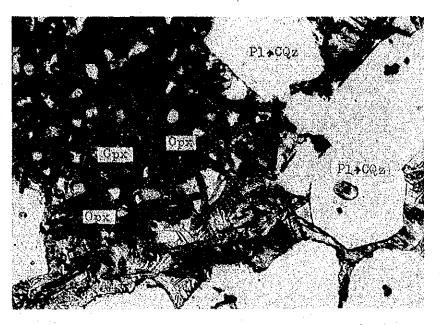
Cauayan Area



Opx; Orthopyroxene Cpx; Clinopyroxene Pl→CQz; Plagioclase changed to Chalcedonic quartz

Parallel Nicol

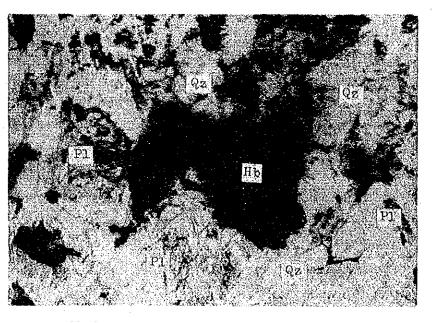
0.2 min

Basalt, (Sample No. AL002R) in Abuan River Formation (Rapid Cooling Facies) Locality; 30 Km SE San Mariano, East Side of Northern Sierra Madre Range Main mineral; Orthopyroxene, Clinopyroxene, Plagioclase (changed to Chalcedonic quart:



Cross Nicol

0.2 mm

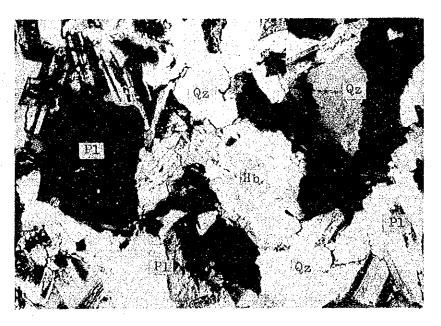


Hb; Hornblende Qz; Quartz Pl; Plagioclase

Parallel Nicol

0.5 mm

Tonalite, (Sample No. AM054R) in Siagot Diorite Locality; 38 Km ESE of Cauayan, East Side of Northern Sierra Madre Range Main Mineral; Hornblende, Quartz, Plagioclase

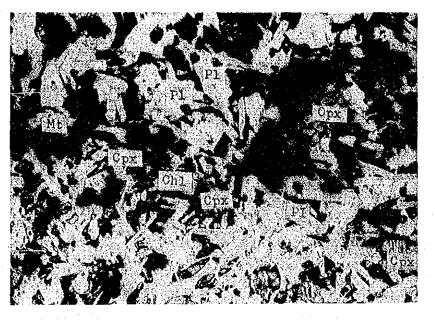


7

Cross Nicol

0.5 mm

Ilagan Area

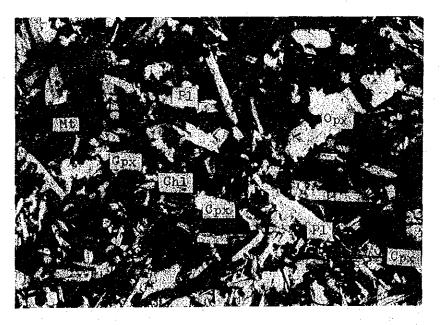


Parallel Nicol

0.5 mm

ι

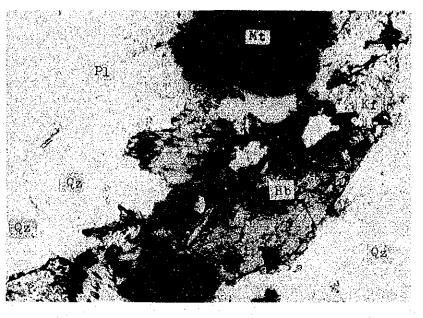
Dolerite, (Sample No. BB058) in Abuan River Formation Locality ; 7 Km SSE of Mt. Cresta Main mineral ;



Cross Nicol

0.5 mm

f

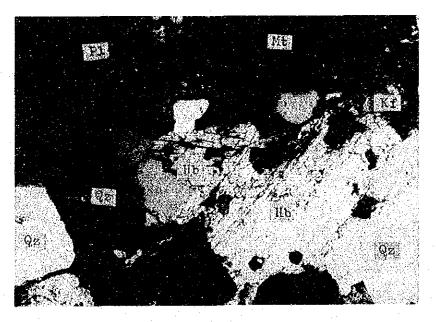


Mt; Magnetite Kf; Potash Feldspar Pl; Plagioclase Hb; Hornblende Qu; Quartz

ParaLlel Nicol

0.5 mm

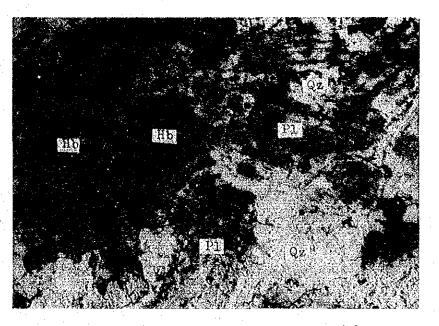
Granodiorite, (Sample No. BJ052) in Siagot Diorite Locality; 22 Km ESE Ilagan Main mineral; Magnetite, Potash Feldspar, Plagioclase, Hornblende, Quartz



Cross Nicol

0.5 mm

- 9 -



Hb; Hornblende Pl; Plagioclase Qu; Quartz

Parallel Nicol

0.5 mm

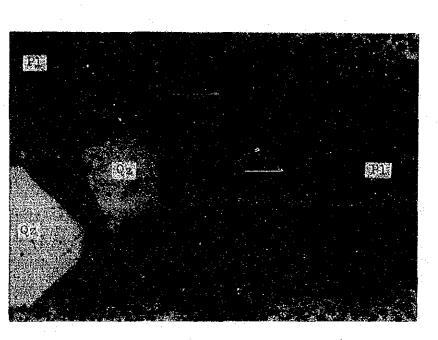
Quartz diorite, (Sample No. DH-057) in Siagot Diorite Locality ; 23 Km E of Tuguegarao Main mineral ; Hornblende, Plagioclase, Quartz



Cross Nicol

0.5 mm

Appendix 2 Microphotograph (Polished Section)



