

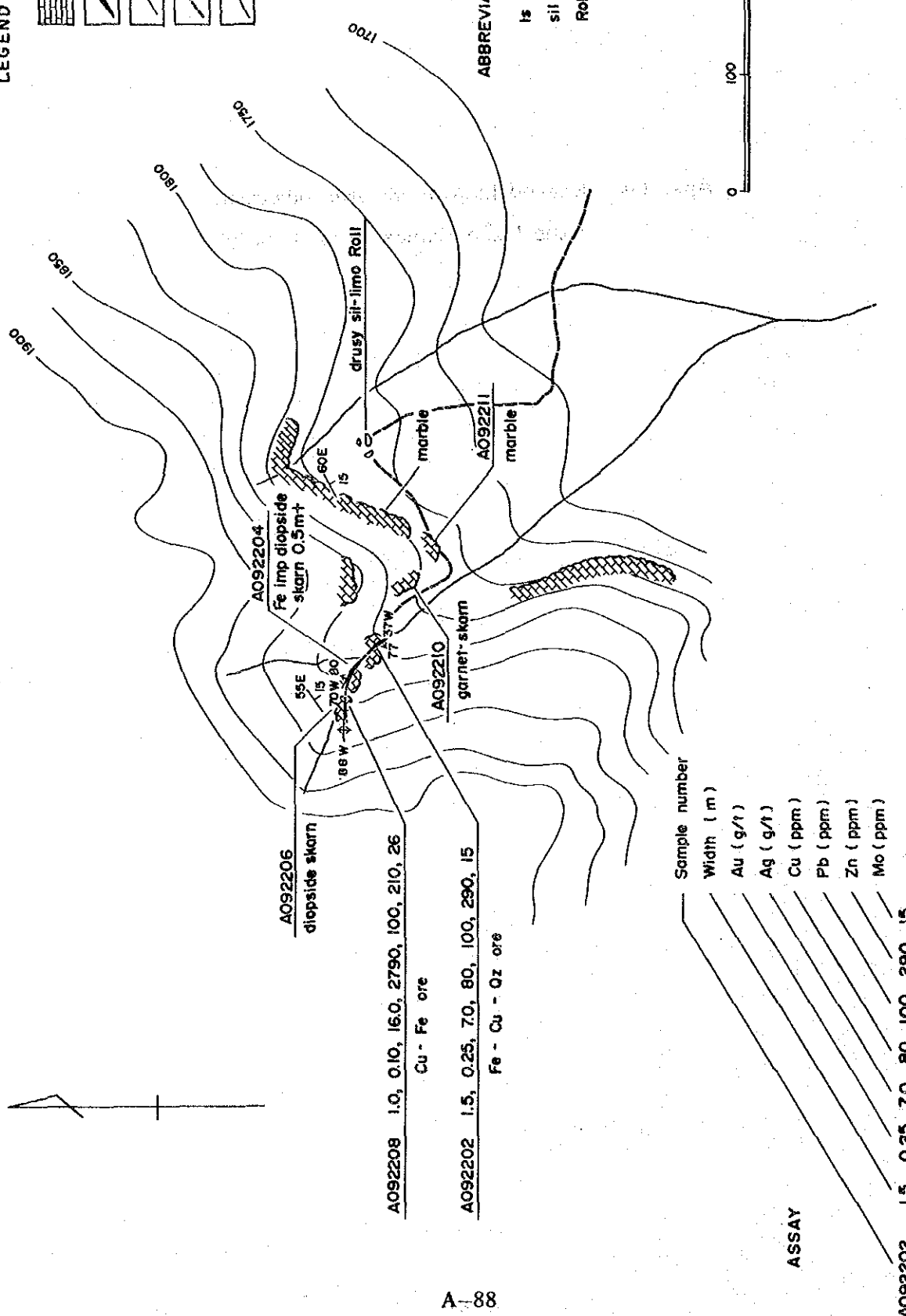
**Apx. 14 Detailed Map of Mineral Indication
in the Peña Blanca Area (1) ~ (2)**

LEGEND

- limestone
- ore deposit
- bedding
- road
- drainage

ABBREVIATION

- ls : limestone
- Qz : quartz
- sil : silicified
- chl : chlorite
- Roll : rolling stone



A092206
diopside skarn

A092204
Fe imp diopside
skarn 0.5mt

A092208 1.0, 0.10, 16.0, 2790, 100, 210, 26
Cu - Fe ore

A092202 1.5, 0.25, 7.0, 80, 100, 290, 15
Fe - Cu - Qz ore

A092210
garnet-skarn

A092211
marble

Sample number

Width (m)

Au (g/t)

Ag (g/t)

Cu (ppm)

Pb (ppm)

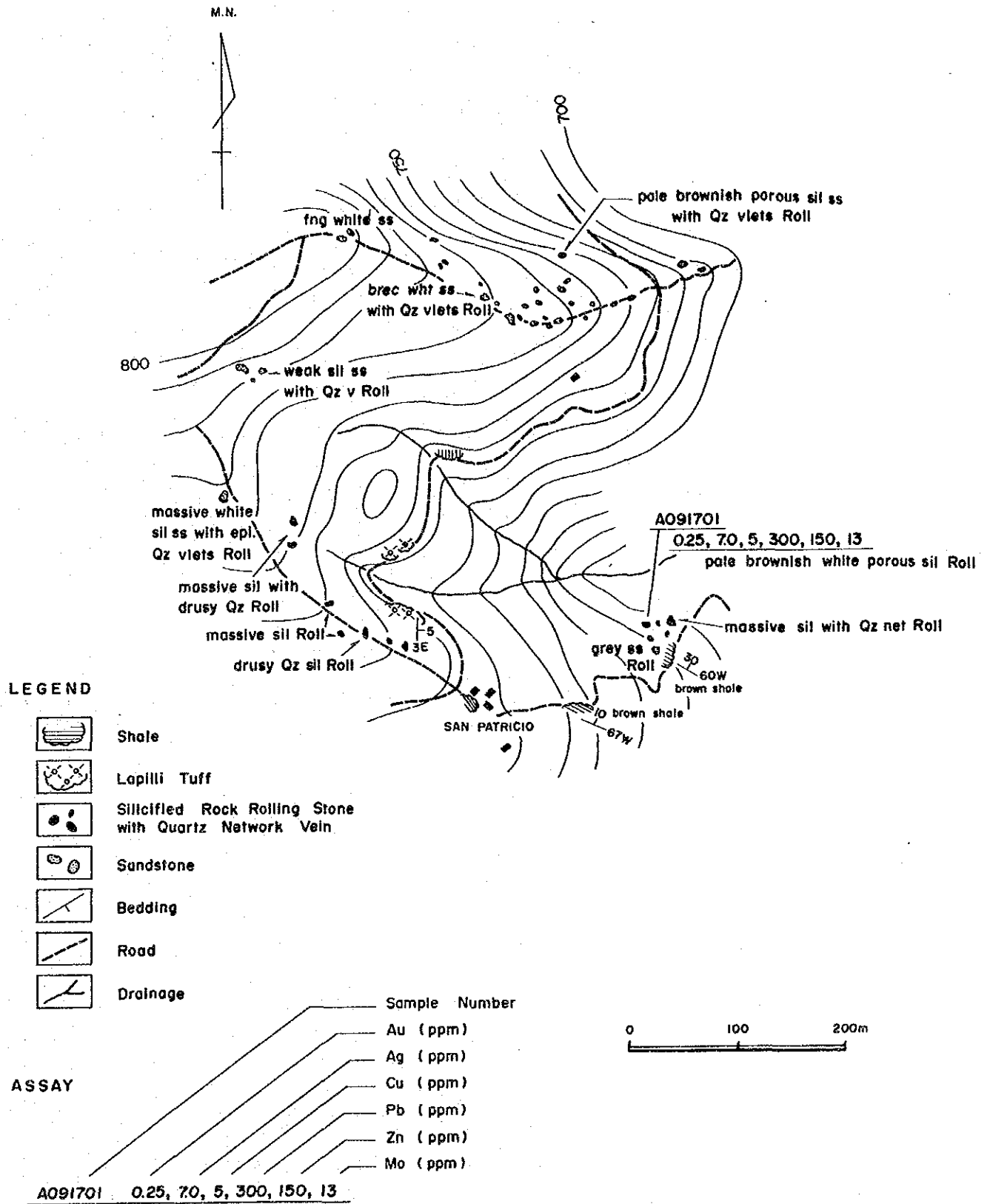
Zn (ppm)

Mo (ppm)

ASSAY

A092202 1.5, 0.25, 7.0, 80, 100, 290, 15

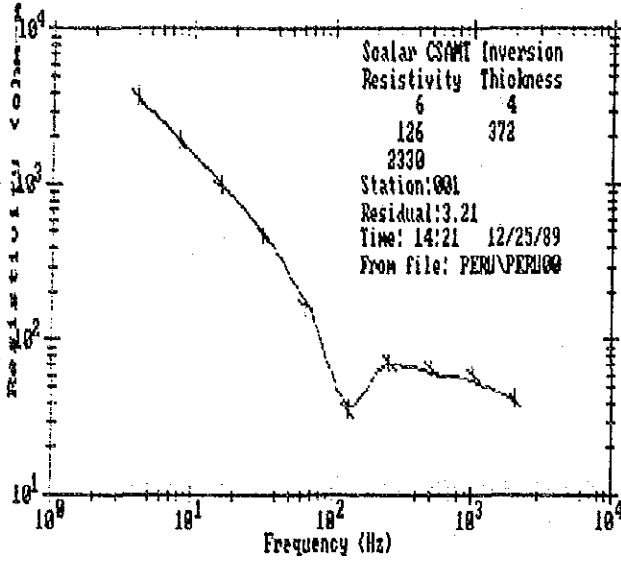
Detailed Map of Mineral Indication in the Peña Blanca Area (1)



Detailed Map of Mineral Indication in the Peña Blanca Area (2)

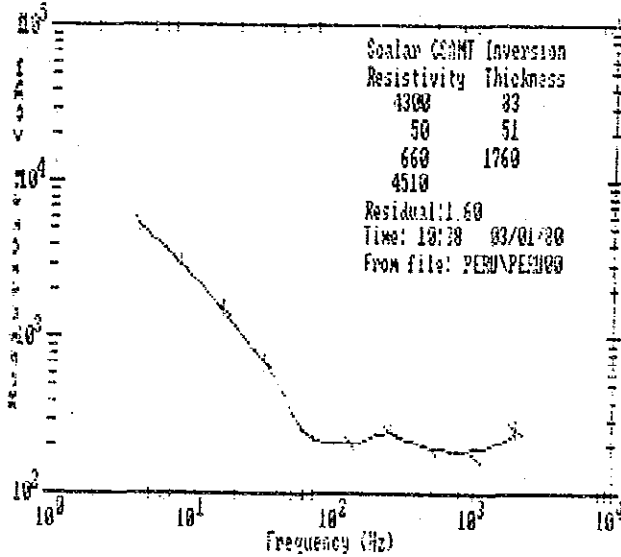
Apx. 15 Apparent Resistivity Curve and Acceptable Model

NO. 1



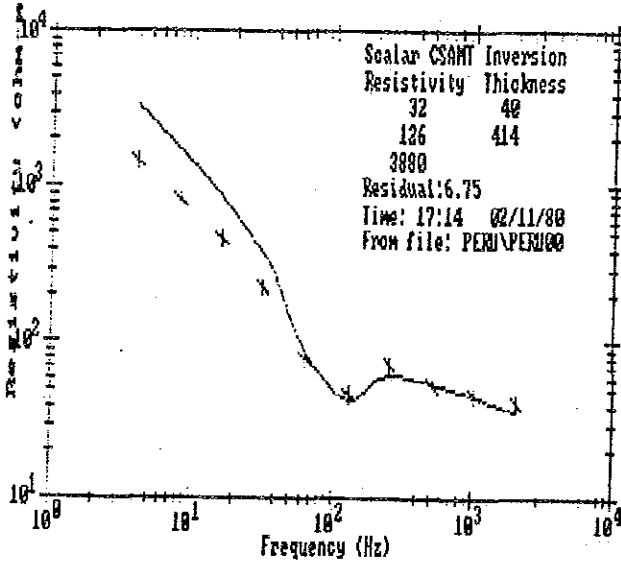
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	6	4
2	126	376
3	2330	

NO. 2



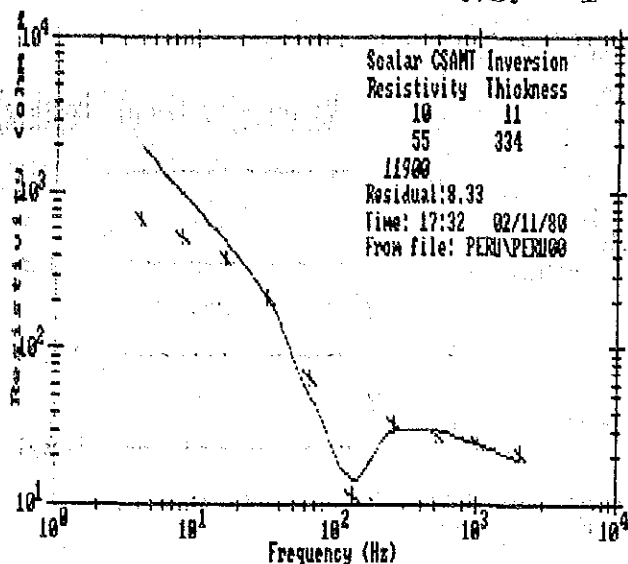
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	4300	83
2	50	134
3	660	1894
4	4510	

NO. 3



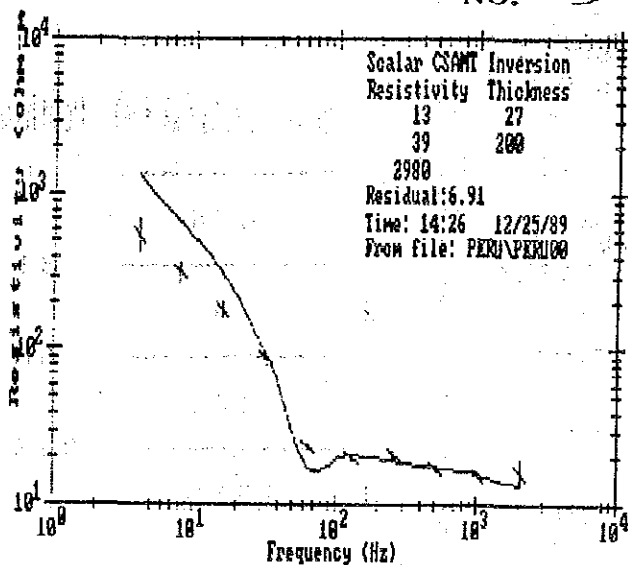
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	32	40
2	126	454
3	3880	

NO. 4



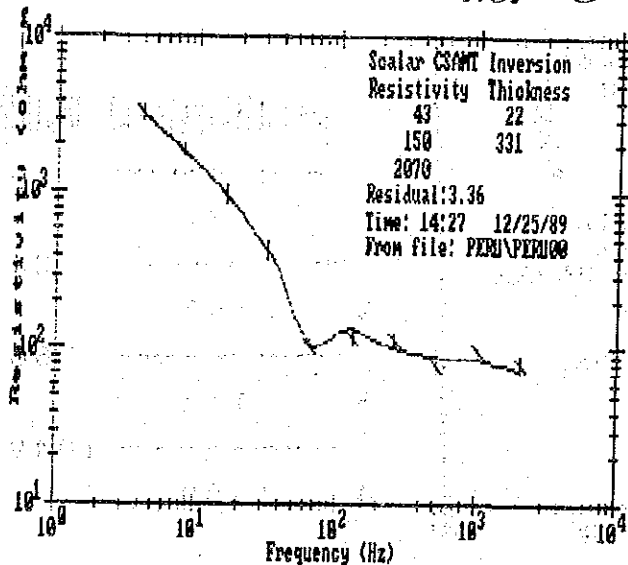
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	10	11
2	55	345
3	V H	

NO. 5



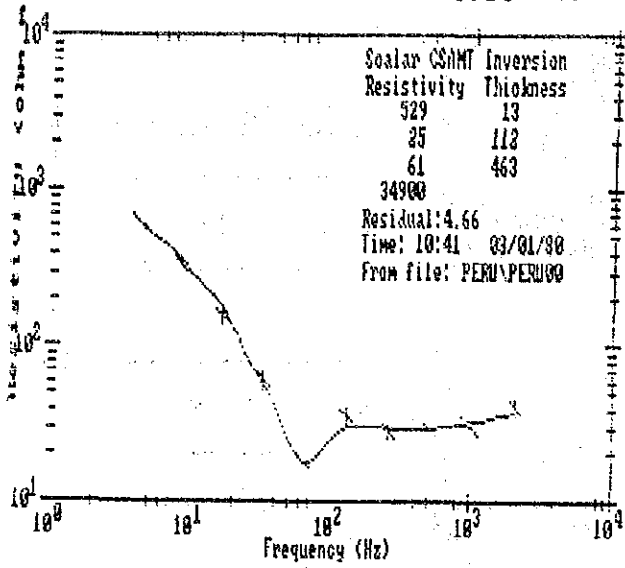
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	13	27
2	39	227
3	2980	

NO. 6



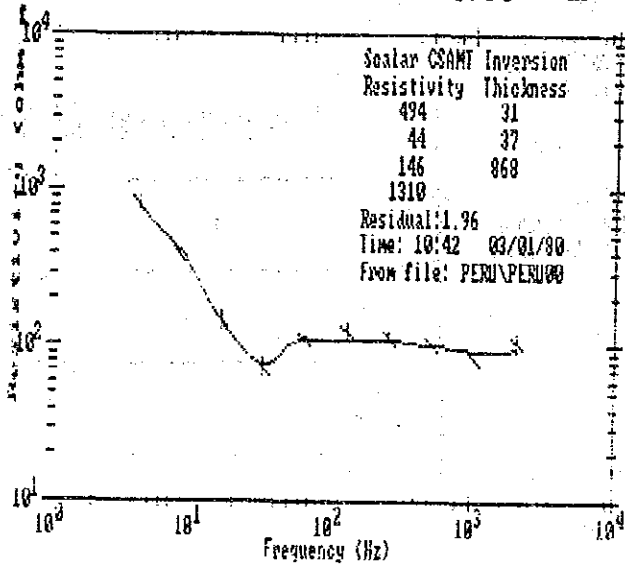
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	43	22
2	150	353
3	2070	

NO. 7



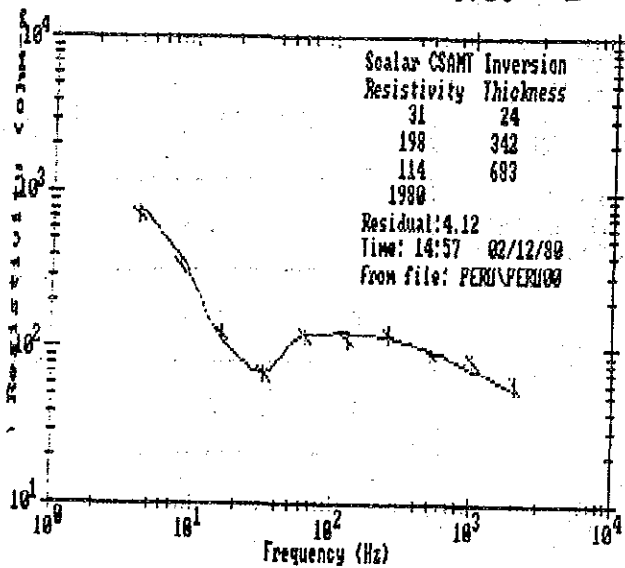
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	529	13
2	25	125
3	61	588
4	V H	

