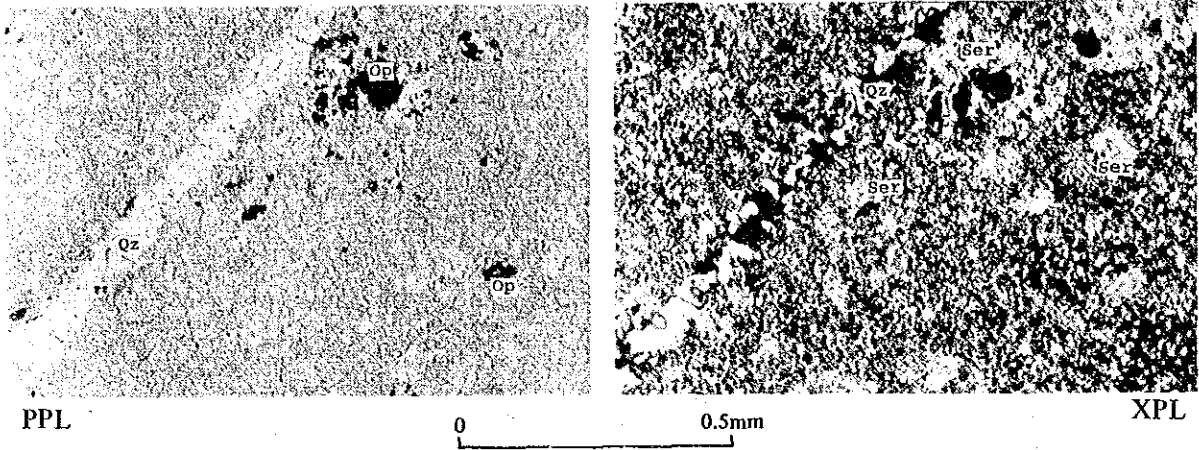
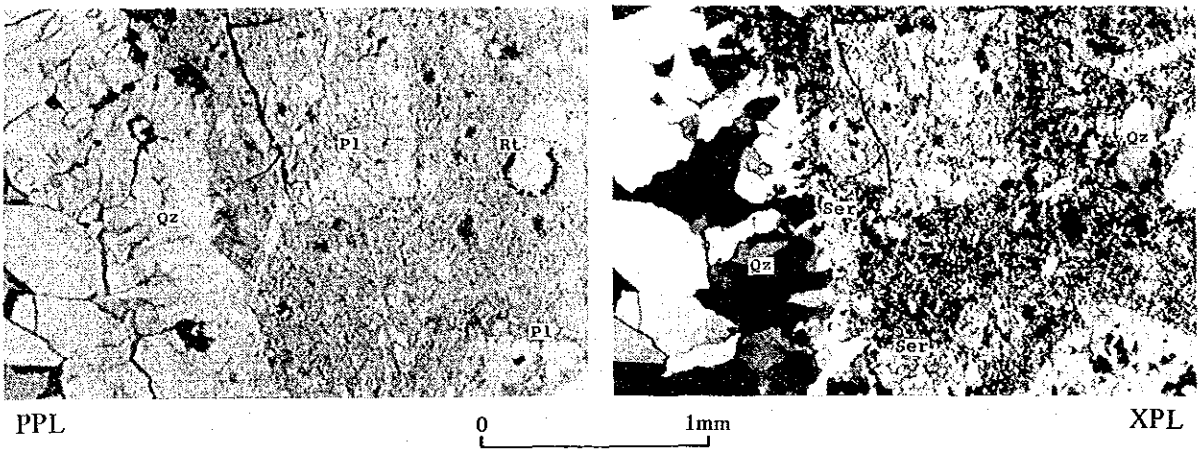


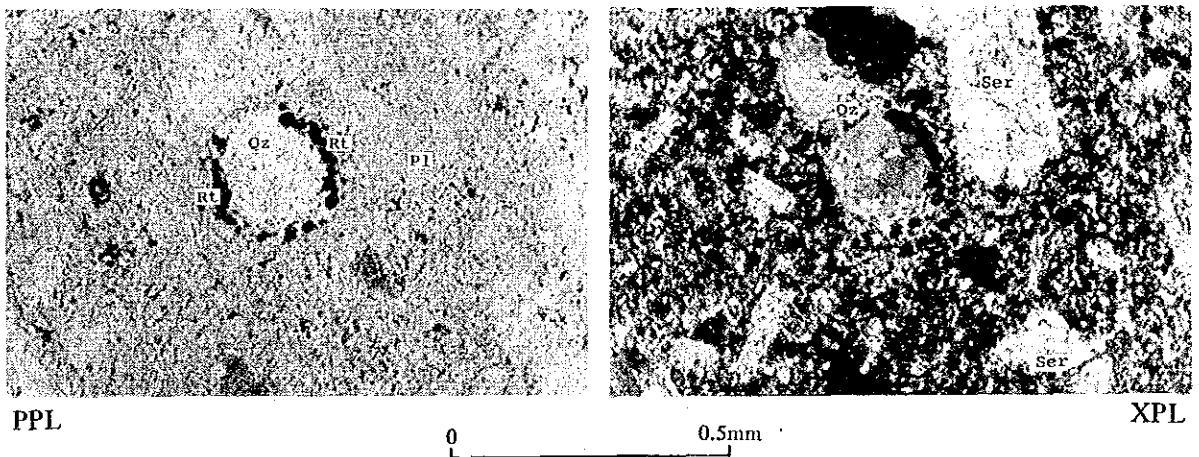
Sample No. T1301, Silicified Breccia



Sample No. J2701, Dacitic tuff



Sample No. J2701, Enlarged above Quartz Phenocyst



Apx. 3 Results of Fluid Inclusion Homogenization Temperature Analysis

Apx. 3 Results of Fluid Inclusion Homogenization
Temperature Analysis

Sample No	Host Mineral	N. M.	Temperature (°C)			Assay Grade (g/t)	
			Min	Max	Mean	Au	Ag
H0802	Q	3	115	197	145	2.81	4.5
H1101	Q	11	105	185	149	2.33	1.4
H1103	Q	12	85	145	109	4.11	17.1
J1702	Q	13	110	248	197	3.84	16.9
J1703	Q	2	121	131	126	1.30	5.7
J1801	Q	13	81	181	134	5.14	29.9
J1805	Q	7	100	237	160	1.30	33.0
J2204	Q	18	105	176	126	0.68	6.7
J2403	Q	1	92	92	92	<0.07	6.0
J2404	Q	7	101	109	105	0.27	3.6
J2701	Q	14	220	323	274	0.07	4.7
J2703	Q	12	88	128	103	0.75	9.1

Q: Quartz, N. M. : Number of Measured Fluid Inclusions

Apx. 4 Results of X-ray Diffractive Analysis

Apx. 4 Results of X-ray Diffractive Analysis

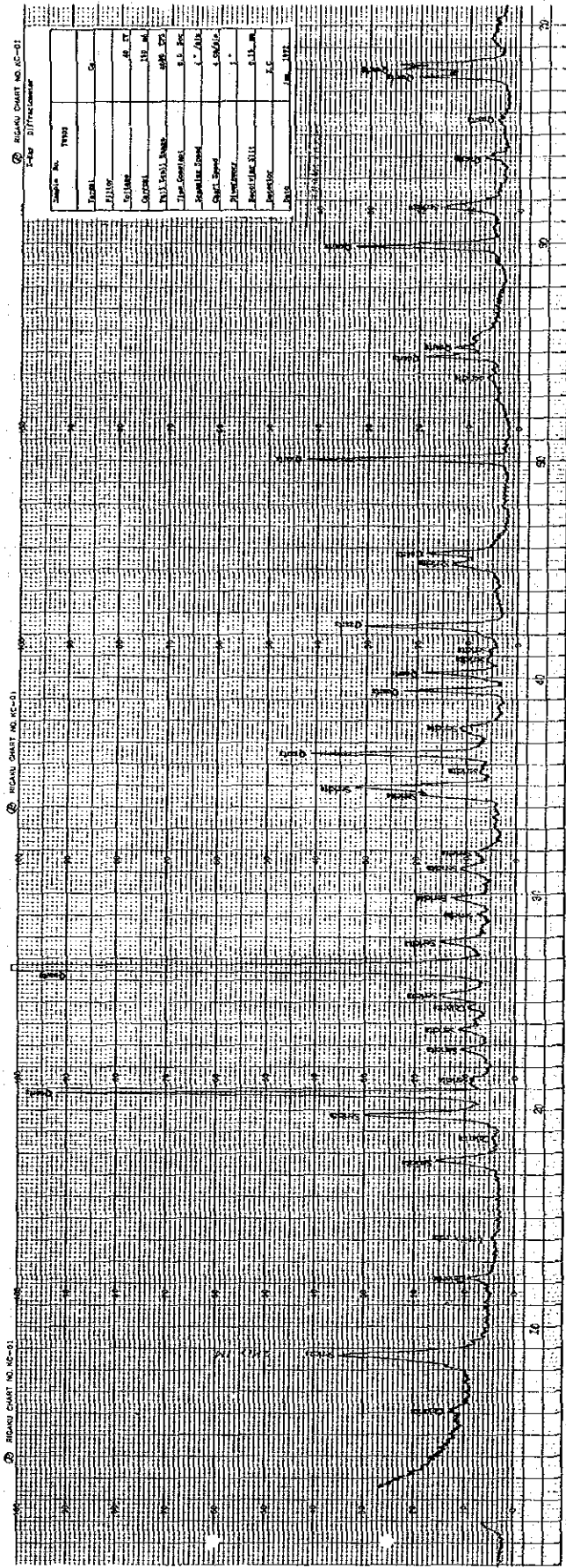
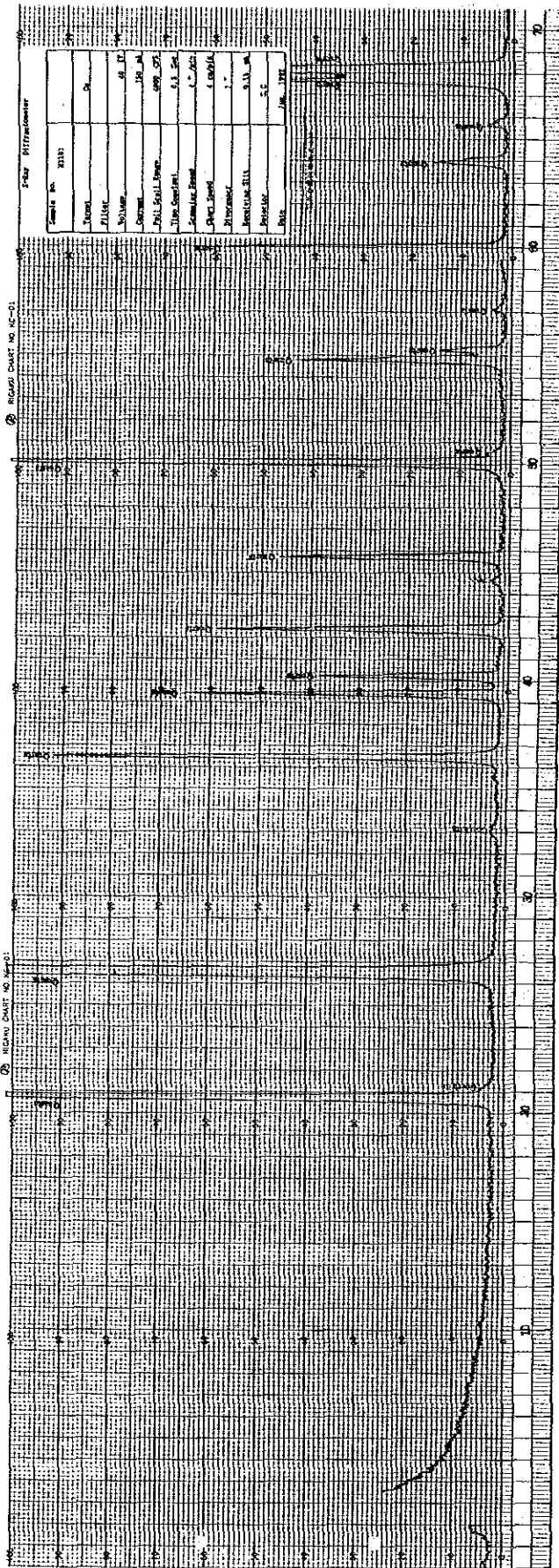
Sample No.	Location	Rock Name	Silicates							Sulfate			Oxides, Hydroxide			Remarks	
			Quartz	Laumontite	Kaolinite	Sericite	Chlorite	Clay Minerals	Plagioclase	Halotrichite	Gypsum	Calcite	Hematite	Goethite	Leptidochrochite		Anatase, Rutile
H1101	Chontali	Quartz V	⊙														
T0903	"	sil lp tf	⊙			△											2M1 > 1M
T1203	"	arg sil tf	⊙			○											2M1
T1204	"	Hb lp tf weak chl	○			△											?
T1205	"	sil-arg lp tf Clay V	○			△											
T1301	"	bre-sil	⊙			△											2M1
T1302	"	sil arg lp tf	⊙			○											2M1
T1304	"	sil arg tf	⊙			△											2M1 > 1M
T1601	"	Gypsum	⊙														
J1702	"	Quartz V	⊙														
J1703	"	"	⊙														
J1801	"	"	⊙														
J2403	"	"	⊙														
J2701	"	sil Quartz V	⊙			△											?
J2703	"	Quartz V	⊙														

