

HYDROMETER TEST

Project :

Bore No. P1

Location : Mersin

Depth (m) : Basın Üstü

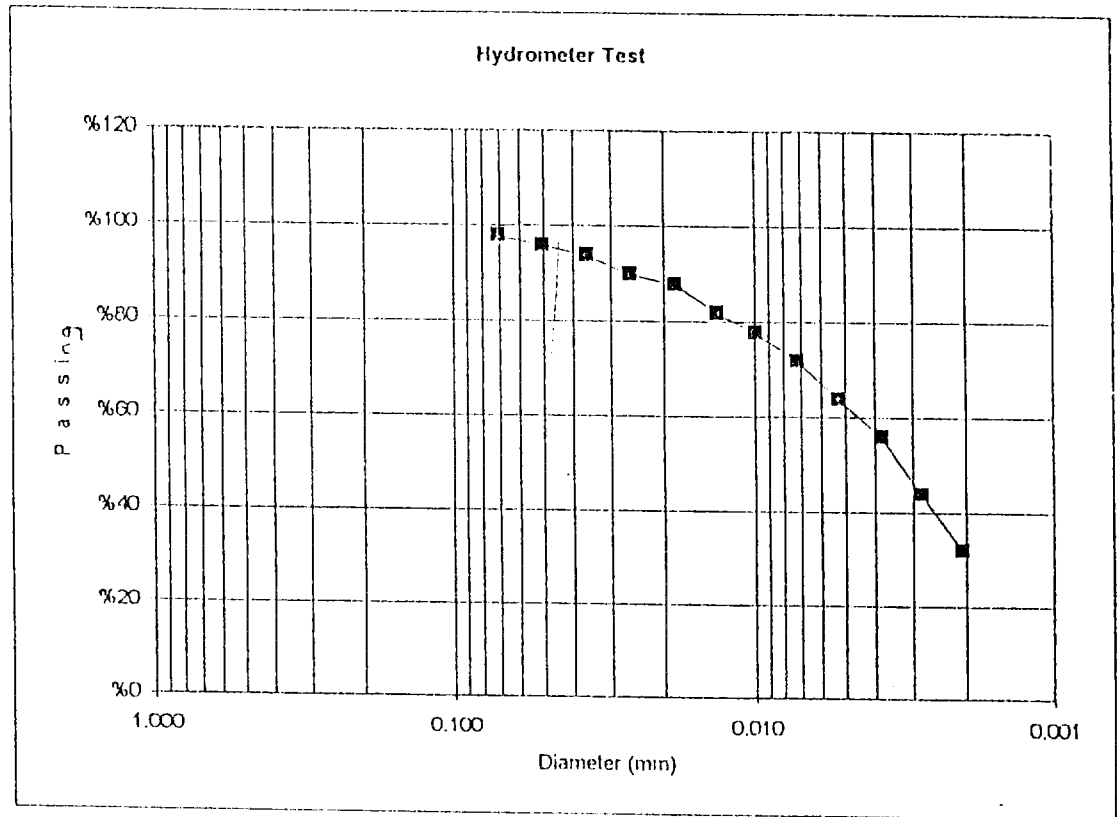
Date : 20.05.1999

γ_s (t/m³) : 2.73

Temperature (°C) : 33

Mass of Soil (gr): 50

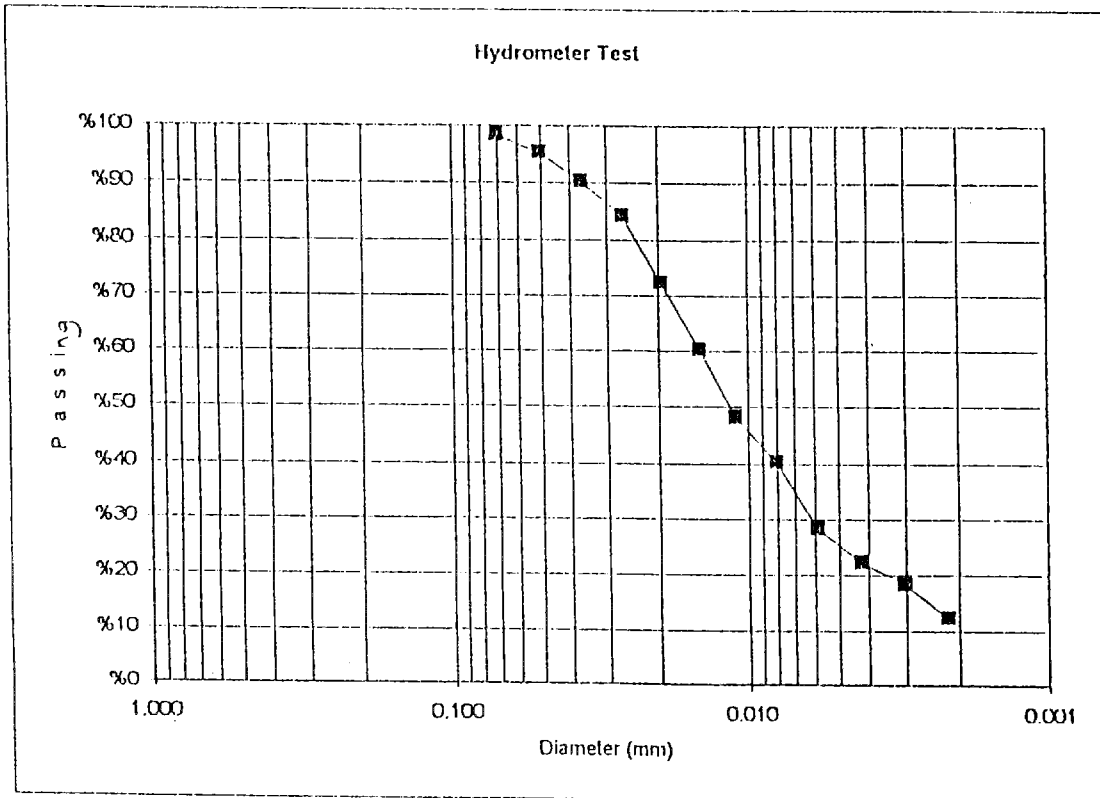
t(min)	Ra	Rc	Rm	Hc	D(mm)	Passing %
0.25	48.00	48.90	49.00	8.35	0.071	%98
0.50	47.00	47.90	48.00	8.52	0.050	%96
1	46.00	46.90	47.00	8.68	0.036	%94
2	44.00	44.90	45.00	9.00	0.026	%90
4	43.00	43.90	44.00	9.17	0.018	%88
8	40.00	40.90	41.00	9.65	0.013	%82
15	38.00	38.90	39.00	9.98	0.010	%78
30	35.00	35.90	36.00	10.47	0.007	%72
60	31.00	31.90	32.00	11.12	0.005	%64
120	27.00	27.90	28.00	11.77	0.004	%56
240	21.00	21.90	22.00	12.74	0.003	%44
480	15.00	15.90	16.00	13.72	0.002	%32



HYDROMETER TEST

Project : Bore No. P2
 Location : Mersin Depth (m) : Göçebe Evleri
 Date : 20.05.1999 γ_s (t/m³) : 2.73
 Temperature (°C) : 34 Mass of Soil (gr): 50

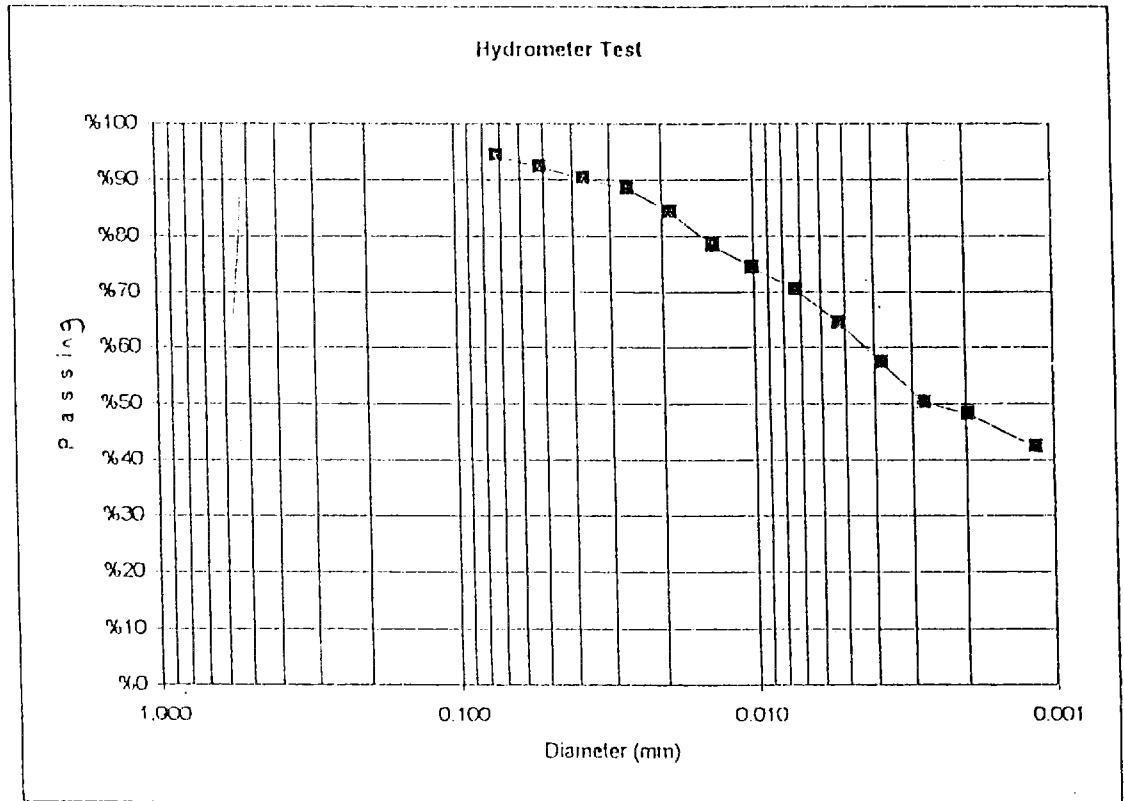
t(min)	Ra	Rc	Rm	Hc	D(mm)	Passing %
0.25	48.00	49.15	49.00	8.31	0.070	%98
0.50	46.50	47.65	47.50	8.56	0.050	%95
1	44.00	45.15	45.00	8.96	0.037	%90
2	41.00	42.15	42.00	9.45	0.027	%84
4	35.00	36.15	36.00	10.43	0.020	%72
8	29.00	30.15	30.00	11.40	0.015	%60
15	23.00	24.15	24.00	12.38	0.011	%48
30	19.00	20.15	20.00	13.03	0.008	%40
60	13.00	14.15	14.00	14.00	0.006	%28
120	10.00	11.15	11.00	14.49	0.004	%22
240	8.00	9.15	9.00	14.81	0.003	%18
480	5.00	6.15	6.00	15.30	0.002	%12



HYDROMETER TEST

Project : Bore No. P3
 Location : Mersin Depth (m) : Ocak Yolu kuzeyi
 Date : 20.05.1999 γ_s (t/m³) : 2.71
 Temperature (°C) : 30 Mass of Soil (gr): 50

(min)	Ra	Rc	Rm	Hc	D(mm)	Passing %
0.25	47.00	47.15	48.00	8.64	0.072	%94
0.50	46.00	46.15	47.00	8.80	0.051	%92
1	45.00	45.15	46.00	8.96	0.037	%90
2	44.00	44.15	45.00	9.13	0.026	%88
4	42.00	42.15	43.00	9.45	0.019	%84
8	39.00	39.15	40.00	9.94	0.014	%78
15	37.00	37.15	38.00	10.26	0.010	%74
30	35.00	35.15	36.00	10.59	0.007	%70
60	32.00	32.15	33.00	11.08	0.005	%64
120	28.50	28.65	29.50	11.64	0.004	%57
240	25.00	25.15	26.00	12.21	0.003	%50
480	24.00	24.15	25.00	12.38	0.002	%48
1440	21.00	21.15	22.00	12.86	0.001	%42



