Instituto Tecnológico GeoMinero de España

CAMPAÑA DE GEOFISICA ELECTRICA (S.E.V.) EN EL RIO PALANCIA (VALENCIA)

INSTITUTO TECNOLOGICO GEOMINERO DE ESPAÑA

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MINISTERIO DE INDUSTRIA, COMERCIO Y TURISMO

TITULO	CAMPAÑA DE GEOFISICA ELECTRICA (S.E.V.) EN EL RIO PALANCIA (VALENCIA)
CLIENTE	INSTITUTO TECNOLOGICO GEOMINERO DE ESPAÑA
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Departamento: Geofísica

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1.- INTRODUCCION

1.1.- PRESENTACION

El presente informe corresponde a una Campaña de Geofísica Eléctrica en su modalidad de Sondeos Eléctricos Verticales (S.E.V.), realizada por la Unidad de Geofísica de la E.N. ADARO para el I.T.G.E. Los trabajos de campo se desarrollaron durante el verano de 1992 en el cauce del río Palancia, entre Algar y Estivella (Valencia) (Plano nº 1).

1.2.- OBJETIVOS Y DESCRIPCION DE LA ZONA DE TRABAJO

El trabajo se realizó en el cauce del río Palancia, tal como se refleja en el plano de situación, teniendo como objetivos la determinación de los recubrimientos del lecho del río y la identificación por medio de sus resistividades de la disposición y naturaleza de los materiales situados bajo dicho recubrimiento. De esta manera, se pretendió localizar las zonas más permeables, impermeables y el grado de compactación a fín de ubicar labores para la recarga de acuíferos en las zonas apropiadas. Para la consecución de estos fines se programaron una serie de S.E.V. a lo largo del cauce del río y a distancias apropiadas para la resolución del problema.

2.- TRABAJOS REALIZADOS

2.1.- METODO Y DISPOSITIVO EMPLEADOS

El método empleado ha sido el Eléctrico de Resistividades en su modalidad de Sondeos Eléctricos Verticales (S.E.V.), con dispositivo Schlumberger simétrico. (Las separaciones entre los electrodos de medición y los valores de resistividad obtenidos quedan reflejados en las Hojas de Campo de los S.E.V., como puede observarse en el Anexo).

2.1.1.- Características del equipo utilizado

En la ejecución de los trabajos de campo se utilizó el equipo y material que se describen a continuación:

Composición de un equipo de Geofísica Eléctrica

- Milivoltímetro electrónico con medidas de voltaje absoluto, marca ADARO, modelo FM-1. (La relación de escalas está controlada por resistencias de 0,01% de precisión. La precisión total del aparato es del 1%).

- Amperímetro con escalas más sensibles de 30 miliamperios, y precisión en las medidas de 0,5%, marca ADARO, modelo FM-2.

- Electrodos impolarizables, de vasija porosa para rellenar con una disolución apropiada, para el circuito MN.

- Electrodos de acero templado para el circuito AB.

- Cables de doble aislamiento y resistencia óhmica de 17 ohmios por Km.

- Teléfonos de línea para comunicación con los operarios.

- Localizador de averías o roturas de cable.

Además, equipos auxiliares de jalones, banquetas, herramientas, mazos, etc.

2.2.- PROGRAMACION

Para la consecución de los objetivos propuestos se programaron 45 S.E.V. (Ver Plano nº 1). En la zona de Algar de Palancia los S.E.V. se situaron a 100 m el uno del otro, mientras que en la de Estivella se programaron a 200 m.

Los AB empleados oscilaron en el orden de los 400 y 500 m.

3.- INTERPRETACION

3.1.- BASES INTERPRETATIVAS E INTERPRETACION

Las curvas de S.E.V., obtenidas de la relación resistividad y apertura de dispositivo, han sido interpretadas por medio del programa RESIX-IP de Interpex Ltd. (Los ficheros generados se adjuntan en disquete y sus formatos en el Anexo).

Una vez interpretadas las curvas de S.E.V., y a partir de estos datos, se elaboraron cortes geoeléctricos que relacionan entre sí los S.E.V. En el Plano nº2 están los 4 cortes efectuados. El primero de ellos agrupa los S.E.V. núms. 1 al 25; el segundo los núms. 26 a 31; el tercero del 32 al 39 y, por último, el cuarto los S.E.V. núms. 40 a 45. En ellos, se indica ocasionalmente con una R aquellos valores de resistividad muy altos, que no se cuantifican, aún cuando pueden ser identificados en las interpretaciones adjuntas.

Igualmente, se indica junto a los contactos una señal de interrogación en aquellos casos en que es dudosa o incierta la interpretación adoptada. Es decir, en los casos de conductores finales la curva muestra un tramo descendente, pero por su poca definición la interpretación que se consigue en sólo indicativa. Lo mismo ocurriría con los tramos ascendentes finales, resistivos: su poca definición lleva a interpretaciones solo semicuantitativas.

Seguidamente se hace un comentario a los Cortes Geoeléctricos.

- Perfil S.E.V. nº 1 a 25

Del S.E.V. nº 1 al 10 se determina el espesor de los materiales que hay sobre el substrato resistivo; éstos, presentan dos horizontes: uno superficial resistivo correspondiente a materiales de gruesa granulometría y un segundo con resistividades típicas de rellenos arenosos, con más o menos proporción de arcillas, y de granulometría más fina. En los núms. 11, 12 y 13, el substrato resistivo se muestra aflorante o semiaflorante, para volver a la misma tónica litológica precedente hasta el S.E.V. nº 18. En el 19 tendríamos un resistivo acuñado entre los materiales de relleno; a partir del 21, con resistivo aflorante, se sigue bien la evolución del relleno hasta el final del perfil.

- Perfil S.E.V. nº 26 a 31

Los S.E.V. nº 26 y 27 detectan bien los materiales arenosos sobre el resistivo. A partir de este último, nos encontramos en presencia de dos horizontes resistivos que se han diferenciado, aún cuando corresponden a una sola litología de substrato. Es decir, los S.E.V. núms. 28, 29 y 30 tienen el substrato resistivo muy somero, con un pequeño recubrimiento arenoso en los dos últimos.

- Perfil S.E.V. nº 32 a 39

Al igual que los precedentes determinan perfectamente el substrato resistivo y los espesores de los rellenos a techo del mismo. El máximo desarrollo de los recubrimientos estaría en el 38, con imprecisión de su potencia, pero con un espesor mayor que en el 35, 36 ó 37.

- Perfil S.E.V. nº 40 a 45

Como puede observarse, hay un buen desarrollo de los materiales de relleno, con mayor importancia en el S.E.V. nº 42. Se siguen observando los dos horizontes en el recubrimiento, como en los otros perfiles.

4.- CONCLUSIONES

Se han determinado bien los espesores de las series detríticas sobre el substrato del lecho del río, identificándose dos horizontes que corresponden a las fracciones de gran granulometría (más resistivas) y superficiales, y las más finas con mayor arcillosidad (menos resistivas).

Los valores de resistividad del substrato que han sido identificados pueden servir de guía a la hora de escoger las zonas apropiadas para la situación de las construcciones para la recarga de acuíferos, por ejemplo.

ANEXO

HOJAS DE CAMPO

a. a. adaro

Proyecto: Río Palancia

Zona: Alpuente de Palancia - Valencia

Observador: Juan Gª Cuartinez

Situación:

COORDENADAS		mV: Adaro 01	Rumbo AB
X		mA: GEO 428	
Y		S.E.V. 1	Perfil:
Z			

Estación	AB/2	MN	I (mA)	Ess. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Ess. Volt.	V (mV)	ρ (Ωm)
1	2,68	1	13.5	1V	775	1250					
2	3,73		7.5	30mV	310	1202					
3	5,18		11.2	"	144	1074					
4	7,2		5.8	100mV	30	838					
5	10		4.5	10mV	7.5	522					
6	13,9		7.7	"	5.0	394					
7	19,3		10.8	3mV	1.5	162	10	11.5	30mV	22	209
8	26,8		11.5	"	0.55	108		10.5	10mV	5.4	112
9	37,3	10	17	10mV	3.1	78					
10	51,8		33	"	3.5	89					
11	72		48	"	3.1	105					
12	100		31	3mV	1.2	121					
13	139		48	"	1.02	146					
14	193		52	"	0.70	157					
15	268										
16	373										
17	518										
18	720										
19	1.000										
20	1.390										
21	1.930										
22	2.680										
23	3.730										
24	5.180										
25	7.200										
26	10.000										

OBSERVACIONES: +0.50 m. sobre el nivel del cauce

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

1 m	10 m	50 m	100 m
21,78			
42,92			
83,51			
162,1			
313,4			
606,2			
1.169	109,2		
2.256	217,8		
4.370	429,2		
8.429	836,1		
16.290	1.621		
31.420	3.134		
60.700	6.062	1.175	
	11.690	2.301	
	22.560	4.474	
	43.700	8.702	4.292
	84.290	16.820	8.351
	162.900	32.530	16.210
		62.790	31.340
		121.400	60.620
		234.000	116.900
		451.200	226.600
			437.000
			842.880
			1.628.820
			3.141.510

FECHA: 26-05-92

OBSERVACIONES:

Proyecto: Rio Palancia

Zona: Algar de Palancia - Valencia

Observador: Juan M. Martinez

Situación:

COORDENADAS

X

Y

Z

mV:

mA:

S.E.V. 2

Rumbo AB

Perfil:

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES	1 m	10 m	50 m	100 m
1	2,88	1	6	300mV	128	465						a 145 m. S. del 1	21,78			
2	3,73		11	"	110	429							42,92			
3	5,18		13.5	100mV	72	445						Sobre el nivel del cauce	83,51			
4	7,2		7	"	~~19.5~~	452							162,1			
5	10		7	30mV	10.2	457						Junto a unos caños	313,4			
6	13,9		6.5	10mV	3.5	326							606,2			
7	19,3		9	3mV	1.8	234	10	9	30mV	21	255		1.169	109,2		
8	26,8		18	"	1.13	142		18	"	12.8	155		2.256	217,8		
9	37,3	10	16	10mV	4	107							4.370	429,2		
10	51,8		20	"	2.3	96							8.429	835,1		
11	72		5.2	3mV	0.32	100							16.290	1.621		
12	100		13	"	0.38	92							31.420	3.134		
13	139		22	"	0.35	96							60.700	6.062	1.175	
14	193		24	"	0.21	102								11.690	2.301	
15	268													22.580	4.474	
16	373													43.700	8.702	4.292
17	518													84.290	16.820	8.351
18	720													162.900	32.530	16.210
19	1.000														62.790	31.340
20	1.390														121.400	60.620
21	1.930														234.000	116.900
22	2.680														461.200	225.600
23	3.730															437.000
24	5.180															842.880
25	7.200															1.628.520
26	10.000															3.141.510

FECHA: 26-05-92

OBSERVACIONES:

a. a. edaro

Proyecto: Río Palancia

Zona: Algar de Palancia

Observador: Juan Ma. Quantínez

Situación:

COORDENADAS

X

Y

Z

mV: Solare - 01

mA: 660 N : 328

Rumbo AB

S.E.V. 3

Perfil:

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO

MN	1 m	10 m	50 m	100 m
1	21,78			
2	42,92			
3	83,51			
4	162,1			
5	313,4			
6	606,2			
7	1.169	109,2		
8	2.256	217,8		
9	4.370	429,2		
10	8.429	836,1		
11	16.290	1.621		
12	31.420	3.134		
13	60.700	6.062	1.175	
14		11.690	2.301	
15		22.560	4.474	
16		43.700	8.702	4.292
17		84.290	16.820	8.351
18		162.900	32.530	16.210
19			62.790	31.340
20			121.400	60.620
21			234.000	116.900
22			451.200	225.600
23				437.000
24				842.880
25				1.628.520
26				3.141.510

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)
1	2,88	1	22	1V	545	540					
2	3,73		15	300mV	175	501					
3	5,18		12.5	100mV	76	508					
4	7,2		11	"	37	545					
5	10		22	"	38.5	548					
6	13,9		25	"	19.5	473					
7	19,3		9.5	10mV	2.7	332	10	9.5	100mV	31	356
8	26,8		14	3mV	1.0	161		14	30mV	10.5	163
9	37,3	10	16	10mV	3.62	97					
10	51,8		30	"	3.05	85					
11	72		48	"	2.0	68					
12	100		48	3mV	1.45	95					
13	139		78	"	1.4	109					
14	193		36	"	0.36	117					
15	268										
16	373										
17	518										
18	720										
19	1.000										
20	1.390										
21	1.930										
22	2.680										
23	3.730										
24	5.180										
25	7.200										
26	10.000										

OBSERVACIONES

a 180 m S del 4º 2º

junto a muro carretera

+1 m sobre el cauce

OBSERVACIONES:

FECHA: 26-05-92

a. a. adaro

Proyecto: Río Palancia

Zona: Al sur de Palancia - Valencia

Observador: Juan Ll. Martínez

Situación:

COORDENADAS

X

Y

Z

mV: Adaro - 5 P

mA: GEO Nº 328

S.E.V. 4

Rumbo AB

Perfil:

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES	1 m	10 m	50 m	100 m
1	2,68	1	15	1V	930	1350						a 15 m S de un lago	21,78			
2	3,73		16	"	420	1127						excavado para sacar arena	42,92			
3	5,18		13	300mV	122	784							83,51			
4	7,2		42	"	155	598						a 105 m S del SEV-3	182,1			
5	10		59	100mV	75	398							313,4			
6	13,9		54	"	23	258							606,2			
7	19,3		41	10mV	5.15	147	10	40	100mV	65.5	179		1.169	109,2		
8	26,8		36	"	1.45	91		36	30mV	16.5	100		2.256	217,8		
9	37,3	10	9.5	"	1.8	81							4.370	429,2		
10	51,8		33	"	2.2	84							8.429	836,1		
11	72		24	3mV	1.44	97							16.290	1.621		
12	100		42	"	1.55	116							31.420	3.134		
13	139		19	"	0.42	134							60.700	6.062	1.175	
14	193		25	"	0.32	150								11.690	2.301	
15	268		45	"	0.335	168								22.560	4.474	
16	373													43.700	8.702	4.292
17	518													84.290	16.820	8.351
18	720													162.900	32.530	16.210
19	1.000														62.790	31.340
20	1.390														121.400	60.620
21	1.930														234.000	116.900
22	2.680														451.200	225.600
23	3.730															437.000
24	5.180															842.880
25	7.200															1.628.520
26	10.000															3.141.510

OBSERVACIONES:

FECHA: 26-05-92

e. n. adaro	
Proyecto:	Rio Palancia
Zona:	Algar de Palancia (Valencia)
Observador:	Juan M. Martinez
Situación:	

COORDENADAS

X

Y

Z

mV: Adaro 07
mA: GEO Nº 328

Rumbo AB

S.E.V. 5

Perfil:

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES	1 m	10 m	50 m	100 m
1	2,68	1	13	1V	550	921						a 100 m del 4	21,78			
2	3,73		32	"	645	865							42,92			
3	5,18		51	"	545	892						+1.50 m sobre cauce del río	83,51			
4	7,2		52	300mV	180	561							162,1			
5	10		28	100mV	33.5	375							313,4			
6	13,9		41	30mV	13	192							606,2			
7	19,3		15	3mV	1.4	109	10	15	30mV	14.6	106		1.169	109,2		
8	26,8	10	37	10mV	9.7	57							2.256	217,8		
9	37,3		40	"	4.8	52							4.370	429,2		
10	51,8		35	"	2.6	62							8.429	835,1		
11	72		42	"	2.1	81							16.290	1.621		
12	100		59	"	2.05	109							31.420	3.134		
13	139		47	3mV	0.95	123							60.700	6.062	1.175	
14	193		22	"	0.26	138								11.690	2.301	
15	268		35	"	0.22	142								22.560	4.474	
16	373													43.700	8.702	4.292
17	518													84.290	16.820	8.351
18	720													162.900	32.530	16.210
19	1.000														62.790	31.340
20	1.390														121.400	60.620
21	1.930														234.000	116.900
22	2.680														451.200	225.600
23	3.730															437.000
24	5.180															842.880
25	7.200															1.628.520
26	10.000															3.141.510

OBSERVACIONES:

FECHA: 26-05-92

c. a. adaro

Proyecto: Rio Palancia

Zona: Algar de Palancia - Valencia

Observador: Juan M. Martinez

Situación:

COORDENADAS

X

Y

Z

mV: Adaro 01

mA: GEO N° 328

S.E.V. 6

Rumbo AB

Perfil:

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES	1 m	10 m	50 m	100 m
1	2,68	1	15	1V	875	1270						a 130 m S del 5	21,78			
2	3,73		16	"	500	1341							42,92			
3	5,18		25	"	305	1019						+ 2 m sobre el nivel del	83,51			
4	7,2		22	300mV	107	788						cauce	162,1			
5	10		33	100mV	45	427							313,4			
6	13,9		15	10mV	5.1	206						Gravera.	606,2			
7	19,3		26	"	2.75	124	10	26	100mV	31	130		1.169	109,2		
8	26,8		22	3mV	0.910	93		22	30mV	10	99		2.256	217,8		
9	37,3	10	28	10mV	5.9	90							4.370	429,2		
10	51,8		31	"	4.0	108							8.429	836,1		
11	72		28	"	2.35	136							16.290	1.621		
12	100		20	3mV	1.1	172							31.420	3.134		
13	139		60	"	2.3	232							60.700	6.062	1.175	
14	193		65	"	1.62	291								11.690	2.301	
15	268													22.560	4.474	
16	373													43.700	8.702	4.292
17	518													84.290	16.820	8.351
18	720													162.900	32.530	16.210
19	1.000														62.790	31.340
20	1.390														121.400	60.620
21	1.930														234.000	116.900
22	2.680														451.200	225.600
23	3.730															437.000
24	5.180															842.880
25	7.200															1.628.520
26	10.000															3.141.510

OBSERVACIONES:

FECHA: 27-05-92

e. n. adaro

Proyecto: Rio Palancia

Zona: Algar de Palancia

Observador: Juan M. Martinez

Situación:

COORDENADAS

X

Y

Z

mV: Sdare 01
mA: GEO nº 328

Rumbo AB

S.E.V. 7

Perfil:

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES	1 m	10 m	50 m	100 m
1	2,68	1	4.5	1V	375	1815						a 100 m S del 6	21,78			
2	3,73		6	300mV	165	1180							42,92			
3	5,18		14	"	123	734						+ 2 m sobre el nivel del	83,51			
4	7,2		13.5	100mV	33	396						cauce	162,1			
5	10		28	"	21.5	241							313,4			
6	13,9		22	10mV	4.9	135							606,2			
7	19,3		14	3mV	1.2	100	10	14	30mV	15.8	123		1.169	109,2		
8	26,8		15	"	0.465	70		15	10mV	6.4	93		2.256	217,8		
9	37,3	10	40	10mV	6.15	66							4.370	429,2		
10	51,8		44	"	3.0	57							8.429	836,1		
11	72		34	3mV	1.50	72							16.290	1.621		
12	100		60	"	1.56	82							31.420	3.134		
13	139		20	"	0.34	189							60.700	6.062	1.175	
14	193		23	"	0.27	137								11.690	2.301	
15	268		50	"	0.395	178								22.560	4.474	
16	373													43.700	8.702	4.292
17	518													84.290	16.820	8.351
18	720													162.900	32.530	16.210
19	1.000														62.790	31.340
20	1.390														121.400	60.620
21	1.930														234.000	116.900
22	2.680														461.200	225.600
23	3.730															437.000
24	5.180															842.880
25	7.200															1.628.520
26	10,000															3.141.510

OBSERVACIONES:

FECHA: 27-05-92

e. a. edero

Proyecto: Rio Palancia

Zona: Algar de Palancia

Observador: Juan M. Martinez

Situación:

COORDENADAS

X

Y

Z

mV: Adore 01
mA: GEO 328

S.E.V. 8

Rumbo AB

Perfil:

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES	1 m	10 m	50 m	100 m
1	2,68	1	14	1V	495	770						a 100 m. S del 7	21,78			
2	3,73		9	300mV	114	544							42,92			
3	5,18		10.5	100mV	48	382						+ 1 m. sobre el nivel del	83,51			
4	7,2		10.5	30mV	17.5	270						cauce.	162,1			
5	10		7.2	10mV	4.3	187							313,4			
6	13,9		18	"	3.9	131							606,2			
7	19,3		64	"	4.85	89	10	68	100mV	62	100		1.169	109,2		
8	26,8		29	3mV	0.85	66		29	30mV	10	75		2.256	217,8		
9	37,3	10	17	10mV	3.2	81							4.370	429,2		
10	51,8		14	3mV	1.65	98							8.429	835,1		
11	72		16	"	1.25	127							16.290	1.621		
12	100		16	"	0.85	166							31.420	3.134		
13	139		14	"	0.50	216							60.700	6.062	1.175	
14	193		10	1mV	0.240	281								11.690	2.301	
15	268													22.560	4.474	
16	373													43.700	8.702	4.292
17	518													84.290	16.820	8.361
18	720													162.900	32.530	16.210
19	1.000														62.790	31.340
20	1.390														121.400	60.620
21	1.930														234.000	116.900
22	2.680														461.200	225.600
23	3.730															437.000
24	5.180															842.880
25	7.200															1.628.520
26	10.000															3.141.510

FECHA: 27-05-92

OBSERVACIONES:

e. a. adaro

Proyecto: Río Palancia

Zona: Algar de Palancia

Observador: Juan M. Martínez Peña

Situación:

COORDENADAS

X

Y

Z

mV: Adaro - 01

mA: GEO Nº 328

Rumbo AB

S.E.V. 9

Perfil:

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES	CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN: 1 m	10 m	50 m	100 m
1	2,68	1	9	300 mV	262	634						a 100 m. S. del 8	21,78			
2	3,73		17	"	195	492							42,92			
3	5,18		10	100 mV	51.5	430						Sobre el nivel del cauce.	83,51			
4	7,2		13	"	28	349							162,1			
5	10		22	30 mV	19	271							313,4			
6	13,9		13	10 mV	4.0	187							606,2			
7	19,3		23	"	2.4	122	10	26	100 mV	31	130		1.169	109,2		
8	26,8		18	3 mV	0.635	80		18	10 mV	7.3	88		2.256	217,8		
9	37,3	10 -	16	10 mV	3.4	91							4.370	429,2		
10	51,8		38	"	5.15	113							8.429	836,1		
11	72		34	"	3.4	162							16.290	1.621		
12	100		24.5	3 mV	1.7	217							31.420	3.134		
13	139		57	"	2.65	282							60.700	6.062	1.175	
14	193		60	"	1.45	283								11.690	2.301	
15	268													22.560	4.474	
16	373													43.700	8.702	4.292
17	518													84.290	16.820	8.351
18	720													162.900	32.530	16.210
19	1.000														62.790	31.340
20	1.390														121.400	60.620
21	1.930														234.000	116.900
22	2.680														451.200	225.690
23	3.730															437.000
24	5.180															842.880
25	7.200															1.628.520
26	10.000															3.141.510

OBSERVACIONES:

FECHA: 27-05-92

e. a. adaro

Proyecto: Rio Palancia

Zona: Algar de Palancia (Valencia)

Observador: Juan M. Martínez

Situación:

COORDENADAS	mV: Adaro 01	Rumbo AB
X	mA: GEO N° 328	
Y	S.E.V. 10	Perfil:
Z		

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)
1	2,68	1	7	300 mV	205	638					
2	3,73		4	100 mV	49	526					
3	5,18		7	"	32	382					
4	7,2		43.5	"	77	287					
5	10		43	"	30	219					
6	13,9		30	10mV	8	162					
7	19,3		44	"	5.0	133	10	51	100mV	78	167
8	26,8		36	"	3.1	132		33	"	23.5	155
9	37,3		16	3mV	0.51	139		16	10mV	6.2	166
10	51,8	10	20	10mV	4.6	192					
11	72		20	"	2.5	203					
12	100		32	"	2.1	206					
13	139		29	3mV	1.0	209					
14	193		33	"	0.45	159					
15	268		40	"	0.215	120					
16	373										
17	518										
18	720										
19	1.000										
20	1.390										
21	1.930										
22	2.680										
23	3.730										
24	5.180										
25	7.200										
26	10.000										

OBSERVACIONES

a 100 m. S. del 9

Sobre el cauce del rio.