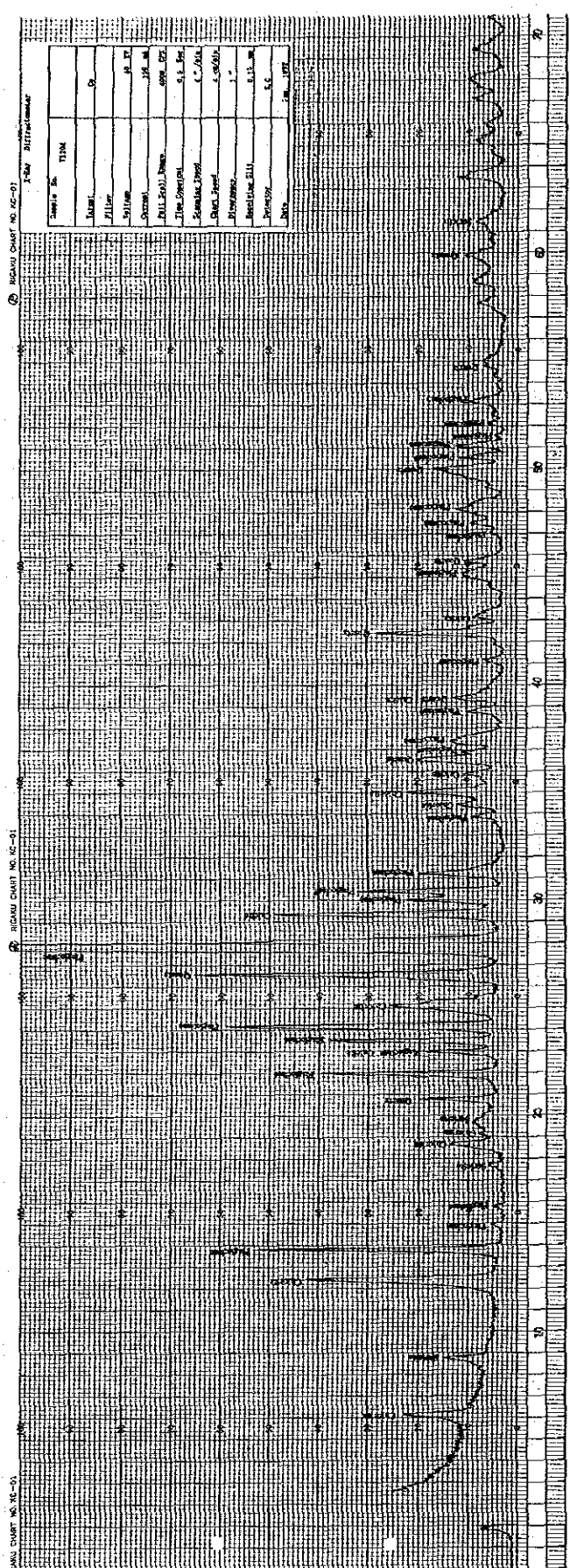
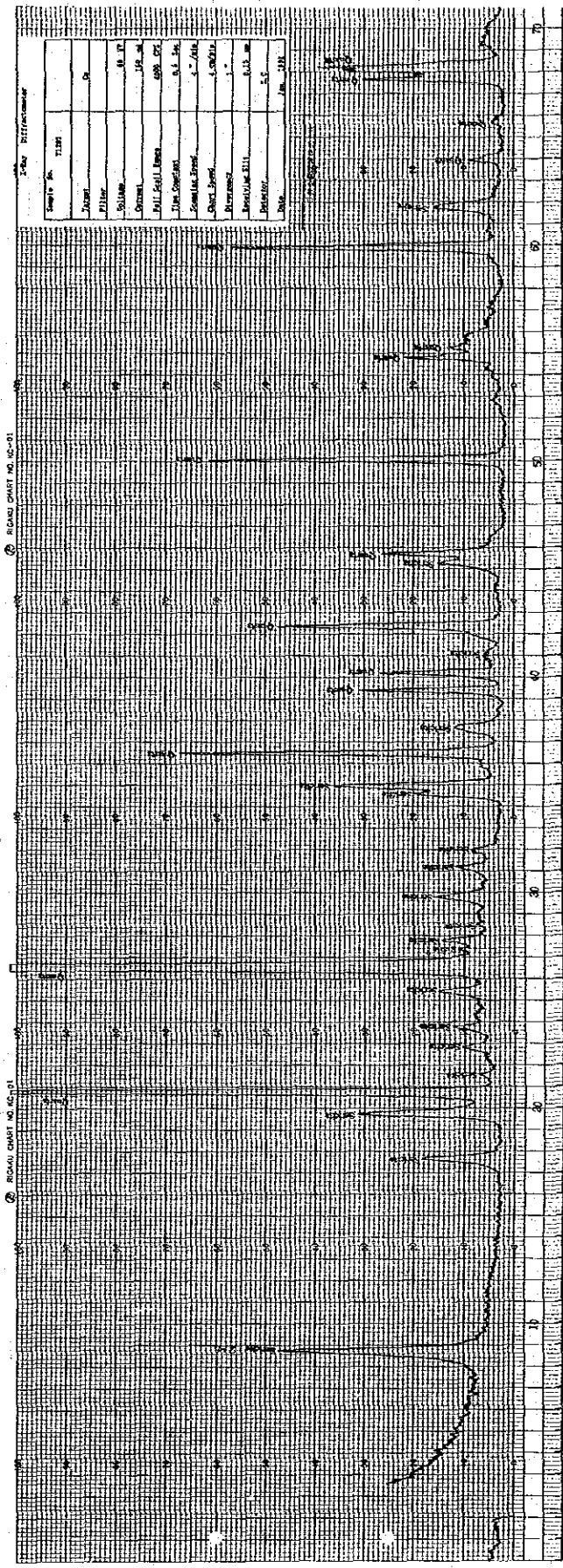
⊙:many ○:intermediate △:few ·:rare

※:Carbonate

Abbreviations arg:argillized, bre:brecciated, chl:chloritized, Hb:Hornblende, lp:lapilli, sil:silicified, tf:tuff, V:Vein

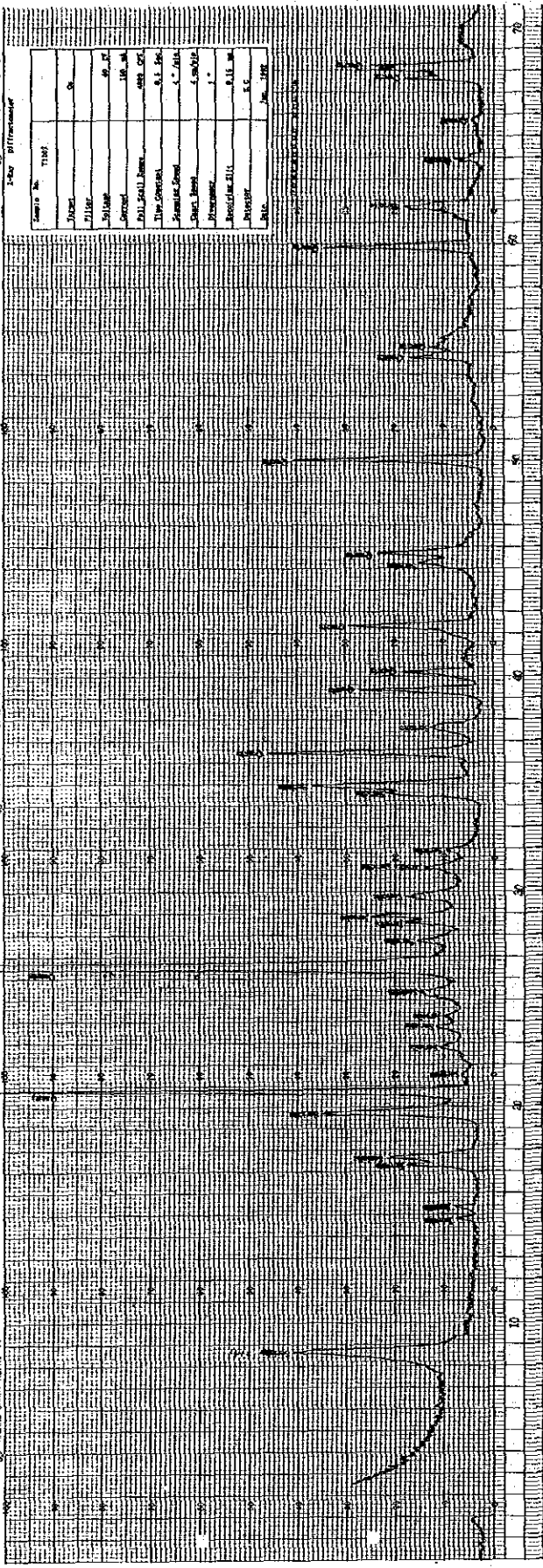
Apx. 5 X-ray Diffraction Chart





RICARDI CHART NO. RC-51
1-240 Differential

NAME	TIME
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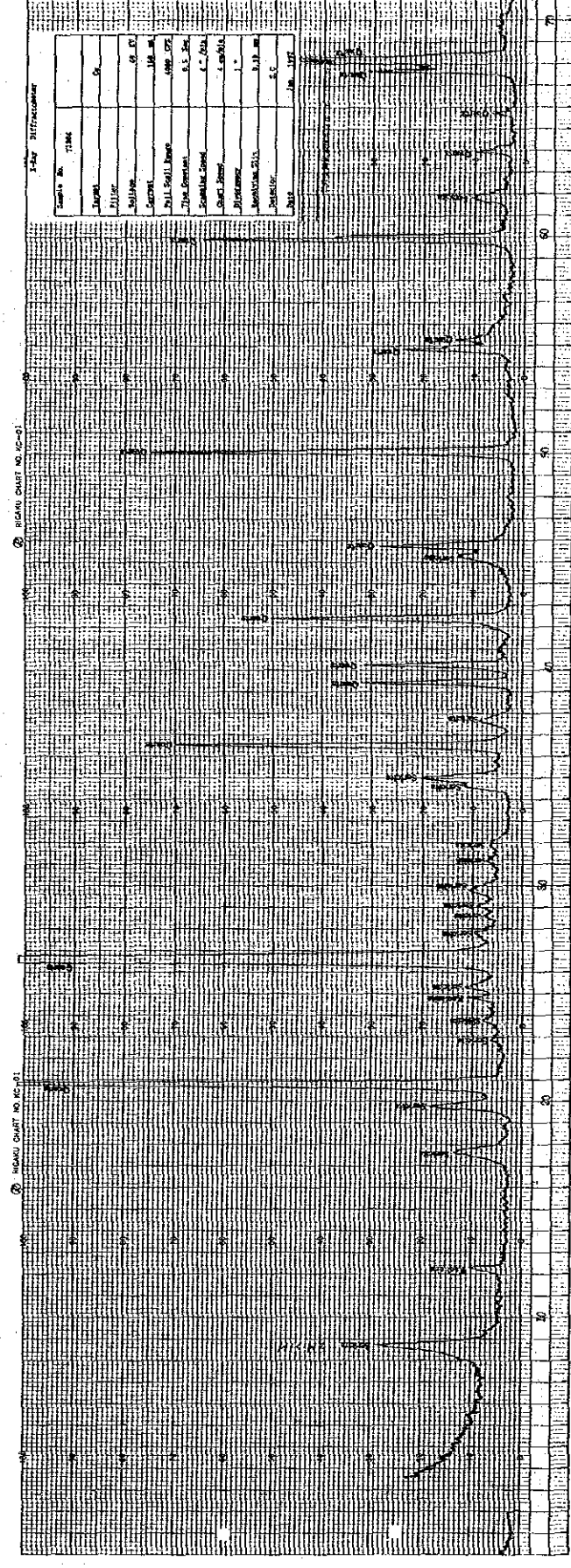