COMPACTION TEST

Location of Project :

Location : P1

Mold Volume(cm³) : 940

Number of Layers: 3

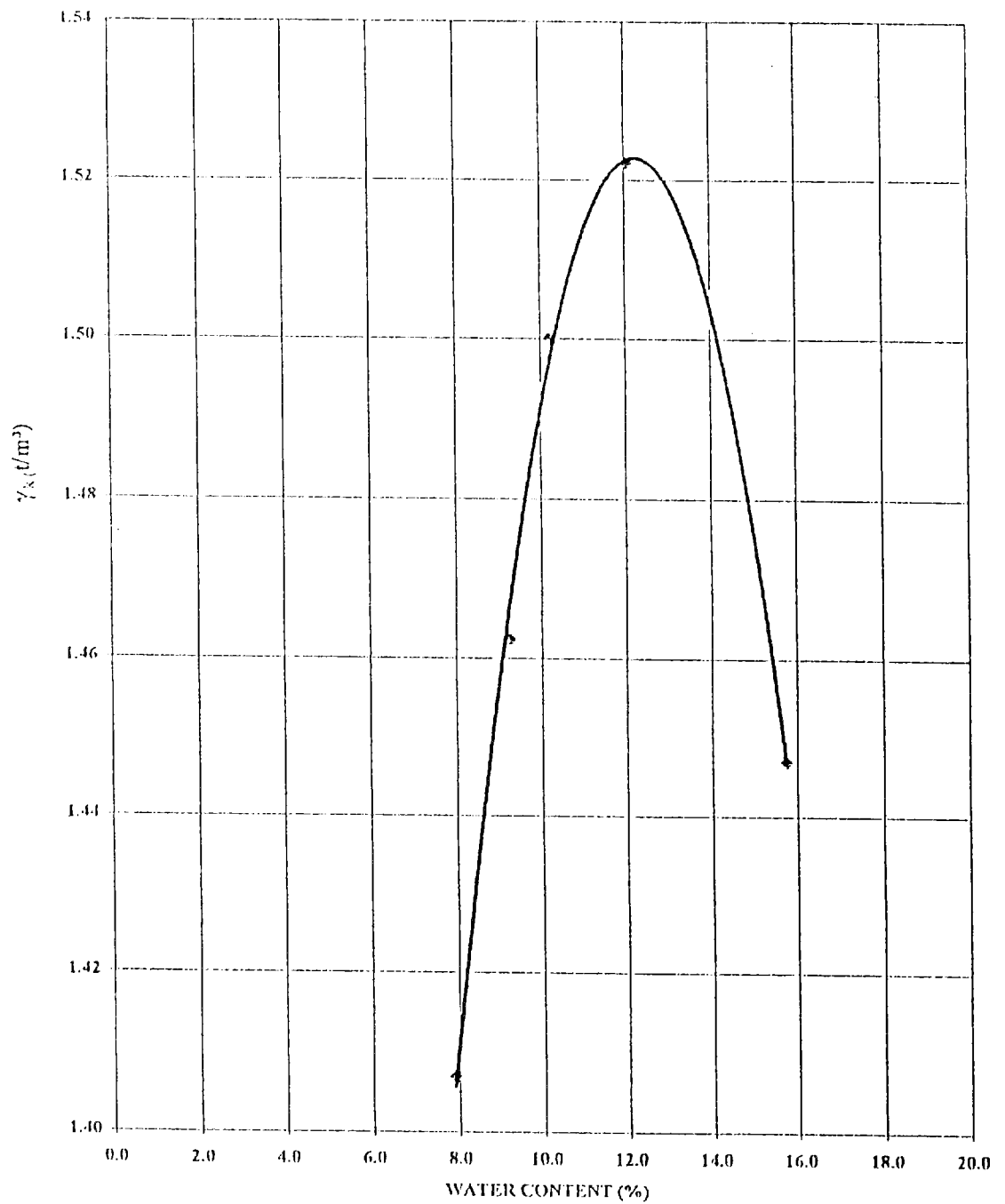
Wt. Hammer : 2.5 kg.

Ht. of Fall : 30.5 cm

No. Of Blow : 25

Sample No.	1		2		3		4	
Wet soil + Cup	3364.00		3438.39		3490.80		3540.39	
Cup	1937.00		1937.00		1937.00		1937.00	
Wet Soil	1427.00		1501.39		1553.80		1603.39	
Density (t/m ³)	1.52		1.60		1.65		1.71	
Moisture Can No:	45	4	42	1	30	41	2	9
Wet soil + Can	107.67	117.48	104.19	111.28	95.51	122.19	111.66	108.89
Dry soil + Can	101.90	112.10	98.16	105.21	89.89	113.50	103.80	100.80
Weight of water	5.77	5.38	6.03	6.07	5.62	8.69	7.86	8.09
Wt. Can	31.72	41.37	33.71	38.60	31.74	32.68	38.69	33.76
Wt. of dry soil	70.18	70.73	64.45	66.61	58.15	80.82	65.11	67.04
Water Content (%)	8.22	7.61	9.36	9.11	9.67	10.75	12.07	12.07
Average Water Content (%)	7.9		9.2		10.2		12.1	
Dry density (t/m ³)	1.41		1.46		1.50		1.52	
Sample No.	5				7		8	
Wet soil + Cup	3511.30							
Cup	1937.00							
Wet Soil	1574.30							
Density (t/m ³)	1.67							
Moisture Can No:	48	25						
Wet soil + Can	116.95	123.85						
Dry soil + Can	105.91	112.02						
Weight of water	11.04	11.83						
Wt. Can	33.40	39.30						
Wt. of dry soil	72.51	72.72						
Water Content (%)	15.23	16.27						
Average Water Content (%)	15.7							
Dry density (t/m ³)	1.45							

COMPACTION TEST



$\gamma_{kmax} = 1.52 \text{ t/m}^3$

$\omega_{opt} = \%12$

COMPACTION TEST

Location of Project :

Location : P2

Mold Volume(cm³) : 940

Number of Layers: 3

Wt. Hammer 2.5 kg.

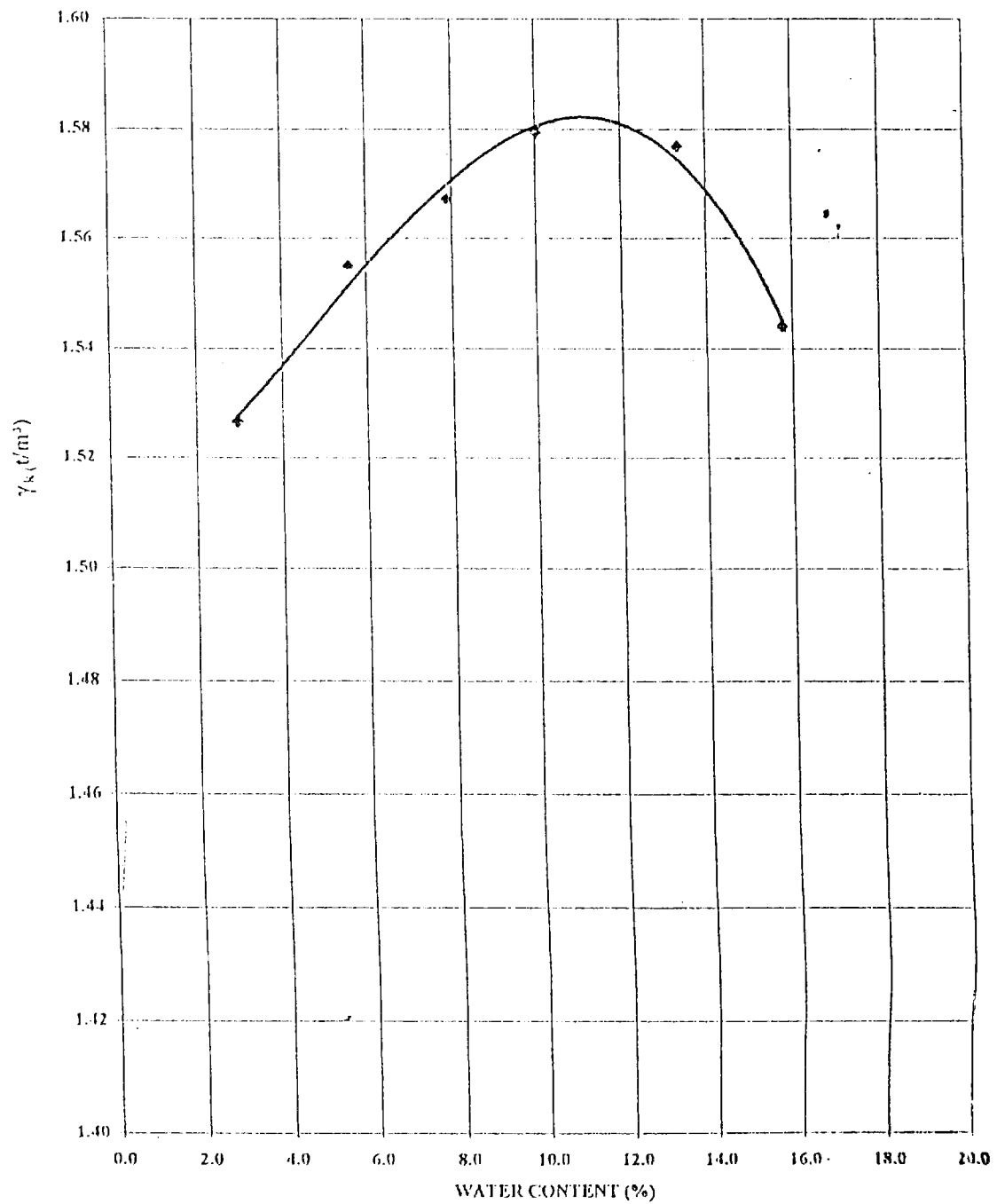
Ht. of Fall : 30.5 cm

No. Of Blow : 25

Sample No.	1		2		3		4	
Wet soil + Cup	3414.40		3479.90		3525.98		3570.46	
Cup	1937.00		1937.00		1937.00		1937.00	
Wet Soil	1477.40		1542.90		1588.98		1633.46	
Density (t/m ³)	1.57		1.64		1.69		1.74	
Moisture Can No:	44	15	48	2	17	47	80	41
Wet soil + Can	100.16	105.66	108.57	116.83	131.13	117.21	135.10	122.19
Dry soil + Can	98.30	103.53	104.81	112.48	124.34	111.14	129.38	113.50
Weight of water	1.86	2.13	3.76	4.35	6.79	6.07	5.72	8.69
Wt. Can	34.45	32.94	33.40	38.69	38.07	34.17	68.00	32.68
Wt. of dry soil	63.85	70.59	71.41	73.79	86.27	76.97	61.38	80.82
Water Content (%)	2.91	3.02	5.27	5.90	7.87	7.89	9.33	10.75
Average Water Content (%)	3.0		5.6		7.9		10.0	
Dry density (t/m ³)	1.53		1.55		1.57		1.58	

Sample No.	5				7		8	
Wet soil + Cup	3617.09		3582.40					
Cup	1937.00		1937.00					
Wet Soil	1680.09		1680.09					
Density (t/m ³)	1.79		1.79					
Moisture Can No:	25	27	34	9				
Wet soil + Can	138.13	139.00	98.73	112.00				
Dry soil + Can	126.54	127.25	89.56	101.36				
Weight of water	11.59	11.75	9.17	10.64				
Wt. Can	39.30	39.83	31.52	33.76				
Wt. of dry soil	87.24	87.42	58.04	67.60				
Water Content (%)	13.29	13.44	15.80	15.74				
Average Water Content (%)	13.4		15.8					
Dry density (t/m ³)	1.58		1.54					

COMPACTION TEST



$\gamma_{kmax} = 1.58 \text{ t/m}^3$

$\omega_{opt} = \%11$

COMPACTION TEST

Location of Project :

Location : P3

Mold Volume(cm^3) : 940

Number of Layers: 3

Wt. Hammer 2.5 kg.