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO

MN	1 m	10 m	50 m	100 m
1	21,78			
	42,92			
	83,51			
	162,1			
	313,4			
	606,2			
10	1.169	109,2		
	2.256	217,8		
	4.370	429,2		
	8.429	836,1		
	16.290	1.621		
	31.420	3.134		
	60.700	6.062	1.175	
		11.690	2.301	
		22.560	4.474	
		43.700	8.702	4.292
		84.290	16.820	8.351
		162.900	32.530	16.210
			62.790	31.340
			121.400	60.620
			234.000	116.900
			451.200	225.600
				437.000
				842.880
				1.628.520
				3.141.510

OBSERVACIONES:

FECHA: 27-05-92

e. a. adaro

Proyecto: Río Palancia

Zona: Algar de Palancia

Observador: Juan Cn. Cuartines

Situación:

COORDENADAS

X

Y

Z

mV: Adaro - 01
mA: GEO nº 328

Rumbo AB

S.E.V. 11

Perfil:

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES
1	2,68	1	19.5	1V	650	726						Sobre el nivel del cauce
2	3,73		12	300mV	182	651						
3	5,18		8.5	100mV	63.5	624						A 100 m S del 10
4	7,2		21	"	77	594						
5	10		20.5	"	44	673						Afloramientos de calizas
6	13,9		15	"	21	849						a un extremo y otro
7	19,3		10.5	10mV	9.2	1024						del cauce.
8	26,8		10.5	"	5.7	1225	10	10.5	100mV	58.5	1213	
9	37,3	10.	12	100mV	38	1359						
10	51,8		16	"	24	1253						
11	72		29	30mV	15	838						
12	100		21	10mV	3.3	492						
13	139		38	"	2.2	351						
14	193		25	3mV	0.74	346						
15	268		40	"	0.61	344						
16	373											
17	518											
18	720											
19	1.000											
20	1.390											
21	1.930											
22	2.680											
23	3.730											
24	5.180											
25	7.200											
26	10.000											

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

Estación	1 m	10 m	50 m	100 m
1	21,78			
2	42,92			
3	83,51			
4	162,1			
5	313,4			
6	606,2			
7	1.169	109,2		
8	2.256	217,8		
9	4.370	429,2		
10	8.429	836,1		
11	16.290	1.621		
12	31.420	3.134		
13	60.700	6.062	1.175	
14		11.690	2.301	
15		22.560	4.474	
16		43.700	8.702	4.292
17		84.290	16.820	8.351
18		162.900	32.530	16.210
19			62.790	31.340
20			121.400	60.620
21			234.000	116.900
22			451.200	225.600
23				437.000
24				842.880
25				1.628.520
26				3.141.510

OBSERVACIONES:

FECHA: 27-05-92

a. a. edaro

Proyecto: Río Palancia

Zona: Algar de Palancia

Observador: Juan M. Martínez

Situación:

COORDENADAS

X

Y

Z

mV: Adaro · 01

mA: GEO nº 238

S.E.V. 12

Rumbo AB

Perfil:

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES
1	2,68	1	10	300mV	255	555						Sobre el nivel del cauce
2	3,73		10	"	125	537						
3	5,18		19	"	137	602						a 100 m. S del 11
4	7,2		26	"	115	717						
5	10		28	100mV	62	883						Afloramientos de Caliza a
6	13,9		45	"	75	1010						un extremo y otro del
7	19,3		30	"	30	1169						cauce
8	26,8		28	30mV	16.5	1329	10	27.5	300mV	135	1069	
9	37,3		20	10mV	6.0	1311		20	100mV	49	1051	
10	51,8		54	"	8.05	1257		54	"	66	1021	
11	72	10	10	"	5.1	827						
12	100		21.5	"	4.5	656						
13	139		14	3mV	0.81	351						
14	193		10	"	0.125	146						
15	268											
16	373											
17	518											
18	720											
19	1.000											
20	1.390											
21	1.930											
22	2.680											
23	3.730											
24	5.180											
25	7.200											
26	10.000											

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

1 m	10 m	50 m	100 m
21,78			
42,92			
83,51			
162,1			
313,4			
606,2			
1.169	109,2		
2.256	217,8		
4.370	429,2		
8.429	835,1		
16.290	1.621		
31.420	3.134		
60.700	6.062	1.175	
	11.690	2.301	
	22.560	4.474	
	43.700	8.702	4.292
	84.290	16.820	8.351
	162.900	32.530	16.210
		62.790	31.340
		121.400	60.620
		234.000	116.900
		451.200	225.600
			437.000
			842.880
			1.628.520
			3.141.510

OBSERVACIONES:

FECHA: 27-05-92

e. a. adaro

Proyecto: Rio Palancia

Zona: Algar de Palancia

Observador: Juan Ca. Cuartinas.

Situación:

COORDENADAS

X

Y

Z

mV: Adaro 01

mA: GEO N° 328

S.E.V. 13

Rumbo AB

Perfil:

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES	CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN 1 m	10 m	50 m	100 m
1	2,68	1	12	300mV	255	463						+ 0.30 m. sobre el nivel de cauce	21,78			
2	3,73		11.5	"	117	437							42,92			
3	5,18		5.5	100mV	30	456						Afloramientos de calizas	83,51			
4	7,2		18.5	"	71	622						a ambos extremos del	162,1			
5	10		10	"	21.5	674						cauce.	313,4			
6	13,9		5.2	10mV	7.0	816	[illegible]						606,2			
7	19,3		11.5	"	8.0	813	10	12	100mV	84	764		1.169	109,2		
8	26,8		19	"	6.3	748		18	"	61.5	744		2.256	217,8		
9	37,3		32	"	5.15	703		34	"	54	687		4.370	429,2		
10	51,8	10	14.5	30mV	10.2	587							8.429	836,1		
11	72		9	10mV	2.1	378							16.290	1.621		
12	100		19	"	1.55	256							31.420	3.134		
13	139		16	3mV	0.50	189							60.700	6.062	1.175	
14	193		17	"	0.21	144								11.690	2.301	
15	268													22.560	4.474	
16	373													43.700	8.702	4.292
17	518													84.290	16.820	8.351
18	720													162.900	32.530	16.210
19	1.000														62.790	31.340
20	1.390														121.400	60.620
21	1.930														234.000	116.900
22	2.680														461.200	225.600
23	3.730															437.000
24	5.180															842.880
25	7.200															1.628.520
26	10.000															3.141.510

OBSERVACIONES:

FECHA: 27-05-92

c. a. edaro

Proyecto: Rio Palancia

Zona: Algar de Palancia (Valencia)

Observador: Juan Ch. Cuartinues

Situación:

COORDENADAS

X

Y

Z

mV: Adaro - 01

mA: GEO 328

S.E.V. 14

Rumbo AB

Perfil:

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES
1	2,68	1	11	1V	525	1040						A 100 m.S. del 13.
2	3,73		19	"	370	836						
3	5,18		14	300mV	124	740						
4	7,2		10	100mV	46.5	754						
5	10		3	10mV	7.35	768						
6	13,9		6.5	1	7.2	671						
7	19,3		5	"	2.55	596	10	5	100mV	37	590	
8	26,8	10	14	100mV	24	373						
9	37,3		10	10mV	5.4	232						
10	51,8		8.2	3mV	1.65	168						
11	72		11.5	"	1.1	155						
12	100		36	1	1.8	157						
13	139		25	1	0.61	148						
14	193		53	1	0.59	130						
15	268											
16	373											
17	518											
18	720											
19	1.000											
20	1.390											
21	1.930											
22	2.680											
23	3.730											
24	5.180											
25	7.200											
26	10.000											

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

1 m	10 m	50 m	100 m
21,78			
42,92			
83,51			
162,1			
313,4			
606,2			
1.169	109,2		
2.256	217,8		
4.370	429,2		
8.429	835,1		
16.290	1.621		
31.420	3.134		
60.700	6.062	1.175	
	11.690	2.301	
	22.560	4.474	
	43.700	8.702	4.292
	84.290	16.820	8.351
	162.900	32.530	16.210
		62.790	31.340
		121.400	60.620
		234.000	116.900
		451.200	225.600
			437.000
			842.880
			1.628.520
			3.141.510

OBSERVACIONES:

FECHA: 27-05-92

a. a. adaro

Proyecto: Rio Palancia

Zona: Algar de Palancia

Observador: Juan Ag. Cuartieres

Situación:

COORDENADAS

X

Y

Z

mV: Adaro - 01

mA: GEO 328

S.E.V. 15

Rumbo AB

Perfil:

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)
1	2,68	1	6	30cmV	120	436					
2	3,73		13	"	155	512					
3	5,18		9	100mV	61	566					
4	7,2		11	"	36.5	538					
5	10		19	"	28	462					
6	13,9		17	10mV	9.7	346					
7	19,3		11	"	2.05	218	10	11.5	30mV	22	209
8	26,8		17	3mV	1.15	153		17	"	10.8	138
9	37,3	10	15	10mV	3.8	109					
10	51,8		21	"	2.65	105					
11	72		46	"	3.0	106					
12	100		57	"	2.0	120					
13	139		33	3mV	0.64	118					
14	193		42	"	0.46	128					
15	268										
16	373										
17	518										
18	720										
19	1.000										
20	1.390										
21	1.930										
22	2.680										
23	3.730										
24	5.180										
25	7.200										
26	10.000										

OBSERVACIONES

A 100 m S. del 14

+ 0.50 m. sobre el cauce

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

1 m	10 m	50 m	100 m
21,78			
42,92			
83,51			
162,1			
313,4			
606,2			
1.189	109,2		
2.256	217,8		
4.370	429,2		
8.429	835,1		
16.290	1.621		
31.420	3.134		
60.700	6.062	1.175	
	11.690	2.301	
	22.560	4.474	
	43.700	8.702	4.292
	84.290	16.820	8.351
	162.900	32.530	16.210
		62.790	31.340
		121.400	60.620
		234.000	116.900
		451.200	225.600
			437.000
			842.880
			1.628.520
			3.141.510

OBSERVACIONES:

FECHA: 27-05-92

a. a. edoro

Proyecto: Río Palancia

Zona: Algar de Palancia

Observador: Lucas Gu Cuartéras

Situación:

COORDENADAS

X

Y

Z

mV: Adaro 01

mA: GEO N.º 328

S.E.V. 16

Rumbo AB N - 10° - W

Perfil:

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES
1	2,68	1	22	1V	685	678						
2	3,73		21	"	290	593						
3	5,18		31	300mV	183	493						
4	7,2		39	"	102	424						
5	10		14	100mV	16	358						
6	13,9		11	10mV	4.7	259						
7	19,3		7	3mV	1.25	209	10	7	30mV	13.5	210	
8	26,8	10	6	10mV	4.15	151						
9	37,3		11	"	3.0	117						
10	51,8		20	"	2.3	96						
11	72		6	3mV	0.375	101						
12	100		14	"	0.51	114						
13	139		11.5	"	0.25	132						
14	193		13.5	"	0.16	139						
15	268											
16	373											
17	518											
18	720											
19	1.000											
20	1.390											
21	1.930											
22	2.680											
23	3.730											
24	5.180											
25	7.200											
26	10.000											

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

1 m	10 m	50 m	100 m
21,78			
42,92			
83,51			
162,1			
313,4			
606,2			
1.169	109,2		
2.256	217,8		
4.370	429,2		
8.429	836,1		
16.290	1.621		
31.420	3.134		
60.700	6.062	1.175	
	11.690	2.301	
	22.560	4.474	
	43.700	8.702	4.292
	84.290	16.820	8.351
	162.900	32.530	16.210
		62.790	31.340
		121.400	60.620
		234.000	116.900
		451.200	225.600
			437.000
			842.880
			1.628.520
			3.141.510

OBSERVACIONES:

FECHA: 28-05-92

c. a. odero

Proyecto: Río Palancia

Zona: Algar de Palancia (Valencia)

Observador: Juan Jo. Martínez

Situación:

COORDENADAS

X

Y

Z

mV: Adaro 01

mA: GEO N: 328

Rumbo AB: N-10°-W

S.E.V. 17

Perfil:

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES
1	2,68	1	4	300mV	145	790						a 100 m S. del 16
2	3,73		7.2	"	112	668						
3	5,18		6	100mV	42	585						
4	7,2		4.5	30mV	13.2	475						
5	10		4	10mV	4.25	333						
6	13,9		7.5	"	2.65	314						
7	19,3		14.5	3mV	1.5	181	10	14.5	30mV	19.5	147	
8	26,8		7.5	"	0.21	63		7.5	10mV	2.95	86	
9	37,3		20	"	0.25	55		21	"	3.5	72	
10	51,8	10	42	10mV	3.8	76						
11	72		11.5	3mV	0.64	90						
12	100		15	"	0.50	105						
13	139		11	"	0.225	124						
14	193		29	"	0.35	141						
15	268		52	"	0.375	163						
16	373											
17	518											
18	720											
19	1.000											
20	1.390											
21	1.930											
22	2.680											
23	3.730											
24	5.180											
25	7.200											
26	10.000											

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

1 m	10 m	50 m	100 m
21,78			
42,92			
83,51			
162,1			
313,4			
606,2			
1.169	109,2		
2.256	217,8		
4.370	429,2		
8.429	835,1		
16.290	1.621		
31.420	3.134		
60.700	6.062	1.175	
	11.690	2.301	
	22.560	4.474	
	43.700	8.702	4.292
	84.290	16.820	8.351
	162.900	32.530	16.210
		62.790	31.340
		121.400	60.620
		234.000	116.900
		451.200	225.600
			437.000
			842.880
			1.628.520
			3.141.510

OBSERVACIONES:

FECHA: 28-05-92

e. a. edaro

Proyecto: Río Palancia

Zona: Algar de Palancia

Observador: Juan Ma. Cuartinos Peña

Situación:

COORDENADAS

X

Y

Z

mV: Adaro - 01

mA: GEO N° 328

S.E.V. 18

Rumbo AB N-10°-W

Perfil:

Estación	AB/2	MN	I (mA)	Ess. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Ess. Volt.	V (mV)	ρ (Ωm)
1	2,68	1	5.5	300mV	220	871					
2	3,73		2.8	100mV	41	629					
3	5,18		9.2	"	58	526					
4	7,2		7.8	"	21	436					
5	10		7	10mV	7.9	354					
6	13,9		20	"	8.5	258					
7	19,3		10	"	2.2	214	10	12	30mV	19	173
8	26,8		21	"	1.4	150		21	"	11	114
9	37,3		44	"	1.2	119		45	"	9.45	98
10	51,8	10	37	"	21	65					
11	72		6.5	3mV	0.31	77					
12	100		11	"	0.315	90					
13	139		20	"	0.29	88					
14	193		36	"	0.25	81					
15	268										
16	373										
17	518										
18	720										
19	1.000										
20	1.390										
21	1.930										
22	2.680										
23	3.730										
24	5.180										
25	7.200										
26	10.000										

OBSERVACIONES

a 100 m S del 17

Sobre el cauce del río.

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

1 m	10 m	50 m	100 m
21,78			
42,92			
83,51			
162,1			
313,4			
606,2			
1.169	109,2		
2.256	217,8		
4.370	429,2		
8.429	836,1		
16.290	1.621		
31.420	3.134		
60.700	6.062	1.175	
	11.690	2.301	
	22.560	4.474	
	43.700	8.702	4.292
	84.290	16.820	8.351
	162.900	32.530	16.210
		62.790	31.340
		121.400	60.620
		234.000	116.900
		451.200	225.600
			437.000
			842.880
			1.628.520
			3.141.510

OBSERVACIONES:

FECHA: 28-05-92

a. a. adaro

Proyecto: Río Palancia

Zona: Algar de Palancia (Valencia)

Observador: Juan A. Cuartinez

Situación:

COORDENADAS

X

Y

Z

mV: Adaro 01

mA: GEO Nº 328

S.E.V. 19

Rumbo AB N - 10° - W

Perfil:

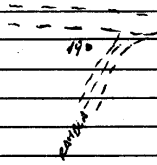
Estación	AB/2	M N	I (mA)	Esc. Volt.	V (mV)	ρ(Ω m)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ω m)
1	2,68	1	8	1V	350	953					
2	3,73		24.5	"	295	517					
3	5,18		18	100mV	48.5	405	(405)				
4	7,2		18	"	37.5	338					
5	10		14	30mV	11.5	257					
6	13,9		15	10mV	5.0	202					
7	19,3		17.5	"	2.2	147	10	18	100mV	35	212
8	26,8		16.5	3mV	0.95	130		16.5	30mV	14	185
9	37,3		98	10mV	2.9	129		103	100mV	41	171
10	51,8	10	14.5	"	3.0	173					
11	72		22	"	2.0	147					
12	100		23	3mV	1.05	143					
13	139		21	"	0.60	173					
14	193		20	"	0.38	222					
15	268										
16	373										
17	518										
18	720										
19	1.000										
20	1.390										
21	1.930										
22	2.680										
23	3.730										
24	5.180										
25	7.200										
26	10.000										

OBSERVACIONES

+ 2 m. sobre el cauce del Río

al E junto al cauce afloramientos de caliza.

