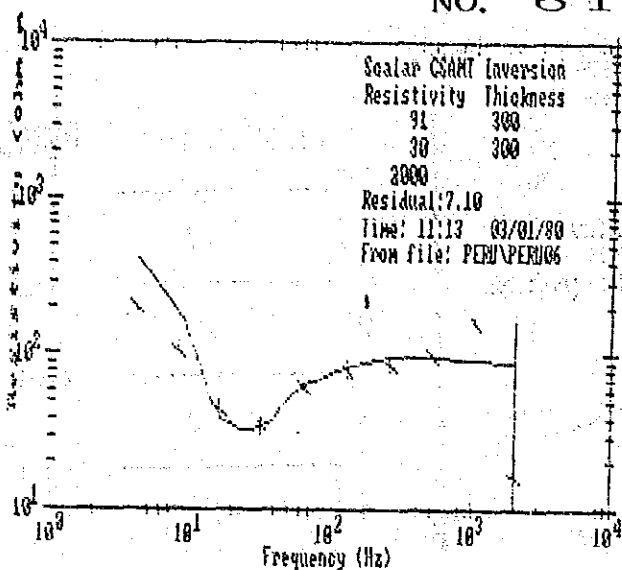
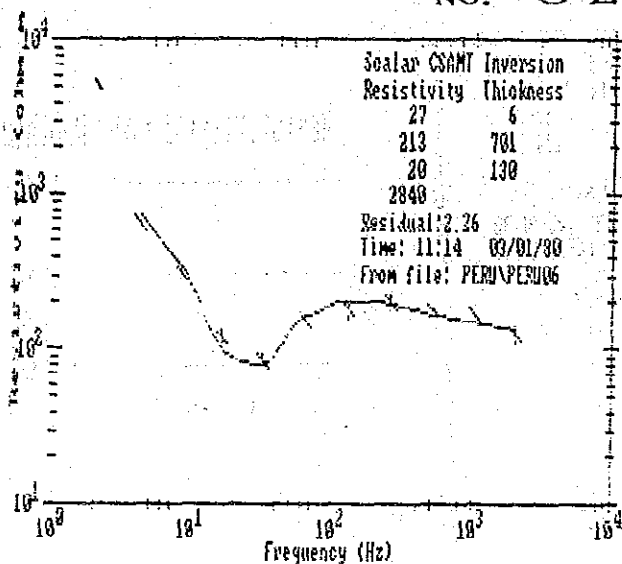


NO. 6 1



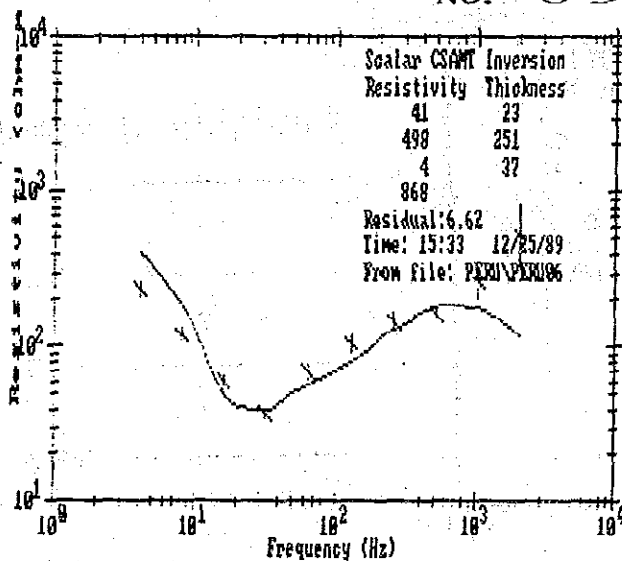
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	91	
		300
2	30	
		600
3	2000	

NO. 6 2



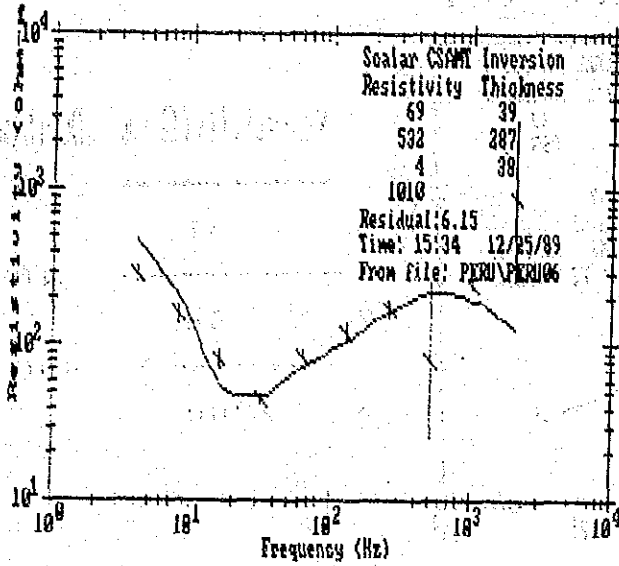
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	27	
		6
2	213	
		707
3	20	
		837
4	2840	

NO. 6 3



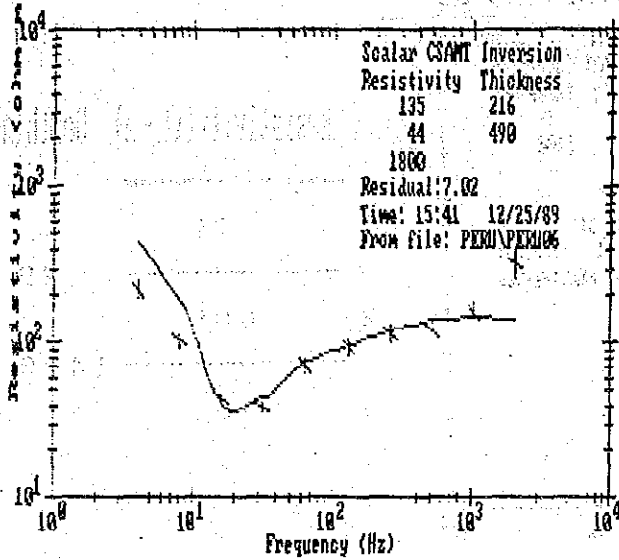
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	41	
		23
2	498	
		274
3	4	
		311
4	868	

NO. 64



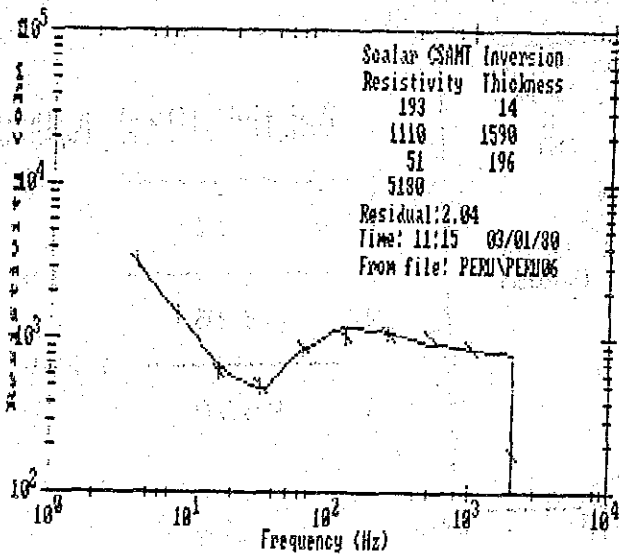
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	69	39
2	532	326
3	4	364
4	1010	

NO. 65



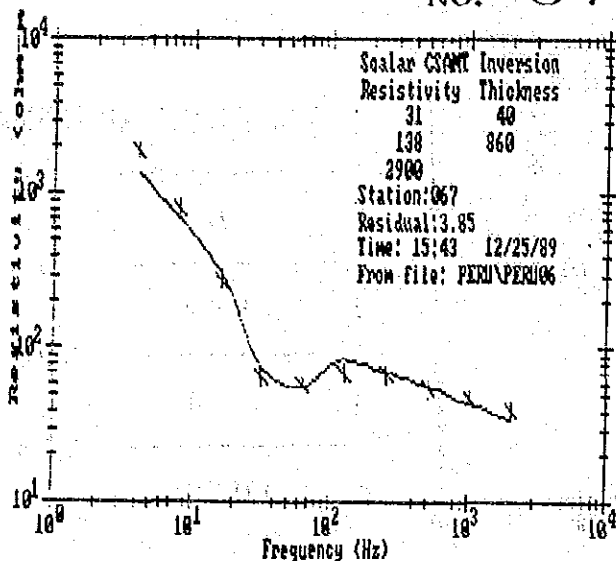
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	135	216
2	44	706
3	1800	

NO. 66



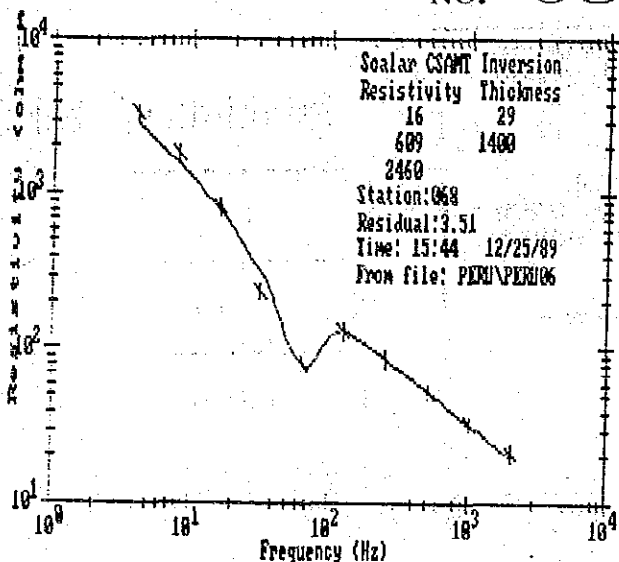
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	193	14
2	1110	1604
3	51	1800
4	5180	

NO. 67



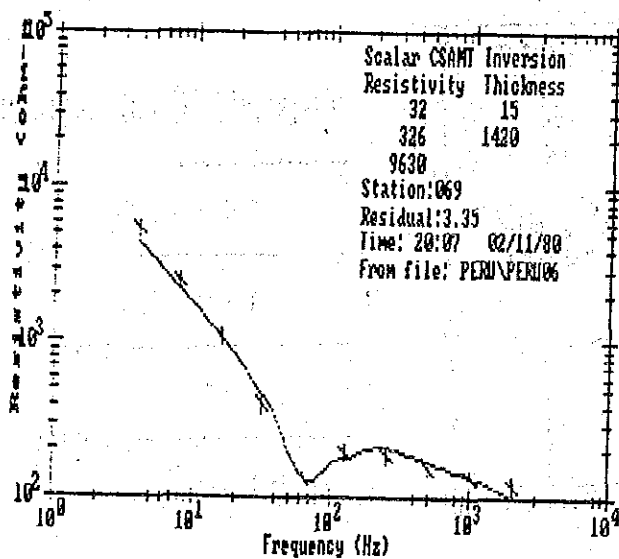
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	31	40
2	138	860
3	2900	

NO. 68



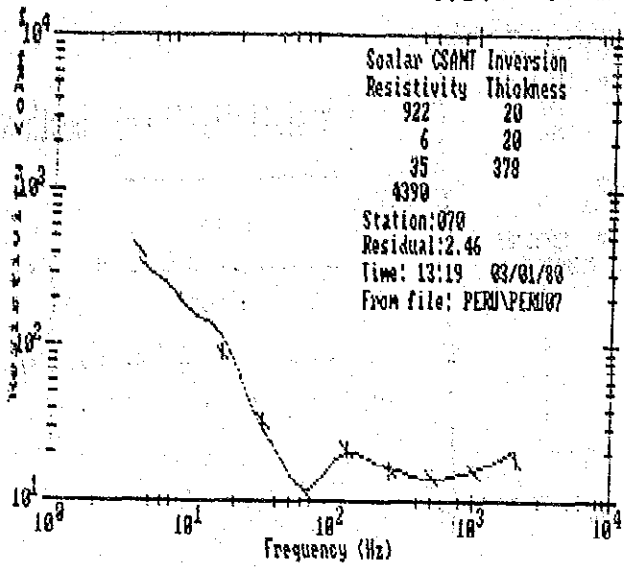
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	16	29
2	609	1429
3	2460	

NO. 69



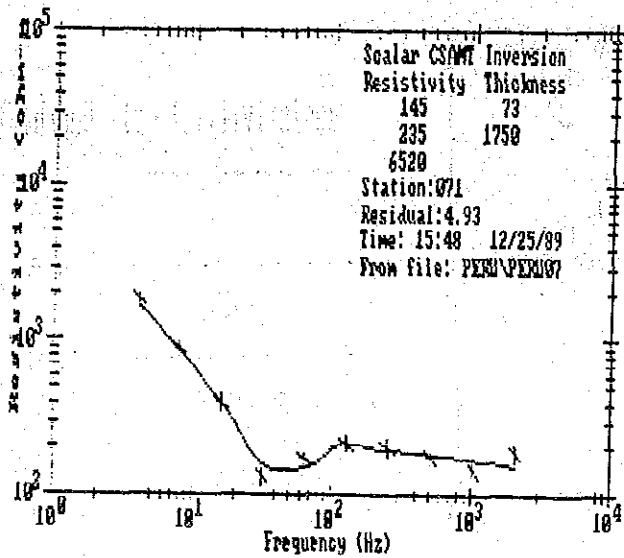
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	32	15
2	326	1435
3	9630	

NO. 70



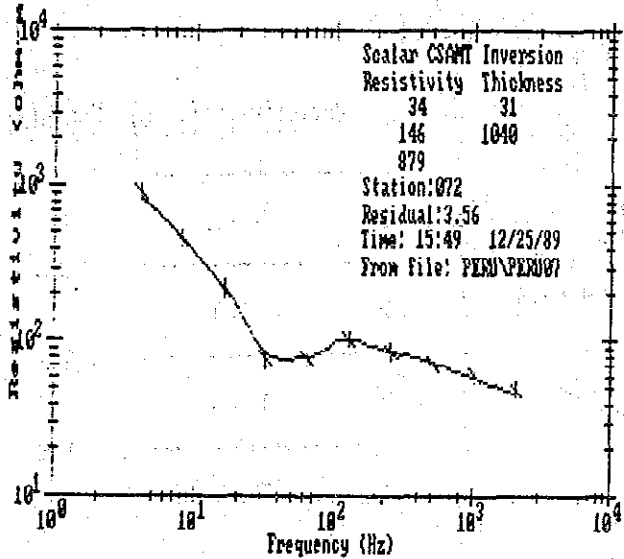
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	922	20
2	6	40
3	35	418
4	4390	

NO. 71



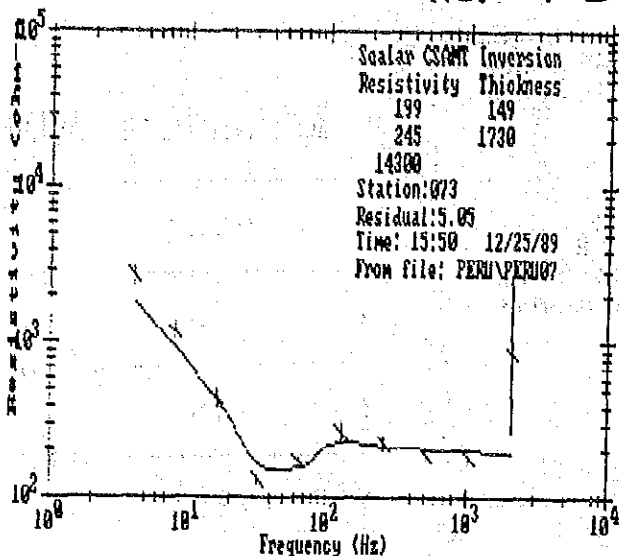
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	145	73
2	235	1823
3	6520	

NO. 72



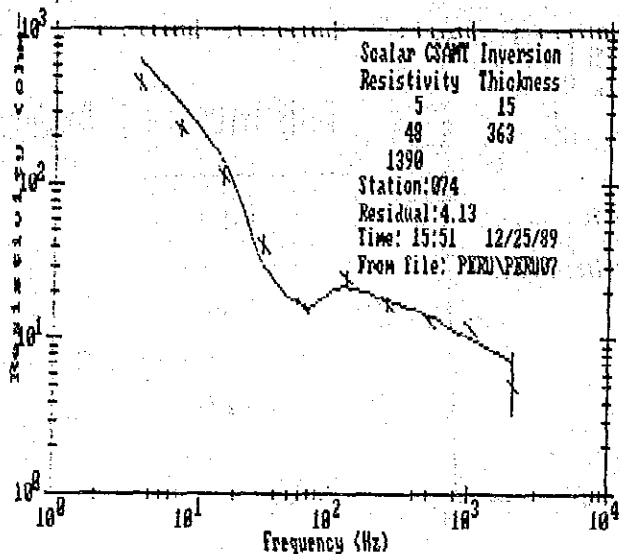
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	34	31
2	146	1071
3	879	

NO. 73



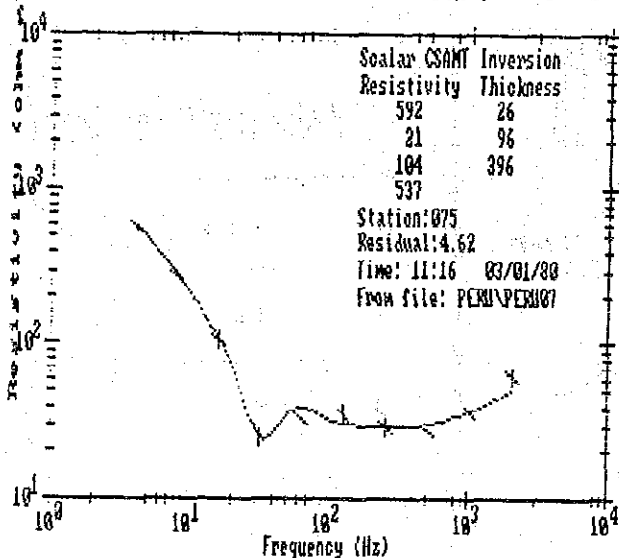
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	199	
		149
2	245	
		1879
3	V H	

NO. 74



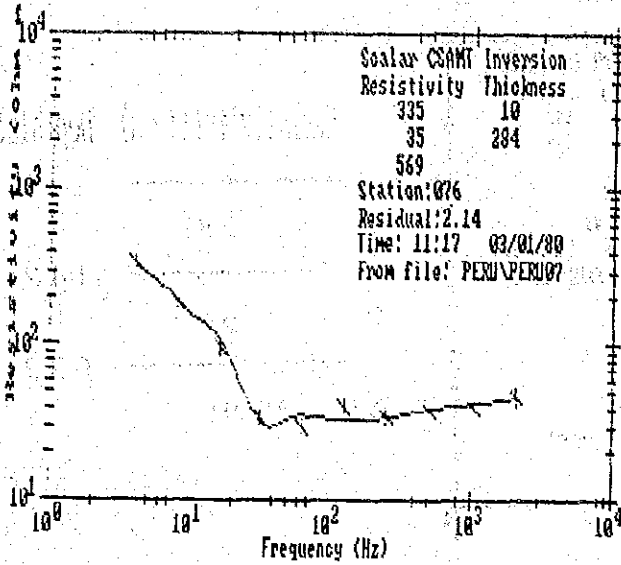
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	5	
		15
2	48	
		378
3	1390	

NO. 75



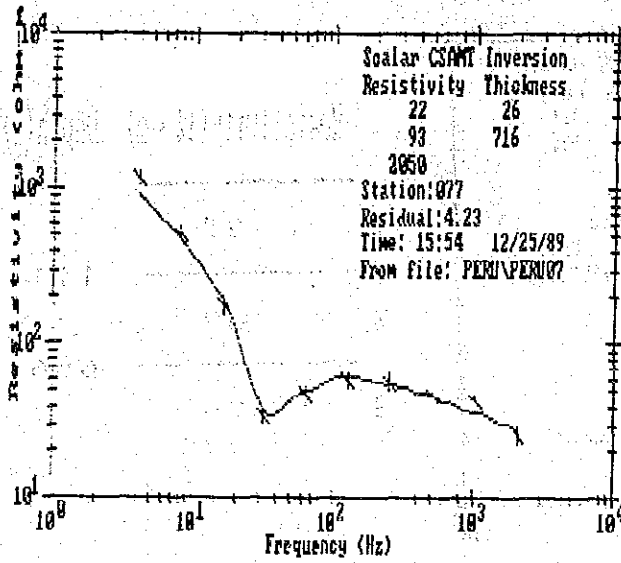
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	592	
		26
2	21	
		122
3	104	
		518
4	537	

