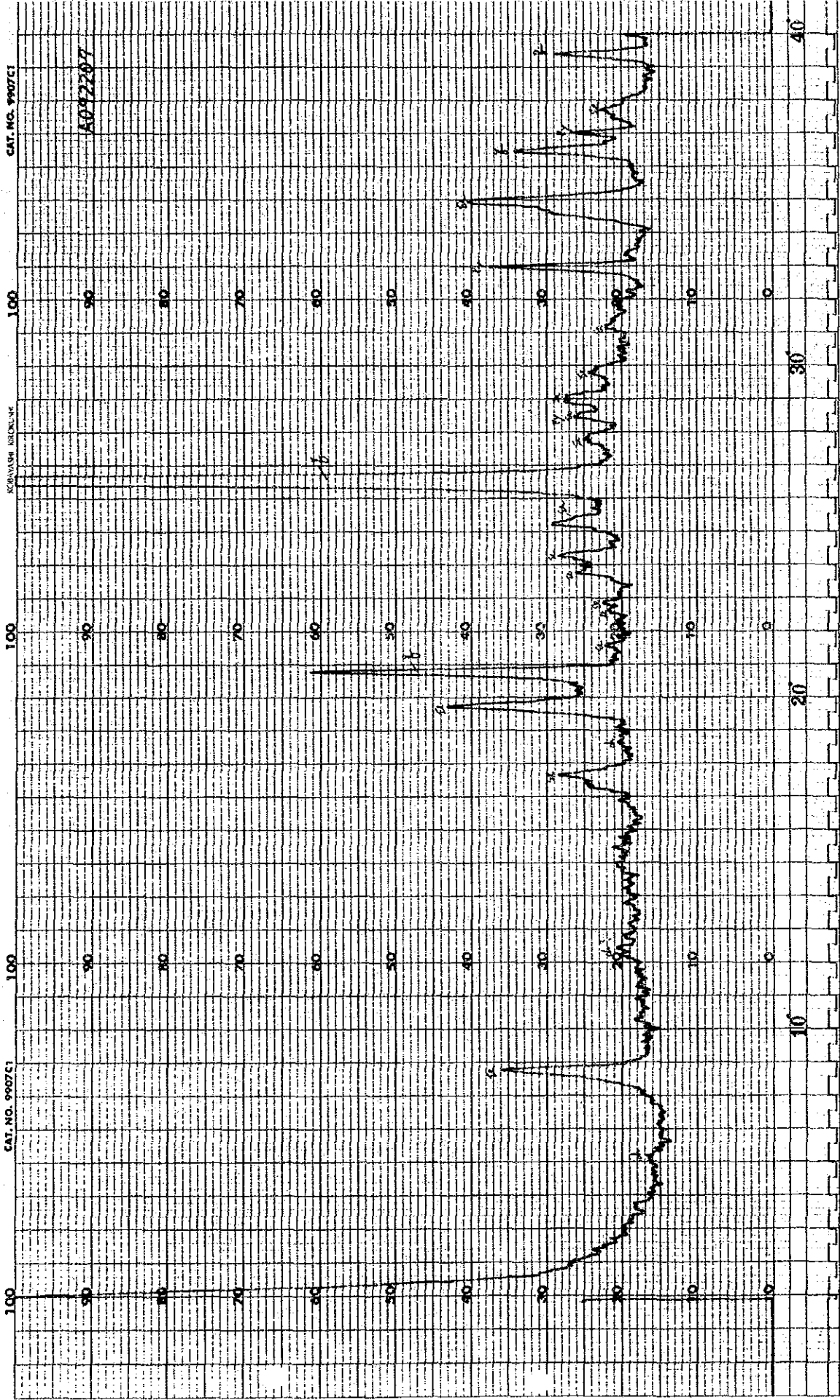
AD90804

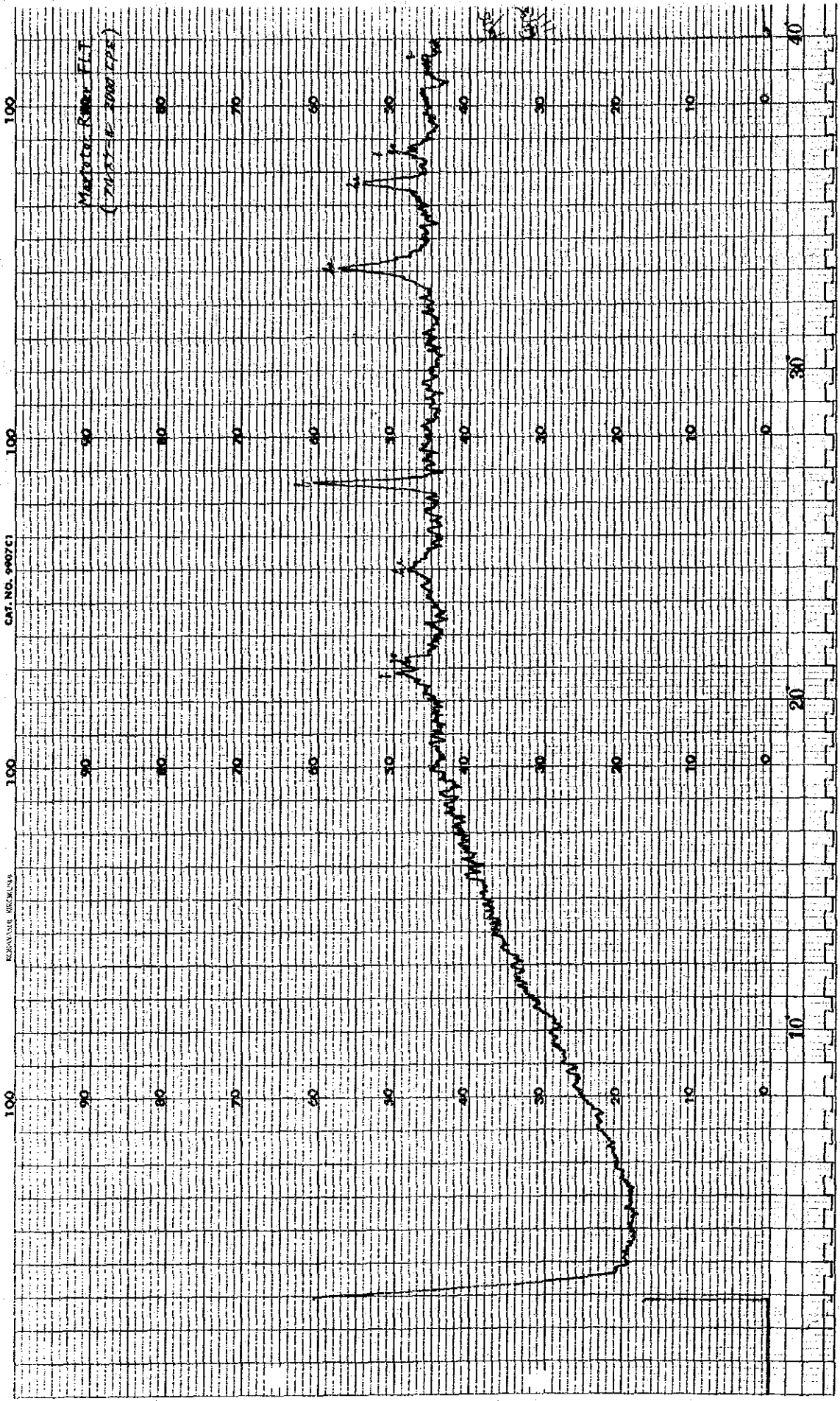
X線回折条件	
日期	1971.11.11
原料名	AD90804
測定条件	Ca - Ni
管電圧	30KV - 15mA
定速速度	2 /min
時長	3-50
2θ以下限	2.3
記録速度	2 cm/min
フィルタ	1000 cps
温度	28.2 ± 0.6











KOBAYASHI IROKUCHI

100

100

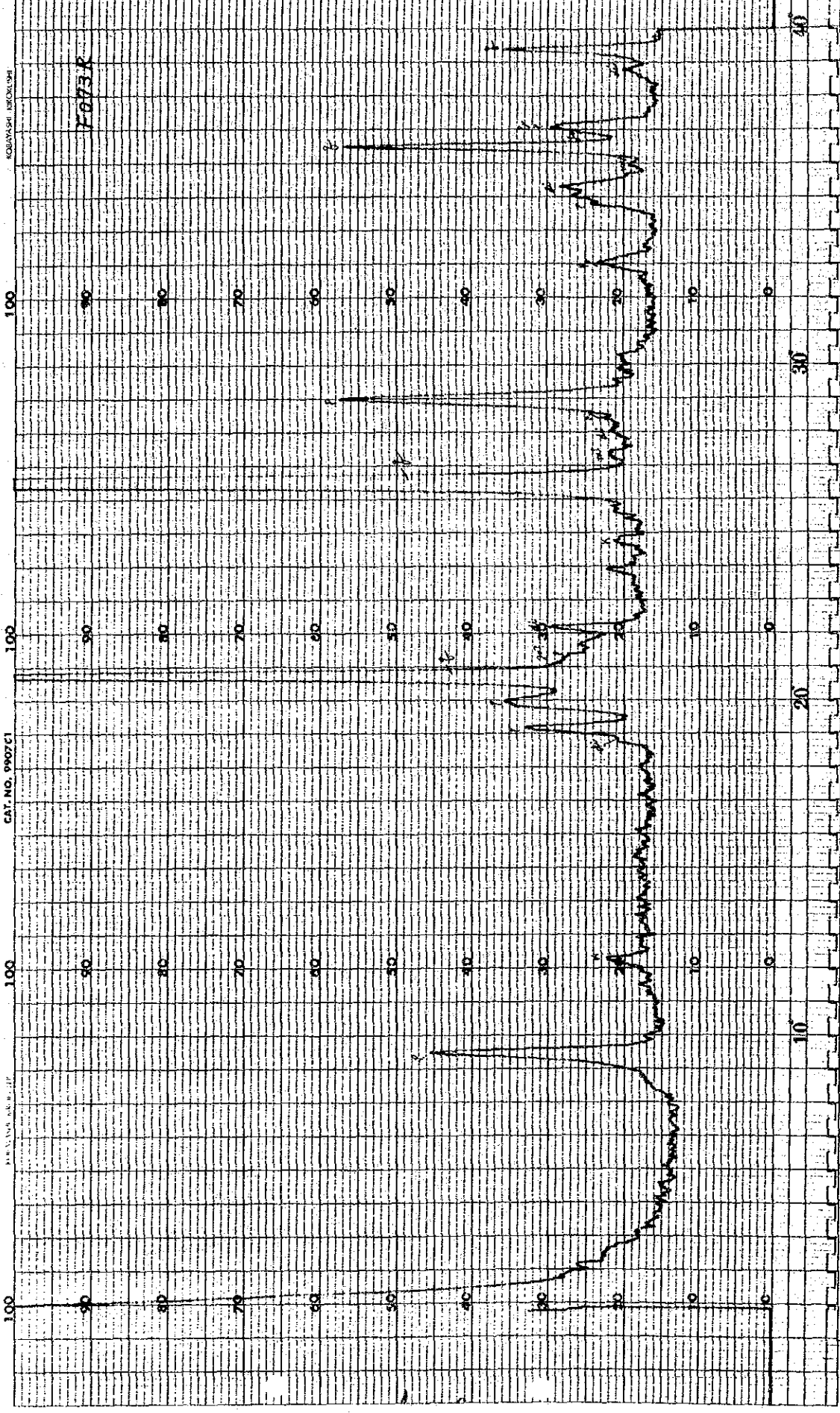
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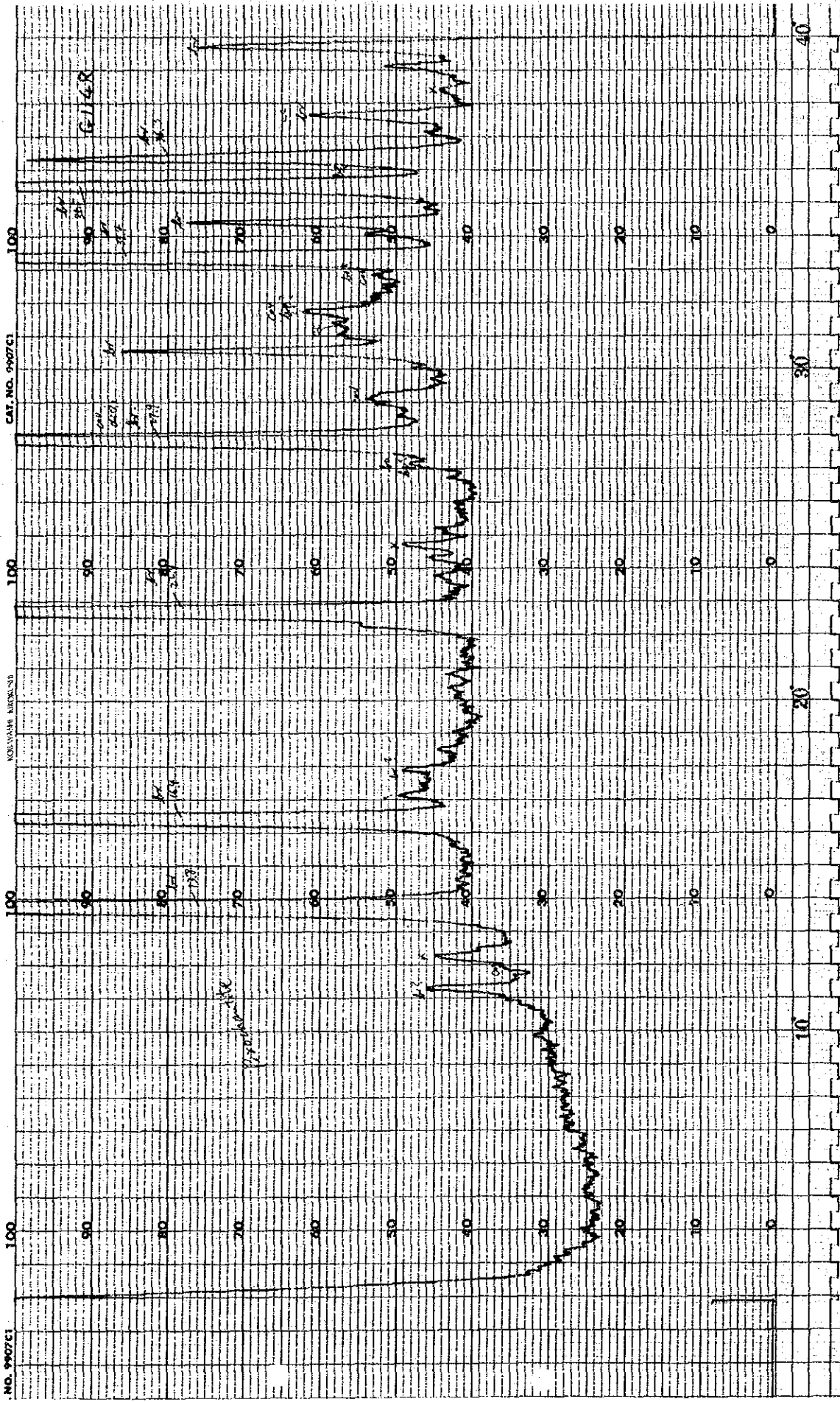
F673R