A 100 m. al S del 18



CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

1 m	10 m	50 m	100 m
21,78			
42,92			
83,51			
162,1			
313,4			
606,2			
1.169	109,2		
2.256	217,8		
4.370	429,2		
8.429	835,1		
16.290	1.621		
31.420	3.134		
60.700	6.062	1.175	
	11.690	2.301	
	22.560	4.474	
	43.700	8.702	4.292
	84.280	16.820	8.351
	162.900	32.530	16.210
		62.790	31.340
		121.400	60.620
		234.000	116.900
		451.200	225.600
			437.000
			842.880
			1.626.520
			3.141.510

OBSERVACIONES:

FECHA: 29-05-92

e. a. adaro

Proyecto: Rio Palancia

Zona: Algar de Palancia (Valencia)

Observador: Juan M. Martinez

Situación:

COORDENADAS

X

Y

Z

mV: Adaro 01

mA: GEO Nº 328

Rumbo AB: N- 20°- W

S.E.V. 20

Perfil:

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES	CONSTANTES PARA DISPOSITIVO SCHLUMBERGER SIMETRICO MN 1 m	10 m	50 m	100 m
1	2,68	1	12.5	300mV	192	335						+ 1 m sobre el nivel del cauce	21,78			
2	3,73		95	100mV	60	275							42,92			
3	5,18		17.5	"	58	276						A 100 m S del 19	83,51			
4	7,2		20	"	36.5	297							162,1			
5	10		29	100mV	25	270							313,4			
6	13,9		14	10mV	5.00	234							606,2			
7	19,3		9.0	"	1.6	208	10	9.0	30mV	20.5	249	Repetimos el SEV	1.169	109,2		
8	26,8		15	3mV	1.08	162		15.5	"	13.7	194	por saltarse una señal.	2.256	217,8		
9	37,3		~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~		12	10mV	3.7	132		4.370	429,2		
10	51,8	10	29	10mV	3.8	109							8.429	836,1		
11	72		23.5	"	1.6	110							16.290	1.621		
12	100		27	3mV	1.0	116							31.420	3.134		
13	139		20	"	0.37	192							60.700	6.062	1.175	
14	193		13.5	"	0.125	108								11.690	2.301	
15	268													22.560	4.474	
16	373													43.700	8.702	4.292
17	518													84.290	16.820	8.361
18	720													162.900	32.530	16.210
19	1.000														62.790	31.340
20	1.390														121.400	60.620
21	1.930														234.000	116.900
22	2.680														451.200	225.600
23	3.730															437.000
24	5.180															842.880
25	7.200															1.628.520
26	10.000															3.141.510

OBSERVACIONES:

FECHA: 28-05-92

e. a. adaro

Proyecto: Rio Palancia

Zona: Algar de Rio Palancia

Observador: Juan M. Martinez

Situación:

COORDENADAS	
X	
Y	
Z	

mV: Adaro - 01
mA: GEO Nº 328

Rumbo AB: N - 20° W

S.E.V. 21

Perfil:

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES	1 m	10 m	50 m	100 m
1	2,68	1	10	300mV	245	534						a 100 m. S. del 20	21,78			
2	3,73		15	"	155	444							42,92			
3	5,18		21	100mV	87	346						Sobre el nivel del cauce	83,51			
4	7,2		11	"	21	309							162,1			
5	10		7.5	10mV	6.7	280							313,4			
6	13,9		13	"	5.9	275							606,2			
7	19,3		9.5	"	2.2	271	10	9	30mV	21.5	261		1.169	109,2		
8	26,8	10	9.5	30mV	12	275							2.256	217,8		
9	37,3		13	"	9.25	305							4.370	429,2		
10	51,8		10.5	10mV	4	318							8.429	835,1		
11	72		12	"	1.9	257							16.290	1.621		
12	100		17	3mV	1.0	184							31.420	3.134		
13	139		10	"	0.21	127							60.700	6.062	1.175	
14	193		14	"	0.170	142						27.5 - 0.34 = 145		11.690	2.301	
15	268		30	"	0.215	161								22.560	4.474	
16	373													43.700	8.702	4.292
17	518													84.290	16.820	8.351
18	720													162.900	32.530	16.210
19	1.000														62.790	31.340
20	1.390														121.400	60.620
21	1.930														234.000	116.900
22	2.680														451.200	225.600
23	3.730															437.000
24	5.180															842.880
25	7.200															1.628.520
26	10.000															3.141.510

OBSERVACIONES:

FECHA: 28-05-92

a. a. edaro

Proyecto: Río Palancia

Zona: Algar de Palancia (Valencia)

Observador: Juan de Cuartiella

Situación:

COORDENADAS

X

Y

Z

mV: Adaro - 01

mA: GEO Nº 328

Rumbo AB: N - 20° - W

S.E.V. 22

Perfil:

Estación	AB/2	M N	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES	CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN 1 m	10 m	50 m	100 m
1	2,68	1	8	1 V	650	1770						+ 1 m. sobre el cauce	21,78			
2	3,73		7.5	"	280	1602						del río	42,92			
3	5,18		6	100 mV	77	1072							83,51			
4	7,2		4.5	"	22	792						A 100 m. S/. del 21	162,1			
5	10		5.2	30 mV	12	723							313,4			
6	13,9		26.5	100 mV	31.5	721							606,2			
7	19,3		23	"	15	762	10	23	300 mV	137	650		1.169	109,2		
8	26,8		12	10 mV	3.75	705		12	100 mV	35	635		2.256	217,8		
9	37,3		22	"	3.9	775		22	"	36	702		4.370	429,2		
10	51,8	10	15	30 mV	12.5	696							8.429	836,1		
11	72		26.5	"	10	612							16.290	1.621		
12	100		27	10 mV	3.55	412							31.420	3.134		
13	139		25	"	1.45	352							60.700	6.062	1.175	
14	193		29	3 mV	0.95	383								11.690	2.301	
15	268		24	"	0.45	423								22.560	4.474	
16	373													43.700	8.702	4.292
17	518													84.290	16.820	8.351
18	720													162.900	32.530	16.210
19	1.000														62.790	31.340
20	1.390														121.400	60.620
21	1.930														234.000	116.900
22	2.680														451.200	225.600
23	3.730															437.000
24	5.180															842.880
25	7.200															1.628.520
26	10.000															3.141.510

OBSERVACIONES:

FECHA: 28-05-92

c. a. adaro

Proyecto: Río Palancia

Zona: Algar de Palancia (Valencia)

Observador: Juan M. Martínez

Situación:

COORDENADAS

X

Y

Z

mV: Adaro 01
mA: GEO 323

S.E.V. 23

Rumbo AB: N - 20° - W

Perfil:

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES	1 m	10 m	50 m	100 m
1	2,68	1	15	3V	1550	2251						A 100 m. S' del 22	21,78			
2	3,73		21	"	1060	2166							42,92			
3	5,18		12.5	1V	285	1904						+ 4 m. sobre el nivel del	83,51			
4	7,2		6	100mV	55	1486						cauce.	162,1			
5	10		7.5	"	25	1045							313,4			
6	13,9		8.2	10mV	8.9	658							606,2			
7	19,3		158	100mV	53.5	396	10	158	1V	635	439		1.169	109,2		
8	26,8		150	30mV	16.5	248		150	"	175	254		2.256	217,8		
9	37,3		115	10mV	6.15	234		115	100mV	63	235		4.370	429,2		
10	51,8	10	48	30mV	15.5	270							8.429	835,1		
11	72		9.5	10mV	2.1	358							16.290	1.621		
12	100		17	"	2.4	442							31.420	3.134		
13	139		27	"	1.8	404							60.700	6.062	1.175	
14	193		13.5	3mV	0.35	303								11.690	2.301	
15	268													22.560	4.474	
16	373													43.700	8.702	4.292
17	518													84.290	16.820	8.351
18	720													162.900	32.530	16.210
19	1.000														62.790	31.340
20	1.390														121.400	60.620
21	1.930														234.000	116.900
22	2.680														461.200	225.600
23	3.730															437.000
24	5.180															842.880
25	7.200															1.628.520
26	10.000															3.141.510

FECHA: 28-05-92

OBSERVACIONES:

Proyecto: Río Palancia

Zona: Algar de Palancia

Observador: Juan M. Martínez

Situación:

COORDENADAS

X

Y

Z

mV: Adaro 01

mA: GEO Nº 328

AB: N - 20° - W

S.E.V. 24

Perfil:

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES	MN 1 m	MN 10 m	MN 50 m	MN 100 m
1	2,68	1	19	1V	400	459						Sobre el nivel del cauce	21,78			
2	3,73		37	"	380	441							42,92			
3	5,18		66	"	325	411						• SEV 25	83,51			
4	7,2		23	100mV	39	275							162,1			
5	10		45	"	32	223							313,4			
6	13,9		33	10mV	5.5	145						49m.	606,2			
7	19,3		Sobre el Palo									SEV 24	1.169	109,2		
8	26,8		145	10mV	4.3	67	10	145	100mV	44	66	19 m al eje de la carretera nueva	2.256	217,8		
9	37,3	10	17.5	"	3.0	74							4.370	429,2		
10	51,8		46	"	5.3	96							8.429	835,1		
11	72		59	"	4.6	126							16.290	1.621		
12	100		12	1mV	0.61	159						a 100 m S.E del 23	31.420	3.134		
13	139		20	"	0.60	182							60.700	6.062	1.175	
14	193		18	"	0.35	227								11.690	2.301	
15	268													22.560	4.474	
16	373													43.700	8.702	4.292
17	518													84.290	16.820	8.361
18	720													162.900	32.530	16.210
19	1.000														62.790	31.340
20	1.390														121.400	60.620
21	1.930														234.000	116.900
22	2.680														451.200	225.600
23	3.730															437.000
24	5.180															842.880
25	7.200															1.628.520
26	10.000															3.141.510

OBSERVACIONES:

FECHA: 28-05-92

a. a. edaro

Proyecto: Río Palancia

Zona: Algar de Palancia (Valencia)

Observador: Juan Ma. Quartínez

Situación:

COORDENADAS		mV: Adaro 01	Rumbo AB
X		mA: GEO 328	N - 20° - W
Y		S.E.V. 25	Perfil:
Z			

Estación	AB/2	M N	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES
1	2,68	1	45	3V	1900	919						+ 4 m. sobre el nivel del cauce
2	3,73		17	1V	270	682						
3	5,18		32	300mV	165	431						A 100 m. S. del 24
4	7,2		30	100mV	51	276						
5	10		48	"	31	302						
6	13,9		22	10mV	5.2	143						
7	19,3		137	30mV	11.5	98	10	140	300mV	150	117	
8	26,8		125	10mV	3.6	67		125	100mV	45	78	
9	37,3	10	120	30mV	19	68						
10	51,8		45	10mV	4.2	78						
11	72		50	"	3.0	97						
12	100		76	"	3.1	128						
13	139		52	3mV	1.1	128						
14	193		90	"	1.0	129						
15	268											
16	373											
17	518											
18	720											
19	1.000											
20	1.390											
21	1.930											
22	2.680											
23	3.730											
24	5.180											
25	7.200											
26	10.000											

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

1 m	10 m	50 m	100 m
21,78			
42,92			
83,51			
162,1			
313,4			
606,2			
1.169	109,2		
2.256	217,8		
4.370	429,2		
8.429	835,1		
16.290	1.621		
31.420	3.134		
60.700	6.062	1.175	
	11.690	2.301	
	22.560	4.474	
	43.700	8.702	4.292
	84.290	16.820	8.351
	162.900	32.530	16.210
		62.790	31.340
		121.400	60.620
		234.000	116.900
		451.200	225.600
			437.000
			842.880
			1.628.520
			3.141.510

OBSERVACIONES:

FECHA: 1-06-92

o. a. edaro

Proyecto: Río Palancia

Zona: Estivella - Valencia

Observador: Juan Ag. Martínez

Situación:

COORDENADAS

X

Y

Z

mV: Edaro - 01

mA: GEO N= 480

Rumbo AB: N. 20° E

S.E.V. 26

Perfil:

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES
1	2,68	1	22	1V	565	559						+ 5 m. sobre el nivel del cauce
2	3,73		27	"	345	548						
3	5,18		72	"	480	557						
4	7,2		125	"	350	454						
5	10		208	"	245	369						
6	13,9		146	100mV	72	299						
7	19,3		81	"	16.5	238						
8	26,8		100	100mV	7.6	171	10	100	100mV	82	179	
9	37,3		150	"	4.3	125		150	"	46	132	
10	51,8	10	102	30mV	12.5	102						
11	72		45	10mV	2.65	95						
12	100		82	"	2.5	96						
13	139		79	3mV	1.3	100						
14	193		190	"	1.82	112						
15	268											
16	373											
17	518											
18	720											
19	1.000											
20	1.390											
21	1.930											
22	2.680											
23	3.730											
24	5.180											
25	7.200											
26	10.000											

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

1 m	10 m	50 m	100 m
21,78			
42,92			
83,51			
162,1			
313,4			
606,2			
1.169	109,2		
2.256	217,8		
4.370	429,2		
8.429	835,1		
16.290	1.621		
31.420	3.134		
60.700	6.062	1.175	
	11.690	2.301	
	22.560	4.474	
	43.700	8.702	4.292
	84.290	16.820	8.351
	162.900	32.530	16.210
		62.790	31.340
		121.400	60.620
		234.000	116.900
		451.200	225.600
			437.000
			842.880
			1.628.520
			3.141.510

OBSERVACIONES:

FECHA: 2-06-92

a. a. edaro

Proyecto: Río Palancia

Zona: Estivella - Talancia

Observador: Juan C. Quartines

Situación:

COORDENADAS	mV: Sdaro - 01	Rumbo AB
X	mA: GEO Nº 480	N - 20° - E
Y	S.E.V. 27	Perfil:
Z		

Estación	AB/2	M N	I (mA)	Esc. Volt.	V (mV)	ρ(Ω m)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ω m)
1	2,68	1	8	30mV	265	721					
2	3,73		21	1V	325	664					
3	5,18		37	"	220	497					
4	7,2		89	"	210	382					
5	10		69	100mV	67	304					
6	13,9		77	"	32	252					
7	19,3		139	"	25	210					
8	26,8		78	10mV	6.2	179	10	77	100mV	55	156
9	37,3		35		1.15	140		35	30mV	10	123
10	51,8	10	65	"	9.0	116					
11	72		97	"	7.2	120					
12	100		92	"	3.95	135					
13	139		152	"	3.6	144					
14	193		107	"	1.55	169					
15	268										
16	373										
17	518										
18	720										
19	1.000										
20	1.390										
21	1.930										
22	2.680										
23	3.730										
24	5.180										
25	7.200										
26	10.000										

OBSERVACIONES

+5 m. sobre el nivel del cauce

A 200 m. S del 26

y 300 m. N del 28

Sobre Borde cauces.

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

1 m	10 m	50 m	100 m
21,78			
42,92			
83,51			
162,1			
313,4			
606,2			
1.169	109,2		
2.256	217,8		
4.370	429,2		
8.429	836,1		
16.290	1.621		
31.420	3.134		
60.700	6.062	1.175	
	11.690	2.301	
	22.560	4.474	
	43.700	8.702	4.292
	84.290	16.820	8.351
	162.900	32.530	16.210
		62.790	31.340
		121.400	60.620
		234.000	116.900
		451.200	225.600
			437.000
			842.880
			1.628.520
			3.141.510

OBSERVACIONES:

FECHA: 2-06-92

a. a. adaro

Proyecto: Río Palancia

Zona: Estivella - Valencia

Observador: Juan Ca. Quartinez

Situación:

COORDENADAS

X

Y

Z

mV: Adaro 01

mA: GEO N° 480

Rumbo AB: N - 20° - E

S.E.V. 28

Perfil:

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)
1	2,68	1	7.5	1V	350	1016					
2	3,73		6.5	300mV	135	891					
3	5,18		14.5	"	115	662					
4	7,2		16	100mV	43.5	441					
5	10		24	"	21	274					
6	13,9		18	10mV	5.0	168					
7	19,3		20	"	3.5	146	10	20	100mV	27	147
8	26,8	10	28.5	30mV	18.5	141					
9	37,3		22	10mV	7.8	152					
10	51,8		35	"	7.0	167					
11	72		53	"	6.1	187					
12	100		100	"	7.2	226					
13	139		102	"	4.5	267					
14	193		54	3mV	1.55	307					
15	268										
16	373										
17	518										
18	720										
19	1.000										
20	1.390										
21	1.930										
22	2.680										
23	3.730										
24	5.180										
25	7.200										
26	10.000										

OBSERVACIONES

a 300 m S. del 27

+2 m. sobre el cauce del río

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

1 m	10 m	50 m	100 m
21,78			
42,92			
83,51			
162,1			
313,4			
606,2			
1.169	109,2		
2.256	217,8		
4.370	429,2		
8.429	836,1		
16.290	1.621		
31.420	3.134		
60.700	6.062	1.175	
	11.690	2.301	
	22.560	4.474	
	43.700	8.702	4.292
	84.290	16.820	8.351
	162.900	32.530	16.210
		62.790	31.340
		121.400	60.620
		234.000	116.900
		451.200	225.600
			437.000
			842.880
			1.628.520
			3.141.510

OBSERVACIONES:

FECHA: 2-06-92

a. a. edaro

Proyecto: Río Palancia

Zona: Estivella

Observador: Juan M. Quartínez

Situación:

COORDENADAS

X

Y

Z

mV: Edaro 01

mA: GEO N.º 480

Rumbo AB: N - 20° - E

S.E.V. 29

Perfil:

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)
1	2,68	1	12	1V	940	1706					
2	3,73		19	"	520	1175					
3	5,18		40	"	240	501					
4	7,2		37	100mV	35	210					
5	10		25	10mV	7	88					
6	13,9		36	"	4.3	72					
7	19,3		28	"	2.05	86	10	28	100mV	23	90
8	26,8	10	34	30mV	18	115					
9	37,3		31	"	10	138					
10	51,8		37	10mV	6.3	142					
11	72		37	"	3.85	180					
12	100		98	"	6.4	205					
13	139		49.5	"	2.05	251					
14	193		42	3mV	0.95	265					
15	268										
16	373										
17	518										
18	720										
19	1.000										
20	1.390										
21	1.930										
22	2.680										
23	3.730										
24	5.180										
25	7.200										
26	10.000										

OBSERVACIONES

+ 1.50 m. sobre el nivel del cauce.

A 200 m. S. del 28

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

1 m	10 m	50 m	100 m
21,78			
42,92			
83,51			
162,1			
313,4			
606,2			
1.169	109,2		
2.256	217,8		
4.370	429,2		
8.429	836,1		
16.290	1.621		
31.420	3.134		
60.700	6.062	1.175	
	11.690	2.301	
	22.560	4.474	
	43.700	8.702	4.292
	84.290	16.820	8.351
	162.900	32.530	16.210
		62.790	31.340
		121.400	60.620
		234.000	116.900
		451.200	225.600
			437.000
			842.880
			1.628.520
			3.141.510

OBSERVACIONES:

FECHA: 2-06-92

a. a. odero

Proyecto: Río Salamanca

Zona: Estivella – Salamanca

Observador: Juan M. Martínez.

Situación:

COORDENADAS

X

Y

Z

mV: Aclaro -01

mA: GEO Nº 680

S.E.V. 30

Rumbo AB N-20°-E

Perfil:

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES
1	2,68	1	14	300mV	165	257						+ 0.50 m. sobre el nivel del cauce
2	3,73		17	100mV	85	215						
3	5,18		21	"	44	175						a 200 m N. del 31
4	7,2		22	"	20.5	151						
5	10		24	30mV	10	131						
6	13,9		31	10mV	6.2	121						
7	19,3		22	4	2.6	138	10	22	100mV	26.5	132	
8	26,8		38	"	2.82	168		38	"	28	160	
9	37,3	10	41	30mV	18	188						
10	51,8		37	10mV	9	203						
11	72		20	"	3.0	243						
12	100		95	"	9.0	297						
13	139		55	"	2.85	314						
14	193		52.5	30mV	1.2	267						
15	268		105	"	1.02	220						
16	373											
17	518											
18	720											
19	1.000											
20	1.390											
21	1.930											
22	2.680											
23	3.730											
24	5.180											
25	7.200											
26	10.000											

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

1 m	10 m	50 m	100 m
21,78			
42,92			
83,51			
162,1			
313,4			
606,2			
1.169	109,2		
2.256	217,8		
4.370	429,2		
8.429	836,1		
16.290	1.621		
31.420	3.134		
60.700	6.062	1.175	
	11.690	2.301	
	22.560	4.474	
	43.700	8.702	4.292
	84.290	16.820	8.351
	162.900	32.530	16.210
		62.790	31.340
		121.400	60.620
		234.000	116.900
		451.200	225.600
			437.000
			842.880
			1.628.520
			3.141.510

OBSERVACIONES:

FECHA: 2-06-92

e. a. adaro

Proyecto: Rio Palancia

Zona: Estivella - Valencia

Observador: Juan de Martinez

Situación:

COORDENADAS

X

Y

Z

mV: Adaro - 01

mA: GEO Nº 480

S.E.V. 31

Rumbo AB N - 20° - E

Perfil:

CONSTANTES PARA DISPOSITIVO SCHLUMBERGER SIMETRICO MN

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES	1 m	10 m	50 m	100 m
1	2,68	1	12	1V	480	871						a 200 m. S del 30	21,78			
2	3,73		25	"	305	569							42,92			
3	5,18		27	300mV	115	356							83,51			
4	7,2		31	100mV	48	251							162,1			
5	10		35	"	27	242							313,4			
6	13,9		31	30mV	14.5	284							606,2			
7	19,3		51	"	15.5	355							1.169	109,2		
8	26,8		31	10mV	5.8	422	10	30	100mV	54	392		2.256	217,8		
9	37,3		33	"	4.38	580		33	"	37	481		4.370	429,2		
10	51,8	10	21	30mV	15	596							8.429	835,1		
11	72		42	"	18.5	714							16.290	1.621		
12	100		57	"	13.1	720							31.420	3.134		
13	139		63	10mV	7.1	683							60.700	6.062	1.175	
14	193		77	"	3.45	524								11.690	2.301	
15	268		116	"	2.5	486								22.560	4.474	
16	373													43.700	8.702	4.292
17	518													84.290	16.820	8.351
18	720													162.900	32.530	16.210
19	1.000														62.790	31.340
20	1.390														121.400	60.620
21	1.930														234.000	116.900
22	2.680														451.200	225.600
23	3.730															437.000
24	5.180															842.880
25	7.200															1.628.520
26	10.000															3.141.510

OBSERVACIONES:

FECHA: 2-06-92

c. a. odaro

Proyecto: Río Palancia

Zona: Estivella - Palancia

Observador: Juan Ca. Cuartines

Situación:

COORDENADAS	mV: Sclaro 01	Rumbo AB
X	mA:	N-50°-E
Y	S.E.V. 32	Perfil:
Z		

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES
1	2,68	1	7.5	1V	390	1133						+ 0.50 cm. sobre el nivel del
2	3,73		17	"	320	808						
3	5,18		20	300mV	107	447						
4	7,2		25	100mV	44.5	289						
5	10		32	"	20	196						
6	13,9		26	10mV	7.0	163						
7	19,3		28	"	3.3	138	10	28	100mV	35	137	
8	26,8	10	24	30mV	14.5	132						
9	37,3		23	10mV	7.5	140						
10	51,8		40	"	8.3	173						
11	72		41.5	"	6.0	234						
12	100		81	"	7.4	286						
13	139		64	"	2.9	275						
14	193		55	3mV	1.55	287						
15	268		65	"	1.0	347						
16	373											
17	518											
18	720											
19	1.000											
20	1.390											
21	1.930											
22	2.680											
23	3.730											
24	5.180											
25	7.200											
26	10.000											

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

1 m	10 m	50 m	100 m
21,78			
42,92			
83,51			
162,1			
313,4			
606,2			
1.169	109,2		
2.256	217,8		
4.370	429,2		
8.429	836,1		
16.290	1.621		
31.420	3.134		
60.700	6.062	1.175	
	11.690	2.301	
	22.560	4.474	
	43.700	8.702	4.292
	84.290	16.820	8.351
	162.900	32.530	16.210
		62.790	31.340
		121.400	60.620
		234.000	116.900
		451.200	225.600
			437.000
			842.880
			1.628.520
			3.141.510

OBSERVACIONES:

FECHA: 2-06-92

e. n. adaro

Proyecto: Rio Palancia

Zona: Estivella - Valencia

Observador: Juan M. Martínez Peña

Situación:

COORDENADAS

X

Y

Z

mV: Adaro - 01
mA: GEO Nº 480

S.E.V. 33

Rumbo AB N - 50° - E

Perfil:

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES	CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN 1 m	10 m	50 m	100 m
1	2,68	1	23	300 mV	222	210						+ 0.60 m sobre el cauce	21,78			
2	3,73		33	"	134	174							42,92			
3	5,18		43	100 mV	73	142						a 200 m S. del 32	83,51			
4	7,2		53	"	40	122							162,1			
5	10		52	"	18.5	111							313,4			
6	13,9		51	10 mV	8	95							606,2			
7	19,3		40	"	3.1	91	10	40	100 mV	35	96		1.169	109,2		
8	26,8		106	"	3.95	84		106	"	43.5	89		2.256	217,8		
9	37,3	10	51	30 mV	13	109							4.370	429,2		
10	51,8		42	10 mV	7.1	141							8.429	836,1		
11	72		57	"	5.65	161							16.290	1.621		
12	100		79	"	4.1	163							31.420	3.134		
13	139		94	"	2.95	190							60.700	6.062	1.175	
14	193		80	"	1.85	270								11.690	2.301	
15	268		120	"	1.94	365								22.560	4.474	
16	373													43.700	8.702	4.292
17	518													84.290	16.820	8.351
18	720													162.900	32.530	16.210
19	1.000														62.790	31.340
20	1.390														121.400	60.620
21	1.930														234.000	116.900
22	2.680														451.200	225.600
23	3.730															437.000
24	5.180															842.880
25	7.200															1.628.520
26	10.000															3.141.510