NO. 76



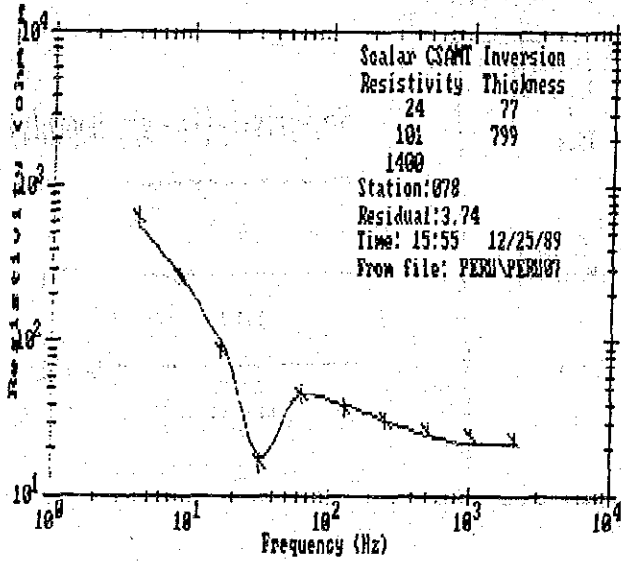
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	335	
		10
2	35	
		294
3	569	

NO. 77



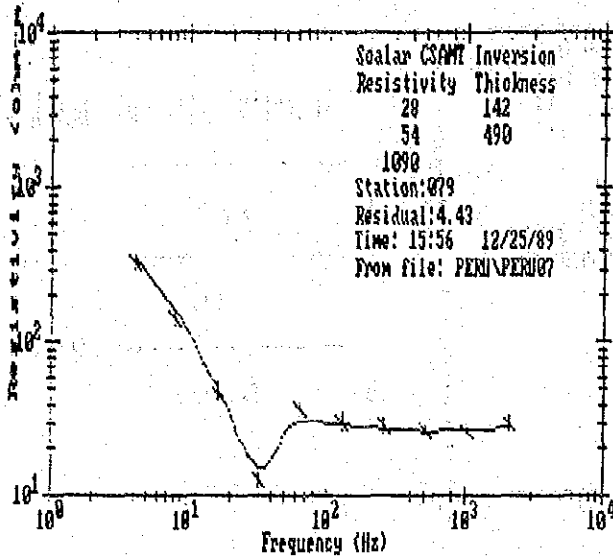
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	22	
		26
2	93	
		742
3	2050	

NO. 78



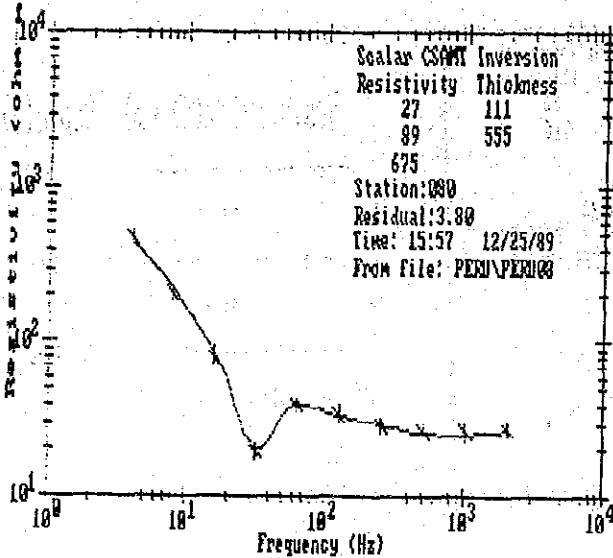
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	24	
		77
2	101	
		876
3	1400	

NO. 79



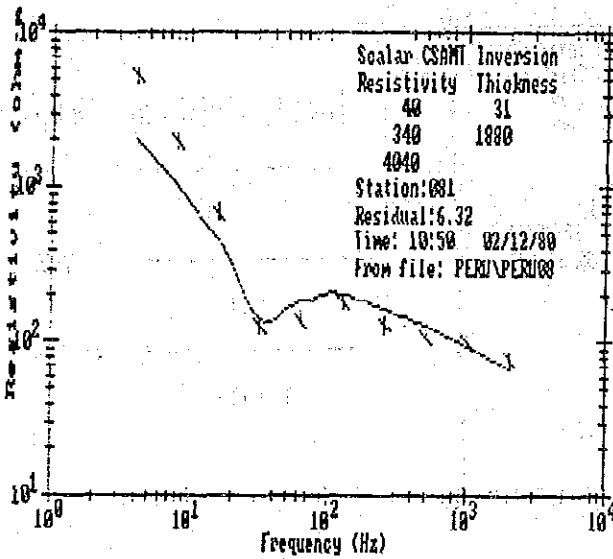
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	28	142
2	54	632
3	1090	

NO. 80



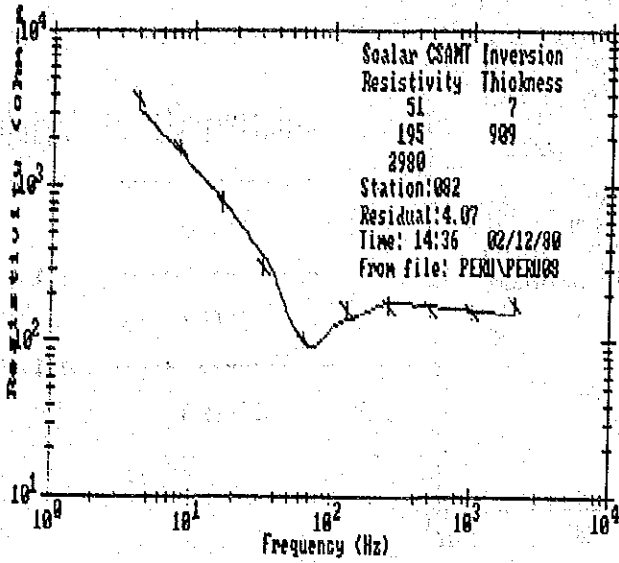
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	27	111
2	89	666
3	675	

NO. 81



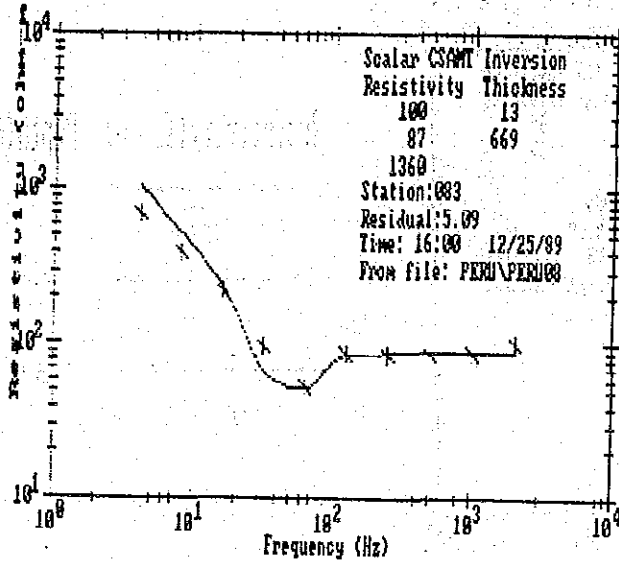
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	40	31
2	340	1911
3	4040	

NO. 82



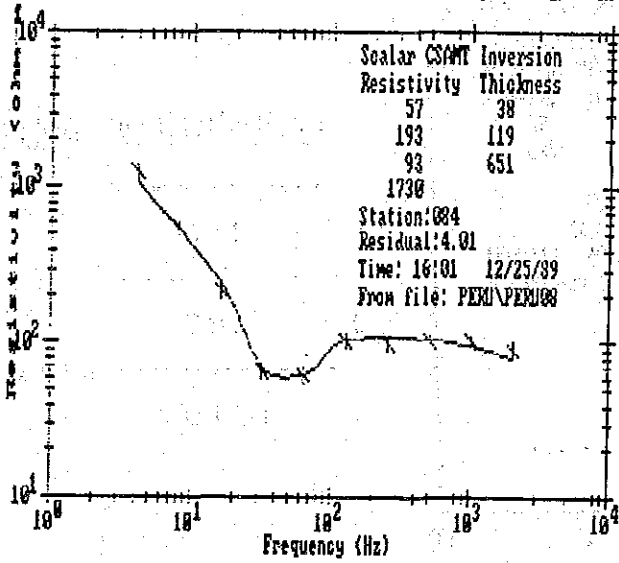
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	51	7
2	195	916
3	2980	

NO. 83



	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	100	13
2	87	682
3	1360	

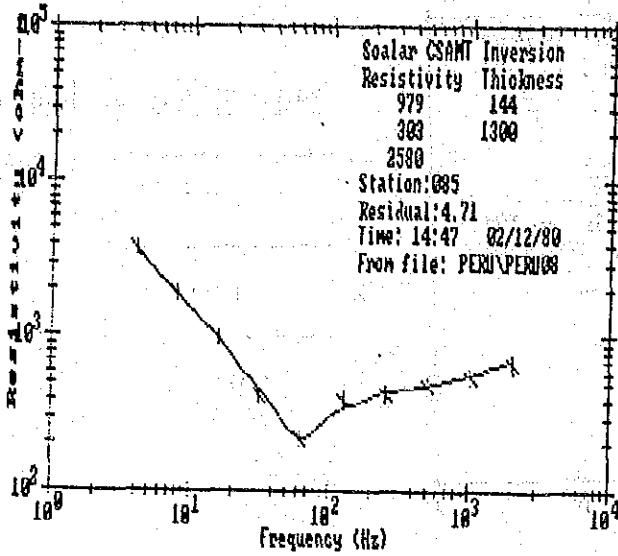
NO. 84



	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	57	38
2	193	157
3	93	808
4	1730	

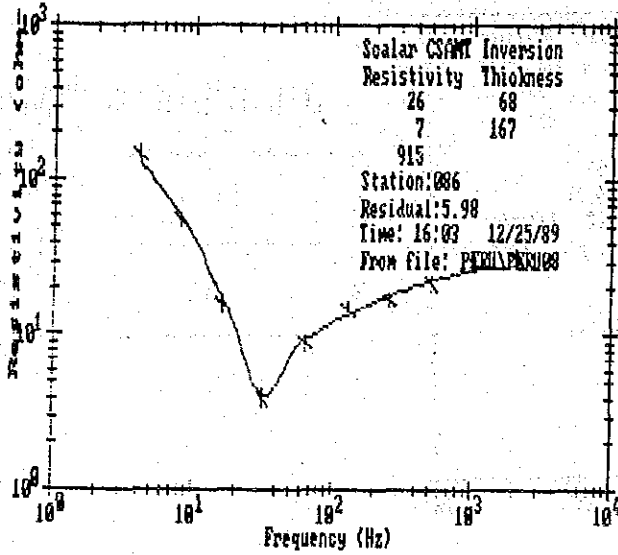


NO. 85



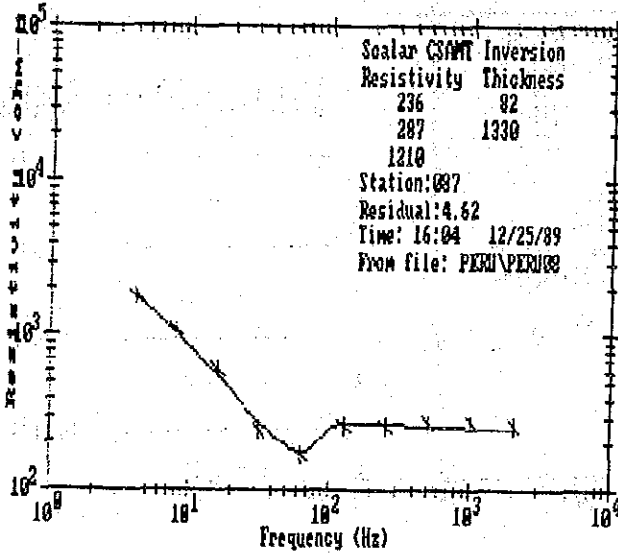
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	979	144
2	303	1444
3	2580	

NO. 86



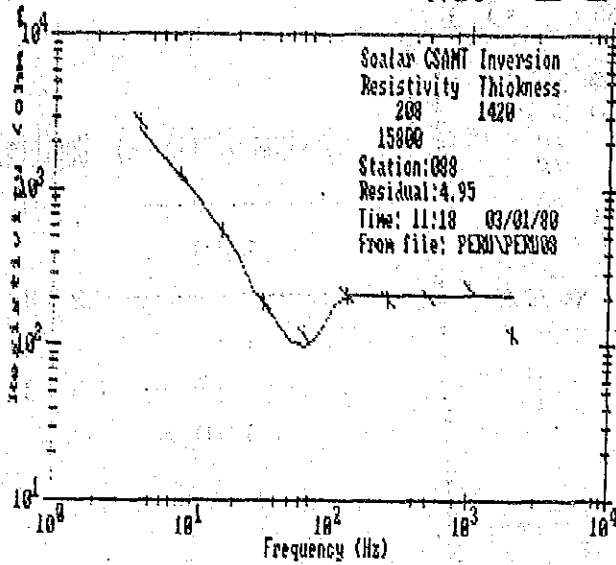
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	26	68
2	7	235
3	915	

NO. 87



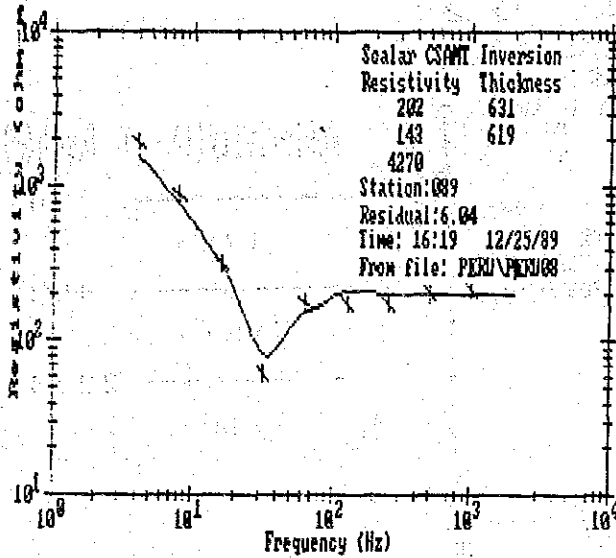
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	236	82
2	287	1412
3	1210	

NO. 88



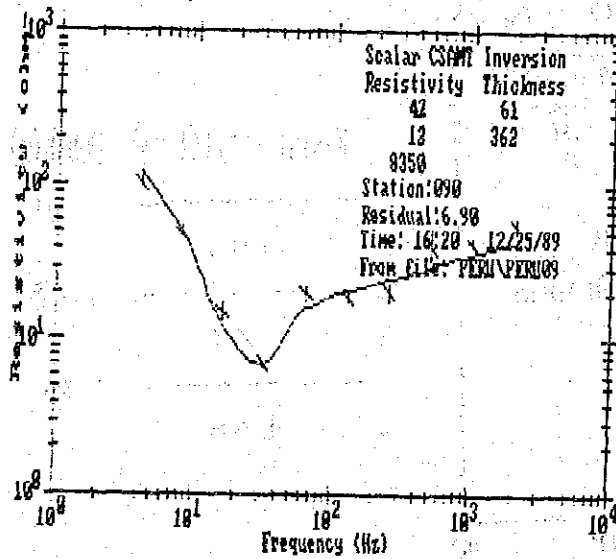
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	208	
		1420
2	V H	

NO. 89



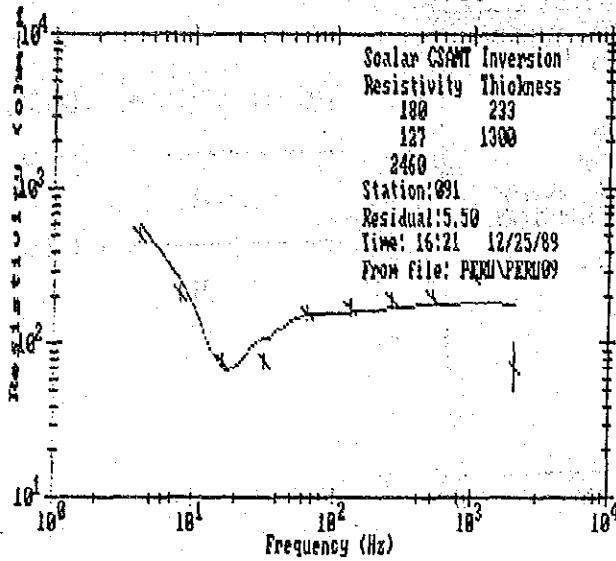
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	202	
		631
2	143	
		1250
3	4270	

NO. 90



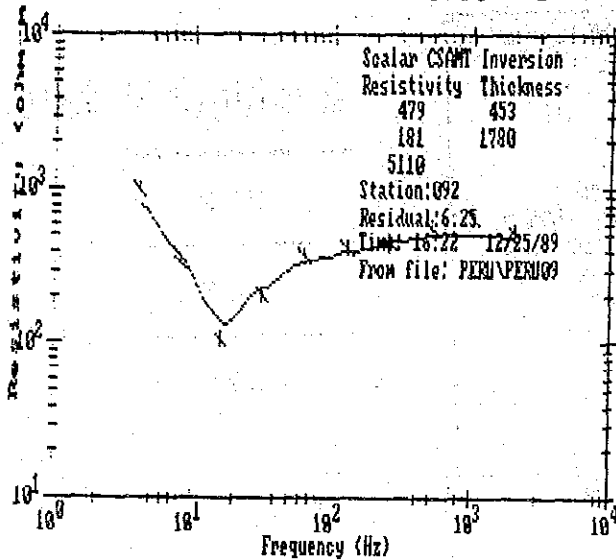
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	42	
		61
2	12	
		423
3	8350	

NO. 91



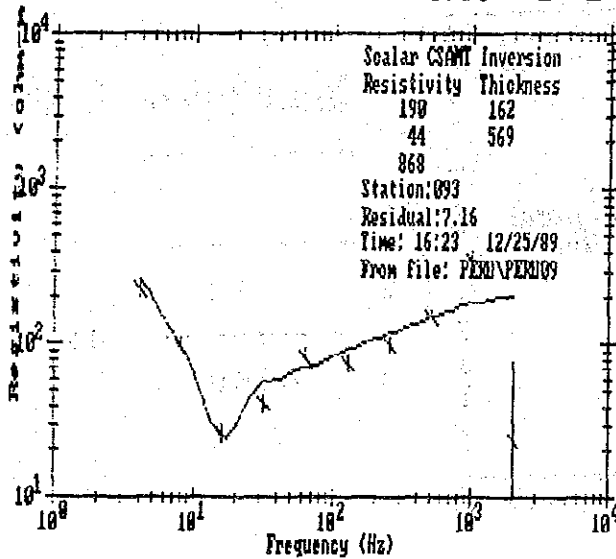
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	180	
		233
2	127	
		1533
3	2460	

NO. 92



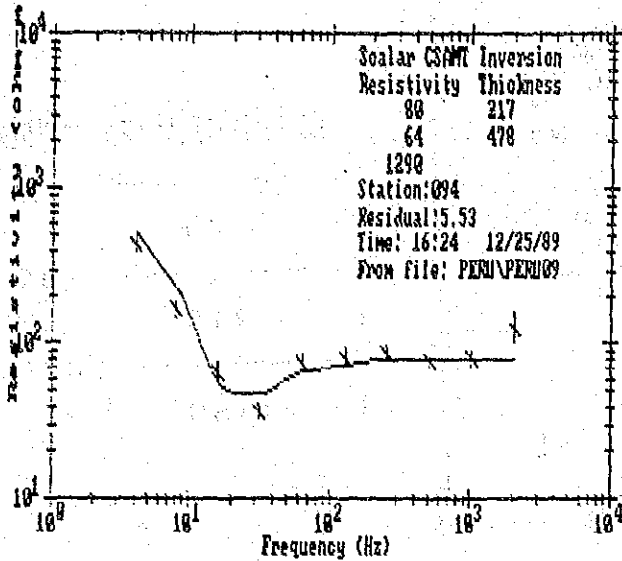
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	479	
		453
2	181	
		2233
3	5110	