NO. 8



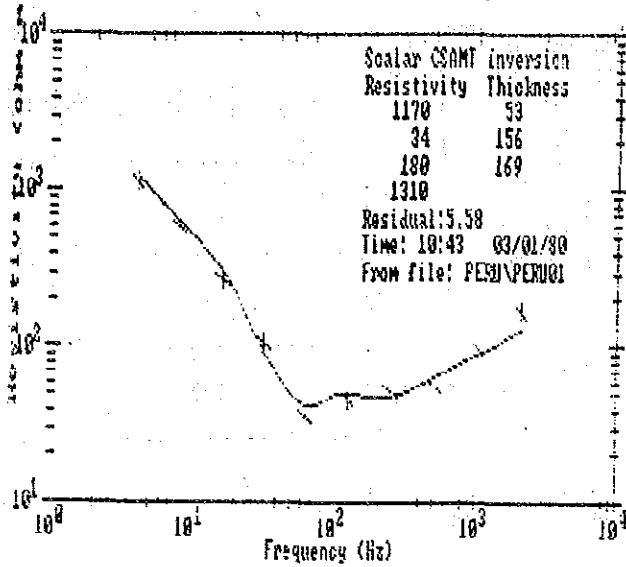
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	494	31
2	44	68
3	146	936
4	1310	

NO. 9



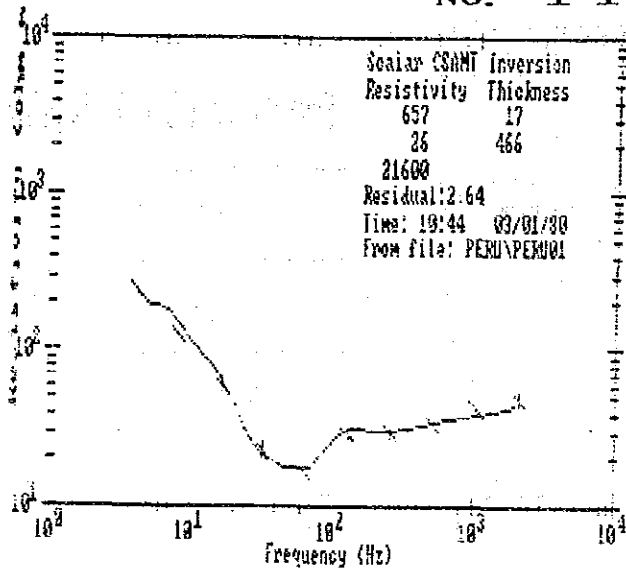
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	31	24
2	198	366
3	114	1049
4	1980	

NO. 1 0



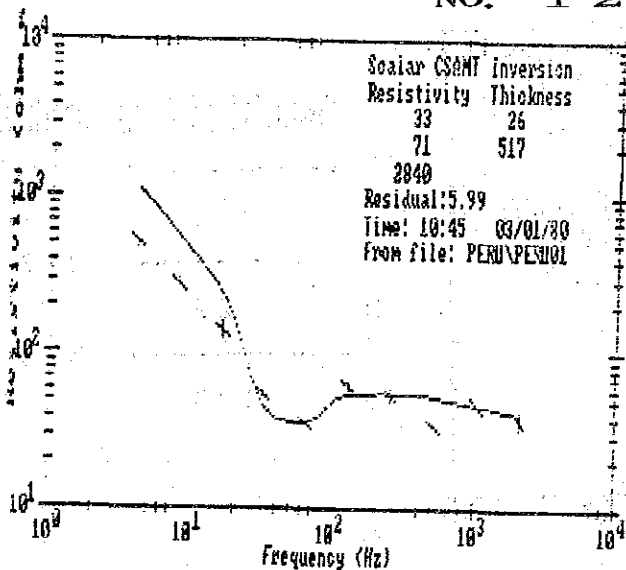
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	1170	53
2	34	209
3	180	378
4	1310	

NO. 1 1



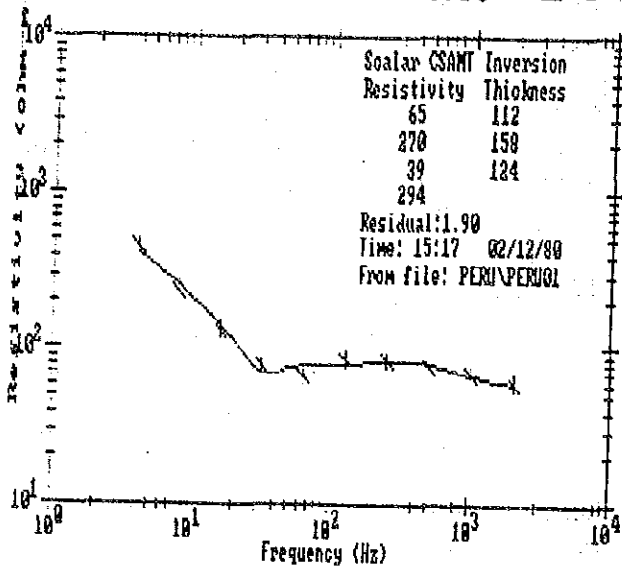
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	657	17
2	26	483
3	V H	

NO. 1 2



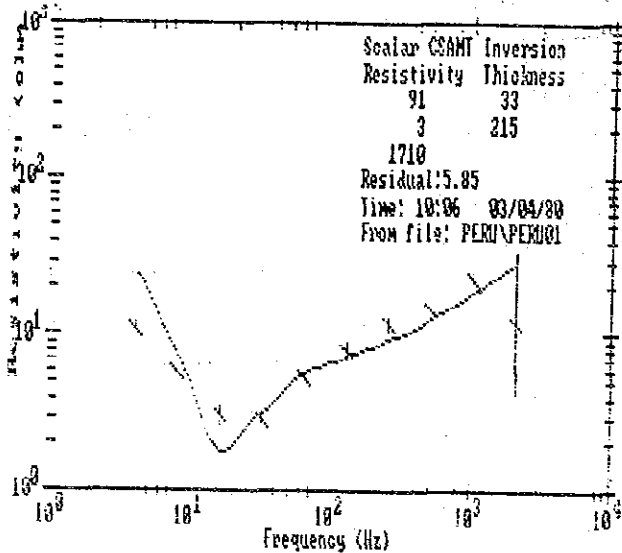
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	33	26
2	71	543
3	2840	

NO. 13



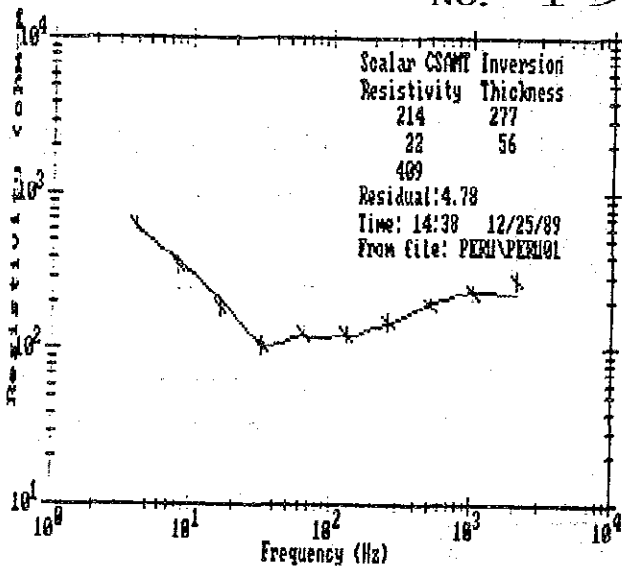
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	65	112
2	270	270
3	39	394
4	294	

NO. 14



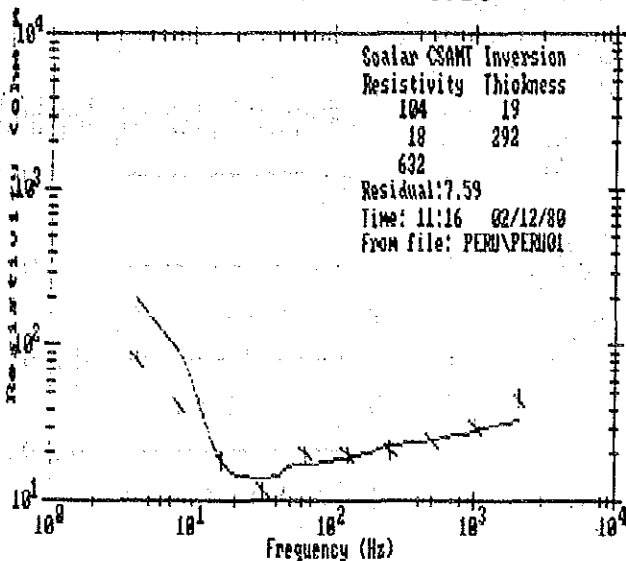
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	91	33
2	3	248
3	1710	

NO. 15



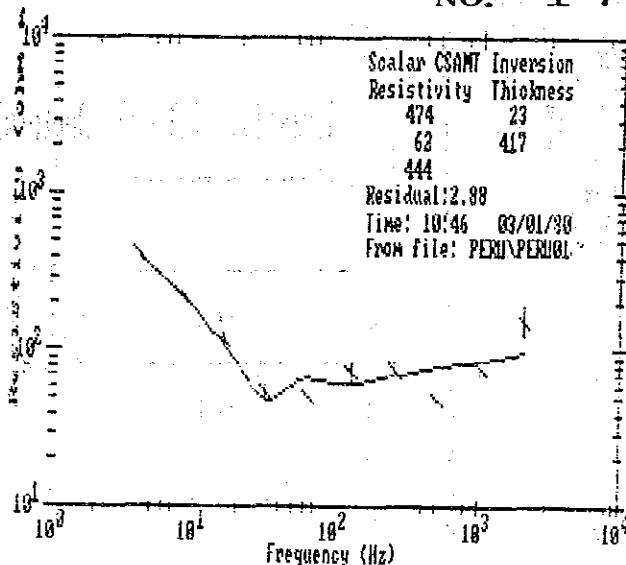
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	214	277
2	22	333
3	409	

NO. 16



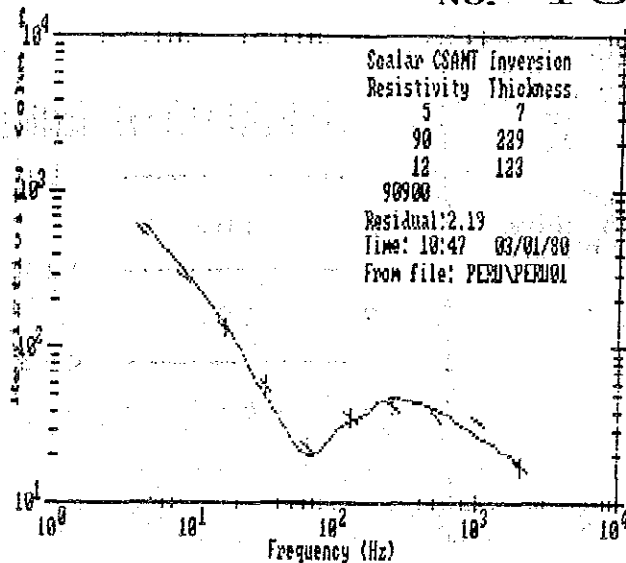
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	104	
		19
2	18	
		311
3	632	

NO. 17



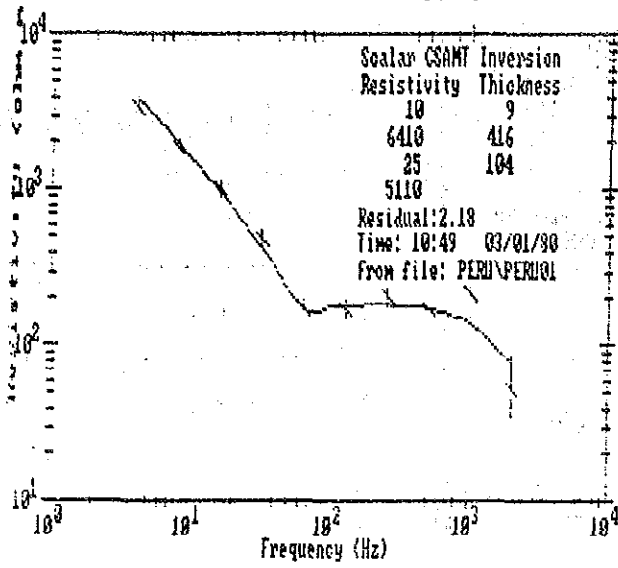
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	474	
		23
2	62	
		440
3	444	

NO. 18



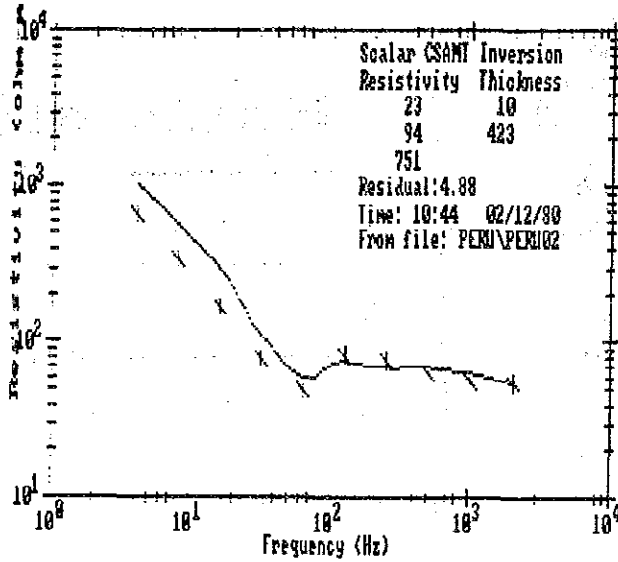
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	5	
		7
2	90	
		236
3	12	
		359
4	V H	

NO. 19



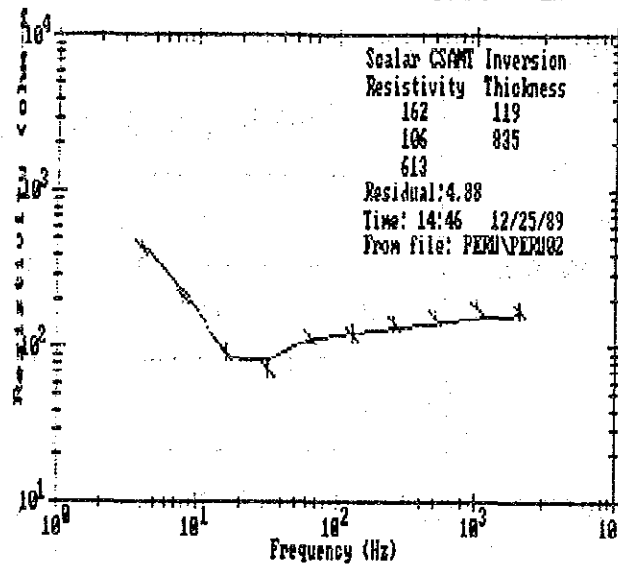
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	10	9
2	6410	425
3	25	529
4	5110	

NO. 20



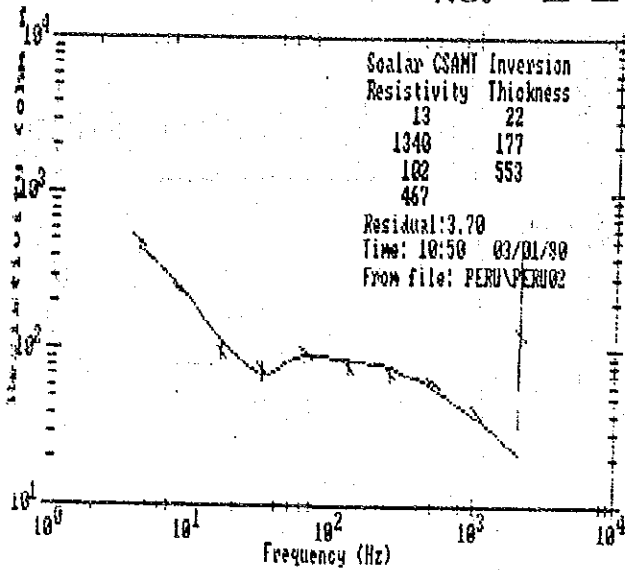
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	23	10
2	94	433
3	751	

NO. 21



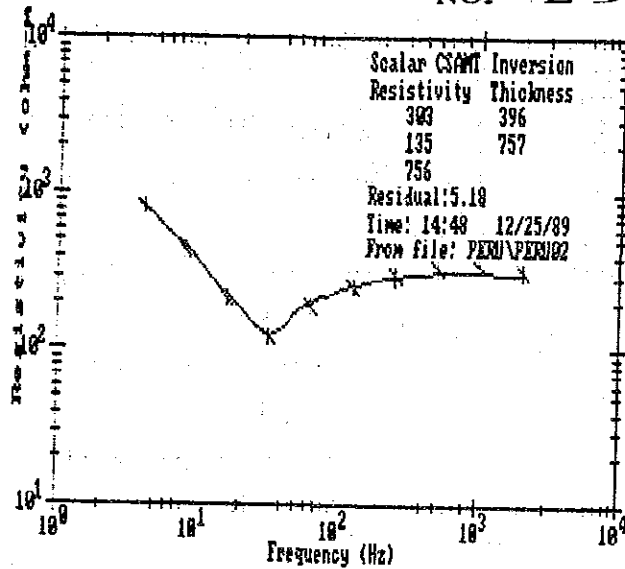
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	162	119
2	106	954
3	613	

NO. 22



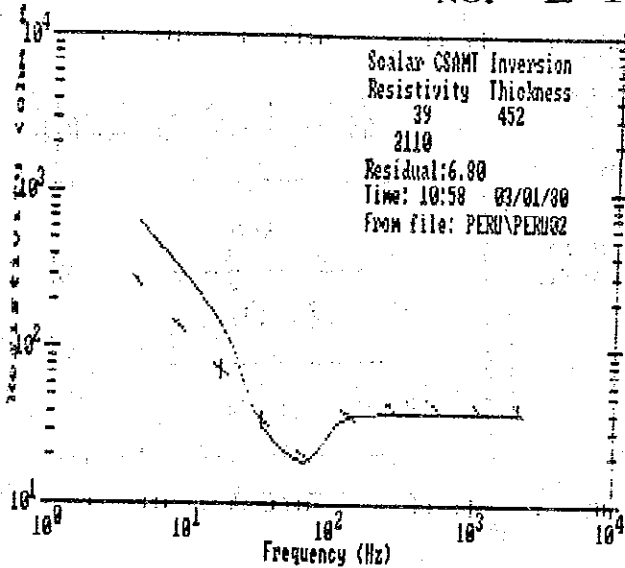
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	13	22
2	1340	199
3	102	752
4	467	

NO. 23



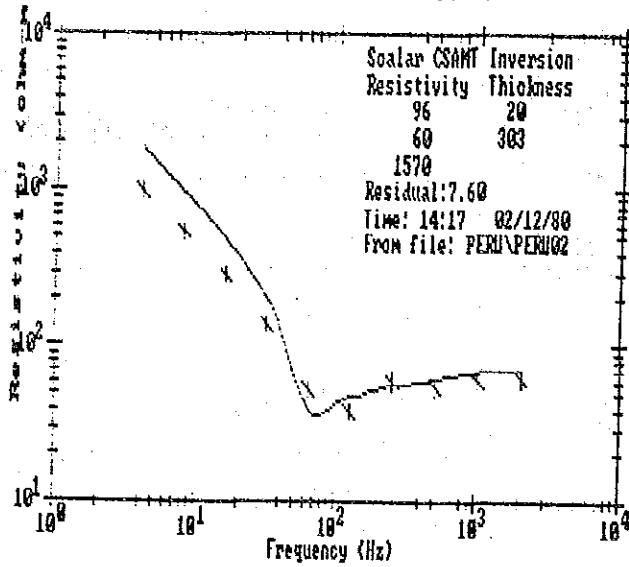
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	303	396
2	135	1153
3	756	