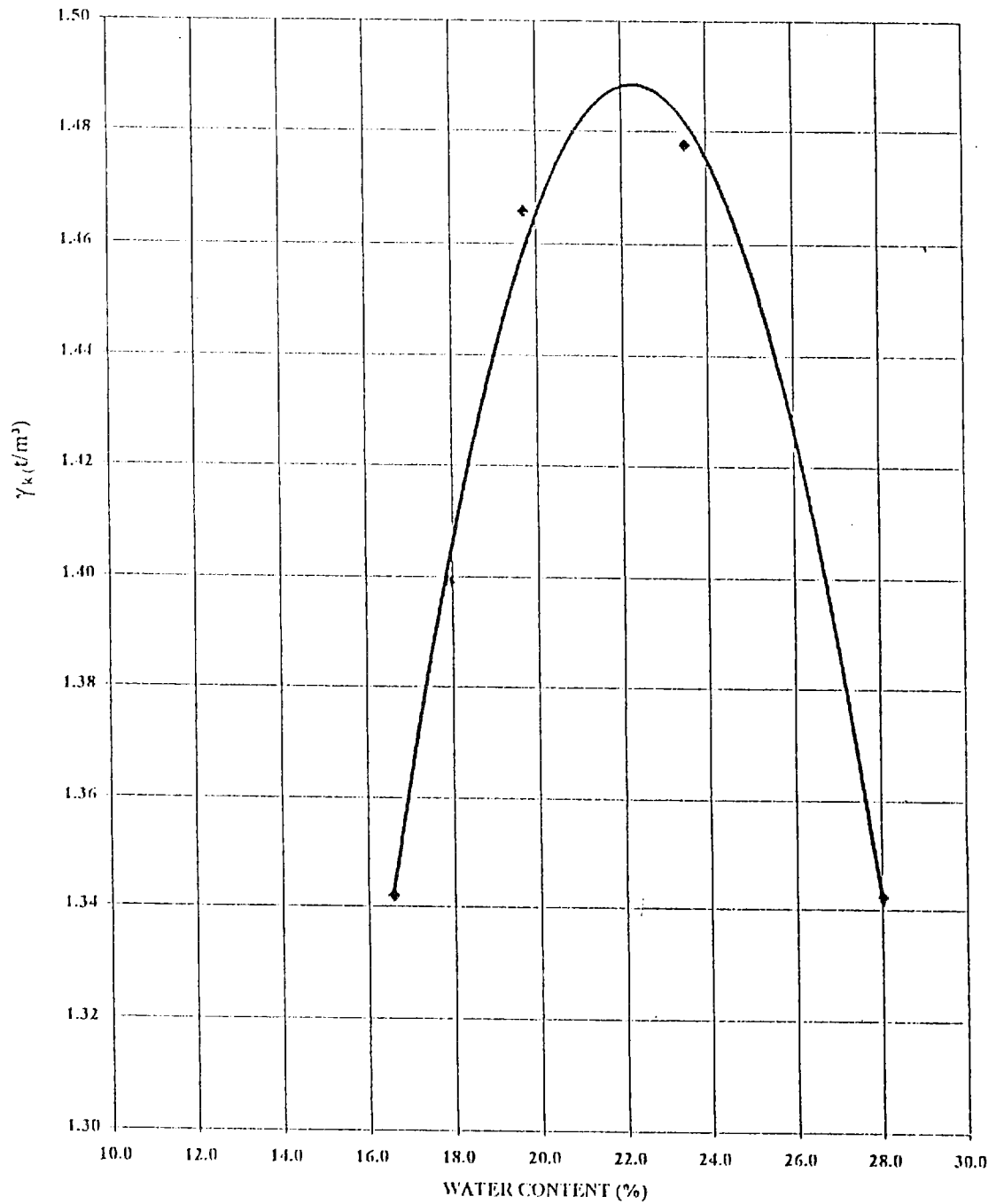
Ht. of Fall : 30.5 cm

No. Of Blow : 25

Sample No	1		2		3		4	
Wet soil + Cup	3407.40		3487.40		3586.20		3652.20	
Cup	1937.00		1937.00		1937.00		1937.00	
Wet Soil	1470.40		1550.40		1649.20		1715.20	
Density (t/m^3)	1.56		1.65		1.75		1.82	
Moisture Can No:	25	47	41	32	19	31	27	15
Wet soil + Can	117.00	100.50	119.91	92.50	120.05	100.30	128.20	102.00
Dry soil + Can	105.80	91.20	106.91	82.90	107.90	88.00	111.20	89.00
Weight of water	11.20	9.30	13.00	9.60	12.15	12.30	17.00	13.00
Wt. Can	39.30	34.17	32.68	30.48	38.98	31.56	39.83	32.94
Wt. of dry soil	66.50	57.03	74.23	52.42	68.92	56.44	71.37	56.06
Water Content (%)	16.84	16.31	17.51	18.31	17.63	21.79	23.82	23.19
Average Water Content (%)	16.6		17.9		19.7		23.5	
Dry density (t/m^3)	1.34		1.40		1.47		1.48	

Sample No	5				7		8	
Wet soil + Cup	3552.10							
Cup	1937.00							
Wet Soil	1615.10							
Density (t/m^3)	1.72							
Moisture Can No:	44	38						
Wet soil + Can	120.26	105.80						
Dry soil + Can	99.80	91.70						
Weight of water	20.46	14.10						
Wt. Can	34.45	34.74						
Wt. of dry soil	65.35	56.96						
Water Content (%)	31.31	24.75						
Average Water Content (%)	28.0							
Dry density (t/m^3)	1.34							

COMPACTION TEST



$\gamma_{kmax} = 1.49 \text{ t/m}^3$

$\omega_{opt} = \%22$

ATTERBERG LIMITS

Project :

Sample No. : P1

Location :

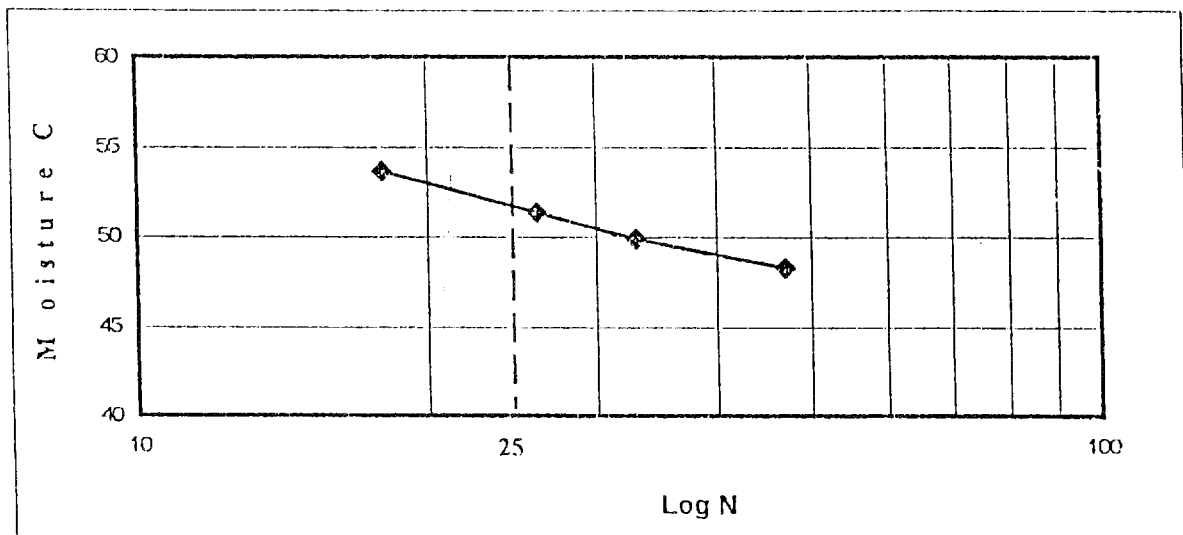
Mersin

LIQUID LIMIT

Can No	27	34	4	8
No. of Drops (N)	47	33	26	18
Can + Wet Soil (gr)	60.63	49.25	63.07	67.80
Can + Dry Soil (gr)	53.86	43.35	55.71	58.57
Mass of Can (gr)	39.83	31.52	41.37	41.36
Water Content (%)	48	50	51	54

PLASTIC LIMIT

Can No	48	41
Can + Wet Soil (gr)	50.64	48.13
Can + Dry Soil (gr)	46.95	44.89
Mass of Can (gr)	33.40	32.68
Water Content (%)	27	27



$w_L(\%)$	$w_P(\%)$	$I_P(\%)$
52.0	27	25

 w_L = Liquid Limit w_P = Plastic Limit I_P = Plasticity Index

ATTERBERG LIMITS

Project :

Sample No. : P2

Location :

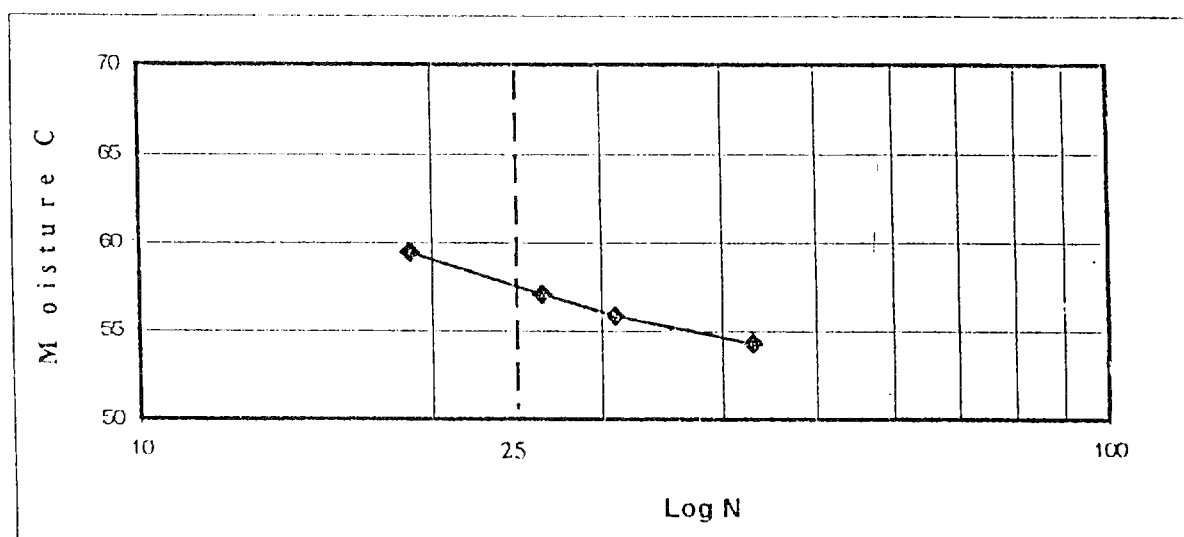
Meisin

LIQUID LIMIT

Can No	5	39	28	29
No. of Drops (N)	43	31	26	19
Can + Wet Soil (gr)	52.88	44.67	47.22	49.47
Can + Dry Soil (gr)	48.02	39.88	41.95	42.79
Mass of Can (gr)	39.07	31.30	32.71	31.55
Water Content (%)	54	56	57	59