FECHA: 2-06-92

OBSERVACIONES:

e. a. adaro

Proyecto: Rio Palancia

Zona: Estivella - Valencia

Observador: Juan A. Martinez

Situación:

COORDENADAS

X

Y

Z

mV: Adaro - 01
mA: GEO Nº 480

Rumbo AB N - 72º - E

S.E.V. 34

Perfil:

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES	MN 1 m	MN 10 m	MN 50 m	MN 100 m
1	2,68	1	20.5	1V	460	489						+ 0.60 Sobre el nivel del cauce	21,78			
2	3,73		19	300mV	140	316							42,92			
3	5,18		20	100mV	50	209						A 200 m. S. del 33	83,51			
4	7,2		50	"	39	126							162,1			
5	10		58	"	24	130							313,4			
6	13,9		67	"	16.5	149							606,2			
7	19,3		49	10mV	8.2	196	10	49	100mV	60	134		1.169	109,2		
8	26,8		71	"	7.6	241		70	"	59	184		2.256	217,8		
9	37,3		46	"	3.2	304		46	"	24	224		4.370	429,2		
10	51,8	10	44	30mV	15	285							8.429	835,1		
11	72		71	"	14	320							16.290	1.621		
12	100		87	"	11.1	400							31.420	3.134		
13	139		102	10mV	7.05	419							60.700	6.062	1.175	
14	193		115	"	4.35	442								11.690	2.301	
15	268													22.560	4.474	
16	373													43.700	8.702	4.292
17	518													84.290	16.820	8.351
18	720													162.900	32.530	16.210
19	1.000														62.790	31.340
20	1.390														121.400	60.620
21	1.930														234.000	116.900
22	2.680														451.200	225.600
23	3.730															437.000
24	5.180															842.880
25	7.200															1.628.520
26	10,000															3.141.510

OBSERVACIONES:

FECHA: 2-06-92

a. a. adaro

Proyecto: Río Palanuca

Zona: Estrella - Palanuca

Observador: Juan De Dios Martínez Peña

Situación:

COORDENADAS

X

Y

Z

mV: Adaro 01

mA: GEO N° 480

S.E.V. 35

Rumbo AB N - 52° - E

Perfil:

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES	CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN 1 m	10 m	50 m	100 m
1	2,68	1	32	1V	565	385						Sobre el nivel del cauce	21,78			
2	3,73		39	"	490	539							42,92			
3	5,18		35	"	340	811						a 270 m. del 34	83,51			
4	7,2		50	"	330	1069							182,1			
5	10		43	300mV	172	1254						Sobre afloramientos de	313,4			
6	13,9		87	"	146	1017						Caliza?	606,2			
7	19,3		130	100mV	68	611							1.169	109,2		
8	26,8		126	"	29	519							2.256	217,8		
9	37,3		67	10mV	6	391	10	66	100mV	53	345		4.370	429,2		
10	51,8		70	"	2.57	340		70	"	22.5	368		8.429	835,1		
11	72	10	47	"	5.5	190							16.290	1.621		
12	100		107	"	4.7	138							31.420	3.134		
13	139		112	"	3.2	173							60.700	6.062	1.175	
14	193		152	"	2.4	185								11.690	2.301	
15	268		160	"	1.42	200								22.560	4.474	
16	373													43.700	8.702	4.292
17	518													84.290	16.820	8.351
18	720													162.900	32.530	16.210
19	1.000														62.790	31.340
20	1.390														121.400	60.620
21	1.930														234.000	116.900
22	2.680														451.200	225.600
23	3.730															437.000
24	5.180															842.880
25	7.200															1.628.520
26	10.000															3.141.510

OBSERVACIONES:

FECHA: 2 - 06 - 92

a. a. edaro

Proyecto: Rio Palancia

Zona: Estivella - Valencia

Observador: Juan M. Martínez Peña

Situación:

COORDENADAS

X

Y

Z

mV: Adaro 01

mA: GEO N° 480

S.E.V. 36

Rumbo AB: N - 52° - E

Perfil:

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES
1	2,68	1	15	30mV	215	312						Sobre el nivel del cauce
2	3,73		20	"	100	315						
3	5,18		36	100mV	83	193						Afloramientos de caliza
4	7,2		25	"	35	227						
5	10		28	"	26.5	297						
6	13,9		31	"	20	391						
7	19,3		23	30mV	10	508						
8	26,8		46	"	10.5	515	10	47	300mV	119	551	
9	37,3		80	"	9.15	500		80	"	100	537	
10	51,8	10	51	100mV	30.5	499						
11	72		40	10mV	8.6	349						
12	100		50	"	2.3	144						
13	139		152	"	2 6	104						
14	193		94	3mV	0.82	102						
15	268											
16	373											
17	518											
18	720											
19	1.000											
20	1.390											
21	1.930											
22	2.680											
23	3.730											
24	5.180											
25	7.200											
26	10.000											

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

1 m	10 m	50 m	100 m
21,78			
42,92			
83,51			
162,1			
313,4			
606,2			
1.169	109,2		
2.256	217,8		
4.370	429,2		
8.429	836,1		
16.290	1.621		
31.420	3.134		
60.700	6.062	1.175	
	11.690	2.301	
	22.560	4.474	
	43.700	8.702	4.292
	84.290	16.820	8.351
	162.900	32.530	16.210
		62.790	31.340
		121.400	60.620
		234.000	116.900
		451.200	225.600
			437.000
			842.880
			1.628.520
			3.141.510

OBSERVACIONES:

FECHA: 1-06-92

a. a. edaro

Proyecto: Río Salancia

Zona: Estivella - Valencia

Observador: Juan A. Martínez

Situación:

COORDENADAS

X

Y

Z

mV: Sdara 01

mA: GEO 480

S.E.V. 37

Rumbo AB N- 50°- E

Perfil:

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

Estación	AB/2	M N	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES	1 m	10 m	50 m	100 m
1	2,68	1	12	300mV	167	303							21,78			
2	3,73		20	"	107	230							42,92			
3	5,18		30	100mV	64	178							83,51			
4	7,2		26	"	24	150							162,1			
5	10		15	30mV	5.9	123							313,4			
6	13,9		18	"	2.8	94							606,2			
7	19,3		29	"	1.9	77	10	20	30mV	23	84		1.169	109,2		
8	26,8		40	"	1.17	67		40	"	13.4	73		2.256	217,8		
9	37,3	10	28	"	4.4	67							4.370	429,2		
10	51,8		48	"	3.8	66							8.429	835,1		
11	72		42	3mV	1.9	73							16.290	1.621		
12	100		86	"	2.55	93							31.420	3.134		
13	139		63	"	1.05	101							60.700	6.062	1.175	
14	193		56	"	0.50	104								11.690	2.301	
15	268													22.560	4.474	
16	373													43.700	8.702	4.292
17	518													84.290	16.820	8.351
18	720													162.900	32.530	16.210
19	1.000														62.790	31.340
20	1.390														121.400	60.620
21	1.930														234.000	116.900
22	2.680														451.200	225.600
23	3.730															437.000
24	5.180															842.880
25	7.200															1.628.520
26	10.000															3.141.510

OBSERVACIONES:

FECHA: 1-06-92

a. a. edaro

Proyecto: Rio Palancia

Zona: Estivella - Valencia

Observador: Juan de Dios Martínez

Situación:

COORDENADAS

X

Y

Z

mV: Adaro - 01

mA: GCO N° 480

Rumbo AB: N - 50° - E

S.E.V. 38

Perfil:

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES
1	2,68	1	16	1V	605	824						Sobre el nivel del cauce
2	3,73		21	"	350	715						
3	5,18		28	300mV	172	513						
4	7,2		19	100mV	44	375						
5	10		19	30mV	16.2	267						
6	13,9		29	"	9.2	192						
7	19,3		27.5	10mV	3.7	157	10	27	10mV	37	150	
8	26,8		32	"	1.8	127		31.5	30mV	16.5	114	
9	37,3	10	29	"	5.95	88						
10	51,8		35	"	3.2	76						
11	72		48	"	2.2	74						
12	100		67.5	3mV	1.6	74						
13	139		50	"	0.65	79						
14	193		68	"	0.61	105						
15	268		74	"	0.42	128						
16	373											
17	518											
18	720											
19	1.000											
20	1.390											
21	1.930											
22	2.680											
23	3.730											
24	5.180											
25	7.200											
26	10.000											

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

1 m	10 m	50 m	100 m
21,78			
42,92			
83,51			
162,1			
313,4			
606,2			
1.169	109,2		
2.256	217,8		
4.370	429,2		
8.429	836,1		
16.290	1.621		
31.420	3.134		
60.700	6.062	1.175	
	11.690	2.301	
	22.560	4.474	
	43.700	8.702	4.292
	84.290	16.820	8.351
	162.900	32.530	16.210
		62.790	31.340
		121.400	60.620
		234.000	116.900
		451.200	225.600
			437.000
			842.880
			1.628.520
			3.141.510

OBSERVACIONES:

FECHA: 1-06-92

a. a. adaro

Proyecto: Rio Palancia

Zona: Estivella - Valencia

Observador: Juan Ag. Martinez

Situación:

COORDENADAS	mV: Adaro - 01	Rumbo AB
X	mA: GEO N° 480	N - 50° - E
Y	S.E.V. 39	Perfil:
Z		

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ(Ω m)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ω m)	OBSERVACIONES	CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN 1 m	10 m	50 m	100 m
1	2,68	1	19	1V	425	487						Sobre el nivel del rauce	21,78			
2	3,73		16	100mV	85	228							42,92			
3	5,18		30	"	52	145							83,51			
4	7,2		17	30mV	12.5	119							162,1			
5	10		22	10mV	5.8	83							313,4			
6	13,9		30	"	2.8	57							606,2			
7	19,3		31.5	3mV	1.3	48	10	32	30mV	12.5	43		1.169	109,2		
8	26,8		53	"	1.12	48		53	"	10.5	43		2.256	217,8		
9	37,3	10	26	10mV	3.0	50							4.370	429,2		
10	51,8		52	"	3.4	55							8.429	836,1		
11	72		50	"	1.9	62							16.290	1.621		
12	100		67	3mV	1.5	70							31.420	3.134		
13	139		53	"	0.70	80							60.700	6.062	1.175	
14	193		80	"	0.595	87								11.690	2.301	
15	268													22.560	4.474	
16	373													43.700	8.702	4.292
17	518													84.290	16.820	8.351
18	720													162.900	32.530	16.210
19	1.000														62.790	31.340
20	1.390														121.400	60.620
21	1.930														234.000	116.900
22	2.680														451.200	225.600
23	3.730															437.000
24	5.180															842.880
25	7.200															1.628.520
26	10.000															3.141.510

OBSERVACIONES:

FECHA: 1-06-92

a. a. edaro

Proyecto: Río Palancia

Zona: Estivella - Valencia

Observador: Juan Ca. Cuartines

Situación:

COORDENADAS

X

Y

Z

mV: Adaro - 01

mA: GEO 480

Rumbo AB N - 16° E

S.E.V. 40

Perfil:

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES	1 m	10 m	50 m	100 m
1	2,68	1	15	100mV	80	116						Sobre el nivel del cauce	21,78			
2	3,73		14	"	35	107							42,92			
3	5,18		43	"	47	91							83,51			
4	7,2		60	"	34	92							182,1			
5	10		135	"	41	95							313,4			
6	13,9		140	"	23	100							606,2			
7	19,3		40	10mV	3.6	105	10	40.5	10mV	38	103		1.169	109,2		
8	26,8	10	103	100mV	43.5	92							2.256	217,8		
9	37,3		108	"	21.5	85							4.370	429,2		
10	51,8		57	10mV	4.45	65							8.429	836,1		
11	72		71	"	2.75	63							16.290	1.621		
12	100		110	"	2.4	68							31.420	3.134		
13	139		84	3mV	1.1	79							60.700	6.062	1.175	
14	193		62	"	0.5	94								11.690	2.301	
15	268		100	"	0.485	110								22.560	4.474	
16	373													43.700	8.702	4.292
17	518													84.290	16.820	8.361
18	720													162.900	32.530	16.210
19	1.000														62.790	31.340
20	1.390														121.400	60.620
21	1.930														234.000	116.900
22	2.680														451.200	225.600
23	3.730															437.000
24	5.180															842.880
25	7.200															1.628.520
26	10.000															3.141.510

OBSERVACIONES:

FECHA: 1-06-92

s. a. adaro

Proyecto: Rio Palancia

Zona: Estivella - Valencia

Observador: Juan M. Martinez

Situación:

COORDENADAS

X

Y

Z

mV: Adaro - 01
mA: GEO 480

Rumbo AB N - 35° - W

S.E.V. 41

Perfil:

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES	1 m	10 m	50 m	100 m
1	2,68	1	10	1V	475	1035						+ 0.60 m. sobre el cauce.	21,78			
2	3,73		16	"	245	657							42,92			
3	5,18		18	100mV	60	278							83,51			
4	7,2		30	"	36	195							162,1			
5	10		25	30mV	12.5	157							313,4			
6	13,9		18	10mV	3.9	131							606,2			
7	19,3		33	"	3.45	122	10	34	100mV	36	116		1.169	109,2		
8	26,8		19	3mV	0.90	107		19	10mV	8.1	93		2.256	217,8		
9	37,3	10	15	10mV	3.1	89							4.370	429,2		
10	51,8		25	"	2.3	77							8.429	835,1		
11	72		64	"	2.9	73							16.290	1.621		
12	100		68	3mV	1.8	83							31.420	3.134		
13	139		57	"	0.91	97							60.700	6.062	1.175	
14	193		110		1.1	117								11.690	2.301	
15	268													22.560	4.474	
16	373													43.700	8.702	4.292
17	518													84.290	16.820	8.351
18	720													162.900	32.530	16.210
19	1.000														62.790	31.340
20	1.390														121.400	60.620
21	1.930														234.000	116.900
22	2.680														451.200	225.600
23	3.730															437.000
24	5.180															842.880
25	7.200															1.628.520
26	10.000															3.141.510

OBSERVACIONES:

FECHA: 1-06-92

a. a. edaro

Proyecto: Río Palancia

Zona: Estivella - Valencia

Observador: Juan Jr. Cuartinez Peña

Situación:

COORDENADAS

X

Y

Z

mV: Adaro 01

mA: GEO Nº 180

Rumbo AB N - 44° - W

S.E.V. 42

Perfil:

Estación	AB/2	M N	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES	CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN 1 m	10 m	50 m	100 m
1	2,68	1	19	1V	890	1020						+ 0.50 m Sobre el cauce	21,78			
2	3,73		39	"	590	649							42,92			
3	5,18		30	100mV	89	248							83,51			
4	7,2		26	"	24.5	153							162,1			
5	10		29	30mV	12	130							313,4			
6	13,9		19.5	10mV	4	124							606,2			
7	19,3		35	"	3.4	114	10	34	100mV	36	116		1.169	109,2		
8	26,8	10	26	30mV	13	109							2.256	217,8		
9	37,3		34	10mV	7.8	98							4.370	429,2		
10	51,8		43	"	4.8	93							8.429	836,1		
11	72		63	"	3.2	82							16.290	1.621		
12	100		81	"	2.0	77							31.420	3.134		
13	139		48	3mV	0.65	82							60.700	6.062	1.175	
14	193		94	"	0.80	99								11.690	2.301	
15	268		130	"	0.66	115								22.560	4.474	
16	373													43.700	8.702	4.292
17	518													84.290	16.820	8.351
18	720													162.900	32.530	16.210
19	1.000														62.790	31.340
20	1.390														121.400	60.620
21	1.930														234.000	116.900
22	2.680														451.200	225.600
23	3.730															437.000
24	5.180															842.880
25	7.200															1.628.520
26	10.000															3.141.510

OBSERVACIONES:

FECHA: 1 - 06 - 92

a. a. edaro

Proyecto: Río Palancia

Zona: Estivella - Valencia

Observador: Juan Ma Quintines

Situación:

COORDENADAS

X

Y

Z

mV: 1 dato 01

mA: GEO Nº 137

Rumbo AB: Nº - 44° - W

S.E.V. 43

Perfil:

Estación	AB/2	M N	I (mA)	Esc. Volt.	V (mV)	ρ(Ω m)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ω m)	OBSERVACIONES	CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN 1 m	10 m	50 m	100 m
1	2,68	1	22	1V	815	807						+ 1 m sobre el cauce	21,78			
2	3,73		20	"	720	687							42,92			
3	5,18		13	100mV	65	418							83,51			
4	7,2		18	"	31	279							182,1			
5	10		59	"	38	302							313,4			
6	13,9		38	30mV	10	160							606,2			
7	19,3		27	10mV	3.1	134	10	27.5	100mV	36	143		1.169	109,2		
8	26,8		71	"	3.5	111		71	"	39.5	121		2.256	217,8		
9	37,3		39.5	3mV	0.90	100		40	30mV	10	107		4.370	429,2		
10	51,8	10	54	10mV	63	97						54 - 6.3 = 97	8.429	836,1		
11	72		87	"	5.55	103							16.290	1.621		
12	100		220	"	8.0	114							31.420	3.134		
13	139		330	"	6.3	116							60.700	6.062	1.175	
14	193		120	3mV	1.48	144								11.690	2.301	
15	268		230	"	1.76	172								22.560	4.474	
16	373													43.700	8.702	4.292
17	518													84.290	16.820	8.351
18	720													162.900	32.530	16.210
19	1.000														62.790	31.340
20	1.390														121.400	60.620
21	1.930														234.000	116.900
22	2.680														451.200	225.600
23	3.730															437.000
24	5.180															842.880
25	7.200															1.628.520
26	10.000															3.141.510

OBSERVACIONES:

FECHA: 1-06-92

g. a. adaro

Proyecto: Rio Palancia

Zona: Estivella - Valencia

Observador: Juan de Quantines Peña

Situación:

COORDENADAS

X

Y

Z

mV: Aduro 01

mA: 660 328

S.E.V. 44

Rumbo AB: N - 44° - W

Perfil:

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES	1 m	10 m	50 m	100 m
1	2,68	1	27	30mV	207	167						Sobre el nivel del cauce	21,78			
2	3,73		40	"	115	183							42,92			
3	5,18		27	100mV	33	102						A 200 m S del 43	83,51			
4	7,2		27	30mV	17	102							162,1			
5	10		39	"	11	88							313,4			
6	13,9		24	10mV	3.1	78							606,2			
7	19,3		45	"	2.9	75	10	45	10mV	49	120		1.169	109,2		
8	26,8		65	"	1.85	64		65	"	29	97		2.256	217,8		
9	37,3		38	"	0.50	57		36	10mV	7.6	91		4.370	429,2		
10	51,8	10	71	"	7	82							8.429	836,1		
11	72		94	"	5	86							16.290	1.621		
12	100		75	"	2.3	96							31.420	3.134		
13	139		110	"	1.95	107							60.700	6.062	1.175	
14	193		91	3mV	1.0	128								11.690	2.301	
15	268		66	"	0.44	150								22.560	4.474	
16	373													43.700	8.702	4.292
17	518													84.290	16.820	8.351
18	720													162.900	32.530	16.210
19	1.000														62.790	31.340
20	1.390														121.400	60.620
21	1.930														234.000	116.900
22	2.680														451.200	225.600
23	3.730															437.000
24	5.180															842.880
25	7.200															1.628.520
26	10.000															3.141.510

OBSERVACIONES:

FECHA: 1-06-92

o. a. odero

Proyecto: Río Palancia

Zona: Estivella - Valencina

Observador: Juan de Cuartinez

Situación:

COORDENADAS

X

Y

Z

mV: Sdaro 01

mA: GEO. Nº

S.E.V. 45

Rumbo AB: N - 44° - W

Perfil:

CONSTANTES PARA DISPOSITIVO SCHULUMBERGER SIMETRICO MN

Estación	AB/2	MN	I (mA)	Esc. Volt.	V (mV)	ρ(Ωm)	MN	I (mA)	Esc. Volt.	V (mV)	ρ (Ωm)	OBSERVACIONES	1 m	10 m	50 m	100 m
1	2,68	1	62	1V	710	249						+ 0.80 m. sobre el nivel	21,78			
2	3,73		93	"	525	242						del cauce	42,92			
3	5,18		107	"	300	234							83,51			
4	7,2		125	300mV	140	182							162,1			
5	10		135	100mV	70	163						a 300 m. S. del 44	313,4			
6	13,9		75	30 mV	17	137							606,2			
7	19,3		70	10mV	7.2	120	10	70	100mV	74.5	117		1.169	109,2		
8	26,8	10	54	100mV	26	105							2.256	217,8		
9	37,3		53	30mV	10.5	85							4.370	429,2		
10	51,8		100	"	10	84							8.429	835,1		
11	72		66	10mV	3.7	91							16.290	1.621		
12	100		102	"	3.4	104							31.420	3.134		
13	139		128	"	2.4	114							60.700	6.062	1.175	
14	193		108	3mV	1.25	135								11.690	2.301	
15	268		115	"	1.0	196								22.560	4.474	
16	373													43.700	8.702	4.292
17	518													84.290	16.820	8.351
18	720													162.900	32.530	16.210
19	1.000														62.790	31.340
20	1.390														121.400	60.620
21	1.930														234.000	116.900
22	2.680														451.200	225.600
23	3.730															437.000
24	5.180															842.880
25	7.200															1.628.520
26	10.000															3.141.510

OBSERVACIONES:

FECHA: 1-06-92

INTERPRETACION DE LOS S.E.M.