NO. 24



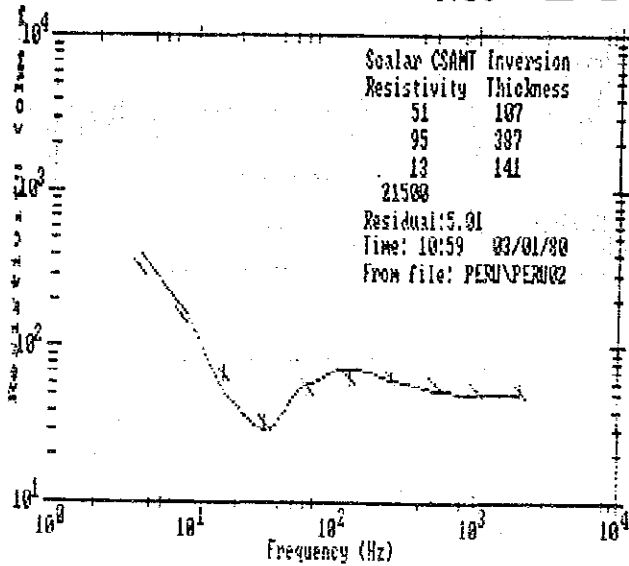
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	39	452
2	2110	

NO. 25



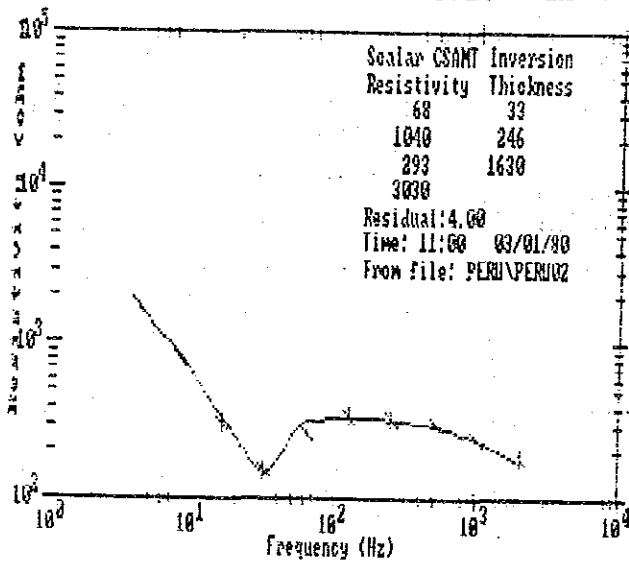
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	96	20
2	60	323
3	1570	

NO. 26



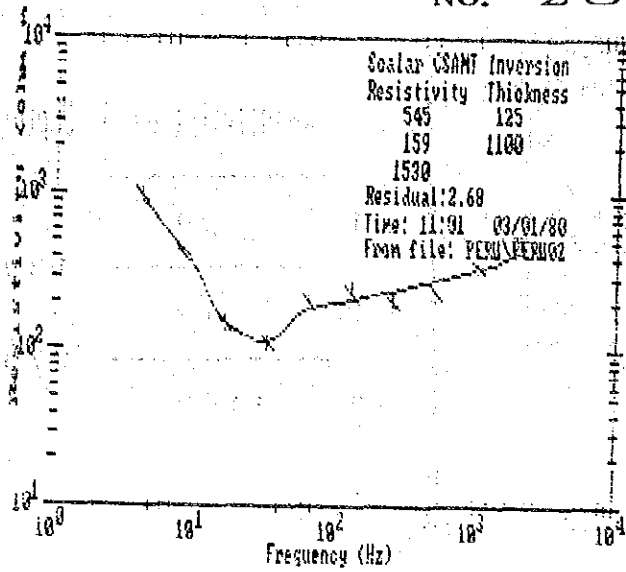
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	51	107
2	95	494
3	13	635
4	V H	

NO. 27



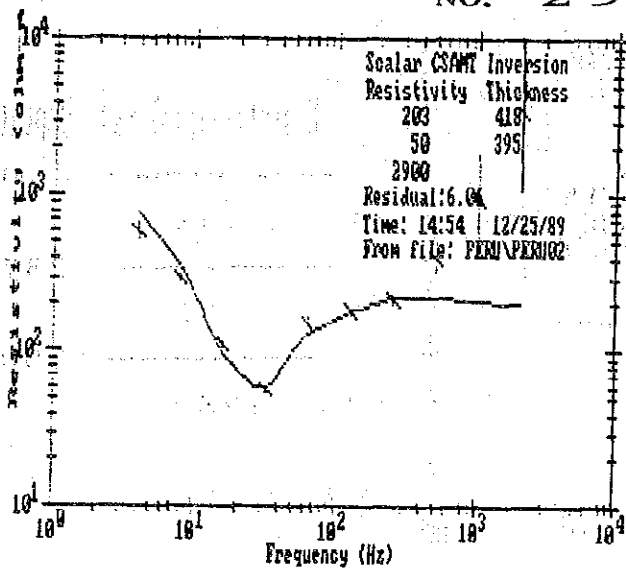
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	68	33
2	1040	279
3	293	1909
4	3030	

NO. 28



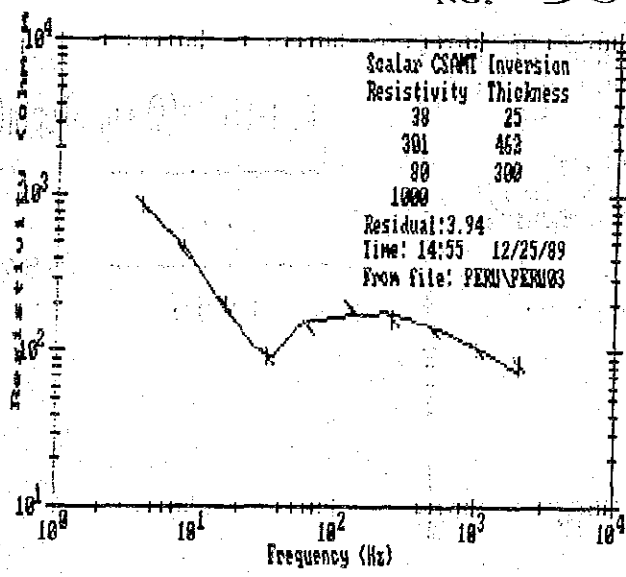
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	545	125
2	159	1225
3	1530	

NO. 29



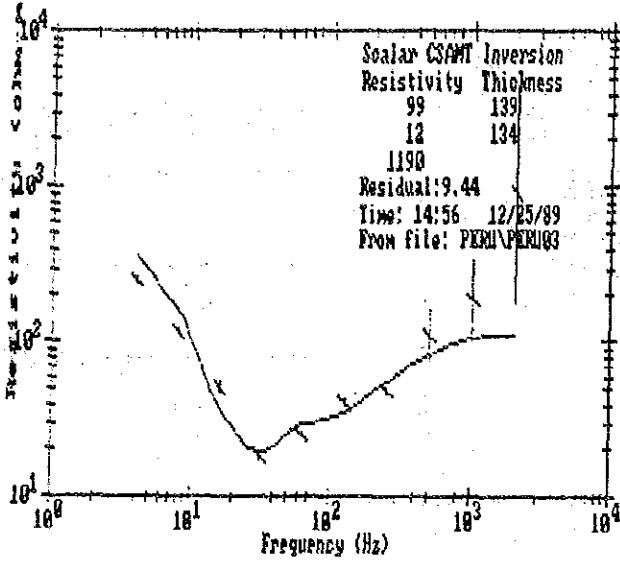
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	203	418
2	50	813
3	2900	

NO. 30



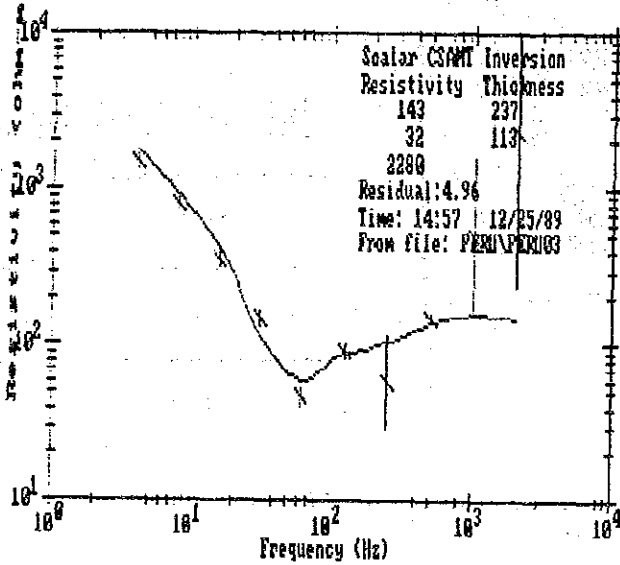
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	38	25
2	301	487
3	80	787
4	1000	

NO. 31



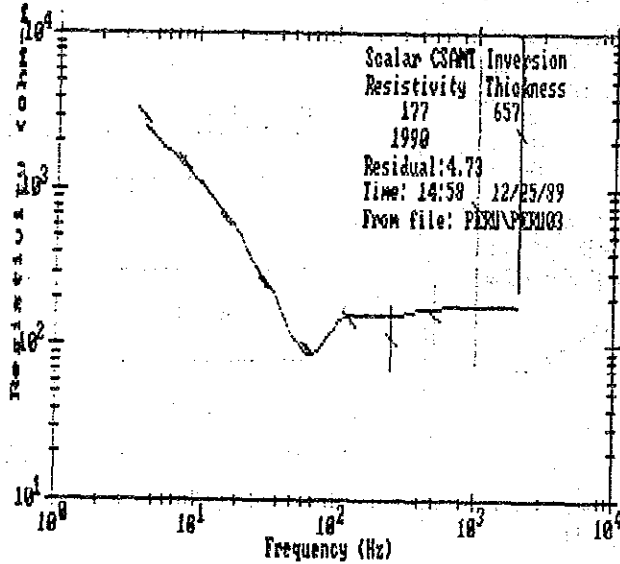
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	99	139
2	12	273
3	1190	

NO. 32



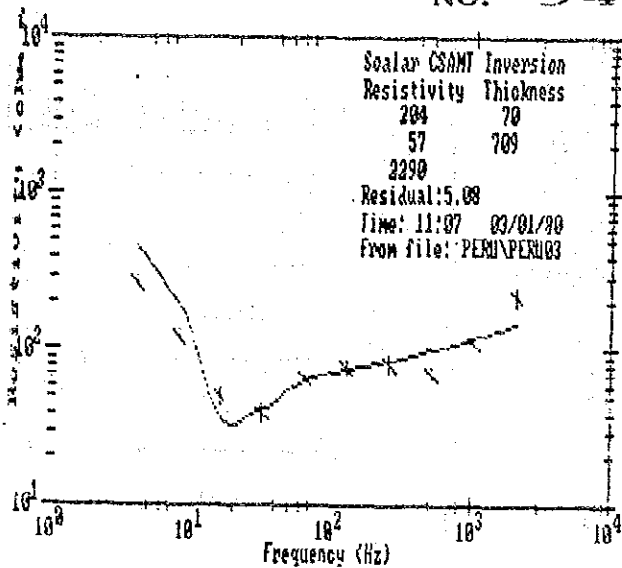
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	143	237
2	32	350
3	2280	

NO. 33



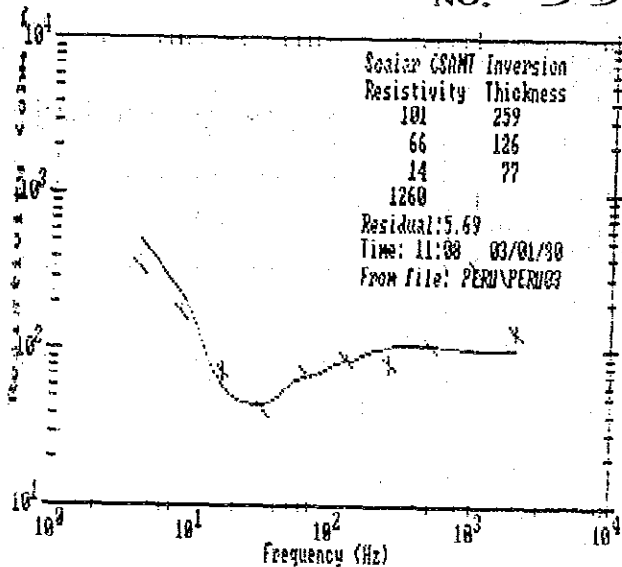
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	117	657
2	1990	

NO. 34



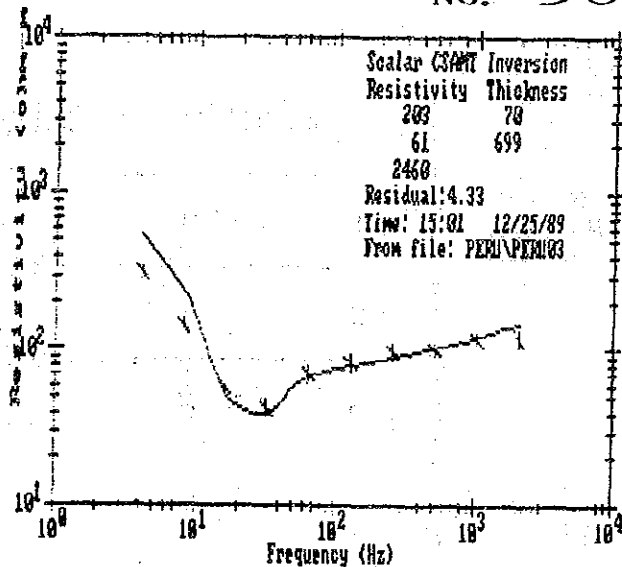
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	204	70
2	57	779
3	2290	

NO. 35



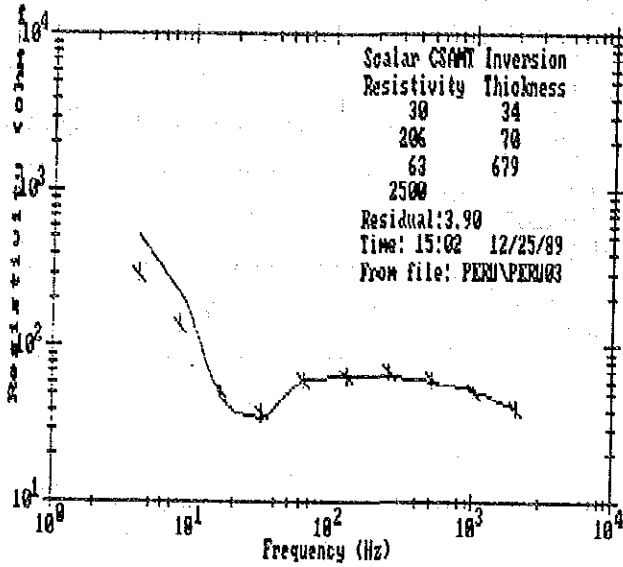
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	101	259
2	66	385
3	14	462
4	1260	

NO. 36



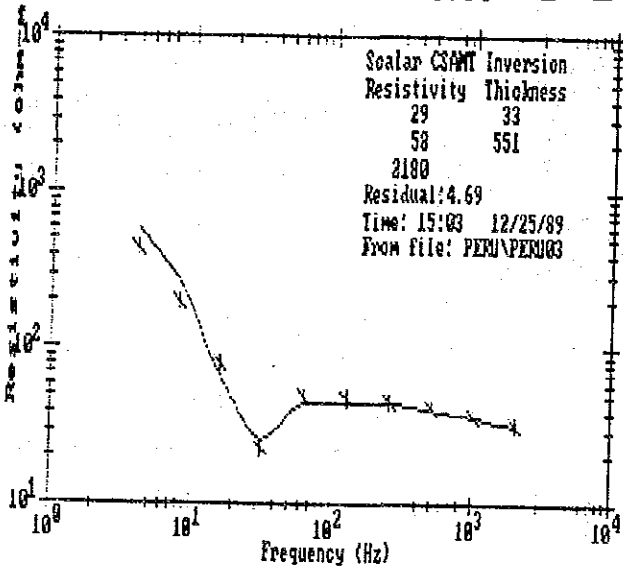
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	203	70
2	61	769
3	2460	

NO. 37



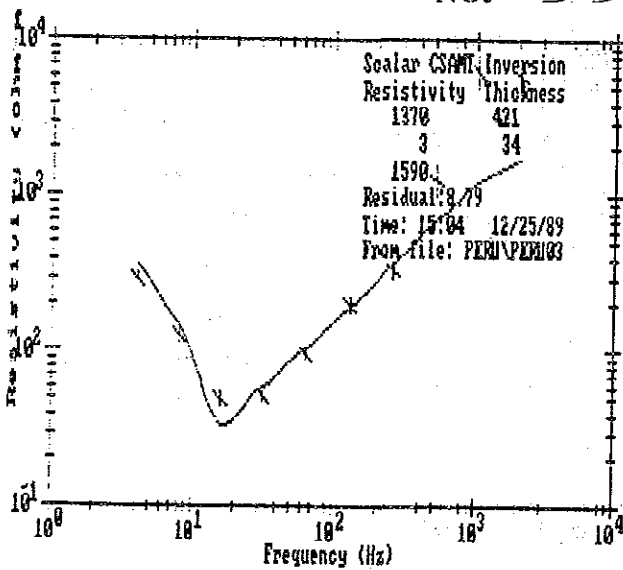
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	30	34
2	206	104
3	63	783
4	2500	

NO. 38



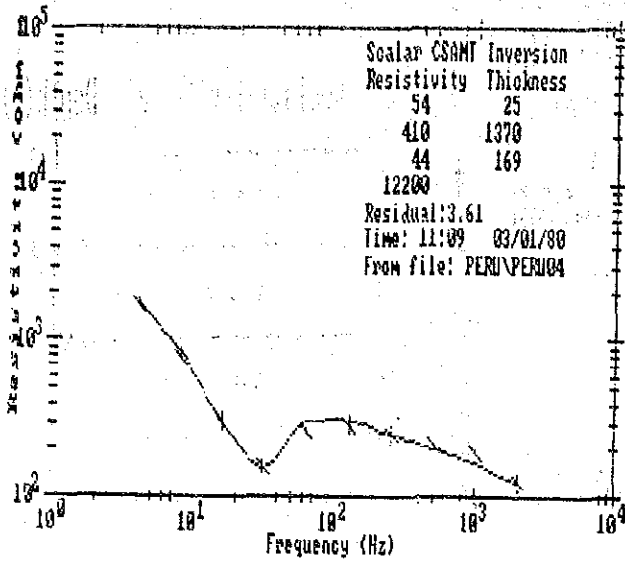
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	29	33
2	58	584
3	2180	

NO. 39



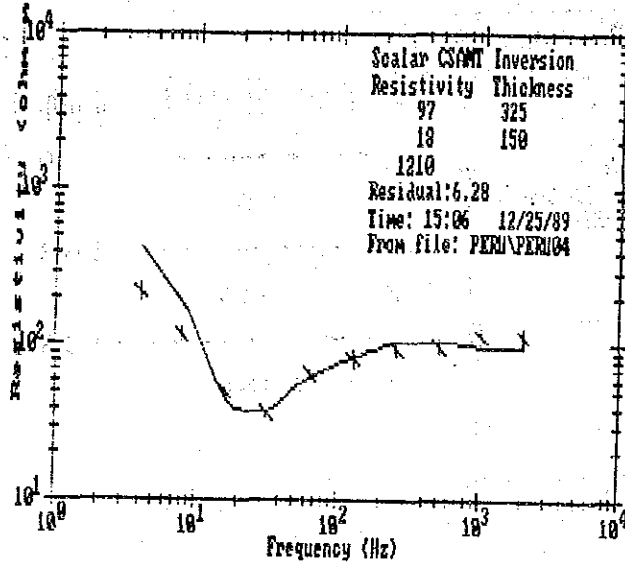
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	1370	421
2	3	455
3	1590	