NO. 93



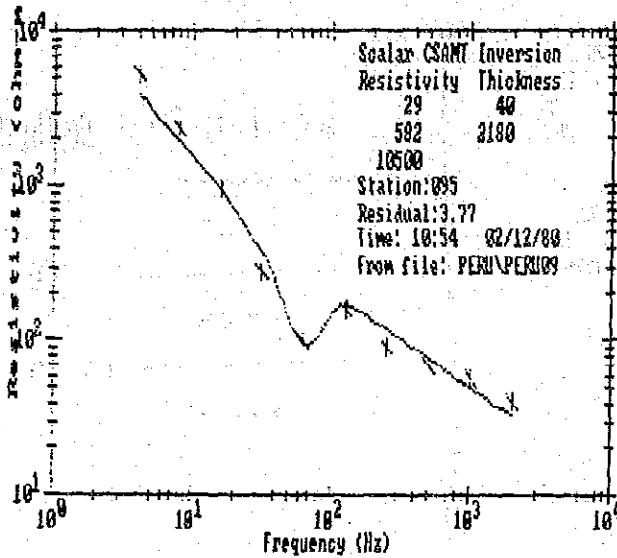
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	190	
		162
2	44	
		731
3	868	

NO. 94



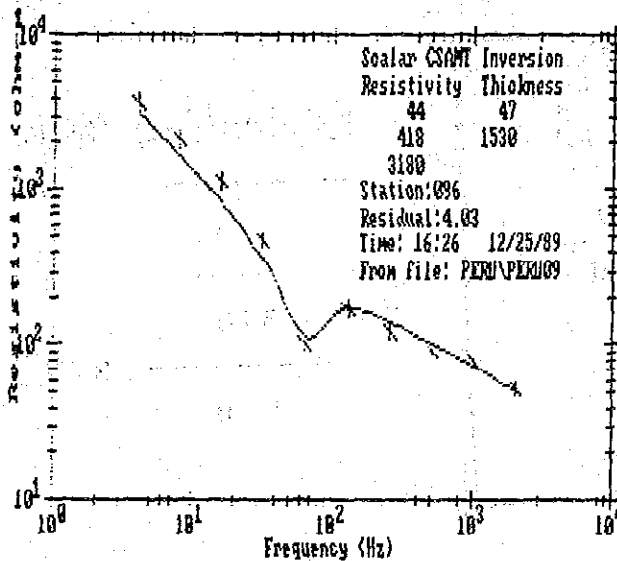
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	80	217
2	64	695
3	1290	

NO. 95



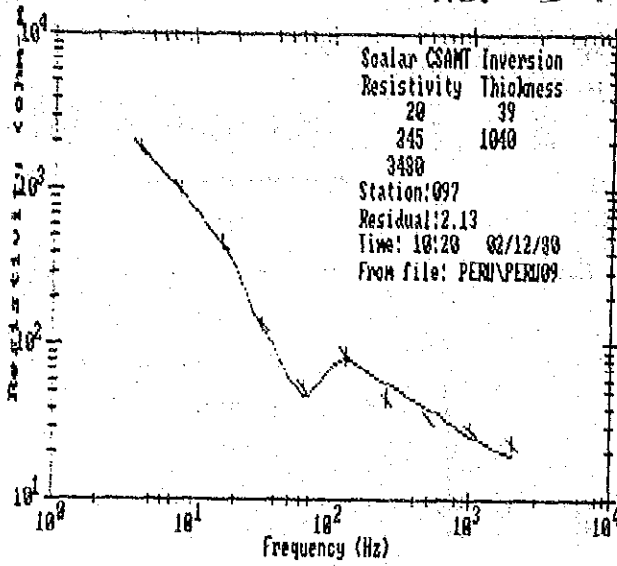
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	29	40
2	582	2220
3	V H	

NO. 96



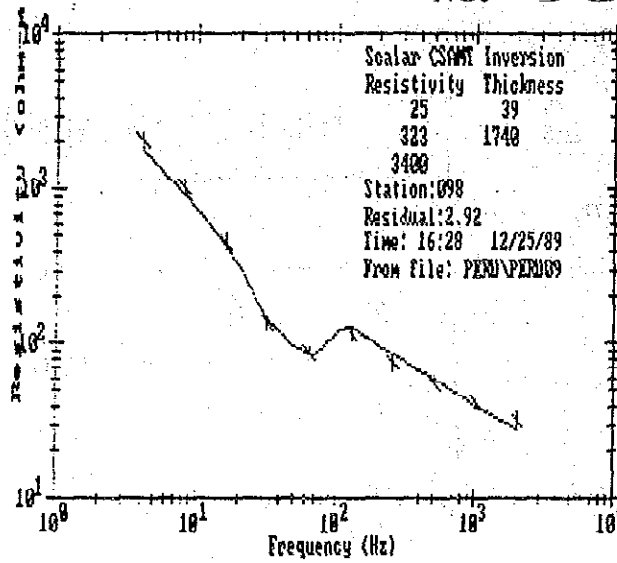
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	44	47
2	418	1577
3	3180	

NO. 97



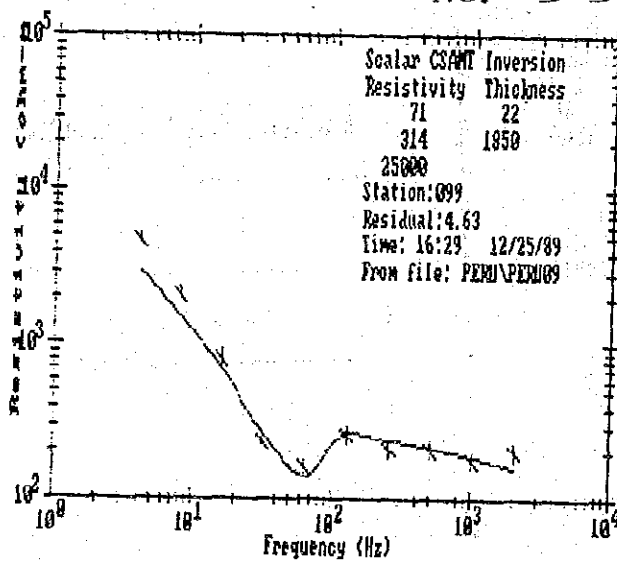
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	20	
		39
2	245	
		1079
3	3480	

NO. 98



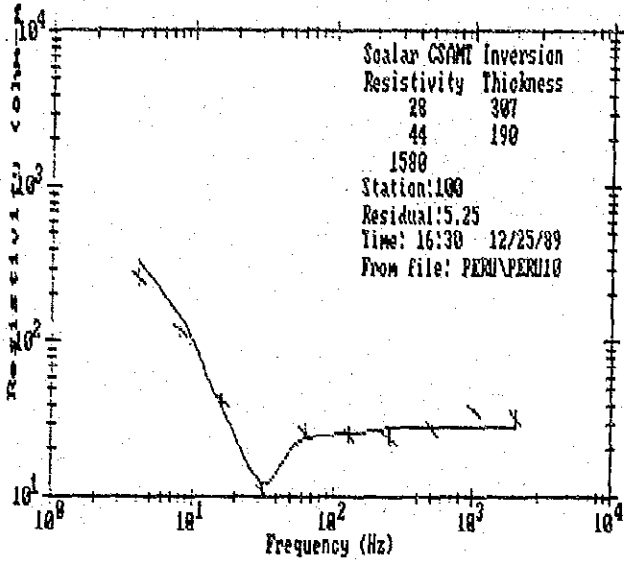
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	25	
		39
2	323	
		1779
3	3400	

NO. 99



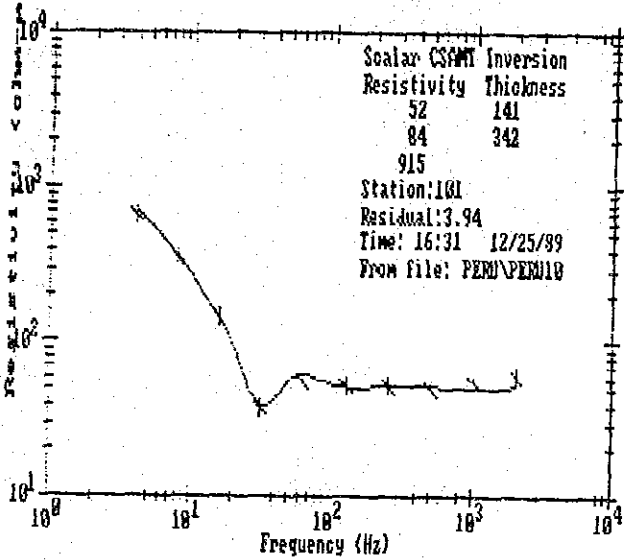
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	71	
		22
2	314	
		1872
3	V H	

NO. 100



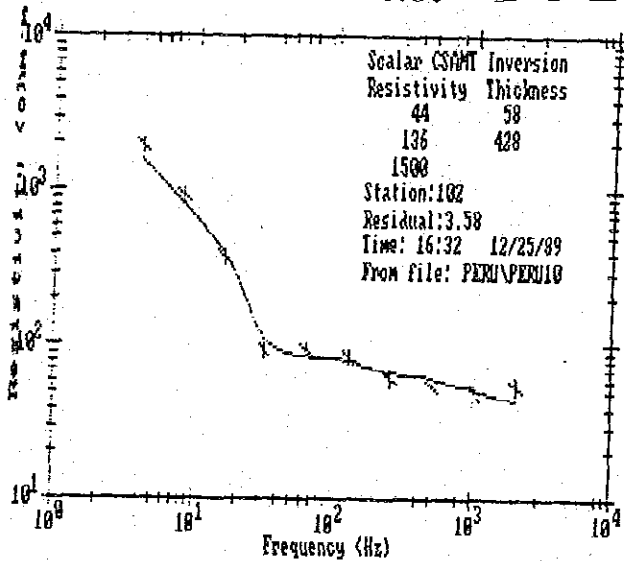
	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	28	307
2	44	497
3	1580	

NO. 101



	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	52	141
2	84	483
3	915	

NO. 102



	Resistivity( $\Omega \cdot m$ )	Depth(m)
		0
1	44	58
2	136	486
3	1500	



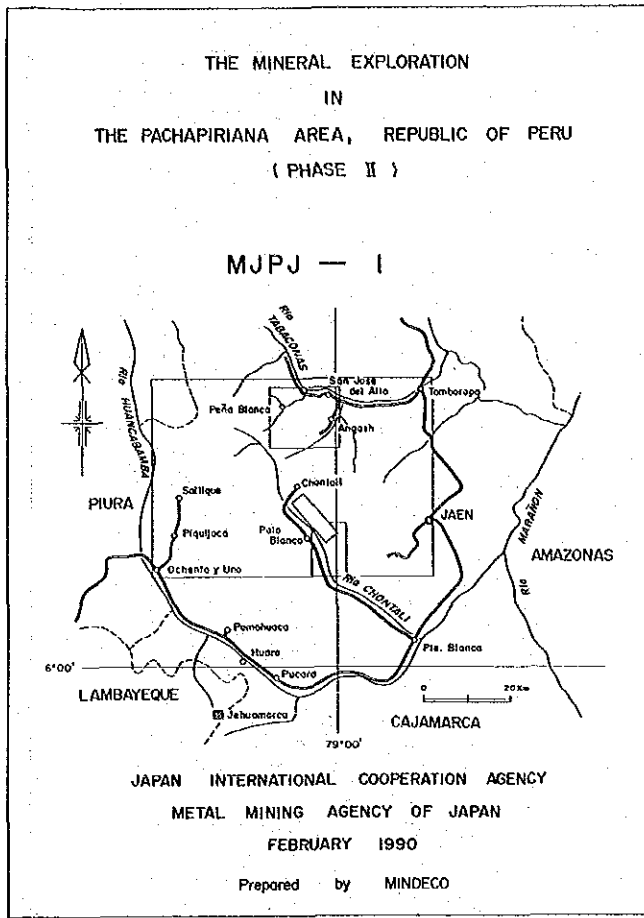




Observation	Fracture	Alteration			Mineralization			Assay						
		Sil	Arg	Chl	Py	Cp	Sp	Au g/t	Ag g/t	Cu %	Pb %	Zn %	Mo ppm	
lg chl ip-if dr Qtz Py Sp 0.3cm dr Qtz Py Sp 0.3cm		+	+											
rg chl ip-if dr Qtz Py Sp 0.4cm Arg chl if Qtz Py Sp 0.6cm Arg if		+	+											
breccia bearing clay 15cm chl laminated ip-if		+	+											
Arg if dr Qtz Py Sp 10-15cm Arg chl if Qtz Py Sp 0.1cm Qtz clay Py Sp 0.5cm clay Py Sp 0.1cm wk limo clay Py Sp 0.2cm clay Py Sp 0.2cm		+	+											
rg chl if Qtz Py Sp 1m black clay 1m dr Qtz Py Sp 0.3cm dr Qtz Py Sp 0.5cm dr Qtz Py Sp 1.2cm		+	+					1.45	0.067	14	0.03	0.07	0.42	6
rg chl ip-if		+	+					1.45	0.067	14	0.03	0.11	0.44	6
rg chl ip-if		+	+					1.2		6	0.03	0.05	0.44	11
rg chl ip-if		+	+					1.1		3	0.03	0.06	0.52	6
rg chl ip-if		+	+					1.1		4	0.02	0.03	0.41	12
rg ip-if dr Qtz Py Sp 0.5cm Qtz clay Py Sp 0.8cm		+	+											
rg chl ip-if fresh druse bearing		+	+											
dr Qtz Py Sp 0.3-0.8cm		+	+											
rg chl ip-if Qtz clay Py Sp 0.2cm		+	+											
breccia with clay, post mineralization activity		+	+											
breccia brecciated ip-if chl ip-if breccia breccia rg ip-if		+	+											
dr Qtz cherty Py cc 0.6cm Qtz clay Py cc 0.3cm		+	+											
dr Qtz chl Py Sp Gn 0.6cm rg chl ip-if Py Sp 0.4cm		+	+											
rg ip-if dr Qtz Py Sp 0.5-1.0cm		+	+					2.55	1.50	0.033	8	0.03	0.17	0.6
dr Qtz white clay Py 3.3cm dr Qtz white clay Py Sp 0.5cm dr Qtz white clay Py Sp 1cm		+	+					1.45	0.167	13	0.04	0.18	1.3	1
rg if		+	+					1.45	0.200	8	0.04	0.25	1.5	3
clay Py Sp 0.3cm clay Py Sp 0.2cm		+	+											
rg ip-if, partly elongated		+	+					4.8	1.20	0.033	9	0.03	0.23	0.7
white clay 2cm dr Qtz Py Sp 1cm		+	+					1.25		6	0.03	0.23	0.50	
dr Qtz Py Sp 0.2cm		+	+					1.15		9	0.04	0.06	0.22	1
dr Qtz Py Sp 0.2cm		+	+					1.20		8	0.04	0.20	0.59	4
dr Qtz Py Sp 0.2cm		+	+					1.20	0.455	6	0.05	0.14	0.42	3
dr Qtz Py Sp 0.2cm		+	+					1.20	0.400	11	0.05	0.27	0.9	5
breccia		+	+					1.80	0.333	8	0.05	0.15	0.7	5
dr Qtz Py Sp 0.2cm		+	+											
dr Qtz Py Sp 0.3cm		+	+											

Symbol	Depth	Observation	Fracture	Alteration			Mineralization			Assay				
				Sil	Arg	Chl	Py	Cp	Sp	Au g/t	Ag g/t	Cu %	Pb %	Zn %
	35	Qtz white clay Py Sp 0.6cm												
	50	chl Py 0.3cm												
	30	Sil Arg ip-if Qtz Py 0.3cm		+	+									
	15	Sil Arg chl ip-if		+	+									
	25	Arg chl ip-if fault breccia grey clay		+	+									
	40	Arg ip-if yellowish clay		+	+									
	60	Arg ip-if yellowish clay		+	+									
	80	Arg ip-if yellowish clay		+	+									
	100	Arg ip-if yellowish clay		+	+									
	120	Arg ip-if yellowish clay		+	+									
	140	Arg ip-if yellowish clay		+	+									
	160	Arg ip-if yellowish clay		+	+									
	180	Arg ip-if yellowish clay		+	+									
	200	Arg ip-if yellowish clay		+	+									
	220	Arg ip-if yellowish clay		+	+									
	240	Arg ip-if yellowish clay		+	+									
	260	Arg ip-if yellowish clay		+	+									
	280	Arg ip-if yellowish clay		+	+									
	300	Arg ip-if yellowish clay		+	+									

Symbol	Depth	Observation	Fracture	Alteration			Mineralization			Assay				
				Sil	Arg	Chl	Py	Cp	Sp	Au g/t	Ag g/t	Cu %	Pb %	Zn %
	0-8	Sil Arg wk chl ip-if		+	+									
	10	dr Qtz Py 0.6-1.0cm		+	+									
	12	Sil wk Arg ip-if, partly dr Qtz		+	+									
	14	dr Qtz Py 0.5cm		+	+									
	16	309.0-309.1 sample pinkish		+	+									
	18	dr Qtz Py Sp 1.2-0.8cm		+	+									
	20	dark grey clay		+	+									



Location : 9°32'26.058" N , 69°52'20.5" E  
Elevation : 3227.32 m  
Direction : — Inclinación - 90°

LEGEND

Symbol	Intensity of alteration and mineralization
[Symbol]	- weak
[Symbol]	+ moderate
[Symbol]	++ strong
[Symbol]	( ) sporadically
[Symbol]	sh shale
[Symbol]	py pyrite
[Symbol]	tf tuff or tuffaceous
[Symbol]	Cp chalcocopyrite
[Symbol]	ip-if lapilli tuff
[Symbol]	Trh tetrahedrite
[Symbol]	ip-bre tuff breccia
[Symbol]	Sp spherulite
[Symbol]	Gn galena
[Symbol]	cc chalcocite
[Symbol]	Bn bornite
[Symbol]	limo limonite or limonitized
[Symbol]	Hm hematite
[Symbol]	Hb hornblende
[Symbol]	Qtz quartz
[Symbol]	dr drusy
[Symbol]	v vein

Apx. 16 Geological Drilling Log in the Jehuamarca Area (1)