DATA SET: RP1

CLIENT: ITGE
LOCATION: ALGAR
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 26-05-92
SOUNDING: RP1
AZIMUTH: 0.00 Deg NORTH
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 4.326 PERCENT

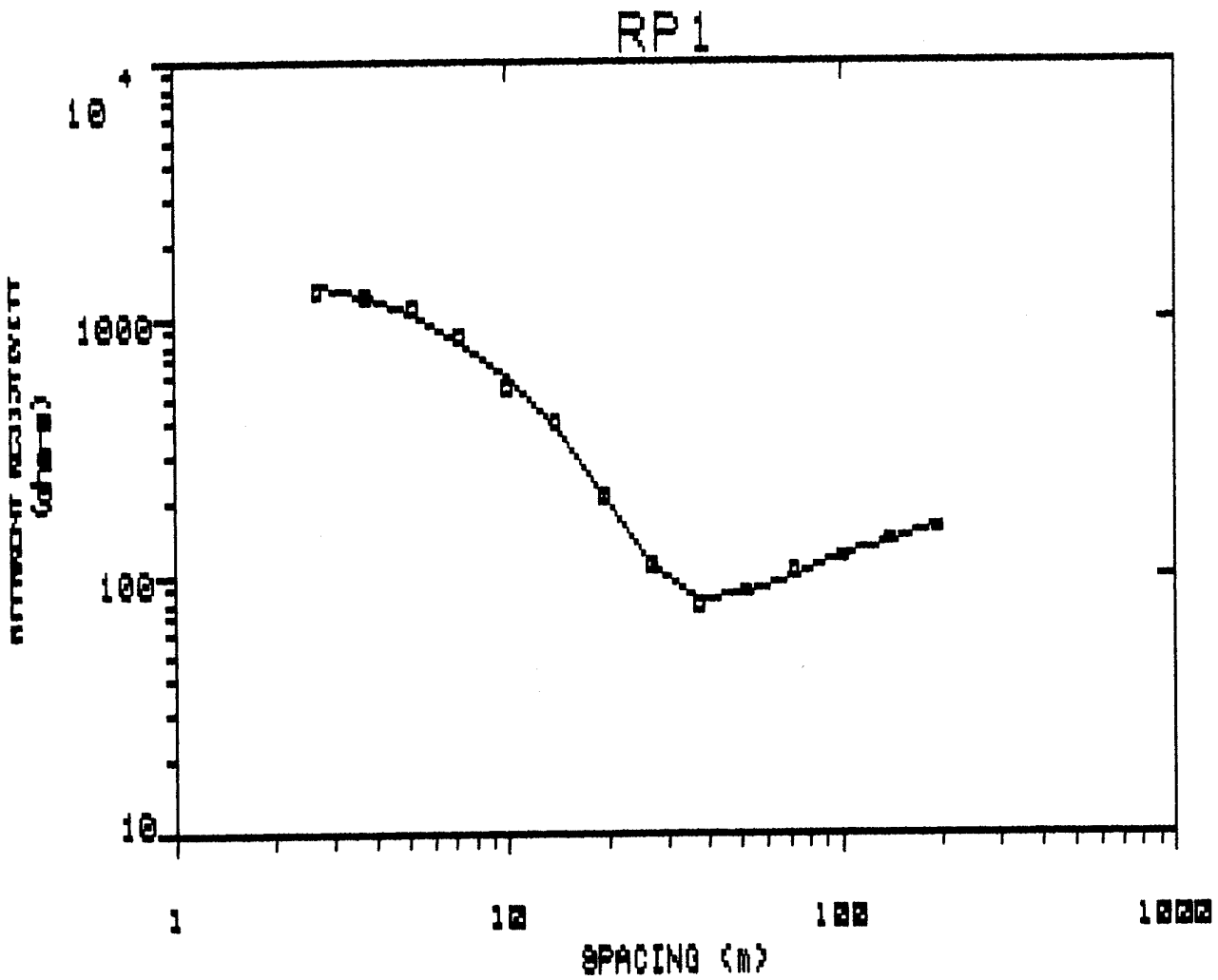
L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	1456.7		2.55	-2.55	0.00176
2	668.0		5.27	-7.83	0.00790
3	49.81		20.39	-28.23	0.409
4	201.2				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	1296.2	1347.4	-3.94
2	3.73	1246.5	1232.5	1.11
3	5.18	1113.7	1056.5	5.13
4	7.20	869.0	837.9	3.57
5	10.00	541.3	608.2	-12.35
6	13.90	408.5	387.5	5.15
7	19.30	209.0	209.9	-0.450
8	26.80	112.0	110.1	1.69
9	37.30	78.00	81.41	-4.38
10	51.80	89.00	87.59	1.58
11	72.00	106.0	103.7	2.16
12	100.0	121.0	122.1	-0.970
13	139.0	141.0	140.6	0.253
14	193.0	157.0	157.3	-0.229

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER
P 1 0.79

P 2	0.02	0.43					
P 3	0.00	-0.04	0.54				
P 4	0.00	0.02	0.11	0.54			
T 1	0.15	0.35	0.00	0.00	0.37		
T 2	-0.11	0.18	0.13	-0.06	0.15	0.68	
T 3	-0.01	0.00	-0.35	-0.20	0.01	0.05	0.31
	P 1	P 2	P 3	P 4	T 1	T 2	T 3


RP 1
10 4
1000
100
10
1
10
100
1000
SPACING (m)

DATA SET: RP2

CLIENT: ITGE
LOCATION: ALGAR
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 26-05-92
SOUNDING: RP2
AZIMUTH: 0.00 Deg NORTH
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 3.989 PERCENT

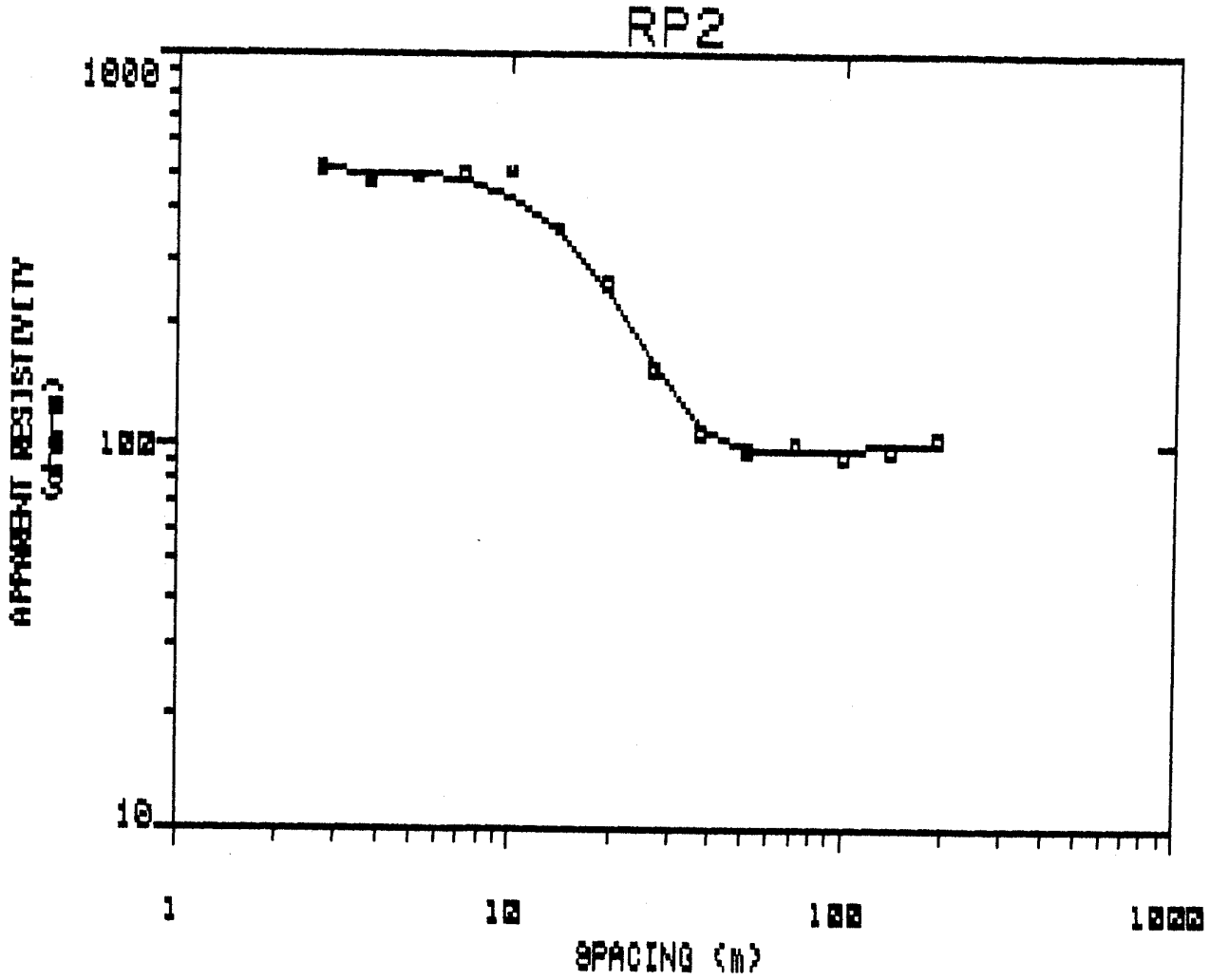
L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	396.3		2.46	-2.46	0.00622
2	1202.5		2.40	-4.86	0.00200
3	93.25				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	507.5	430.1	15.24
2	3.73	468.2	460.2	1.72
3	5.18	485.7	492.0	-1.29
4	7.20	493.3	499.9	-1.33
5	10.00	498.8	456.3	8.52
6	13.90	354.7	358.6	-1.11
7	19.30	255.0	242.9	4.70
8	26.80	155.0	155.7	-0.495
9	37.30	107.0	113.4	-6.03
10	51.80	96.00	100.0	-4.17
11	72.00	100.0	96.13	3.86
12	100.0	92.00	94.63	-2.86
13	139.0	96.00	93.97	2.10
14	193.0	102.0	93.62	8.21

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER
P 1 0.95
P 2 0.00 0.60

```
P 3   0.00   0.00   1.00
T 1  -0.09   0.12   0.00   0.79
T 2   0.03   0.45   0.00   0.20   0.48
         P 1    P 2    P 3    T 1    T 2
```


RP2
1000
100
10
1
10
100
1000
SPACING (m)

DATA SET: RP3

CLIENT: ITGE
LOCATION: ALGAR
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 26-05-92
SOUNDING: RP3
AZIMUTH: 0.00 Deg NORTH
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 6.151 PERCENT

L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	378.4		1.66	-1.66	0.00440
2	834.6		5.80	-7.47	0.00696
3	51.33		18.09	-25.56	0.352
4	70.10		24.23	-49.80	0.345
5	262.0		56.59	-106.4	0.215
6	83.21				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	PA (ohm-m) SYNTHETIC	DIFFERENCE (percent)
1	2.68	546.7	450.1	17.66
2	3.73	507.2	498.9	1.63
3	5.18	514.3	546.9	-6.35
4	7.20	551.7	571.1	-3.52
5	10.00	554.8	545.7	1.62
6	13.90	478.8	454.7	5.04
7	19.30	356.0	315.0	11.49
8	26.80	163.0	181.0	-11.09
9	37.30	97.00	101.6	-4.83
10	51.80	85.00	78.68	7.43
11	72.00	68.00	83.24	-22.42
12	100.0	95.00	96.04	-1.10
13	139.0	109.0	109.6	-0.557
14	193.0	117.0	118.8	-1.56

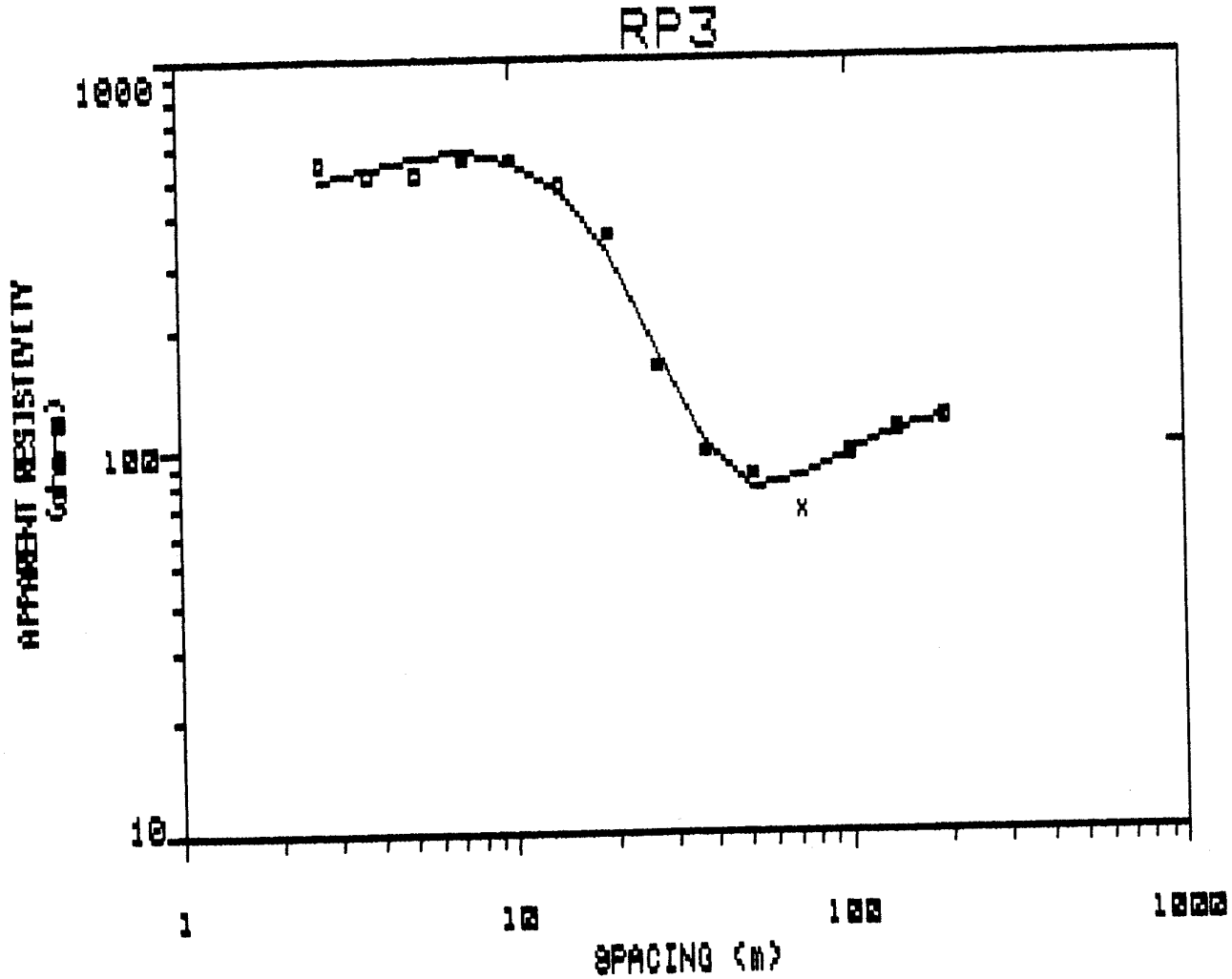
PARAMETER RESOLUTION MATRIX:

"F" INDICATES FIXED PARAMETER

P 1	0.52									
P 2	0.16	0.64								
P 3	-0.01	-0.02	0.38							
P 4	0.01	-0.01	0.22	0.21						
P 5	0.00	0.01	0.06	0.14	0.21					
P 6	0.00	0.01	0.01	0.04	0.10	0.05				
T 1	-0.32	-0.08	0.05	-0.01	-0.01	0.00	0.25			
T 2	-0.12	0.34	0.14	-0.01	-0.03	-0.01	0.20	0.57		
T 3	0.00	0.01	-0.17	-0.17	-0.12	-0.04	0.00	0.01	0.14	
T 4	0.00	0.00	-0.11	-0.14	-0.12	-0.04	0.01	0.02	0.12	0.11
T 5	0.00	0.01	0.02	0.06	0.12	0.06	0.00	-0.02	-0.05	-0.05
	P 1	P 2	P 3	P 4	P 5	P 6	T 1	T 2	T 3	T 4

SECOND PART OF RESOLUTION MATRIX:

T 5	0.07	
	T 5	


RP3
1000
100
10
APPARENT RESISTIVITY
(ohm-m)
1
10
100
1000
SPACING (m)

DATA SET: RP4

CLIENT: ITGE
LOCATION: ALGAR
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 26-05-92
SOUNDING: RP3
AZIMUTH: 0.00 Deg NORTH
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 2.213 PERCENT

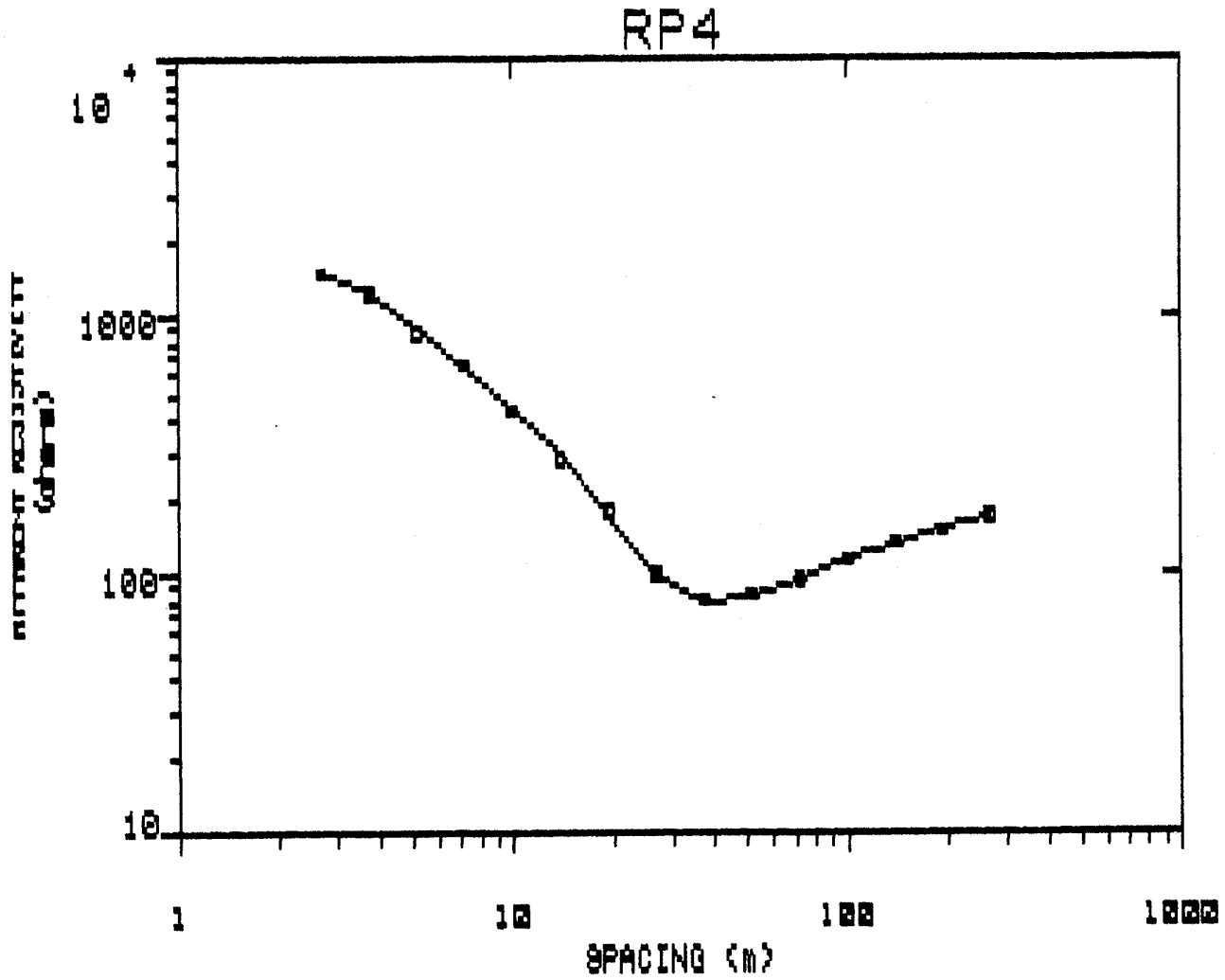
L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	1920.0		1.87	-1.87	9.759E-04
2	508.6		6.07	-7.94	0.0119
3	56.71		26.66	-34.61	0.470
4	202.4				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	1483.5	1517.7	-2.30
2	3.73	1238.4	1219.8	1.49
3	5.18	861.5	896.6	-4.07
4	7.20	657.1	630.6	4.02
5	10.00	437.3	441.3	-0.921
6	13.90	283.5	291.6	-2.86
7	19.30	179.0	172.4	3.64
8	26.80	100.0	102.4	-2.48
9	37.30	81.00	80.19	0.999
10	51.80	84.00	83.86	0.166
11	72.00	97.00	97.58	-0.605
12	100.0	116.0	115.2	0.621
13	139.0	134.0	133.9	0.0192
14	193.0	150.0	151.5	-1.04
15	268.0	168.0	166.8	0.678

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER

P 1	1.00						
P 2	0.00	1.00					
P 3	0.00	0.00	1.00				
P 4	0.00	0.00	0.00	1.00			
T 1	0.00	0.00	0.00	0.00	1.00		
T 2	0.00	0.00	0.00	0.00	0.00	1.00	
T 3	0.00	0.00	0.00	0.00	0.00	0.00	0.99
	P 1	P 2	P 3	P 4	T 1	T 2	T 3


RP4
10 4
1000
100
10
1
10
100
1000
SPACING (m)

DATA SET: RP5

CLIENT: ITGE
LOCATION: ALGAR
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 26-05-92
SOUNDING: RP3
AZIMUTH: 0.00 Deg NORTH
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 5.746 PERCENT