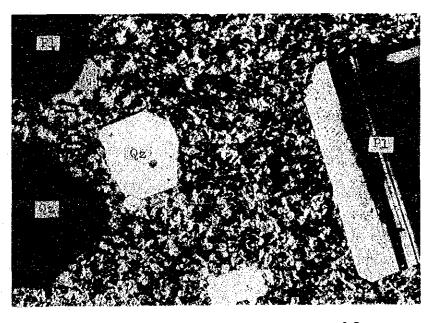
Pl ; Plagioclase Qu ; Quartz

Parallel Nicol

0.5 mm

ŧ

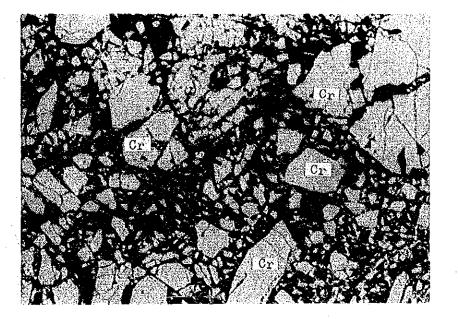
Dacite, (Sample No. DF-043) Dyke in Siagot Diorite Locality; 29 Km E of Tuguegarao Main mineral; Phenocryst; Plagioclase, Quartz Groundmass; Chlorite, Plagioclase, Quartz, Silica-mineral



Cross Nicol

0.5 mm

Palanan Area (Polished Section micro-photograph)

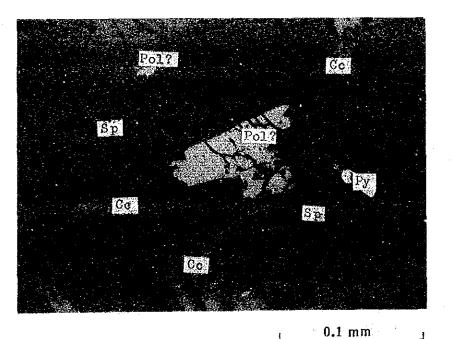


Sample of Caschrome Wasayan 2 (CA-60)

Chromite ore in Raddish brown Soil

Cr2O3 53.39% Cr; Chromite

0.2 mm



Sample of Dimakawal Mn Prospect (MD-4)

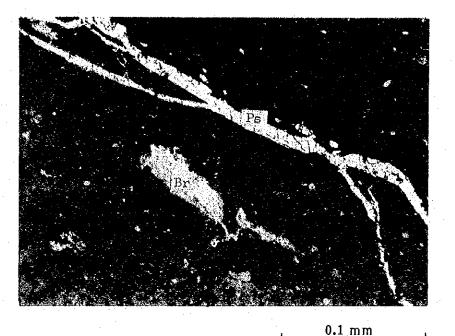
High copper zone Ore with Manganese mineral in Volcanic breccia

Au g/t Ag g/t Cu% Zn% 2.0 132.3 15.88 23.00

- Pol;
- Cc ; Chalcocite Sp ; Sphalerite Pol; Polybasite
- Py; Pyrite

-12-

Palanan Area (Polished Section Micro-photograph)

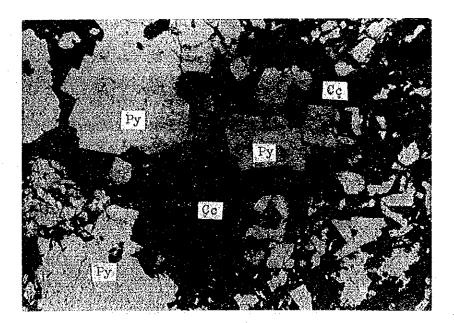


Sample of Dikadioan Mn Prospect (KR-16) Manganiferous chert

SiO₂% Mn% Fe% P% 83.7 1.24 5.29 0.05

CaO% 0.07

Ps ; Pyrolusite Br ; Braunite



Sample of Bicobian Copper prospect. (Bic-02)

Massive Sulphide boulder

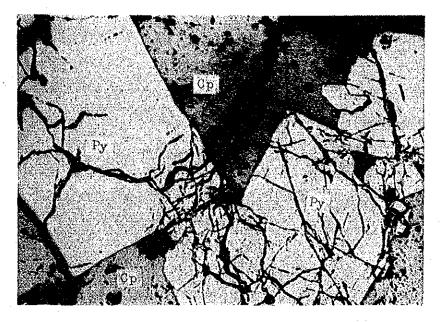
Au g/t Ag g/t Cu% Zn% 5.5 168.5 54.48 0.26

S% 26,14

Py; Pyrite Cc; Chalcocite

0.2 mm

Cauayan Area (Polished Section Micro-photograph)



Sample of Dina Creek I Copper Showing (Sample AK051R (Sta45))

Pyrite Disseminated zone in porphyritic andesite

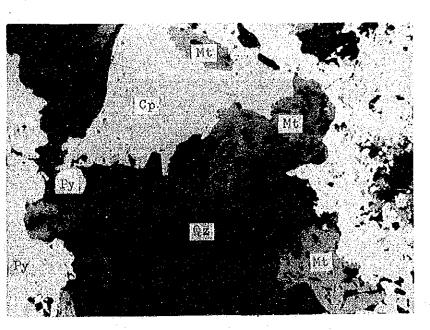
Accompanied Quartz diorite

Au g/t Ag g/t Cu% Pb% 0.07 3.3 0.64 <0.01

Zn% 0.01

Py; Pyrite Cp; Chalcopyrite

0.3 mm



0.1 mm

Sample of Dina Creek I Copper Showing (AK051R (amp 2))

Massive sulphide float

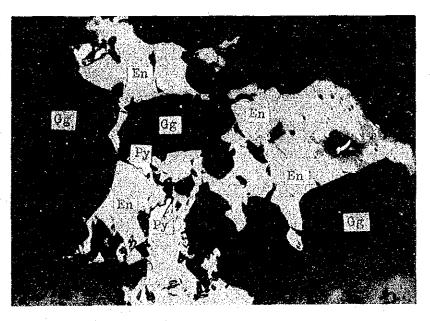
- Qz; Quartz Cp; Chalcopyrite Py; Pyrite Mt; Magnetite

Ilagan Area (Polished Section Micro-photograph)



.0.3 mm,

Tuguegarao Area



, 0.1 mm

Sample of Lupigue Copper Showing. (BA005b)

Pyrite dissemination in hornfels and silicious sandstone.