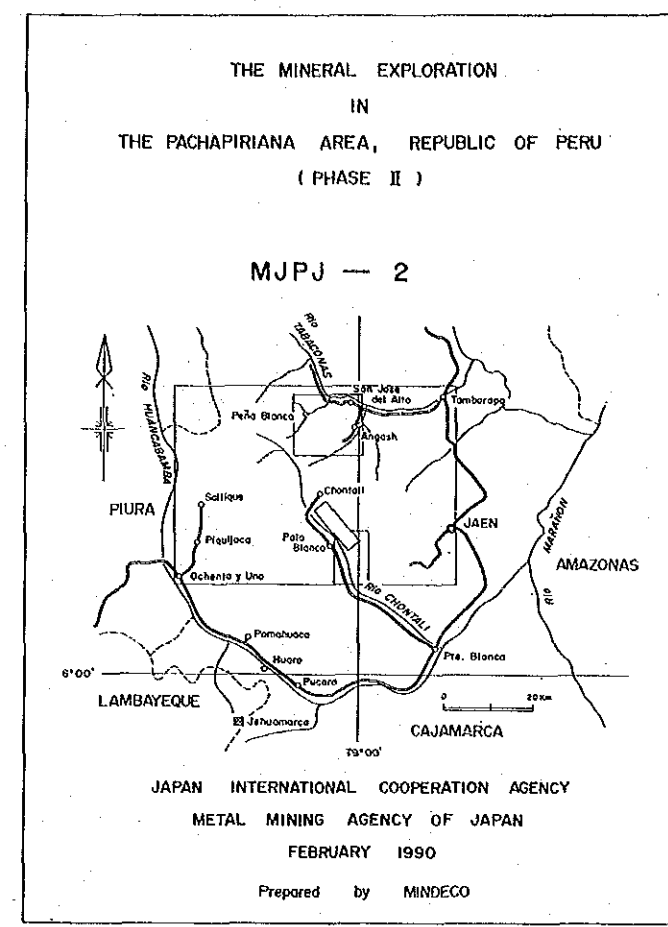




Observation	Alteration								Mineralization								Assay					
	Fracture	Sil	Arg	Chl	Ep	Py	Qtz	Sp	Py	Cp	Tch	Sp	Gn	Au g/t	Ag g/t	Cu %	Pb %	Zn %	Mn ppm			
...	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
...	+	+	+	+	+	+	+	+	+	+	+	+	+	1.10	0.90	8	0.27	0.05	0.12	10		
...	+	+	+	+	+	+	+	+	+	+	+	+	+	1.75	1.20	32.5	2.15	0.40	0.60	17		
...	+	+	+	+	+	+	+	+	+	+	+	+	+	1.15	35.4	2.42	0.60	0.40	10			
...	+	+	+	+	+	+	+	+	+	+	+	+	+	0.567	4	0.07	0.04	0.49	12			
...	+	+	+	+	+	+	+	+	+	+	+	+	+	1.65	0.633	35	0.04	0.47	1.10	14		
...	+	+	+	+	+	+	+	+	+	+	+	+	+	1.25	0.100	9	0.05	0.39	0.70	15		
...	+	+	+	+	+	+	+	+	+	+	+	+	+	0.75	0.667	6	0.04	0.43	0.3	15		
...	+	+	+	+	+	+	+	+	+	+	+	+	+	1.4	0.400	6	0.04	0.15	0.3	12		
...	+	+	+	+	+	+	+	+	+	+	+	+	+	1.4	0.555	4	0.1	0.06	0.11	4		
...	+	+	+	+	+	+	+	+	+	+	+	+	+	1.1	0.500	4	0.1	0.10	0.18	1		
...	+	+	+	+	+	+	+	+	+	+	+	+	+	1.2	0.333	9	0.1	0.27	0.8	1		
...	+	+	+	+	+	+	+	+	+	+	+	+	+	1.1	0.400	46	0.01	0.18	0.7	1		
...	+	+	+	+	+	+	+	+	+	+	+	+	+	1.1	0.400	3	0.1	0.26	0.45	13		
...	+	+	+	+	+	+	+	+	+	+	+	+	+	1.2	0.233	4	0.1	0.13	0.28	5		
...	+	+	+	+	+	+	+	+	+	+	+	+	+	1.0	0.300	4	0.01	0.15	0.4	1		
...	+	+	+	+	+	+	+	+	+	+	+	+	+	1.45	0.267	8	0.1	0.15	0.35	4		
...	+	+	+	+	+	+	+	+	+	+	+	+	+	1.7	0.633	3	0.01	0.26	0.9	2		
...	+	+	+	+	+	+	+	+	+	+	+	+	+	1.65	0.500	5	0.1	0.26	0.9	2		

Symbol	Depth	Observation	Alteration								Mineralization								Assay					
			Fracture	Sil	Arg	Chl	Ep	Py	Qtz	Sp	Py	Cp	Tch	Sp	Gn	Au g/t	Ag g/t	Cu %	Pb %	Zn %	Mn ppm			
	110	Silt wk Arg wk chf if	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
	120	dr Qtz Py Sp 0.6-1.5cm	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
	130	dr Qtz Py Sp 3-5cm	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
	140	dr Qtz Py Sp 0.1-1.0cm	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
	150	dr Qtz Py Sp 0.5cm	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
	160	dr Qtz Py Sp 0.4-1.5cm	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
	170	dr Qtz Py Sp 0.4-1.5cm	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
	180	dr Qtz Py Sp 0.3cm	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
	190	dr Qtz Py Sp 0.8cm	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				

Symbol	Depth	Observation	Alteration								Mineralization								Assay					
			Fracture	Sil	Arg	Chl	Ep	Py	Qtz	Sp	Py	Cp	Tch	Sp	Gn	Au g/t	Ag g/t	Cu %	Pb %	Zn %	Mn ppm			
	210	dr Qtz Py Sp 0.2cm	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
	220	dr Qtz Py Sp 0.3cm	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
	230	dr Qtz Py Sp 0.2cm	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
	240	dr Qtz Py Sp 0.2-0.5cm	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
	250	dr Qtz Py Sp 0.2cm	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
	260	dr Qtz Py Sp 0.3cm	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
	270	dr Qtz Py Sp 0.2cm	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
	280	dr Qtz Py Sp 0.2cm	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
	290	dr Qtz Py Sp 0.2-0.5cm	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				



Location : 9°325,980N , 695,274E  
Elevation : 3229.39m  
Direction 135° Inclinacion -75°

LEGEND

Symbol	Intensity of alteration and mineralization
sh	shale
tf	tuff or tuffaceous
lp-tf	lapilli tuff
tf-br	tuff breccia
sh	shale
py	pyrite
Cp	chalcocopyrite
Tch	tetrahedrite
Sp	sphalerite
Gn	galena
cc	chalcocite
Bn	bornite
limo	limonite or limonitized
Hm	hematite
Hb	hornblende
Qtz	quartz
dr	drusy
v	vein







Apx. 16 Miscellaneous Data for the Drilling Survey (1)

List of the Used Equipment for Drilling

Item	Model	Quantity	Capacity, Type and Specification
Drilling Machine	L-38	1	Capacity NQ : 575 m BQ : 725 m Inner Diameter of Spindle : 76 mm Weight (except engine)
Engine for Drill	GMG	1	Diesel Engine 2,200 rpm / 102 ps
Pump	BEAM	2	Piston $\phi$ 68 mm Capacity 18~137 liter/min Pressure 46 kg/min
Engine for Pump	BOSCH	2	Diesel Engine 2,200 rpm / 33 ps
Generator	BRIGGSTRATON	2	5 kVA 220 v
Engine for Generator		2	Diesel Engine 1,800 rpm / 8.5 ps
Mud Mixer	SRENKA	1	Volume 100 liter 800 ~ 1,000 rpm / min
Derrick	LONGYEAR	1	
Rod Holder	LONGYEAR	1	
Drill Rods	HQ-WL	70	3.00 m/pc
	NQ-WL	100	3.00 m/pc
	BQ-WL	150	3.00 m/pc
Casing Pipes	HW	12	1.50 m/pc
	NW	70	3.00 m/pc
	BW	100	3.00 m/pc
Core Tube Assembly	HQ-WL	2	1.50 m
	NQ-WL	2	1.50 m
	BQ-WL	2	1.50 m
Innertube Assembly	HQ-WL	2	1.50 m
	NQ-WL	2	1.50 m
	BQ-WL	2	1.50 m



Ap. 17 Miscellaneous Data for the Drilling Survey (2)

Articles of Consumption and Drilling Parts

Item	Specification	Unit	Quantity		
			MJPJ-1	MJPJ-2	MJPJ-3
Light Oil		liter	4,000	2,320	1,760
Gasolin Oil		liter	2,645	1,760	1,060
Hydraulic Oil		liter	50	80	10
Drilling Oil		liter	240	47	50
Grease		kg	60	30	50
Mobil Oil		liter	120	60	20
Bentonite	23 kg/bag	bag	123	30	55
CMC		kg	55	16	26
Cement	47 kg/bag	bag	33	5	5
Tel-Stop		kg	60	80	120
Single Core Tube	116 mm×0.5 m	set	1		
Wireline Core Barrel	HQ×1.7	set		1	
Wireline Core Barrel	NQ×1.7	set		1	
Wireline Core Barrel	BQ×1.7	set		1	
Inner Tube Assembly	HQ×1.7	set		1	
Inner Tube Assembly	NQ×1.7	set		1	
Inner Tube Assembly	BQ×1.7	set		1	
Outer Tube	HQ×1.7	set		1	
Outer Tube	NQ×1.7	set		1	
Outer Tube	BQ×1.7	set		1	
Inner Tube	HQ×1.7	set		1	
Inner Tube	NQ×1.7	set		1	
Inner Tube	BQ×1.7	set		1	
Casing Diamond Shoe	HW	pc	1	1	1
Casing Diamond Shoe	NW	pc	1	1	1
Casing Diamond Shoe	BW	pc	1	1	1
Core Box	HQ	pc	44	31	31
Core Box	NQ	pc	23	26	13
Core Box	BQ	pc	11	13	4
Wire Rope	6 mm×500 m	roll	1		
Wire Rope	12 mm×90 m	roll	1		
Manila Rope	18 mm×100 m	roll		1	
Pump Packing		pc			1
Valve Steel Ball	38.1 φ	pc			1
Piston Rod		pc			1
Guide Pipe	HQ	pc		1	
Guide Pipe	NQ	pc		1	
Guide Pipe	BQ	pc		1	
Guide Coupling	HQ	pc		1	
Guide Coupling	NQ	pc		1	
Guide Coupling	BQ	pc		1	
Suctin Hose		pc			1
Water Swivel Packing		pc			1
Water Swivel Spindle		pc			1
V Belt		pc	1		
Core Lifter	HQ	pc	3	3	3
Core Lifter	NQ	pc	1	2	2
Core Lifter	BQ	pc	2	2	1
Core Lifter Case	HQ	pc	3	3	3
Core Lifter Case	NQ	pc	2	2	2
Core Lifter Case	BQ	pc	1	2	1

Apx. 17 Miscellaneous Data for the Drilling Survey (3)

Drilling Meterage of Diamond Bits

Item	Size	Type	Bit No.	Drilling Meterage by Drill Hole. Unite Meter			Total
				MJPJ-1	MJPJ-2	MJPJ-3	
Bit	116 mm	116 mm	70001	2.95			2.95
			Total	2.95			2.95
	NC	HQ	63601		33.25		33.25
			63602		33.45		33.45
			63603		37.70		37.70
			63604	39.55			39.55
			63605	42.10			42.10
			63606	31.90			31.90
			63607	33.75			33.75
			63608			56.30	56.30
			63609			54.30	54.30
	Total	147.30	104.40	110.60	362.30		
	NX	NQ	51617		28.90		28.90
			51618		65.90		65.90
			51619		26.85		26.85
			51620	42.10			42.10
			51621	37.90			37.90
			51622	15.40			15.40
			51623			39.00	39.00
			51624			20.05	20.05
			Total	95.40	121.65	59.05	276.10
	BX	BQ	40963		42.05		42.05
			40964		31.90		31.90
			40965	38.90			38.90
			40966	31.70			31.70
			40967	0.00			0.00
			40968			30.35	30.35
			Total	70.60	73.95	30.35	174.90

Apx. 17 Miscellaneous Data for the Drilling Survey (4)

Operational Results of Drill Hole, MJPJ-1

Working Period	Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers		
	Preparation	22. Oct. '89 ~ 6. Dec. '89		11	11	—	232	
Drilling	24. Oct. '89 ~ 7. Dec. '89		35.5	32.5	3	697		
Removing	7. Oct. '89 ~ 7. Dec. '89		0.5	0.5	—	11		
Total	22. Oct. '89 ~ 7. Dec. '89		47	44	3	940		
Drilling Length	Planned Length	400.00 m	Over-burden	2.95 m	Core Recovery for each 100m section			
	Increase or Decrease in Length	-83.75 m	Core Length	311.75 m	Depth of Hole	Section	Total	
	Length Drilled	316.25 m	Core Recovery	98.58 %	0~100 m	95.5%		
Working Time	Drilling	198h	23.6%	22.5%	100~200 m	100%	97.8%	
	Hoisting & Lowering Rod	65h	7.7%	7.4%	200~300 m	100%	98.5%	
	Hoisting & Lowering I.T.	103h	12.3%	11.7%	300~316.25m	100%	98.58%	
	Miscellaneous	133h	15.8%	15.1%	Efficiency of Drilling			
	Repairing	253h	30.1%	28.8%	316.25 m/Working Period		6.7m/day	
	Others	88h	10.5%	10.0%	316.25 m/Working Days		7.1m/day	
	Total	840h	100.0%	95.5%	316.25 m/Drilling Period		8.9m/day	
	Removing	Preparation	32h	—	3.6%	316.25 m/Net Drilling Days		9.7m/day
		Moving	8h	—	0.9%	Total Workers		
	G. Total	880h	—	100.0%	/ 316.25 m		2.97Man/m	
Casing Pipe Inserted	Pipe Size & Meterage	Inserted Length / Drilling Length	Recovery of Casing Pipe	Total Drilling Workers / 316.25 m		2.2 Man/m		
	HW 10.85 m	3.4%	100.0%	Hoisting & Lowering Rod	65 Times	Hoisting & Lowering I.T.	103 Times	
	NW 150.25 m	47.5%	100.0%	Remarks				
	BW 245.65 m	77.7%	61.2%	G : Grand I.T. : Inner Tube				

Apx. 17 Miscellaneous Data for the Drilling Survey (5)

Operational Results of Drill Hole, MJPJ-2

Working Period	Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers	
	Preparation	23. Jul. '89~27. Sep. '89		65.5	19.5	46	1,055
Drilling	26. Sep. '89~20. Oct. '89		24.5	24.5	—	518	
Removing	21. Oct. '89~21. Oct. '89		1	1	—	21	
Total	23. Jul. '89~21. Oct. '89		91	45	46	1,594	
Drilling Length	Planned Length	300.00 m	Over-burden	—	Core Recovery for each 100m section		
	Increase or Decrease in Length	—	Core Length	296.30 m	Depth of Hole	Section	Total
	Length Drilled	300.00 m	Core Recovery	98.77 %	0~100 m	96.8%	
Working Time	Drilling	200h	34.2%	31.6%	100~200 m	100%	98.4%
	Hoisting & Lowering Rod	44h	7.5%	7.0%	200~300 m	99.5%	98.77%
	Hoisting & Lowering I.T.	106h	18.2%	16.8%			
	Miscellaneous	114h	19.5%	18.0%	Efficiency of Drilling		
	Repairing	32h	5.5%	5.1%	300.00 m/Working Period		3.29m/day
	Others	88h	15.1%	13.9%	300.00 m/Working Days		6.66m/day
	Total	584h	100.0%	92.4%	300.00 m/Drilling Period		12.24m/day
	Removing	Preparation	40h	—	6.3%	300.00 m/Net Drilling Days	
	Moving	8h	—	1.3%	Total Workers		
G. Total	632h	—	100.0%	/ 300.00 m		5.31Man/m	
Casing Pipe Inserted	Pipe Size & Meterage	Inserted Length / Drilling Length	Recovery of Casing Pipe	Total Drilling Workers / 300.00 m		1.72Man/m	
	HW 7.40 m	2.5%	100.0%	Hoisting & Lowering Rod	44 Times	Hoisting & Lowering I.T.	106 Times
	NW 104.40 m	34.8%	100.0%	Remarks			
	BW 226.05 m	75.4%	100.0%	G : Grand I.T. : Inner Tube			

**Apx. 17 Miscellaneous Data for the Drilling Survey (6)**

Operational Results of Drill Hole, MJPJ-3

Working Period	Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers	
	Preparation	8. Dec. '89~11. Dec. '89		4	4	—	112
Drilling	12. Dec. '89~22. Dec. '89		11	11	—	275	
Removing	23. Dec. '89~23. Dec. '89		1	1	—	25	
<b>Total</b>	<b>8. Dec. '89~23. Dec. '89</b>		<b>16</b>	<b>16</b>	<b>—</b>	<b>412</b>	
Drilling Length	Planned Length	200.00 m	Overburden	—	Core Recovery for each 100m section		
	Increase or Decrease in Length	—	Core Length	189.45 m	Depth of Hole	Section	Total
	Length Drilled	200.00 m	Core Recovery	94.72 %	0~100 m	96.4%	96.4%
					100~200 m	93.05%	94.7%
Working Time	Drilling	120h	46.9%	34.1%			
	Hoisting & Lowering Rod	22h	8.6%	6.3%			
	Hoisting & Lowering I.T.	55h	21.5%	15.6%			
	Miscellaneous	59h	23.0%	16.7%	Efficiency of Drilling		
	Repairing	—	0.0%	0.0%	200.00 m/Working Period	12.5m/day	
	Others	—	0.0%	0.0%	200.00 m/Working Days	12.5m/day	
	<b>Total</b>	<b>256h</b>	<b>100%</b>	<b>72.7%</b>	200.00 m/Drilling Period	18.2m/day	
	Removing	Preparation	32h	—	9.1%	200.00 m/Net Drilling Days	18.2m/day
	Moving	64h	—	18.2%	Total Workers		
	<b>G. Total</b>	<b>352h</b>	<b>—</b>	<b>100.0%</b>	/ 200.00 m	2.06Man/m	
Casing Pipe Inserted	Pipe Size & Meterage	Inserted Length / Drilling Length	Recovery of Casing Pipe	Total Drilling Workers / 200.00 m			1.38Man/m
	HW 4.50 m	2.3%	100.0%	Hoisting & Lowering Rod	22 Times	Hoisting & Lowering I.T.	55 Times
	NW 110.60 m	55.3%	100.0%	Remerks			
	BW 169.65 m	84.8%	100.0%	G : Grand I.T. : Inner Tube			