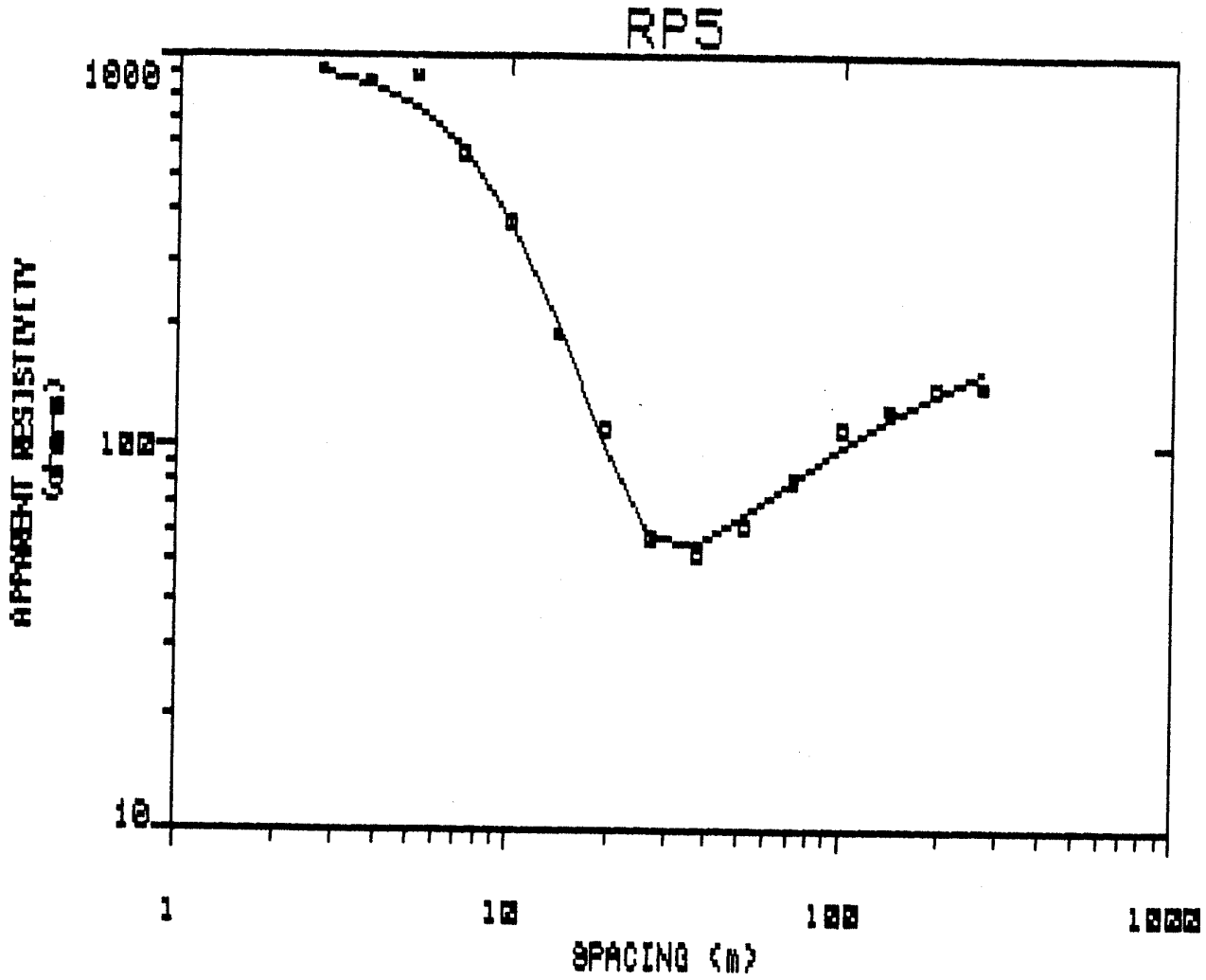
L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	810.0		4.33	-4.33	0.00535
2	192.4		3.25	-7.59	0.0169
3	30.99		17.52	-25.11	0.565
4	193.8				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	921.0	783.8	14.89
2	3.73	865.0	746.9	13.64
3	5.18	892.0	671.9	24.67
4	7.20	561.0	543.9	3.03
5	10.00	375.0	374.4	0.146
6	13.90	192.0	209.3	-9.01
7	19.30	109.0	100.5	7.73
8	26.80	57.00	57.87	-1.53
9	37.30	52.00	54.64	-5.09
10	51.80	62.00	65.57	-5.77
11	72.00	81.00	81.11	-0.137
12	100.0	109.0	98.74	9.41
13	139.0	123.0	117.2	4.70
14	193.0	138.0	135.1	2.04
15	268.0	142.0	151.5	-6.69

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER

P 1	0.64						
P 2	0.01	0.04					
P 3	-0.07	0.02	0.55				
P 4	0.03	0.00	0.07	0.60			
T 1	0.13	0.17	0.07	-0.02	0.84		
T 2	-0.09	0.04	0.05	-0.03	0.19	0.08	
T 3	-0.03	0.00	-0.38	-0.16	0.04	0.03	0.38
	P 1	P 2	P 3	P 4	T 1	T 2	T 3


RPS
1000
100
10
1
10
100
1000
SPACING (m)

DATA SET: RP6

CLIENT: ITGE
LOCATION: ALGAR
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 26-05-92
SOUNDING: RP6
AZIMUTH: 0.00 Deg NORTH
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 2.981 PERCENT

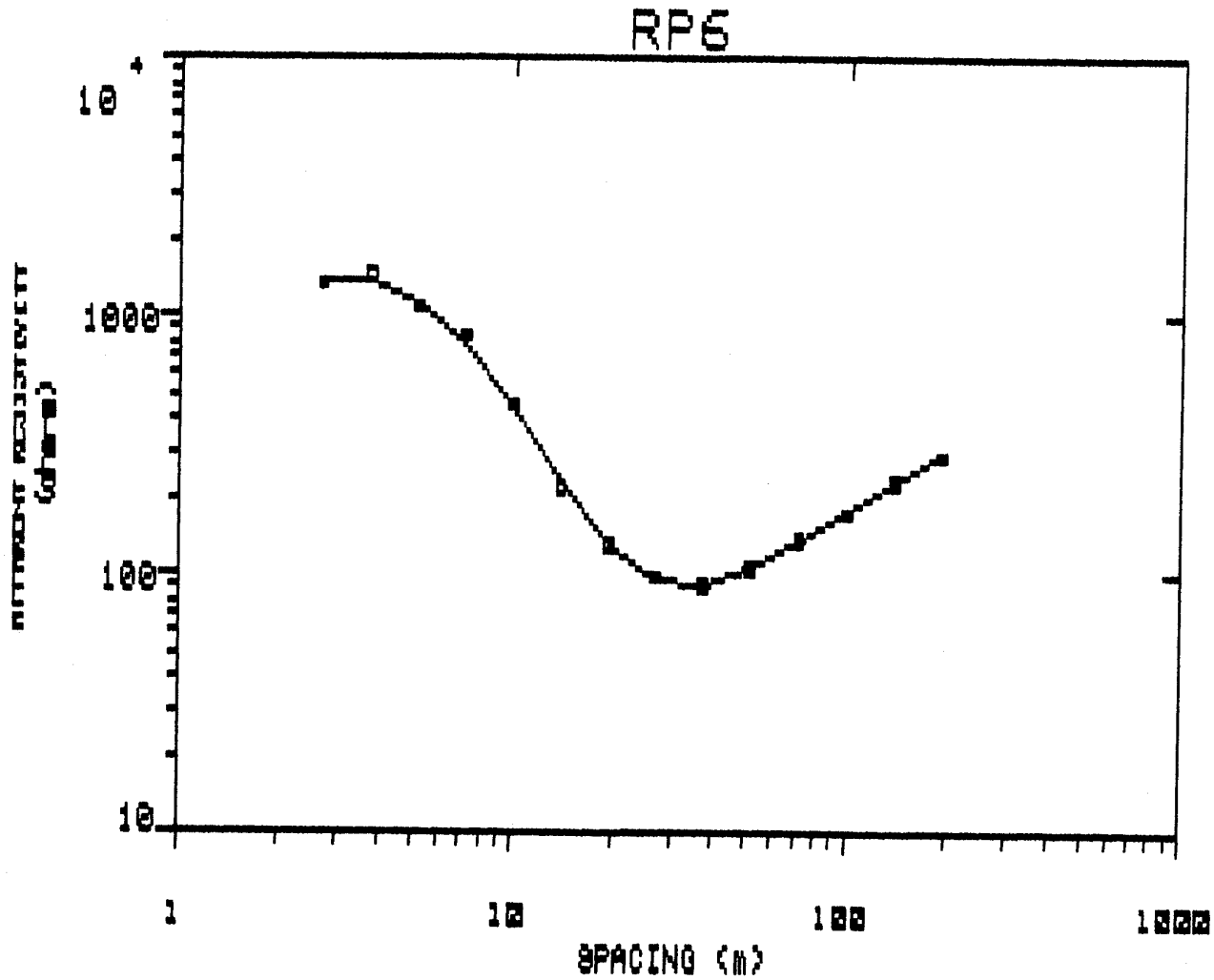
L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	848.4		0.764	-0.764	9.015E-04
2	2961.3		1.46	-2.22	4.936E-04
3	145.8		6.98	-9.21	0.0479
4	65.13		27.86	-37.07	0.427
5	901.2				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	1351.9	1383.7	-2.35
2	3.73	1427.5	1356.7	4.95
3	5.18	1084.7	1149.3	-5.95
4	7.20	838.8	801.7	4.41
5	10.00	454.5	453.0	0.336
6	13.90	219.2	225.9	-3.04
7	19.30	130.0	128.4	1.18
8	26.80	99.00	97.48	1.53
9	37.30	90.00	93.15	-3.50
10	51.80	108.0	106.2	1.65
11	72.00	136.0	134.3	1.19
12	100.0	172.0	175.3	-1.94
13	139.0	232.0	228.1	1.66
14	193.0	291.0	292.1	-0.379

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER

P 1	0.57								
P 2	0.12	0.58							
P 3	0.06	-0.07	0.66						
P 4	-0.01	0.01	-0.04	0.92					
P 5	0.00	0.00	0.01	-0.06	0.63				
T 1	-0.45	-0.06	0.09	-0.01	-0.01	0.41			
T 2	-0.06	0.45	0.11	-0.01	-0.01	0.14	0.49		
T 3	0.02	-0.03	0.28	0.15	0.05	-0.01	-0.01	0.56	
T 4	-0.01	0.01	-0.09	-0.12	-0.15	0.00	0.00	0.23	0.80
	P 1	P 2	P 3	P 4	P 5	T 1	T 2	T 3	T 4


RP6
10 4
1000
100
10
1
10
100
1000
SPACING (m)

DATA SET: RP7

CLIENT: ITGE
LOCATION: ALGAR
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 27-05-92
SOUNDING: RP7
AZIMUTH: 0.00 Deg NORTH
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 5.324 PERCENT

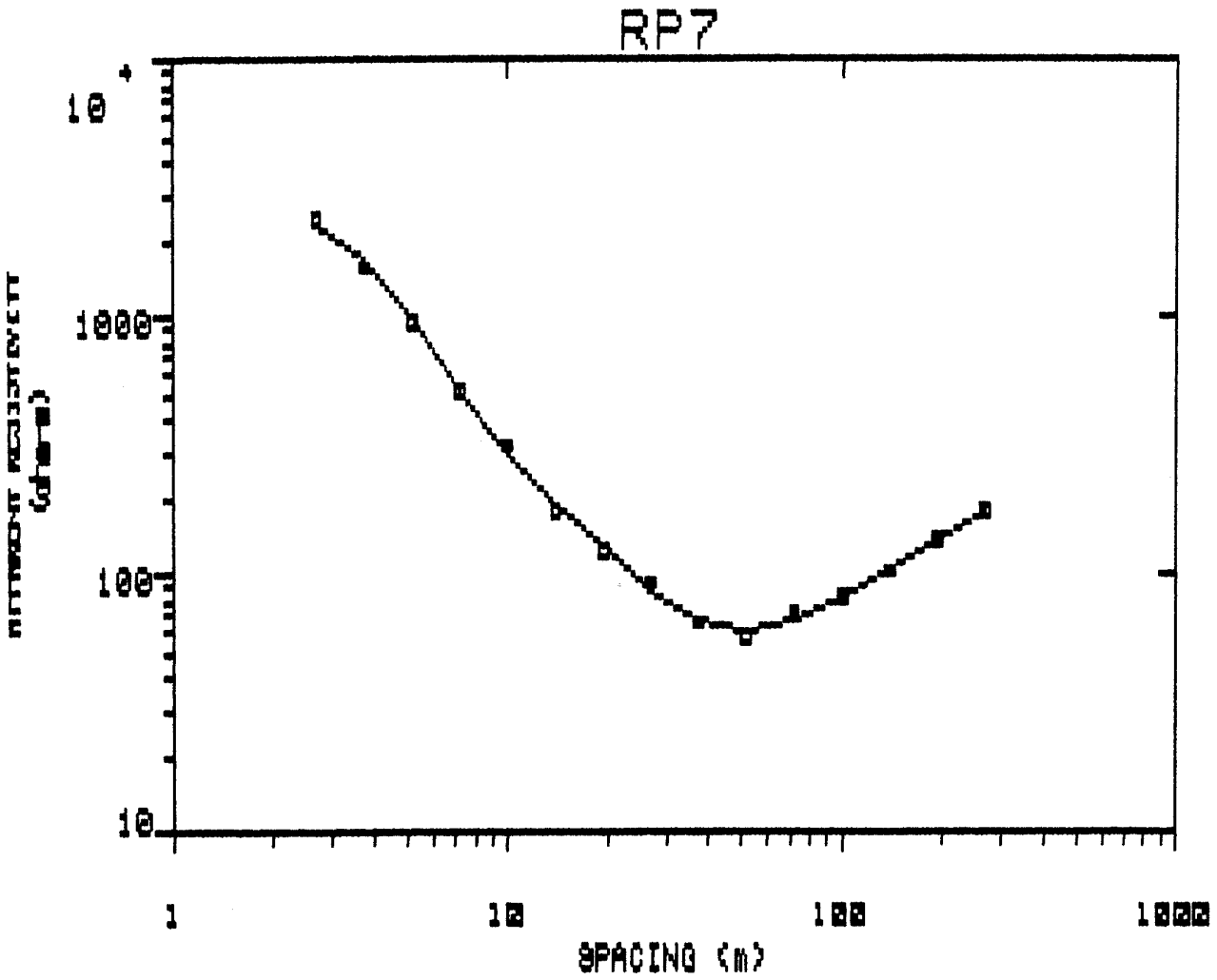
L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	3028.1		2.00	-2.00	6.606E-04
2	252.5		7.47	-9.47	0.0296
3	49.81		54.97	-64.45	1.10
4	594.0				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	PA (ohm-m) SYNTHETIC	DIFFERENCE (percent)
1	2.68	2411.3	2254.1	6.51
2	3.73	1567.7	1656.2	-5.64
3	5.18	975.1	1009.3	-3.50
4	7.20	526.1	529.4	-0.632
5	10.00	320.1	291.4	8.97
6	13.90	179.3	190.8	-6.42
7	19.30	123.0	129.4	-5.23
8	26.80	93.00	86.52	6.96
9	37.30	66.00	65.74	0.391
10	51.80	57.00	61.57	-8.02
11	72.00	72.00	67.36	6.44
12	100.0	82.00	81.91	0.106
13	139.0	103.0	105.5	-2.43
14	193.0	137.0	137.3	-0.219
15	268.0	178.0	176.7	0.726

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER

P 1	1.00						
P 2	0.00	1.00					
P 3	0.00	0.00	1.00				
P 4	0.00	0.00	0.00	0.97			
T 1	0.00	0.00	0.00	0.00	1.00		
T 2	0.00	0.00	0.00	0.00	0.00	1.00	
T 3	0.00	0.00	0.00	-0.01	0.00	0.00	1.00
	P 1	P 2	P 3	P 4	T 1	T 2	T 3


RP7
10
4
1000
100
10
1
10
100
1000
SPACING (m)

DATA SET: RP8

CLIENT: ITGE
LOCATION: ALGAR
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 27-05-92
SOUNDING: RP8
AZIMUTH: 0.00 Deg NORTH
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 2.234 PERCENT

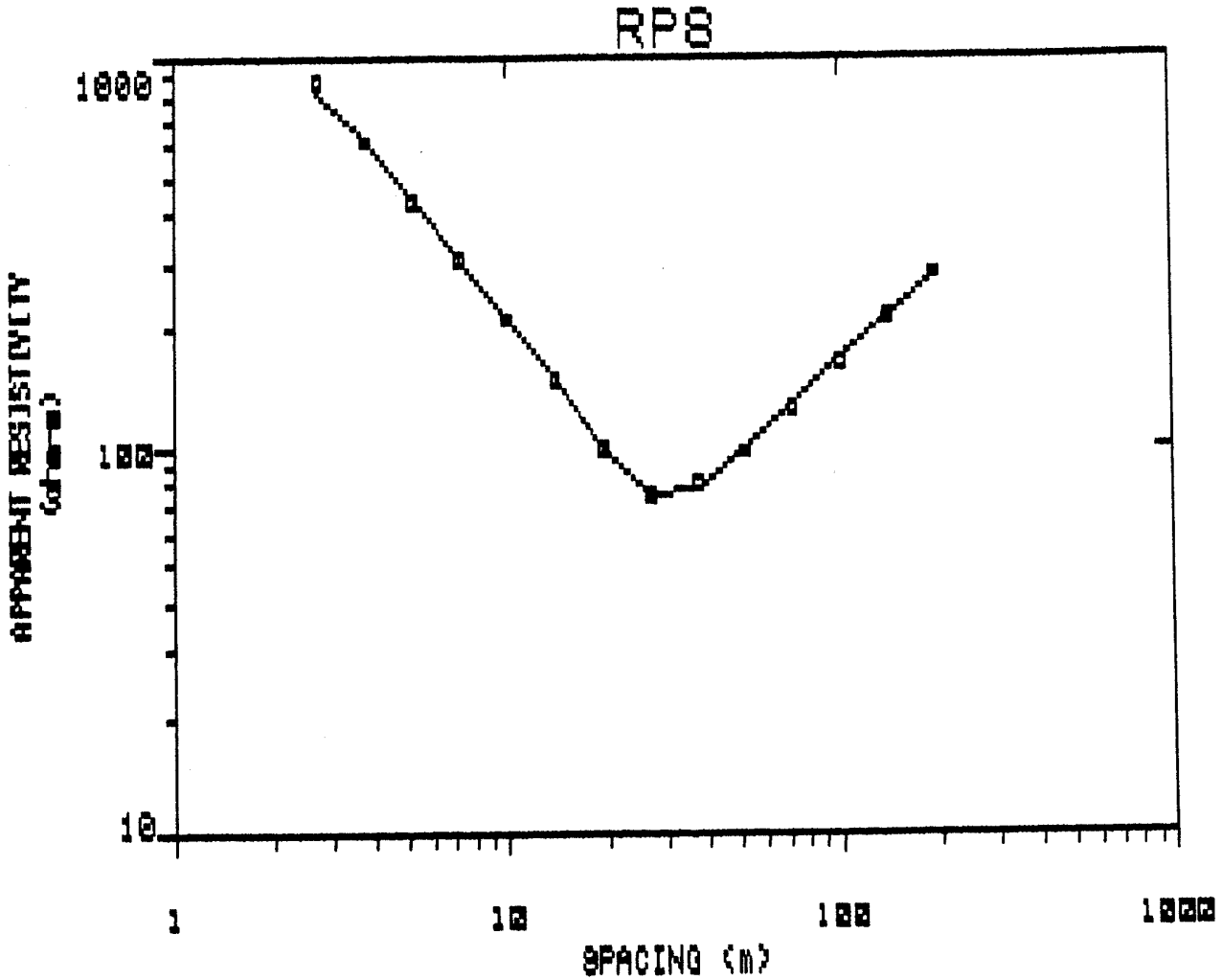
L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	1163.6		1.61	-1.61	0.00138
2	277.2		5.57	-7.18	0.0201
3	45.96		21.02	-28.21	0.457
4	754.1				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	PA (ohm-m) SYNTHETIC	DIFFERENCE (percent)
1	2.68	875.0	827.3	5.44
2	3.73	618.1	625.4	-1.17
3	5.18	434.0	439.3	-1.20
4	7.20	306.8	307.9	-0.359
5	10.00	212.5	220.4	-3.75
6	13.90	148.8	150.9	-1.41
7	19.30	100.0	99.65	0.343
8	26.80	75.00	76.28	-1.71
9	37.30	81.00	78.75	2.77
10	51.80	98.00	98.05	-0.0515
11	72.00	127.0	128.6	-1.27
12	100.0	166.0	168.5	-1.54
13	139.0	216.0	217.9	-0.881
14	193.0	281.0	276.2	1.70

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER
P 1 0.98

P 2	-0.03	0.90					
P 3	-0.01	-0.08	0.76				
P 4	0.00	0.00	-0.07	0.82			
T 1	0.03	0.06	0.04	0.00	0.95		
T 2	0.01	0.07	0.13	0.02	-0.04	0.91	
T 3	-0.02	-0.09	-0.28	-0.12	0.04	0.15	0.67
	P 1	P 2	P 3	P 4	T 1	T 2	T 3


RP8
1000
100
10
APPARENT RESISTIVITY
(ohm-m)
1
10
100
1000
SPACING (m)

DATA SET: RP9

CLIENT: ITGE
LOCATION: ALGAR
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 27-05-92
SOUNDING: RP9
AZIMUTH: 0.00 Deg NORTH
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 1.891 PERCENT