Cp; Chalcopyrite Py; Pyrite Mt; Magnetite

Sample of Casablangan Showing (DF039b)

Pyrite Dissemination in altered Dacite

Py ; Pyrite Gg ; Gangue mineral En ; Enargite

Appendix 3 Micro Fossil Correlation Table

Appendix 3 Microfossil Correlation Table

Identification Table of Radiolaria and Foraminifera Samples

		n .	M. 1 .	A	
in	Northern	Sierra	naare	area	

MMAJ Samples	in Northern Sierra Madre Are	a	
Sample no.	Radiolarians	Foraminifers	Remarks
CCR4	Barren	Barren	Chert
BIC5	Common/Poor	Barren	Chert
	Thanarla conica		the second s
	T. pulchra(?)		
	Holocryptocanium		
	geysersonsis		· · · · · · · · · · · · · · · · · · ·
·	Archaeodictyomitra vulgaris	•	
	Archaeodictyomitra sp.		
	(Age; Lower Cretaceous,		
	Valanginian to		
· · · ·	Aptian	•	
BD104	Barren	Rare/Poor	Siltstone
		Globoratalia sp.	
CF006R	Barren	Тгасе	·
		Bathysiphon sp.	
· DD014	Barren	Barren	Volc. sandst
CK62146A	Barren	Rare/Poor	Siliceous
			nodule
DJ 003	Barren	Barren	
CH117R	Barren	Barren	Limestone
QN26A	Barren	Barren	
AD130R	Barren	Rare/Poor	Silitst.
VS2	Barren	Barren	Limestone
KR15	Barren	Barren	Black silic.
	Dutton		shale
BL069	Barren	Barren	Ostrea sst.
BE054	Trace	Rare/Poor	Sandy siltst
	Conosphaera sp.	Globigerina sp	
BADOIC	Barren	Barren	Sands t.
AD076R	Barren	Barren	Sandy siltst
DK082	Barren	Barren	Calc. sst.
BC044	Barren	Barren	Congl.
AD096R	Barren	Barren	Sandy siltst
CA032R	Barren	Commen/Poor	Calc.
			sands tone
BK006	Barren	Barren	Siliceous
			sandstone
SF001	Barren	Barren	Volc.
			sandstone
AG046R	Barren	Barren	Sandy
		·	silitstone
CE007	Barren	Barren	Black
	:		siltstone
CM100	Barren	Barren	Sst. and
			limestone
AD114R	Barren	<u>Rare/Poor</u>	Siltstone
ÄF010R	Barren	Barren	· · ·
BH122	Barren	Barren	Calc. sst.
BK004	Barren	Common/Moderate	Siltst.
AL008R	Barren	Barren	Silty sst.
AL003R	Barren	Barren	Black
			sandst.
AGOOGR	Barren		
BJ 028	Barren	Barren	
		0 /D	
BH080	Barren	Kare/Poor	
	2	(Communication)	
AM025R	Barren	parren	Sanastone
BJ 028 BH 080		Barren Barren Rare/Poor Barren	sandst. Silty ss White limeston Siliceou siltston Sandston

After Dr. M. Okamura ; Faculity of Geology Kochi Univ. Japan

		Nor Jaya		1 Sie T	<u>rra</u> laga		e A	rea	Palanan Tuguega					
SAMPLE NUMBER	AD1	AD1	ALO	BD	BH	BJ	BK	BL	CK62		CHI	DJ	NQ	
SAUFLE WUNDER	14R	30R	03R		122	028		069		32R	17R		26A	
ABUNDANCE - PRESERVATION ETCHING / OVERGROWTH	A G 0/0	A G 0/0	R M 1/0	CG	C M 0/2	T P 0/3	C N 1/0	F M 0/1	FΡ	CM	T P 1/0	RG	F M 1/0	FF
Braarudosphaera bigelowii	- F													
Calcidiscus leptoporus	. –			. <u>C</u>	. **		 **	F	-	-, -	-	-
C. macintyrei	T -	R	~	F	~			-	-	F	-	*	-	-
Chiasmolithus cf. altus Coccolithus miopelagicus	F	F	-		-	-	· _	-	-	-	-	-	F	-
C. pelagicus	Å	ç	-	F	С	-	F	С	+	F	-	+	C	-
Coronocyclus nitscens	R C	Ŕ	· ;=		Ē			 F	- +	- .	~ .	-	F	
Cyclicargolithus abisectus C. floridanus	Ă	Ā	-	-	Å	. –	-	r A	+	-	- +	_	A	- -
Dictyococcites bisectus	-	-	-		 :		-		+	-	÷	°. -	·	-
D, productus		-	+	-		. .	C	-	-	-		+		_
Dictyococcites sp.	-		∽.	-	- .	-	-	-	-	-	·	-	F	+
Discoaster adamanteus D. berggrenii	F	R	-	F	_	-	F	-	<u> </u>	Ē.			r 	-
D. berggrenii D. brouweri	-	-	-	-			-	-	**	F	-	-	-	-
D. deflandrei	A	A	-		F	+				-			F	
D. intercalaris	-	-	2	R		-	-	-	-	F	-	-	-	-
D. pentaradiatus D. quinqueramus		-	+	F	-		Ċ	_	_	ċ		_	_	
D. surculus	·- ,	-	-	R	-				-	-	-	· - 	-	**
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). variabilis			+	c		-	· F	. –	-	F	-	-	-	-
lelicosphaera carteri lelicosphaera euphratis	ĉ	ĉ	- .	с –	Ē	+	<u> </u>	-	_	A F	-	+		-
H. perch-nielsenae	-	Ř	-	- .	-	-		F	-	•	-	F	-	-
H. trumpeyi	R	-			-	-	_	-	-	_	-			_
H. wilcoxonii	R	-	. –	-	-	-		· 	-	7	-		F	-
Lophodolithus sp. Pontospheera japonica	_		-	F	-	-	-	-	_	_	_	-	-	_
P. multipora	. <u>-</u>	-	-	F	_	-	F		F	:			<.	-
o. pectinata		R	-		-		-	-	-	-	-	-	-	-
Reticulofenestra gelida	c	c -	-		c	-	F			-	-	÷	-	
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R. ginute		-	+		_		C		-	-	-	+	-	-
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?. pseudoumbilica		-	-	-	_	-		-	- '		-	+	-	-
Reticulofenestra sp.	-	• -	-	·	-	-		-	-	·	+	· _	-	+
Sphenolithus abies			4	. jA	-	-	A	-	-	. =	 . 1	+	-	
S. ciperoensis	R				F			F					F :	+
conicus	-	R	-	-	·F		-		-	•	-	.	-	~
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5. dissimilis 5. distentus		-	-	-		+	_	F	-				F	+
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S. predistentus S. verensis	-	-	-	ċ	-	-	- Ĉ	·	ĉ	-		-		-
Thoracosphaera Spp.		-	-	č	- -	-	F	-	~	-	-	-		
riquetrorhabdulus carinatus		F				-				-	~ .			
T. milowii		F	-	-	-		~	-	-	-	-		-	
NANNOZONE CP CN	19b	16	9	9	19	18–19	.9	19a	18-19	9	13 5a	7-11	19a	19a

Identification Table of Nanno-Flankton Samples

After Dr. H. Ckada ; Geo-Science Division Yamagata Univ. Japan.