RICARDI CHART NO. RC-51

RICARDI CHART NO. RC-51

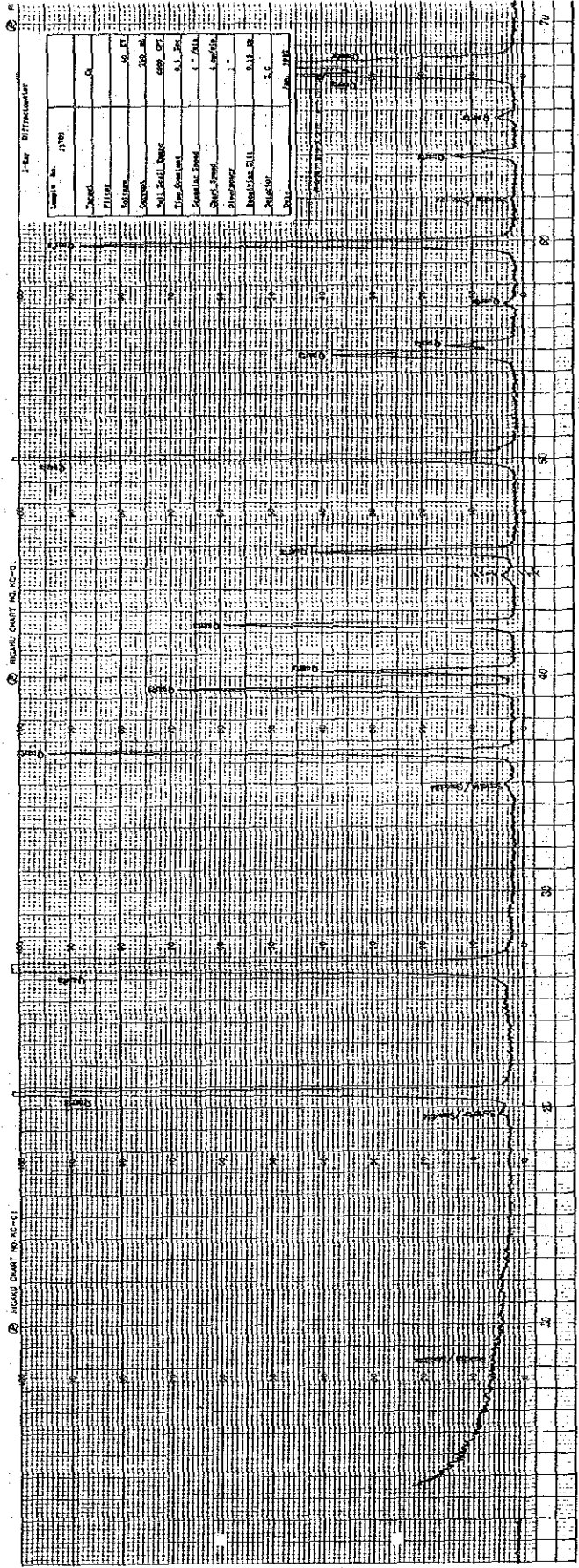
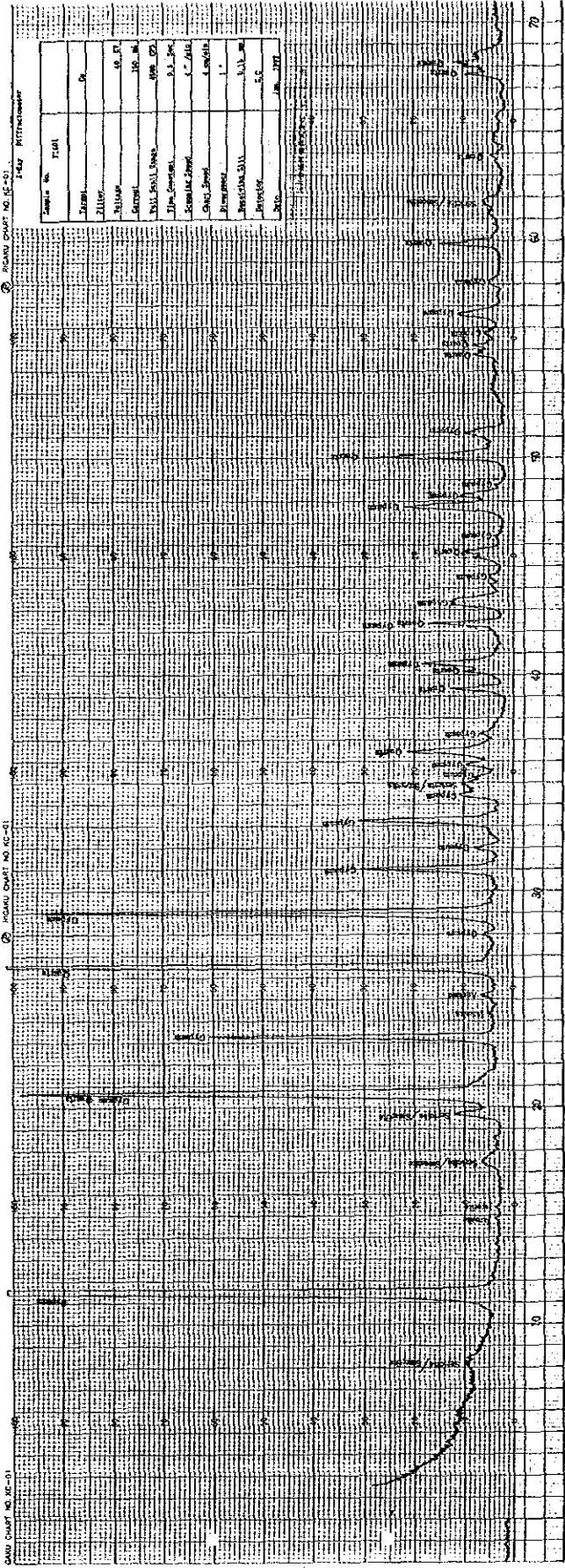
RICARDI CHART NO. RC-52
1-240 Differential

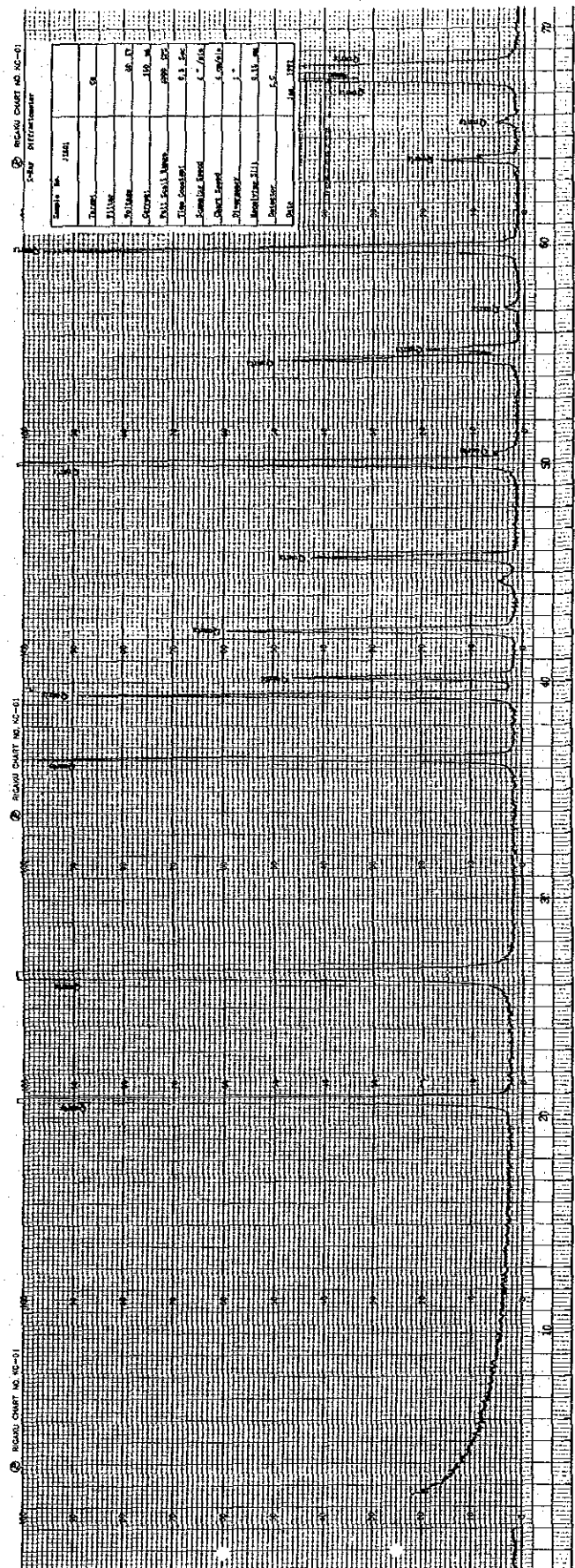
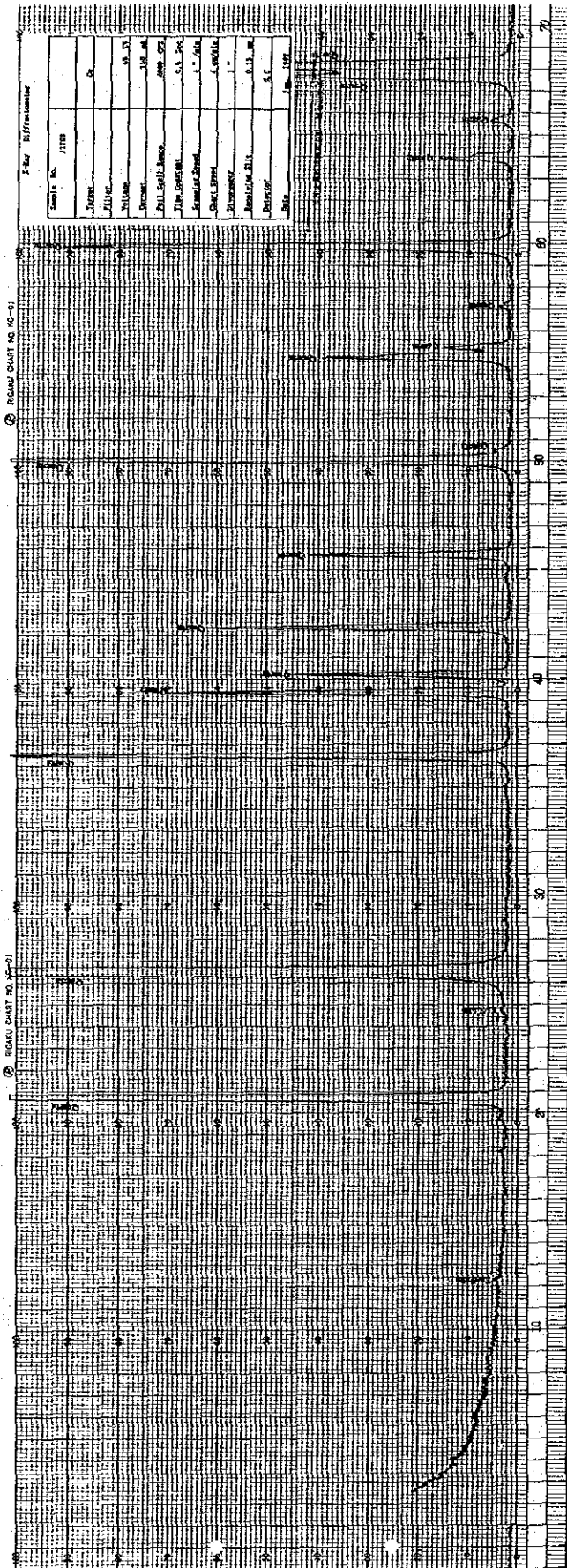
NAME	TIME
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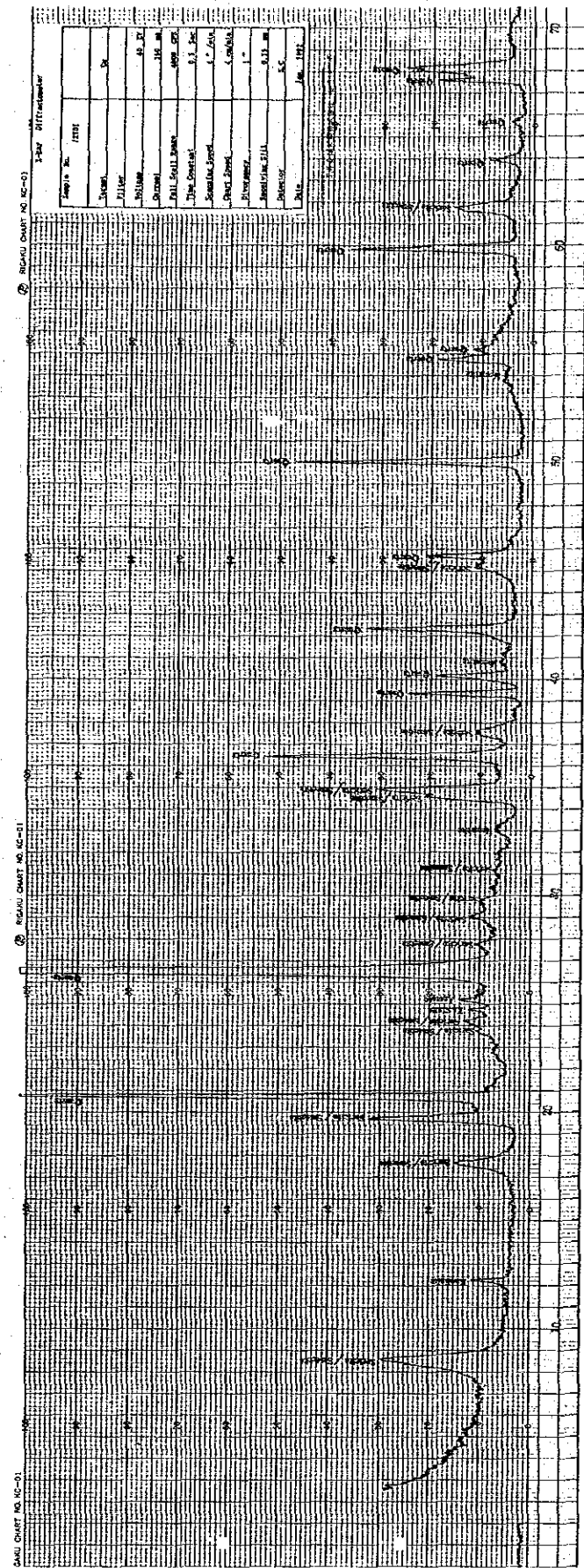
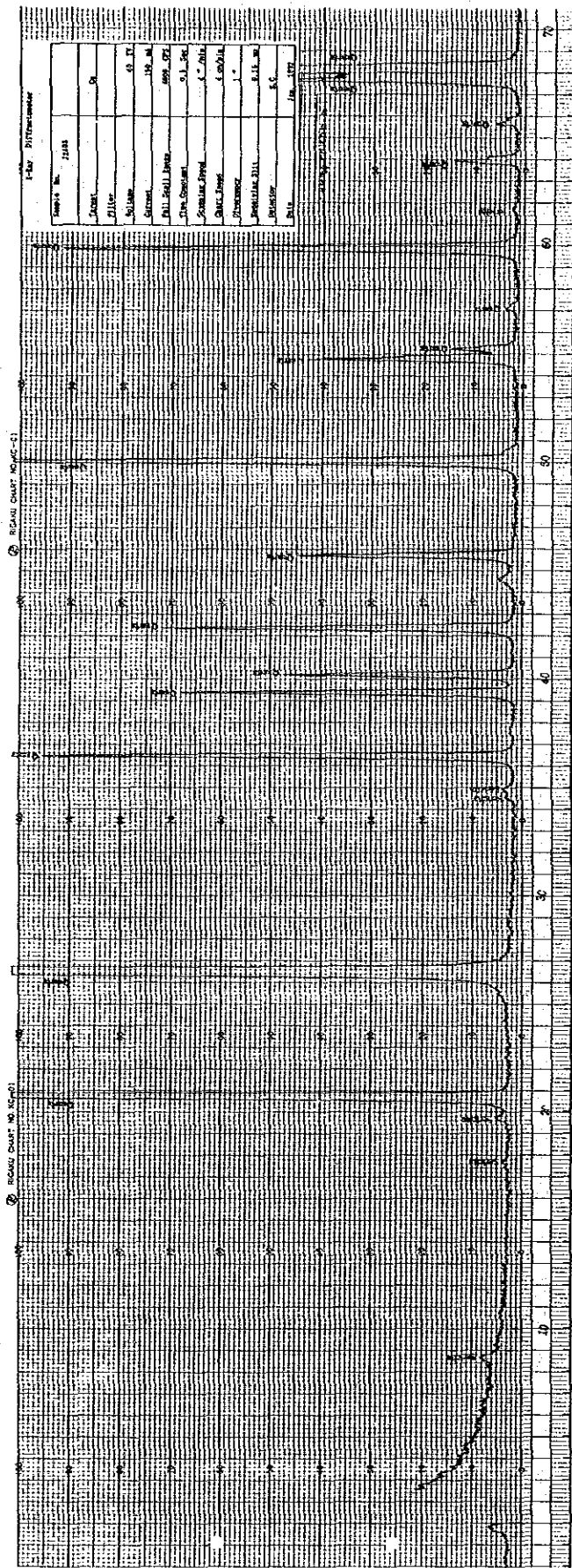