NO. 40



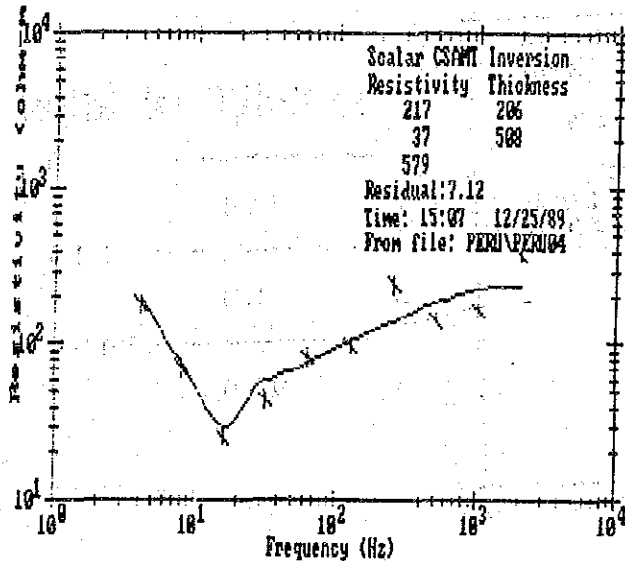
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	54	25
2	410	1395
3	44	1564
4	V H	

NO. 41



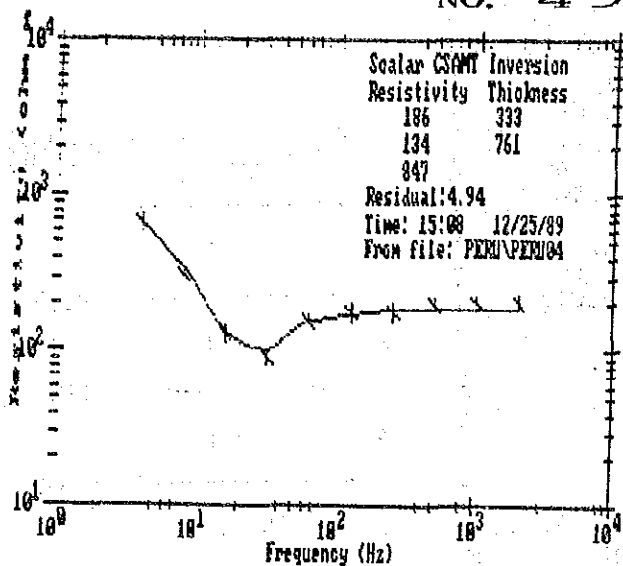
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	97	325
2	18	475
3	1210	

NO. 42



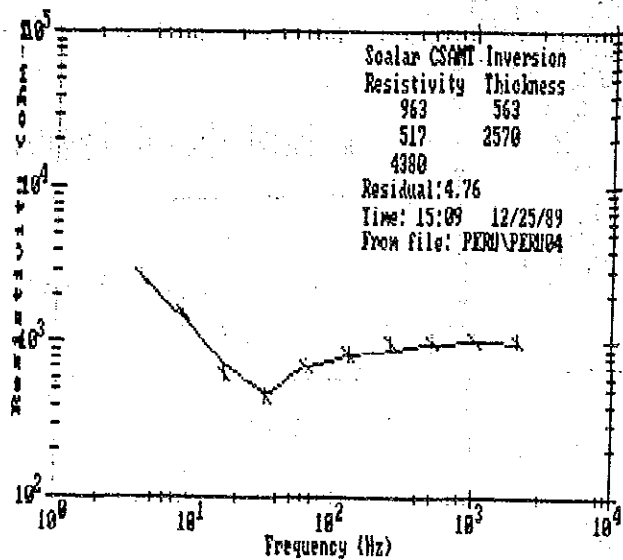
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	217	206
2	37	714
3	579	

NO. 43



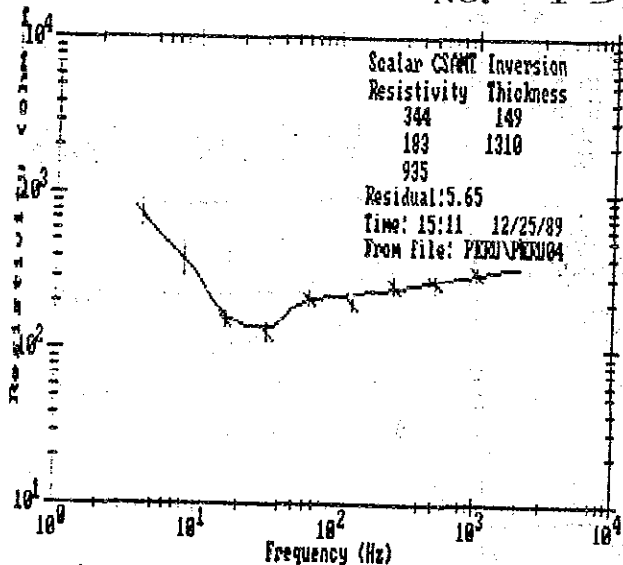
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	186	
		333
2	134	
		1094
3	847	

NO. 44



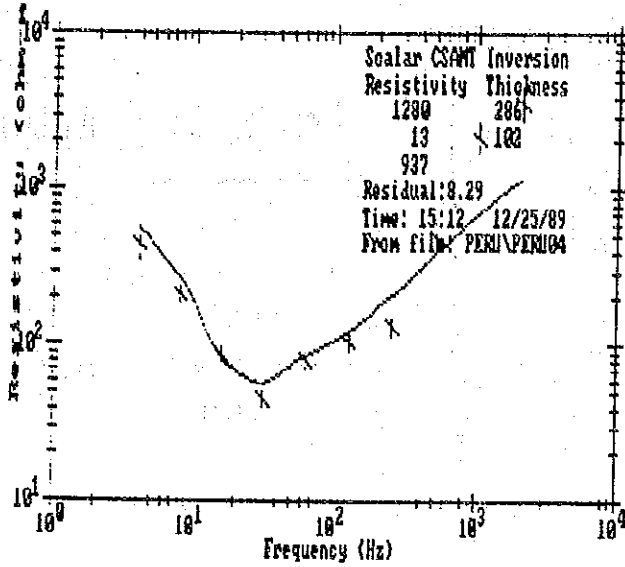
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	963	
		563
2	517	
		3133
3	4380	

NO. 45



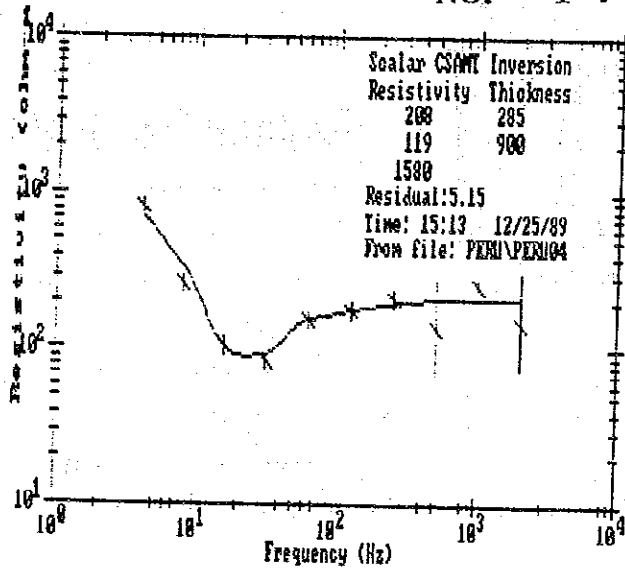
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	344	
		149
2	183	
		1459
3	935	

NO. 46



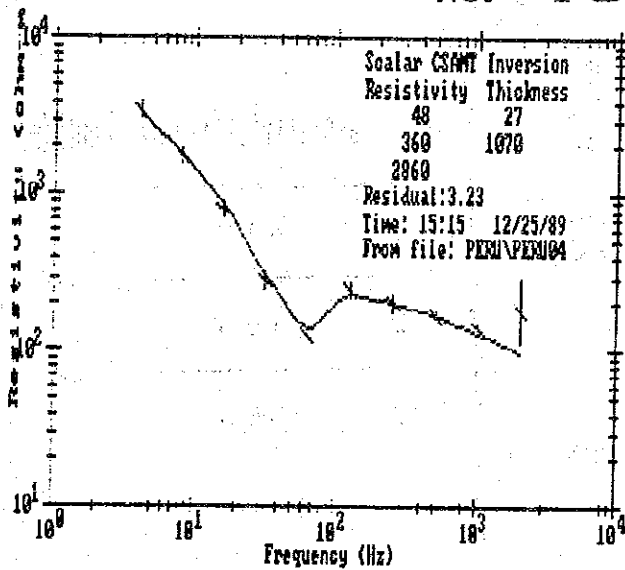
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	1280	286
2	13	388
3	937	

NO. 47



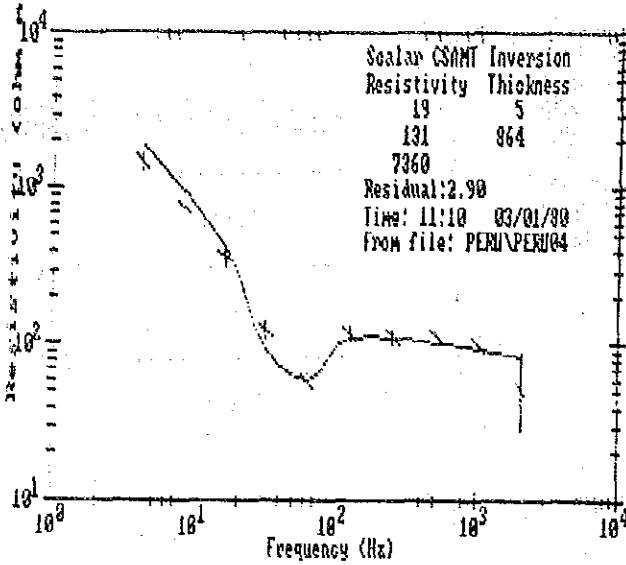
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	208	285
2	119	1185
3	1580	

NO. 48



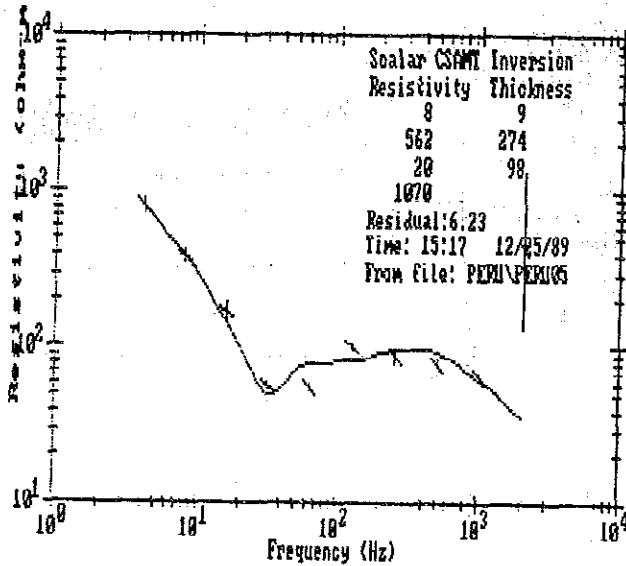
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	48	27
2	360	1097
3	2860	

NO. 49



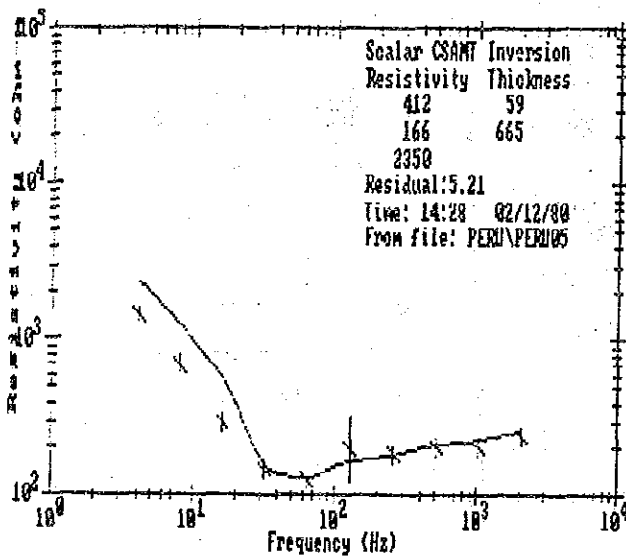
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	19	
		5
2	131	
		869
3	7360	

NO. 50



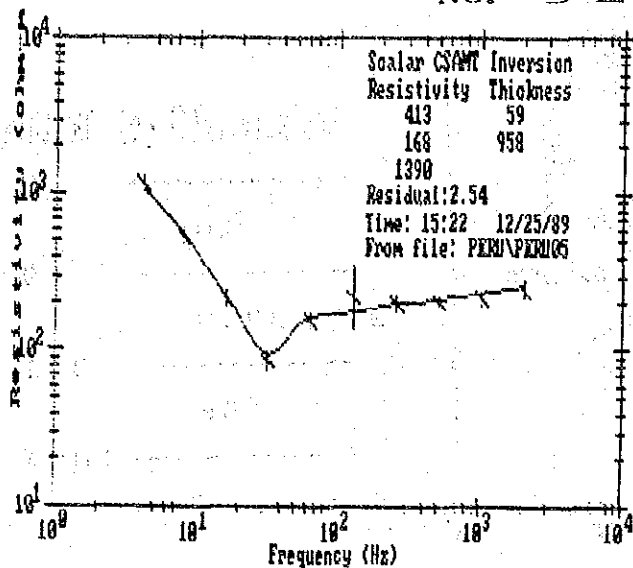
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	8	
		9
2	562	
		283
3	20	
		381
4	1070	

NO. 51



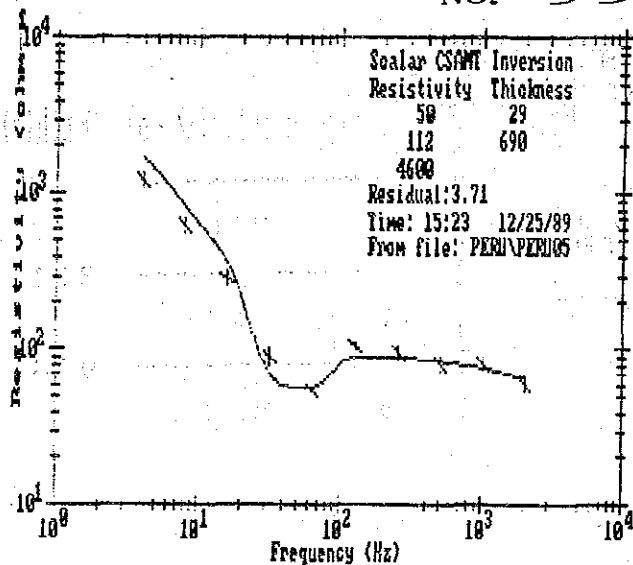
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	412	
		59
2	166	
		724
3	2350	

NO. 52



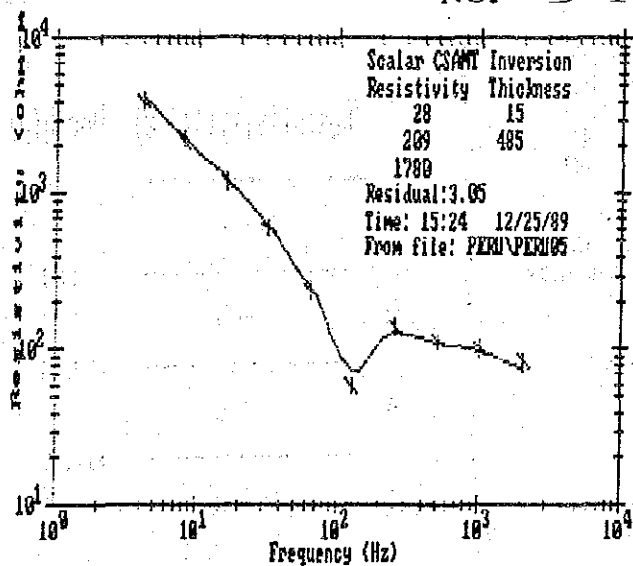
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	413	
		59
2	168	
		1017
3	1390	

NO. 53



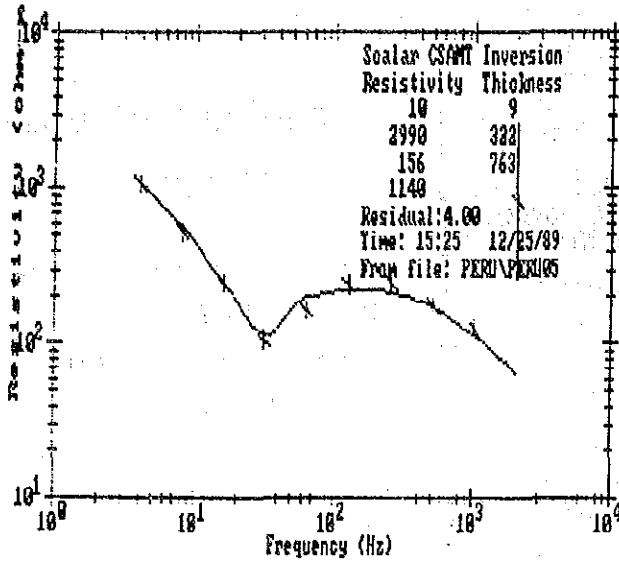
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	50	
		29
2	112	
		719
3	4600	

NO. 54



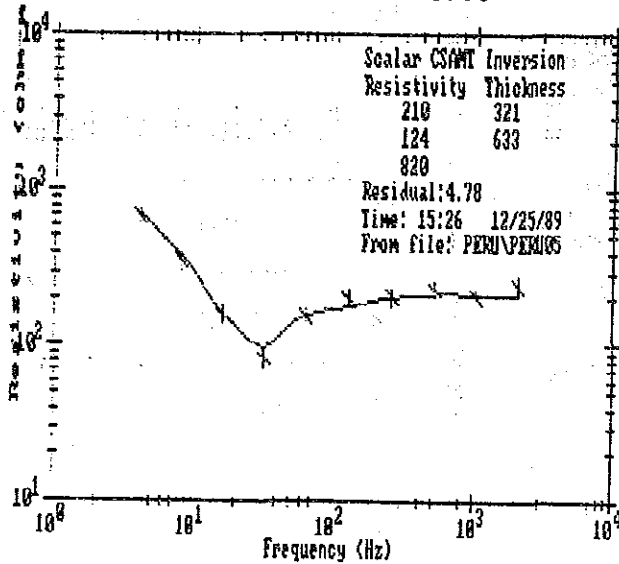
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	28	
		15
2	209	
		500
3	1780	

NO. 55



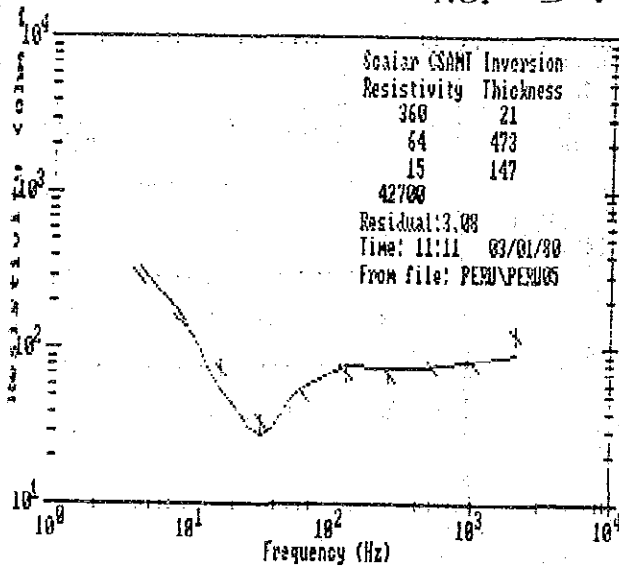
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	10	9
2	2990	331
3	156	1094
4	1140	