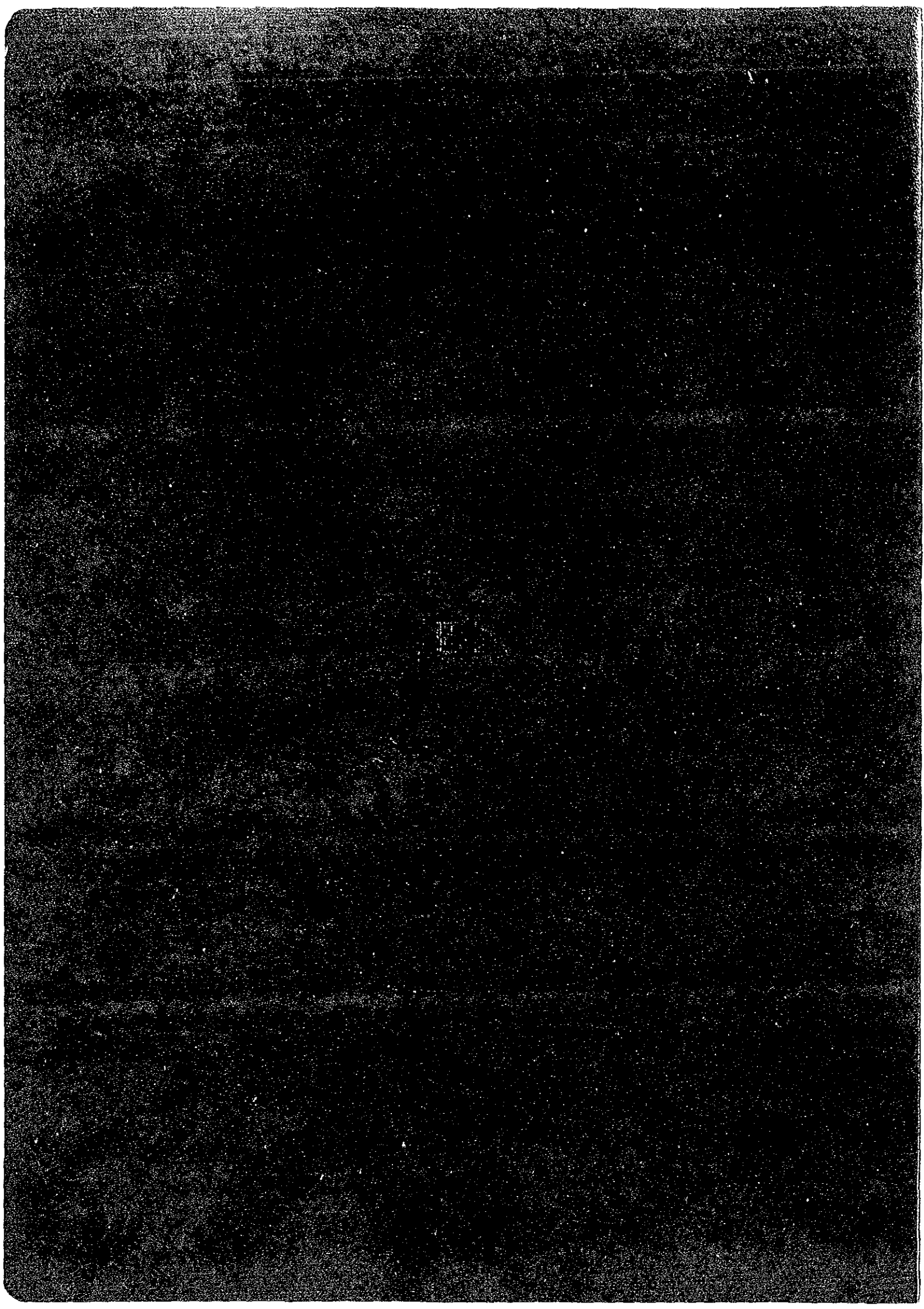


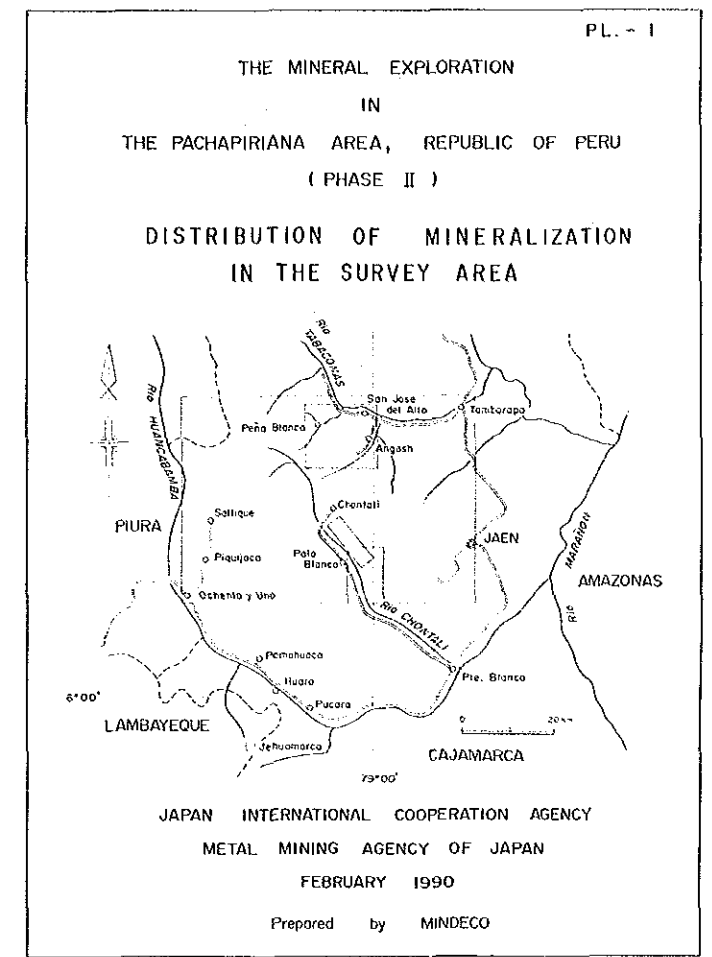
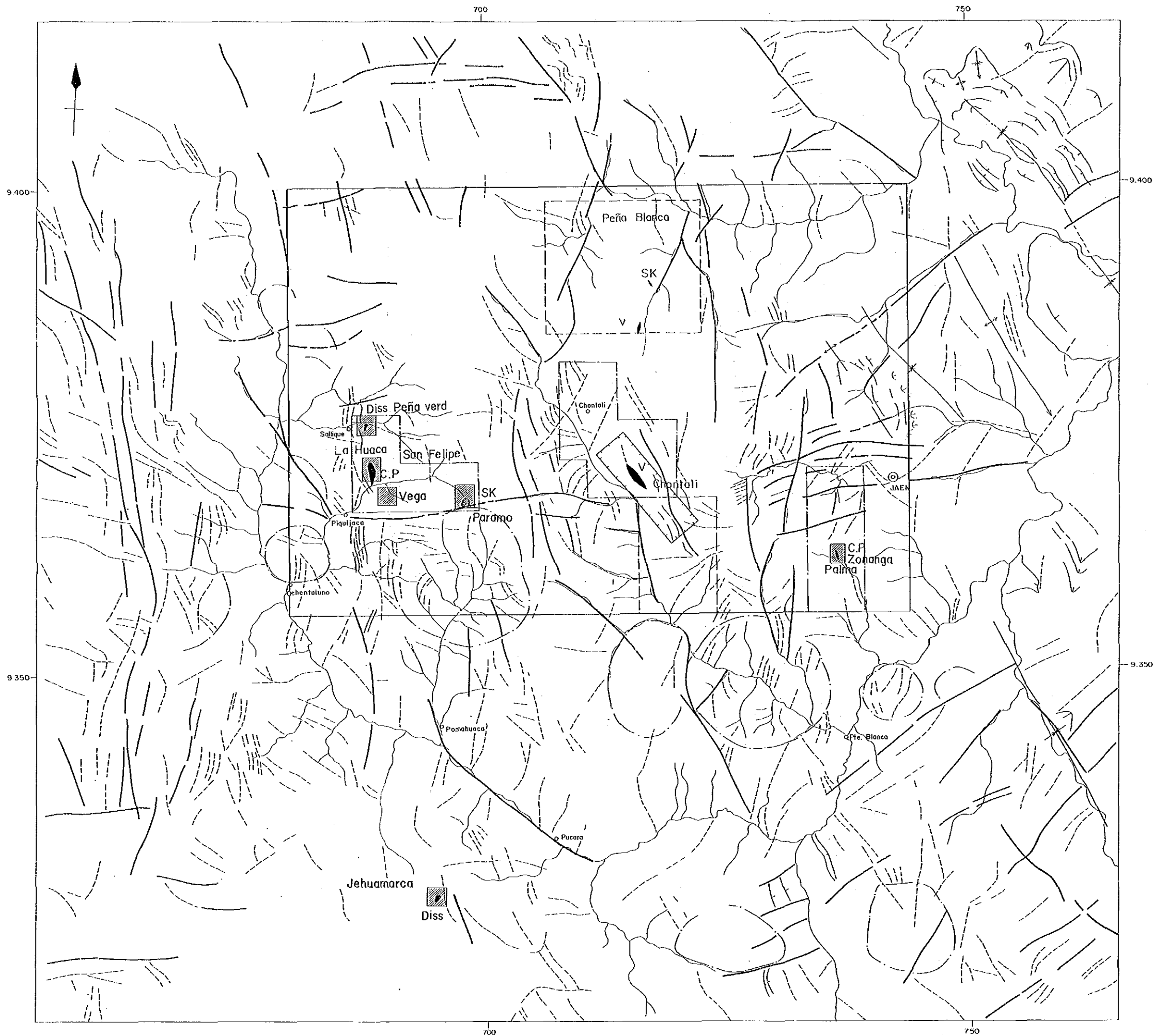






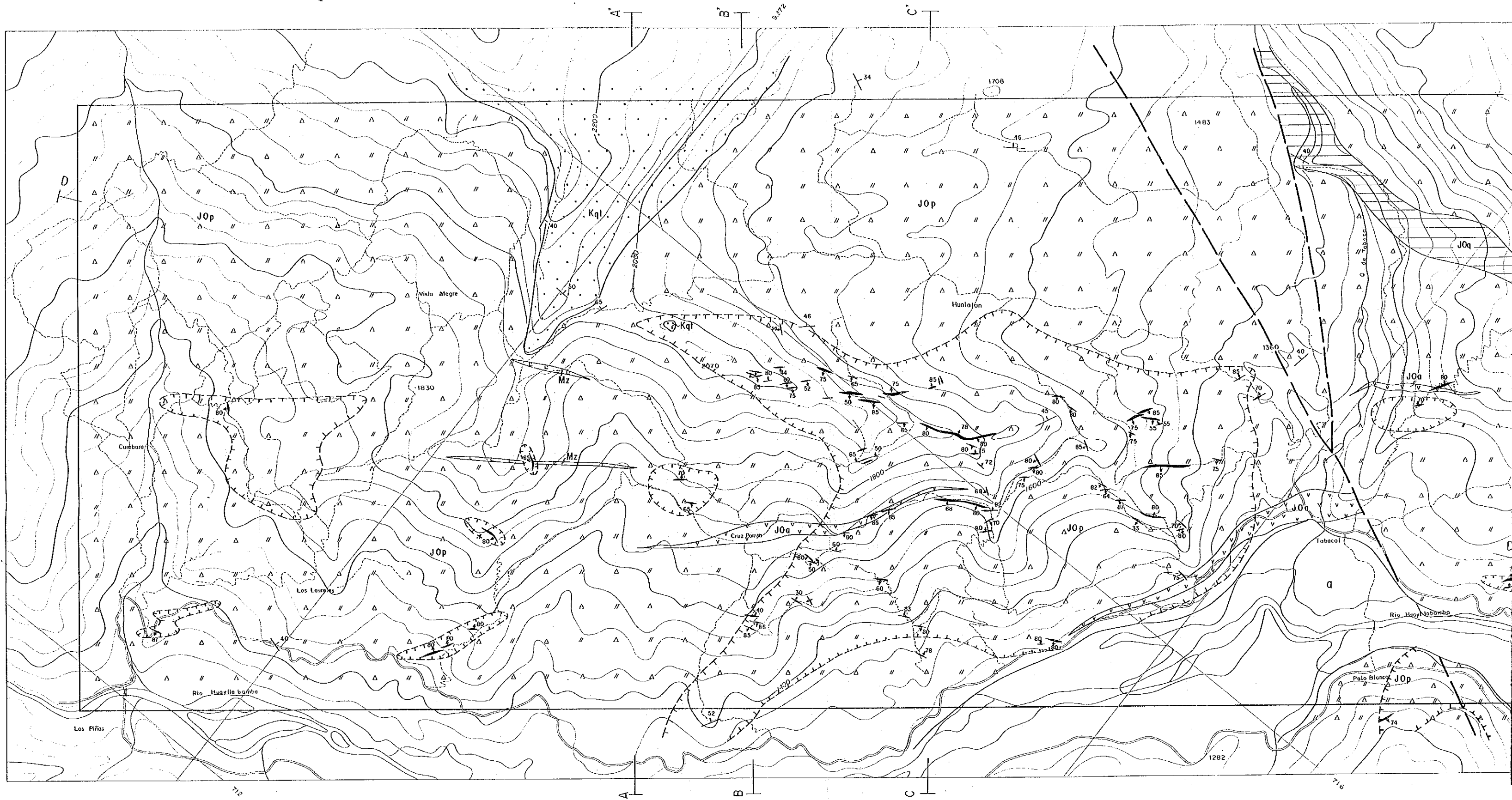


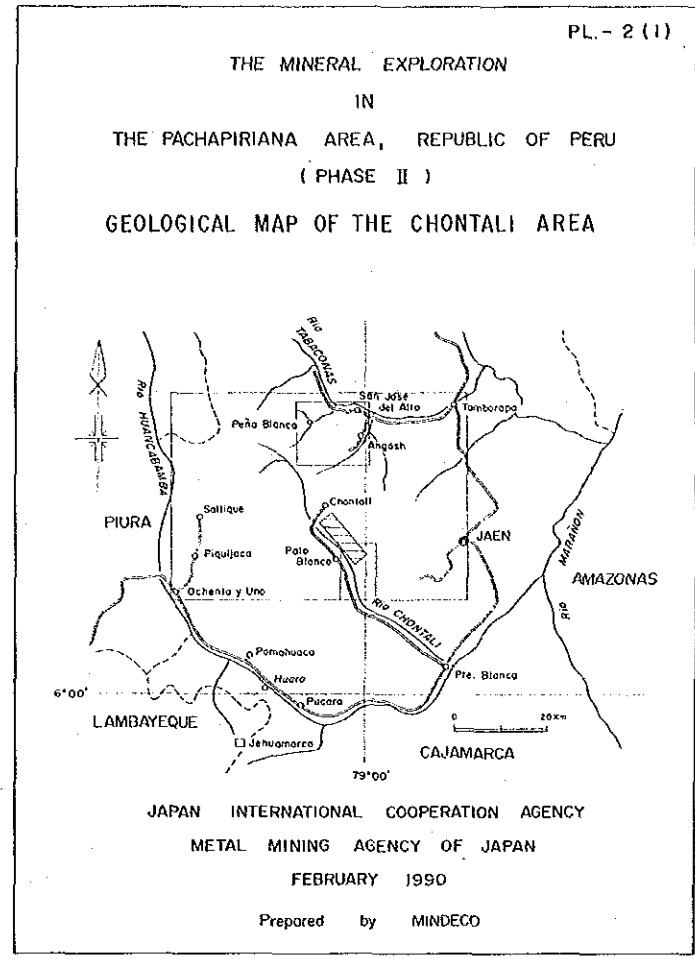
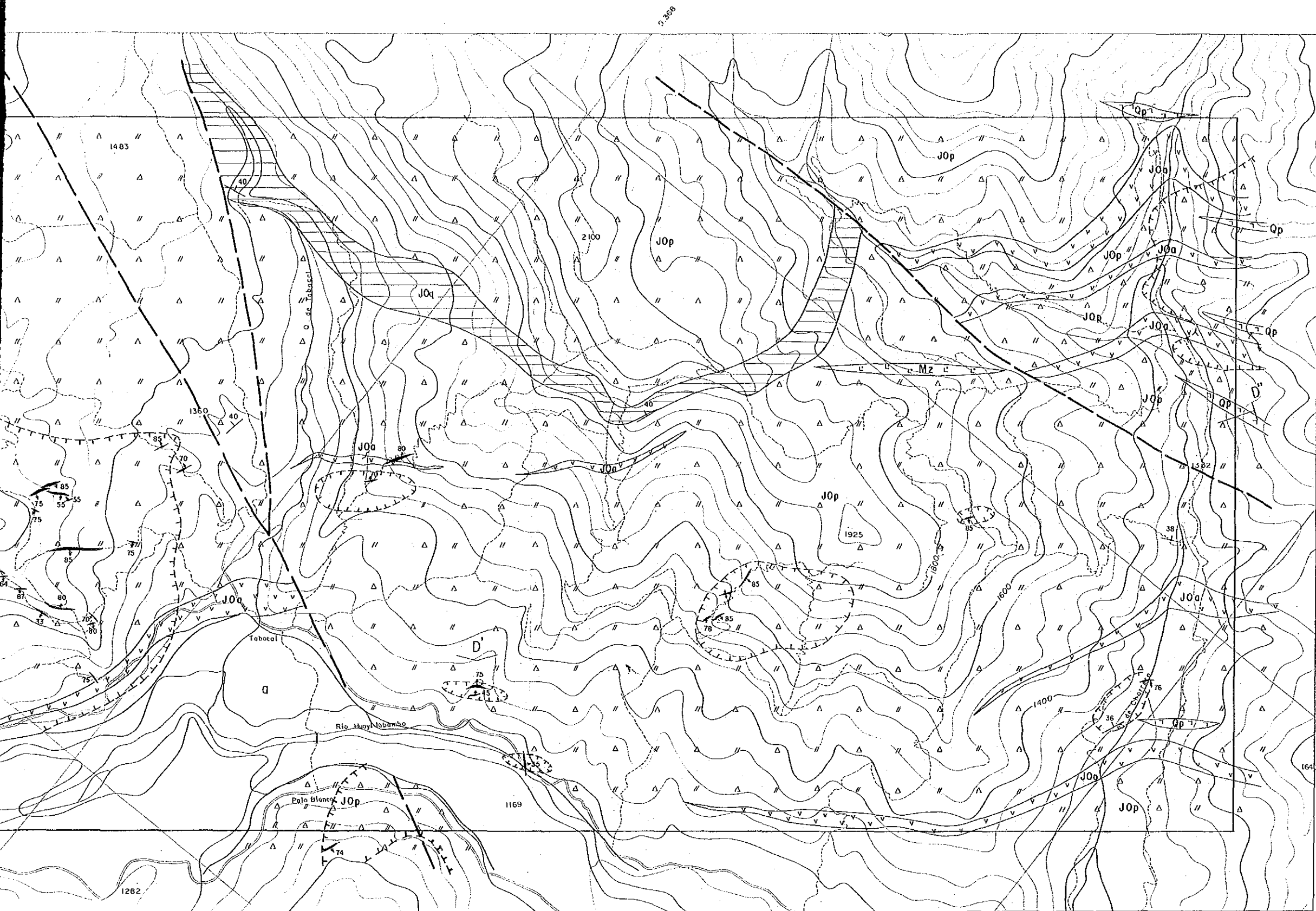