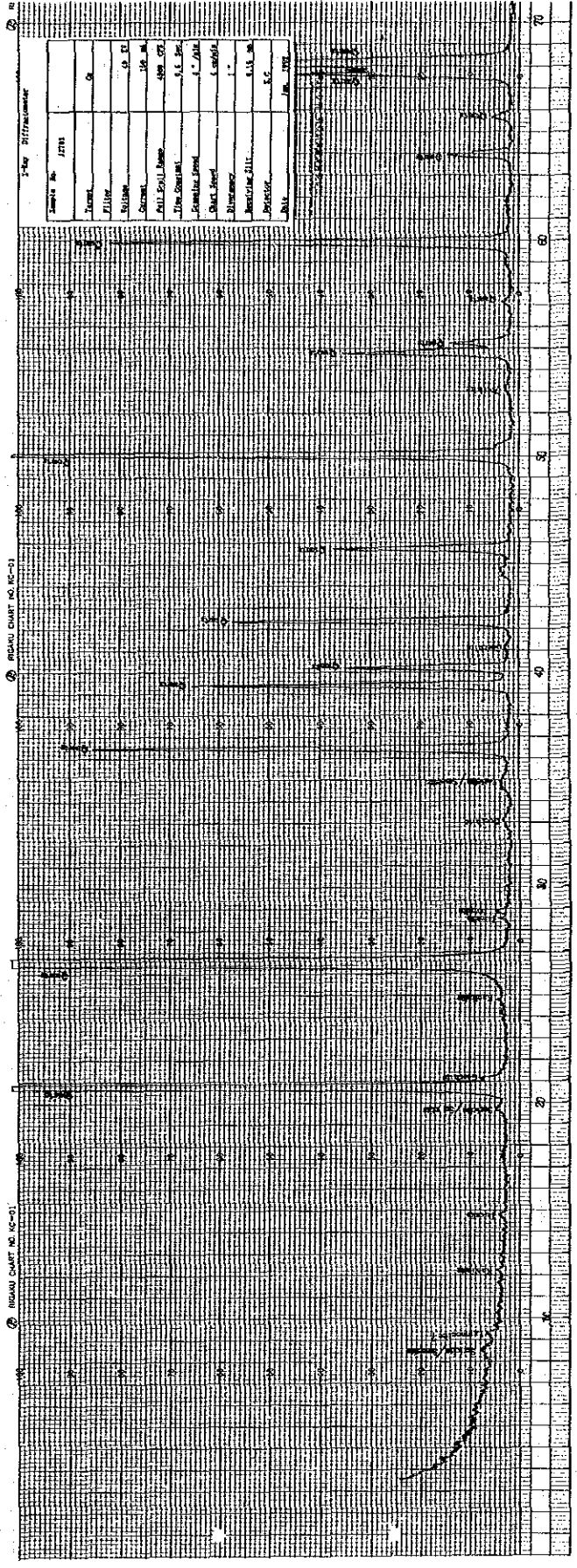
RICARDI CHART NO. RC-52

RICARDI CHART NO. RC-52







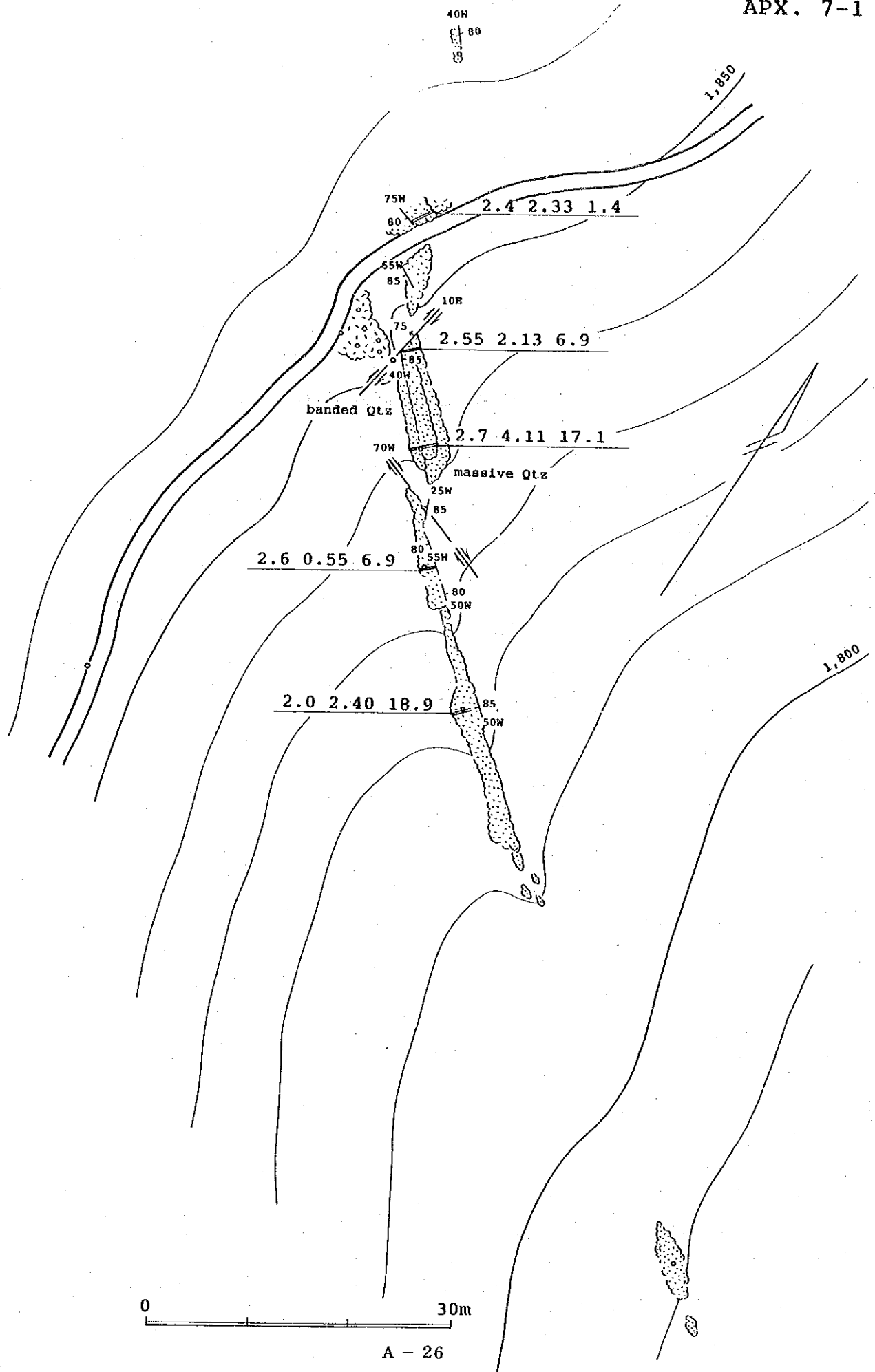


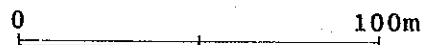
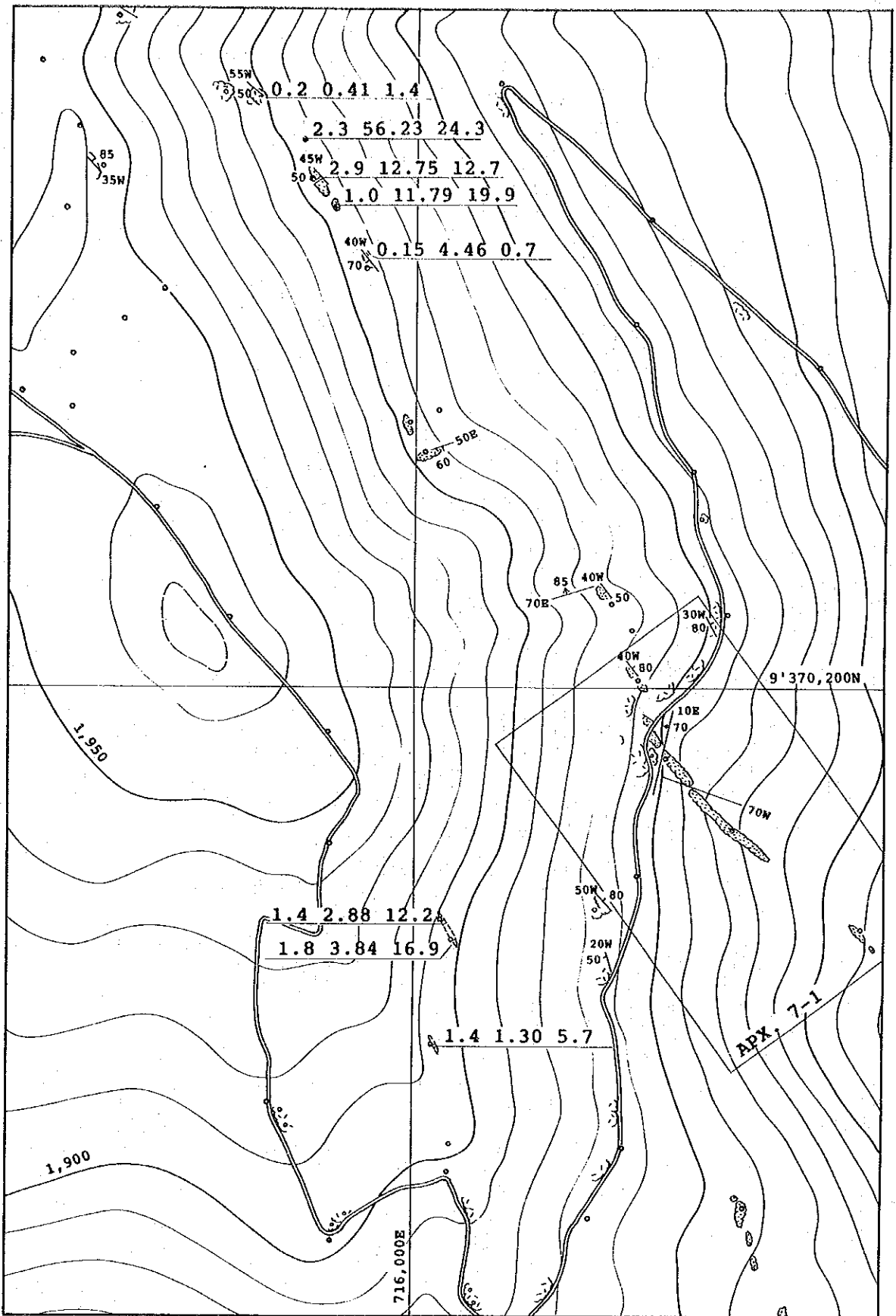
Apx. 6 Assay Results of Ore Samples

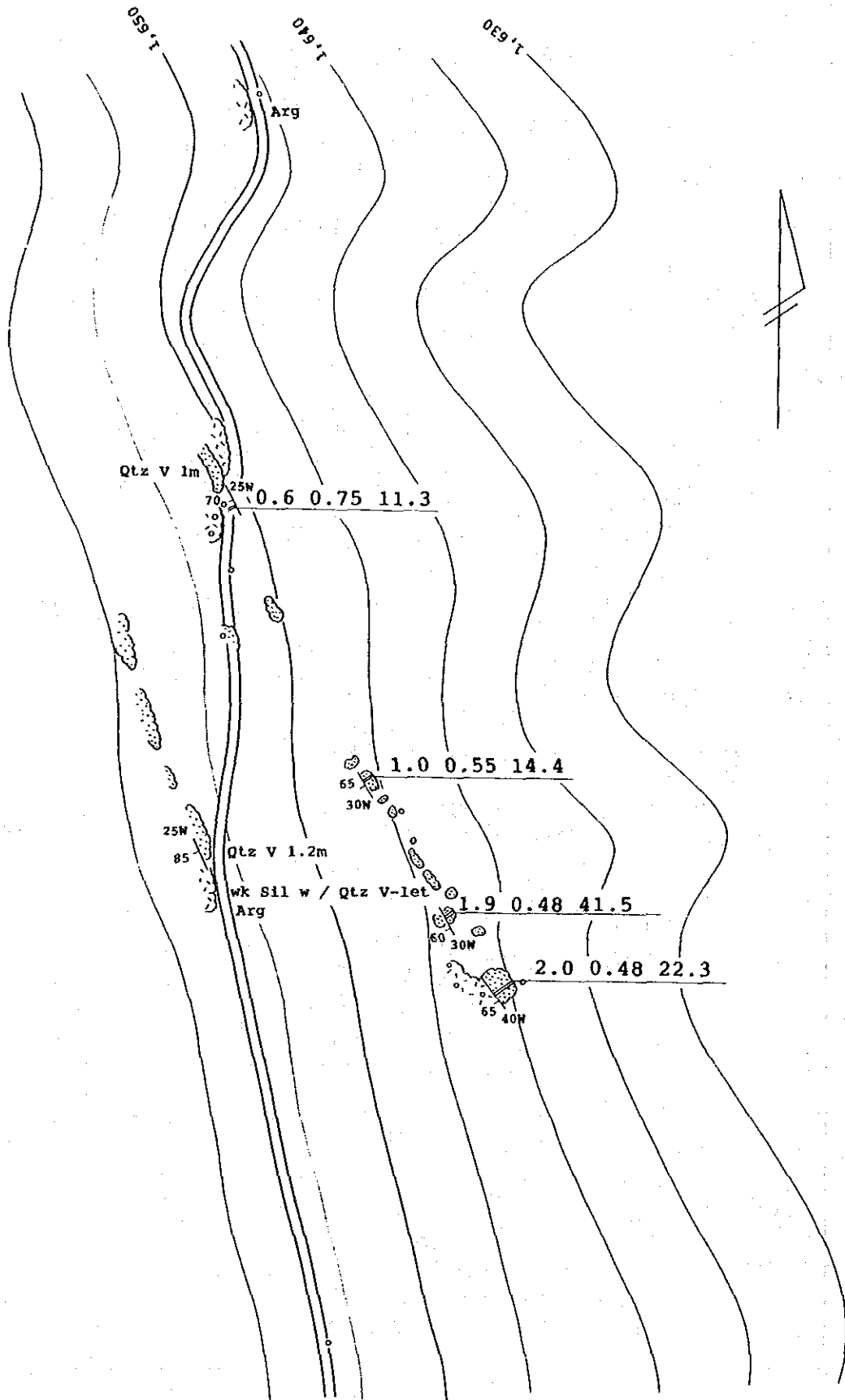
Apx. 6 Assay Results of Ore Samples

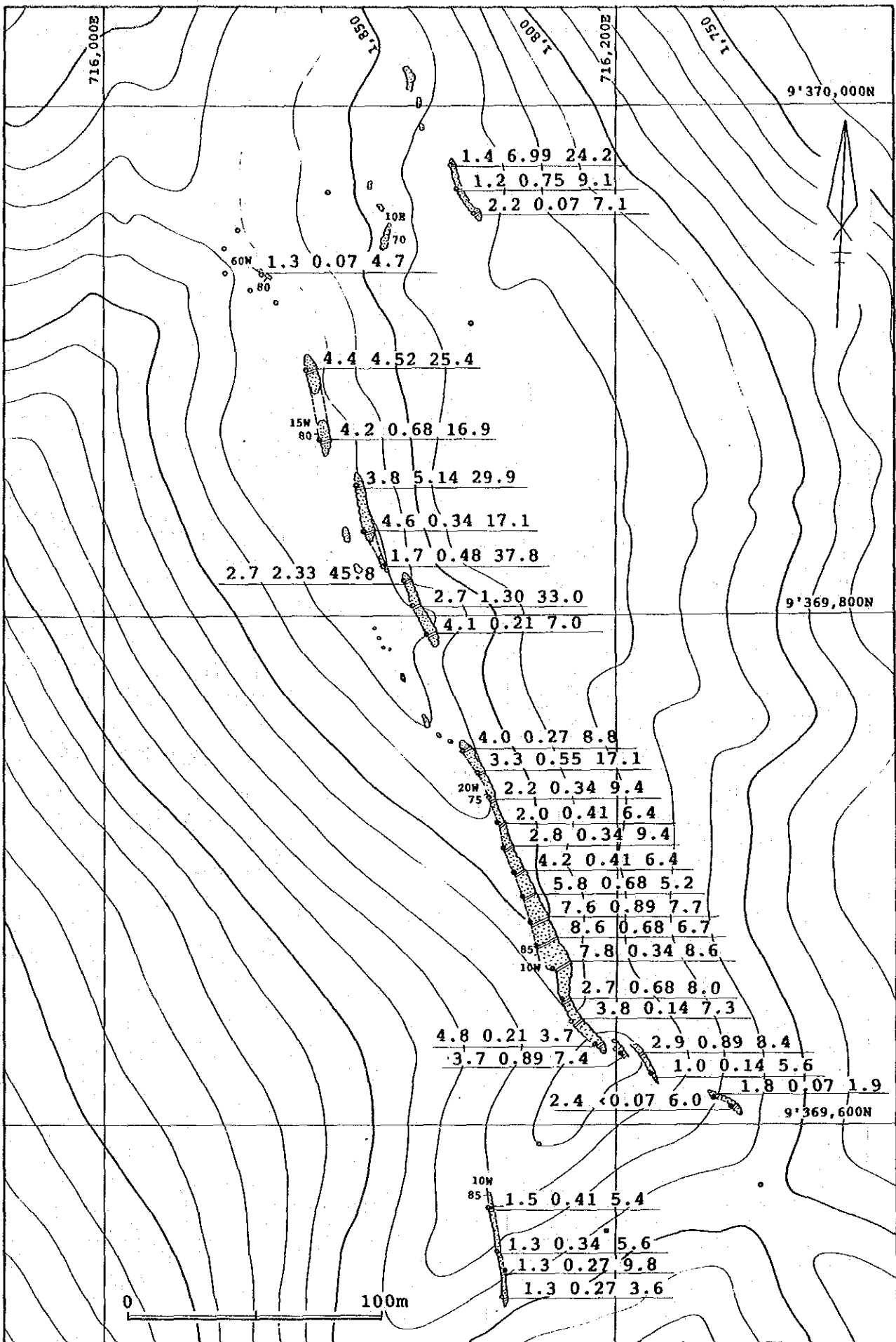
Sample Number	Vein width (m)	Au (g/t)	Ag (g/t)	Average		
				width(m)	Au(g/t)	Ag(g/t)
H 0501	1.7	0.48	6.5			
H 0502	0.6	2.81	4.8	1.15	1.09	6.1
H 0802	0.1	2.81	4.5			
H 1101	2.4	2.33	1.4			
H 1102	2.55	2.13	6.9			
H 1103	3.9	4.11	17.1			
H 1104	2.6	0.55	6.9			
H 1105	2.9	2.40	18.9	2.87	2.47	11.2
H 1501	2.9	12.75	12.7			
H 1502	1.0	11.79	19.9			
H 1503	0.15	4.46	0.7			
H 1504	2.3	50.23	24.3			
H 1505	0.2	0.41	1.4	1.31	25.20	17.3
T 1602	0.6	0.75	11.3			
T 1603	1.0	0.55	14.4			
T 1604	1.9	0.48	41.5			
T 1605	2.0	0.48	22.3	1.38	0.52	26.3
J 1701	1.4	2.88	12.2			