NO. 56



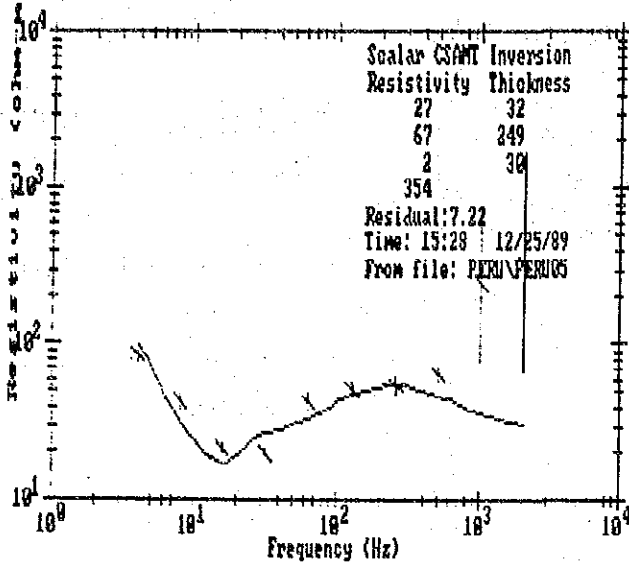
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	210	321
2	124	954
3	820	

NO. 57



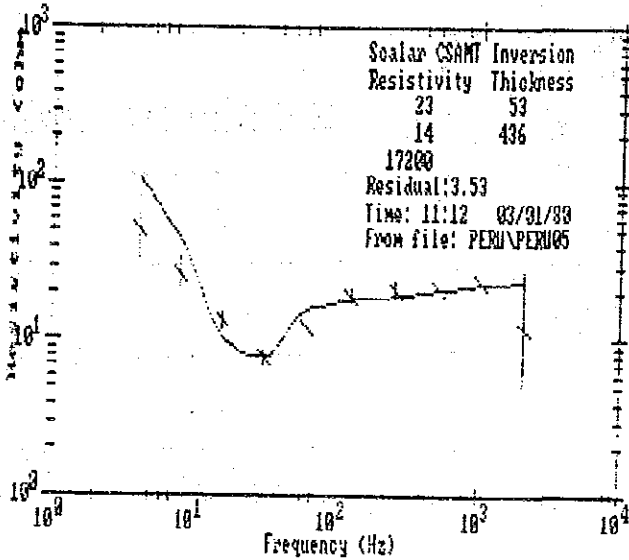
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	360	21
2	64	494
3	15	641
4	V H	

NO. 58



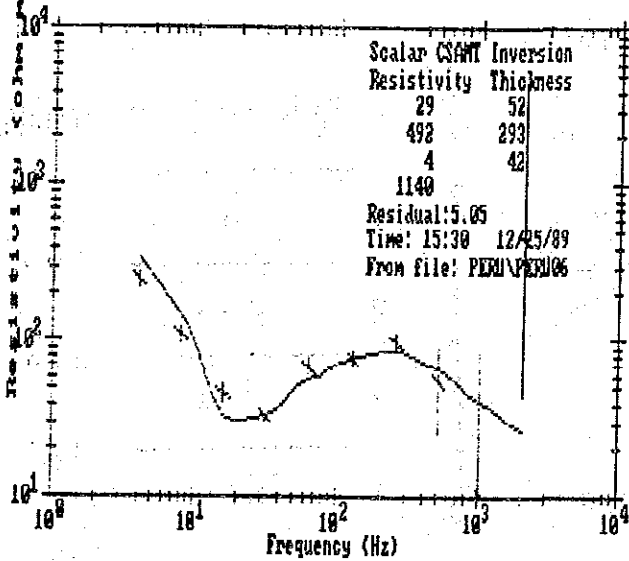
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	27	32
2	67	281
3	2	311
4	354	

NO. 59



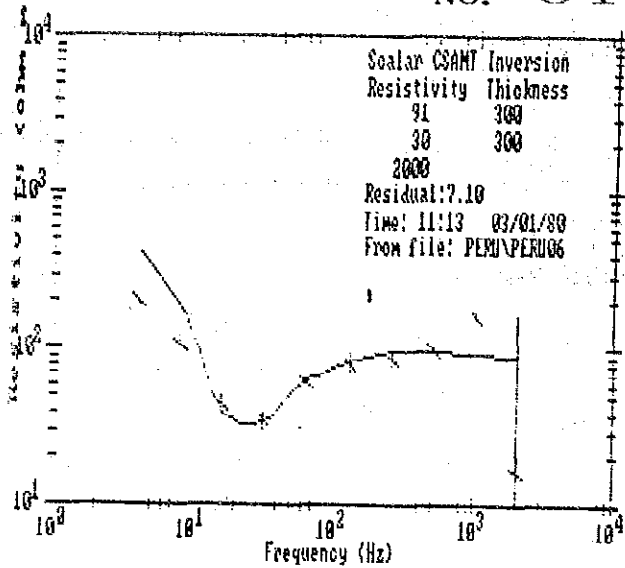
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	23	53
2	14	489
3	V H	

NO. 60



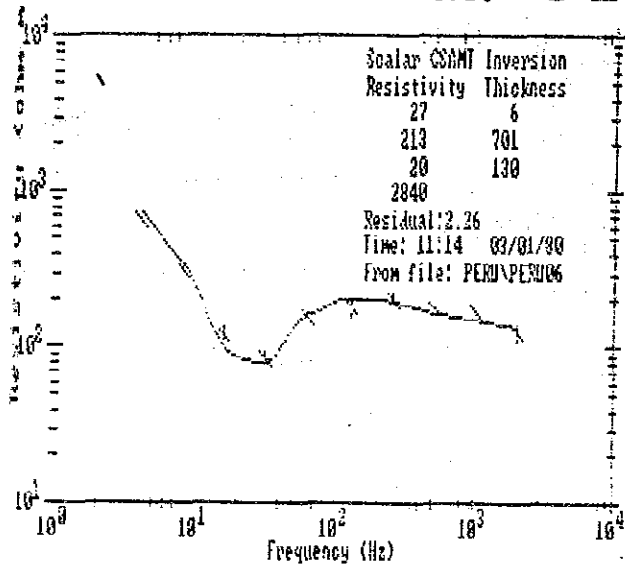
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	29	52
2	492	345
3	4	387
4	1140	

NO. 6 1



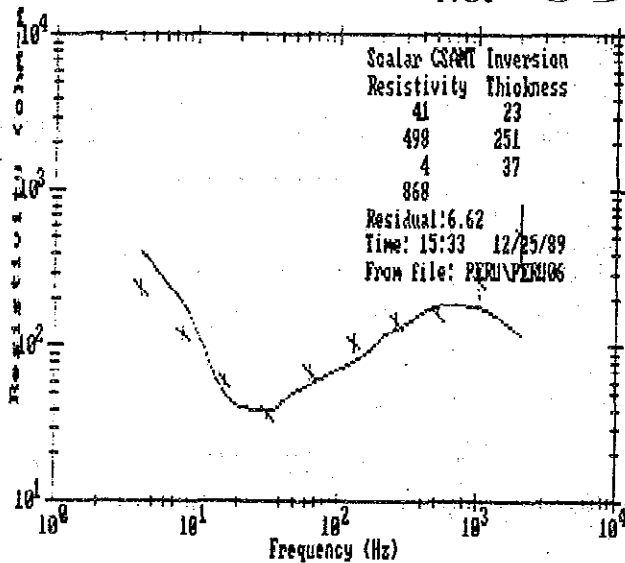
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	91	300
2	30	600
3	2000	

NO. 6 2



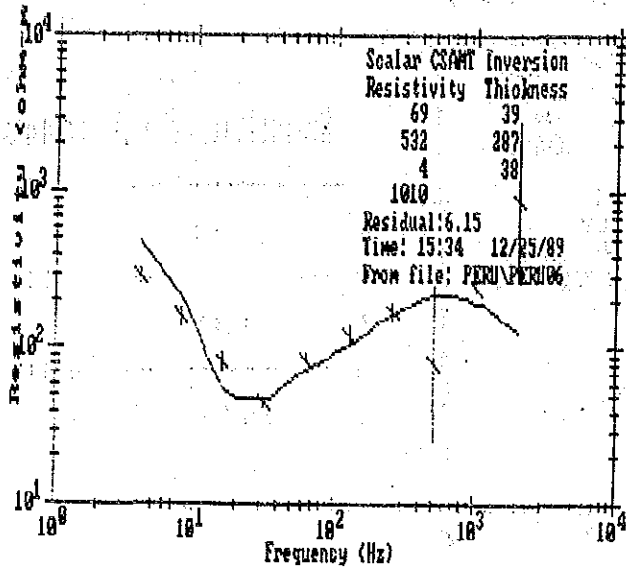
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	27	6
2	213	707
3	20	837
4	2840	

NO. 6 3



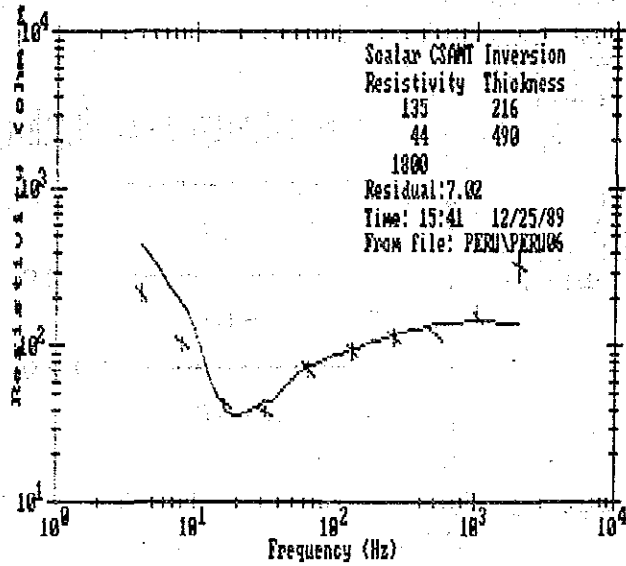
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	41	23
2	498	274
3	4	311
4	868	

NO. 64



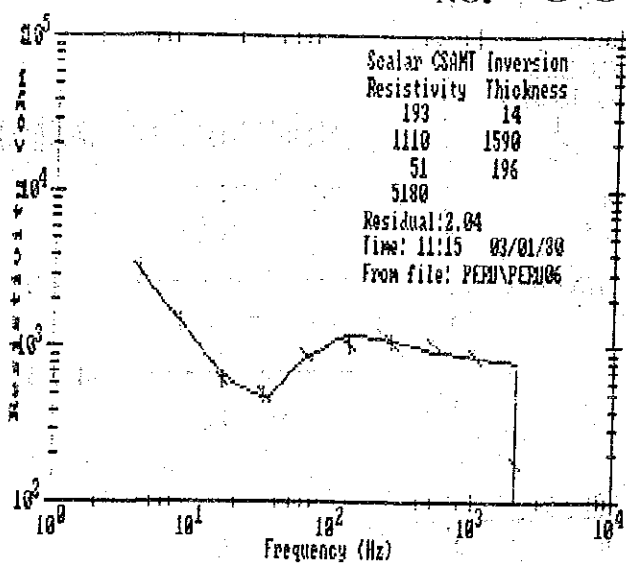
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	69	39
2	532	326
3	4	364
4	1010	

NO. 65



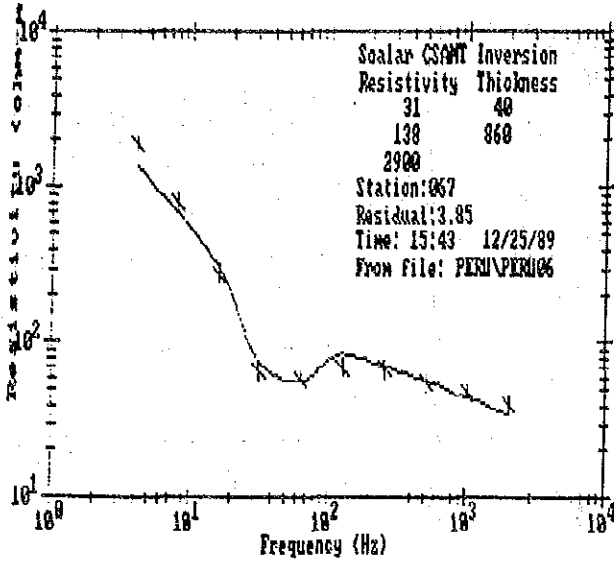
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	135	216
2	44	706
3	1800	

NO. 66



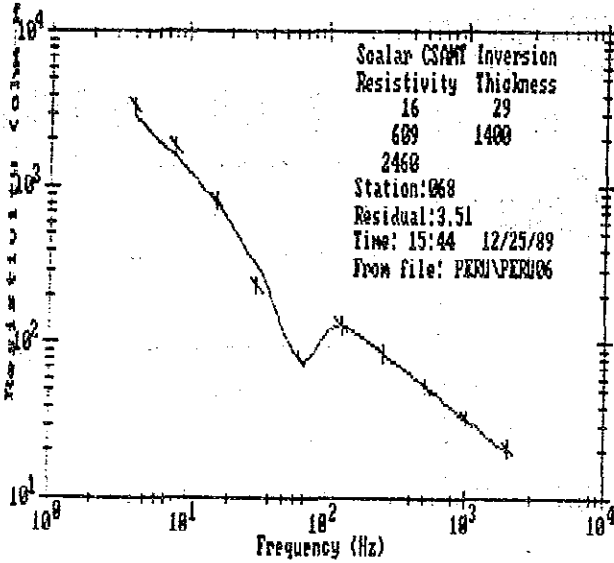
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	193	14
2	1110	1604
3	51	1800
4	5180	

NO. 67



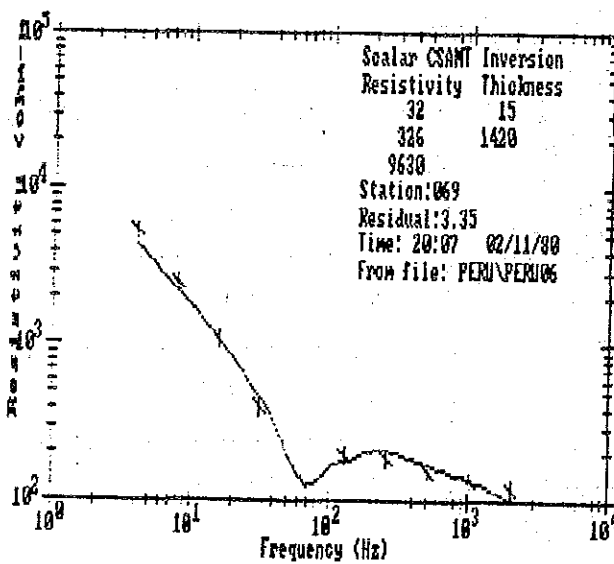
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	31	40
2	138	360
3	2900	900

NO. 68



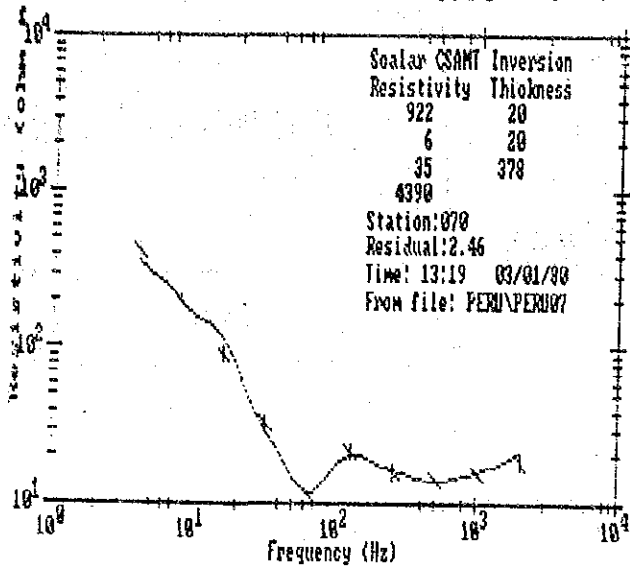
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	16	29
2	609	1429
3	2460	

NO. 69



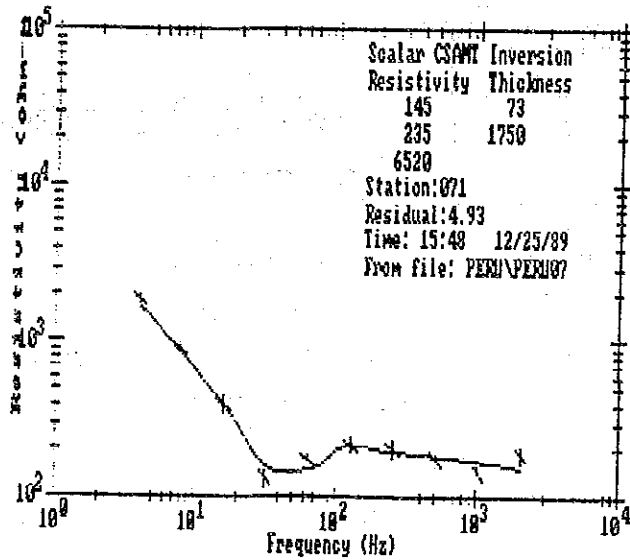
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	32	15
2	326	1435
3	9630	

NO. 70



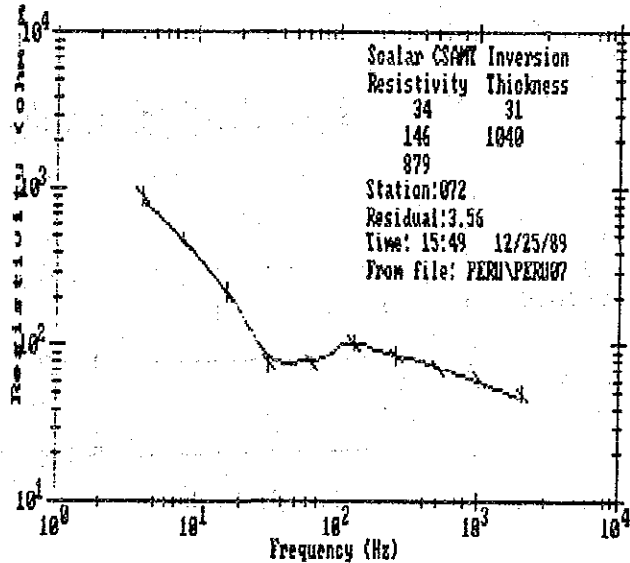
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	922	20
2	6	40
3	35	418
4	4390	

NO. 71



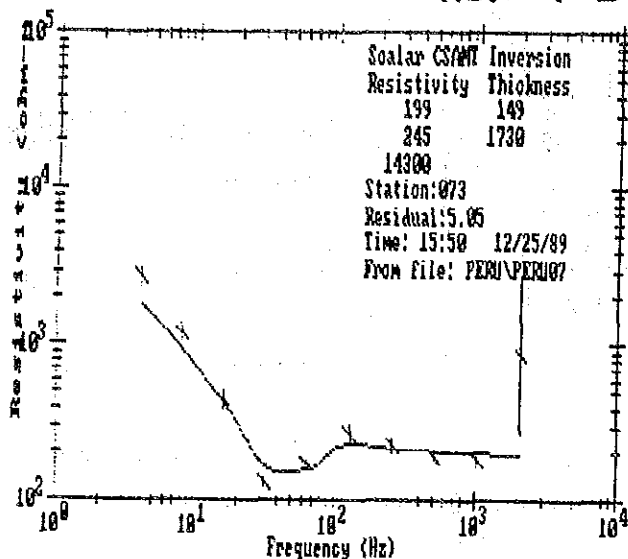
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	145	73
2	235	1823
3	6520	