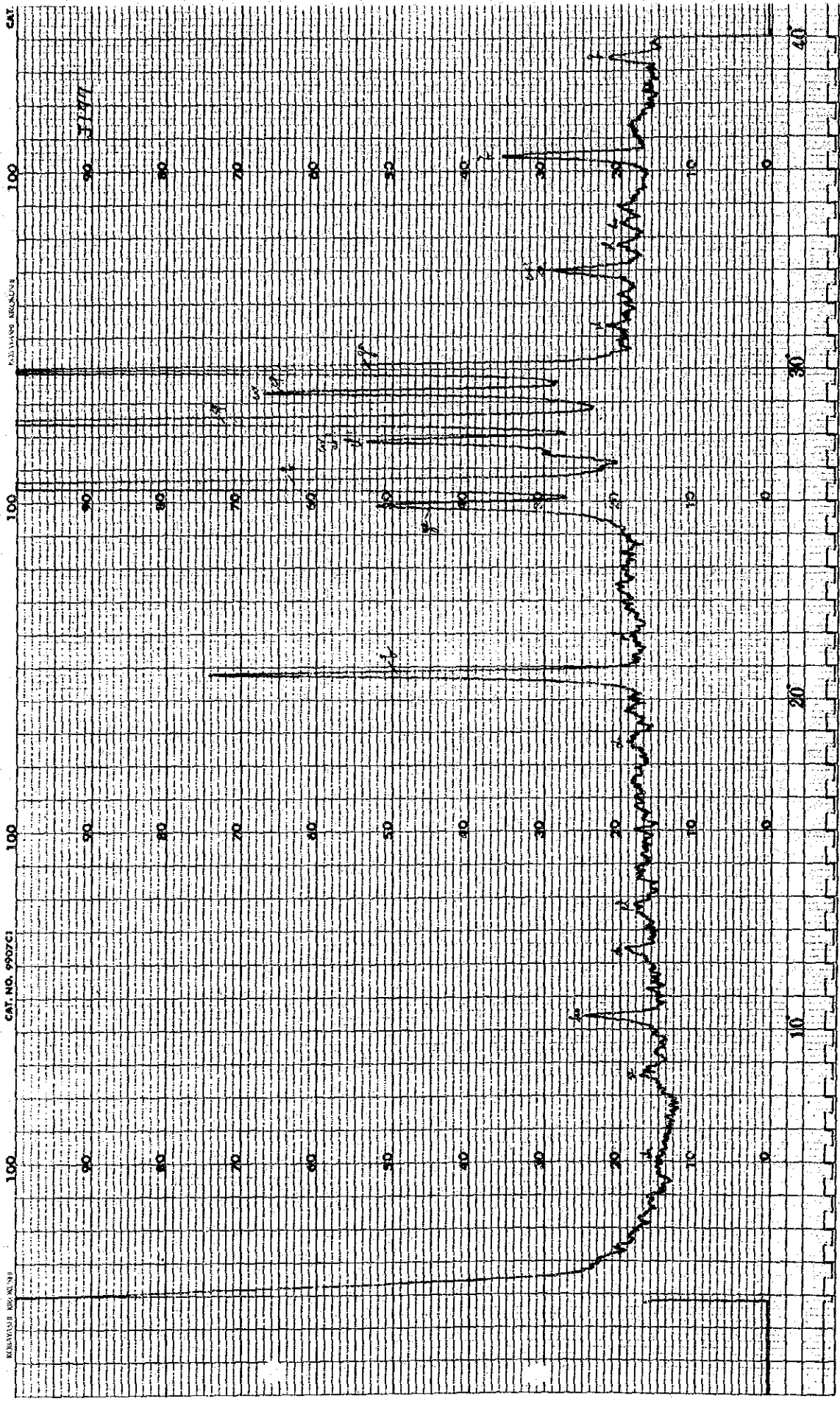


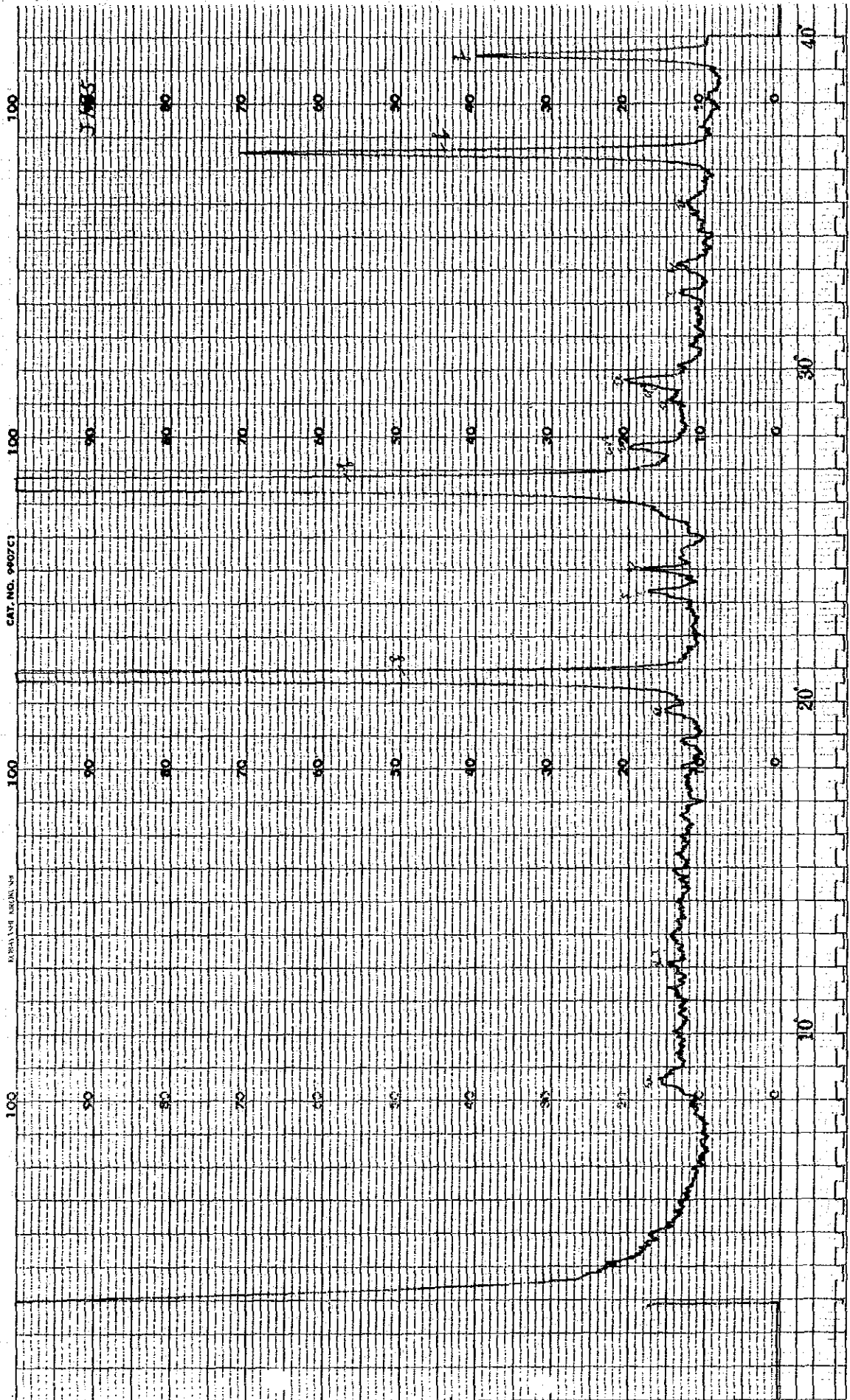
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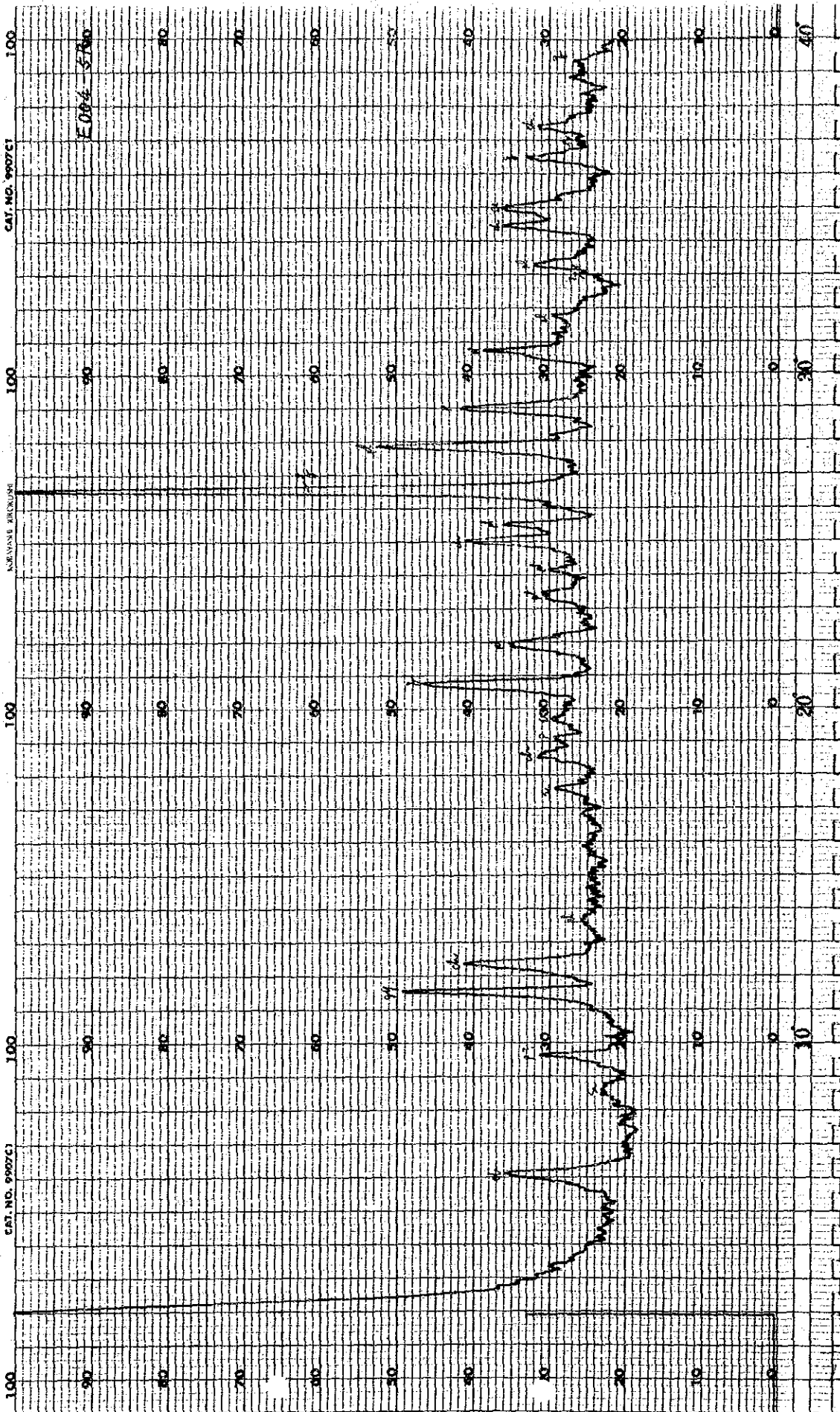
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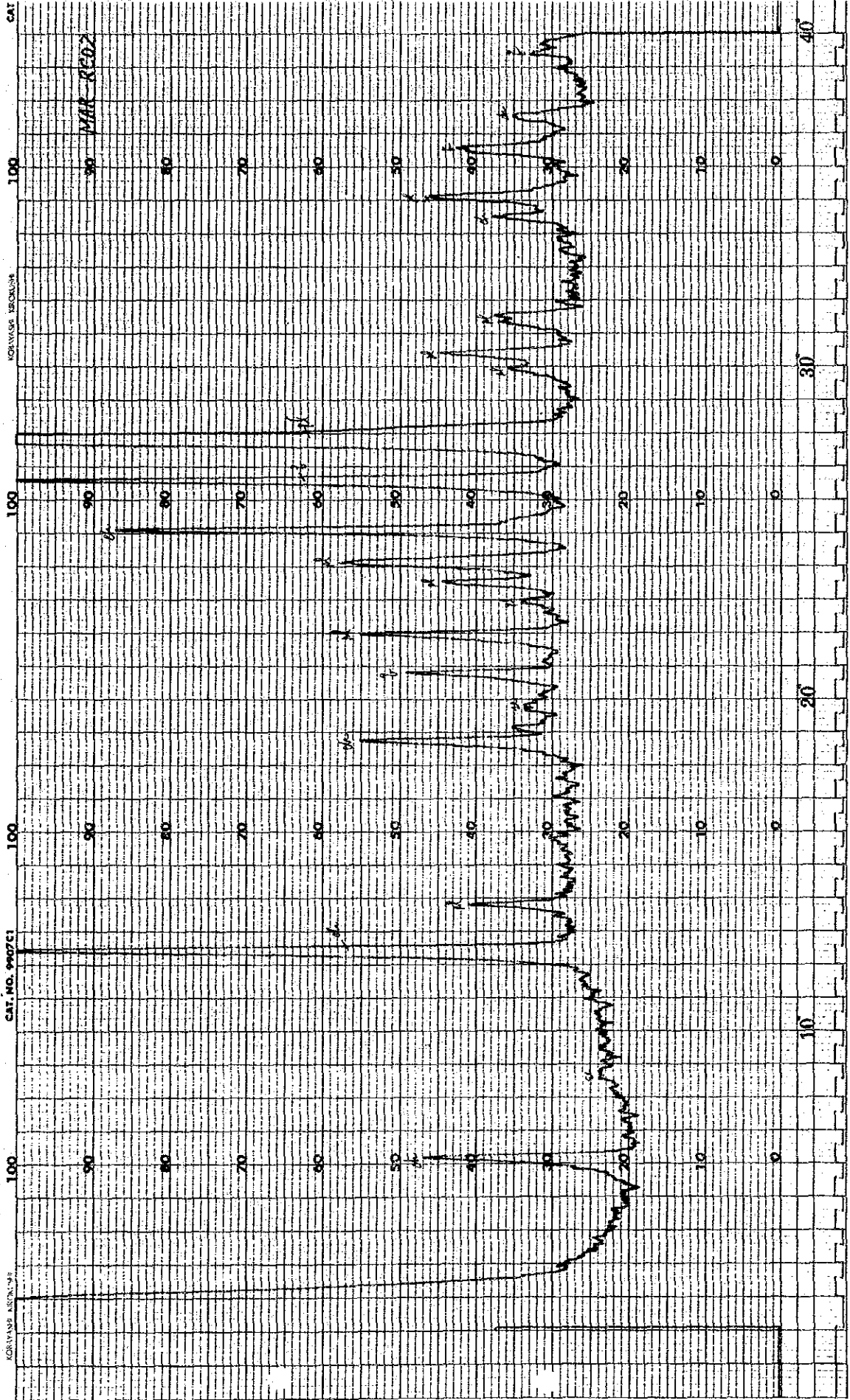
MOULVAPUR AIRCRAFT