J 1702	1.8	3.84	16.9	1.60	3.42	14.8
J 1703	1.4	1.30	5.7			
J 1704	4.4	4.52	25.4			
J 1705	4.2	0.68	16.9	4.30	2.64	21.2
J 1801	3.8	5.14	29.9			
J 1802	4.6	0.34	17.1			
J 1803	1.7	0.48	37.8	3.15	0.38	22.7
J 1804	2.7	2.33	45.8			
J 1805	2.7	1.30	33.0			
J 1806	4.1	0.21	7.0	3.17	1.12	25.4
J 1901	4.0	0.27	8.8			
J 1902	3.3	0.55	17.1			
J 1903	2.2	0.34	5.7			
J 1904	2.0	0.41	25.6			
J 1905	2.8	0.34	9.4			
J 2201	4.2	0.41	6.4			
J 2202	5.8	0.68	5.2			
J 2203	7.6	0.89	7.7			
J 2204	8.6	0.68	6.7			
J 2205	7.2	0.34	8.6			
J 2301	2.7	0.68	8.0			
J 2302	3.8	0.14	7.3			
J 2303	4.8	0.21	3.7	4.54	0.50	8.2
J 2304	3.7	0.89	7.4			
J 2305	2.9	0.89	8.4			
J 2401	1.0	0.14	5.6	1.95	0.70	7.7
J 2402	1.8	0.07	1.9			
J 2403	2.4	< 0.07	6.0	2.10	0.05	4.2
J 2404	1.3	0.27	3.6			
J 2405	1.3	0.27	9.8			
J 2501	1.3	0.34	5.6			
J 2502	1.5	0.41	5.4	1.35	0.33	6.1
J 2701	1.3	0.07	4.7			
J 2702	2.2	0.07	7.1			
J 2703	1.2	0.75	9.1			
J 2704	1.4	6.99	24.2	1.60	2.26	12.6