Appendix 4 Time Determination Data of K-Ar Method

Appendix 4 Time determination Data of K-Ar method

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TELEDYNE ISOTOPES

POTASSIUM - ARGON LABORATORY

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Submitted by Teledyne Japan K.K. for Overseas Mineral Nihonseimei Akasaka Bidg. B-1-19,Akasaka, Minato-ku T.I. T. Nour Sample # T.I. T.I. T. Nour Sample # T.I. T.I. T.I. T.I. T. Nour Sample # T.I. T.I. T. Nour Sample # T.I. T.I. T. Nour Material T.I. T.I. T.I. T.I. T. Nour Sterra Madri I. Morthern Sierra Madri I. Mol Solopic Sample # T.I. T.I. T. Nour Material Mol Rock T.I. T.I. T.I. T. Nour Material Mol Rock T.I. T.I. T. Morthern Sierra Madri I.I. T. Morthern Sierra Madri I.I. T.I. T. Morthern Sierra Madri I.I. T.I. T. Morthern Sierra Madri I.I. Sample # Analyzed T.I. T.I. T. Nour Material Mole Rock T.I. T.I. T.I. T.I. T.I. T.I. T. Mole Rock T.G. T.I. T.I. T.I. T. Mole Rock T.G. T.I. T. Mole Rock T.G. T.I. T. Mole Rock T.G. T. T. Mole Rock T.G. T. Mole Rock T.G. T. Mole Rock T.G. T. Mole Rock T.G. T. T. Mole Rock T. T. Mole Rock T. T. T	Your P. O. # 062-1214 Date - 3	30 Septmber 1986	Page 1	of 2	
Mr. Y. Chyama Your Sample # AKOS 1R Cauayan Wh AMO54R " Wh AMO54R " Wh BEOO6 Ilagan Wh BJO52C " Wh CAO21 Palanan Wh CAO21 Palanan Wh DFO24 Tuguegarao Wh	for Overseas Mineral Resourses Development Co.,Ltd.		· · ·		
Your Sample # And Sample # AKO51R Cauayan Wh AMO54R " Wh BEOO6 Ilagan Wh BJ052C " Wh CA021 Palanan Wh CA021 Palanan Wh DF024 Tuguegarao Wh DH057 Tuguegarao Who	Results of K-Ar Age Determination			-	•
YourMaterialSample #AnalyzedAK051RCauayanMO54R"MO54R"MO54R"MO54R"MO54R"MO54R"MO54R"MO54R"MO54R"MO54R"Mole RockBJ052C"Nhole RockCA021PalananWhole RockCJ005"DF024TuguegaraoDH057TuguegaraoDH057Tuguegarao	in Northern Sierra Madre Area				
AK051RCauayanWhole Rock28.4AM054R"Whole Rock31.1AM054R"Whole Rock24.3BE006IlaganWhole Rock24.3BJ052C"Whole Rock23.2CA021PalananWhole Rock23.2CA021PalananWhole Rock23.2CJ005"Whole Rock23.4DF024TuguegaraoWhole Rock24.4DH057TuguegaraoWhole Rock22.3	Isotopic Age (Ma)	⁴⁰ Ar * (scc/gm × 10- ⁵)	% 40Ar *	* ×	Notes
AKO51RCauayanWhole Rock28.4AMC54R"Whole Rock31.1BE006IlaganWhole Rock24.3BJ052C"Whole Rock23.2BJ052C"Whole Rock23.2CA021PalananWhole Rock23.2CJ005"Whole Rock23.2DF024TuguegaraoWhole Rock24.4DH057TuguegaraoWhole Rock23.3				1	
AMO54R"Whole Rock31.1BE006IlaganWhole Rock24.3BJ052C"Whole Rock23.2BJ052C"Whole Rock23.2CA021PalananWhole Rock23.2CJ005"Whole Rock23.4CJ005"Whole Rock23.2CJ005"Whole Rock23.2DF024TuguegaraoWhole Rock24.4DH057TuguegaraoWhole Rock22.3			•		
AMO5 4F"Whole Rock3 1.1BE 006IlaganWhole Rock2 4.3BJ05 2C"Whole Rock2 9.6CA02 1PalananWhole Rock2 3.2CJ005"Whole Rock2 3.4CJ005"Whole Rock2 5.4CJ005"Whole Rock2 4.4DF024TuguegaraoWhole Rock2 4.4DH057TuguegaraoWhole Rock2 2.3		.010	ດ ເ ເ ເ ເ	8 C C	
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BJO52C " Whole Rock 29.8 CA021 Palanan Whole Rock 23.2 CJO05 " Whole Rock 26.4 DF024 Tuguegarao Whole Rock 24.4 DH057 Tuguegarao Whole Rock 22.3		.020	28.0	.21	
BJ052C " Whole Rock 29.8 CA021 Palanan Whole Rock 23.2 CJ005 " Whole Rock 25.4 DF024 Tuguegarao Whole Rock 24.4 DH057 Tuguegarao Whole Rock 22.3		.020	31.6	.21	
CA021 Palanan Whole Rock 23.2 CJ005 " Whole Rock 26.4 DF024 Tuguegarao Whole Rock 24.4 DH057 Tuguegarao Whole Rock 22.3		· · · ·			
CA021 Palanan Whole Rock 23.2 CJ005 " Whole Rock 26.4 DF024 Tuguegarao Whole Rock 24.4 DH057 Tuguegarao Whole Rock 22.3		.022	25.5	.18	
CA021 Palanan Whole Rock 23.2 CJ005 " Whole Rock 26.4 DF024 Tuguegarao Whole Rock 24.4 DH057 Tuguegarao Whole Rock 22.3	1	.020	26.6	8.	
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DH057 Tuguegarao Whole Rock 22.3					
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DH057 Tuguegarao Whole Rock 22.3		.063	53.3	.67	
		.101.	66,9	1.19	
		.107	69.3	0.5	•