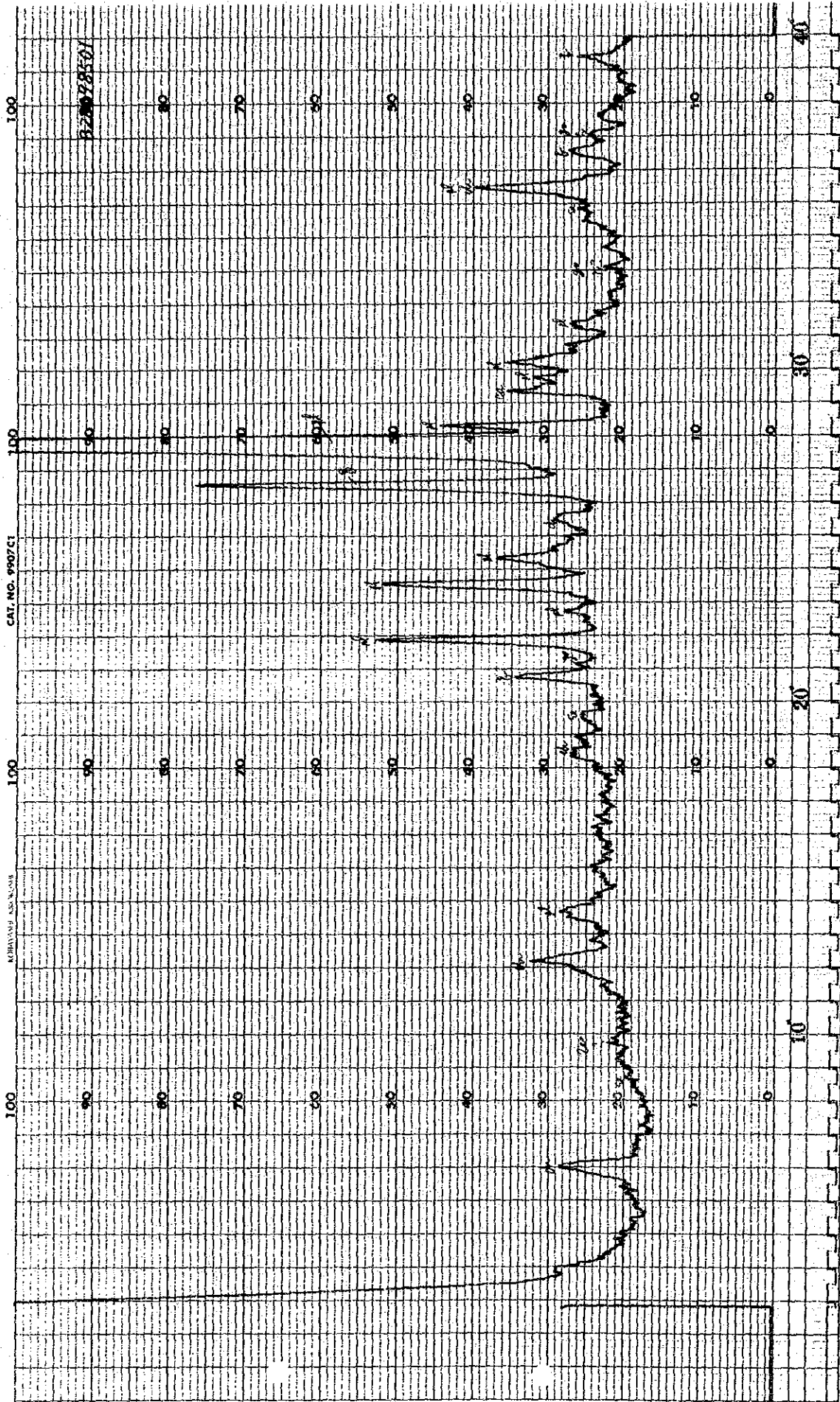


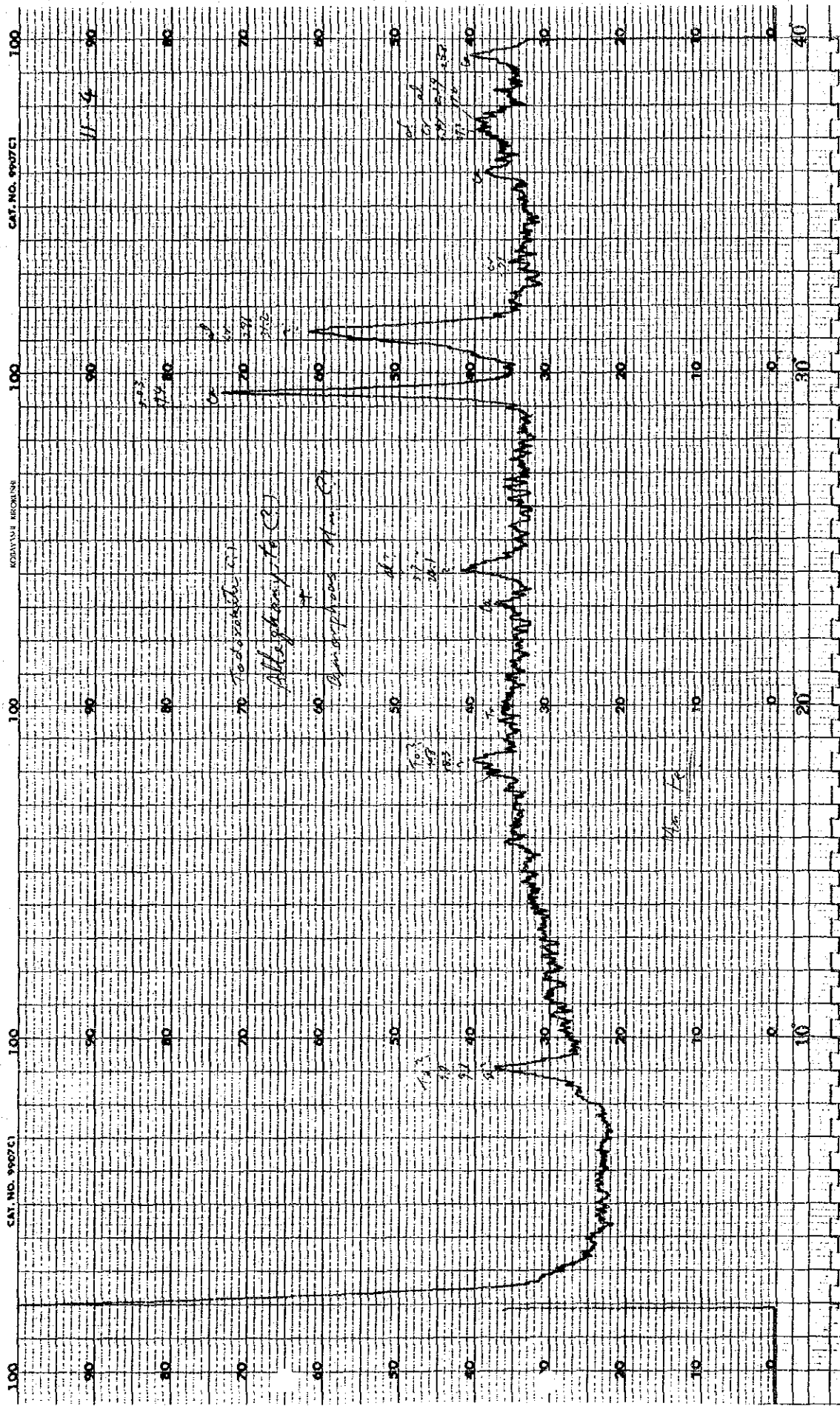








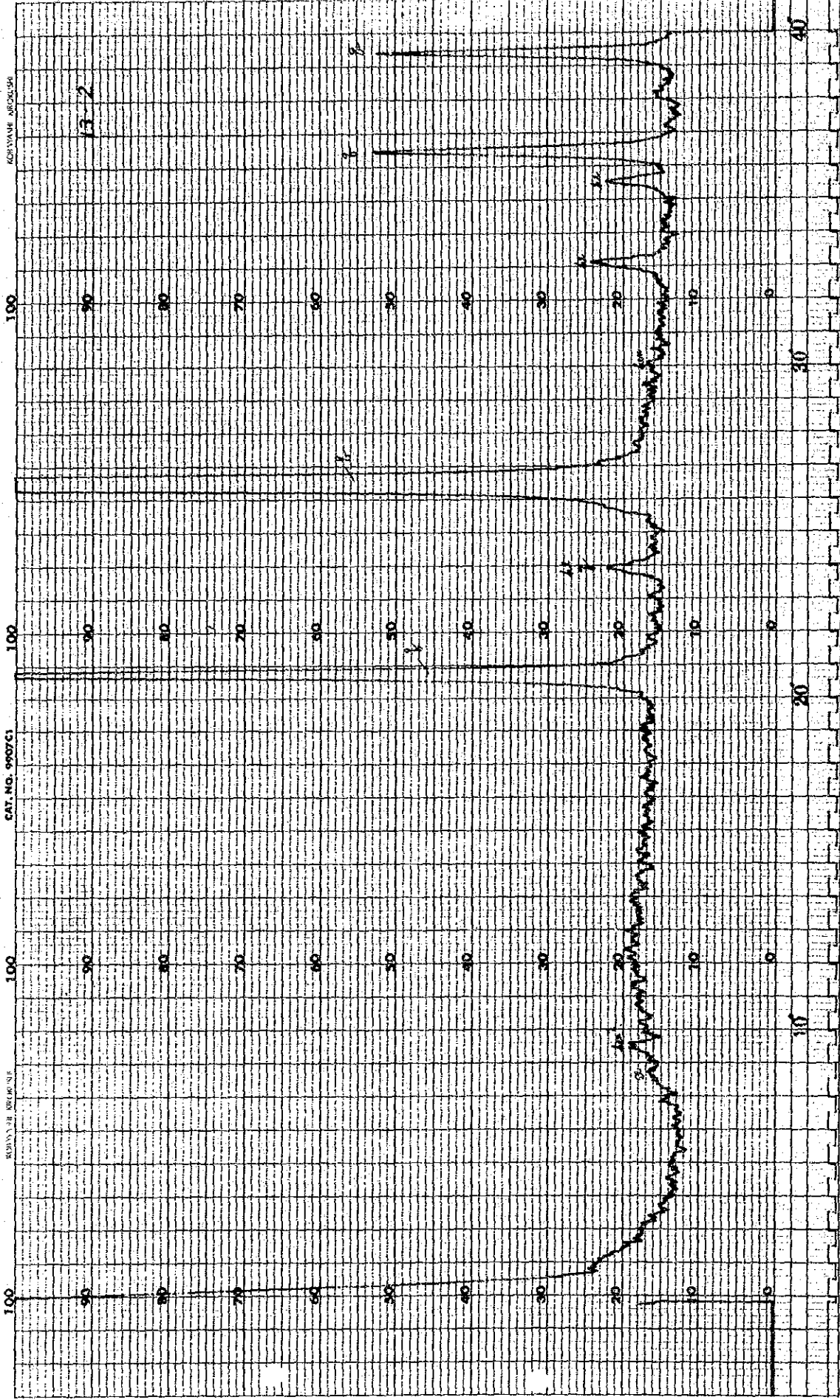


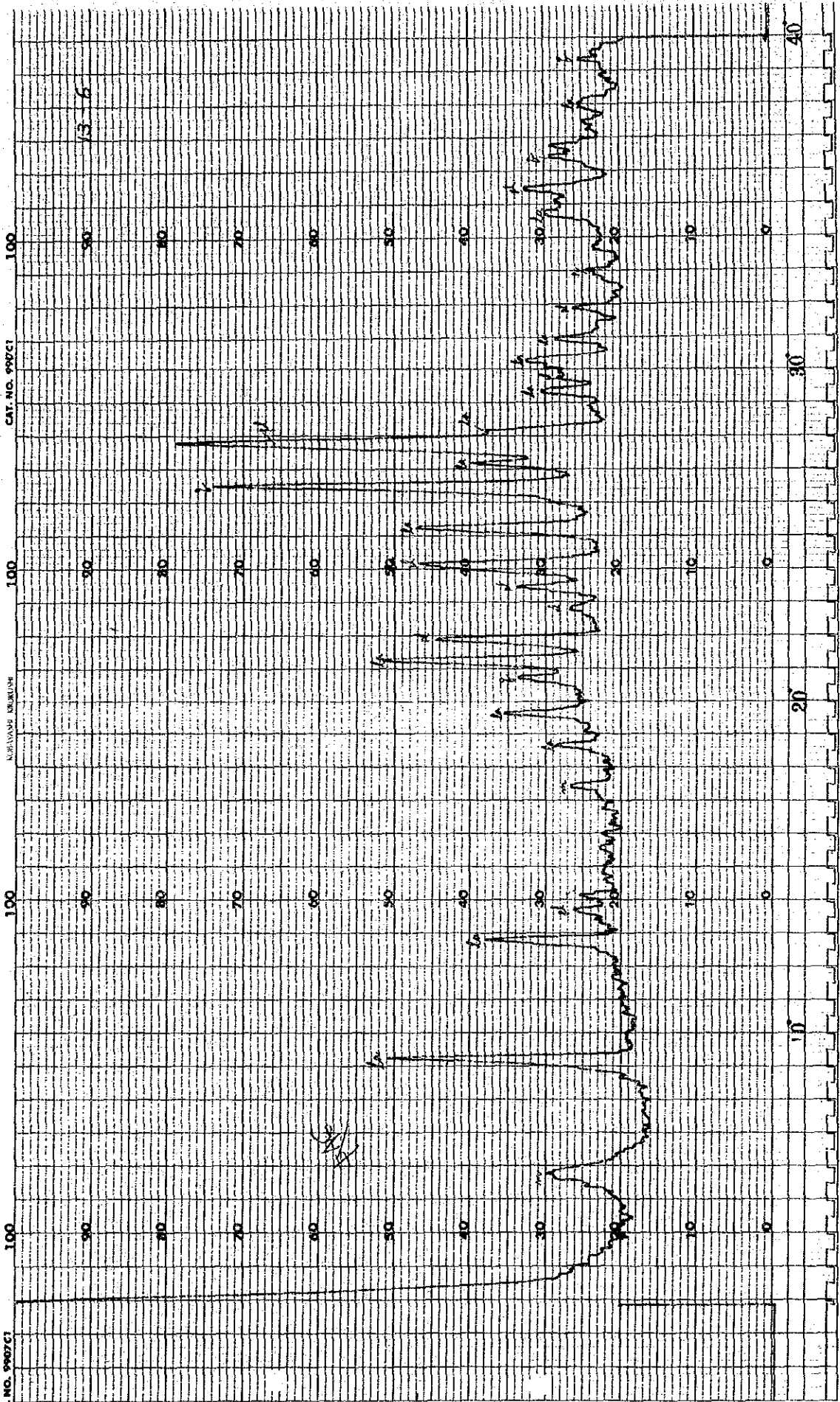


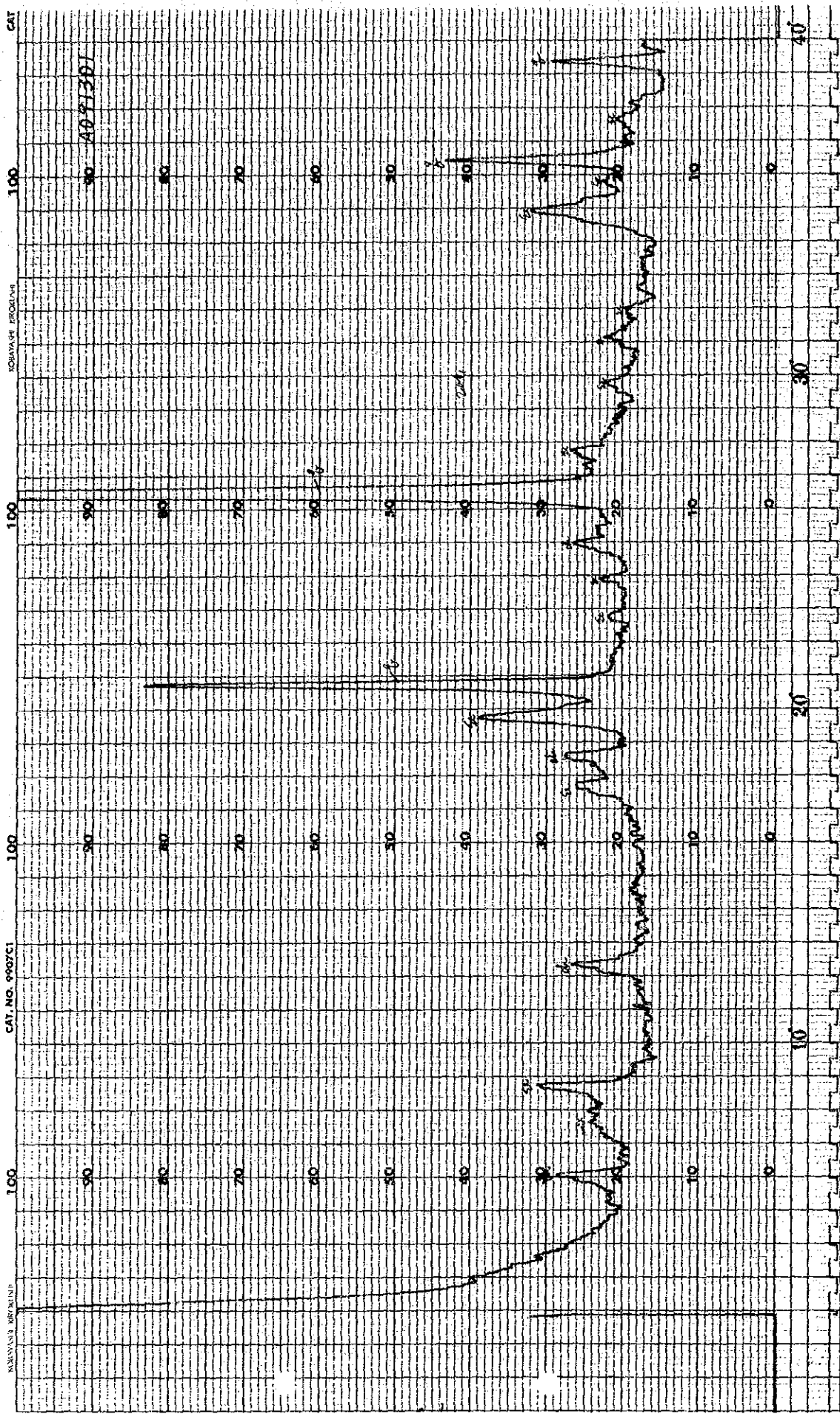
KOVINSKI IZ OBLASTI

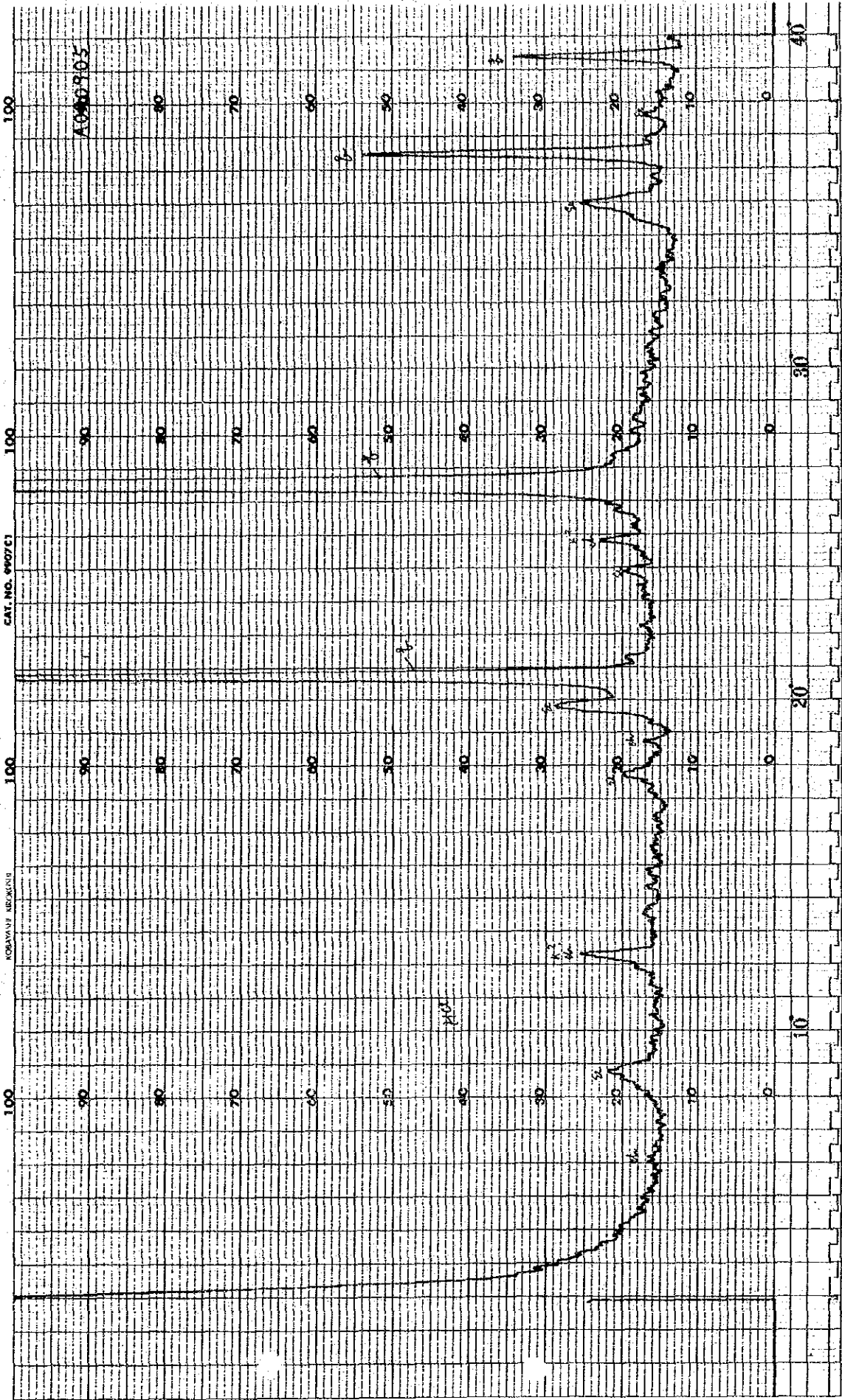
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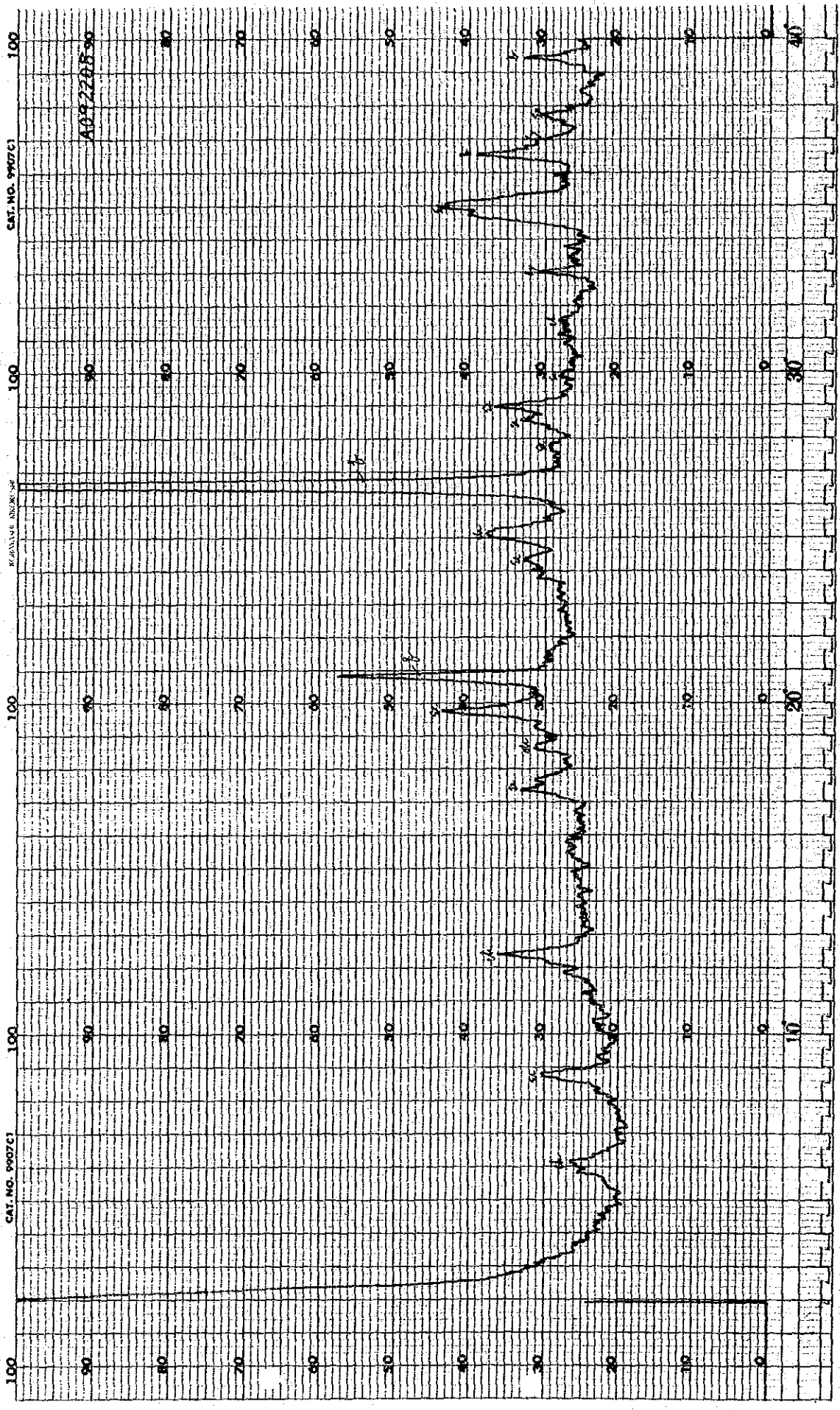
KOZYANE NROZUSI