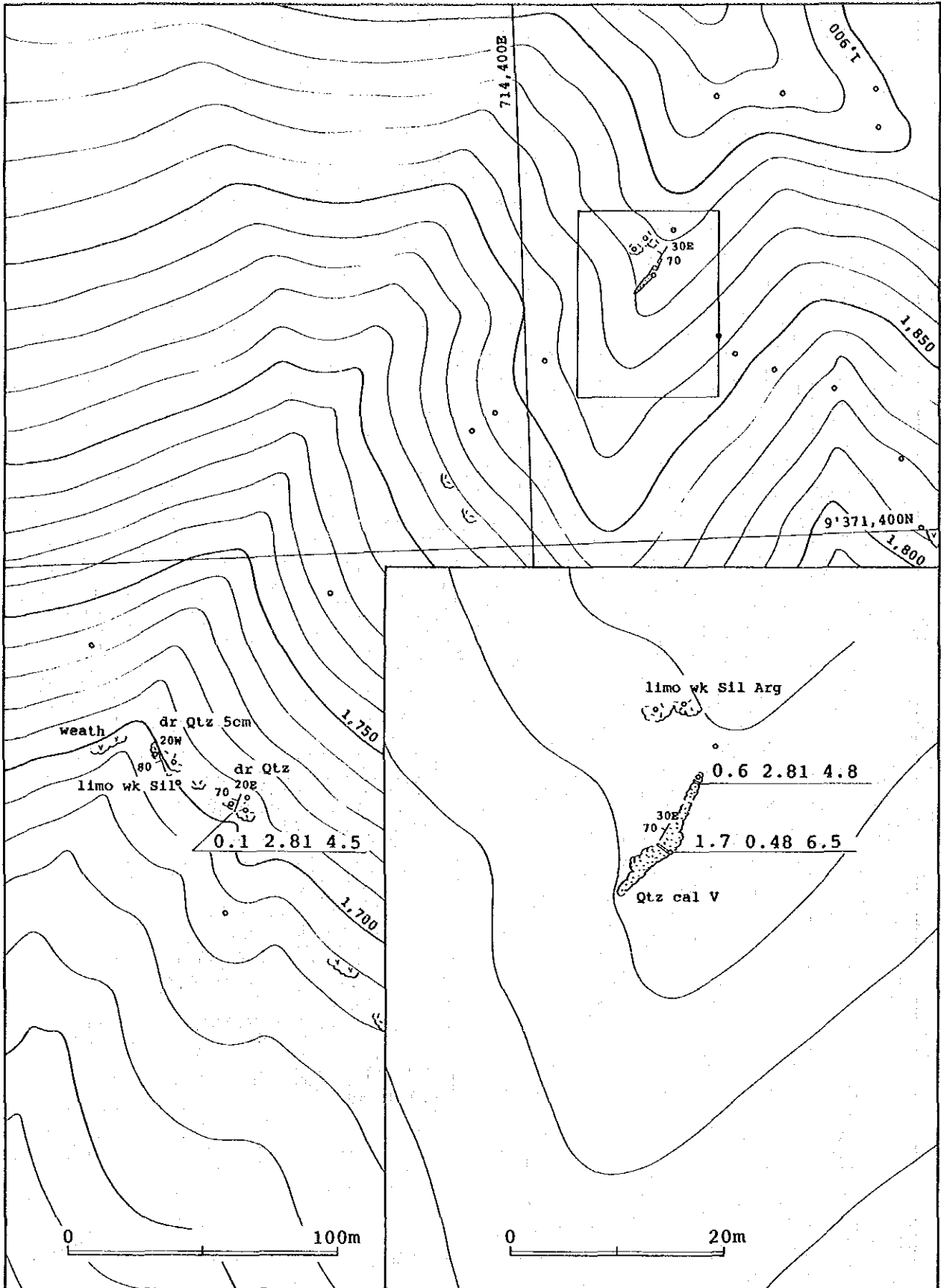
Apx. 7 Geological Sketches of Quartz Vein





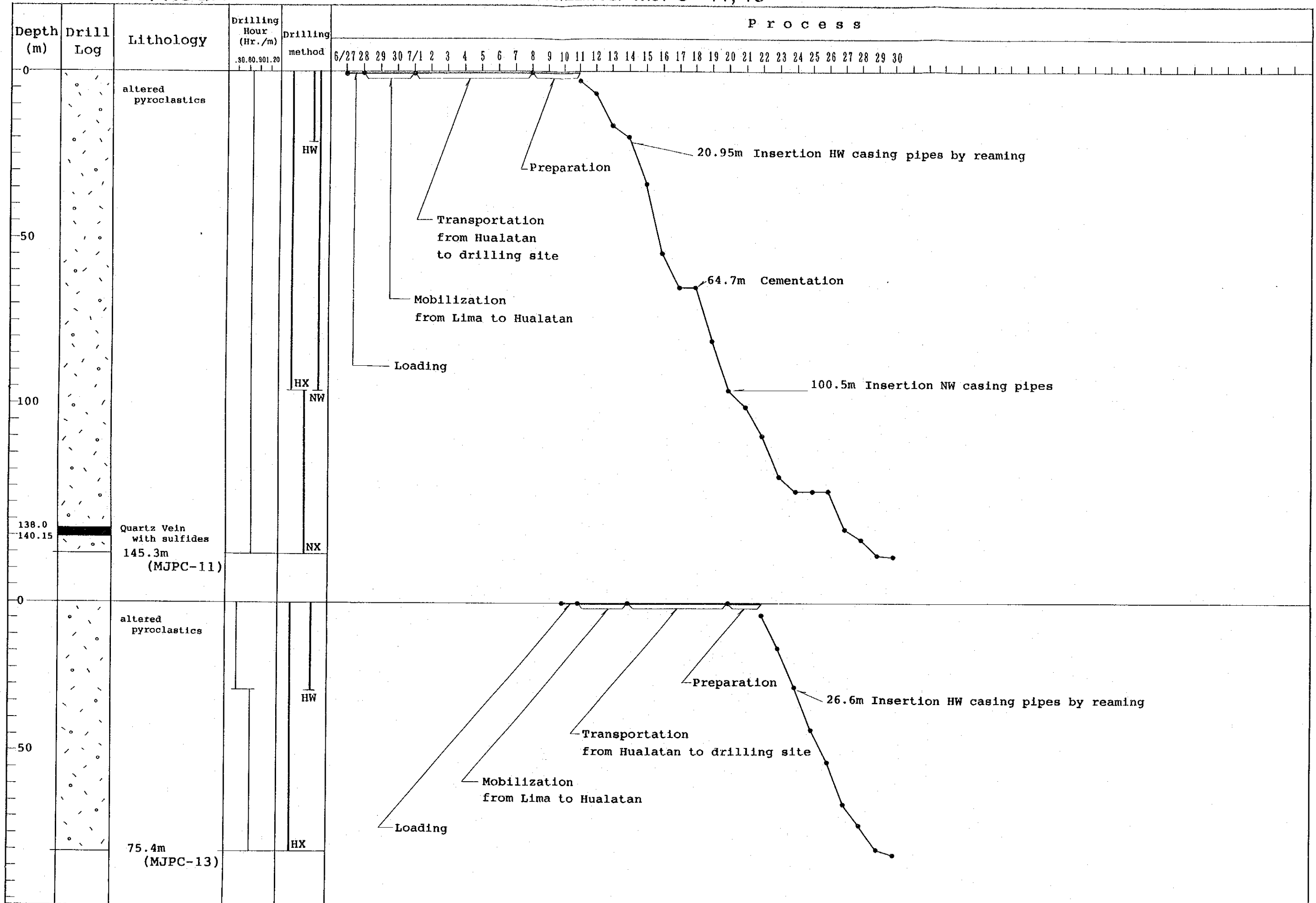






Apx. 8 Miscellaneous Data for the Drilling Survey

APX. 8-1 PROGRESS RECORD OF DIAMOND DRILLING MJPC-11, 13



Apx. 8-2 List of the Used Equipment

Item	Model	Quantity	Capacity, Type and Specification
Drilling Machine	L-44	2	Capacity NQ: 790m BQ: 1,060m Inner Diameter of spindle: 98mm
Engine for Drill	GMG	2	Diesel Engine 2,200rpm / 60~102ps
Pump	BEAM	4	Piston ϕ 68mm Capacity 18~137 liter/min. Pressure 46kg/min.
Engine for Pump	BOCH	4	Diesel Engine 2,200rpm / 35ps
Generator	BRIGG-STRATON	4	5kVA 220v
Mud Mixer	SRENKA	2	Volume 100 liter 800~1,000rpm/min.
Derrick	LONGYEAR	2	
Rod Holder	LONGYEAR	2	
Drill Rods	NC-WL	60	3.00 m/pc
	NX-WL	49	3.00 m/pc
	BX-WL	—	3.00 m/pc
Casing Pipes	HW	32	1.50 m/pc
	NW	34	3.00 m/pc
	BW	—	3.00 m/pc
Core Tube Assembly	NC-WL	4	1.50 m
	NX-WL	4	1.50 m
	BX-WL	—	1.50 m
Inner Tube Assembly	NC-WL	6	1.50 m
	NX-WL	6	1.50 m
	BX-WL	—	1.50 m

Apx. 8-3 Articles of Consumption and Drilling Parts

Item	Specification	Unit	MJPC-11	MJPC-13	total
Light Oil		liter	1,600	880	2,480
Gasorin Oil		"	1,590	280	1,870
Hydraulic Oil		"	80		80
Drilling Oil		"	100	110	210
Grease		kg	35	25	60
Mobil Oil		liter			
Bentonite	40kg/bag	bag	61	38	99
CMC		kg	50	30	80
Cement	47kg/bag	bag	4	3	7
Single Core Tube	116mm×0.5m	Set			
Wireline Core Barrel	NC×1.7m	"	1	1	2
"	NX×1.7m	"	1	—	1
"	BX×1.7m	"	—	—	—
Inner Tube Assembly	NC×1.7m	"	1	1	2
"	NX×1.7m	"	1	—	1
"	BX×1.7m	"	—	—	—
Outer Tube	NC×1.5m	"	1	1	2
"	NX×1.5m	"	1	—	1
"	BX×1.5m	"	—	—	—
Inner Tube	NC×1.5m	"	1	1	2
"	NX×1.5m	"	1	—	1
"	BX×1.5m	"	—	—	—
Casing Diamond Shoe	HW (114.3m/m)	PC	2	3	5
"	NW	"	1	—	1
Wire Rope	6mm×500m	roll	1	1	2
"	12mm×90m	"	1	1	2
"	18mm×100m	"	1	1	2
Manila Rope		PC	1	1	2
Pump Packing		"	—	—	—
Piston Rod		"	—	—	—
Guide Pipe	NC	"	—	—	—
"	NX	"	—	—	—
Valve Steel Ball	38.1φ	"	—	—	—
Guide Coupling	NC	"	—	—	—
"	NX	"	—	—	—
Suction Hose		"	1	1	2
Water Swivel Packing		"	—	—	—
Water Swivel Spindle		"	—	—	—
V Belt		"	—	—	—
Core Lifter	NC	"	3	2	5
"	NX	"	1	—	1
Core Lifter Case	NC	"	2	1	3
"	NX	"	—	—	—
Core Box	NC	"	26	20	46
"	NX	"	11	—	11
"	BX	"	—	—	—

Apx. 8-4 Drilling Meterage of Diamond Bits

Size	Type	Bit No.	Drilling meterage by drill hole, Unite meter				Total
			MJPC-11	MJPC-13			
NC	NC-WL	66087	23.90	13.75			37.65
NC	NC-WL	66088	40.80				40.80
NC	NC-WL	66089	35.80				35.80
NC	NC-WL	66090		46.45			46.45
NC	NC-WL	66091		15.20			15.20
Total			100.50	75.40			175.90
NX	NX-WL	66144	44.80				44.80
G. Total			145.30	75.40			220.70

Apx. 9 Geological Core Log of the Drillings.