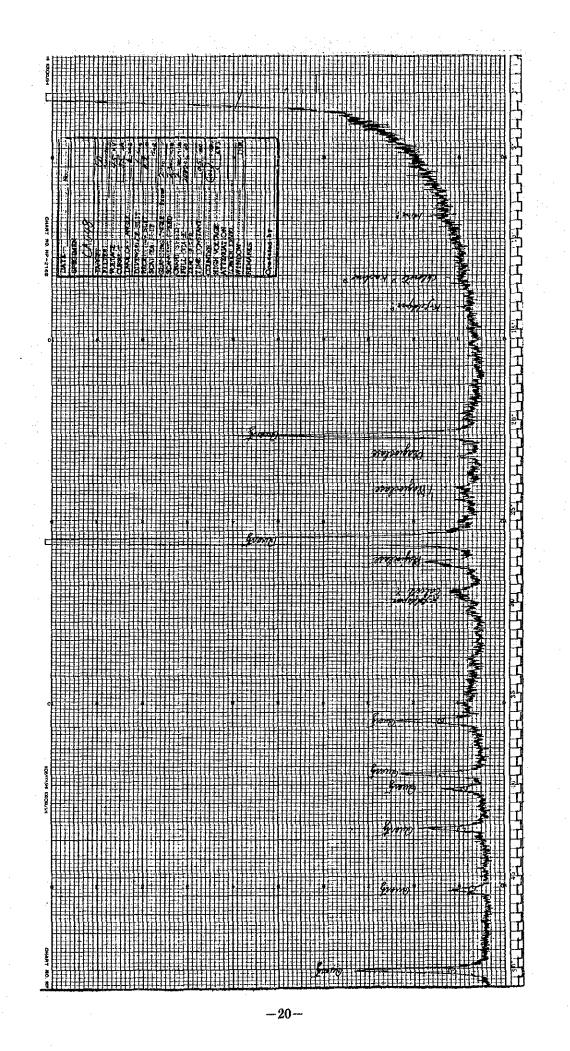
Appendix 5 X-Ray Diffraction Chert

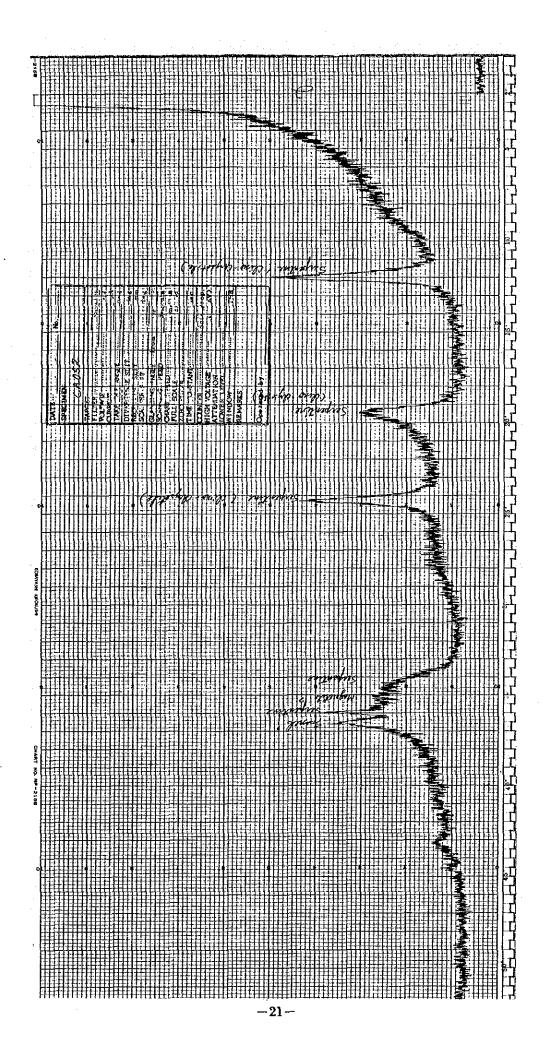
Diffraction Study	
Table of X-Ray	
Area Result '	
Palanan A	

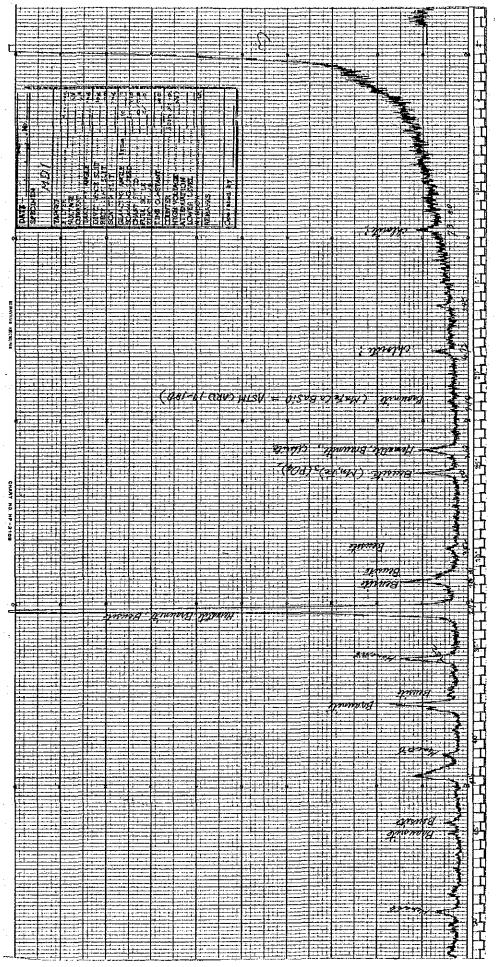
Sample		1 CA048	2 CA052	3 MD1	4 MD5	5 MD6	6 MD12	7 KR5	8 KR12	9 KR14	10 CJ2
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Zeolite Group			· · ·	· · ·							:
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Sulphate Mineral							<u>`</u>				
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<u>م</u> .	Jarosite	· · · .									
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Carbonate Mineral			·								
Чt											
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Silicate Mineral	Hornbiende							<u>е</u>			
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Others	Hematite			4	~						ļ
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Comparable Amount 4; Abundant 3; Medium 2; Small 1; Rare ?; Doubtful