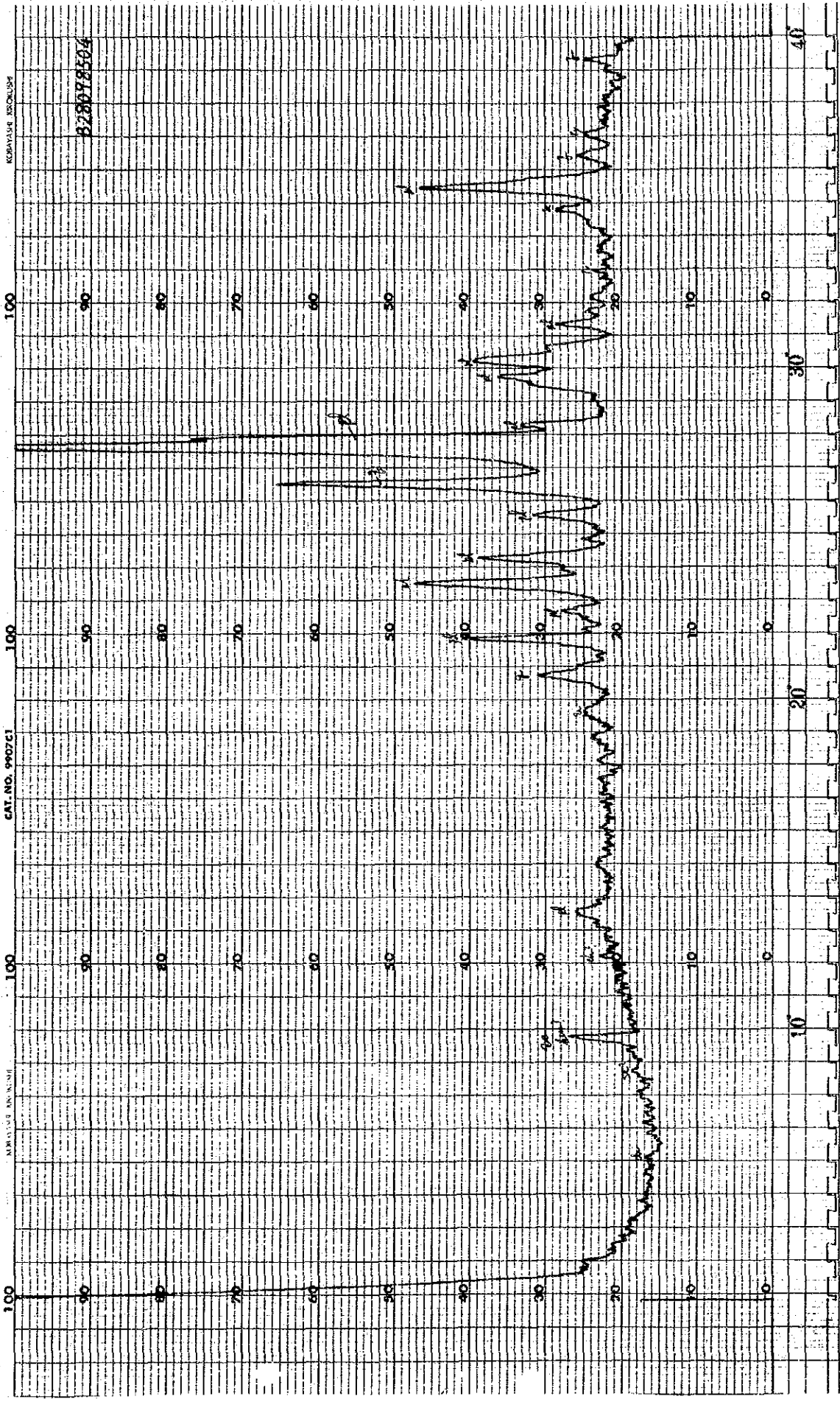












DATE: 12-16-1985

FILE NAME: SA35100
TARGET/FILTER (MONOCHRO): Fe
VOLTAGE/CURRENT: 35KV 15mA
SLITS: DS 1 RS .15

SCAN SPEED: 4 DEG/MIN.
STEP/SAMPLING: .05 DEG
PRESET TIME: 0 SEC

SMOOTHING: 0
OPERATOR:
COMMENT:

SMOOTHING: 7

DIFFERENTIAL: 9

PEAK HEIGHT: 40

PEAK WIDTH: 1

BACK GROUND (SAMPLING): 0

BACK GROUND (REPEAT): 0

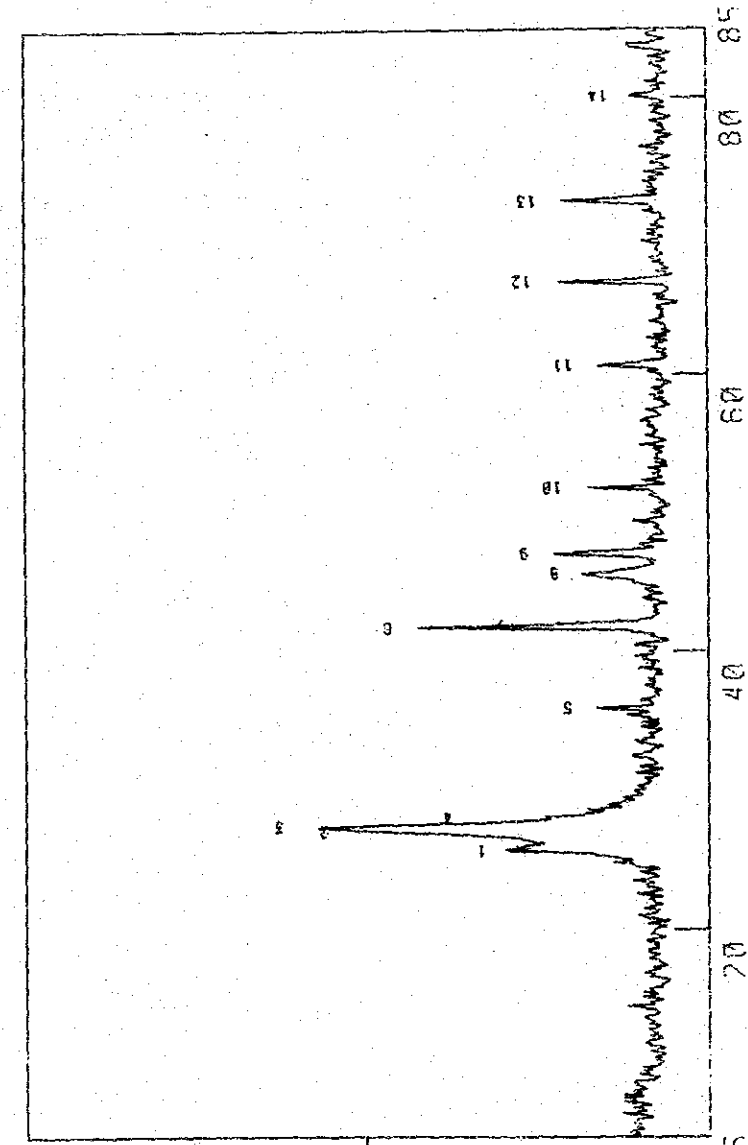
Sample Name :K100706

No	Theta	INTEN	I/I0
1	27.15	1448	1.500
2	27.55	2260	1.500
3	28.15	1812	1.500
4	28.55	2100	1.500
5	29.15	1091	1.500
6	29.55	1091	1.500
7	30.15	1091	1.500
8	30.55	1091	1.500
9	31.15	1091	1.500
10	31.55	1091	1.500
11	32.15	1091	1.500
12	32.55	1091	1.500
13	33.15	1091	1.500
14	33.55	1091	1.500

Appendix 5-2 X-Ray Diffraction Chart Northern Loyte Area

Corresponding Minerals to Peak No.

Sample name: K100706
No. Minerals
1 Tridymite
2 Tridymite, Cristobarite
3 Cristobarite
4 Marcasite
5 Pyrite
6 Cristobarite, Tridymite
7 Pyrite
8 Pyrite
9 Pyrite, Marcasite
10 Pyrite, Marcasite
11 Cristobarite, Marcasite
12 Pyrite
13 Pyrite, Marcasite
14 Pyrite, Marcasite



CP3

FILE NAME: SA36100
 TARGET/FILTER(MONOCHRO): Fe
 VOLTAGE/CURRENT: 35KV 15mA
 SLITS: DS 1 RS .15
 SCAN SPEED: 4 DEG/MIN.
 STEP/SAMPLING: .05 DEG
 PRESET TIME: 0 SEC
 SMOOTHING: 0
 OPERATOR:
 COMMENT:

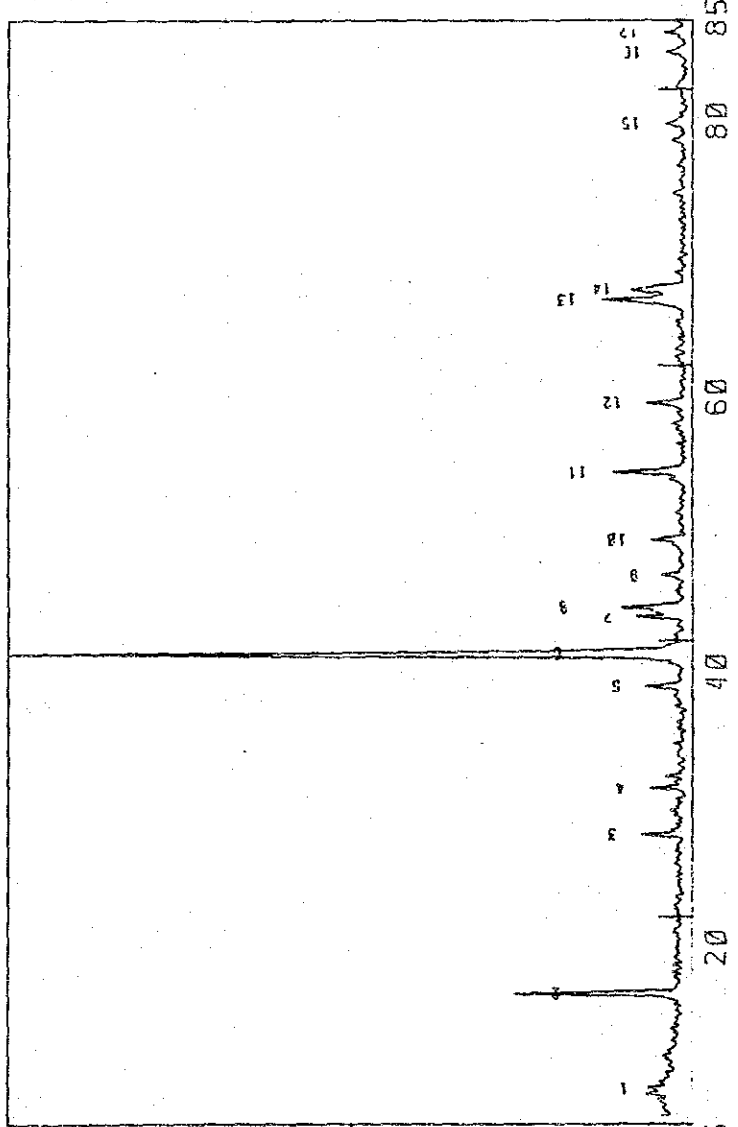
No.	2 Theta	INTEN	FWHM 1/10
1	14.55	58	4
2	17.35	248	14
3	20.35	76	7
4	23.05	60	3
5	24.45	136	2
6	26.35	93	2
7	27.45	33	2
8	28.55	16	2
9	30.35	11	2
10	32.35	13	2
11	33.65	18	2
12	35.15	4	2
13	36.15	3	2
14	37.15	4	2
15	38.15	4	2
16	39.15	4	2

SMOOTHING: 7
 DIFFERENTIAL: 9
 PEAK HEIGHT: 50
 PEAK WIDTH: 1
 BACK GROUND (SAMPLING): 0
 BACK GROUND (REPEAT): 0

Sample Name : K100707

1K

.5K



Corresponding Minerals to Peak No.

Sample No.	Minerals
1	Nontronite
2	Gypsum
3	Gypsum
4	Gypsum
5	Delomite, Gypsum
6	Pyrite
7	Delomite, Gypsum
8D	Delomite, Nontronite
9	Delomite
10	Delomite
11	Delomite
12	Delomite
13	Delomite
14	Delomite, Nontronite
15	Delomite
16	Delomite

FILE NAME: SA37100

TARGET/FILTER(MONOCHR): Fe

VOLTAGE/CURRENT: 35KV 15mA

SLITS: 0S 1 RS .15

SCAN SPEED: 4 DEG/MIN.

STEP/SAMPLING: .05 DEG

PRESET TIME: 0 SEC

SMOOTHING: 0

OPERATOR:

COMMENT:

SMOOTHING: 7

DIFFERENTIAL: 11

PEAK HEIGHT: 40

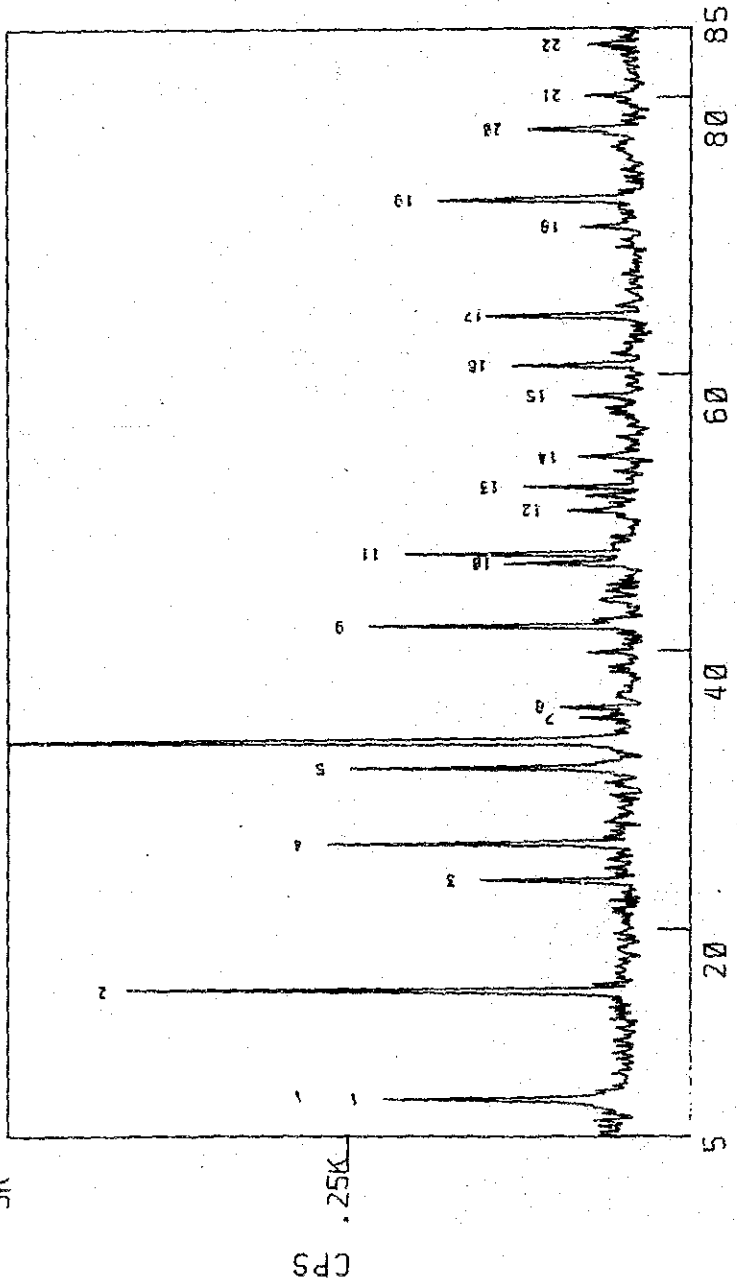
PEAK WIDTH: 1

BACK GROUND (SAMPLING): 0

BACK GROUND (REPEAT): 0

Sample Name : 101085

No.	Th	INTE	FWHM	I/I
1	1.5	223	4.5	10
2	3.6	124	4.5	37
3	3.8	248	4.5	44
4	3.8	108	4.8	22
5	3.8	88	4.1	7
6	3.8	232	4.5	10
7	4.6	120	4.5	37
8	4.6	91	4.5	11
9	4.6	178	4.5	11
10	5.5	129	4.5	37
11	5.5	105	4.5	11
12	5.5	205	4.5	37
13	5.5	133	4.5	11
14	5.5	169	4.5	37
15	5.5	118	4.5	11
16	5.5	139	4.5	37
17	5.5	117	4.5	11
18	5.5	139	4.5	37
19	5.5	117	4.5	11
20	5.5	139	4.5	37
21	5.5	117	4.5	11
22	5.5	139	4.5	37



Corresponding Minerals to Peak No.

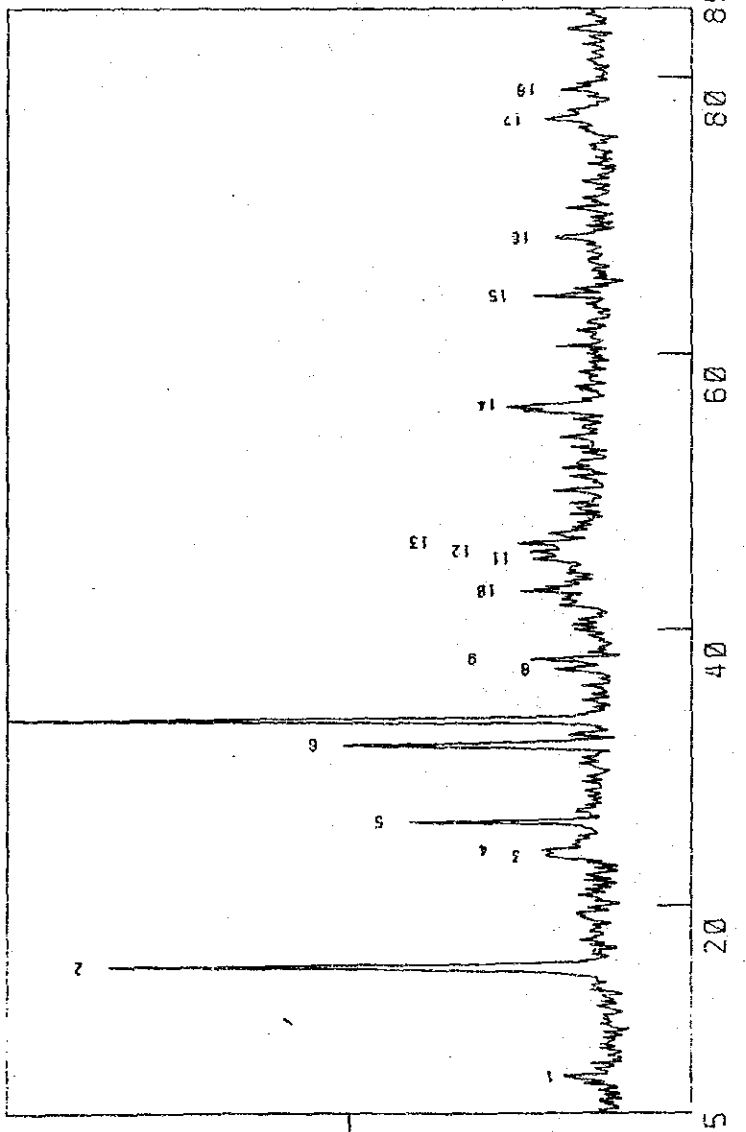
Sample No.	Minerals
1	Clinocllore
2	Clinocllore
3	Clinocllore
4	Quartz
5	Clinocllore
6	Quartz
7	Pyrite
8	Pyrite
9	Quartz
10	Pyrite
11	Pyrite
12	Quartz
13	Pyrite
14	Quartz
15	Pyrite
16	Quartz
17	Pyrite
18	Quartz
19	Pyrite
20	Clinocllore
21	Pyrite
22	Pyrite

FILE NAME: SA38100
 DATE: 12-16-1985
 TARGET/FILTER (MONOCHRO): Fe
 VOLTAGE/CURRENT: 35KV 15mA
 SLITS: DS 1 RS .15
 SCAN SPEED: 4 DEG/MIN.
 STEP/SAMPLING: .05 DEG
 PRESET TIME: 0 SEC
 SMOOTHING: 0
 OPERATOR:
 COMMENT:

SMOOTHING: 7
 DIFFERENTIAL: 11
 PEAK HEIGHT: 40
 PEAK WIDTH: .1
 BACK GROUND (SAMPLING): 0
 BACK GROUND (REPEAT): 0

Sample Name : NFS09R

No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
 Thet a 7.5 13.3 24.6 33.3 33.3 33.3 44.5 44.5 56.0 56.0 7.9
 INTEN 825 420 1100 640 1260 1110 1110 1110 1110 1110 1110 1110 1110 1110 1110 1110 1110
 d 0.6 1.7 2.2 2.7 2.8 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3
 FWHM ** 4.8 5.1 4.7 4.4 4.4 4.7 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8
 1/10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1