MJPC- 11

DIRECTION : 42°
INCLINATION: -50°

Depth	Column	Interval	Description	Alteration					Mineralization					Assay		Sample Number
				Fr	Sil	Arg	Chl	Others	Py	Cp	Tch	Sp	Gn	Others	Au	
			weathered limonitized lp tf partly fractured	-	+											
		23.9	fractured Arg Sil lp tf	+	-	+										
50		54.45	fractured Sil lp tf	++	+	-										
		60.3	Arg Sil lp tf	+	-	+										
		74.95														
		80.85	fractured	++												
		91.15	Sil lp tf		+	-										
100		109.35	fractured Arg Sil lp tf	++	-	+										
		117.4	Sil lp tf	-	+	+										
		138.0	Quartz vein w/sulphide		++					+	-	-				
		140.15														
		145.3	Sil lp tf 145.3(FIN)	+	+	-										
150																

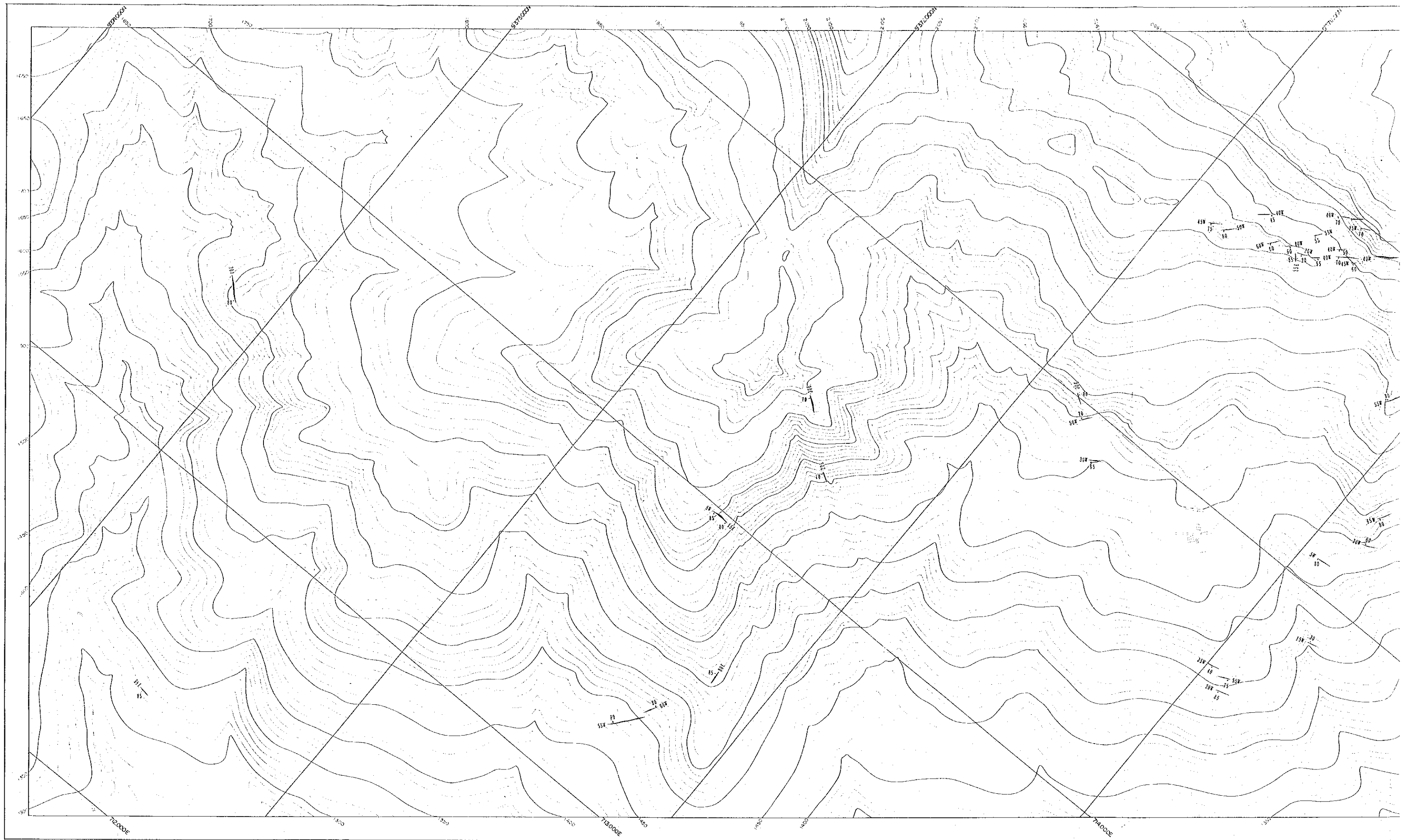
NC
↑
↓
NX

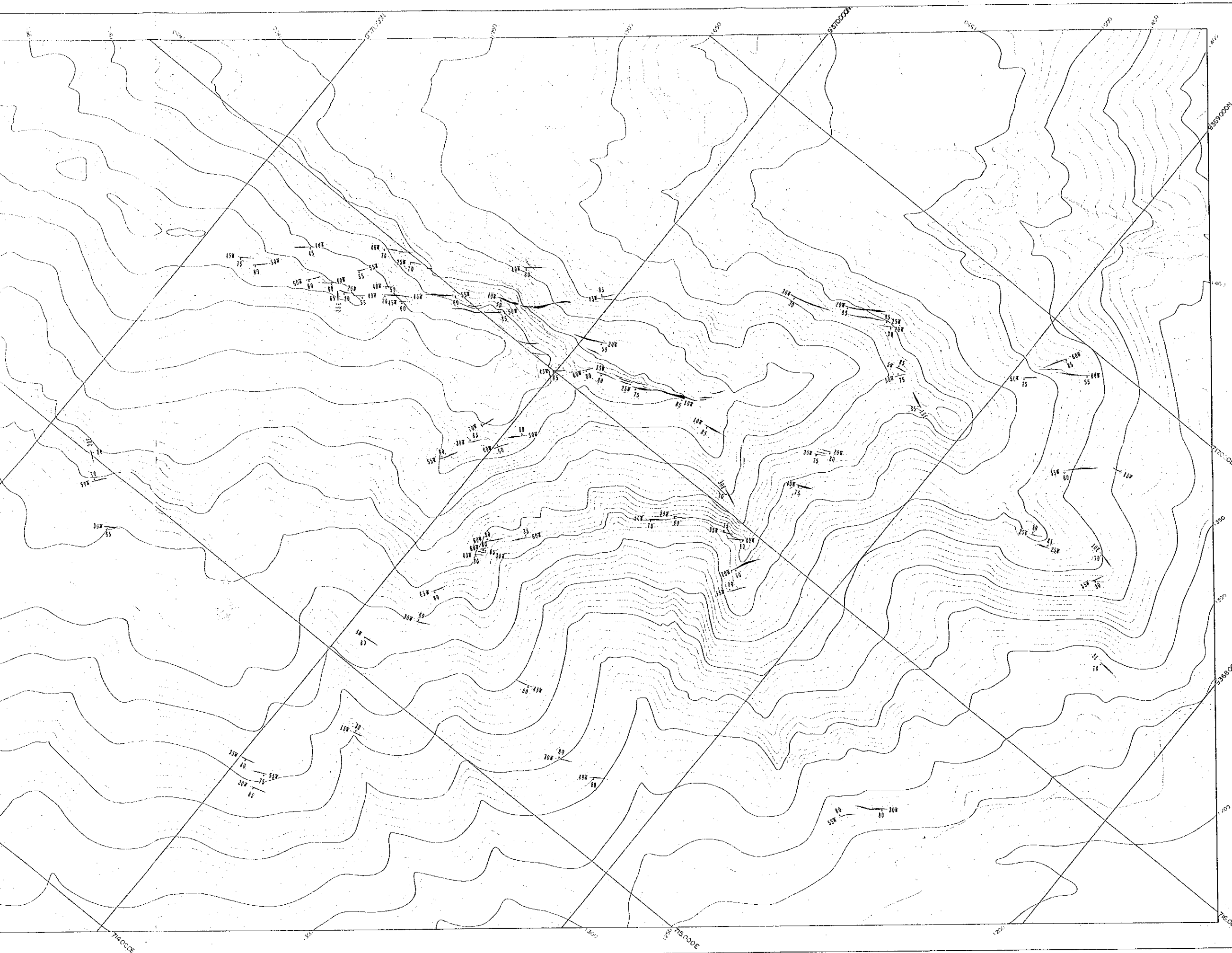
MJPC- 13

DIRECTION : 271°
 INCLINATION: -30°

Depth	Column	Interval	Description	Alteration					Mineralization					Assay		Sample Number		
				Fr	Sil	Arg	Chl	Others	Py	Cp	Tch	Sp	Cu	Others	Au		Ag	
50	[Patterned]		weathered limonitized lp if partly fractured	-	(-)	+												
				?		?												
				(+)		(+)												
		53.2	weathered lp tf	+	-	-												
		66.45	Silicified lp tf	-	+	-												
		75.4	75.4(FIN)															