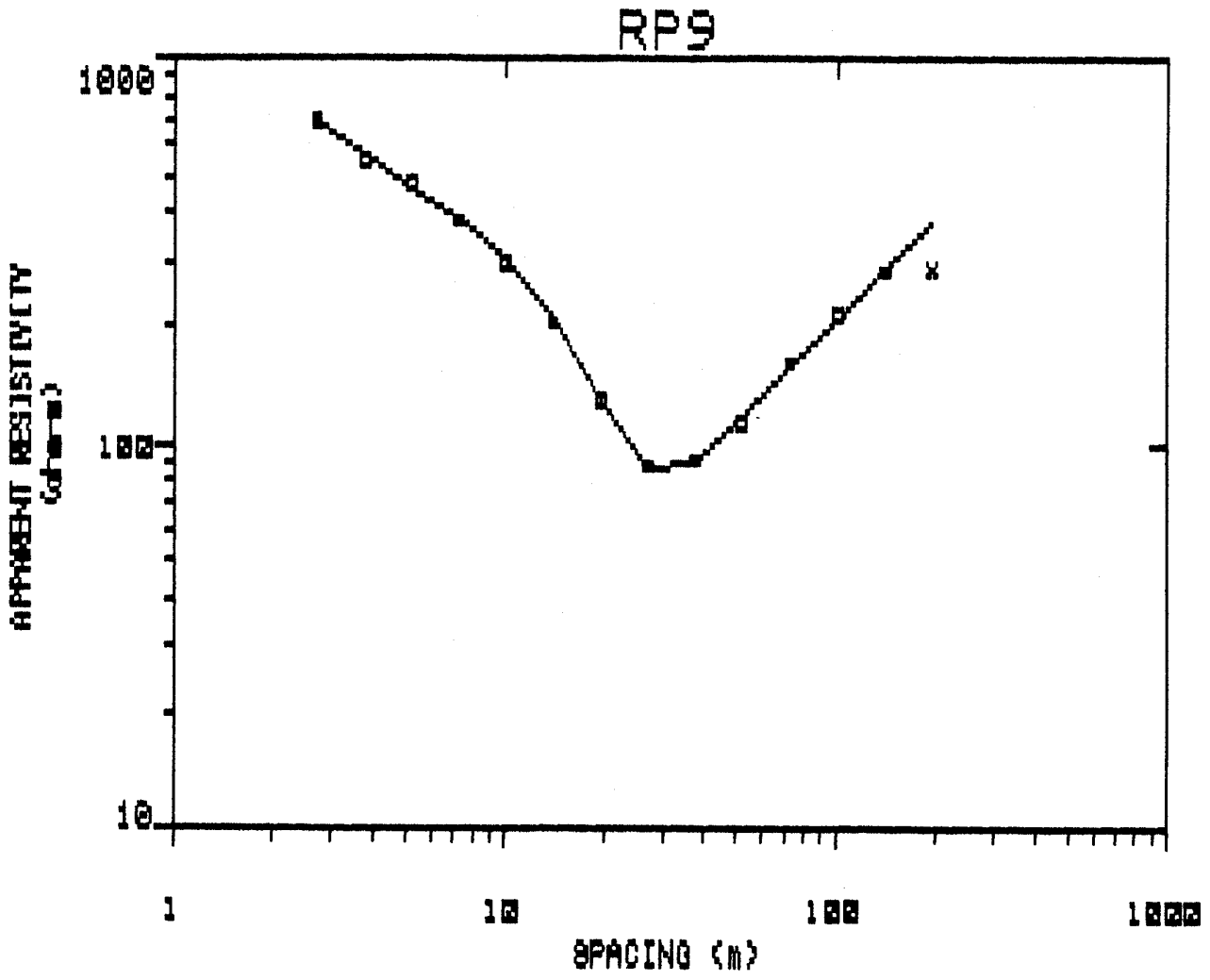
L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	1275.2		0.947	-0.947	7.430E-04
2	436.5		5.94	-6.89	0.0136
3	44.42		18.24	-25.13	0.410
4	2065.1				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	697.3	688.2	1.31
2	3.73	541.2	547.3	-1.13
3	5.18	473.0	456.6	3.46
4	7.20	383.8	385.1	-0.329
5	10.00	298.1	303.0	-1.64
6	13.90	205.7	207.8	-1.02
7	19.30	130.0	127.7	1.69
8	26.80	88.00	88.97	-1.11
9	37.30	91.00	90.50	0.543
10	51.80	113.0	116.5	-3.12
11	72.00	162.0	157.7	2.65
12	100.0	217.0	213.2	1.74
13	139.0	282.0	286.1	-1.45
14	193.0	283.0	379.4	-34.06

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER
P 1 0.97

P 2	0.00	1.00					
P 3	-0.01	0.00	0.99				
P 4	-0.01	0.00	-0.01	0.95			
T 1	0.02	0.00	0.00	0.00	0.99		
T 2	0.00	0.00	0.00	0.00	0.00	1.00	
T 3	-0.01	0.00	-0.01	-0.02	0.01	0.00	0.98
	P 1	P 2	P 3	P 4	T 1	T 2	T 3


RP9
1000
100
10
APPARENT RESISTIVITY
(ohm-m)
1
10
100
1000
SPACING (m)

DATA SET: RP10

CLIENT: ITGE
LOCATION: ALGAR
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 27-05-92
SOUNDING: RP10
AZIMUTH: 0.00 Deg NORTH
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 2.710 PERCENT

L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	963.3		2.01	-2.01	0.00209
2	263.0		6.12	-8.13	0.0232
3	82.02		8.44	-16.58	0.102
4	292.8		26.02	-42.61	0.0888
5	281.6		53.50	-96.12	0.189
6	46.09				

ALL PARAMETERS ARE FREE

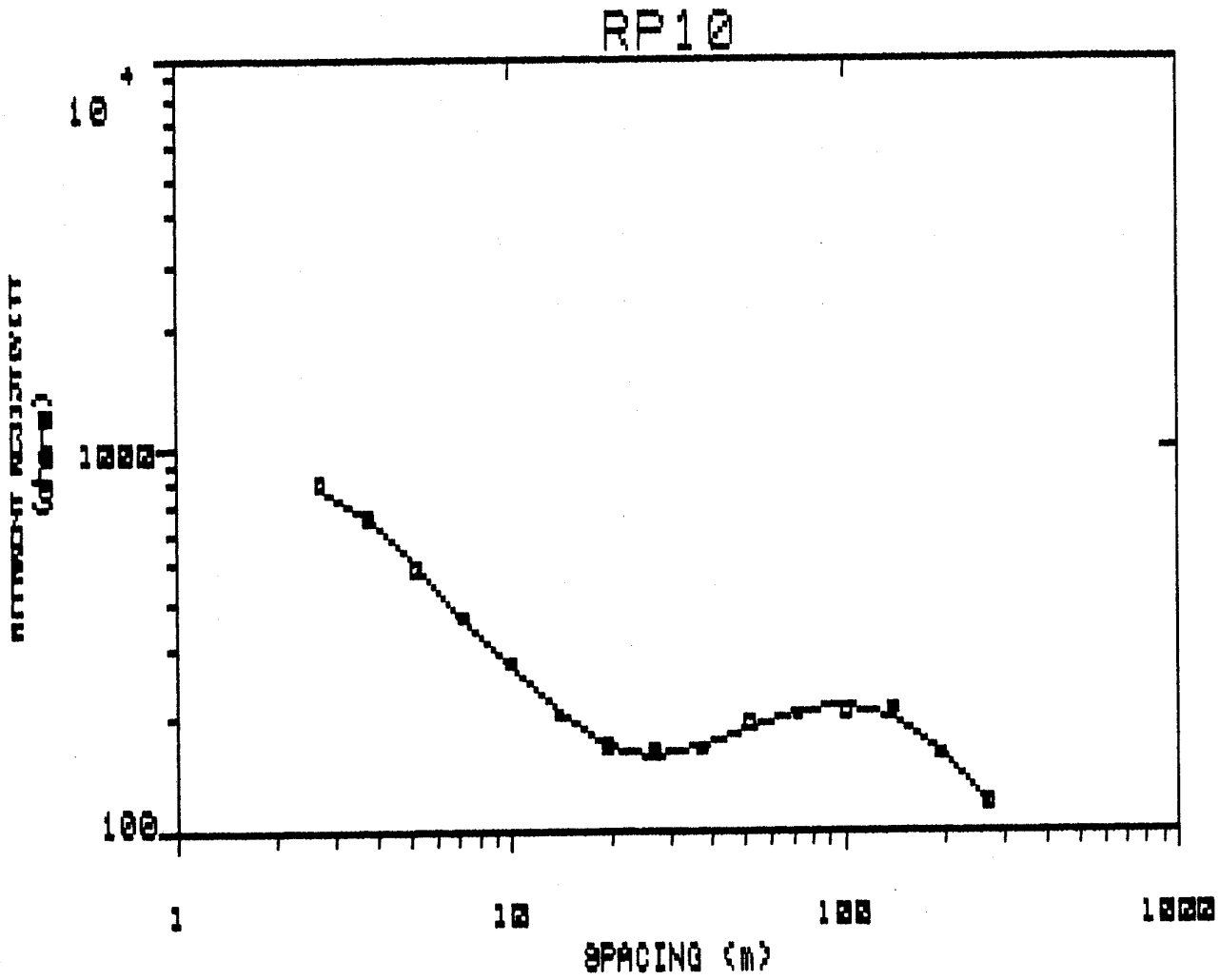
No.	Spacing (m)	PA (ohm-m) DATA	PA (ohm-m) SYNTHETIC	DIFFERENCE (percent)
1	2.68	802.3	791.9	1.29
2	3.73	661.4	654.0	1.12
3	5.18	480.3	494.8	-3.00
4	7.20	360.9	358.7	0.613
5	10.00	275.4	267.2	2.97
6	13.90	203.7	207.6	-1.92
7	19.30	167.0	170.2	-1.96
8	26.80	166.0	158.3	4.59
9	37.30	166.0	169.1	-1.92
10	51.80	192.0	189.1	1.49
11	72.00	203.0	205.8	-1.41
12	100.0	206.0	211.1	-2.47
13	139.0	209.0	198.2	5.16
14	193.0	159.0	165.1	-3.85
15	268.0	120.0	120.6	-0.500

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER

P 1	0.99									
P 2	-0.02	0.92								
P 3	0.00	-0.02	0.60							
P 4	0.01	0.05	0.06	0.63						
P 5	0.00	-0.02	-0.05	0.28	0.50					
P 6	0.00	0.00	0.03	-0.09	-0.03	0.53				
T 1	0.02	0.06	0.00	-0.03	0.01	0.00	0.96			
T 2	0.01	0.09	0.17	-0.12	0.06	-0.02	-0.05	0.82		
T 3	0.00	-0.01	-0.43	-0.14	0.08	-0.01	0.00	0.13	0.40	
T 4	0.00	-0.01	-0.01	0.11	0.23	0.09	0.00	0.02	0.03	0.13
T 5	0.00	-0.02	0.02	-0.06	0.24	0.32	0.01	0.02	0.03	0.19
	P 1	P 2	P 3	P 4	P 5	P 6	T 1	T 2	T 3	T 4

SECOND PART OF RESOLUTION MATRIX:

T 5	0.43	
	T 5	


RP10
10 4
1000
100
1
10
100
1000
SPACING (m)

DATA SET: RP11

CLIENT: ITGE
LOCATION: ALGAR
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 27-05-92
SOUNDING: RP11
AZIMUTH: 0.00 Deg NORTH
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 9.172 PERCENT

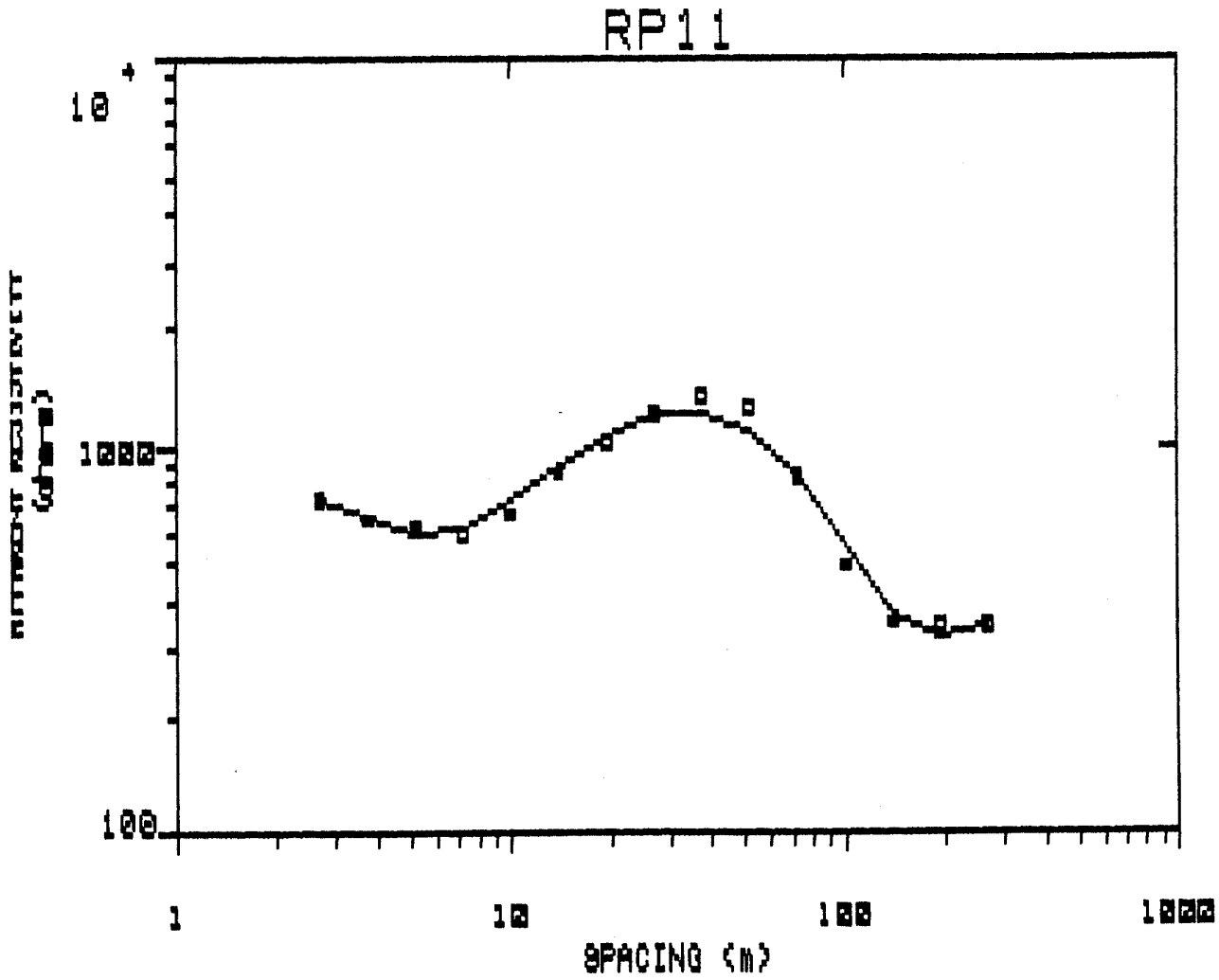
L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	921.1		1.51	-1.51	0.00165
2	386.3		3.71	-5.23	0.00961
3	3708.6		9.96	-15.19	0.00269
4	295.2				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	PA (ohm-m) SYNTHETIC	DIFFERENCE (percent)
1	2.68	726.0	736.1	-1.39
2	3.73	651.0	646.0	0.759
3	5.18	624.0	595.3	4.59
4	7.20	594.0	623.3	-4.94
5	10.00	673.0	735.3	-9.25
6	13.90	849.0	901.3	-6.16
7	19.30	1024.0	1071.5	-4.63
8	26.80	1225.0	1189.5	2.89
9	37.30	1359.0	1197.2	11.90
10	51.80	1253.0	1062.0	15.23
11	72.00	838.0	817.8	2.40
12	100.0	492.0	567.7	-15.39
13	139.0	351.0	402.7	-14.74
14	193.0	346.0	331.9	4.06
15	268.0	344.0	309.3	10.06

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER

P 1	0.52						
P 2	0.12	0.60					
P 3	0.00	0.03	0.48				
P 4	0.00	0.00	0.03	0.86			
T 1	0.28	0.11	-0.03	0.02	0.38		
T 2	0.01	-0.38	-0.05	0.04	0.17	0.45	
T 3	0.00	-0.02	0.45	0.06	0.02	0.04	0.45
	P 1	P 2	P 3	P 4	T 1	T 2	T 3


RP11
10^4
1000
100
1
10
100
1000
SPACING (m)

DATA SET: RP12

CLIENT: ITGE
LOCATION: ALGAR
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 27-05-92
SOUNDING: RP12
AZIMUTH: 0.00 Deg NORTH
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 2.255 PERCENT

L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	642.9		1.05	-1.05	0.00165
2	227.9		1.52	-2.57	0.00668
3	1371.4		22.55	-25.13	0.0164
4	1028.8		22.02	-47.16	0.0214
5	252.6		24.90	-72.06	0.0985
6	20.75				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	444.9	444.3	0.136
2	3.73	430.5	431.5	-0.242
3	5.18	482.6	481.2	0.272
4	7.20	574.8	579.2	-0.765
5	10.00	707.8	699.1	1.22
6	13.90	809.6	824.0	-1.77
7	19.30	937.1	939.4	-0.240
8	26.80	1069.0	1027.7	3.85
9	37.30	1051.0	1064.1	-1.24
10	51.80	1021.0	1018.7	0.218
11	72.00	827.0	870.0	-5.20
12	100.0	656.0	626.8	4.44
13	139.0	351.0	352.9	-0.546
14	193.0	146.0	146.9	-0.660

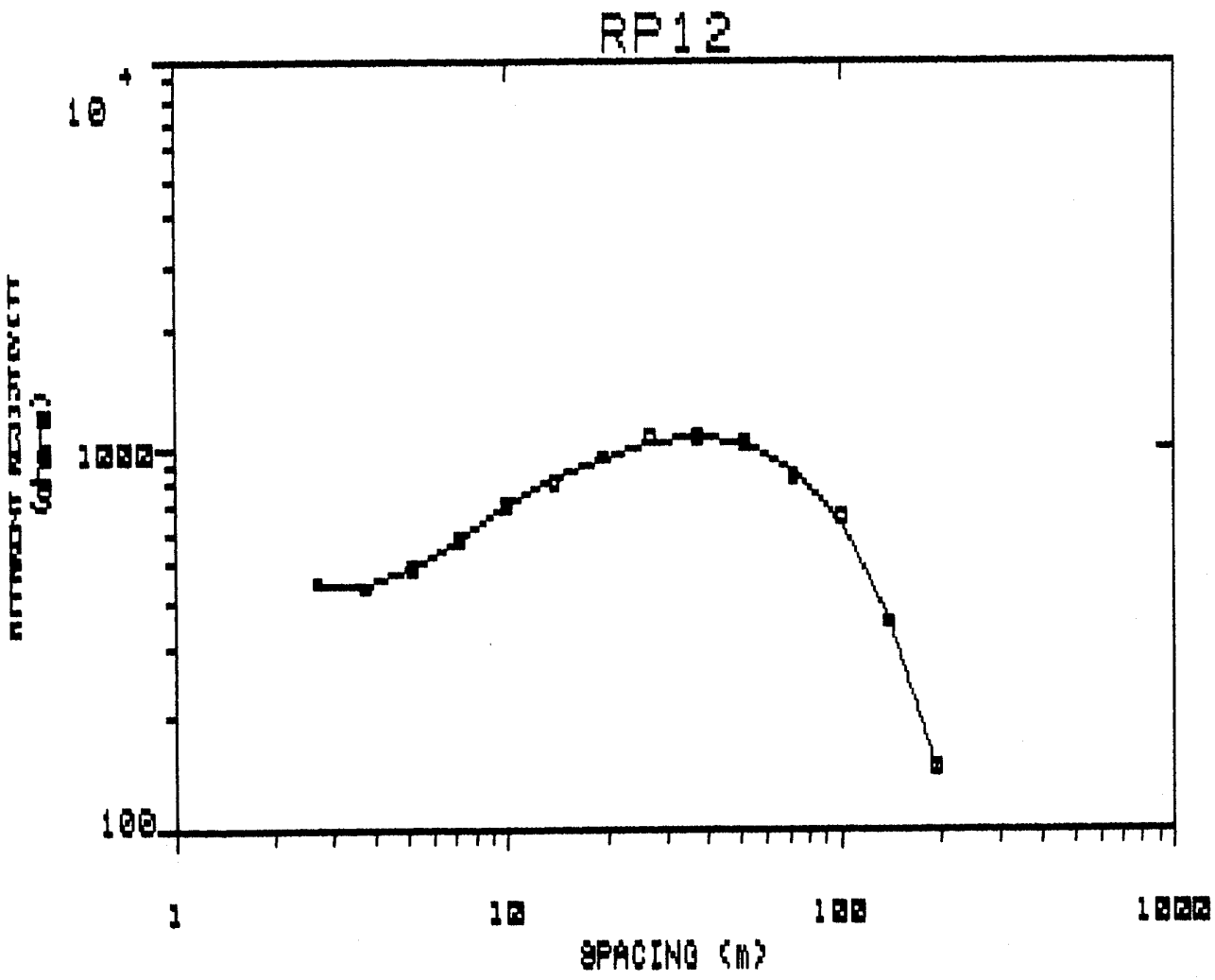
PARAMETER RESOLUTION MATRIX:

"F" INDICATES FIXED PARAMETER

P 1	0.68									
P 2	0.04	0.63								
P 3	0.02	-0.02	0.98							
P 4	-0.04	0.02	0.05	0.48						
P 5	0.01	0.00	-0.01	-0.01	0.05					
P 6	0.00	0.00	0.00	-0.16	0.06	0.26				
T 1	0.24	0.14	-0.02	0.04	-0.01	0.00	0.72			
T 2	-0.06	-0.42	-0.03	0.04	-0.01	0.00	0.24	0.47		
T 3	-0.02	0.01	0.02	0.31	0.11	0.04	0.01	0.02	0.46	
T 4	0.02	-0.01	-0.04	0.07	0.14	0.11	-0.03	-0.02	0.35	0.39
T 5	0.01	-0.01	-0.01	-0.13	0.08	0.19	-0.01	-0.01	0.10	0.19
	P 1	P 2	P 3	P 4	P 5	P 6	T 1	T 2	T 3	T 4

SECOND PART OF RESOLUTION MATRIX:

T 5	0.19	
	T 5	


RP12
10
1000
100
1
10
100
1000
SPACING (m)

DATA SET: RP13

CLIENT: ITGE
LOCATION: ALGAR
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 27-05-92
SOUNDING: RP13
AZIMUTH: 0.00 Deg NORTH
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 4.780 PERCENT