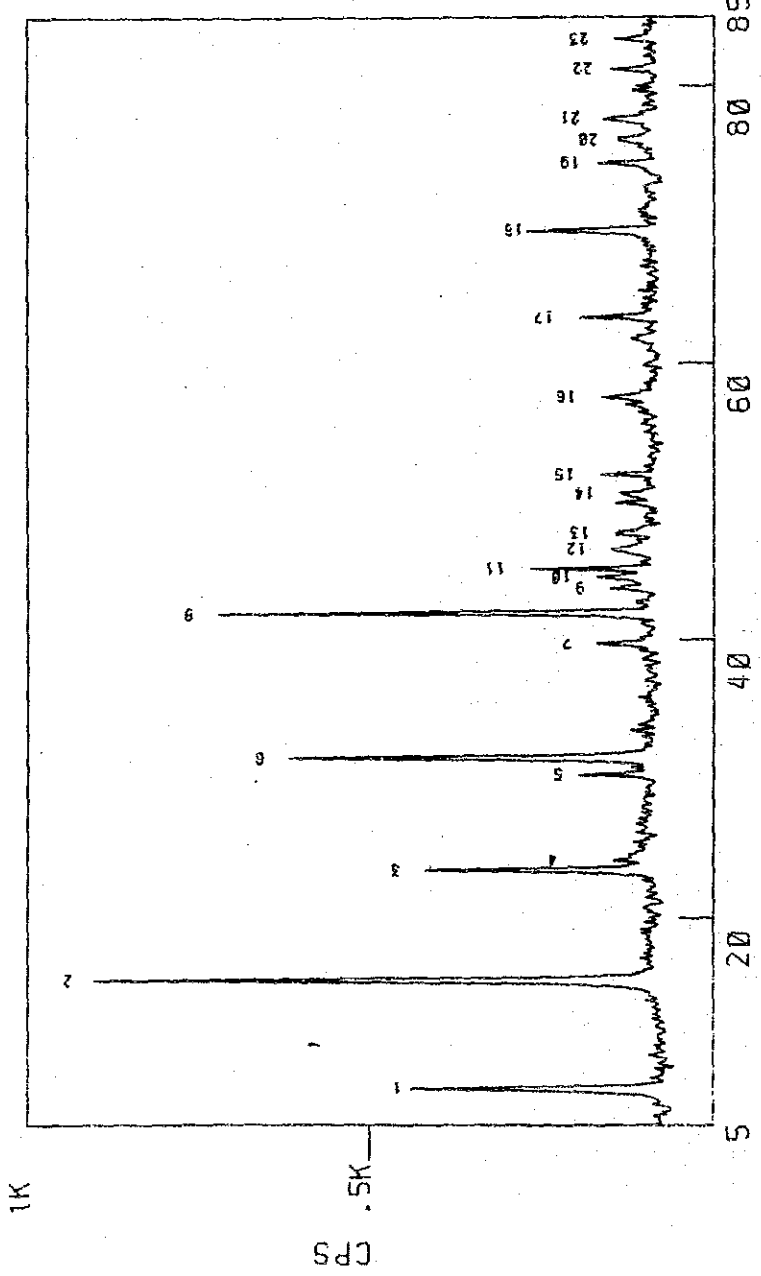
Corresponding Minerals to Peak No.

Sample No.	Minerals
1	Chamosite, Nontronite?
2	Chamosite
3	Chamosite
4	Quartz
5	Chamosite
6	Quartz
7	Nontronite?
8	Pyrrhotite, Tetrahedrite?
9	Chamosite
10	Chamosite
11	Quartz
12	Pyrrhotite
13	Quartz, Tetrahedrite?
14	Pyrrhotite, Nontronite
15	Chamosite, Tetrahedrite?
16	Chamosite, Nontronite?
17	Chamosite, Nontronite?

FILE NAME: SA39100
 DATE: 12-16-1985
 TARGET/FILTER (MONOCHRO): Fe
 VOLTAGE/CURRENT: 35KV 15mA
 SLITS: DS 1 RS .15
 SCAN SPEED: 4 DEG/MIN.
 STEP/SAMPLING: .05 DEG
 PRESET TIME: 0 SEC
 SMOOTHING: 0
 OPERATOR:
 COMMENT:

SMOOTHING: 7
 DIFFERENTIAL: 11
 PEAK HEIGHT: 50
 PEAK WIDTH: 1
 BACK GROUND (SAMPLING): 0
 BACK GROUND (REPEAT): 0

Sample Name : 061085
 AVC-03



No.	2 Theta	INTEN	I/I0
1	15.5	4150	1.4
2	22.4	8950	1.0
3	33.9	4410	1.4
4	34.3	4110	1.4
5	41.3	1160	1.4
6	44.5	1170	1.4
7	45.0	1170	1.4
8	46.2	1170	1.4
9	46.7	1170	1.4
10	53.6	1170	1.4
11	53.6	1170	1.4
12	53.6	1170	1.4
13	53.6	1170	1.4
14	53.6	1170	1.4
15	53.6	1170	1.4
16	53.6	1170	1.4
17	53.6	1170	1.4
18	53.6	1170	1.4
19	53.6	1170	1.4
20	53.6	1170	1.4
21	53.6	1170	1.4
22	53.6	1170	1.4
23	53.6	1170	1.4

Corresponding Minerals to Peak No.

Sample name:	Minerals
AVC-03*061085	Clinocllore
1	Clinocllore
2	Clinocllore
3	Clinocllore
4	Clinocllore
5	Hematite
6	Clinocllore
7	Clinocllore
8	Hematite
9	Clinocllore
10	Clinocllore
11	Hematite
12	Clinocllore
13	Clinocllore
14	Clinocllore
15	Hematite
16	Clinocllore
17	Hematite
18	Hematite
19	Hematite
20	Clinocllore
21	Clinocllore
22	Hematite
23	Hematite

FILE NAME: SA40100
 DATE: 12-16-1985
 TARGET/FILTER(MONOCHROM): Fe
 VOLTAGE/CURRENT: 35KV 15mA
 SLITS: DS 1 RS .15
 SCAN SPEED: 4 DEG/MIN.
 STEP/SAMPLING: .05 DEG
 PRESET TIME: 0 SEC
 SMOOTHING: 0
 OPERATOR:
 COMMENT:

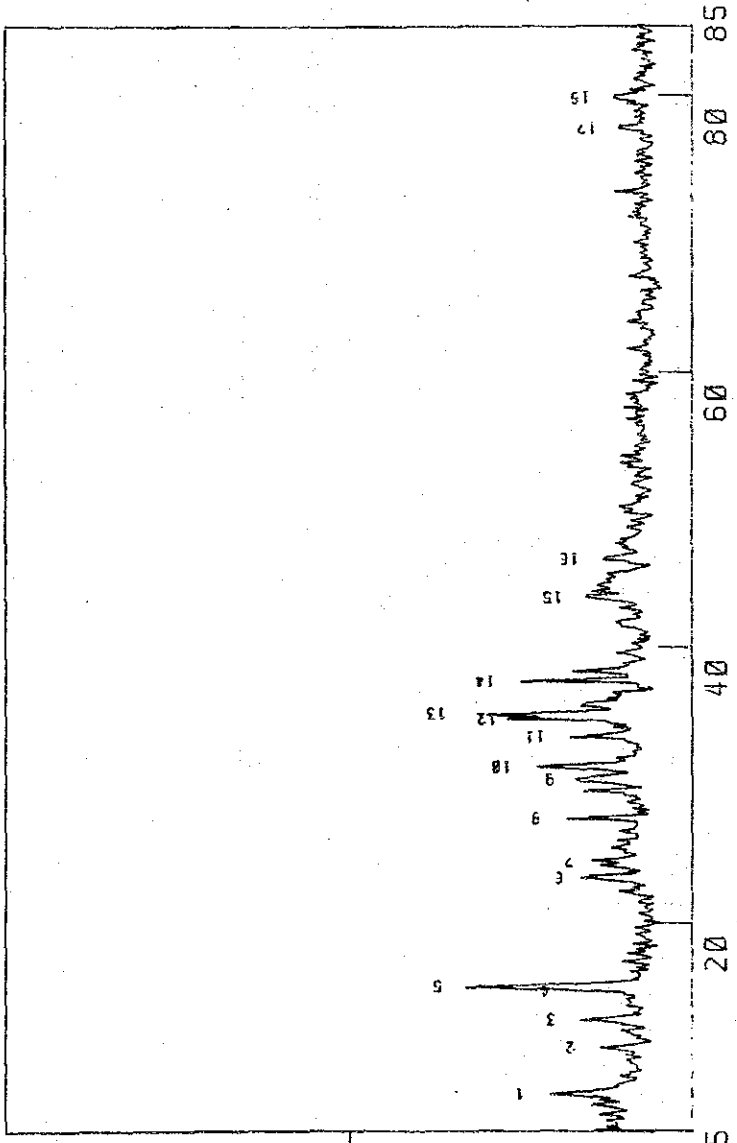
SMOOTHING: 7
 DIFFERENTIAL: 7
 PEAK HEIGHT: 50
 PEAK WIDTH: .1
 BACK GROUND (SAMPLING): 0
 BACK GROUND (REPEAT): 0

Sample Name : AVC-01
 061085

No.	Z	Theta	INTEN	FWHM	I/I ₀
1	1	10.5	105	338	62
2	1	11.5	83	168	45
3	1	12.5	80	198	22
4	1	13.5	77	175	20
5	1	14.5	74	162	19
6	1	15.5	71	150	18
7	1	16.5	68	138	17
8	1	17.5	65	126	16
9	1	18.5	62	114	15
10	1	19.5	59	102	14
11	1	20.5	56	90	13
12	1	21.5	53	78	12
13	1	22.5	50	66	11
14	1	23.5	47	54	10
15	1	24.5	44	42	9
16	1	25.5	41	30	8
17	1	26.5	38	18	7
18	1	27.5	35	6	6
19	1	28.5	32	4	5
20	1	29.5	29	2	4
21	1	30.5	26	1	3
22	1	31.5	23	0	2
23	1	32.5	20	0	1
24	1	33.5	17	0	0
25	1	34.5	14	0	0
26	1	35.5	11	0	0
27	1	36.5	8	0	0
28	1	37.5	5	0	0

Corresponding Minerals to Peak No.

Sample name:	Minerals
AVC-01-061085	
1	Clinocllore
2	Muscovite
3	Cordierite
4	Clinocllore
5	Clinocllore
6	Clinocllore
7	Clinocllore
8	Clinocllore
9	Plagioclase
10	Plagioclase
11	Clinocllore
12	Cordierite,Diopside,Muscovite
13	Diopside
14	Plagioclase
15	Plagioclase
16	Diopside
17	Plagioclase,Diopside
18	Plagioclase,Diopside
19	Plagioclase,Diopside
20	Muscovite
21	Diopside
22	Clinocllore
23	Diopside
24	Plagioclase
25	Clinocllore,Diopside
26	Diopside
27	Clinocllore
28	Diopside,Muscovite



5K

25K

50K

FILE NAME: SA30100 DATE: 12-16-1985

TARGET/FILTER(MONOCYRO): Fe

VOLTAGE/CURRENT: 35KV 15mA

SLITS: DS 1 RS .15

SCAN SPEED: 4 DEG/MIN.

STEP/SAMPLING: .05 DEG

PRESET TIME: 0 SEC

SMOOTHING: 0

OPERATOR:

COMMENT:

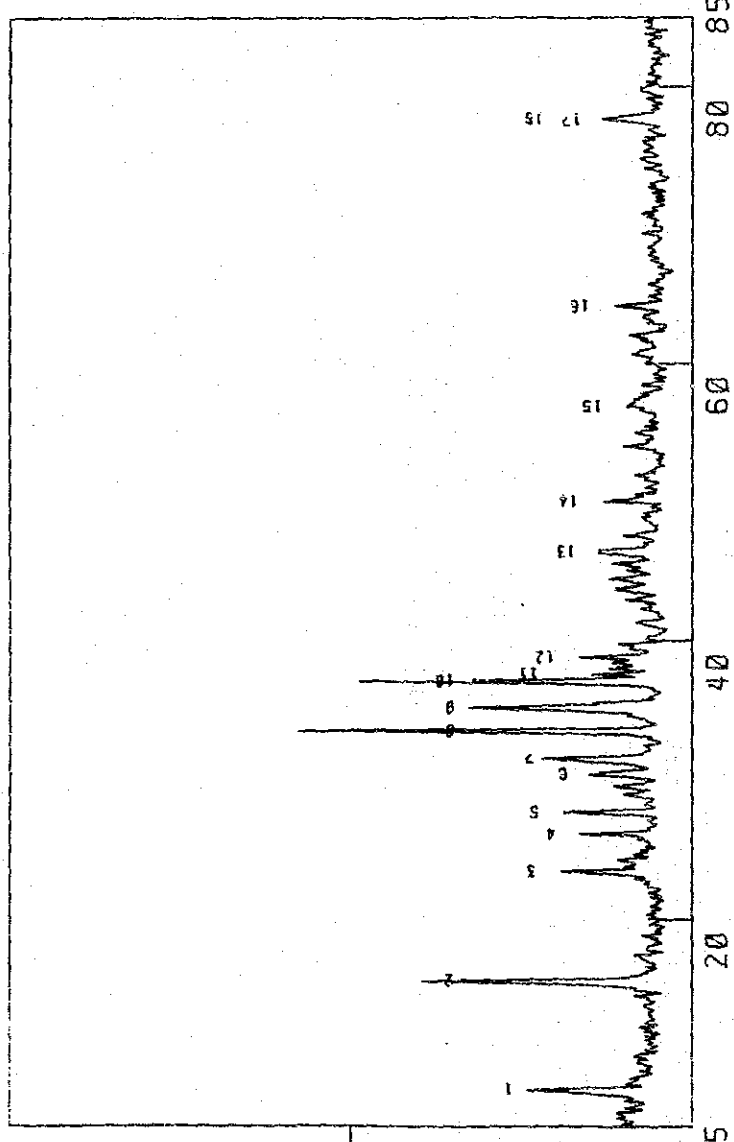
SMOOTHING: 7
DIFFERENTIAL: 9
PEAK HEIGHT: 40
PEAK WIDTH: .1
BACK GROUND (SAMPLING): 0
BACK GROUND (REPEAT): 0

Sample Name : K100502

No.	2 Theta	INTEN	d	FWHM, I/I0
1	15.4	112	4.15	3.05
2	17.7	100	1.60	3.02
3	20.7	97	1.20	3.02
4	22.0	95	1.10	3.02
5	23.0	93	1.05	3.02
6	23.5	92	1.02	3.02
7	23.7	91	1.00	3.02
8	24.0	90	0.98	3.02
9	24.2	89	0.96	3.02
10	24.4	88	0.94	3.02
11	24.6	87	0.92	3.02
12	24.8	86	0.90	3.02
13	25.0	85	0.88	3.02
14	25.2	84	0.86	3.02
15	25.4	83	0.84	3.02
16	25.6	82	0.82	3.02
17	25.8	81	0.80	3.02

Corresponding Minerals to Peak No.

Sample No.	Minerals
1	Clinocllore
2	Clinocllore
3	Clinocllore
4	Quartz, Tridymite
5	Plagioclase, Tridymite
6	Plagioclase
7	Clinocllore
8	Quartz
9	Plagioclase, Tridymite
10	Plagioclase
11	Plagioclase
12	Plagioclase
13	Clinocllore, Plagioclase, Quartz, Cuprite?
14	Quartz
15	Clinocllore
16	Clinocllore, Quartz
17	Clinocllore, Quartz

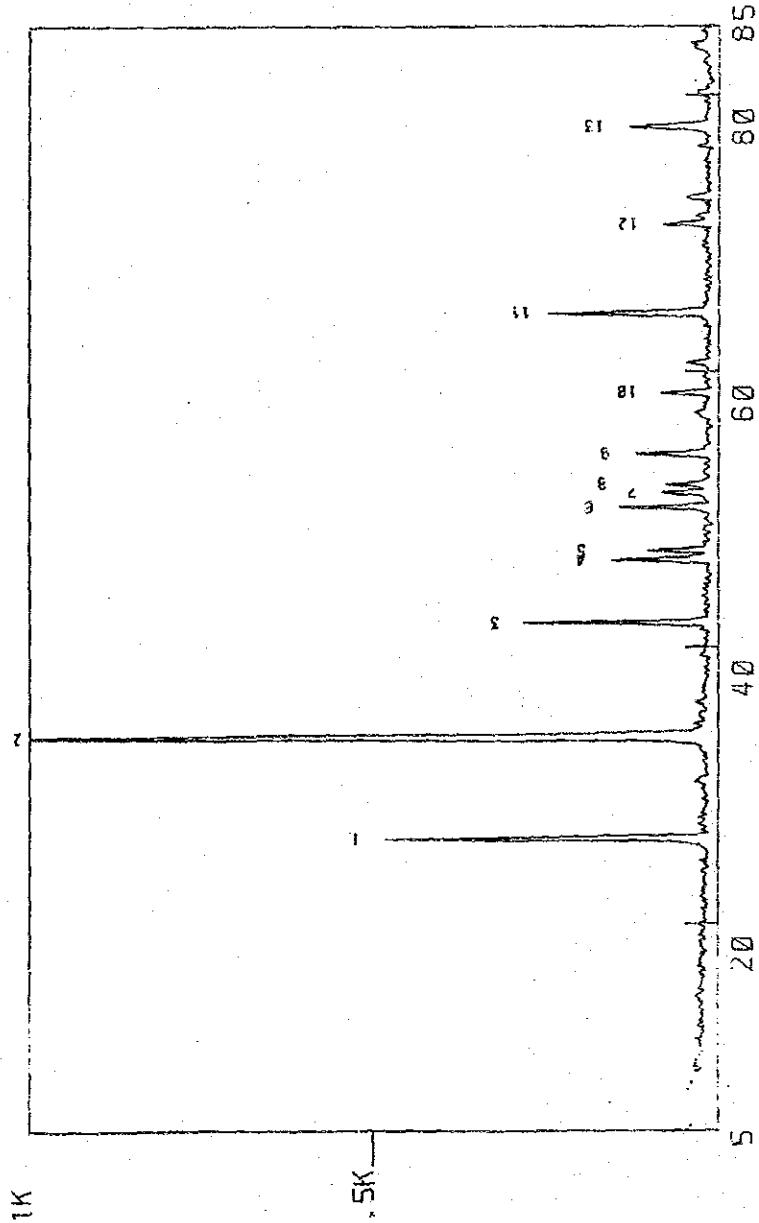


5K
25K

FILE NAME: SA31100
 TARGET/FILTER(MONOCRO): Fe
 VOLTAGE/CURRENT: 35KV 15mA
 SLITS: DS 1 RS .15
 SCAN SPEED: 4 DEG/MIN.
 STEP/SAMPLING: .05 DEG
 PRESET TIME: 0 SEC
 SMOOTHING: 0
 OPERATOR:
 COMMENT:

DATE: 12-16-1985
 SMOOTHING: 7
 DIFFERENTIAL: 11
 PEAK HEIGHT: 50
 PEAK WIDTH: 1
 BACK GROUND (SAMPLING): 0
 BACK GROUND (REPEAT): 0

Sample Name :K100601



Corresponding Minerals to Peak No.