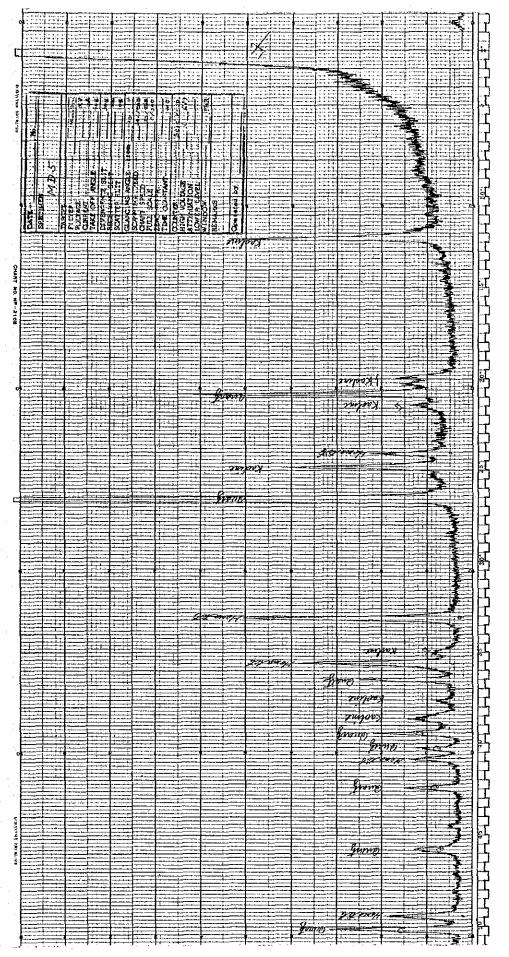
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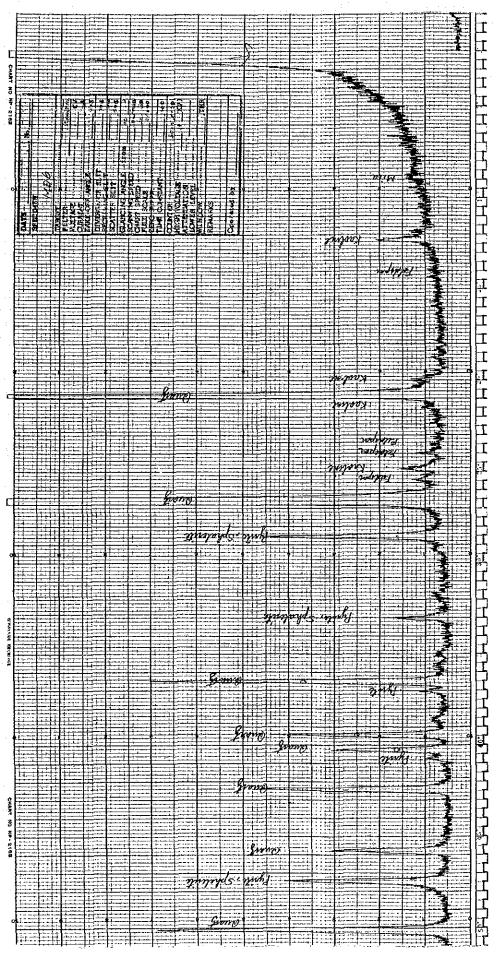