PLASTIC LIMIT

Can No	36	35
Can + Wet Soil (gr)	42.47	44.62
Can + Dry Soil (gr)	40.80	42.65
Mass of Can (gr)	32.26	32.87
Water Content (%)	20	20



$w_L(\%)$	$w_P(\%)$	$I_P(\%)$
58.0	20	38

 w_L = Liquid Limit w_P = Plastic Limit I_P = Plasticity Index

eng-KVM-P2.XLS

ATTERBERG LIMITS

Project :

Sample No. : P3

Location :

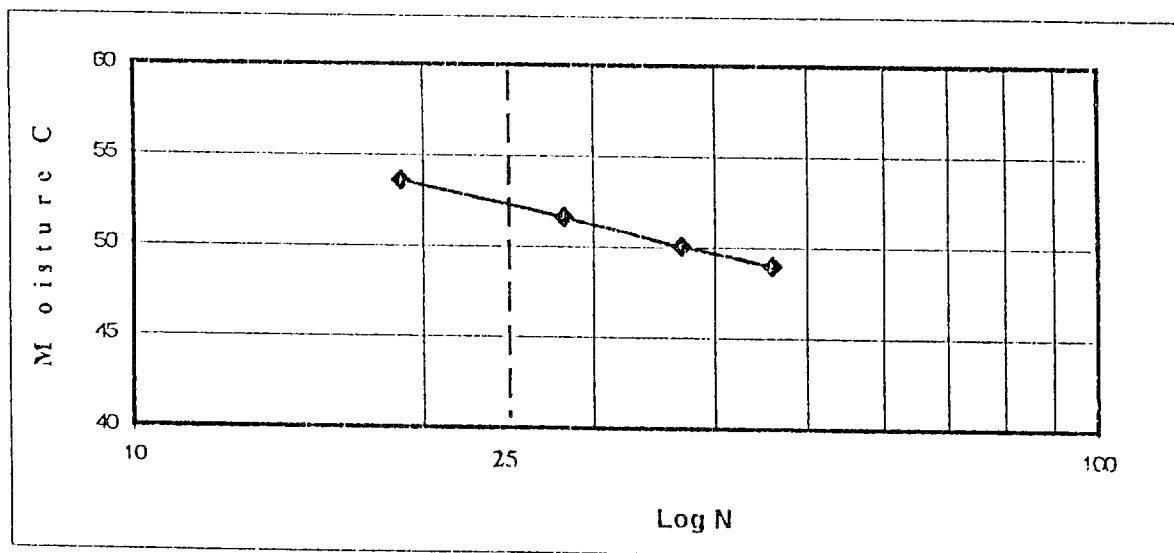
Mersin

LIQUID LIMIT

Can No	42	1	45	30
No. of Drops (N)	46	37	28	19
Can + Wet Soil (gr)	55.02	61.68	52.98	52.30
Can + Dry Soil (gr)	48.02	53.99	45.75	45.13
Mass of Can (gr)	33.71	38.60	31.72	31.74
Water Content (%)	49	50	52	54

PLASTIC LIMIT

Can No	2	25
Can + Wet Soil (gr)	53.32	53.66
Can + Dry Soil (gr)	50.20	50.56
Mass of Can (gr)	38.69	39.30
Water Content (%)	27	28



$w_L(\%)$	$w_P(\%)$	$I_P(\%)$
53.0	27	26

 w_L = Liquid Limit w_P = Plastic Limit I_P = Plasticity Index

BORING METHOD: ROTARY										LOCATION: Mersin-Çimsa		BOREHOLE NO: B1	
BORING DIAMETER: 76 mm												Sheet... of 1...	
CASING DIAMETER: 114 mm										ORIENTATION: VERTICAL		GROUND LEVEL:	
BORING EQUIPMENT: GMS-300												DATE: 29/04/1999	
SAMPLES AND IN SITU TESTS		SPT blows in cm			Casing Depth	Water Depth	TCR	RC	Date and depth	DESCRIPTION OF STRATA	Ord. Datum Level	LEGEND	
DEPTH: m	TYPE	15	15	15	m.	m.	%. %	%. %	m.		O.D. m		
1.50	D1	12	17	19						Limestone gravel with clay			
3.00	D2								3.00				
4.50	D3						20		4.50	Sand stone-Conglomerate			
6.00	D4						45						
7.50	D5					7.45			7.50				
9.00	D6						35		7.95	Silty clay			
10.50	D7						10						
12.00	D8						10		12.00				
13.50	D9						15		13.50				
15.00							15		15.00	Limestone			
										End of the boring			
D: DISTURBED SAMPLE BD: BULK DISTURBED SAMPLE U: UNDISTURBED SAMPLE P: PRESSUMETER TEST W: WATER SAMPLE D: PISTON (P) OR CORE V: VANE TEST SAMPLE LENGTH K: PERMEABILITY TEST TO SCALE										BOREHOLE LOG-B1			
CARRIED OUT FOR:										LOGGED BY: A. Bilgen OPERATOR: H. Kolutkisa			
										Figure No: 1			

BORING METHOD: Rotary										Sheet... of 1...		
BORING DIAMETER: 74 mm										ORIENTATION: Vertical		
CASING DIAMETER: 114 mm										GROUND LEVEL:		
BORING EQUIPMENT: G S M-300										DATE COMMENCED: 28.04.1999		
SAMPLES AND IN SITU TESTS		SPT blows in cm			Casing Depth	Water Depth	ICR	GR	Date and depth	DESCRIPTION OF STRATA	Ord. Datum Level	Q.P.
DEPTH in	TYPE	15	15	15	m.	m.	1/2	1/2	m.			
1.50	D1	3	5	7	2.15					Red limestone gravel with clay		
3.00	D2	50/2	-	-								
4.50	D3	18	20	32					4.50			
6.00	D4	15	18	20					$K = 6.22 \times 10^{-7}$ 6.00			
7.50	D5	16	18	21								
9.00	D6	17	20	23					9.00			
10.50	D7	18	21	24					$K = 1.60 \times 10^{-7}$ 10.50	Silty clay		
12.00	U1	45	50/5	-								
13.50	D8	47	50/5	-	13.80							
15.00	D9	50/3	-	-					15.00			
16.00	D10						25		16.00	Lime stone		
										End of the boring		

D: DISTURBED SAMPLE DD: BULK DISTURBED SAMPLE

U: UNDISTURBED SAMPLE P: PRESSUMETER TEST

W: WATER SAMPLE Q: PISTON (P) OR CORE

V: VANE TEST SAMPLE LENGTH TO SCALE

K: PERMEABILITY TEST

BOREHOLE L06-B2

Figure No: 2

CARRIED OUT FOR:	LOGGED BY: A. Bilgen
	OPERATOR: H. Koluksu

BORING METHOD: ROTARY										LOCATION : MERSİN-ÇİMSA		BOREHOLE NO: B ₃	
BORING DIAMETER: 76 mm												Sheet... of 1...	
CASING DIAMETER: 114 mm										ORIENTATION: VERTICAL		GROUND LEVEL:	
BORING EQUIPMENT: GMS 300												DATE COMMENCED: 30.04.1999 01.05.1999	
SAMPLES AND IN SITU TESTS		SPT blows in cm			Casing Depth m.	Water Depth m.	FCR %	TC %	Date and depth m.	DESCRIPTION OF STRATA	Ord. Datum Level Q.D.	LEGEND	
DEPTH m.	TYPE	15	15	15									
1.50	D1	36	50/5	-					2.00	Sindy, sandy, clay			
3.00	D2	17	36	40					3.50				
4.50	D3	16	19	37									
6.00	D4	37	50/13	-									
7.50	D5	39	50/10	-					7.50 K=7.13x10 ⁻⁷ 7.75	Sildy clay			
9.00	D6	45	5	-					9.00 K=9.1x10 ⁻⁷ 9.20				
10.50	D7	29	36	50/5									
12.00	D8	45	50/5	-					12.80				
13.50	D9						20			Lime Stone			
15.00	D10						25						
										End of the boring			
D: DISTURBED SAMPLE BD: BULK DISTURBED SAMPLE U: UNDISTURBED SAMPLE P: PRESSUMETER TEST W: WATER SAMPLE Q: PISTON (P) OR CORE V: VANE TEST SAMPLE LENGTH K: PERMEABILITY TEST TO SCALE										BOREHOLE LOG-B ₃			
CARRIED OUT FOR:										LOGGED BY: A. Bilgen			
										OPERATOR: H. Kolokisa			

Measurement : JF-1

Coordinates(0
Surface level: .00 m+Ref.level: 0

Geo-electrical model Bottom Layer Resistivity

75 - m - 0440

Q. 10

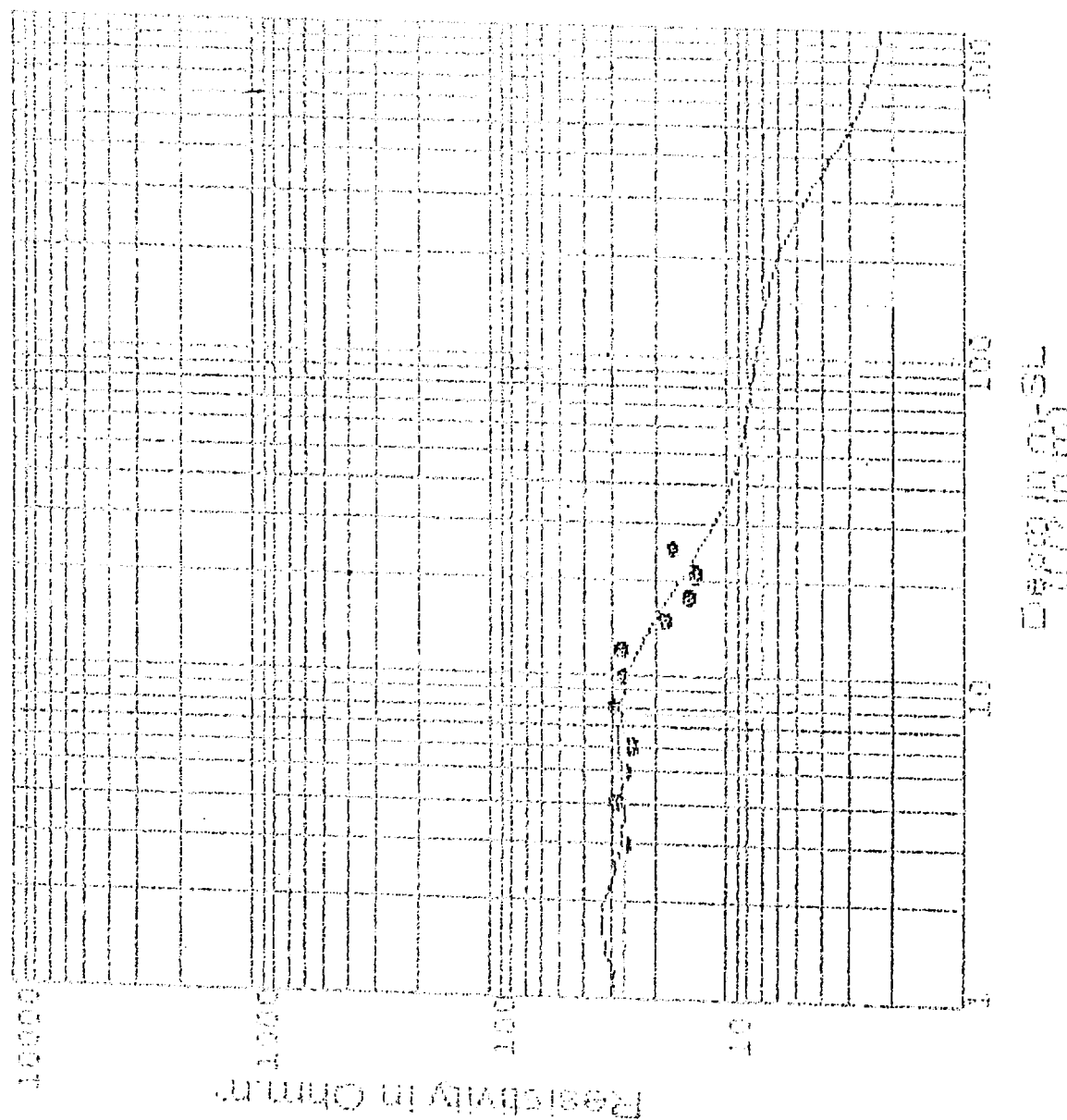
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2. Definition