Sample No.	Minerals
1	Quartz
2	Quartz
3	Pyrite
4	Quartz
5	Pyrite
6	Quartz
7	Quartz
8	Pyrite
9	Quartz
10	Quartz
11	Quartz
12	Quartz
13	Quartz

No.	2 Theta	INTEN	FWHM	I/I0
1	37.55	481	4.88	100
2	41.63	228	5.25	19
3	44.70	111	4.58	49
4	45.55	114	4.33	63
5	45.55	111	4.33	63
6	45.55	111	4.33	63
7	45.55	111	4.33	63
8	45.55	111	4.33	63
9	45.55	111	4.33	63
10	45.55	111	4.33	63
11	45.55	111	4.33	63
12	45.55	111	4.33	63
13	45.55	111	4.33	63

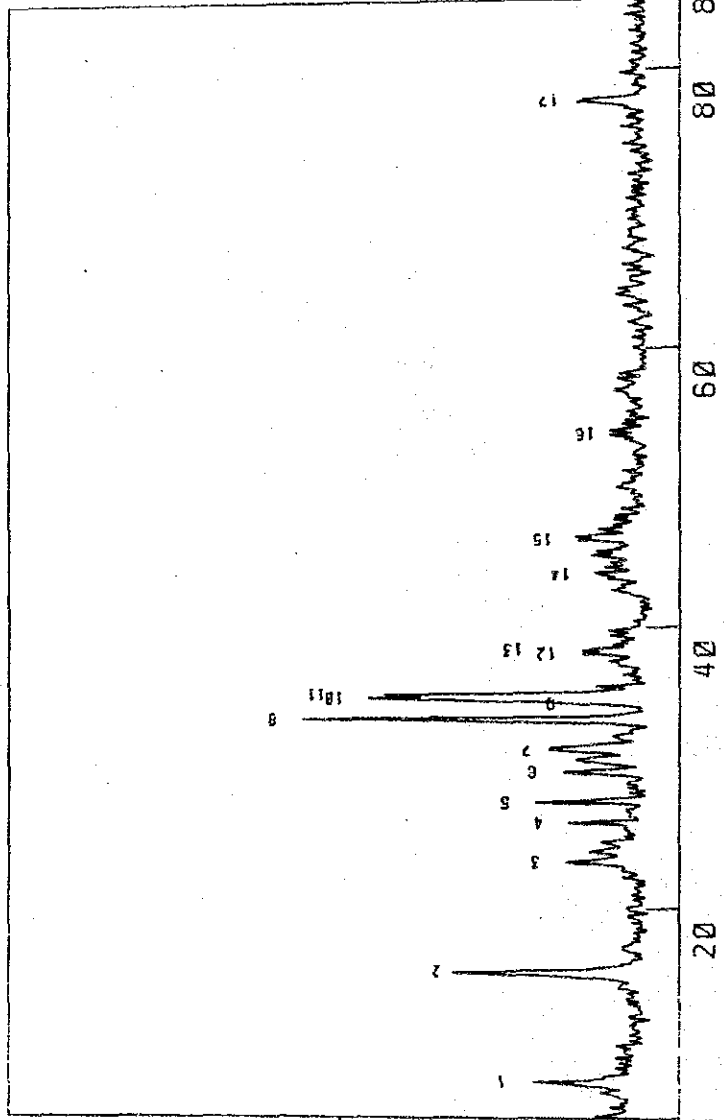
FILE NAME: SA29100
 DATE: 12-16-1985
 TARGET/FILTER(MONOCRO): Fe
 VOLTAGE/CURRENT: 35KV 15mA
 SLITS: DS 1 RS .15
 SCAN SPEED: 4 DEG/MIN.
 STEP/SAMPLING: .05 DEG
 PRESET TIME: 0 SEC
 SMOOTHING: 0
 OPERATOR:
 COMMENT:

SMOOTHING: 7
 DIFFERENTIAL: 7
 PEAK HEIGHT: 40
 PEAK WIDTH: 1
 BACK GROUND (SAMPLING): 0
 BACK GROUND (REPEAT): 0

Sample Name : K100605

5K

CPS .25K



No.	2 Theta	INTEN	FWHM	I/I0
1	1.5	1076	4.1	1.5
2	1.6	54	3.2	1.5
3	1.7	88	3.2	1.5
4	1.8	150	3.2	1.5
5	1.9	100	3.2	1.5
6	2.0	100	3.2	1.5
7	2.1	22	3.2	1.5
8	2.2	22	3.2	1.5
9	2.3	7	3.2	1.5
10	2.4	6	3.2	1.5
11	2.5	4	3.2	1.5
12	2.6	4	3.2	1.5
13	2.7	4	3.2	1.5
14	2.8	4	3.2	1.5
15	2.9	4	3.2	1.5
16	3.0	4	3.2	1.5
17	3.1	4	3.2	1.5

Corresponding Minerals to Peak No.

Sample name; K100605	Minerals
1	Lizardite, Clinocllore
2	Lizardite, Clinocllore
3	Clinocllore
4	Quartz
5	Plagioclase
6	Plagioclase
7	Clinocllore
8	Quartz, Plagioclase
9	Plagioclase
10	Plagioclase
11	Plagioclase
12	Plagioclase
13	Clinocllore
14	Quartz, Clinocllore
15	Quartz, Clinocllore
16	Quartz, Lizardite
17	Quartz, Lizardite

FILE NAME: SA32100 DATE: 12-16-1985

TARGET/FILTER (MONOCHRO): Fe
VOLTAGE/CURRENT: 35KV 15mA

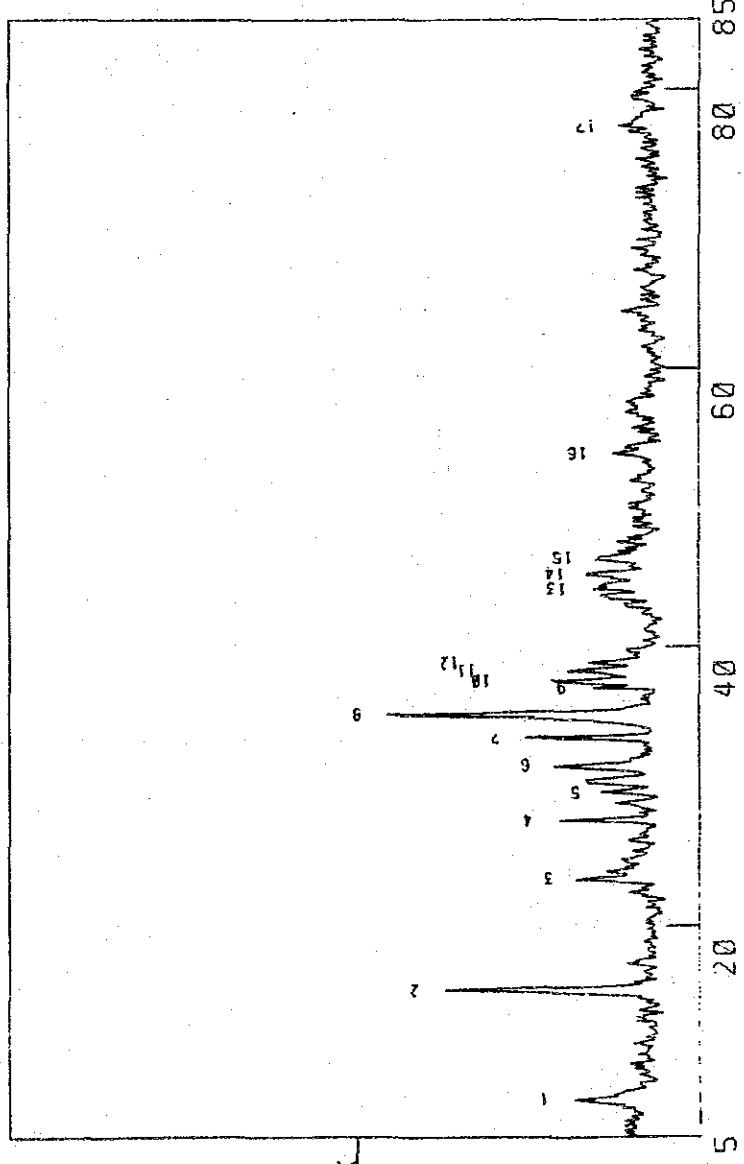
SLITS: 0.5 1 RS .15
SCAN SPEED: 4 DEG/MIN.
STEP/SAMPLING: .05 DEG
PRESET TIME: 0 SEC
SMOOTHING: 0
OPERATOR:
COMMENT:

SMOOTHING: 7
DIFFERENTIAL: 9
PEAK HEIGHT: 40
PEAK WIDTH: 1
BACK GROUND (SAMPLING): 0
BACK GROUND (REPEAT): 0

Sample Name : K100606

5K

25K



No.	2 Theta	INTEN	FWHM 1/10
1	15.4	195	488
2	15.5	180	413
3	16.5	106	563
4	16.5	102	41
5	16.5	102	573
6	17.2	227	373
7	17.6	109	41
8	17.8	109	533
9	18.0	178	41
10	18.2	265	533
11	18.3	1	41
12	18.3	1	533
13	18.3	1	41
14	18.3	1	533
15	18.3	1	41
16	18.3	1	533
17	18.3	1	41

Corresponding Minerals to Peak No.

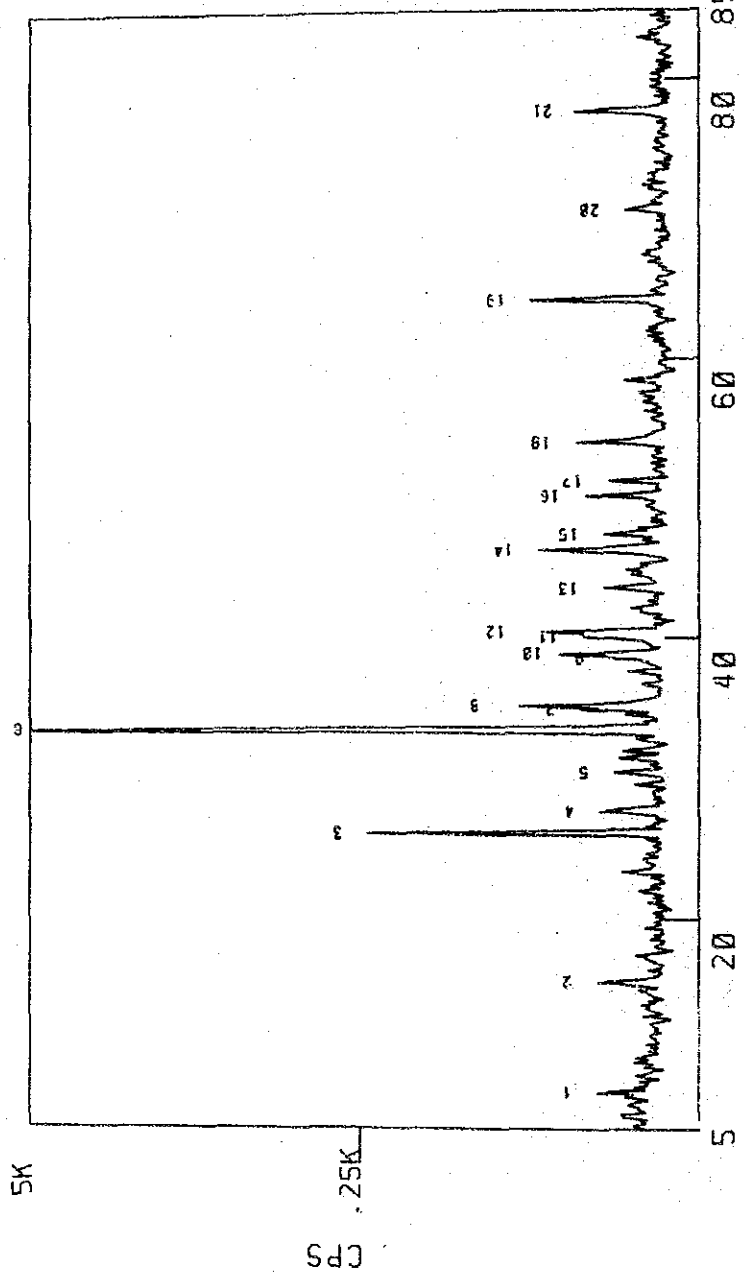
Sample No.	Minerals
1	Clinocllore
2	Clinocllore
3	Clinocllore
4	Plagioclase
5	Plagioclase
6	Clinocllore
7	Plagioclase, Quartz?
8	Plagioclase
9	Plagioclase
10	Plagioclase
11	Plagioclase
12	Plagioclase
13	Clinocllore
14	Plagioclase
15	Clinocllore
16	Cuprite?
17	Clinocllore

FILE NAME: SA33100
 DATE: 12-16-1985
 TARGET/FILTER(MONOCROM): Fe
 VOLTAGE/CURRENT: 35KV 15mA
 SLITS: DS 1 RS .15
 SCAN SPEED: 4 DEG/MIN.
 STEP/SAMPLING: .05 DEG
 PRESET TIME: 0 SEC
 SMOOTHING: 0
 OPERATOR:
 COMMENT:

SMOOTHING: 7
 DIFFERENTIAL: 9
 PEAK HEIGHT: 30
 PEAK WIDTH: .1
 BACK GROUND (SAMPLING): 0
 BACK GROUND (REPEAT): 0

Sample Name : K100905

No.	Theta	INTEN	EMM. I/10
1	27.6	7	2000
2	35.5	7	4000
3	37.1	24	4000
4	37.7	27	4000
5	40.7	67	5000
6	41.5	115	5000
7	42.5	165	5000
8	43.5	165	5000
9	44.5	165	5000
10	45.5	165	5000
11	46.5	165	5000
12	47.5	165	5000
13	48.5	165	5000
14	49.5	165	5000
15	50.5	165	5000
16	51.5	165	5000
17	52.5	165	5000
18	53.5	165	5000
19	54.5	165	5000
20	55.5	165	5000
21	56.5	165	5000
22	57.5	165	5000
23	58.5	165	5000
24	59.5	165	5000
25	60.5	165	5000
26	61.5	165	5000
27	62.5	165	5000
28	63.5	165	5000
29	64.5	165	5000
30	65.5	165	5000
31	66.5	165	5000
32	67.5	165	5000
33	68.5	165	5000
34	69.5	165	5000
35	70.5	165	5000
36	71.5	165	5000
37	72.5	165	5000
38	73.5	165	5000
39	74.5	165	5000
40	75.5	165	5000
41	76.5	165	5000
42	77.5	165	5000
43	78.5	165	5000
44	79.5	165	5000
45	80.5	165	5000
46	81.5	165	5000
47	82.5	165	5000
48	83.5	165	5000
49	84.5	165	5000
50	85.5	165	5000



Corresponding Minerals to Peak No.

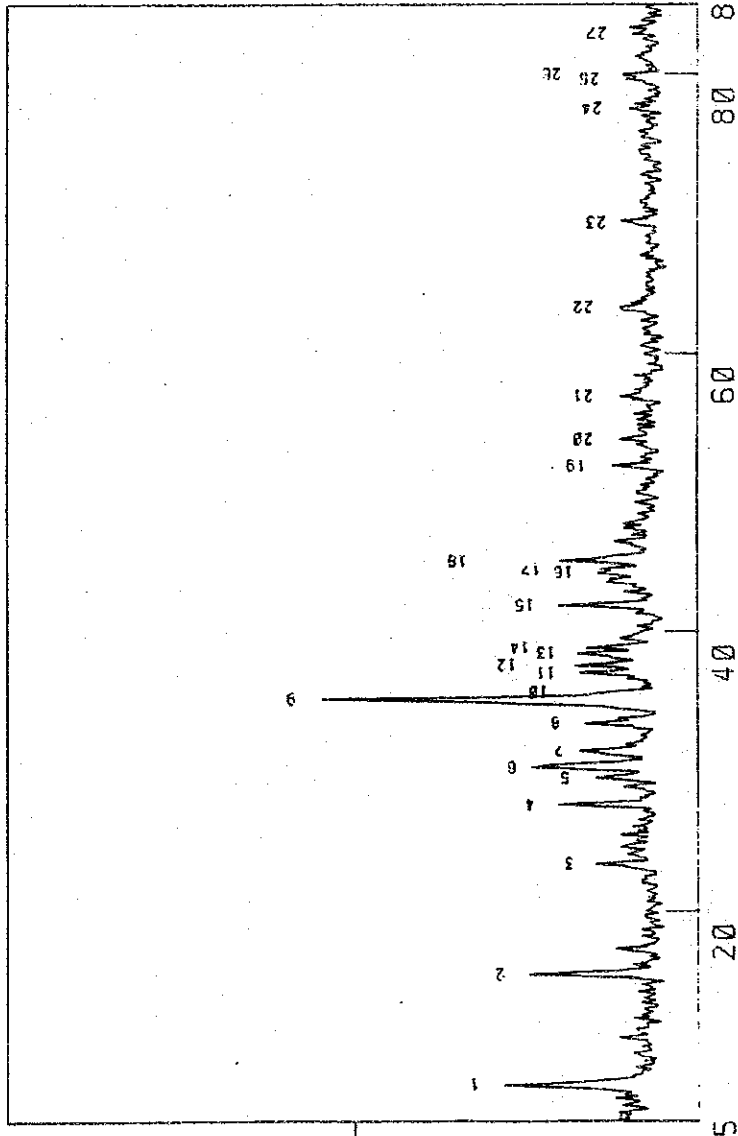
Sample No.	Minerals
1	Clinocllore
2	Clinocllore
3	Quartz
4	Plagioclase
5	Plagioclase
6	Quartz
7	Plagioclase
8	Plagioclase
9	Plagioclase
10	Plagioclase
11	Clinocllore
12	Clinocllore
13	Clinocllore
14	Quartz, Plagioclase
15	Quartz, Plagioclase
16	Quartz, Plagioclase
17	Quartz, Plagioclase
18	Quartz, Plagioclase
19	Quartz
20	Quartz
21	Quartz

FILE NAME: SA41100
 TARGET/FILTER (MONOCHRO): Fe
 VOLTAGE/CURRENT: 35KV 15mA
 SLITS: DS 1 RS 15
 SCAN SPEED: 4 DEG/MIN.
 STEP/SAMPLING: .05 DEG
 PRESET TIME: 0 SEC
 SMOOTHING: 0
 OPERATOR:
 COMMENT:

SMOOTHING: 7
 DIFFERENTIAL: 9
 PEAK HEIGHT: 30
 PEAK WIDTH: 1
 BACK GROUND (SAMPLING): 0
 BACK GROUND (REPEAT): 0

Sample Name : K100907

5K



No.	2 Theta	INTEN	FWHM	I/I0
1	1.5	142	4.5	1.2
2	1.5	123	4.0	1.1
3	1.5	101	3.5	1.0
4	1.5	117	3.8	1.1
5	1.5	179	5.0	1.3
6	1.5	222	6.0	1.5
7	1.5	222	6.0	1.5
8	1.5	222	6.0	1.5
9	1.5	222	6.0	1.5
10	1.5	222	6.0	1.5
11	1.5	222	6.0	1.5
12	1.5	222	6.0	1.5
13	1.5	222	6.0	1.5
14	1.5	222	6.0	1.5
15	1.5	222	6.0	1.5
16	1.5	222	6.0	1.5
17	1.5	222	6.0	1.5
18	1.5	222	6.0	1.5
19	1.5	222	6.0	1.5
20	1.5	222	6.0	1.5
21	1.5	222	6.0	1.5
22	1.5	222	6.0	1.5
23	1.5	222	6.0	1.5
24	1.5	222	6.0	1.5
25	1.5	222	6.0	1.5
26	1.5	222	6.0	1.5
27	1.5	222	6.0	1.5

Corresponding Minerals to Peak No.