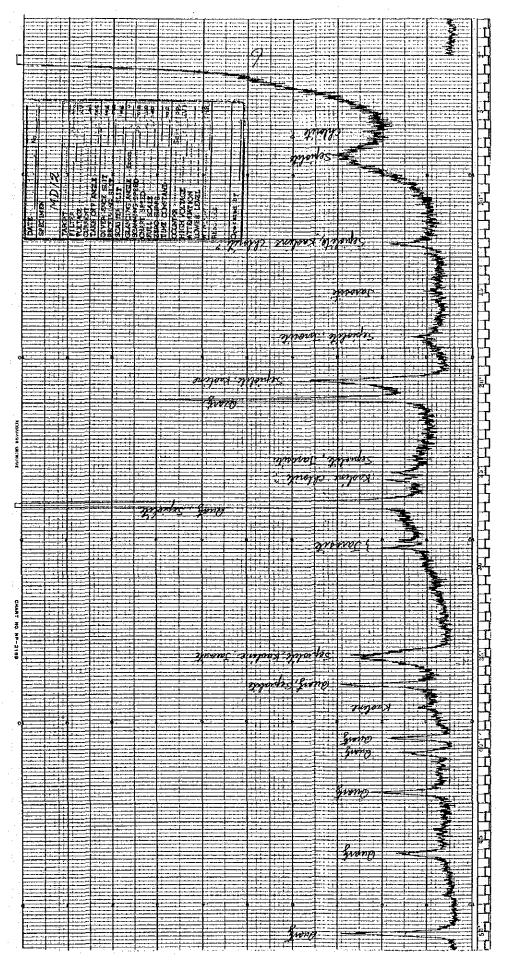
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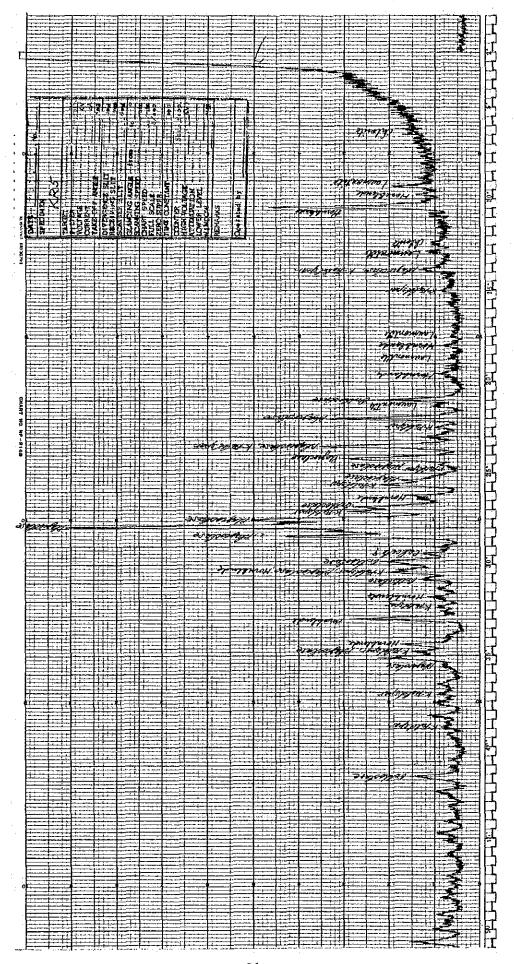
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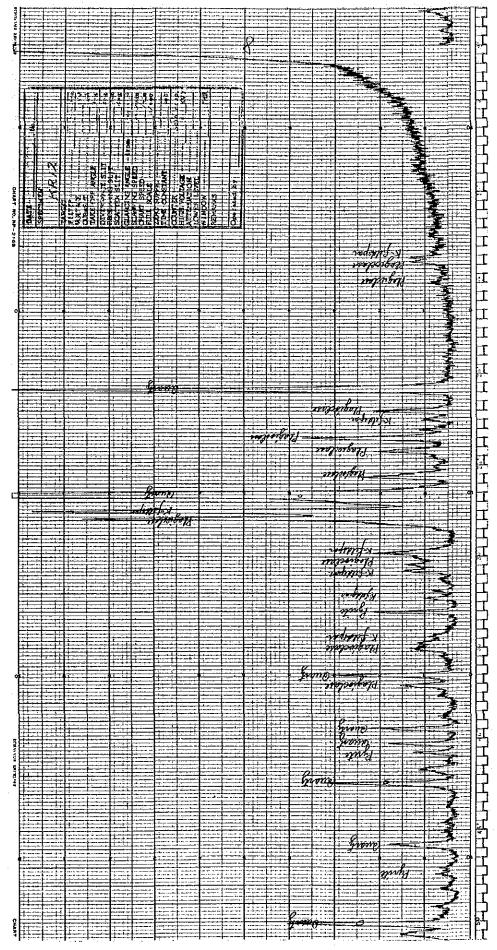
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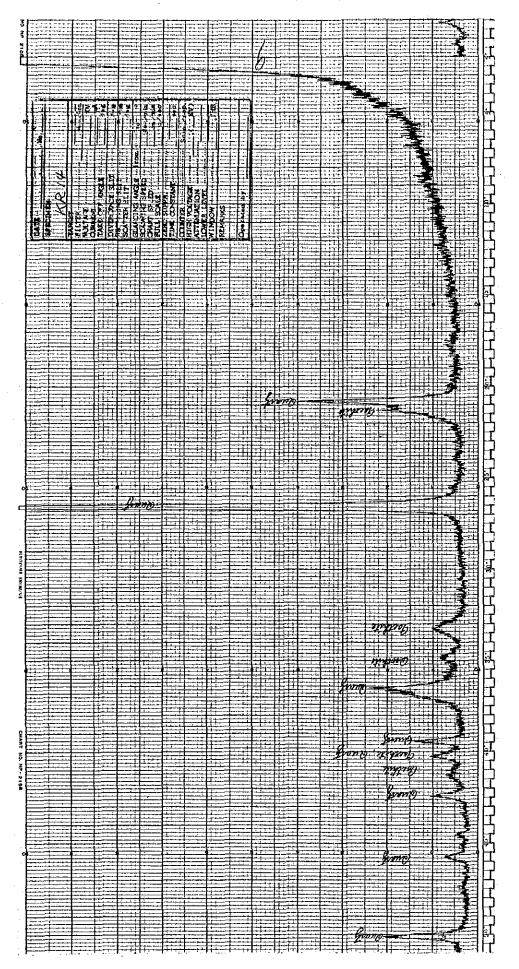
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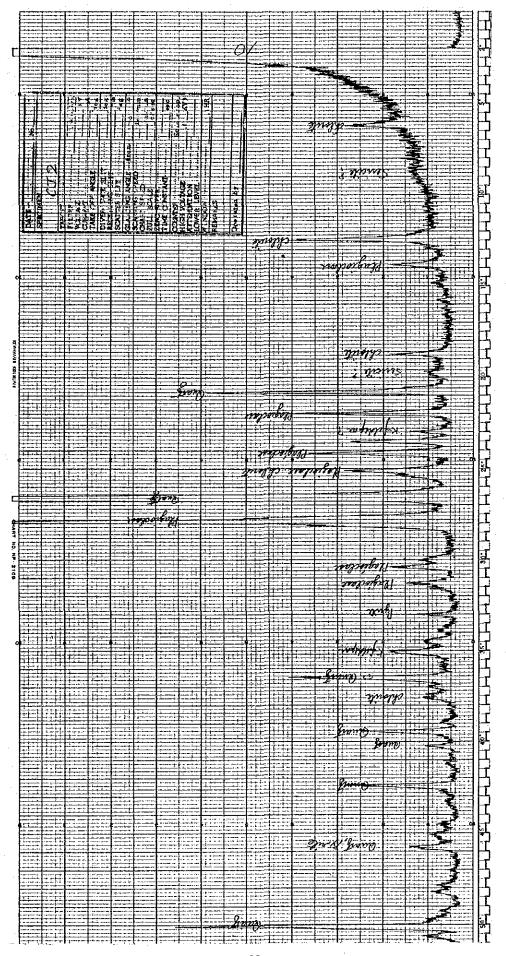
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Ch : Chlorite S	Se ; Sericite	Qu; Quartz
Sr.	P1 ; Plagioclase	Ho ; Hornblend
Ca ; Calcite P	Py; Pyrite	Mt; Magnetite
Comparable Amount; 4; Abundant	; 4; Abundant	1; Rare
	?; Doubtful	•••

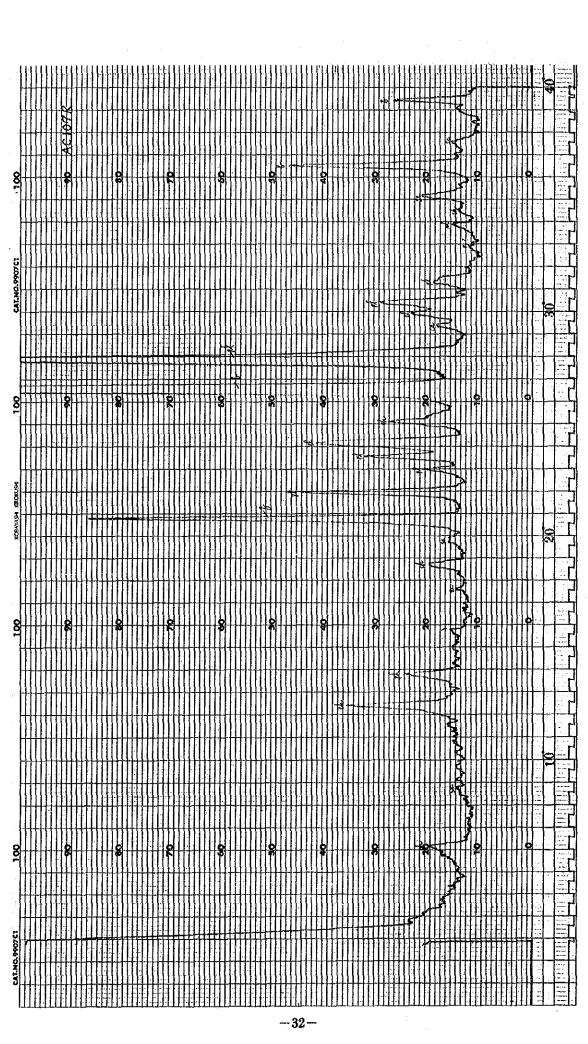
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Cauayan Area Result Table of X-Ray Diffraction Study