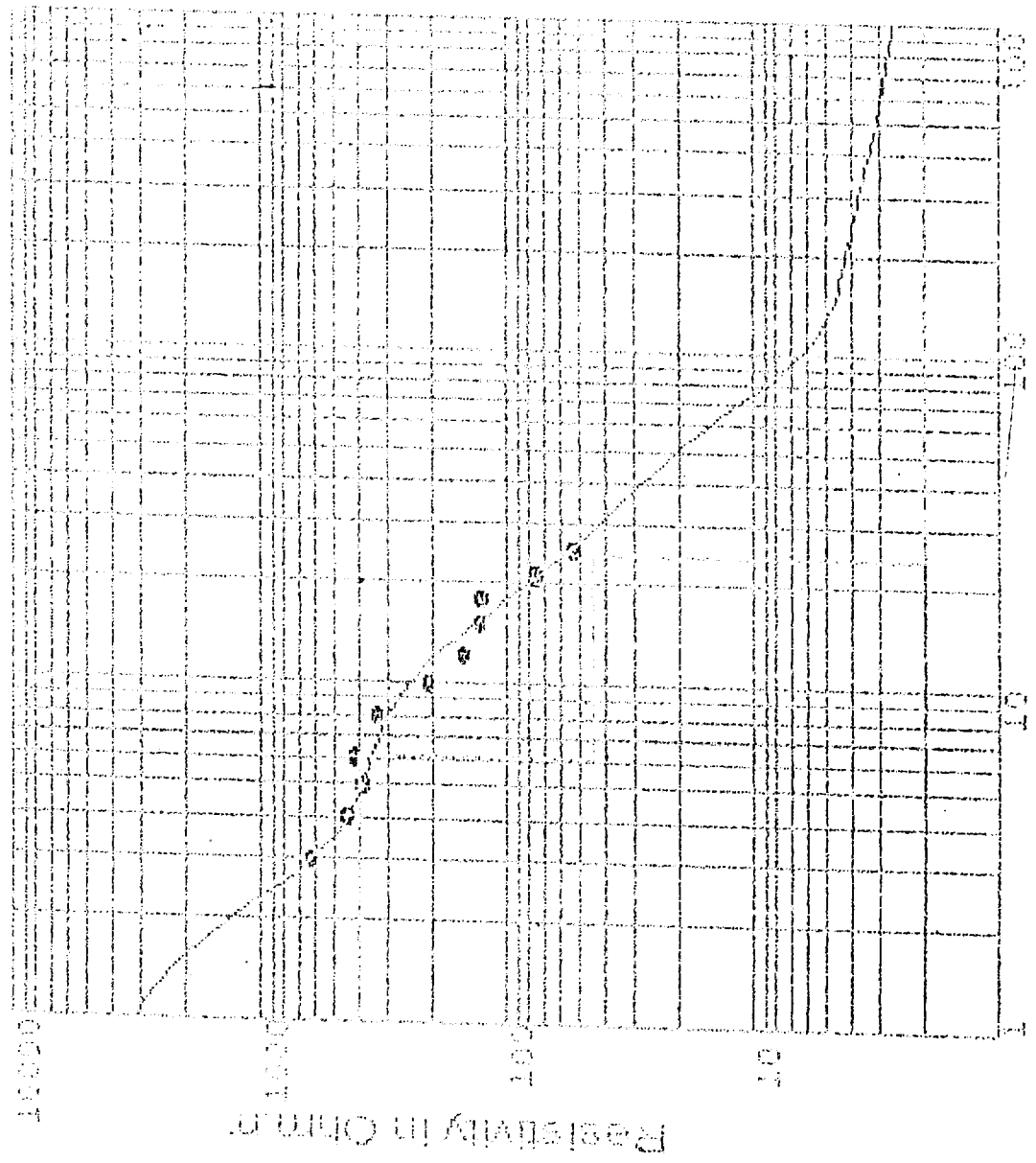
2005-06-01

DATE: 5-5-68



GEO-ELECTRIC LOG: JF1
Figure No : 4

Measurement : JF-2



D6-118

Coordinates (0) θ
 Surface level: .00 m ~~Ref~~ level

Geo-electrical model
 Bottom Layer Resistivity
 m - SL Ohm.m
 .70 4432
 6.18 393
 24.47 45

End resistivity: 2

SSD on log-scale D3546

Date (y-m-d): 1999-5 -3

Measurement : JF-3

Coordinates (0	.00
Surface level	m+Ref.lev

Geo-electrical model Bottom Layer

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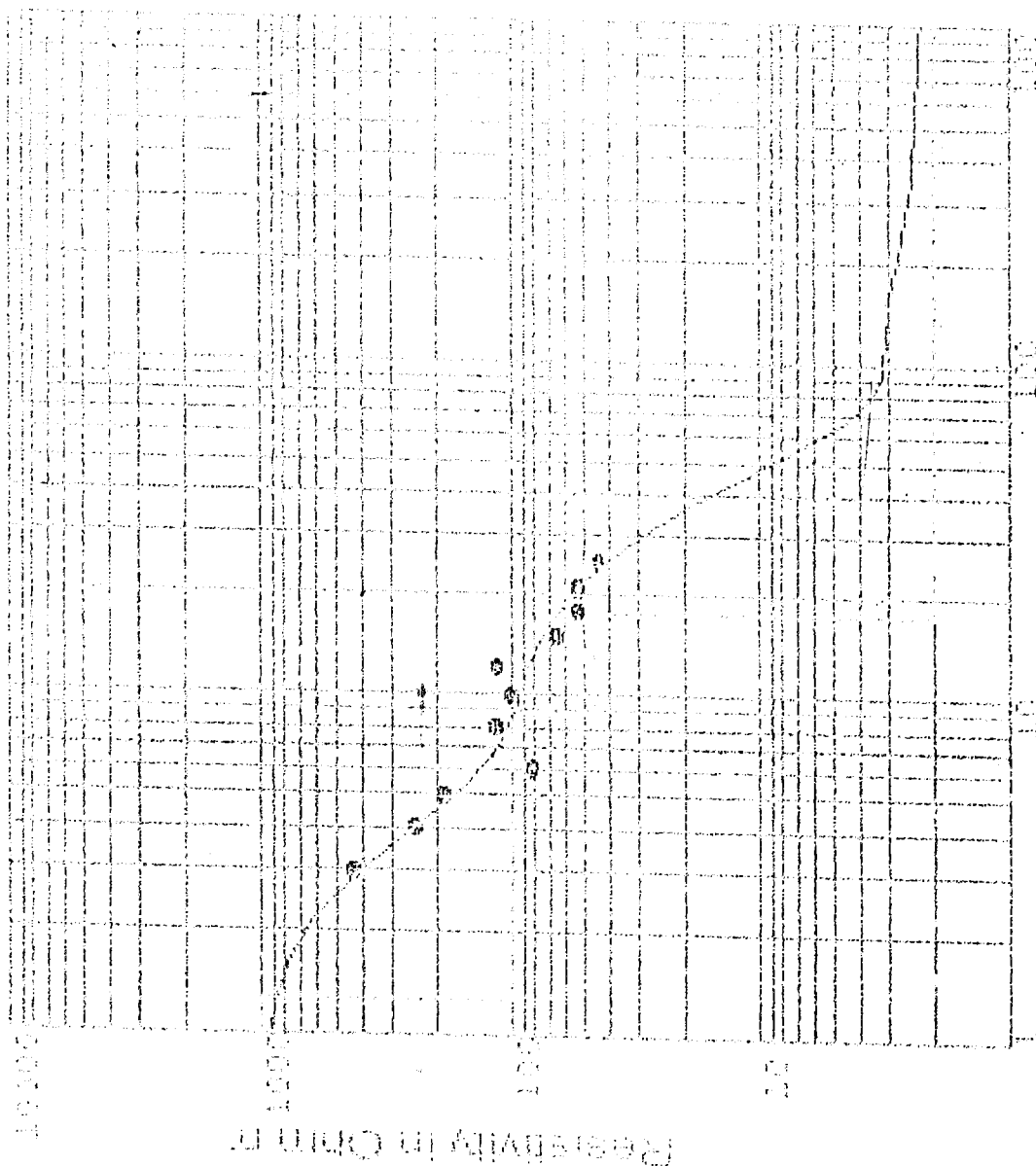
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002
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Activity 2

[illegible]

13-15557:1980-01-05



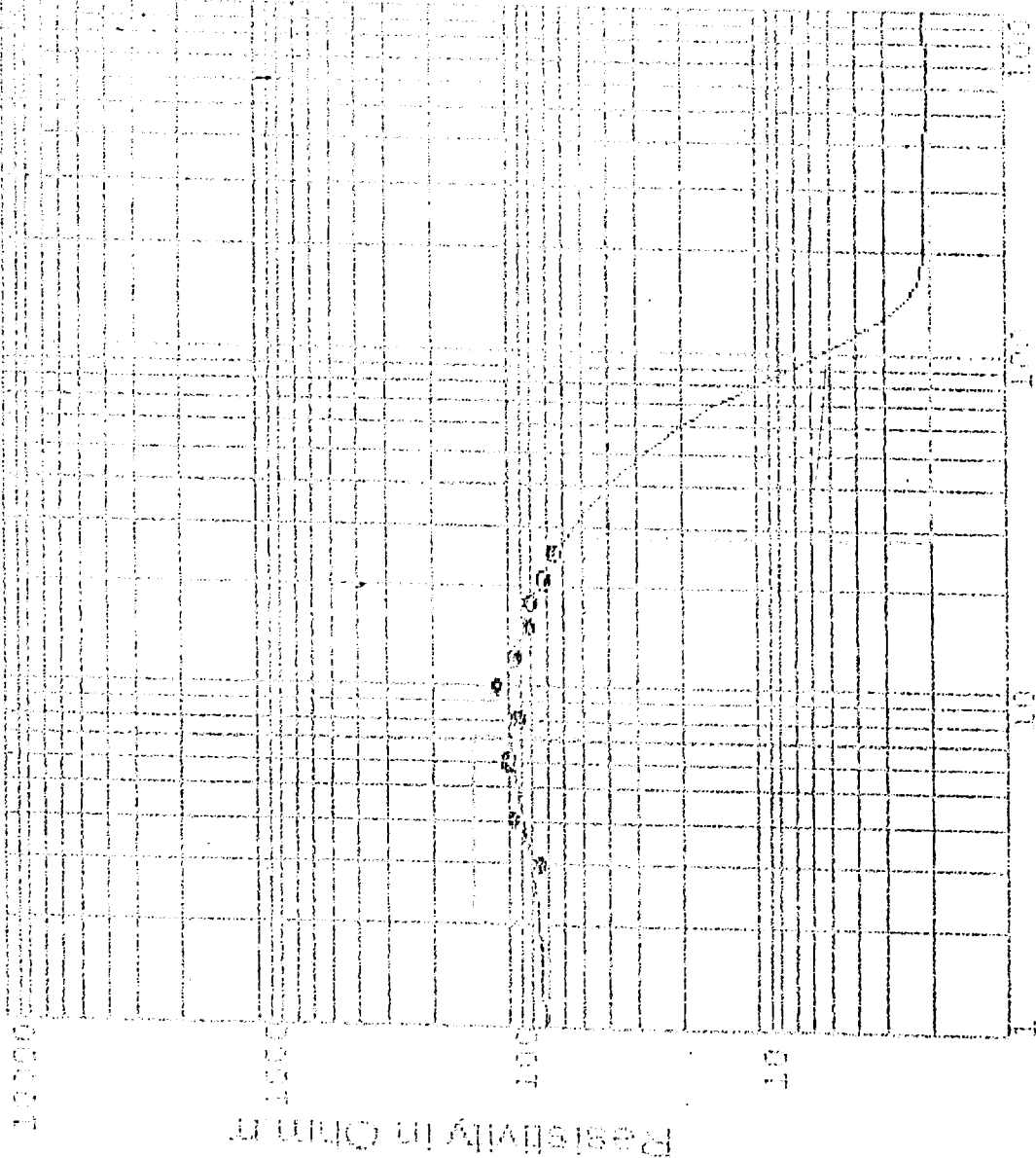
1000

GEO-ELECTRIC LOG; J.F 3

Figure No : 6

```
Coordinates(0 0
Surface level: .00 m+Ref.level
```

m - SL	Ohm.m
2.04	72
7.18	139
28.38	49

[illegible]