NO. 72



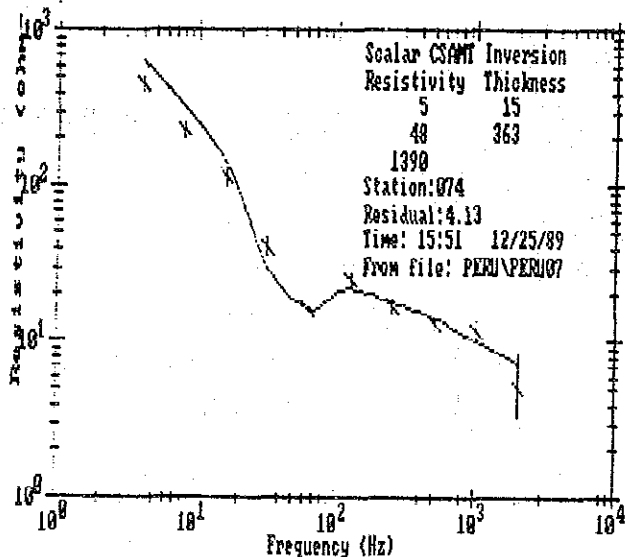
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	34	31
2	146	1071
3	879	

NO. 73



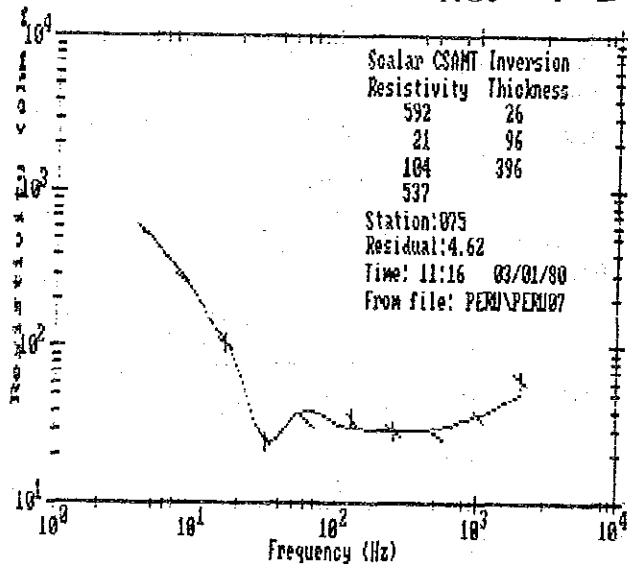
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	199	
		149
2	245	
		1879
3	V H	

NO. 74



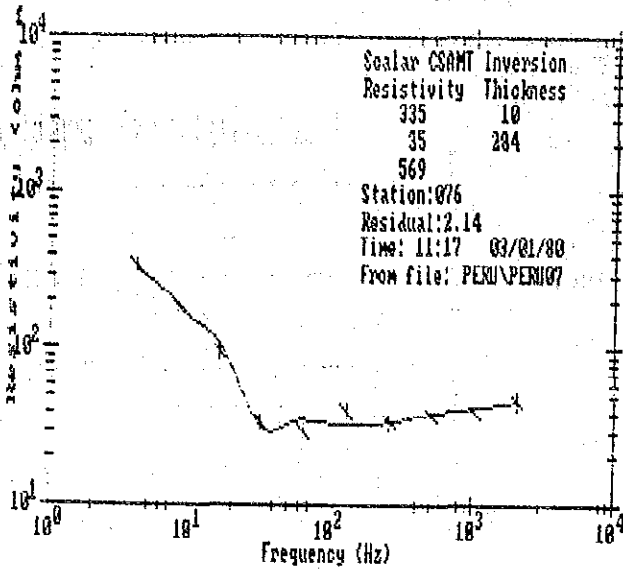
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	5	
		15
2	48	
		378
3	1390	

NO. 75



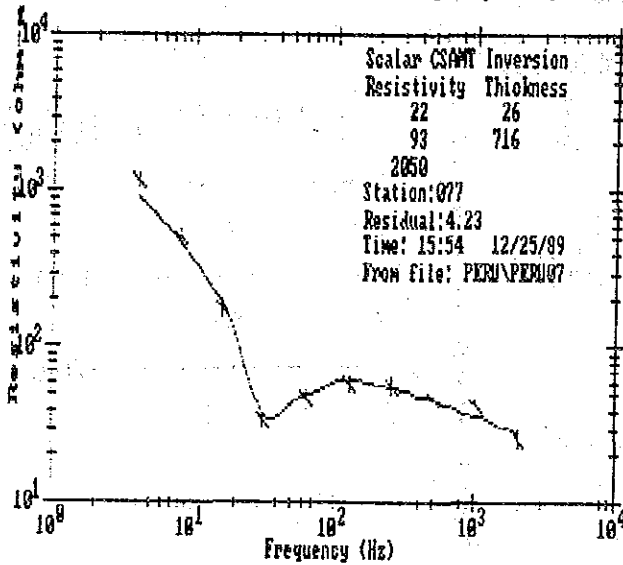
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	592	
		26
2	21	
		122
3	104	
		518
4	537	

NO. 76



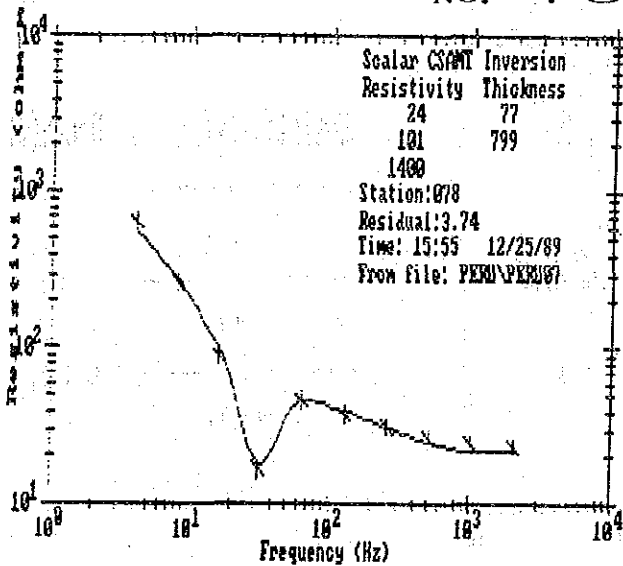
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	335	10
2	35	284
3	569	

NO. 77



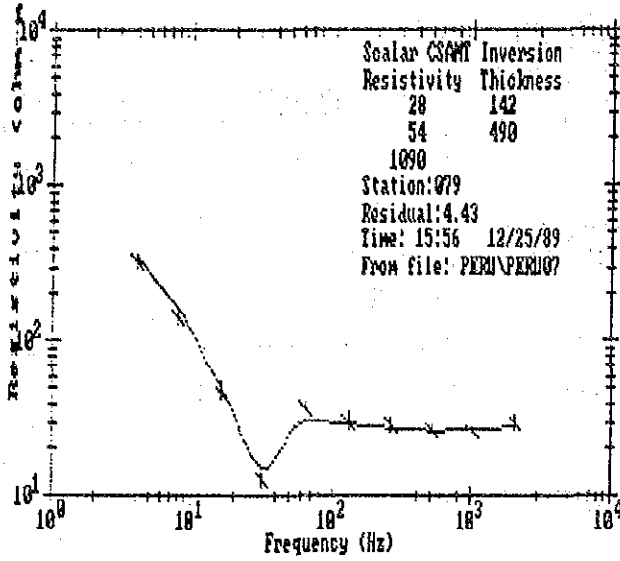
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	22	26
2	93	742
3	2050	

NO. 78



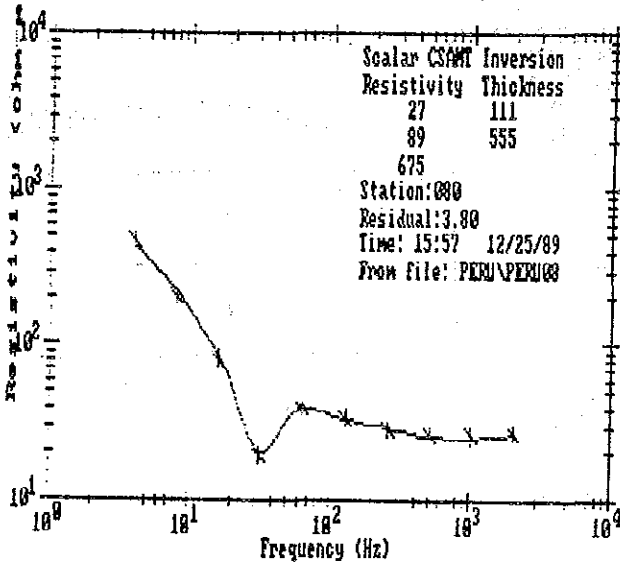
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	24	77
2	101	876
3	1400	

NO. 79



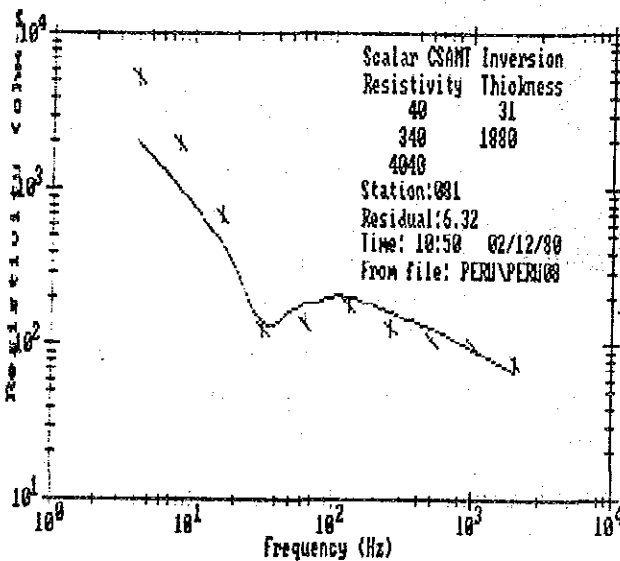
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	28	142
2	54	632
3	1090	

NO. 80



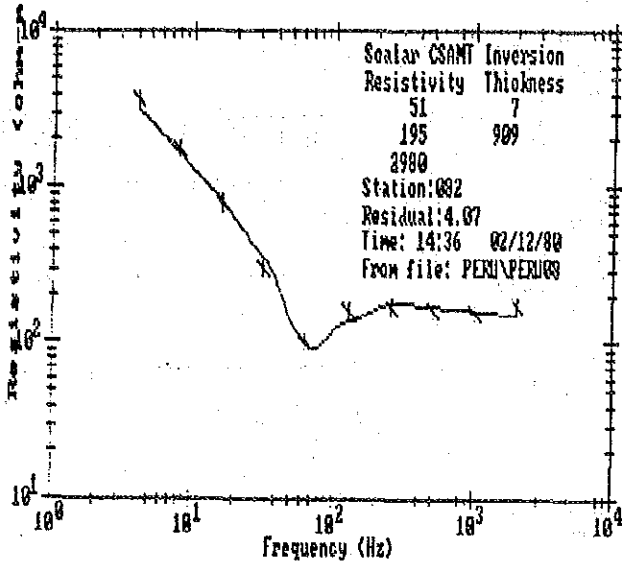
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	27	111
2	89	666
3	675	

NO. 81



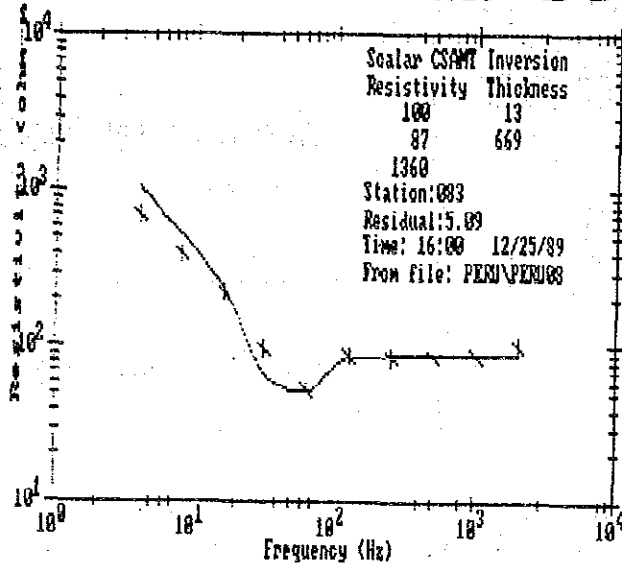
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	40	31
2	340	1911
3	4040	

NO. 82



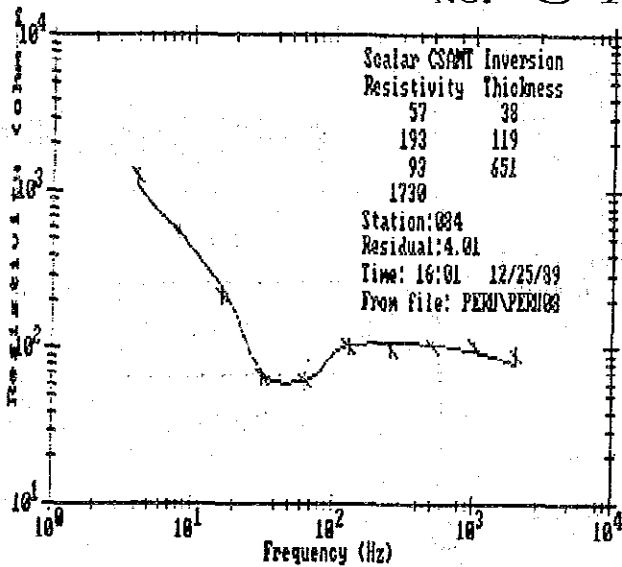
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	51	
		7
2	195	
		916
3	2980	

NO. 83



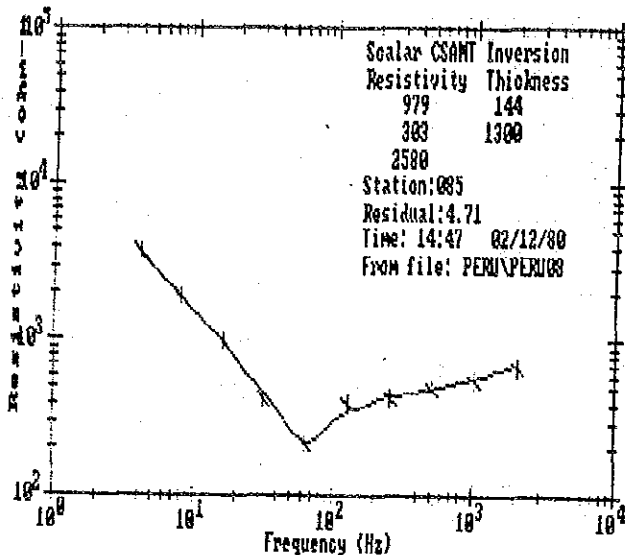
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	100	
		13
2	87	
		682
3	1360	

NO. 84



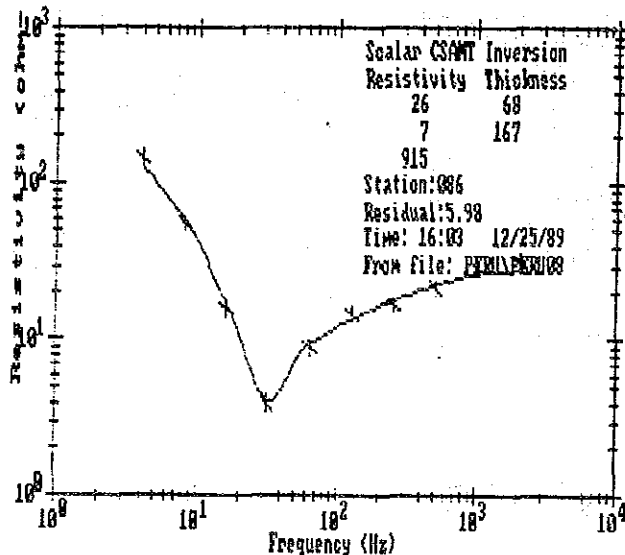
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	57	
		38
2	193	
		157
3	93	
		808
4	1730	

NO. 85



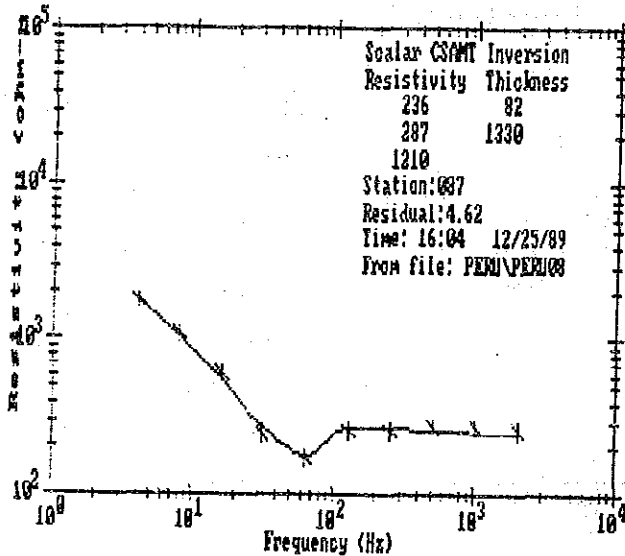
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	979	
		144
2	303	
		1444
3	2580	

NO. 86



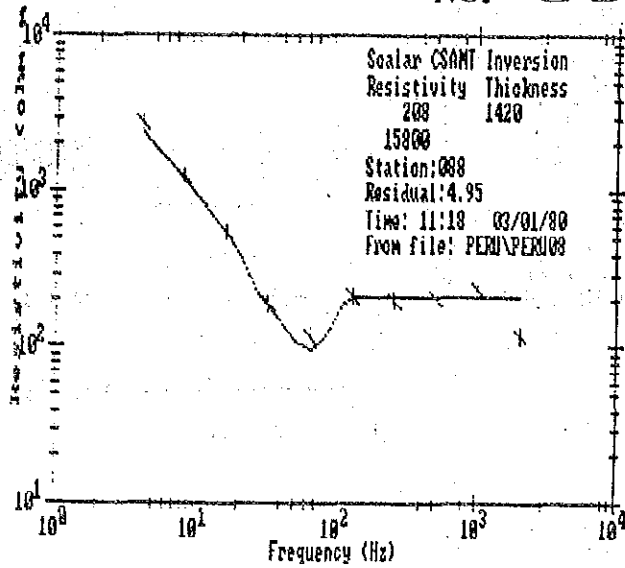
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	26	
		68
2	7	
		235
3	915	

NO. 87



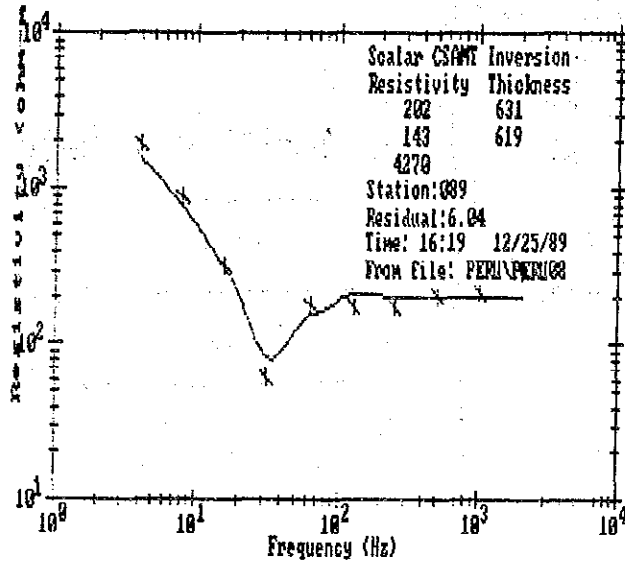
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	236	
		82
2	287	
		1412
3	1210	