No.	Minerals
1	Clinochlore
2	Clinochlore
3	Clinochlore
4	Clinochlore, Plagioclase
5	Plagioclase
6	Hematite, Plagioclase
7	Clinochlore
8	Plagioclase
9	Plagioclase
10	Plagioclase
11	Plagioclase
12	Plagioclase
13	Clinochlore
14	Clinochlore
15	Hematite
16	Clinochlore
17	Hematite, Plagioclase
18	Hematite
19	Plagioclase
20	Plagioclase
21	Plagioclase
22	Hematite
23	Hematite
24	Clinochlore
25	Clinochlore
26	Clinochlore
27	Hematite

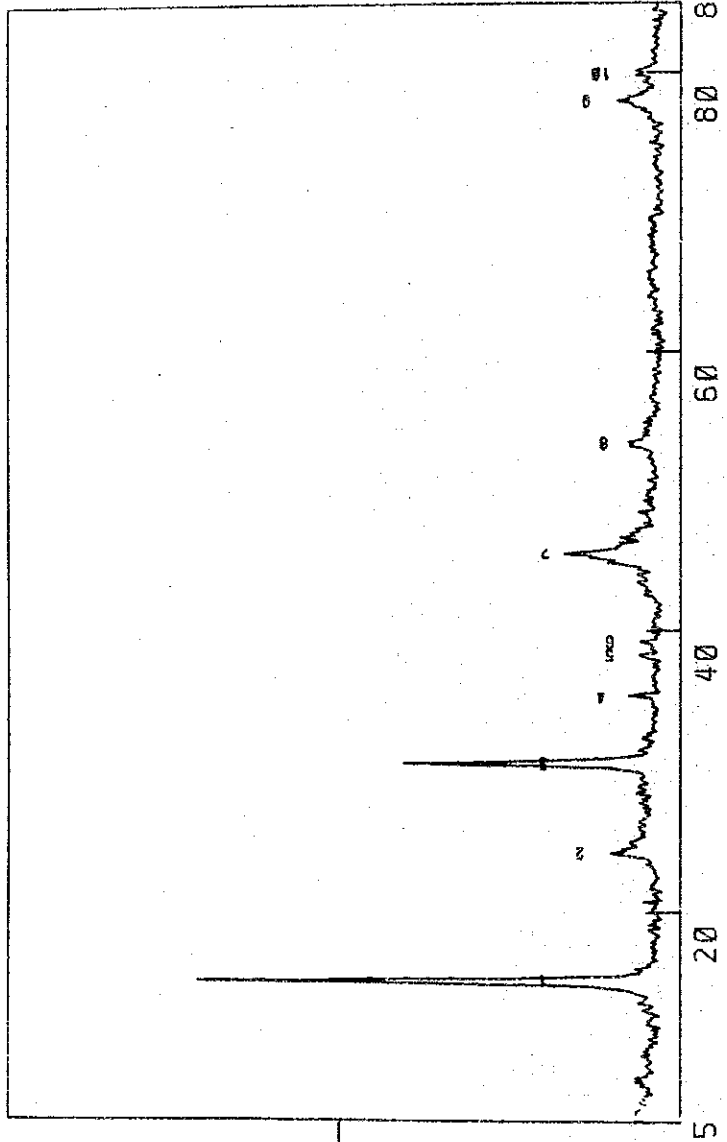
FILE NAME: SA42100 DATE: 12-14-1985
 TARGET/FILTER (MONOCHRO): Fe
 VOLTAGE/CURRENT: 35KV 15mA
 SLITS: DS 1 RS 15
 SCAN SPEED: 4 DEG/MIN.
 STEP/SAMPLING: .05 DEG
 PRESET TIME: 0 SEC
 SMOOTHING: 0
 OPERATOR:
 COMMENT:

SMOOTHING: 7
 DIFFERENTIAL: 11
 PEAK HEIGHT: 100
 PEAK WIDTH: 1
 BACK GROUND (SAMPLING): 0
 BACK GROUND (REPEAT): 0

Sample Name : K100701

1K

CPS .5K



No.	2 Theta	INTEN	FWHM	I/I0
1	15.1	609	563	100
2	24.2	1003	563	114
3	30.3	4	563	17
4	33.8	23	563	1000
5	33.8	23	563	1000
6	45.3	1	563	1
7	53.4	57	563	1039
8	79.6	8	563	11

Corresponding Minerals to Peak No.

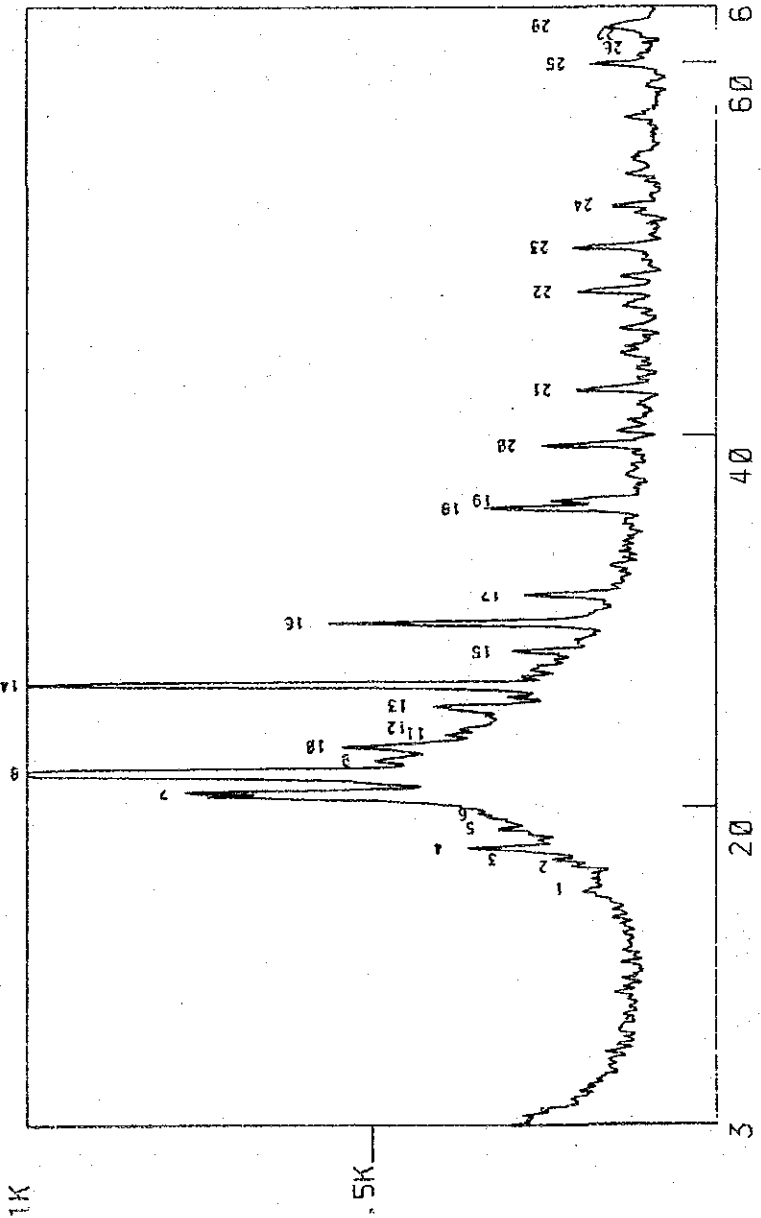
Sample name: K100701
 No. Minerals
 1 Lizardite
 2 Lizardite
 3 Lizardite, Plagioclase
 4 Plagioclase
 5 Plagioclase
 6 Lizardite, Plagioclase
 7 Lizardite
 8 Lizardite
 9 Lizardite
 10 Lizardite

FILE NAME: SAW2100 DATE: 12-16-1985

TARGET/FILTER(MONOCHR): Cu
VOLTAGE/CURRENT: 35KV 15mA
SLITS: DS 1 RS .15
SCAN SPEED: 4 DEG/MIN.
STEP/SAMPLING: .05 DEG
PRESET TIME: 0 SEC
SMOOTHING: 0
OPERATOR:
COMMENT:

SMOOTHING: 7
DIFFERENTIAL: 11
PEAK HEIGHT: 50
PEAK WIDTH: 1
BACK GROUND (SAMPLING): 0
BACK GROUND (REPEAT): 0

Sample Name : NFS02R



No.	2 Theta	IN	IEN	FWHM	I/I0
1	10.0	1.8	1.8	4.1	1.1
2	11.6	1.2	1.2	4.8	1.1
3	17.7	1.1	1.1	3.5	1.2
4	17.8	1.1	1.1	3.5	1.2
5	18.0	1.1	1.1	3.5	1.2
6	18.1	1.1	1.1	3.5	1.2
7	18.2	1.1	1.1	3.5	1.2
8	18.3	1.1	1.1	3.5	1.2
9	18.4	1.1	1.1	3.5	1.2
10	18.5	1.1	1.1	3.5	1.2
11	18.6	1.1	1.1	3.5	1.2
12	18.7	1.1	1.1	3.5	1.2
13	18.8	1.1	1.1	3.5	1.2
14	18.9	1.1	1.1	3.5	1.2
15	19.0	1.1	1.1	3.5	1.2
16	19.1	1.1	1.1	3.5	1.2
17	19.2	1.1	1.1	3.5	1.2
18	19.3	1.1	1.1	3.5	1.2
19	19.4	1.1	1.1	3.5	1.2
20	19.5	1.1	1.1	3.5	1.2
21	19.6	1.1	1.1	3.5	1.2
22	19.7	1.1	1.1	3.5	1.2
23	19.8	1.1	1.1	3.5	1.2
24	19.9	1.1	1.1	3.5	1.2
25	20.0	1.1	1.1	3.5	1.2
26	20.1	1.1	1.1	3.5	1.2
27	20.2	1.1	1.1	3.5	1.2

Corresponding Minerals to Peak No.

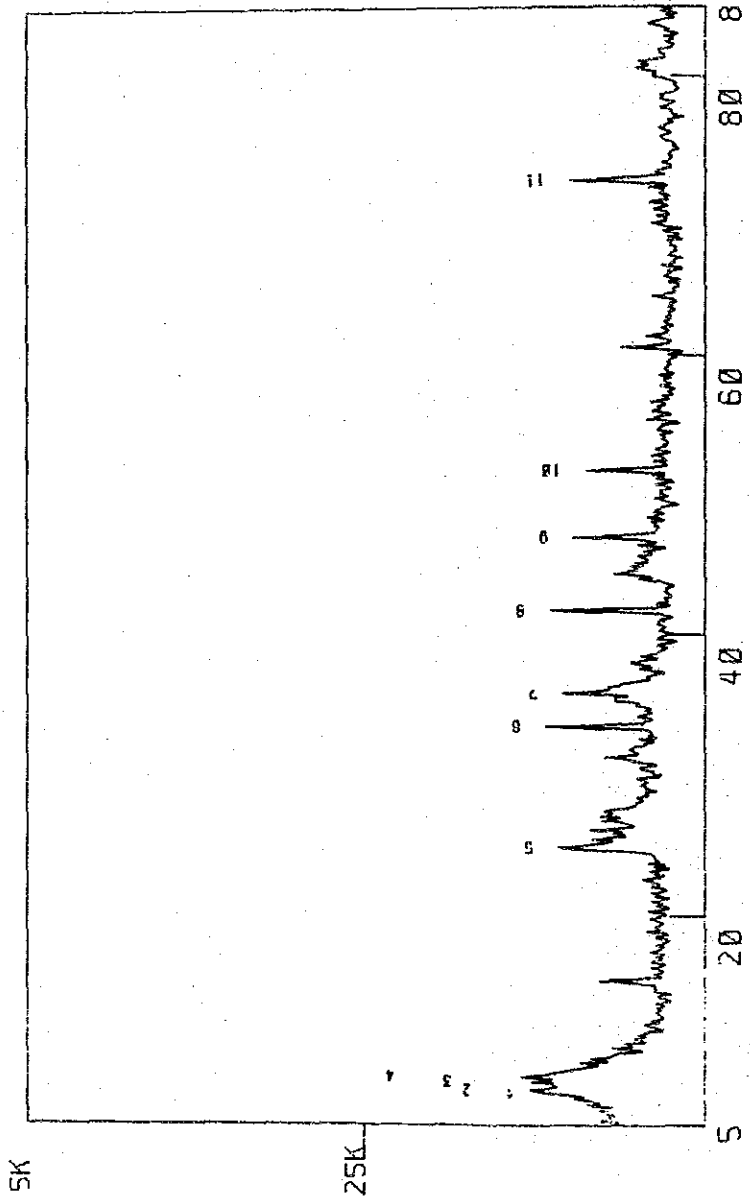
Sample name:	Minerals
NFS02R	
1	Alumite
4	Alumite
7	Quartz
8	Cristobarite, Tridymite
9	
10	Tridymite
11	
12	
13	Cristobarite, Alumite
14	Quartz
15	Cristobarite
16	Alumite
17	Cristobarite
18	Cristobarite, Tridymite, Alumite
19	Quartz
20	Quartz, Alumite
21	Cristobarite, Quartz
22	Alumite
23	Quartz
24	Alumite
25	Quartz
26	Tridymite
27	Cristobarite

FILE NAME: SA47100
 DATE: 12-14-1985
 TARGET/FILTER (MONOCHRO): Fe
 VOLTAGE/CURRENT: 35KV 15mA
 SLITS: DS 1 RS .15
 SCAN SPEED: 4 DEG/MIN.
 STEP/SAMPLING: .05 DEG
 PRESET TIME: 0 SEC
 SMOOTHING: 0
 OPERATOR: T. Sawada
 COMMENT:

SMOOTHING: 7
 DIFFERENTIAL: 9
 PEAK HEIGHT: 50
 PEAK WIDTH: 1
 BACK GROUND (SAMPLING): 0
 BACK GROUND (REPEAT): 0

Sample Name : NFS01R

No. 1 2 3 4 5 6 7 8 9 10 11
 2 Theta 7.455 7.555 7.655 7.755 7.855 7.955 8.055 8.155 8.255 8.355 8.455
 IN TEN 11 12 13 14 15 16 17 18 19 20 21
 d 7.02 6.69 6.35 6.02 5.70 5.38 5.06 4.74 4.42 4.10 3.78
 FWHM I/I0 5.338 5.261 5.184 5.107 5.030 4.953 4.876 4.799 4.722 4.645 4.568



Corresponding Minerals to Peak No.

Sample name:	NFS01R
No. Minerals	
1	Montmorillonite
2	
3	
4	Montmorillonite
5	Montmorillonite, Quartz
6	Montmorillonite, Pyrite
7	Pyrite
8	Pyrite, Nacrite
9	Pyrite
10	Pyrite
11	Pyrite

FILE NAME: SA46100 DATE: 12-15-1985

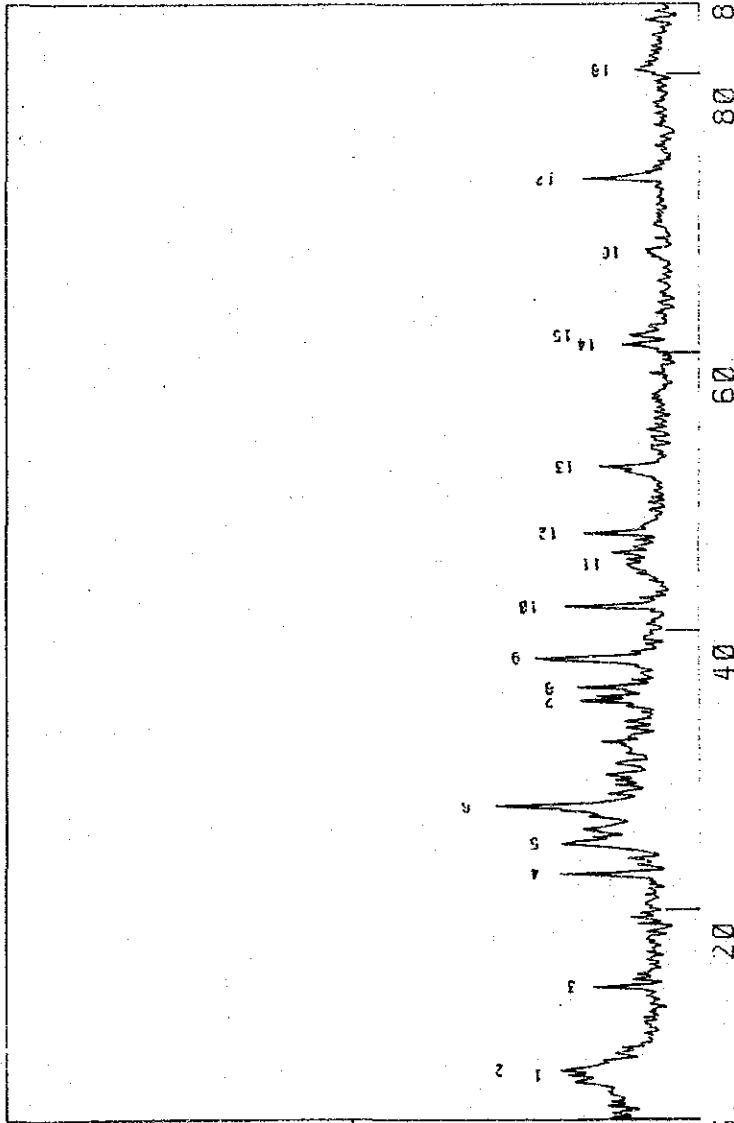
TARGET/FILTER (MONOCHRO): Fe
VOLTAGE/CURRENT: 35KV 15mA

SLITS: DS 1 RS .15
SCAN SPEED: 4 DEG/MIN.
STEP/SAMPLING: .05 DEG
PRESET TIME: 0 SEC
SMOOTHING: 0
OPERATOR: T. Sawada
COMMENT:

SMOOTHING: 7
DIFFERENTIAL: 9
PEAK HEIGHT: 50
PEAK WIDTH: .1
BACK GROUND (SAMPLING): 0
BACK GROUND (REPEAT): 0

Sample Name : NB153R

No.	Theta	INTEN	FWHM	I/I0
1	8.26	968	1.263	0.60
2	8.9	907	1.41	0.60
3	12.4	908	1.56	0.60
4	24.3	148	1.41	0.60
5	27.9	188	1.56	0.60
6	33.5	118	1.41	0.60
7	38.1	193	1.56	0.60
8	44.7	195	1.41	0.60
9	50.3	154	1.56	0.60
10	56.8	27	1.41	0.60
11	60.3	43	1.56	0.60
12	66.7	54	1.41	0.60
13	72.5	99	1.56	0.60
14	77.8	67	1.41	0.60
15	82.5	4	1.56	0.60



Corresponding Minerals to Peak No.