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```

Geo-electrical model
Bottom Layer      Resistivity
m - SL           Ohm.m
      3.75        26
      125.72     11
      125.82     6
End resistivity : 2

```

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Date (y-m-d): 1999-5-13

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GEO-ELECTRIC LOG : JF5
Figure No : 8

Measurement : JF6

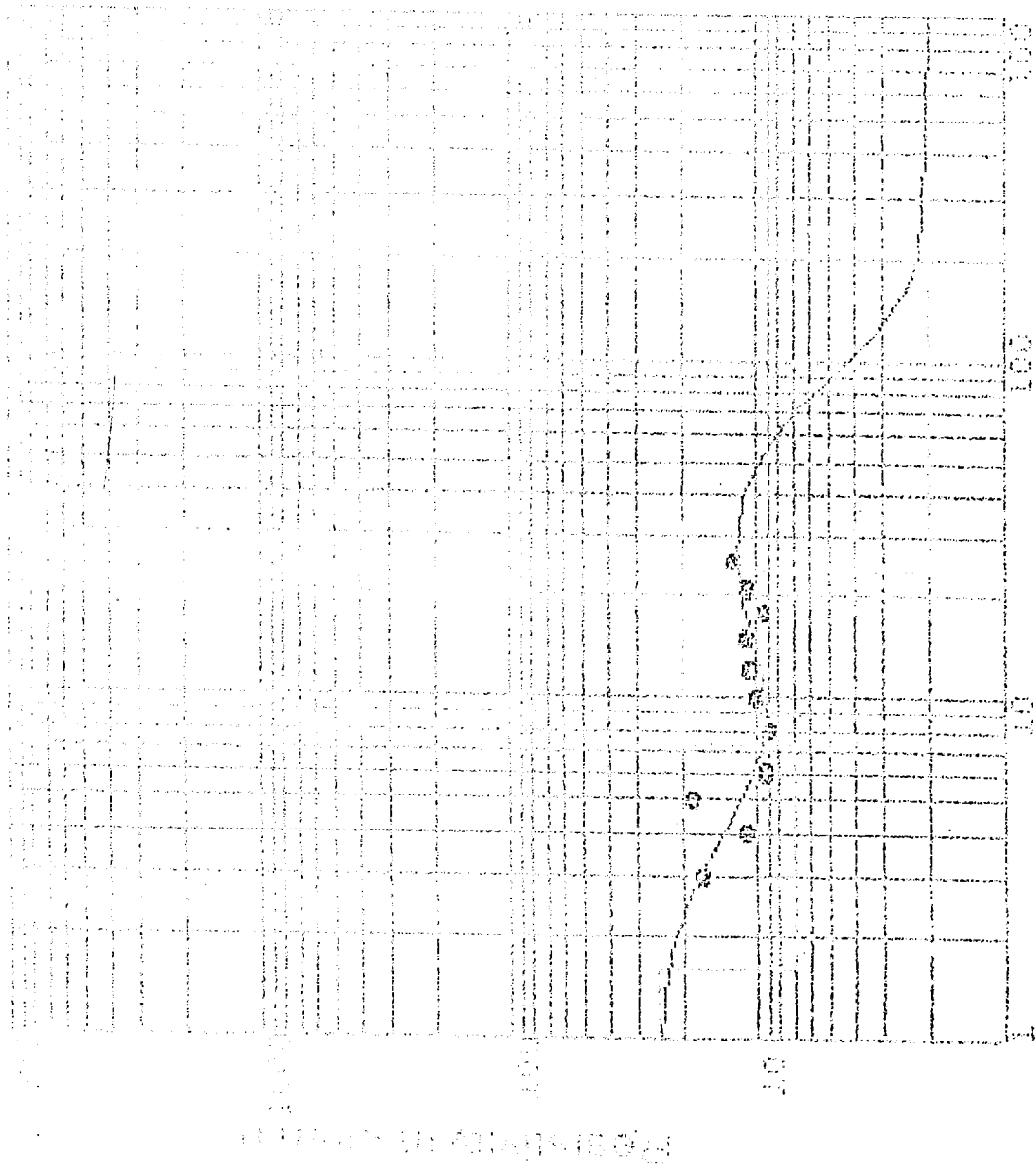
Coordinates (0 0
 Surface level: .00 m+Ref. level

Geo-electrical model
 Bottom Layer Resistivity
 m - SL Ohm.m
 1.60 25
 7.31 7
 23.91 20

End resistivity : 2

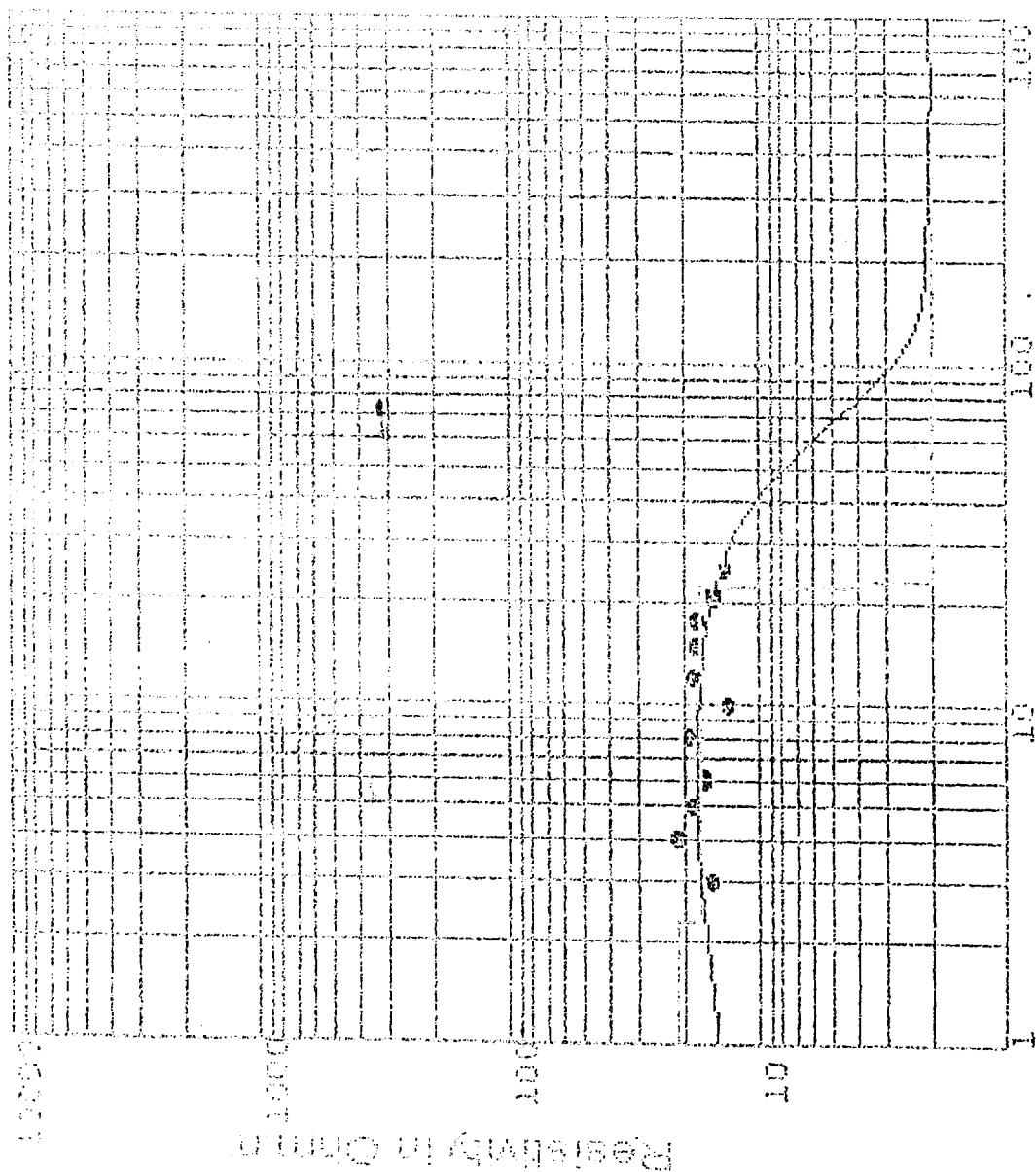
SSD on log-scale 06137

Date (y-m-d) : 1999-5 -3



Depth in m-SL
 100
 10
 1

Measurement : JF-7



Coordinates (0 0
Surface level: .00 m+Ref. level

Geo-electrical model
Bottom Layer Resistivity
m - SL Ohm.m

.93	14
2.29	21
22.24	17
23.35	4

End resistivity : 2

SSD on log-scale 02879