NO. 88



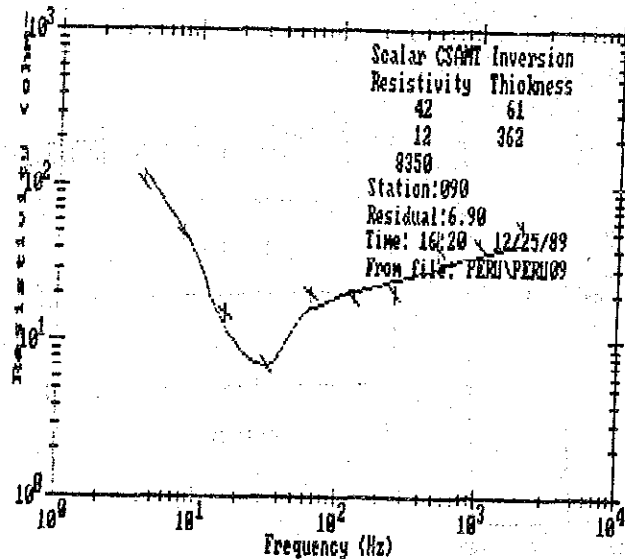
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	208	
		1420
2	V H	

NO. 89



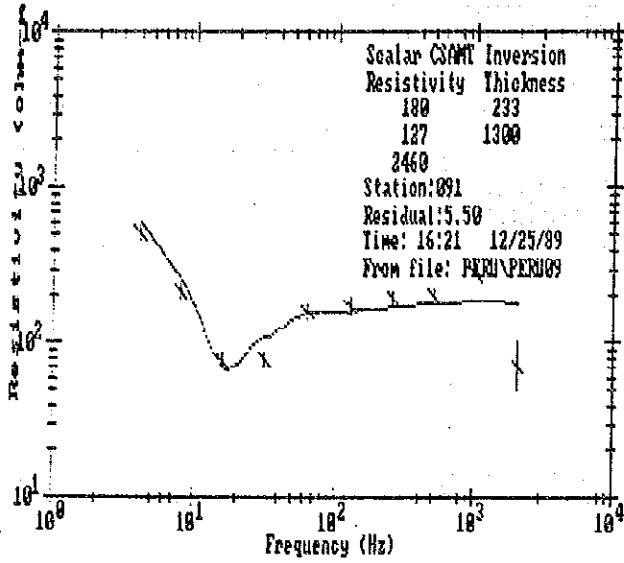
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	202	
		631
2	143	
		1250
3	4270	

NO. 90



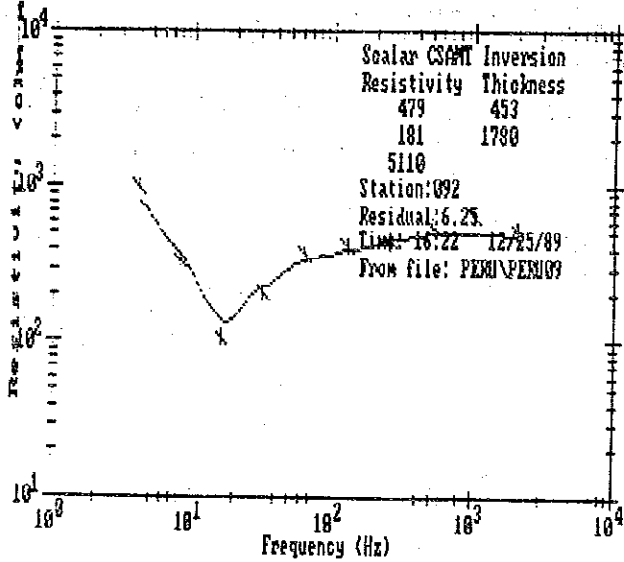
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	42	
		61
2	12	
		423
3	8350	

NO. 9 1



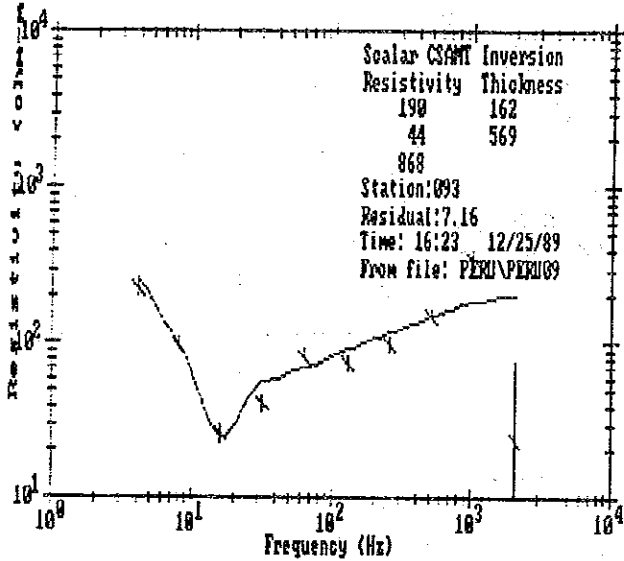
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	180	
		233
2	127	
		1533
3	2460	

NO. 9 2



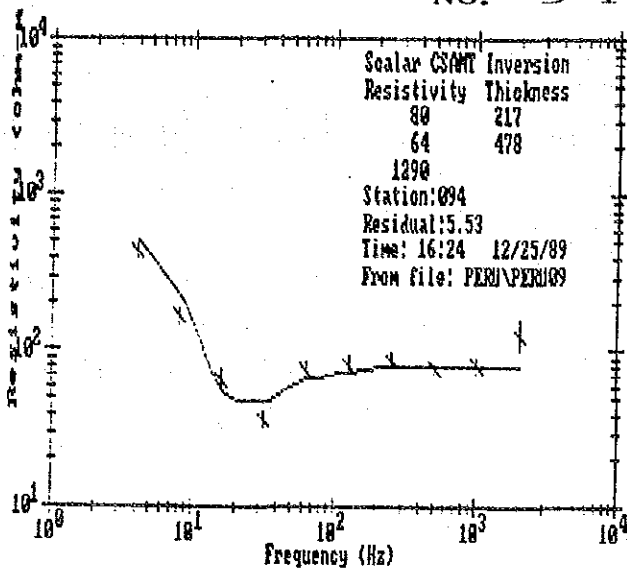
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	479	
		453
2	181	
		2233
3	5110	

NO. 9 3



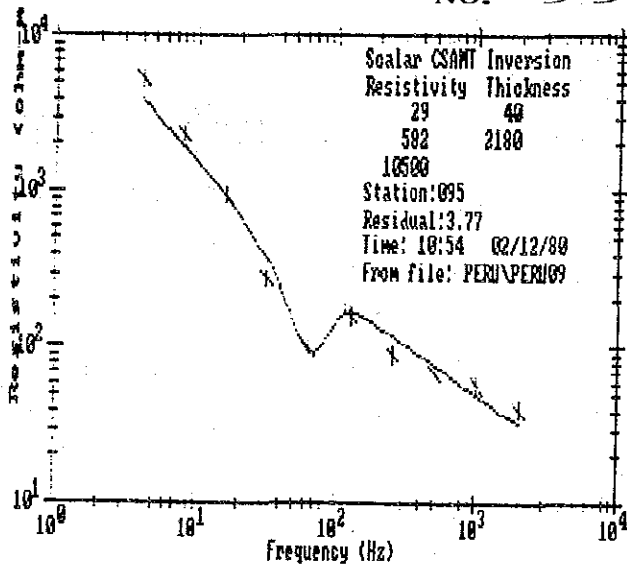
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	190	
		162
2	44	
		731
3	868	

NO. 94



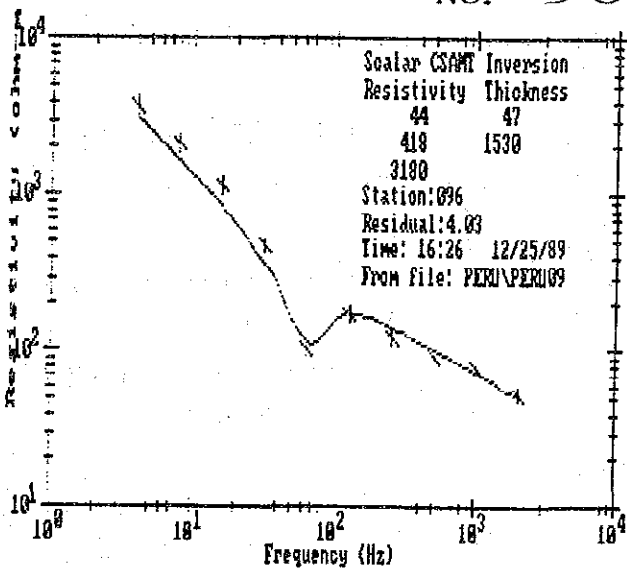
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	80	
		217
2	64	
		695
3	1290	

NO. 95



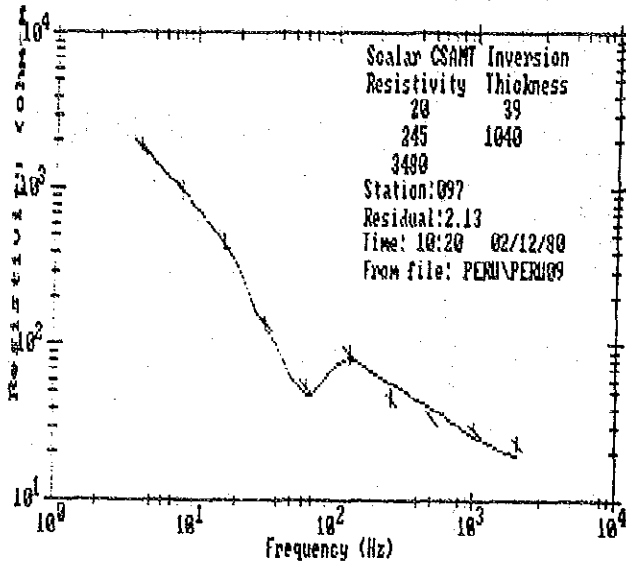
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	29	
		40
2	582	
		2220
3	V H	

NO. 96



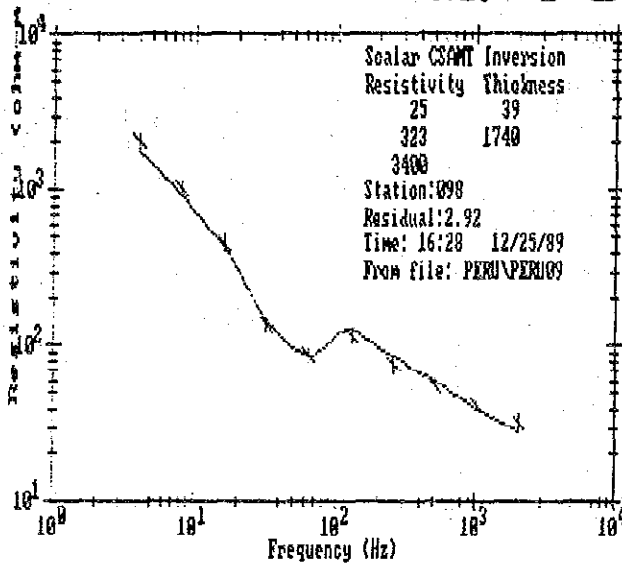
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	44	
		47
2	418	
		1577
3	3180	

NO. 97



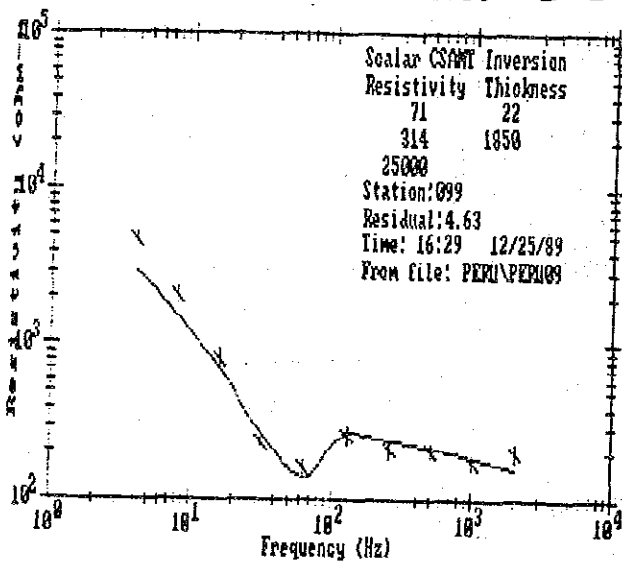
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	20	
		39
2	245	
		1079
3	3480	

NO. 98



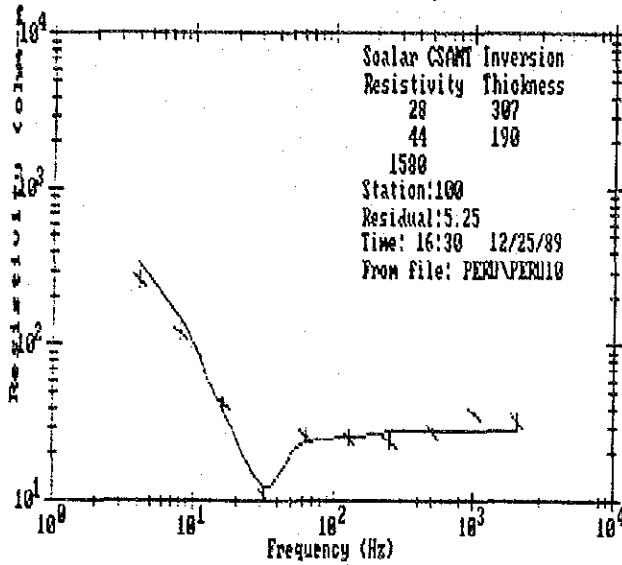
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	25	
		39
2	323	
		1779
3	3400	

NO. 99



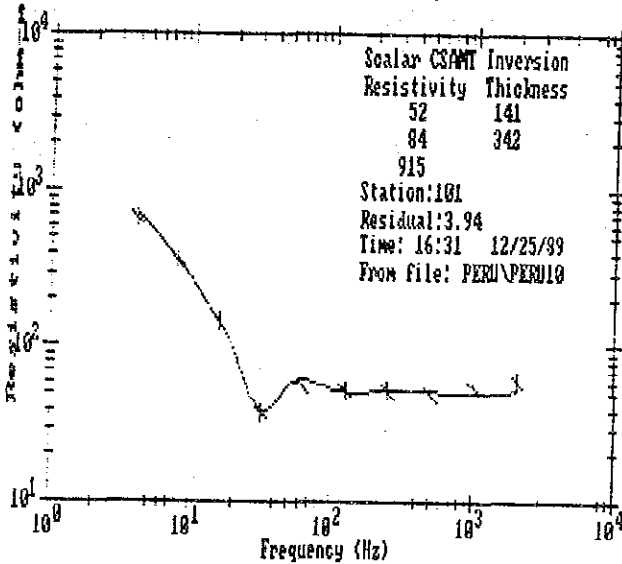
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	71	
		22
2	314	
		1872
3	V H	

NO. 100



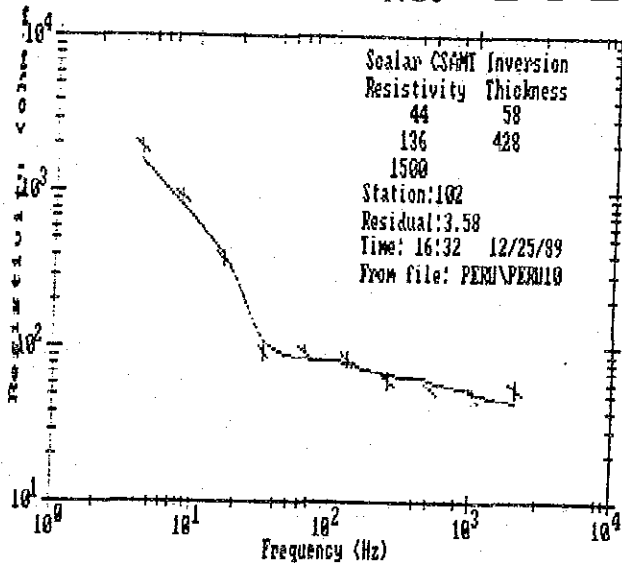
	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	28	
		307
2	44	
		497
3	1580	

NO. 101



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

NO. 102

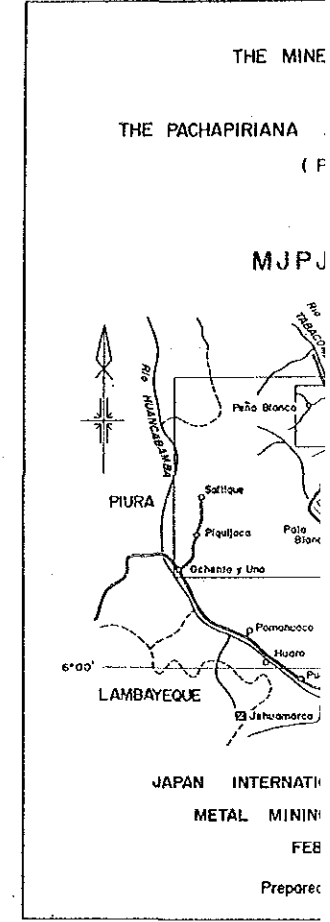


	Resistivity($\Omega \cdot m$)	Depth(m)
		0
1	44	
		58
2	136	
		486
3	1500	

Symbol	Depth	Observation	Alteration										Mineralization										Assay									
			Fracture	Sil	Arg	chl	ep	oth	Py	Cp	Sp	Gr	Ch	Py	Cp	Sp	Gr	Ch	Au	Ag	Cu	Pb	Zn	Mo								
	10	weathering of fault																														
	20	weathering limo if																														
	35	weathering limo if																														
	47																															
	54																															
	70																															
	80																															
	100																															
	110																															
	120																															
	130																															
	140																															
	150																															
	160																															
	170																															
	180																															
	190																															
	200																															

Symbol	Depth	Observation	Alteration										Mineralization										Assay									
			Fracture	Sil	Arg	chl	ep	oth	Py	Cp	Sp	Gr	Ch	Py	Cp	Sp	Gr	Ch	Au	Ag	Cu	Pb	Zn	Mo								
	20																															
	30																															
	40																															
	50																															
	60																															
	70																															
	80																															
	90																															
	100																															
	110																															
	120																															
	130																															
	140																															
	150																															
	160																															
	170																															
	180																															
	190																															
	200																															

Symbol	Depth	Observation	Alteration										Mineralization										Assay									
			Fracture	Sil	Arg	chl	ep	oth	Py	Cp	Sp	Gr	Ch	Py	Cp	Sp	Gr	Ch	Au	Ag	Cu	Pb	Zn	Mo								
	20																															
	30																															
	40																															
	50																															
	60																															
	70																															
	80																															
	90																															
	100																															
	110																															
	120																															
	130																															
	140																															
	150																															
	160																															
	170																															
	180																															
	190																															
	200																															