LEGEND

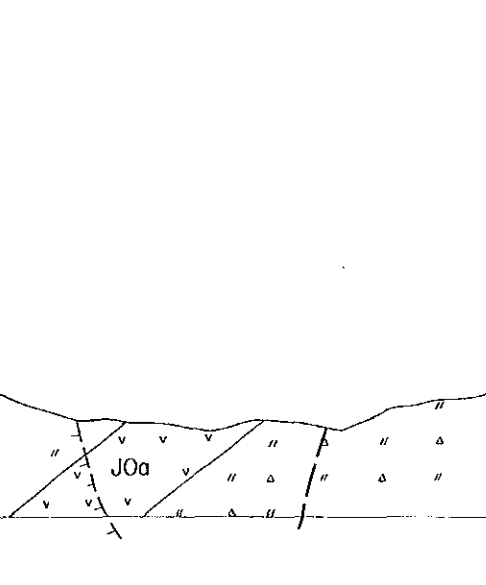
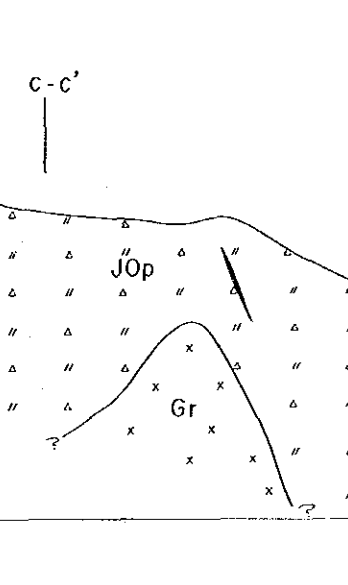
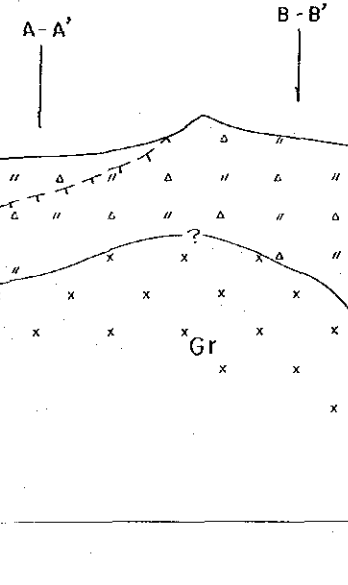
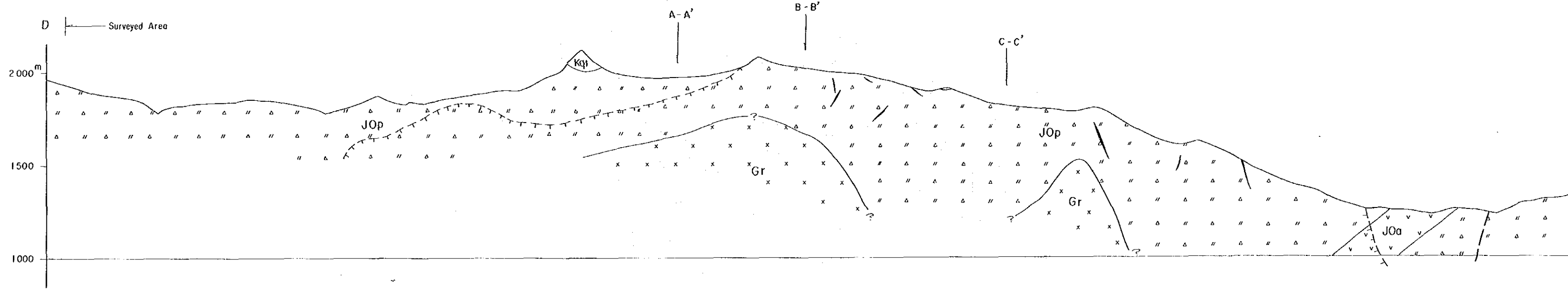
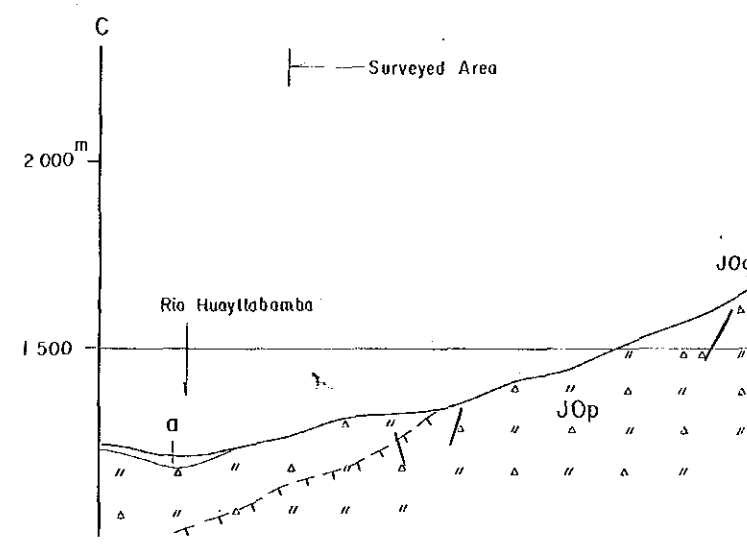
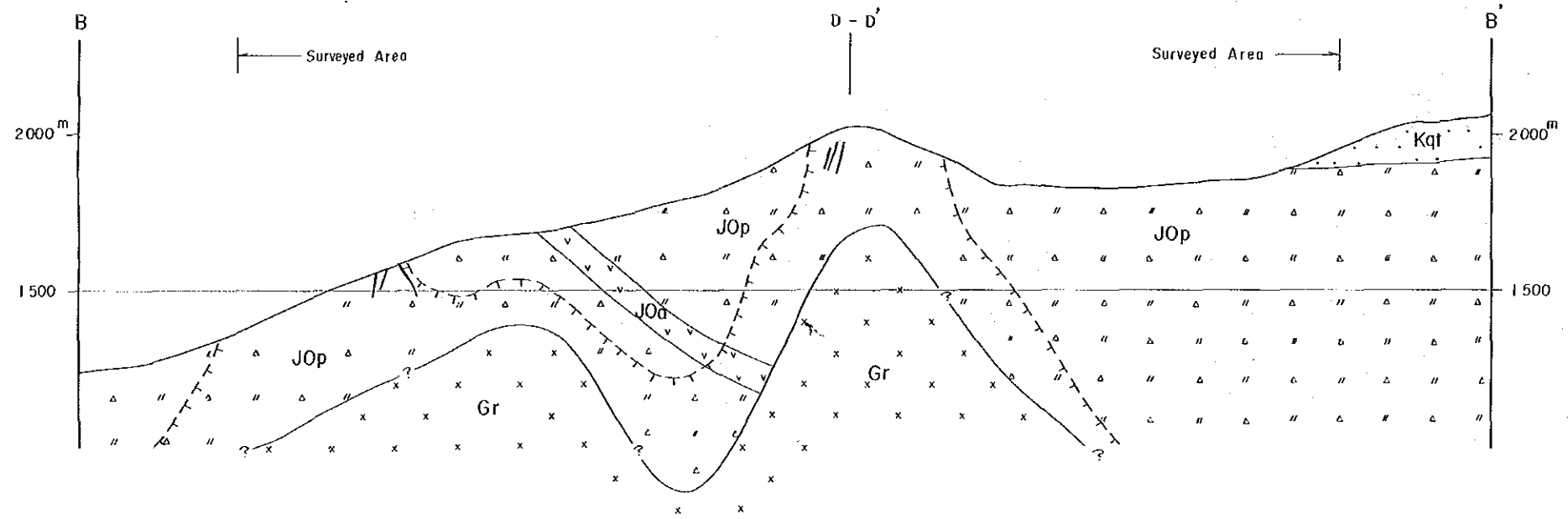
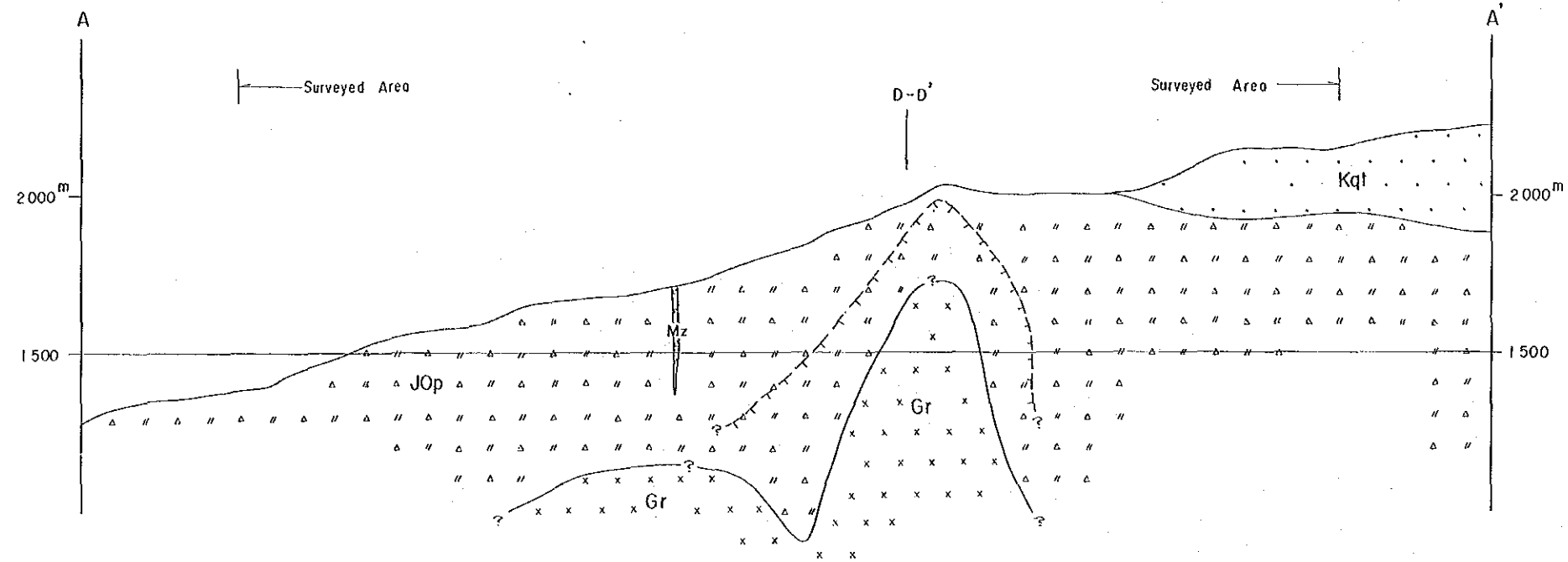
- MAJOR LINEAMENTS
- MINOR LINEAMENTS
- CIRCULAR FEATURE
- BEDDING
- ANTICLINAL AXIS
- SYNCLINAL AXIS
- Pachapiriana Project Area
- Detailed Survey Area in 1988
- Semidetailed Survey Area in 1988
- Detailed Survey Area in 1989
- Semidetailed Survey Area in 1989
- Mineral Indication
- C.P. : Porphyry Copper Type
- Diss : Dissemination of Base Metal Type
- V : Vein Type
- Sk : Skarn Type



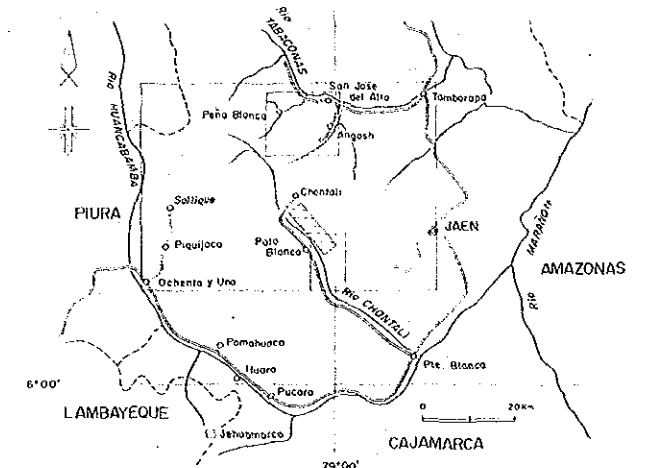


**LEGEND**

Quaternary	Alluvium		a	Gravel, Sand
Cretaceous	Goyllarisquizga		GP	Quartzite
Jurassic	Oyotun Vol.		JOq	Sandstone, Quartzite, Slate
			JOp	Tuff, Lapilli Tuff, Tuff Breccia
Triassic			JOa	Andesite
Intrusives			Mz	Monzonite
			Qp	Quartz Porphyry
Alteration				Silicified Zone or Silicified Zone with Argillization
Others				Quartz Vein
				Fault
				Bedding



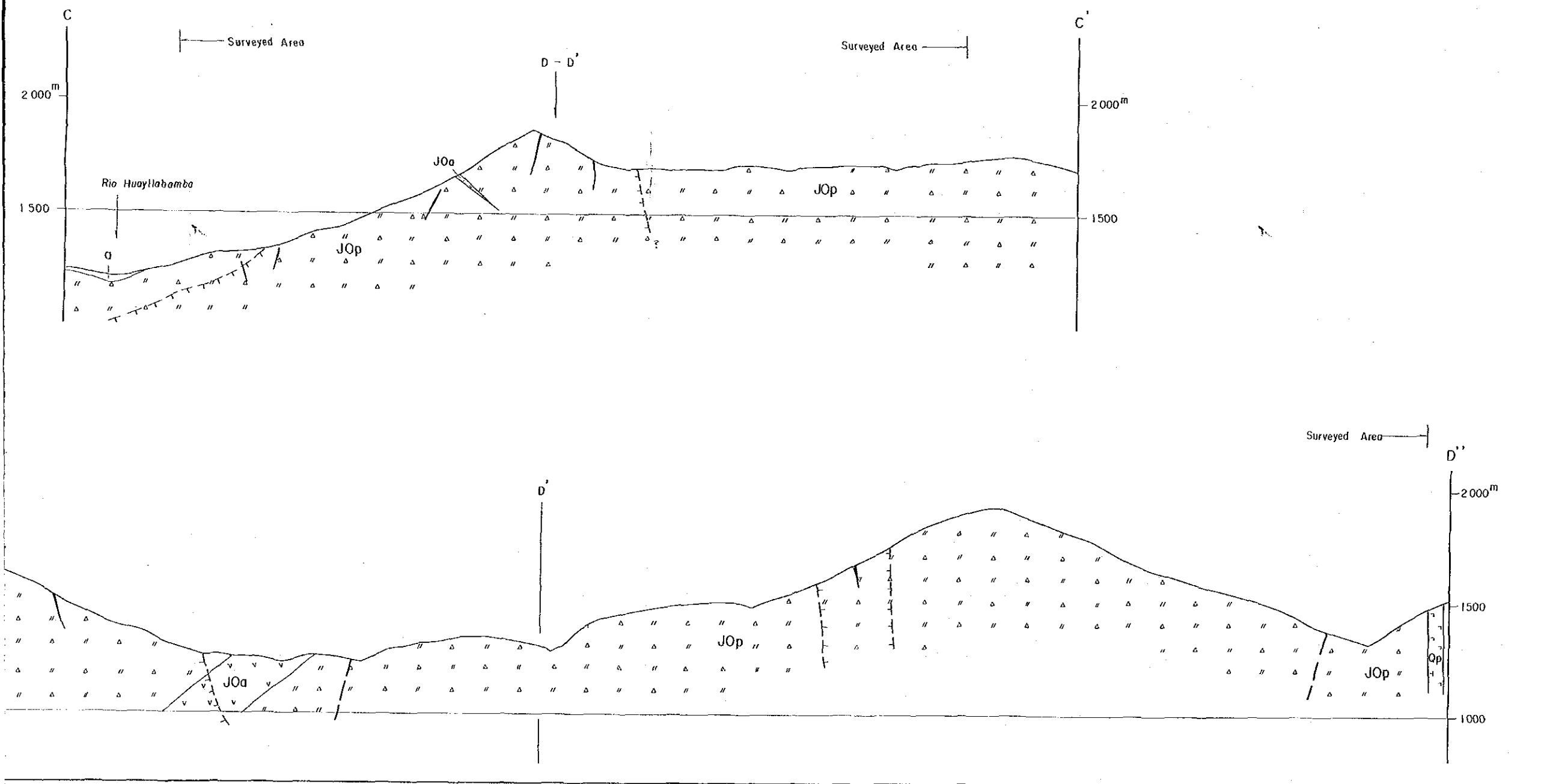
THE MINERAL EXPLORATION  
IN  
THE PACHAPIRIANA AREA, REPUBLIC OF PERU  
( PHASE II )  
GEOLOGICAL PROFILES OF THE CHONTALI AREA



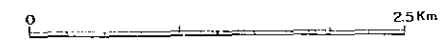
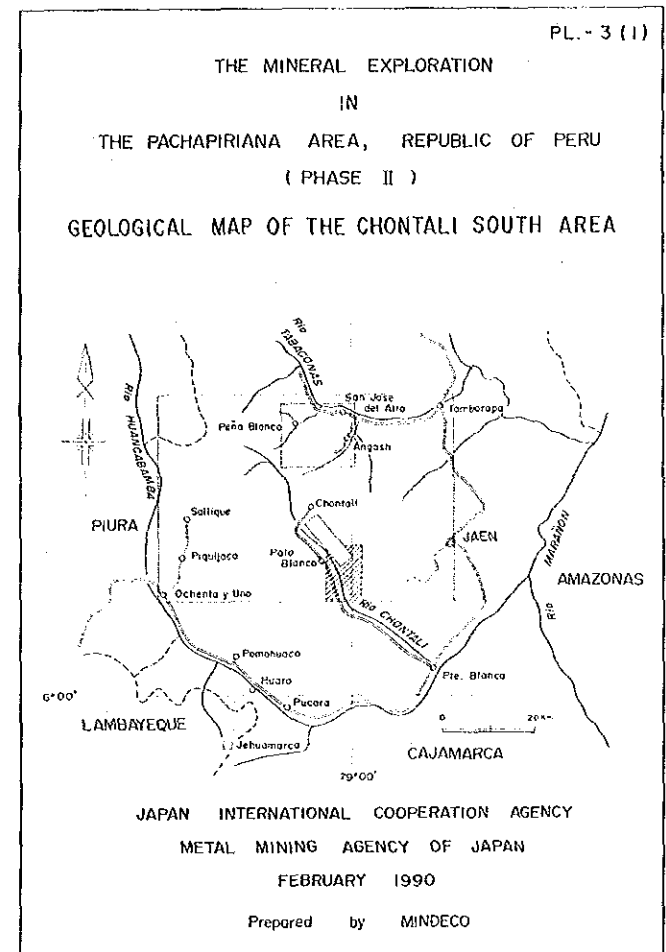
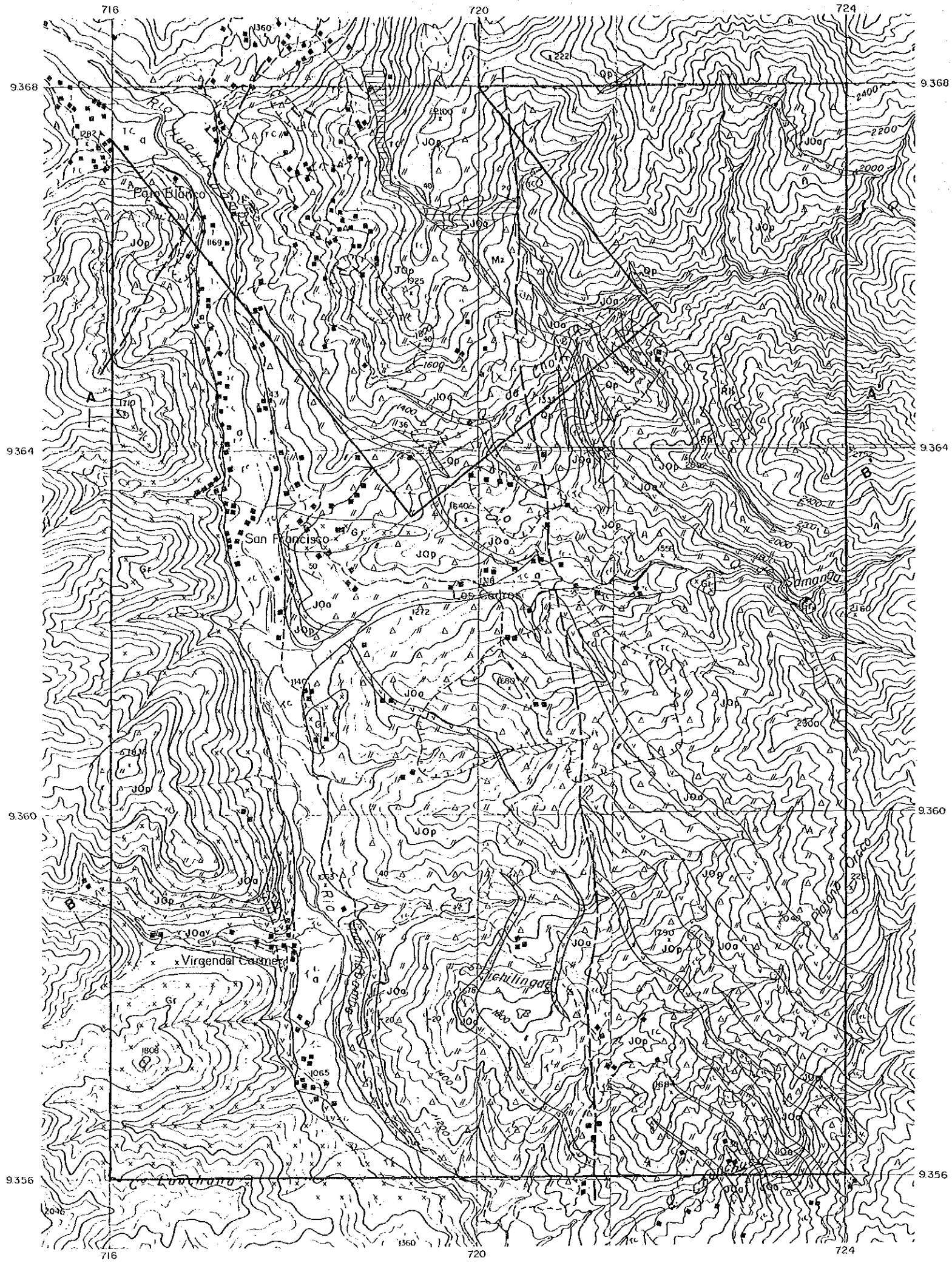
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METAL MINING AGENCY OF JAPAN  
FEBRUARY 1990  
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LEGEND

Quaternary	Alluvium	a	Gravel, Sand
Cretaceous	Goylla-risquizga	GP	Quartzite
Jurassic	Oyotun Vol.	JOq	Sandstone, Quartzite, Shale
		JOp	Tuff, Lapilli Tuff, Tuff Breccio
Triassic		JOa	Andesite
Intrusives		Mz	Monzonite
		Qp	Quartz Porphyry
Alteration			Silicified Zone or Silicified Zone with Argillization
Others			Quartz Vein
			Fault
			Bedding