Date (y-m-d) : 1999-5 -3

Depth in m-SL
(029 in m)

GEO-ELECTRIC LOG : JF-7

Figure No : 40

Measurement : JF-8

Coordinates (0 0
Surface level: -00 m+Ref. level

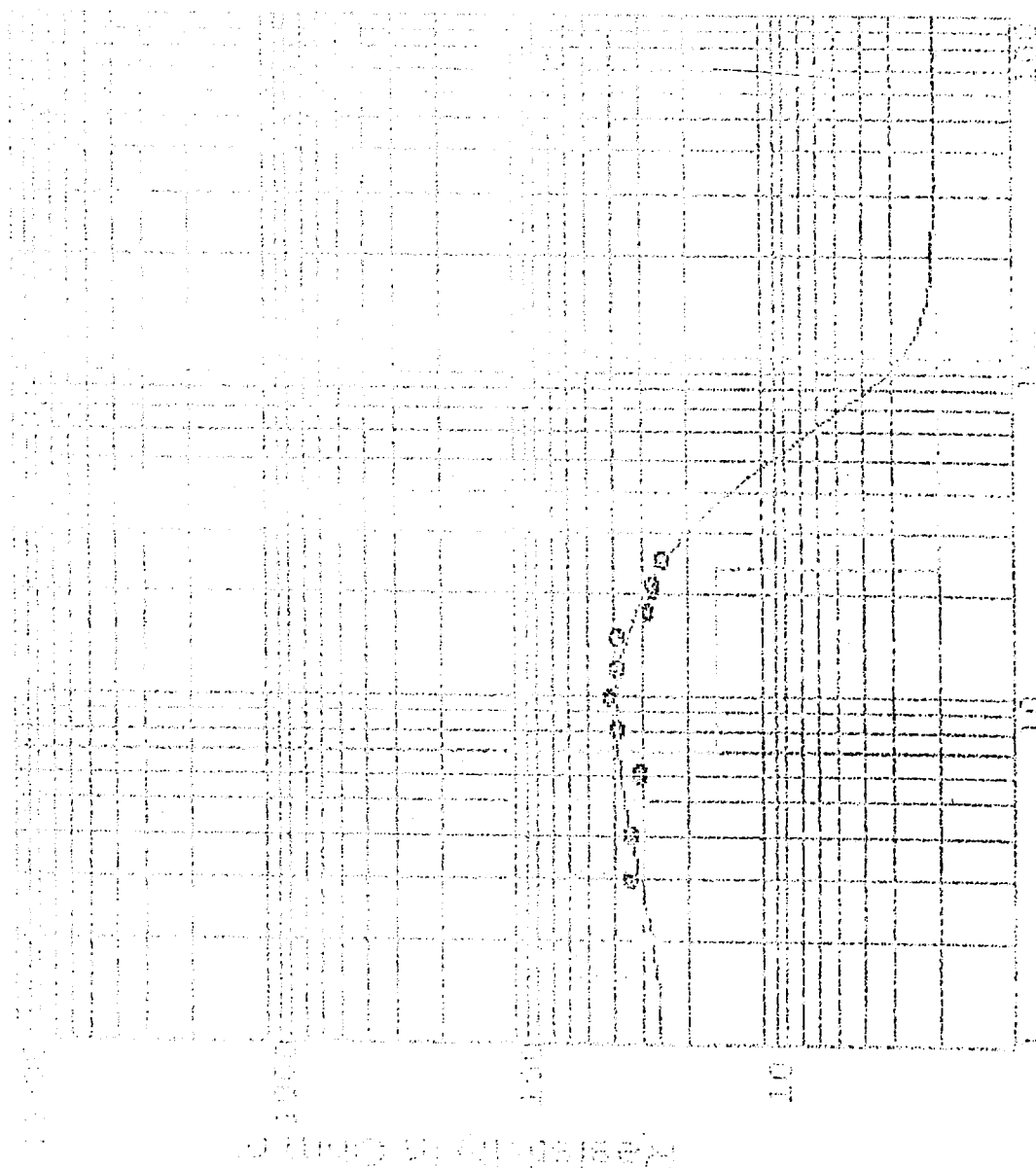
Geo-electrical model
Bottom Layer Resistivity
m - SL Ohm.m

1.56	25
3.15	57
5.00	30
7.00	105
23.76	15

End resistivity: 2

SSD on log-scale 01225

Date (y-m-d) : 1999-5 -3



Depth in m-SL

GEO-ELECTRIC LOG : JF-8

Figure No : 11

Measurement : JF9

Coordinates (0 0
Surface level: .00 m+Ref.lev

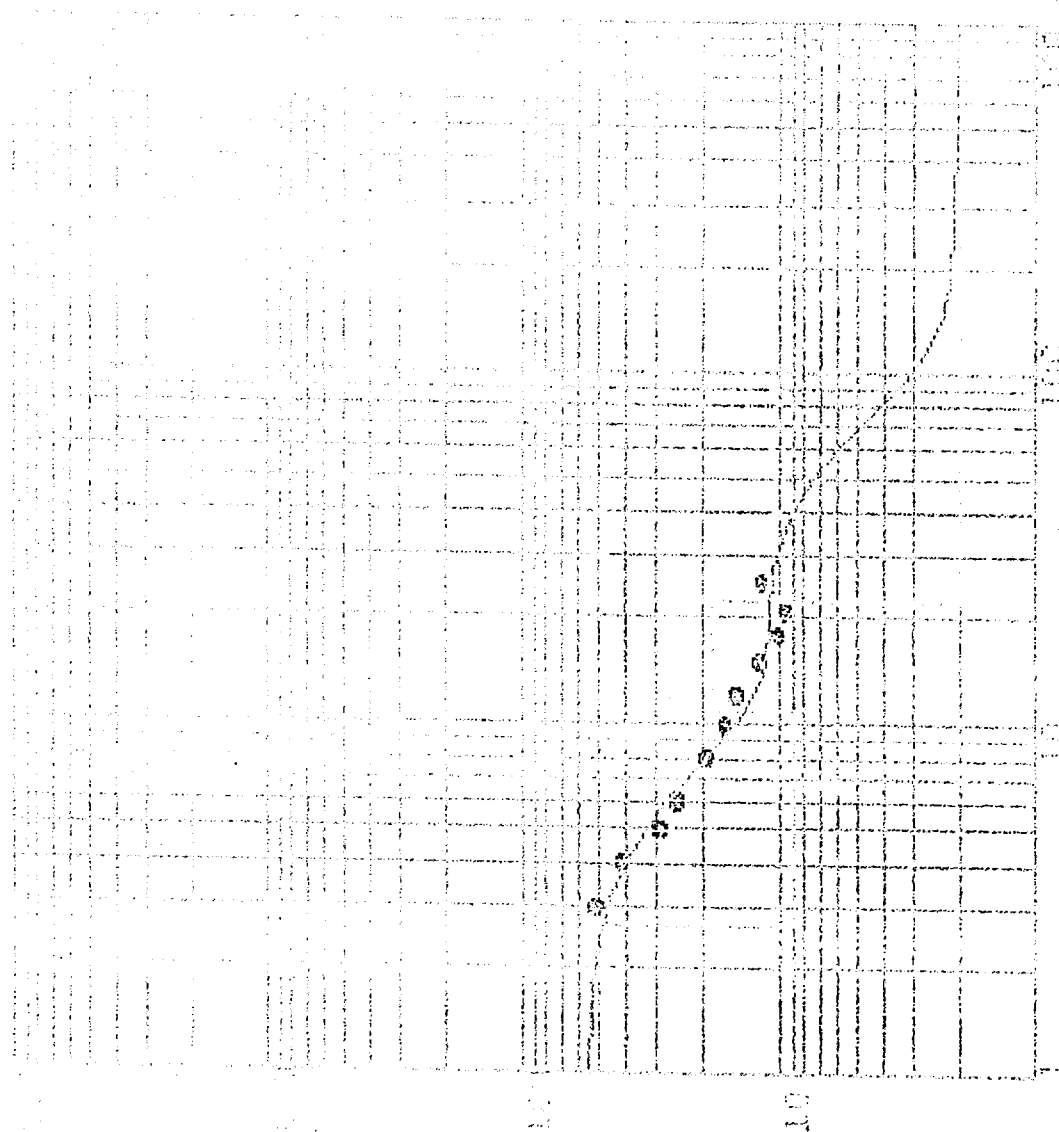
Geo-electrical model
Bottom Layer Resistivity
m - SL Ohm.m

2.65 55
10.88 9
22.28 18

End resistivity : 2

SSD on log-scale 01841

Date (y-m-d) : 1999-5 -3



Depth in m

GEO-ELECTRIC LOG : 9

Figure No : 12

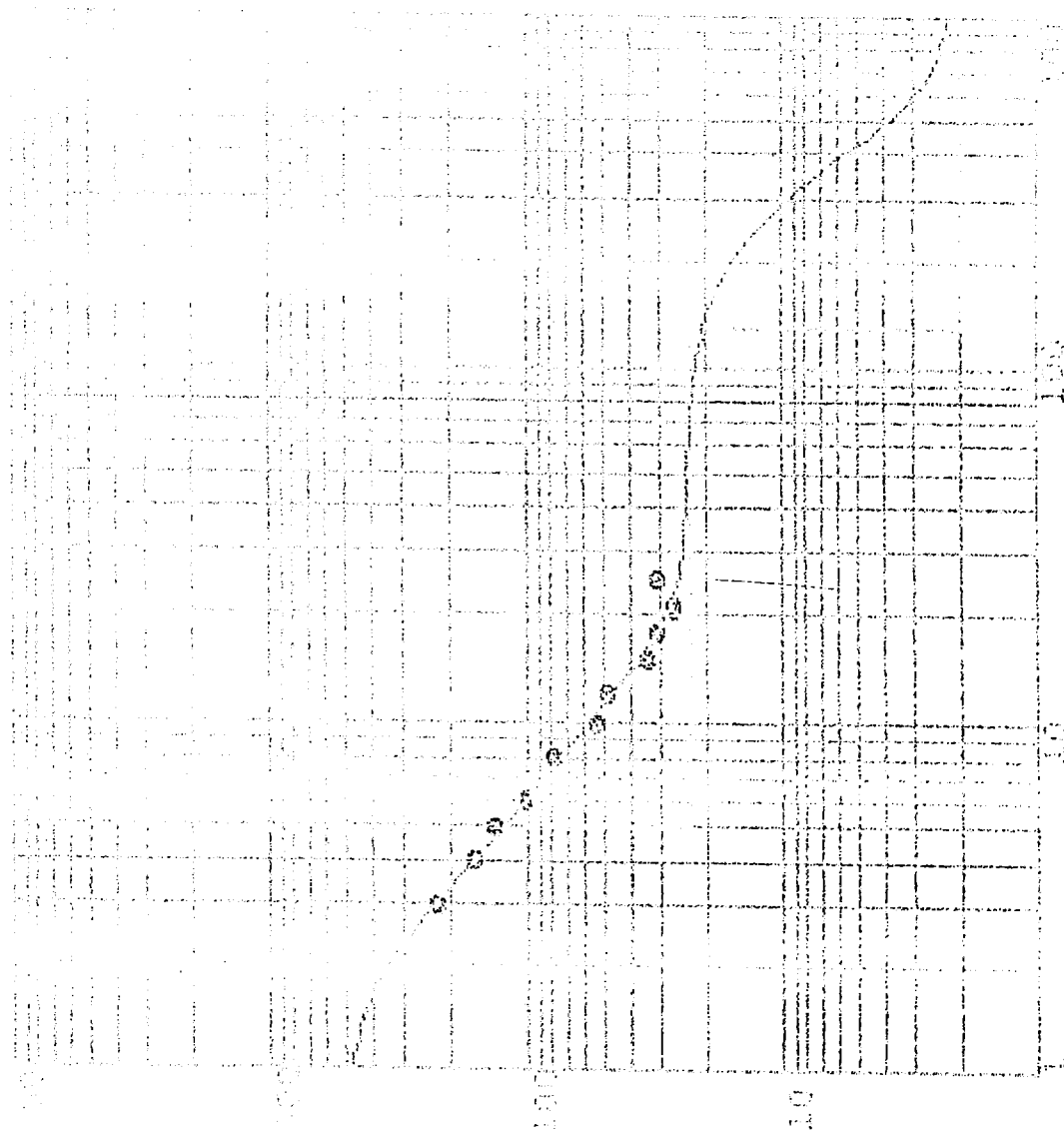
Measurement : JF10

Coordinates: 0
 Surface level: .00 m+Ref. level

Geo-electrical model
 Bottom Layer Resistivity
 m - SL Ohm.m
 1.17 511
 5.01 103
 129.57 23