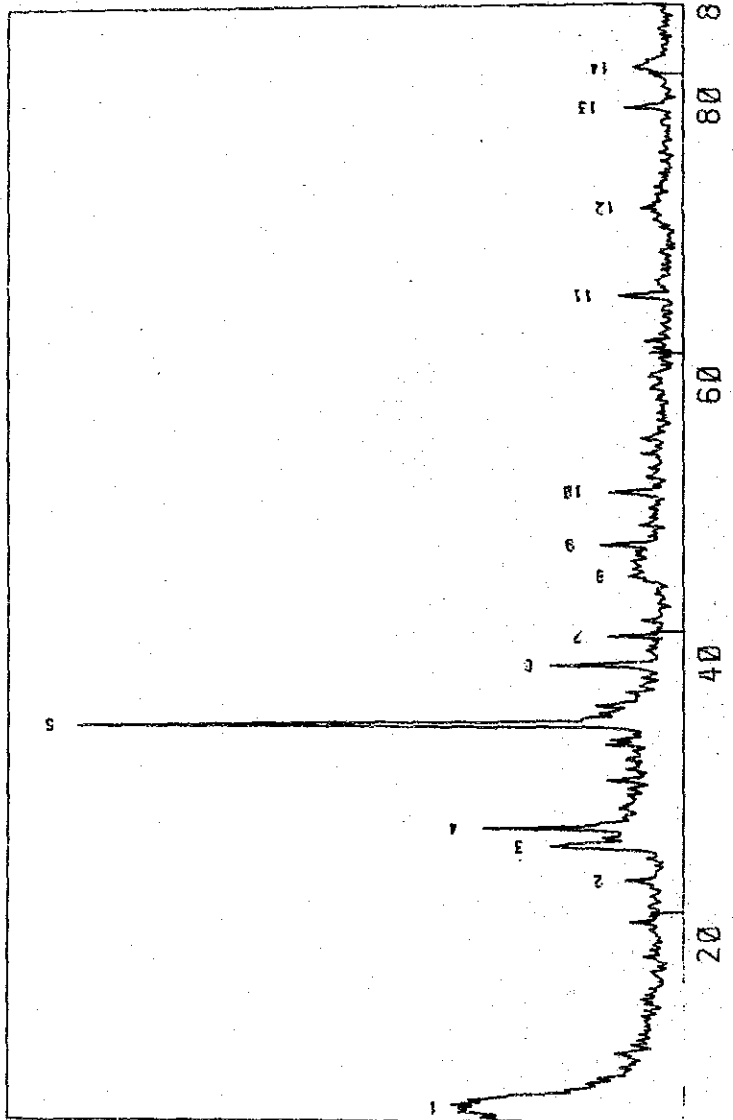
Sample name; NB 153R	Minerals
1,2	Montmorillonite
3	Gypsum?
4	Natroalunite
5	Montmorillonite
6	Plagioclase?
7	Montmorillonite, Plagioclase?
8	Pyrite, Plagioclase
9	Natroalunite, Plagioclase
10	Pyrite
11	Montmorillonite
12	Pyrite, Natroalunite
13	Pyrite
14	Pyrite
15	Natroalunite, Gypsum
16	Natroalunite
17	Pyrite, Natroalunite
18	Montmorillonite, Pyrite

5K
25K

FILE NAME: SA34100 DATE: 12-15-1985
 TARGET/FILTER(MONOCYRO): Fe
 VOLTAGE/CURRENT: 35KV 15mA
 SLITS: DS 1 RS .15
 SCAN SPEED: 4 DEG/MIN.
 STEP/SAMPLING: .05 DEG
 PRESET TIME: 0 SEC
 SMOOTHING: 7
 DIFFERENTIAL: 9
 PEAK HEIGHT: 50
 PEAK WIDTH: 1
 BACK GROUND (SAMPLING): 0
 BACK GROUND (REPEAT): 0
 OPERATOR:
 COMMENT:

No 1 2 3 4 5 6 7 8 9 10 11 12 13 14
 2 Theta 24.8 3 26.1 45 27.7 4 28.2 25 46.0 5 50.4 1 4 77.6 5
 INTEN 160 1 49 1 44 1 49 1 69 1 58 1 1 4 3 4 6
 FWHM I/I 0 4.95*** 4.5*** 4.025*** 3.753 3.413
 18.0 15.4 14.3 13.2 12.2 12.2 11.1 11.1 11.1 11.1 11.1 11.1 11.1 11.1 11.1

Sample Name : NFS04R



Corresponding Minerals to Peak No.

Sample No.	Minerals
1	Montmorillonite
2	Montmorillonite
3	Quartz, Tridymite
4	Quartz, Tridymite
5	Tridymite, Orthoclase?
6	Malachite?
7	Montmorillonite, Orthoclase?
8	Quartz
9	Quartz, Tridymite
10	Quartz
11	Quartz
12	Quartz
13	Quartz
14	Montmorillonite, Orthoclase?

.5K
 .25K
 0

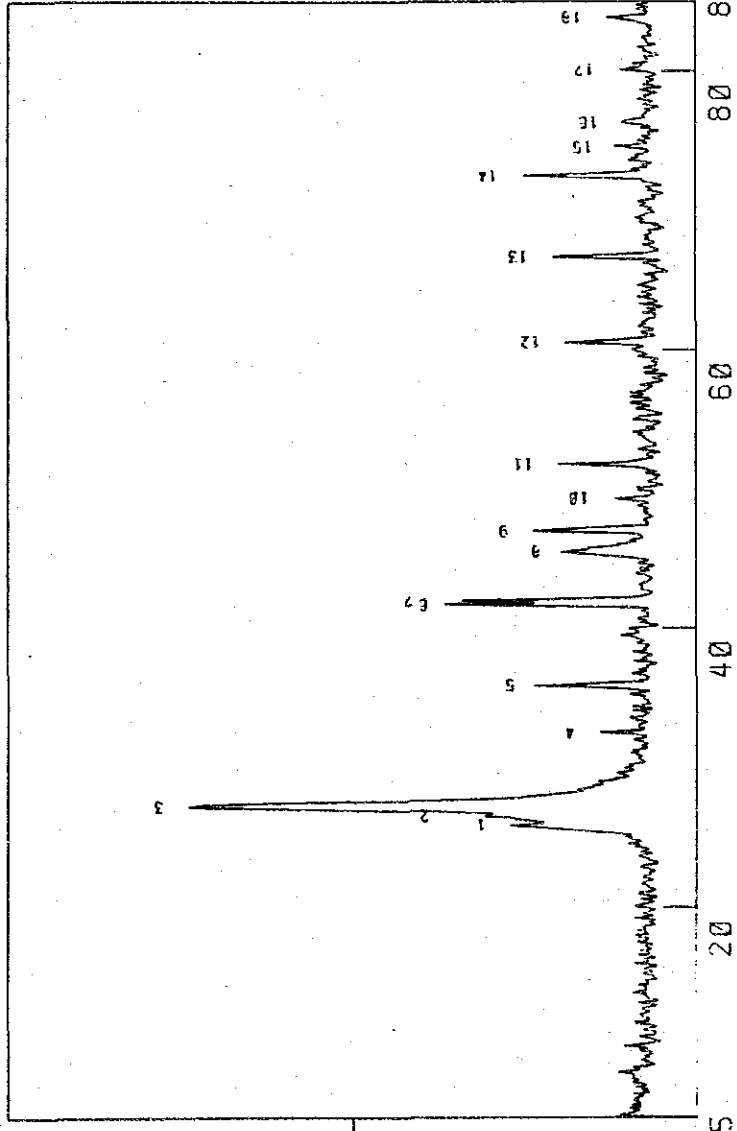
5 20 40 60 80 85

FILE NAME: SA43100
 TARGET/FILTER (MONOCHRO): Fe
 VOLTAGE/CURRENT: 35KV 15mA
 SLITS: DS 1 RS 15
 SCAN SPEED: 4 DEG/MIN.
 STEP/SAMPLING: .05 DEG
 PRESET TIME: 0 SEC
 SMOOTHING: 0
 OPERATOR:
 COMMENT:

DATE: 12-15-1985
 SMOOTHING: 7
 DIFFERENTIAL: 9
 PEAK HEIGHT: 50
 PEAK WIDTH: 1
 BACK GROUND (SAMPLING): 0
 BACK GROUND (REPEAT): 0

Sample Name : 100703
 K

No.	Th	Int	FWHM	I/I ₀
1	2.5	135	483	1.716
2	2.6	568	131	4.4
3	2.7	714	131	4.4
4	2.8	114	85	4.4
5	2.9	172	33	4.4
6	3.0	165	33	4.4
7	3.1	165	33	4.4
8	3.2	165	33	4.4
9	3.3	165	33	4.4
10	3.4	165	33	4.4
11	3.5	165	33	4.4
12	3.6	165	33	4.4
13	3.7	165	33	4.4
14	3.8	165	33	4.4
15	3.9	165	33	4.4
16	4.0	165	33	4.4
17	4.1	165	33	4.4
18	4.2	165	33	4.4



Corresponding Minerals to Peak No.

Sample No.	Minerals
1	Tridymite
2,3	Cristobarite, Tridymite
4	Marcasite
5	Cristobarite, Pyrite
6	Marcasite
7	Pyrite, Tridymite
8	Cristobarite
9	Pyrite
10	Marcasite, Tridymite
11	Pyrite
12	Pyrite
13	Marcasite, Cristobarite
14	Pyrite
15	Marcasite
16	Pyrite
17	Pyrite
18	Pyrite

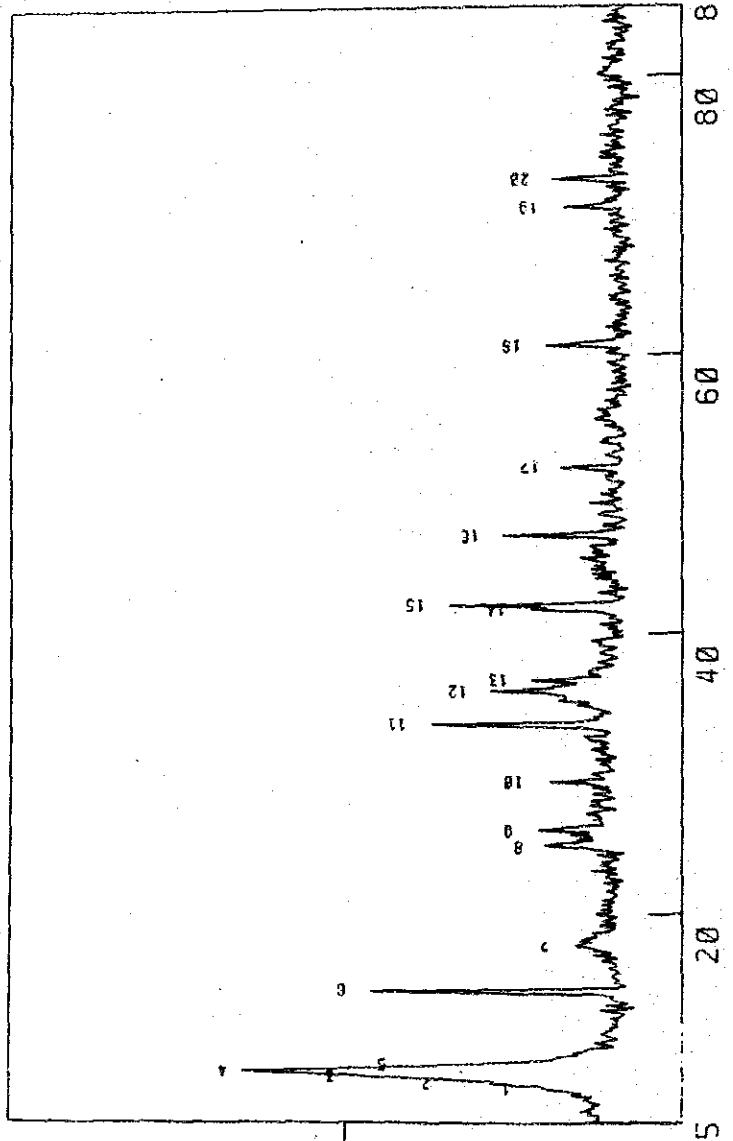
FILE NAME: SA44100 DATE: 12-15-1985
 TARGET/FILTER(MONOCYRO): Fe
 VOLTAGE/CURRENT: 35KV 15mA
 SLITS: DS 1 RS .15
 SCAN SPEED: 4 DEG/MIN.
 STEP/SAMPLING: .05 DEG
 PRESET TIME: 0 SEC
 SMOOTHING: 0
 OPERATOR: T. Sawada
 COMMENT:

SMOOTHING: 7
 DIFFERENTIAL: 7
 PEAK HEIGHT: 40
 PEAK WIDTH: 1
 BACK GROUND (SAMPLING): 0
 BACK GROUND (REPEAT): 0

K
 Sample Name : 100704

No	Theta	INTEN	FWHM	I/I0
1	2.5	107	2.26	1/3
2	2.8	142	2.68	4/5
3	3.0	123	4.88	2
4	3.2	22	3.9	1
5	3.4	150	3.5	2
6	3.5	100	4.8	2
7	3.6	90	4.8	2
8	3.7	100	4.8	2
9	3.8	111	4.8	2
10	3.9	111	4.8	2
11	4.0	111	4.8	2
12	4.1	111	4.8	2
13	4.2	111	4.8	2
14	4.3	111	4.8	2
15	4.4	111	4.8	2
16	4.5	111	4.8	2
17	4.6	111	4.8	2
18	4.7	111	4.8	2
19	4.8	111	4.8	2
20	4.9	111	4.8	2

5K



Corresponding Minerals to Peak No.

Sample name:	Minerals
1-5	Montmorillonite
6	Gypsum
7	Montmorillonite
8	Montmorillonite
9	Gypsum, Quartz
10	Gypsum
11	Quartz
12	Montmorillonite, Pyrite
13	Gypsum
14	Marcasite
15	Pyrite
16	Pyrite
17	Pyrite
18	Pyrite
19	Quartz, Marcasite
20	Pyrite

I. NAME: SA45100
 TARGET/FILTER(MONOCYRO): Fe
 VOLTAGE/CURRENT: 35KV 15mA
 SLITS: DS 1 RS .15
 SCAN SPEED: 4 DEG/MIN.
 STEP/SAMPLING: .05 DEG
 PRESET TIME: 0 SEC
 SMOOTHING: 0
 OPERATOR: T. Sawada
 COMMENT:

No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14

2 Theta 14.5 15.9 16.9 17.2 17.6 18.5 19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5

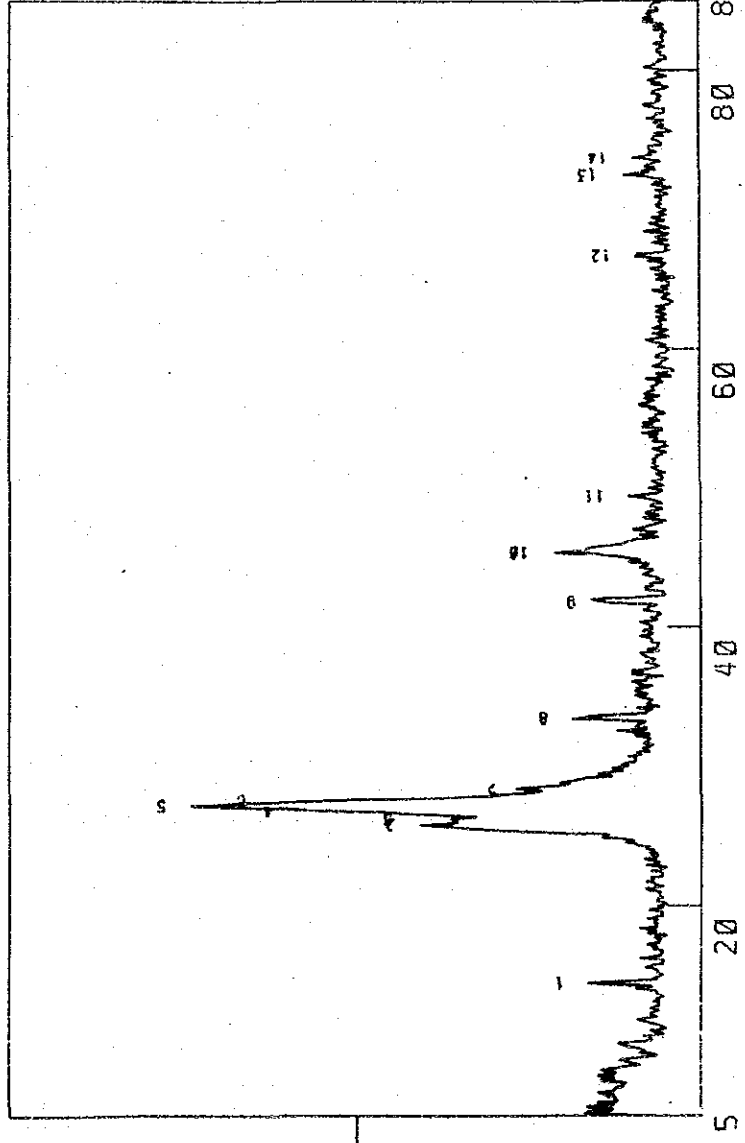
INTEN 162 144 122 108 95 83 72 62 52 42 32 22 12 11 10

FWHM 1.22 1.48 1.70 1.88 2.04 2.21 2.38 2.55 2.72 2.89 3.06 3.23 3.40 3.57

I/I0 1/10 1/20 1/30 1/40 1/50 1/60 1/70 1/80 1/90 1/100 1/110 1/120 1/130 1/140

SMOOTHING: 7
 DIFFERENTIAL: 5
 PEAK HEIGHT: 100
 PEAK WIDTH: .1
 BACK GROUND (SAMPLING): 0
 BACK GROUND (REPEAT): 0

K
 Sample Name : 100705



Corresponding Minerals to Peak No.

- Sample name: K100705
- No. Minerals
 - 1 Renardite?
 - 2 Tridymite, Renardite?
 - 3
 - 4-6 Cristobarite, Tridymite
 - 7
 - 8 Quartz?
 - 9 Pyrite, Marcasite
 - 10 Cristobarite, Tridymite
 - 11 Tridymite, Marcasite
 - 12 Marcasite,
 - 13 Cristobarite, Tridymite
 - 14

Appendix 5-2 X-Ray Diffraction Chart Northern Leyte Area

No.	Sample No.	q	cri	tri	or	pl	mu	mo	ch	gy	al	ser	nac	cor	diop	py	pyr	mar	cup	hem	mal	tet	dol	ren
1	AVC01 061085					⊙	○		⊙					○	○									
2	K 100502	⊙	○			⊙			⊙										●					
3	K 100601	⊙														⊙								
4	K 100605	⊙				⊙			⊙			○												
5	K 100606	○				⊙			⊙										○					
6	K 100706		⊙													⊙		○						
7	K 100707							○		⊙						○							⊙	
8	AVC3 101085	⊙							⊙							⊙								
9	NFS 09R	⊙						⊙	⊙													⊙		
10	AVC03 061085								⊙											⊙				
11	K 100905	⊙				⊙			⊙															
12	K 100907					⊙			⊙											⊙				
13	K 100701					⊙																		
14	NFS 02R	⊙	⊙							⊙														
15	NFS 01R	○						⊙								⊙								
16	NB 153R					⊙		⊙		○						⊙								
17	NFS 04R	⊙						⊙																
18	K 100703		⊙													⊙								
19	K 100704	○						⊙		⊙						⊙								
20	K 100705	○	⊙																					⊙

q ; quartz
 cri ; cristobalite
 tri ; tridymite
 or ; orthoclase
 pl ; plagioclase
 mu ; muscovite
 mo ; montmorillonite
 ch ; chlorite
 gy ; gypsum
 al ; alumina
 nac ; anacrite
 cor ; cordierite
 diop ; diopside
 py ; pyrite
 pyr ; pyrothite
 mar ; marcasite
 cup ; cuprite
 hem ; hematite
 mal ; malachite
 tet ; tetrahedrite
 dol ; dolomite
 ren ; renardite

⊙ ; abundant
 ⊙ ; medium amount
 ○ ; small amount
 ○ ; extra-small amount