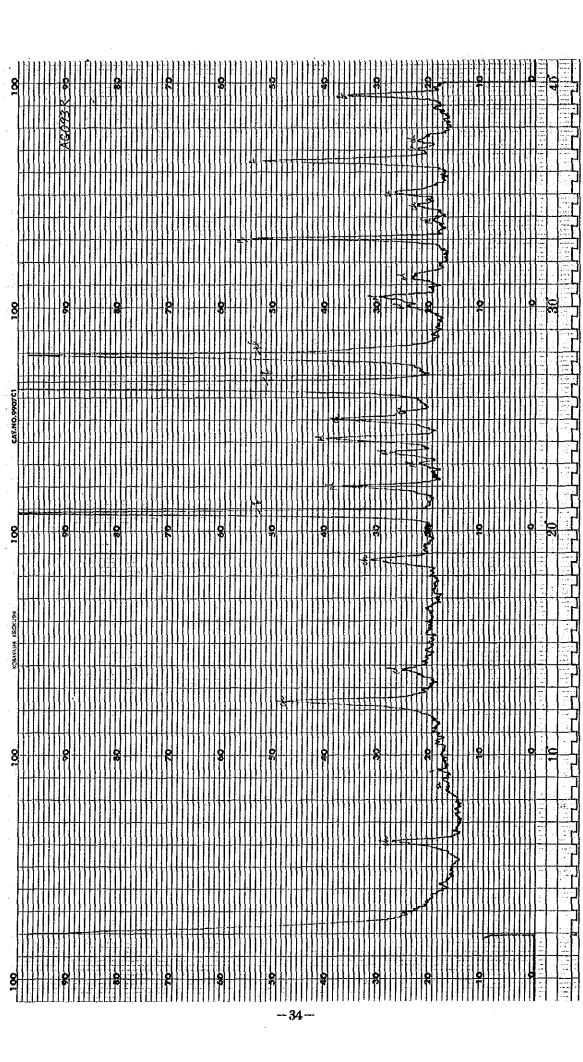
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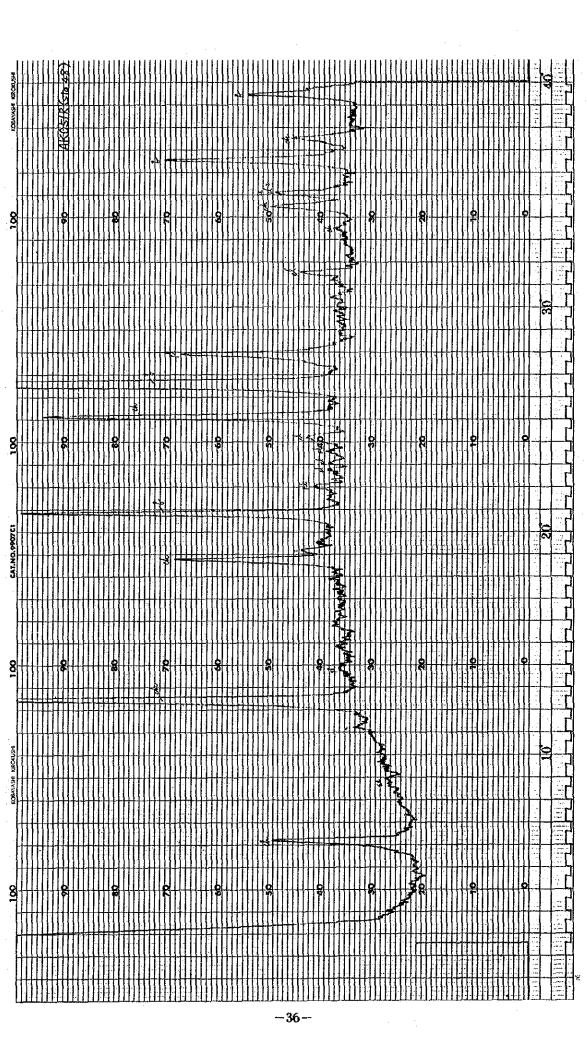
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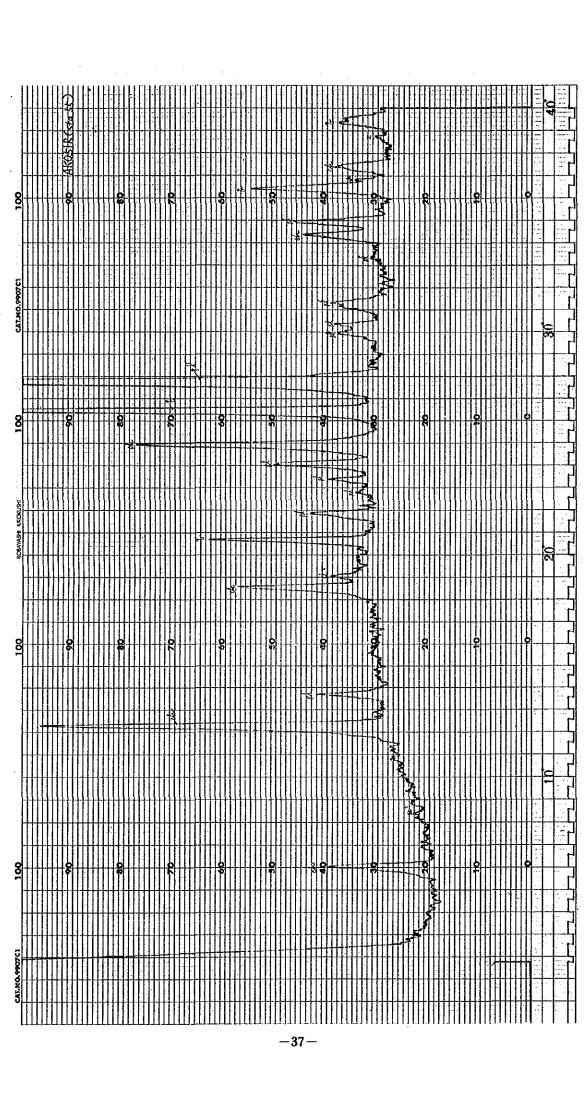


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