 End resistivity: 2

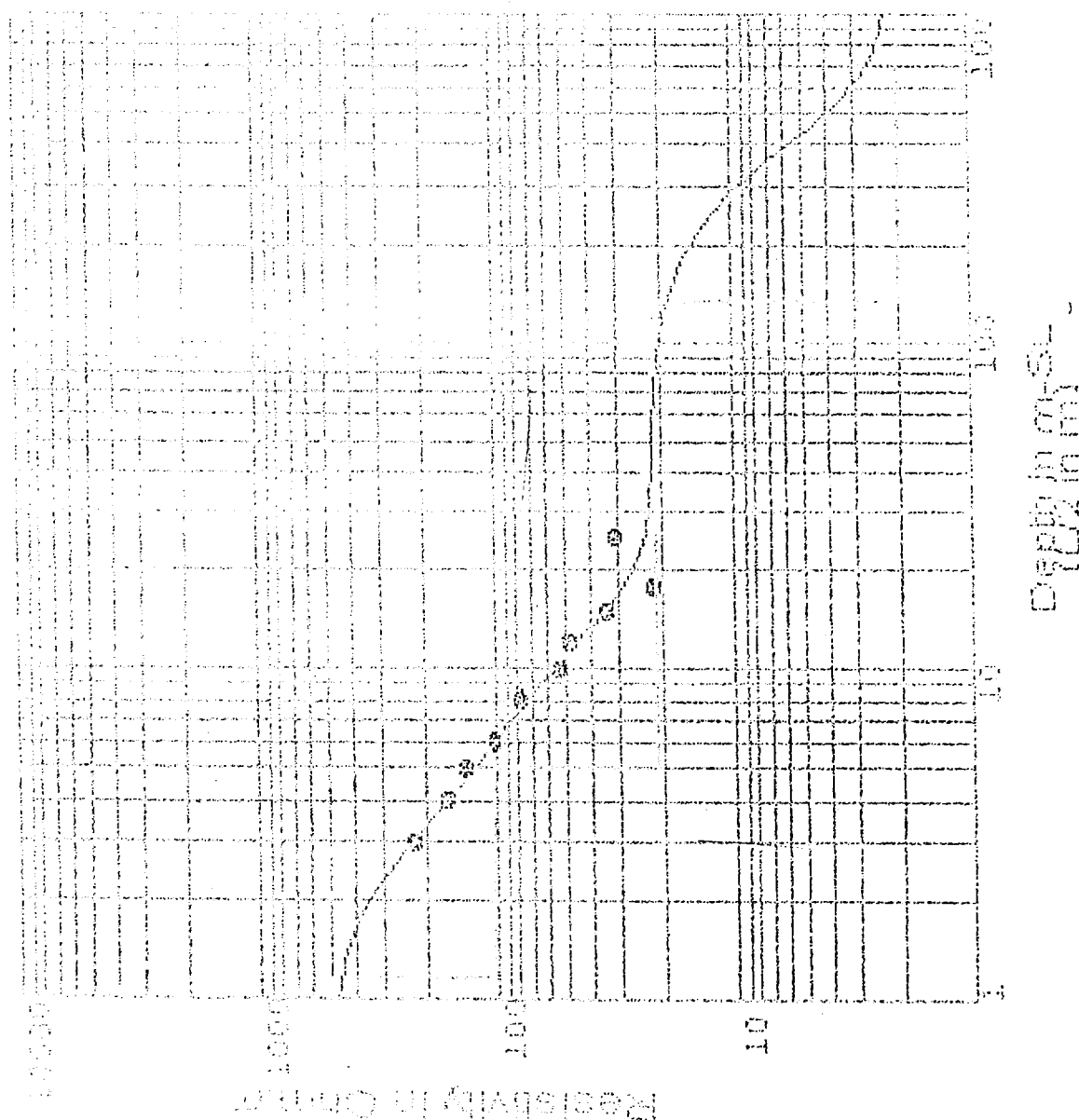
SSD on log-scale 01302

Date (y-m-d) : 1999-5 -3



Depth in m-SL

Measurement : JF-11



Coordinates: 0
Surface level: .00 m+Ref.level

Geo-electrical model
Bottom Layer Resistivity
m - SL Ohm.m
1.17 509
5.01 104
134.69 21
End resistivity: 2

SSD on log-scale 03442

Date (y-m-d) : 1999-5 -3

GEO-ELECTRIC LOG : JF-11
Figure No : 14

Measurement : JF12

Coordinates: 0
Surface level: .00 m+Ref.level

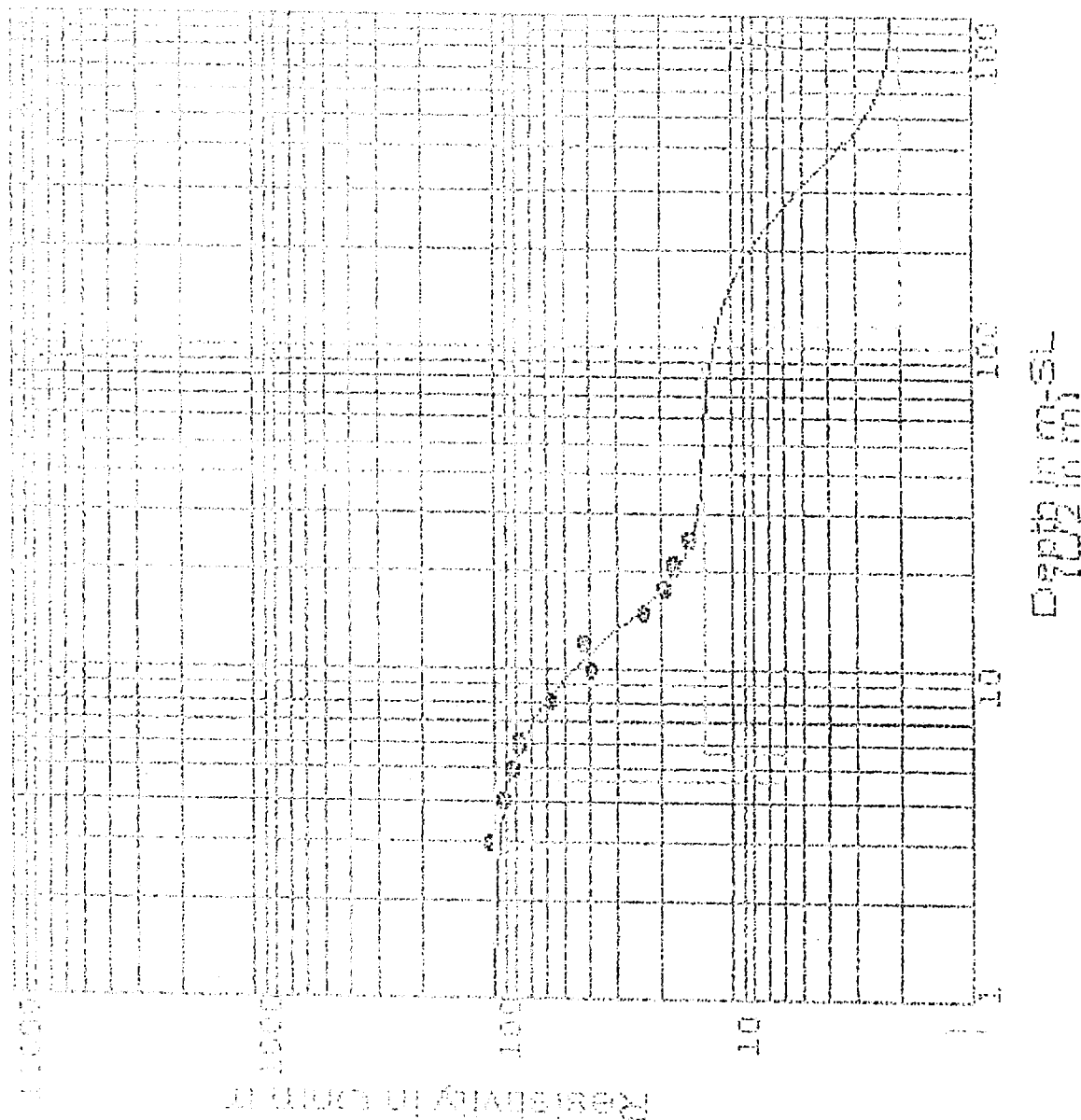
Geo-electrical model
Bottom Layer Resistivity
m - SL Ohm.m

4.61 99
5.67 6
114.64 13

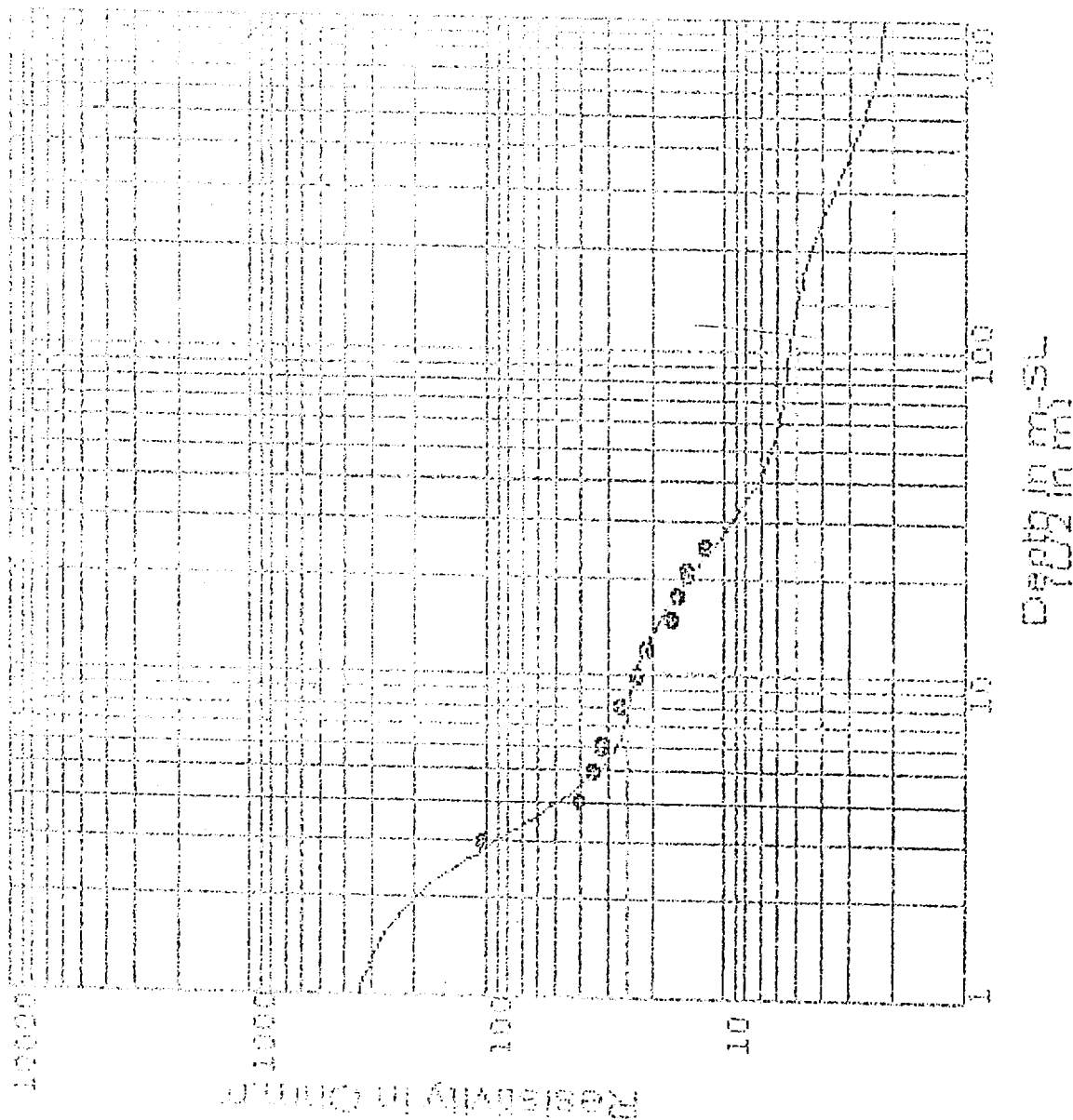
End resistivity: 2

SSD on log-scale 01493

Date (y-m-d) :1999-5 -3



Measurement : JF.13



Coordinates (0 0
Surface level: .00 m+Ref.level

Geo-electrical model
Bottom Layer Resistivity

m - SL Ohm.m

402

25

5

End resistivity: 2

SSD on log-scale 02054

Date (y-m-d) :1999-5 -3

GEO-ELECTRIC LOG: JF.13

Figure No :16