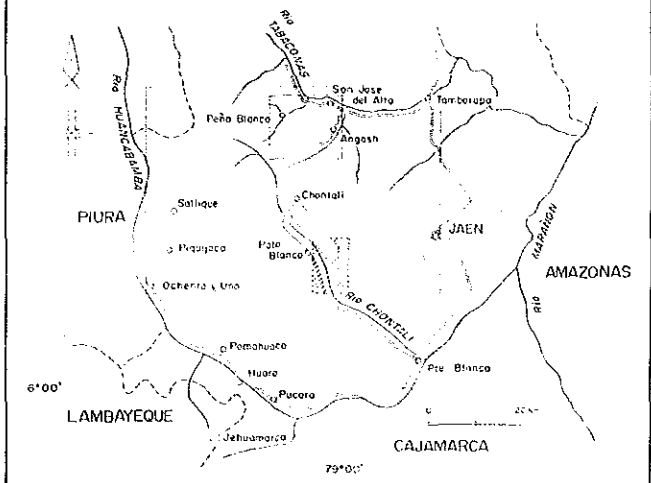
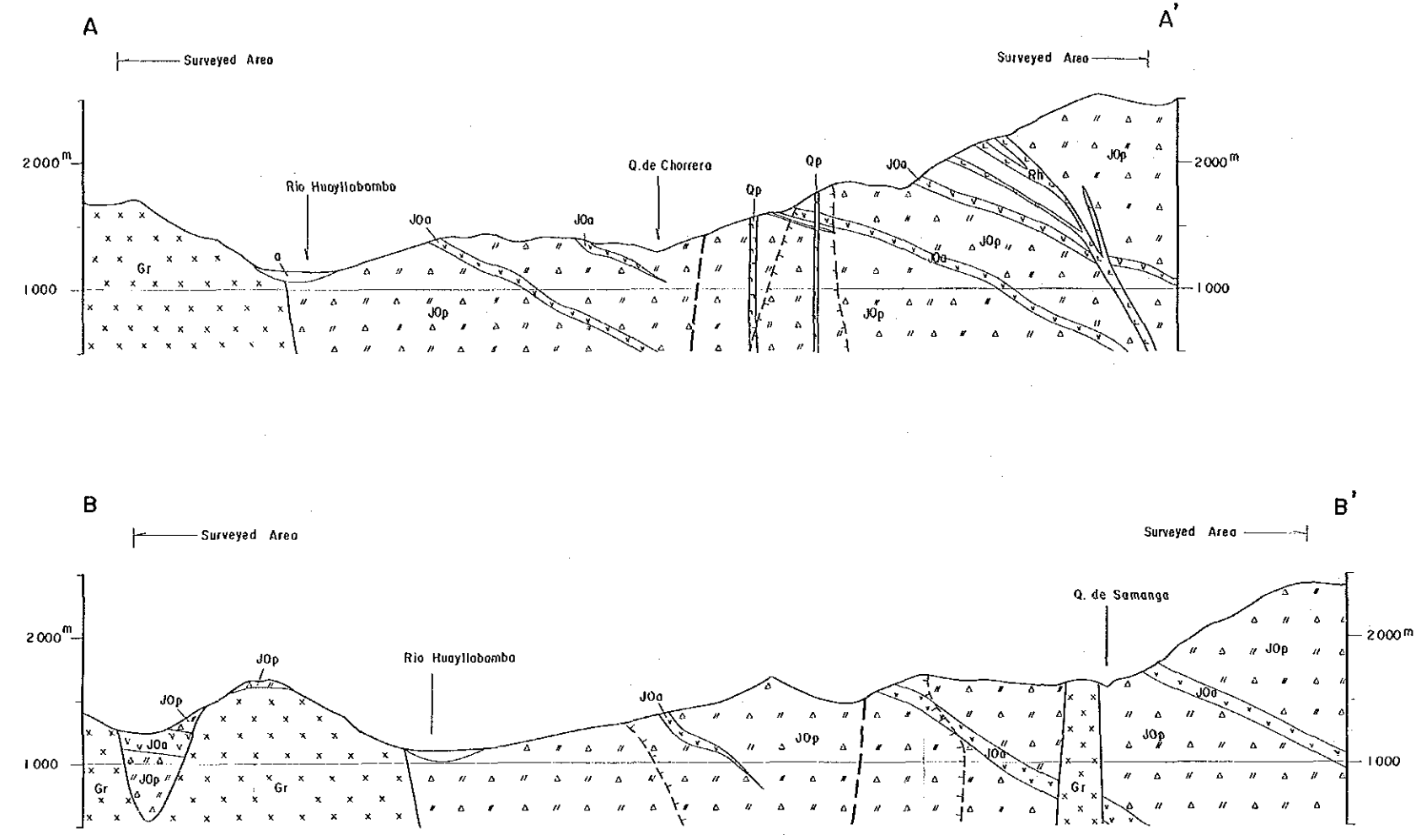




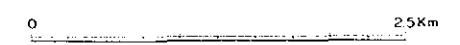
**LEGEND**

Quaternary	Alluvium		d
Jurassic	Oyotun vol.		JOq Sandstone, Quartzite, Shale
			JOp Tuff, Lapilli Tuff, Tuff Breccio
Triassic			JOa Andesite
<b>Intrusives</b>			
			Rh Rhyolite
			Qp Quartz Porphyry
			Mz Monzonite
			Gr Granodiorite, Granite
<b>Alteration</b>			
			Silicified Zone or Silicified Zone with Argillization
<b>Others</b>			
			Quartz Vein
			Bedding
			Fault

THE MINERAL EXPLORATION  
IN  
THE PACHAPIRIANA AREA, REPUBLIC OF PERU  
( PHASE II )  
GEOLOGICAL PROFILES OF THE CHONTALI SOUTH AREA

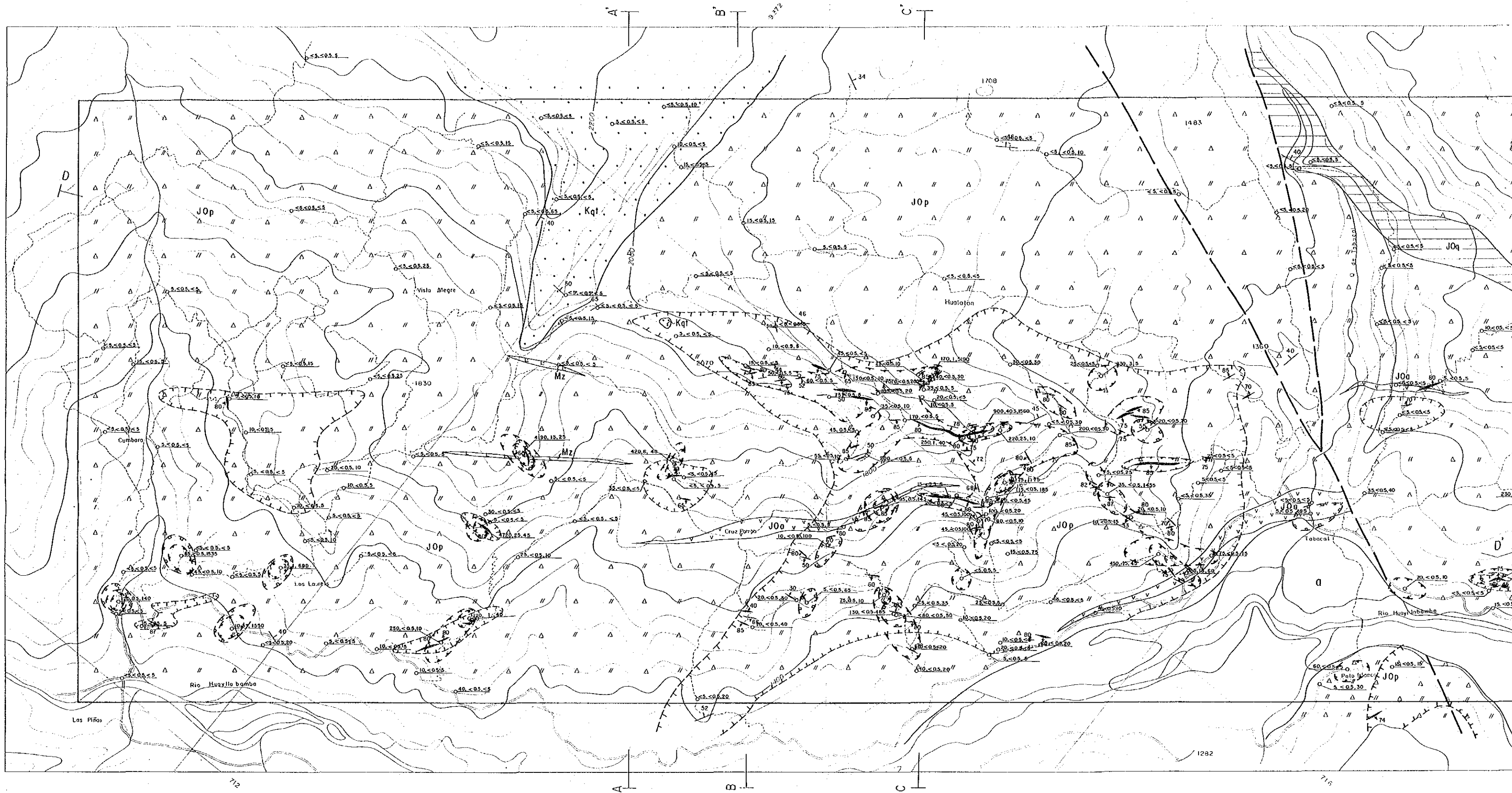


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METAL MINING AGENCY OF JAPAN  
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LEGEND

Quaternary	Alluvium		a
Jurassic	Oyotun vol.		J0q Sandstone, Quartzite, Shale
			J0p Tuff, Lapilli Tuff, Tuff Breccia
			J0a Andesite
Triassic	Intrusives		Rh Rhyolite
			Qp Quartz Porphyry
			Mz Monzonite
			Gr Granodiorite, Granite
Alteration			Silicified Zone or Silicified Zone with Argillization
Others			Quartz Vein
			Fault

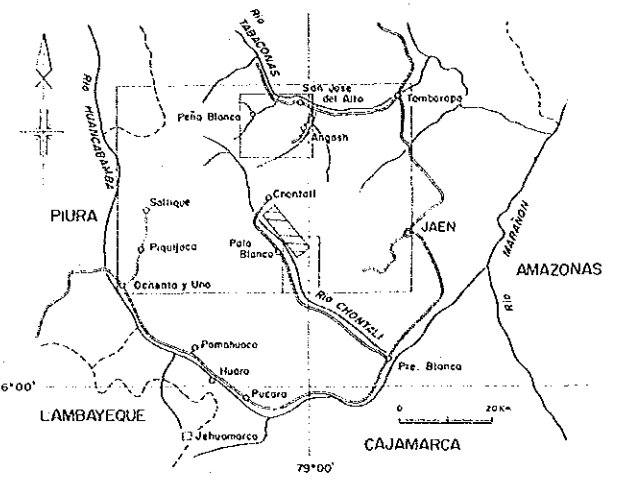


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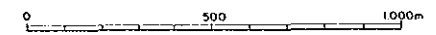
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715

THE MINERAL EXPLORATION  
IN  
THE PACHAPIRIANA AREA, REPUBLIC OF PERU  
(PHASE II)  
DISTRIBUTION OF GEOCHEMICAL ANOMALY  
IN THE CHONTALI AREA (Au Ag and Pb)



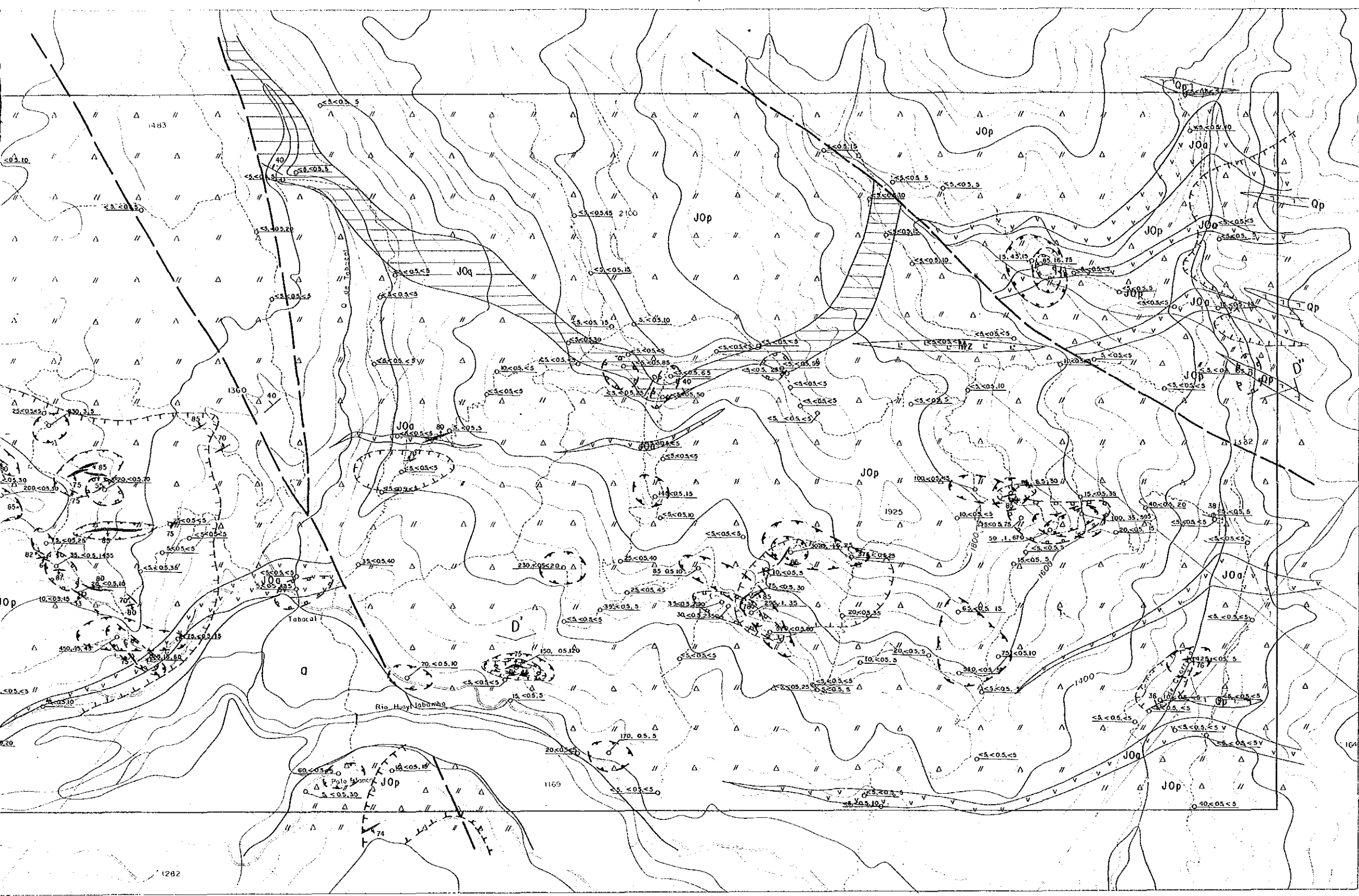
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METAL MINING AGENCY OF JAPAN  
FEBRUARY 1990  
Prepared by MINDECO

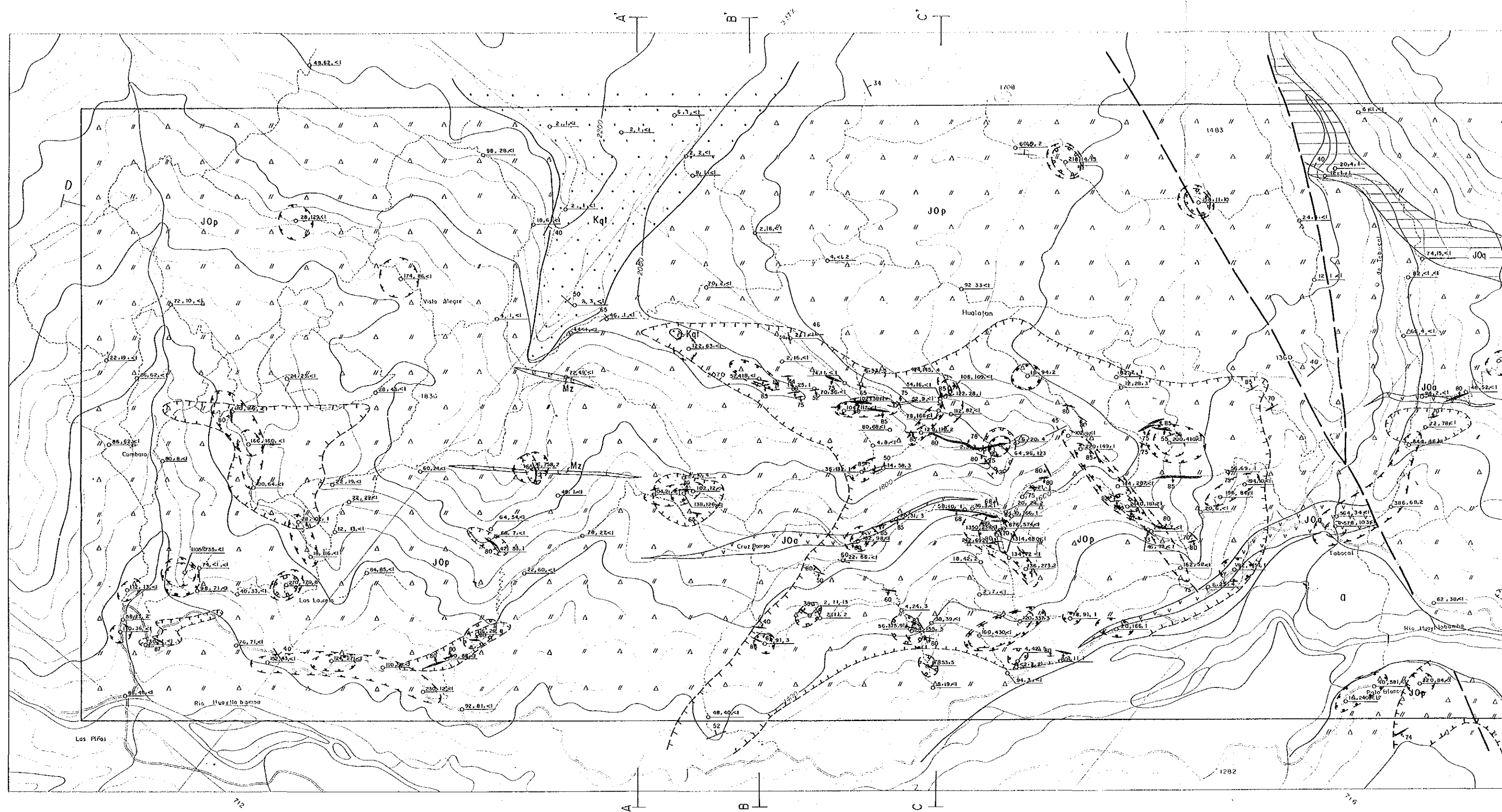


**LEGEND**  
Geochemical Anomaly

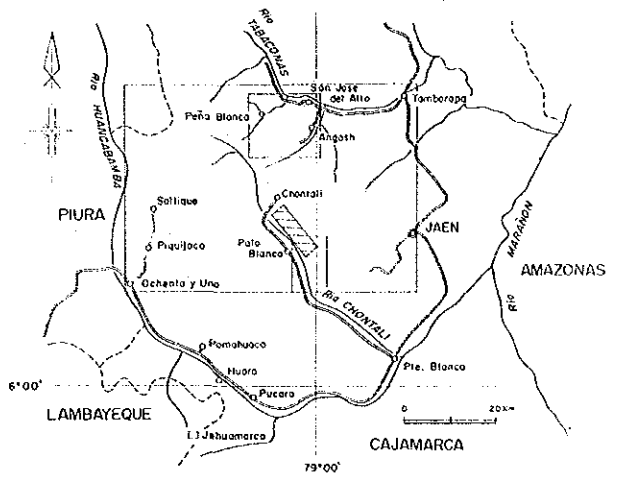
	Au	≡	50 ppb
	Ag	≡	05 ppm
	Pb	≡	50 ppm

Quaternary	Alluvium		a	Gravel, Sand
Cretaceous	Goylla-risquizga		GR	Quartzite
Jurassic	Oyotun Vol.		JOq	Sandstone, Quartzite, Shale
			JOp	Tuff, Lapilli Tuff, Tuff Breccio
Triassic			JOa	Andesite
<b>Intrusives</b>				
			Mz	Monzonite
			Qp	Quartz Porphyry
<b>Alteration</b>				
				Silicified and / or Argillized Zone
<b>Others</b>				
				Quartz Vein
				Fault
				Bedding