THE
AMERICAN
LIBRARY

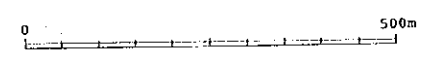




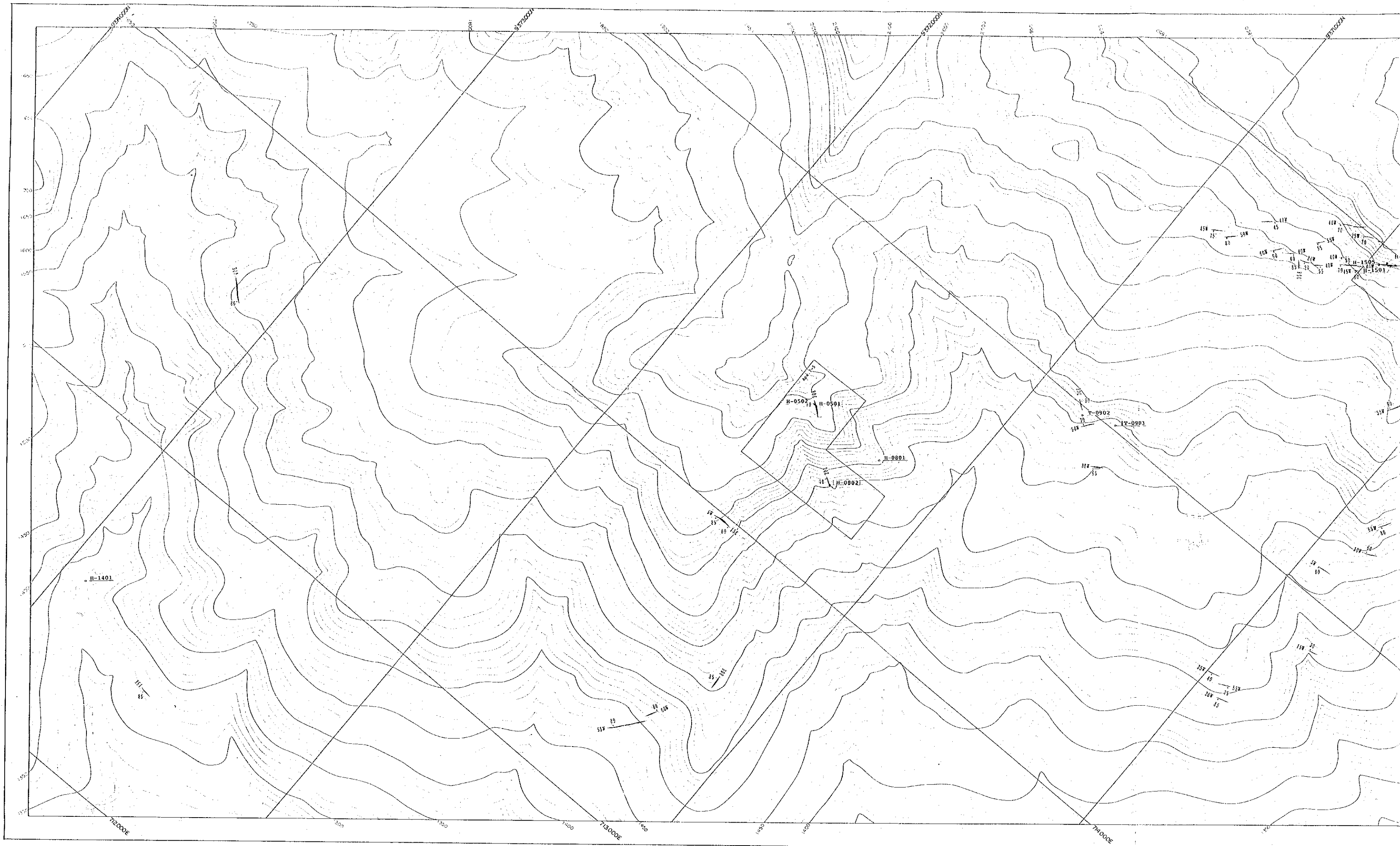
PL. - 1

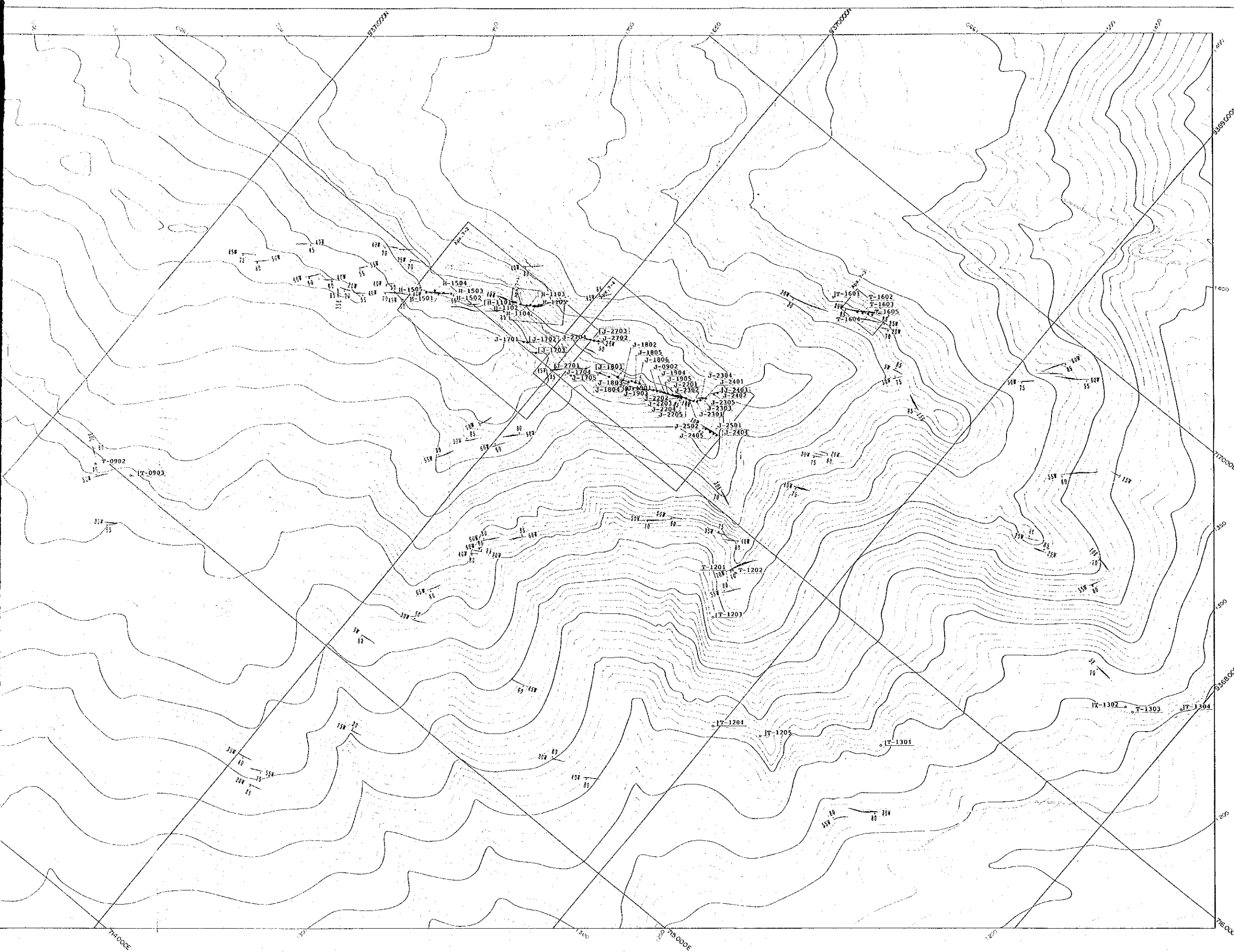
THE MINERAL EXPLORATION
IN
THE PACHAPIRIANA AREA, REPUBLIC OF PERU
(PHASE IV)
DISTRIBUTION OF QUARTZ VEIN
IN THE CHONTALI AREA

JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
JANUARY 1992
prepared by MINDECO



- Quartz Vein
- Dip and Strike of Quartz Vein

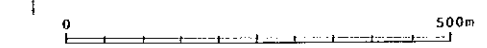




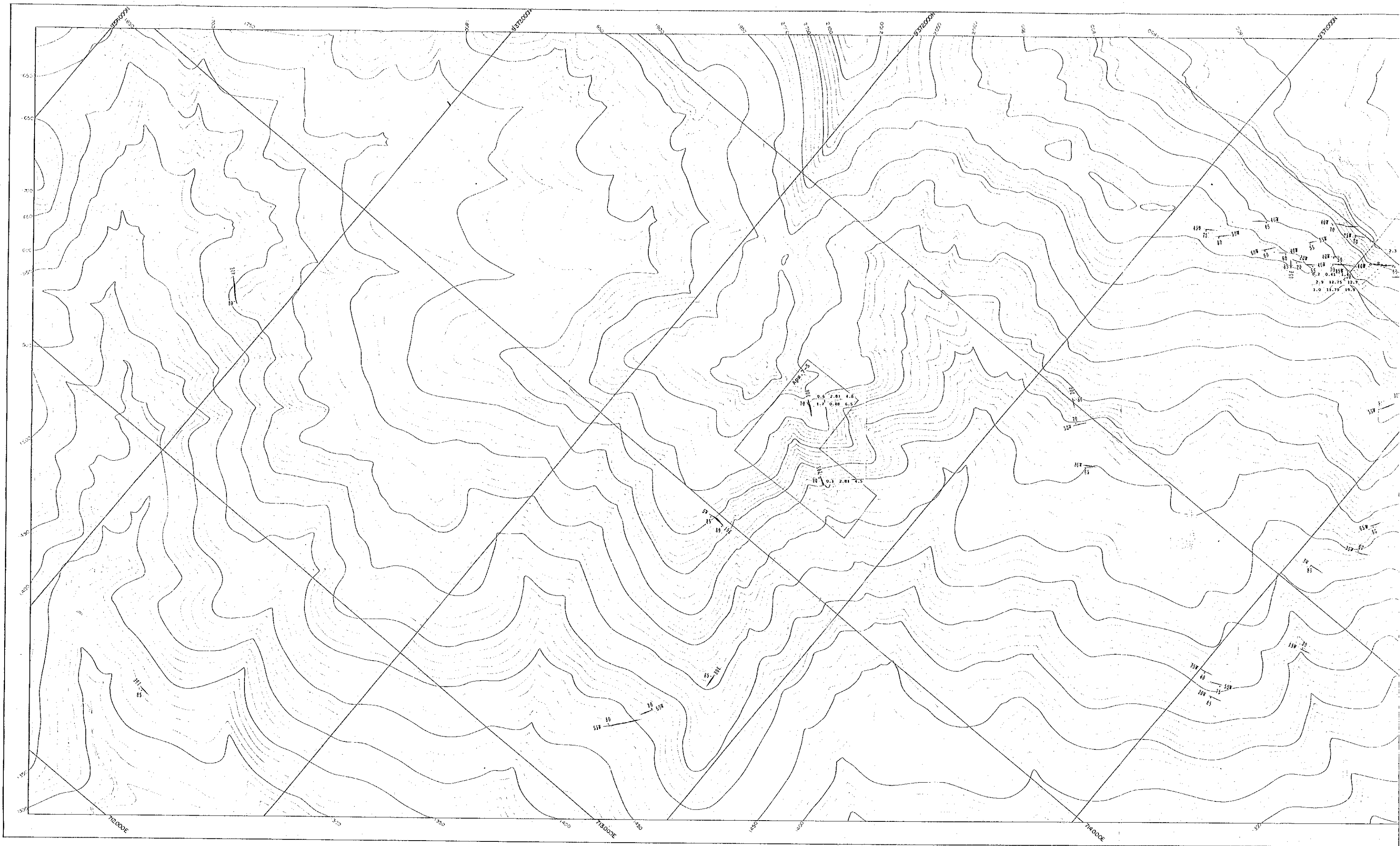
PL - 2

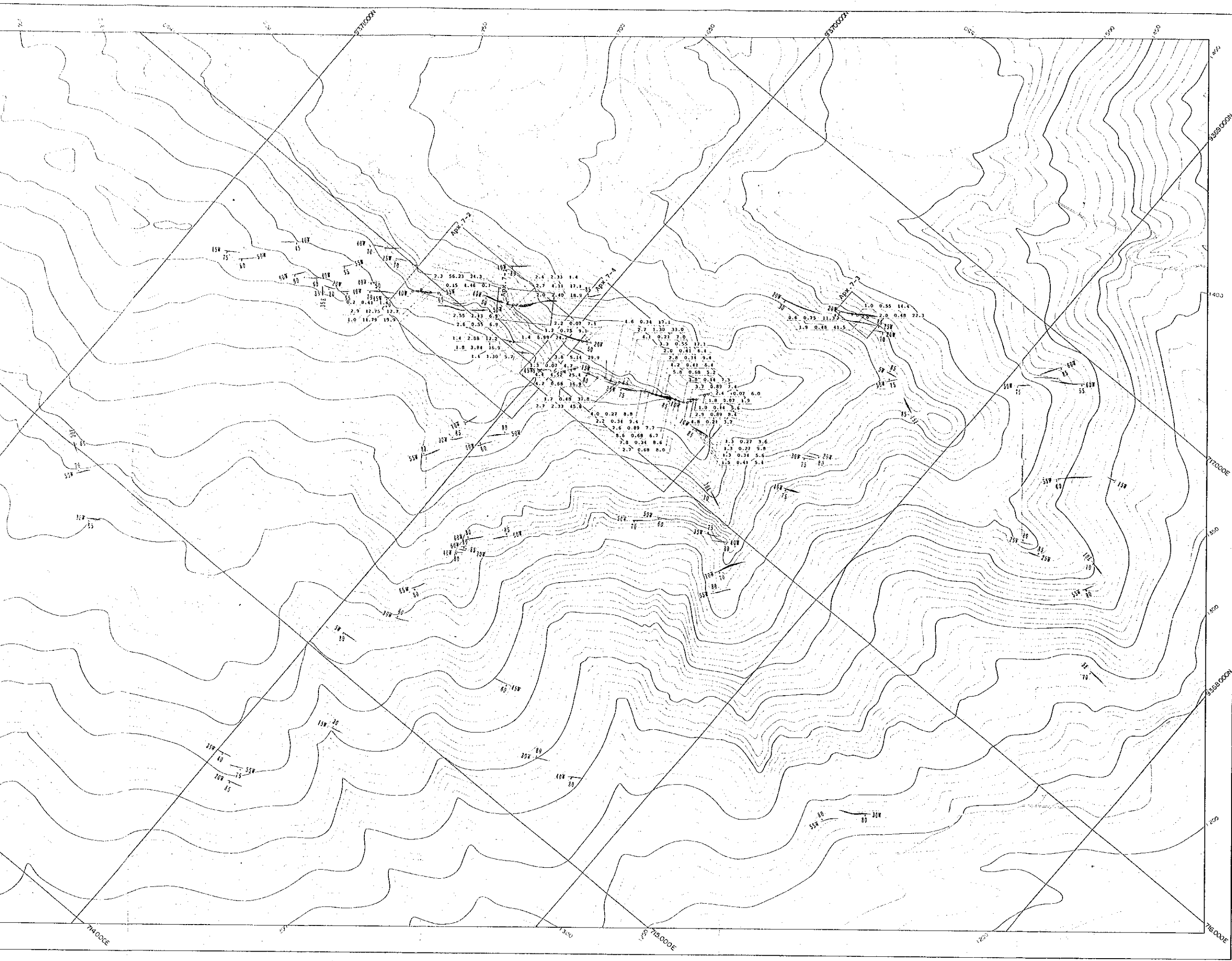
THE MINERAL EXPLORATION
IN
THE PACHAPIRIANA AREA, REPUBLIC OF PERU
(PHASE IV)
LOCATION MAP OF SAMPLES
IN THE CHONTALI AREA

JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
JANUARY 1992
prepared by MINDECO



- T-1202 Sample Location and it's Number
- T-1605 Sample of Chemical Analysis for Ore Grade
- H-0801 Sample of Thin Section
- T-1205 Sample of X-Ray Diffractive Analysis
- H-0802 Sample of Homogenization Temperature





PL - 3

THE MINERAL EXPLORATION
IN
THE PACHAPIRIANA AREA, REPUBLIC OF PERU
(PHASE IV)
LOCATION MAP OF ORE SAMPLES
WITH SHOWING ASSAY RESULTS
IN THE CHONTALI AREA

JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
JANUARY 1992
prepared by MINDECO



○ 1.4 4.52 25.4
Sample Length (m), Au(g/t), Ag(g/t).