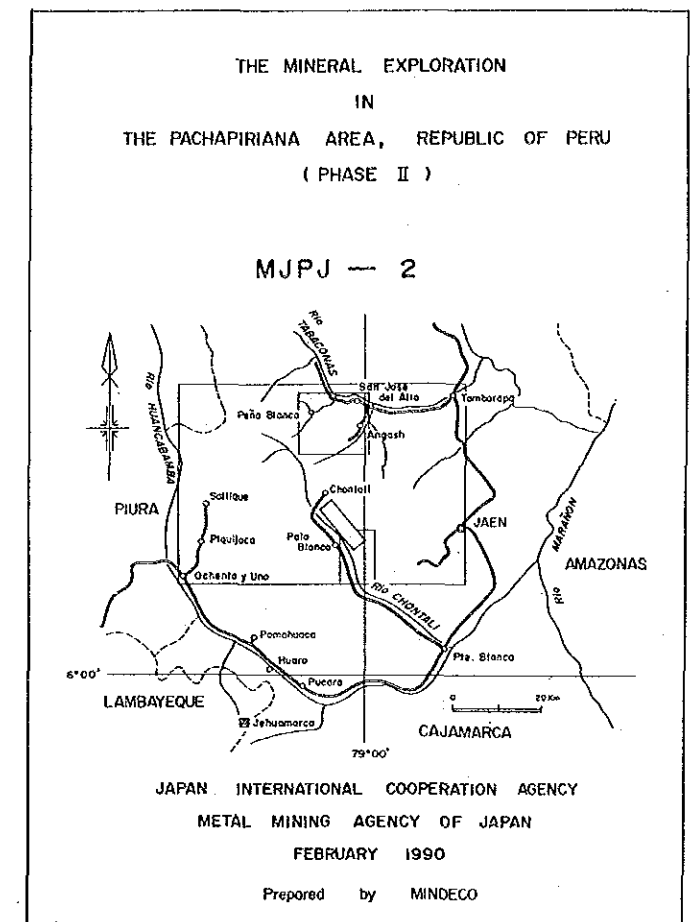
Location : 9°32'S
 Elevation : 3229.
 Direction : 135°

- Symbol
- [Symbol] shale
 - [Symbol] tuff
 - [Symbol] lapilli tuff
 - [Symbol] tuff breccia
 - [Symbol] andesite
 - [Symbol] brecciated rock
 - [Symbol] fault breccia
 - [Symbol] sheared zone
 - [Symbol] quartz zone
 - [Symbol] missing zone
 - [Symbol] 15 intersected angle of v
 - [Symbol] 250 intersected angle of b
 - sh shale
 - if tuff or tuffaceous
 - lp-tf lapilli tuff
 - lf-bre tuff breccia
 - Sil silicification
 - Arg argillization
 - chl chloritization
 - ep epidolization
 - oth others
 - wk weak

Observation	Alteration					Mineralization					Assay						
	Si	Arg	chl	ep	oth	Py	Cp	Trh	Sp	Gn	Au g/t	Ag g/t	Cu %	Pb %	Zn %	Mo ppm	
...	+	+	+	+	+	+	+	+	+	+	1.10	0.90	8.027	0.05	0.12	10	
...	+	+	+	+	+	+	+	+	+	+	1.75	1.20	326	2.15	0.40	0.60	17
...	+	+	+	+	+	+	+	+	+	+	2.30	1.15	354	2.42	0.60	0.40	10
...	+	+	+	+	+	+	+	+	+	+	0.567	4.007	0.04	0.09	0.12	12	
...	+	+	+	+	+	+	+	+	+	+	0.633	33	0.04	0.47	1.10	1.4	

Symbol	Depth	Observation	Alteration					Mineralization					Assay					
			Si	Arg	chl	ep	oth	Py	Cp	Trh	Sp	Gn	Au g/t	Ag g/t	Cu %	Pb %	Zn %	Mo ppm
	110	Silt wk Arg wk chl ip if	+	+	+	+	+	+	+	+								
	120	Silt wk Arg wk chl ip if	+	+	+	+	+	+	+	+								
	130	Silt wk Arg wk chl ip if	+	+	+	+	+	+	+	+	1.55	0.067	13	0.51	0.10	0.18	1	
	140	Silt wk Arg wk chl ip if	+	+	+	+	+	+	+	+	1.55	0.033	11	0.41	0.09	0.50	4	
	150	Silt wk Arg wk chl ip if	+	+	+	+	+	+	+	+	1.65	0.133	15	0.98	0.04	0.50	1	
	160	Silt wk Arg wk chl ip if	+	+	+	+	+	+	+	+	1.2	0.333	8	0.23	0.03	0.48	5	
	170	Silt wk Arg wk chl ip if	+	+	+	+	+	+	+	+	1.1	0.300	10	0.23	0.05	0.80	4	
	180	Silt wk Arg wk chl ip if	+	+	+	+	+	+	+	+	1.03	0.133	6	0.1	0.28	2.4	7	
	190	Silt wk Arg wk chl ip if	+	+	+	+	+	+	+	+	1.7	0.01	0.43	1.5	6			
	200	Silt wk Arg wk chl ip if	+	+	+	+	+	+	+	+	2.35	0.167	9	0.01	0.45	1.0	9	

Symbol	Depth	Observation	Alteration					Mineralization					Assay					
			Si	Arg	chl	ep	oth	Py	Cp	Trh	Sp	Gn	Au g/t	Ag g/t	Cu %	Pb %	Zn %	Mo ppm
	210	Silt wk Arg wk chl ip if	+	+	+	+	+	+	+	+								
	220	Silt wk Arg wk chl ip if	+	+	+	+	+	+	+	+								
	230	Silt wk Arg wk chl ip if	+	+	+	+	+	+	+	+	1.55	0.067	13	0.51	0.10	0.18	1	
	240	Silt wk Arg wk chl ip if	+	+	+	+	+	+	+	+	1.55	0.033	11	0.41	0.09	0.50	4	
	250	Silt wk Arg wk chl ip if	+	+	+	+	+	+	+	+	1.65	0.133	15	0.98	0.04	0.50	1	
	260	Silt wk Arg wk chl ip if	+	+	+	+	+	+	+	+	1.2	0.333	8	0.23	0.03	0.48	5	
	270	Silt wk Arg wk chl ip if	+	+	+	+	+	+	+	+	1.1	0.300	10	0.23	0.05	0.80	4	
	280	Silt wk Arg wk chl ip if	+	+	+	+	+	+	+	+	1.03	0.133	6	0.1	0.28	2.4	7	
	290	Silt wk Arg wk chl ip if	+	+	+	+	+	+	+	+	1.7	0.01	0.43	1.5	6			
	300	Silt wk Arg wk chl ip if	+	+	+	+	+	+	+	+	2.35	0.167	9	0.01	0.45	1.0	9	



Location : 9°32'59.80"N , 69°52'27.4"E
Elevation : 3229.39m
Direction : 135° Inclination : -75°

LEGEND

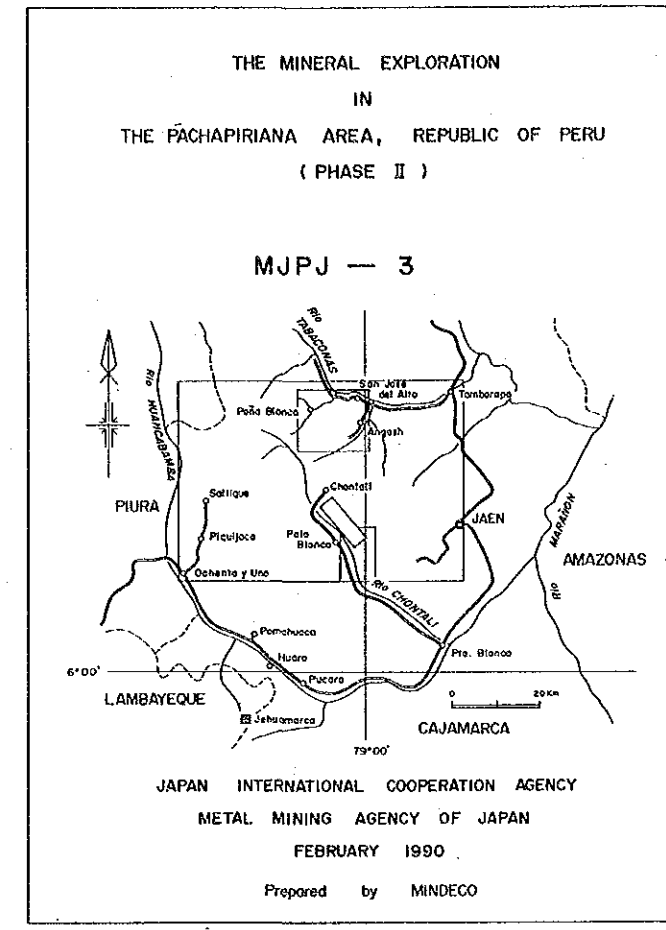
Symbol	Intensity of alteration and mineralization
shale	- weak
tuff	+ moderate
lapilli tuff	++ strong
tuff breccia	() sporadically
andesite	
brecciated rock	
fault breccia	
sheared zone	
quartz zone	
missing zone	
∠ is	intersected angle of vein
∠ so	intersected angle of bedding plane

sh	shale	py	pyrite
if	tuff or tuffaceous	Cp	chalcocopyrite
lp-if	lapilli tuff	Trh	tetrahedrite
if-bre	tuff breccia	Sp	sphalerite
		Gn	galena
		cc	chalcocite
		Bn	bornite
		limo	limonite or limonitized
		Hm	hematite
		Hb	hornblende
		Qtz	quartz
		dr	drusy
		v	vein

Apx. 16 Geological Drilling Log in the Jehuamarca Area (2)

Depth	Observation	Alteration										Assay						
		Fracture	Sil	Arg	Chl	Ep	Py	Cp	Trh	Sp	Gn	oth	Au g/t	Ag g/t	Cu %	Pb %	Zn %	Mo ppm
0-10	limo brecciated sil rock limo brecciated sil rock, bearing sil																	
10-20	limo sil Arg ip if 30 dr-Qtz Py v. 0.2-0.3cm 30 dr-Qtz Py ce 0.2-0.5cm																	
20-30	15' sil breccia zone 15 limo brecciated sil zone 50 12.7-12.95 limo dr Qtz v. 20 Sil Arg if 40 dr-Qtz white clay Py Sp 0.8cm 40 Qtz Py 0.5cm																	
30-40	fault breccia 10cm (post mineralization) 20 0-21.5 crystal Qtz druse abundant																	
40-50	crystal Qtz abundant limo sil Arg ip if limo dr-Qtz Py cp 0.8-1.2cm limo dr-Qtz Py cp 0.8-1.2cm 25.15-25.8 dr-Qtz abundant 45 st limo sil breccia zone, crystal Qtz druse bearing																	
50-60	limo sil Arg ip if limo sil breccia zone limo crystal Qtz druse abundant																	
60-70	limo sil Arg ip if limo dr-Qtz 1-3cm limo brecciated zone Sil Arg brecciated zone leached Z																	
70-80	limo dr-Qtz 3cm + limo Hm with tra 2cm 42.75 sample limo clay Py 2cm black clay 0.5cm 46.3-48.5 clay zone limo Qtz 0.5-1.0cm limo clay km +																	
80-90	Sil-wk Arg breccia zone crystal Qtz druse limo clay 10cm limo clay 0.4cm clay 5cm ip if breccia abundant 56.95-57.05 limo network Sil Arg-wk chl breccia zone limo clay 1cm +																	
90-100	Sil-wk Arg ip if py v. 0.6cm Sil-wk Arg chl breccia zone crystal Qtz druse moderate abund. 73.3 breccia ip if 20if Sil-wk Arg ip if Sil-wk Arg chl breccia zone breccia ip if dominant Sil Arg breccia zone breccia ip if > if Sil Arg breccia zone breccia ip if dominant																	

Depth	Observation	Alteration										Assay						
		Fracture	Sil	Arg	Chl	Ep	Py	Cp	Trh	Sp	Gn	oth	Au g/t	Ag g/t	Cu %	Pb %	Zn %	Mo ppm
0-10	Sil Arg-wk chl breccia zone breccia ip if dominant 40 grey clay 1cm + Sil Arg chl breccia zone partly druse with crystal Qtz and Py breccia ip if dominant																	
10-20	20 Sil Arg ip if 20 dr-py 2.5-3.2cm 20 dr-py 1.5-2cm																	
20-30	50 dr-Qtz py sp Gn 20cm 122.1-122.2cm 50 Qtz-py network with sp Gn 20 dr-Qtz py sp 0.8cm dr-Qtz py sp 0.4cm clay 25 dr-Qtz py sp Gn 0.5-0.8cm dr-Qtz py sp 0.8cm																	
30-40	dr-Qtz py sp 1.3cm dr-Qtz py sp 1.2cm white clay 1.5cm + dr-Qtz white clay py sp 2.5cm sample																	
40-50	Sil Arg ip if white clay py 1cm + Sil Arg ip if dr-Qtz py sp 1.2cm Qtz py sp 20-35cm Sil Arg chl if Qtz py sp 1.2cm Qtz clay py sp Gn 0.8cm + Sil Arg chl ip if																	
50-60	Sil Arg chl if dr-Qtz network with py sp dr-Qtz py sp Gn 1.0-1.5cm Sil Arg chl if dr-Qtz py sp 0.3cm dr-Qtz py sp 0.6cm Qtz py sp Gn 0.8cm dr-Qtz py sp 0.5cm Qtz py sp 0.5cm dr-Qtz py sp Gn 0.8-1.2cm																	
60-70	dr-Qtz py sp Gn 0.8-1.0cm dr-Qtz py sp 0.6cm sample Sil Arg chl if dr-Qtz py sp 0.6-1.0cm dr-Qtz clay py sp 1.2cm +																	
70-80	Sil Arg ip if Sil Arg ip if block clay 5cm Sil Arg if dr-Qtz py sp 0.2-0.8cm Sil Arg if dr-Qtz py sp 0.4cm dr-Qtz py sp 0.2-0.6cm dr-Qtz py sp 0.3-0.5cm Sil Arg chl if dr-Qtz py sp 0.6cm Qtz py sp 0.2-0.4cm Qtz rhodochrosite py sp Gn 0.2cm																	
80-90	Sil Arg ip if Sil Arg chl ip if dr-Qtz py sp 0.3-0.8cm partly laminated Sil Arg chl ip if laminated Sil Arg chl ip if white clay py sp 1cm Sil Arg chl ip if laminated Sil chl if rhodochrosite v. let net bearing Sil chl ip if rhodochrosite py sp Gn 0.2cm Sil chl if rhodochrosite v. let net bearing dr-Qtz rhodochrosite py sp 0.2-0.4cm Sil Arg chl ip if																	
90-100	Sil chl if bre Sil Arg if bre Sil Arg chl ip if wk laminated dr-Qtz Py Sp Gn 0.5cm																	



Location : 9°32'6.373"N , 69°47'27"E
Elevation : 3224.08m
Direction : — Inclination - 90°

LEGEND

Symbol	Intensity of alteration and mineralization
[Symbol]	— weak
[Symbol]	+ moderate
[Symbol]	++ strong
[Symbol]	() sporadically
[Symbol]	sh shale
[Symbol]	tf tuff or tuffaceous
[Symbol]	ip-if lapilli tuff
[Symbol]	tf-bre tuff breccia
[Symbol]	Sil silicification
[Symbol]	Arg argillization
[Symbol]	chl chloritization
[Symbol]	ep epidolization
[Symbol]	oth others weak
[Symbol]	py pyrite
[Symbol]	Cp chalcocopyrite
[Symbol]	Trh tetrahedrite
[Symbol]	Sp sphalerite
[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

Ap. 16 Geological Drilling Log in the Jehumarca Area (3)

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 ϕ 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

Apx. 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
Gasorin 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
	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

Ap. 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

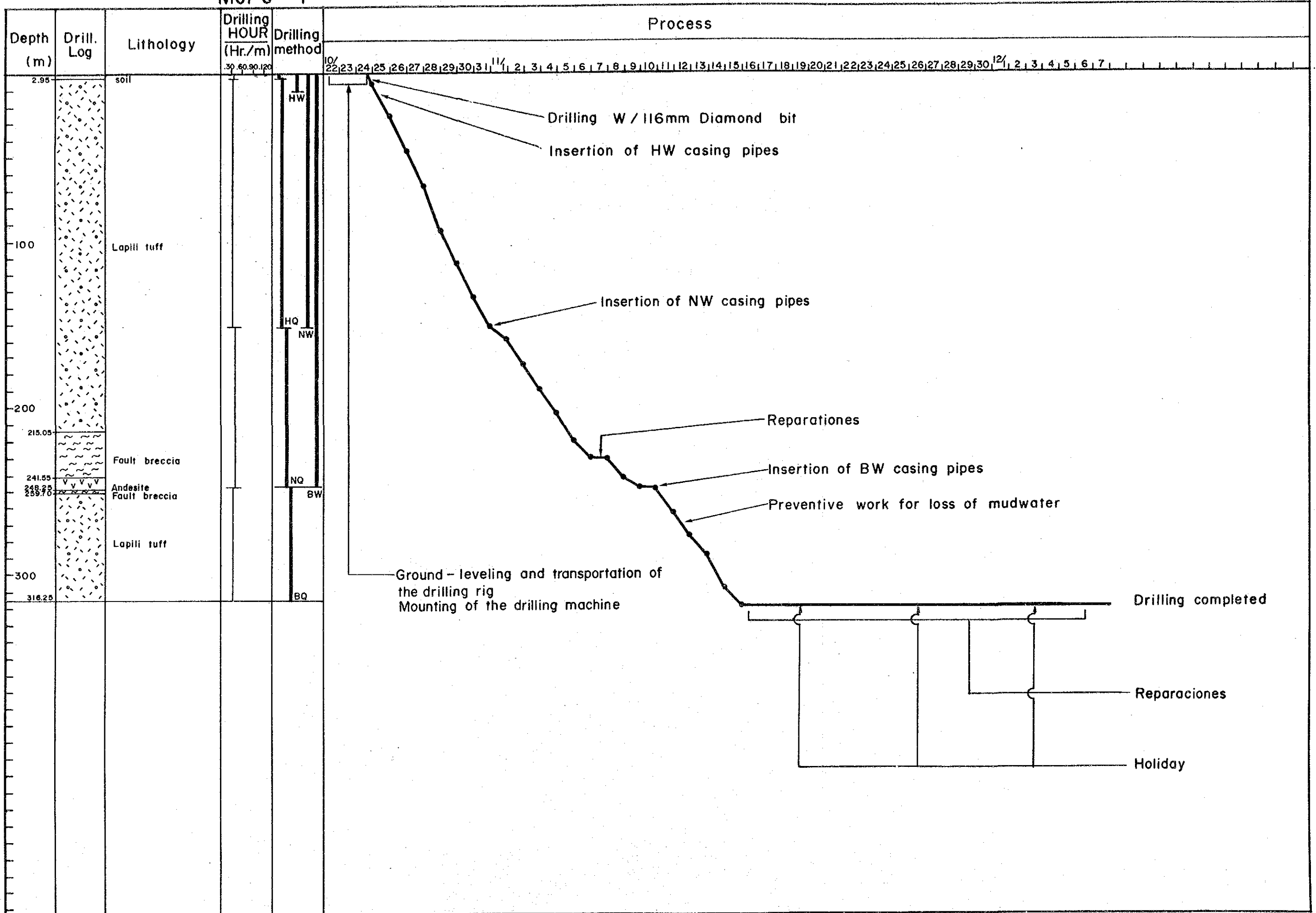
Working Period	Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers	
	Preparation	23. Jul. '89~27. Sep. '89		65.5	19.5	46	1,055
Drilling	26. Sep. '89~20. Oct. '89		24.5	24.5	--	518	
Removing	21. Oct. '89~21. Oct. '89		1	1	--	21	
Total	23. Jul. '89~21. Oct. '89		91	45	46	1,594	
Drilling Length	Planned Length	300.00 m	Overburden	--	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		12.24m/day
	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			

Ap. 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		
Total	8. Dec. '89~23. Dec. '89		16	16	—	412		
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	
	Total	256h	100%	72.7%	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		
G. Total	352h	—	100.0%	/ 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%	Remarks				
	BW 169.65 m	84.8%	100.0%	G : Grand				
				I.T. : Inner Tube				

MJPJ - I PROGRESS RECORD OF DIAMOND DRILLING



MJPJ-2 PROGRESS RECORD OF DIAMOND DRILLING