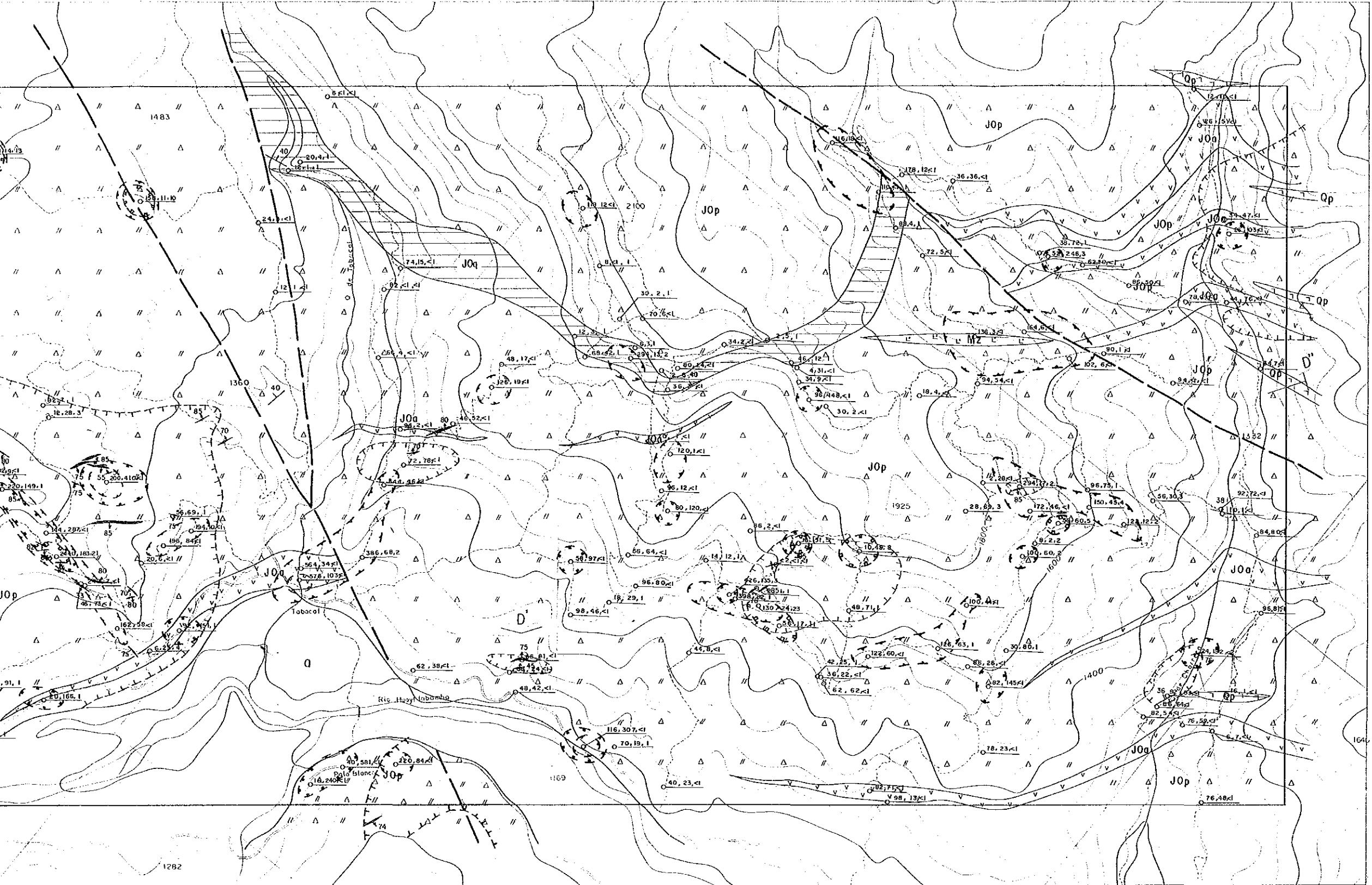
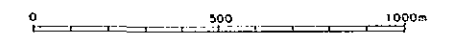




THE MINERAL EXPLORATION  
 IN  
 THE PACHAPIRIANA AREA, REPUBLIC OF PERU  
 ( PHASE II )  
 DISTRIBUTION OF GEOCHEMICAL ANOMALY  
 IN THE CHONTALI AREA (Zn, Cu and Mo)



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**LEGEND**

**Geochemical Anomaly**

- Zn ≡ 100ppm
- Cu ≡ 90 ppm
- Mo ≡ 5 ppm

**Geological Units**

- Quaternary Alluvium a Gravel, Sand
- Cretaceous Goyllarisquizga GP Kgt Quartzite
- Jurassic JOq Sandstone, Quartzite, Shale
- Oyotun Vol. JOp Tuff, Lapilli Tuff, Tuff Breccia
- Triassic JOo JOo Andesite

**Intrusives**

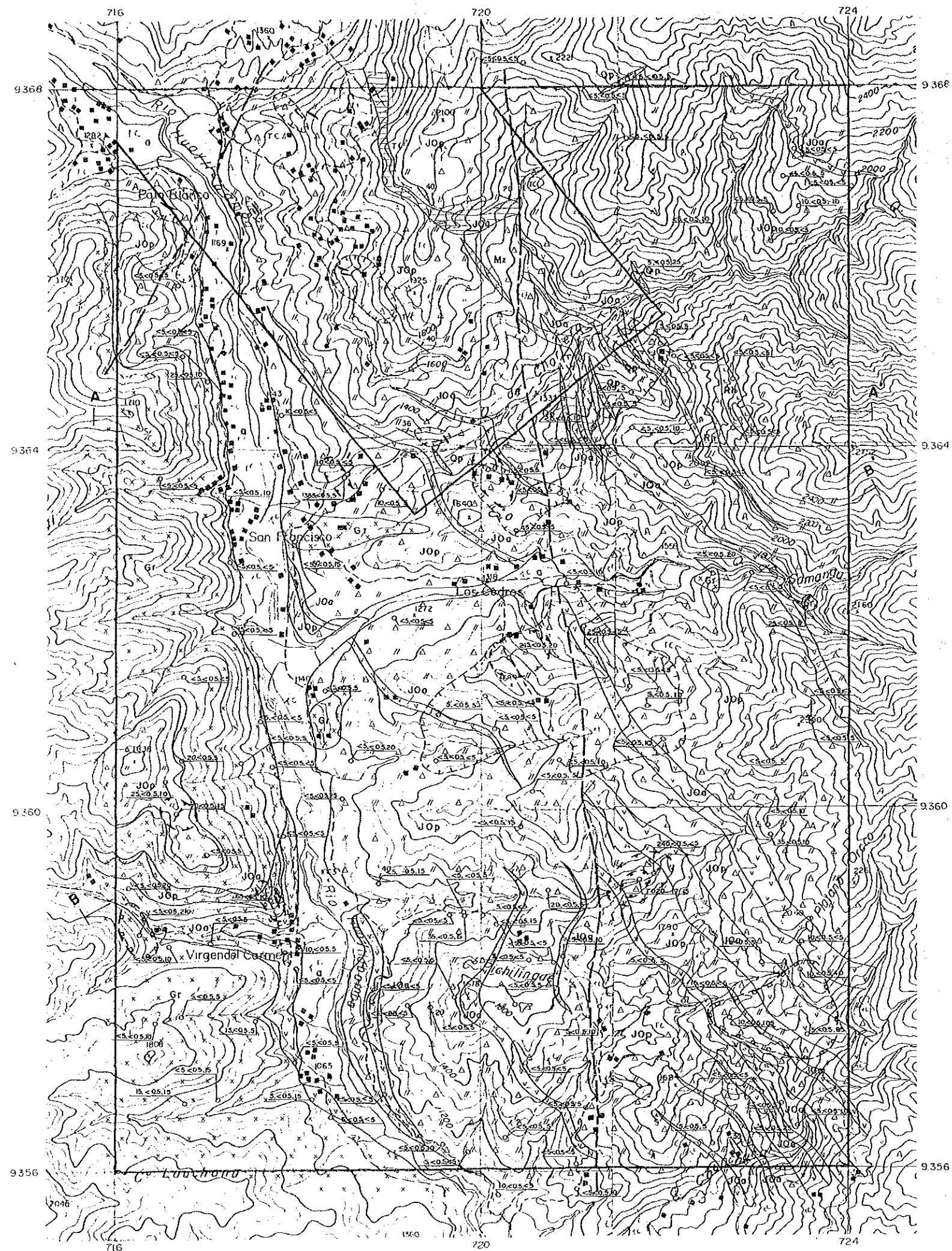
- Mz Mz Monzonite
- Qp Qp Quartz Porphyry

**Alteration**

- Silicified and / or Argillized Zone

**Others**

- Quartz Vein
- Fault
- Bedding



PL-5 (1)

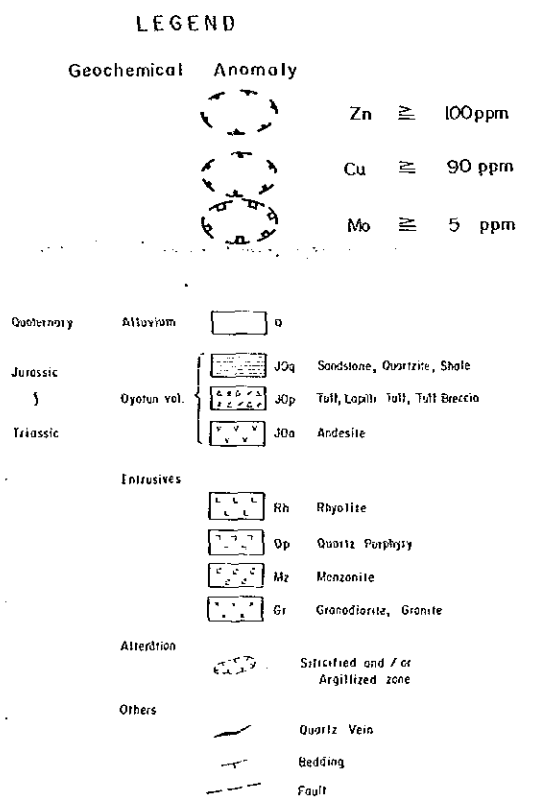
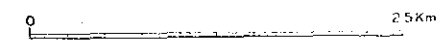
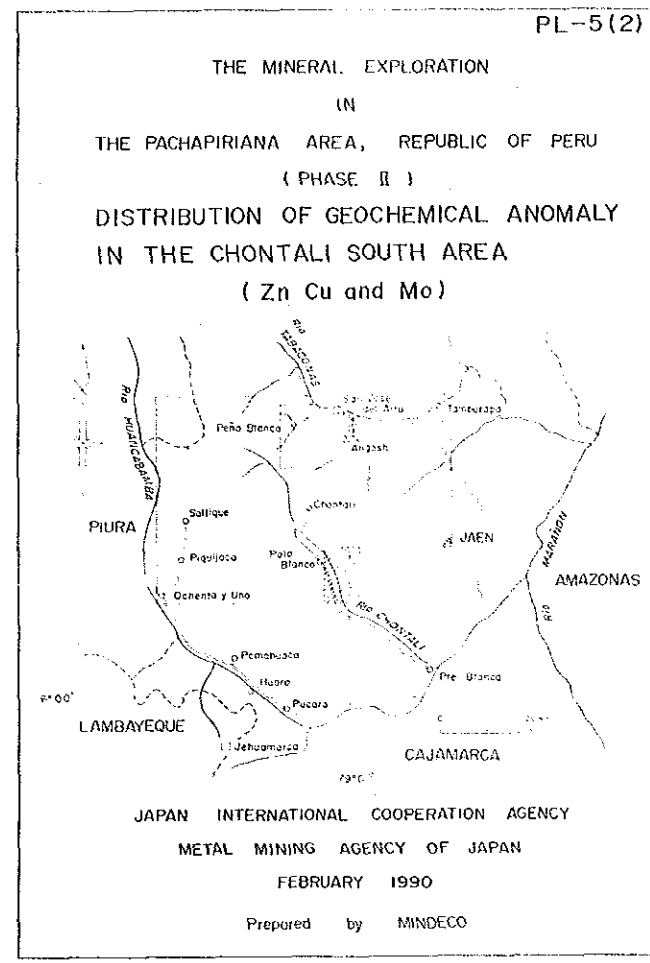
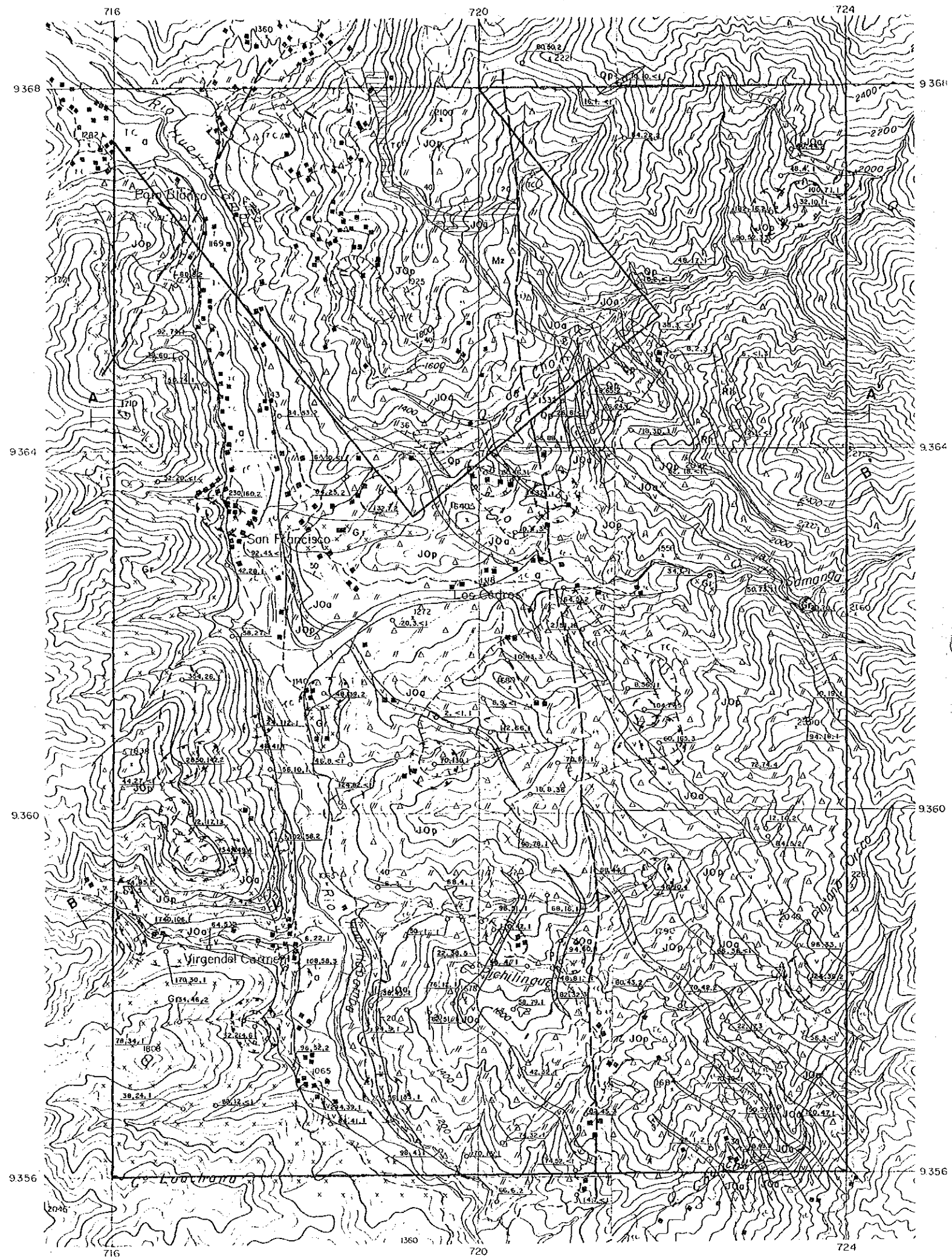
THE MINERAL EXPLORATION  
IN  
THE PACHAPIRIANA AREA, REPUBLIC OF PERU  
( PHASE II )  
DISTRIBUTION OF GEOCHEMICAL ANOMALY  
IN THE CHONTALI SOUTH AREA  
( Au, Ag and Pb )

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METAL MINING AGENCY OF JAPAN  
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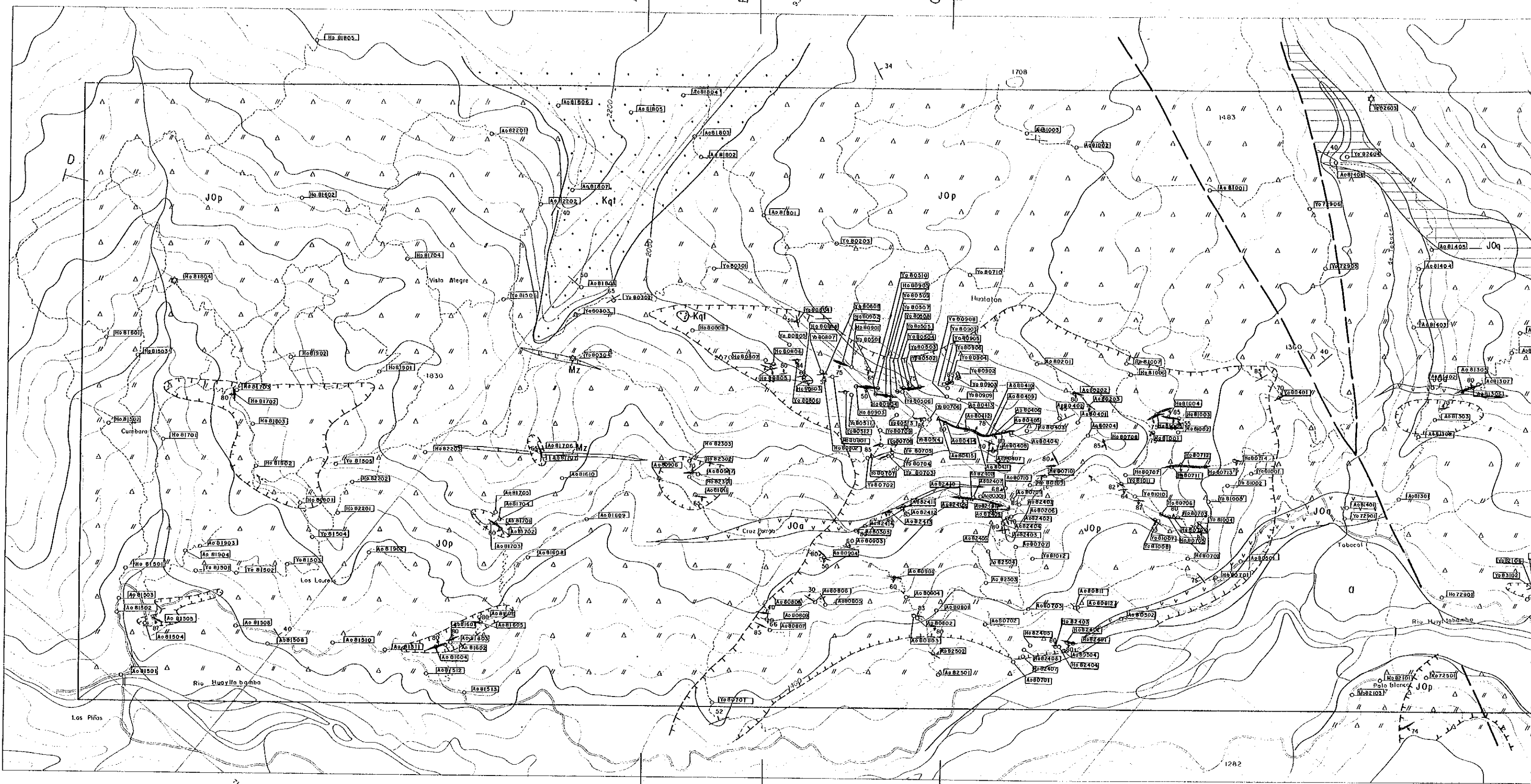


**LEGEND**

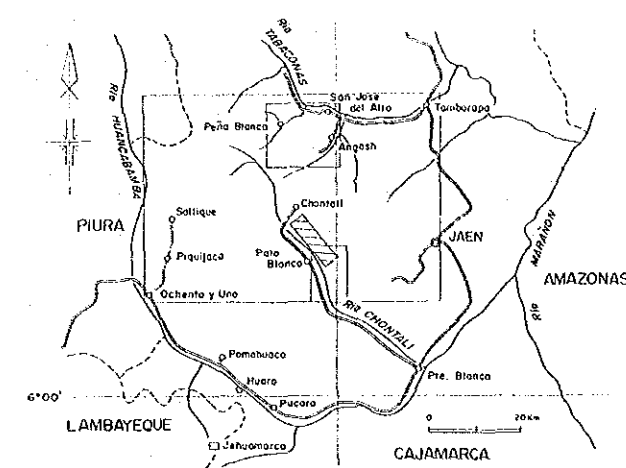
Geochemical Anomaly	
	Au $\equiv$ 50 ppb
	Ag $\equiv$ 05 ppm
	Pb $\equiv$ 32 ppm
Alluvium	
Oyotun vol.	
Intrusives	
Alteration	
Others	







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



JAPAN INTERNATIONAL COOPERATION AGENCY  
 METAL MINING AGENCY OF JAPAN  
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LEGEND

- Geochemical Analysis
- Ore Grade Analysis
- Thin Section
- Polished Section
- X-ray Analysis
- Whole Rock Analysis
- Fluid Inclusion Homogenization Temperature Analysis
- Isotopic Age Determination

- Quaternary Alluvium
- Jurassic J0q Sandstone, Quartzite, Shale
- J0p Tuff, Lapilli Tuff, Tuff Breccia
- Triassic J0a Andesite
- Intrusives Rh Rhyolite
- Op Quartz Porphyry
- Mz Monzonite
- Gr Granodiorite, Granite
- Alteration Silicified and/or Argillized zone
- Others Quartz Vein
- Bedding
- Fault