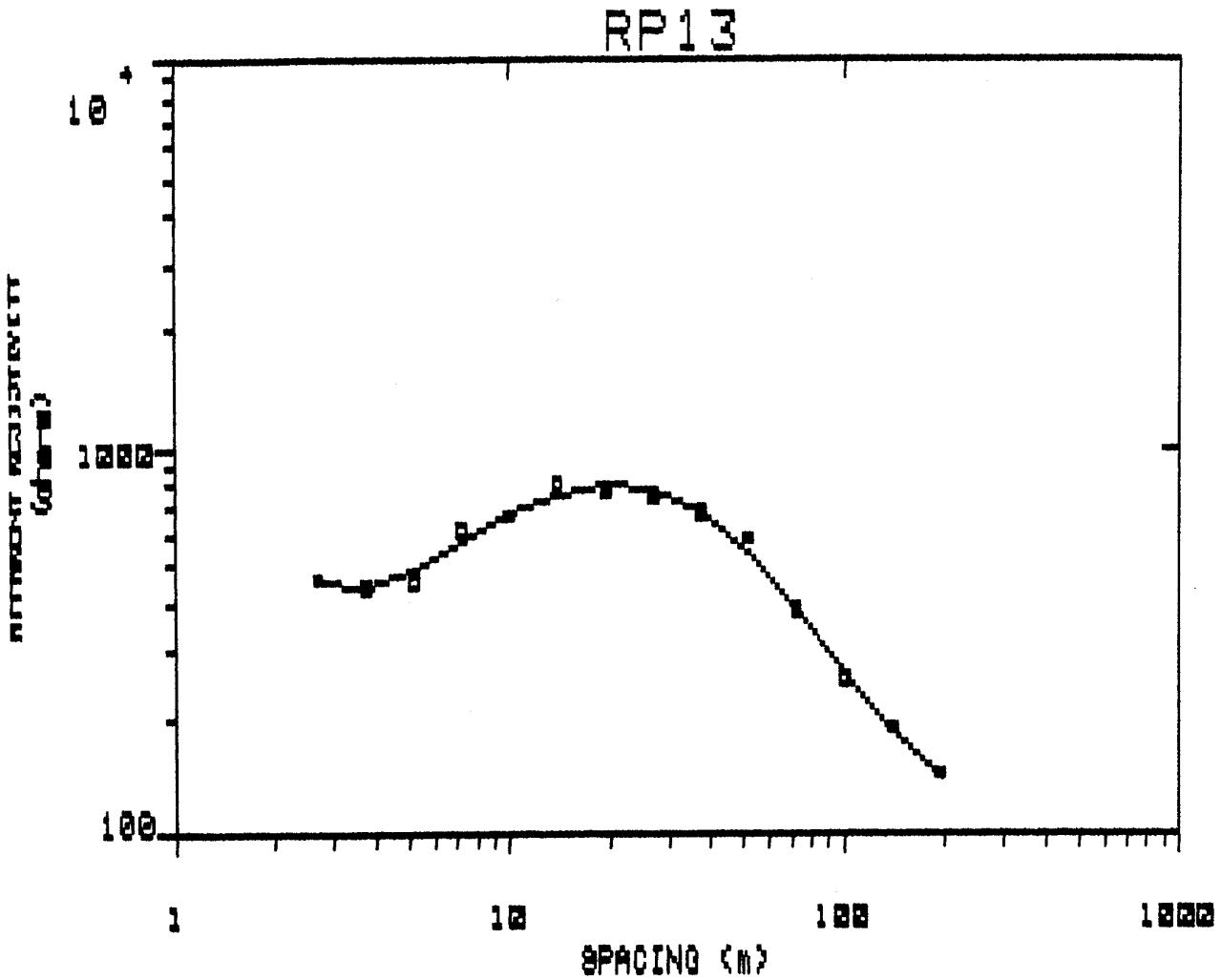
L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	661.8		1.00	-1.00	0.00152
2	258.5		1.71	-2.72	0.00664
3	1311.6		11.29	-14.01	0.00861
4	346.1		33.85	-47.87	0.0977
5	115.4				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	PA (ohm-m) SYNTHETIC	DIFFERENCE (percent)
1	2.68	460.5	452.9	1.63
2	3.73	434.6	438.9	-0.985
3	5.18	453.5	484.0	-6.72
4	7.20	618.6	572.6	7.43
5	10.00	670.3	674.8	-0.662
6	13.90	811.6	763.4	5.93
7	19.30	764.0	810.1	-6.04
8	26.80	744.0	788.2	-5.94
9	37.30	687.0	688.3	-0.197
10	51.80	587.0	538.9	8.18
11	72.00	378.0	386.4	-2.23
12	100.0	256.0	265.2	-3.60
13	139.0	189.0	185.5	1.84
14	193.0	144.0	143.8	0.0975

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER

P 1	0.24								
P 2	0.19	0.53							
P 3	0.00	0.08	0.63						
P 4	0.00	-0.02	0.09	0.39					
P 5	0.00	0.01	-0.03	0.04	0.66				
T 1	0.26	0.11	-0.09	0.05	-0.01	0.39			
T 2	-0.03	-0.37	-0.13	0.07	-0.01	0.11	0.36		
T 3	0.00	-0.05	0.32	0.27	0.00	0.05	0.09	0.36	
T 4	0.00	0.01	-0.05	0.23	0.28	0.01	0.01	0.06	0.31
	P 1	P 2	P 3	P 4	P 5	T 1	T 2	T 3	T 4


RP13
10000
1000
100
1
10
100
1000
SPACING (m)

DATA SET: RP14

CLIENT: ITGE
LOCATION: ALGAR
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 27-05-92
SOUNDING: RP14
AZIMUTH: 0.00 Deg NORTH
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 2.979 PERCENT

L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
1	1974.6			0.0	
2	546.0		1.03	-1.03	5.220E-04
3	1375.3		2.67	-3.70	0.00490
4	261.6		4.48	-8.19	0.00326
5	99.14		5.30	-13.49	0.0202
6	202.0		17.11	-30.61	0.172
7	52.63		73.46	-104.0	0.363

ALL PARAMETERS ARE FREE

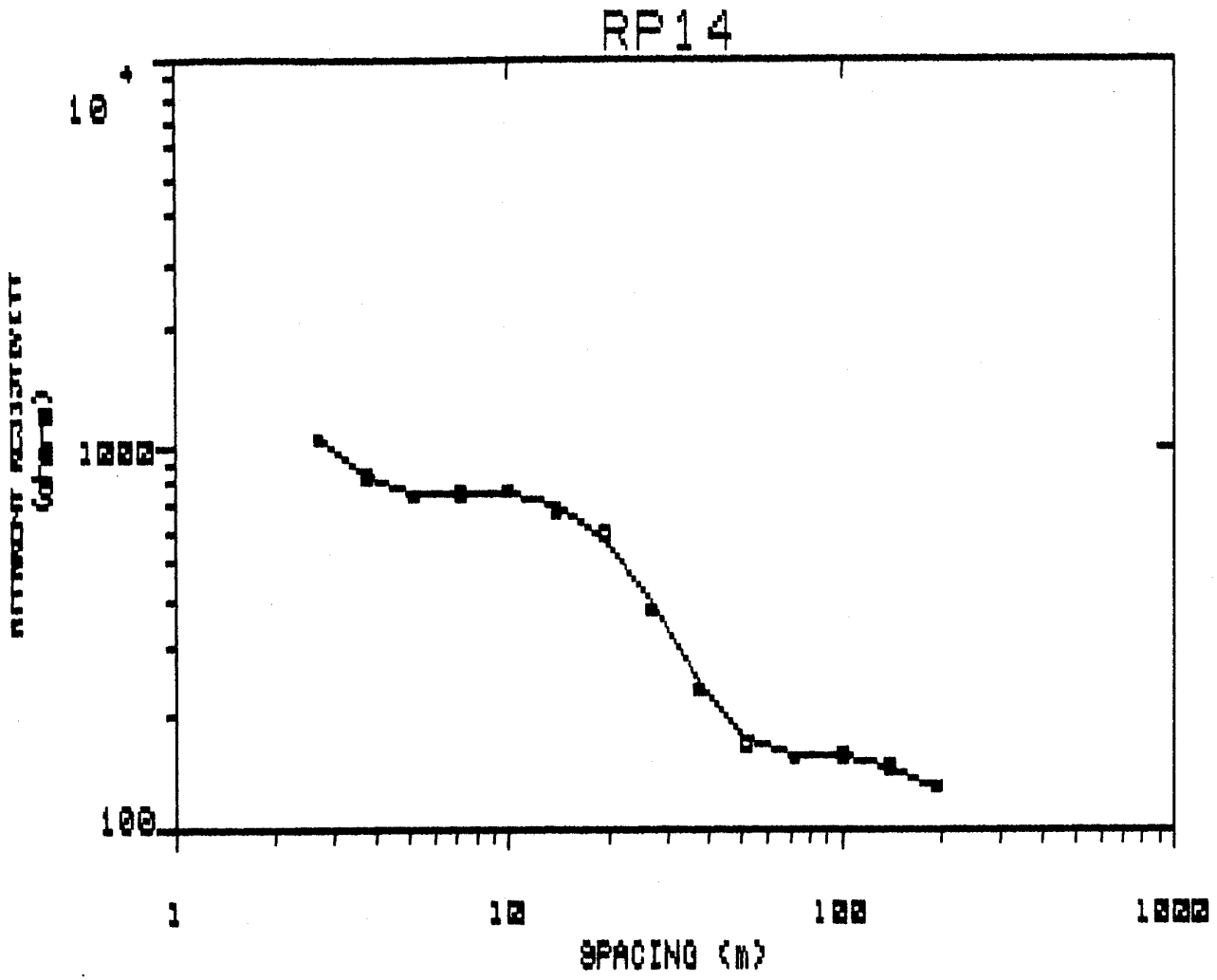
No.	Spacing (m)	PA (ohm-m) DATA	PA (ohm-m) SYNTHETIC	DIFFERENCE (percent)
1	2.68	1040.0	1054.4	-1.39
2	3.73	836.0	835.3	0.0813
3	5.18	740.0	748.8	-1.18
4	7.20	754.0	750.6	0.443
5	10.00	768.0	757.0	1.42
6	13.90	671.0	701.8	-4.60
7	19.30	596.0	566.8	4.88
8	26.80	373.0	391.0	-4.83
9	37.30	232.0	245.4	-5.78
10	51.80	168.0	174.0	-3.61
11	72.00	155.0	157.3	-1.50
12	100.0	157.0	156.0	0.604
13	139.0	148.0	148.2	-0.167
14	193.0	130.0	128.8	0.861

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER

P 1	0.65									
P 2	-0.10	0.89								
P 3	0.07	0.04	0.77							
P 4	-0.03	0.02	0.04	0.17						
P 5	0.02	0.01	-0.04	0.06	0.78					
P 6	-0.01	0.00	0.01	0.01	0.05	0.85				
P 7	0.00	0.00	-0.01	-0.02	-0.01	0.06	0.19			
T 1	0.26	0.13	-0.07	0.00	-0.02	0.01	0.00	0.76		
T 2	-0.14	-0.19	-0.13	0.15	-0.01	0.01	0.00	0.20	0.42	
T 3	-0.05	-0.01	0.31	0.23	0.02	-0.01	0.00	0.04	0.24	0.44
T 4	0.01	0.05	-0.11	0.16	0.18	-0.09	0.06	-0.04	0.06	0.15
T 5	0.01	0.01	-0.03	0.01	-0.28	-0.13	0.12	-0.01	0.01	0.04
T 6	0.01	0.00	-0.01	-0.02	-0.05	0.23	0.28	-0.01	0.00	0.01
	P 1	P 2	P 3	P 4	P 5	P 6	P 7	T 1	T 2	T 3

SECOND PART OF RESOLUTION MATRIX:

T 4	0.38		
T 5	0.14	0.29	
T 6	0.10	0.20	0.45
	T 4	T 5	T 6


RP14
10^4
1000
100
1
10
100
1000
SPACING (m)

DATA SET: RP15

CLIENT: ITGE
LOCATION: ALGAR
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 27-05-92
SOUNDING: RP15
AZIMUTH: 0.00 Deg NORTH
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 1.378 PERCENT

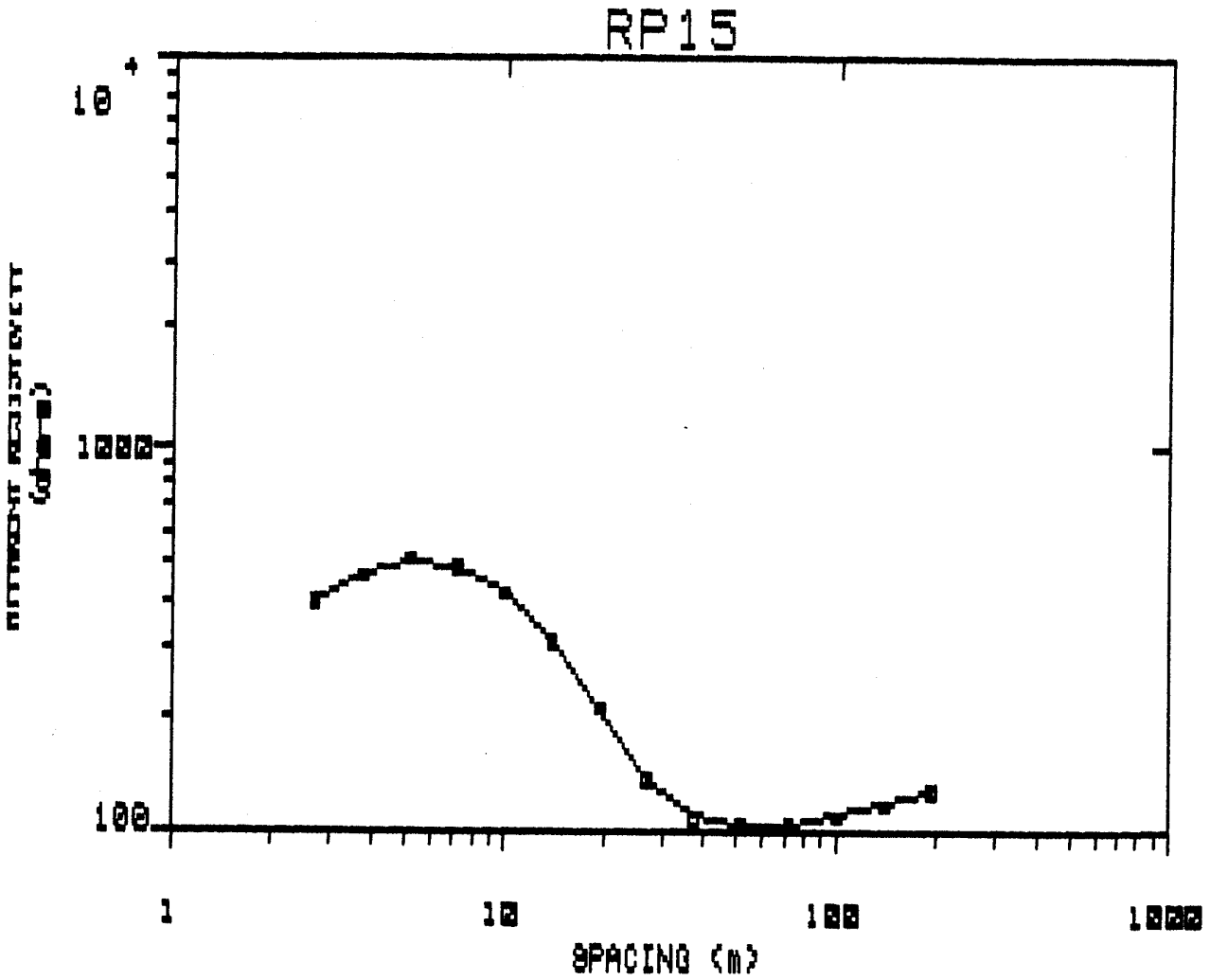
L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	185.9		0.871	-0.871	0.00469
2	1370.9		1.91	-2.79	0.00140
3	163.9		3.69	-6.49	0.0225
4	94.43		48.58	-55.07	0.514
5	148.8				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	436.0	438.1	-0.490
2	3.73	512.0	512.7	-0.138
3	5.18	566.0	556.0	1.75
4	7.20	538.0	543.4	-1.00
5	10.00	462.0	464.7	-0.599
6	13.90	346.0	342.1	1.09
7	19.30	218.0	225.5	-3.46
8	26.80	153.0	152.5	0.316
9	19.30	209.0	203.4	2.65
10	26.80	138.0	137.5	0.316
11	37.30	109.0	110.5	-1.42
12	51.80	105.0	103.9	1.00
13	72.00	106.0	105.2	0.740
14	100.0	110.0	110.7	-0.708
15	139.0	118.0	118.8	-0.705
16	193.0	128.0	127.2	0.620

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER

	P 1	P 2	P 3	P 4	P 5	T 1	T 2	T 3	T 4
P 1	0.55								
P 2	0.02	0.56							
P 3	0.04	0.03	0.21						
P 4	0.01	-0.01	0.02	0.99					
P 5	0.01	0.00	0.01	-0.01	0.93				
T 1	-0.47	-0.08	0.08	0.01	0.00	0.49			
T 2	-0.02	0.45	0.17	0.00	0.00	0.07	0.48		
T 3	0.07	-0.07	0.21	0.04	0.01	0.08	0.08	0.30	
T 4	0.04	-0.03	0.03	-0.05	-0.16	0.03	0.01	0.17	0.48


RP15
10 4
1000
100
1
10
100
1000
SPACING (m)

DATA SET: RP16

CLIENT: ITGE
LOCATION: ALGAR
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 28-05-92
SOUNDING: RP16
AZIMUTH: 0.00 Deg NORTH
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 2.891 PERCENT

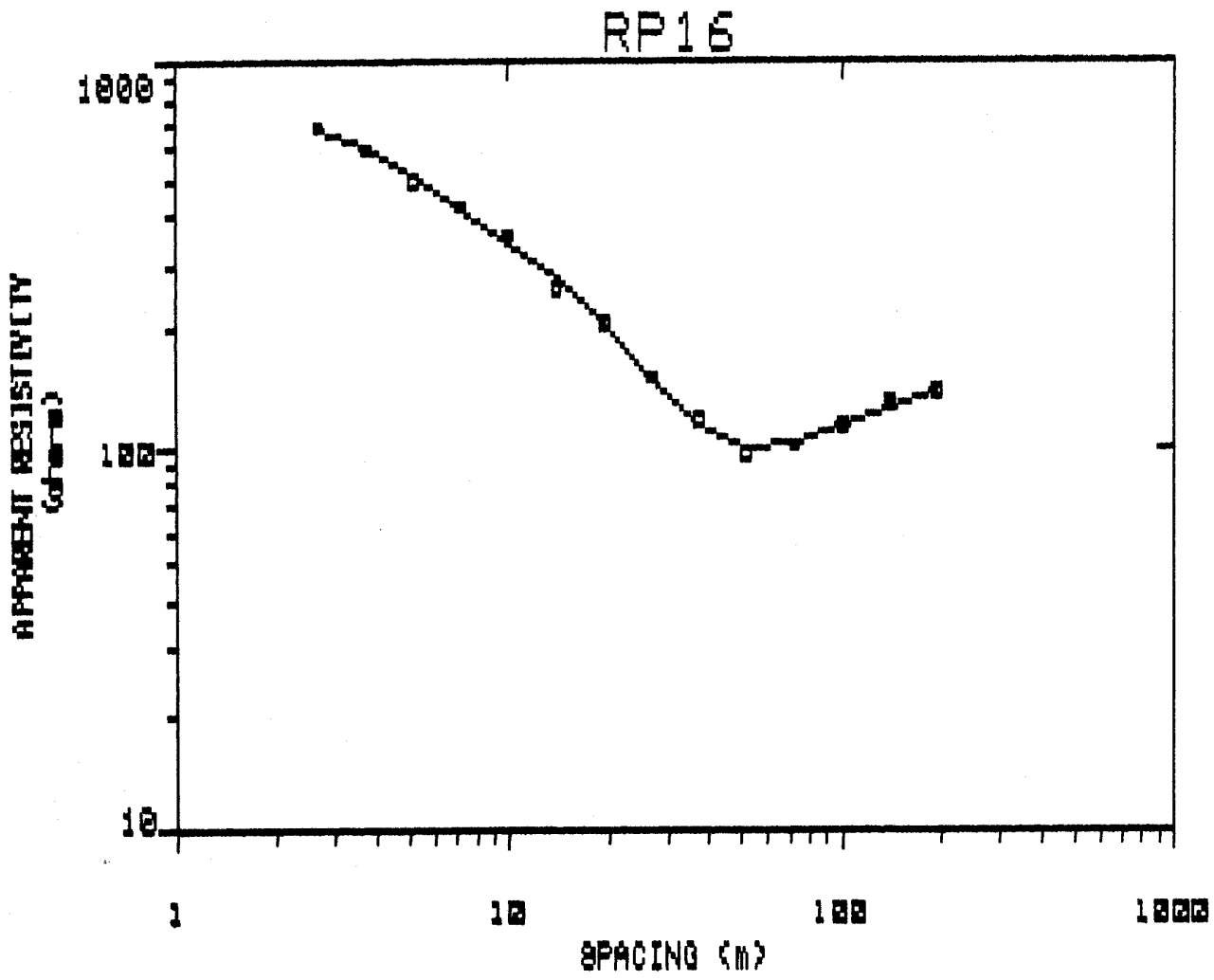
L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	730.8		2.39	-2.39	0.00328
2	305.9		8.74	-11.13	0.0285
3	73.39		33.43	-44.57	0.455
4	177.6				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	678.0	664.6	1.96
2	3.73	593.0	600.3	-1.23
3	5.18	493.0	511.7	-3.81
4	7.20	424.0	417.9	1.43
5	10.00	358.0	338.4	5.46
6	13.90	259.0	272.3	-5.16
7	19.30	209.0	209.5	-0.239
8	26.80	151.0	151.8	-0.562
9	37.30	117.0	112.9	3.43
10	51.80	96.00	98.78	-2.90
11	72.00	101.0	102.0	-1.00
12	100.0	114.0	113.6	0.294
13	139.0	132.0	127.9	3.07
14	193.0	139.0	141.6	-1.87

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER
P 1 1.00

P 2	0.00	1.00					
P 3	0.00	0.00	1.00				
P 4	0.00	0.00	0.00	1.00			
T 1	0.00	0.00	0.00	0.00	1.00		
T 2	0.00	0.00	0.00	0.00	0.00	1.00	
T 3	0.00	0.00	-0.01	0.00	0.00	0.00	0.98
	P 1	P 2	P 3	P 4	T 1	T 2	T 3


RP16
1000
100
10
1
10
100
1000
SPACING (m)

DATA SET: RP17

CLIENT: ITGE
LOCATION: ALGAR
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 28-05-92
SOUNDING: RP17
AZIMUTH: N-10-W
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 1.419 PERCENT

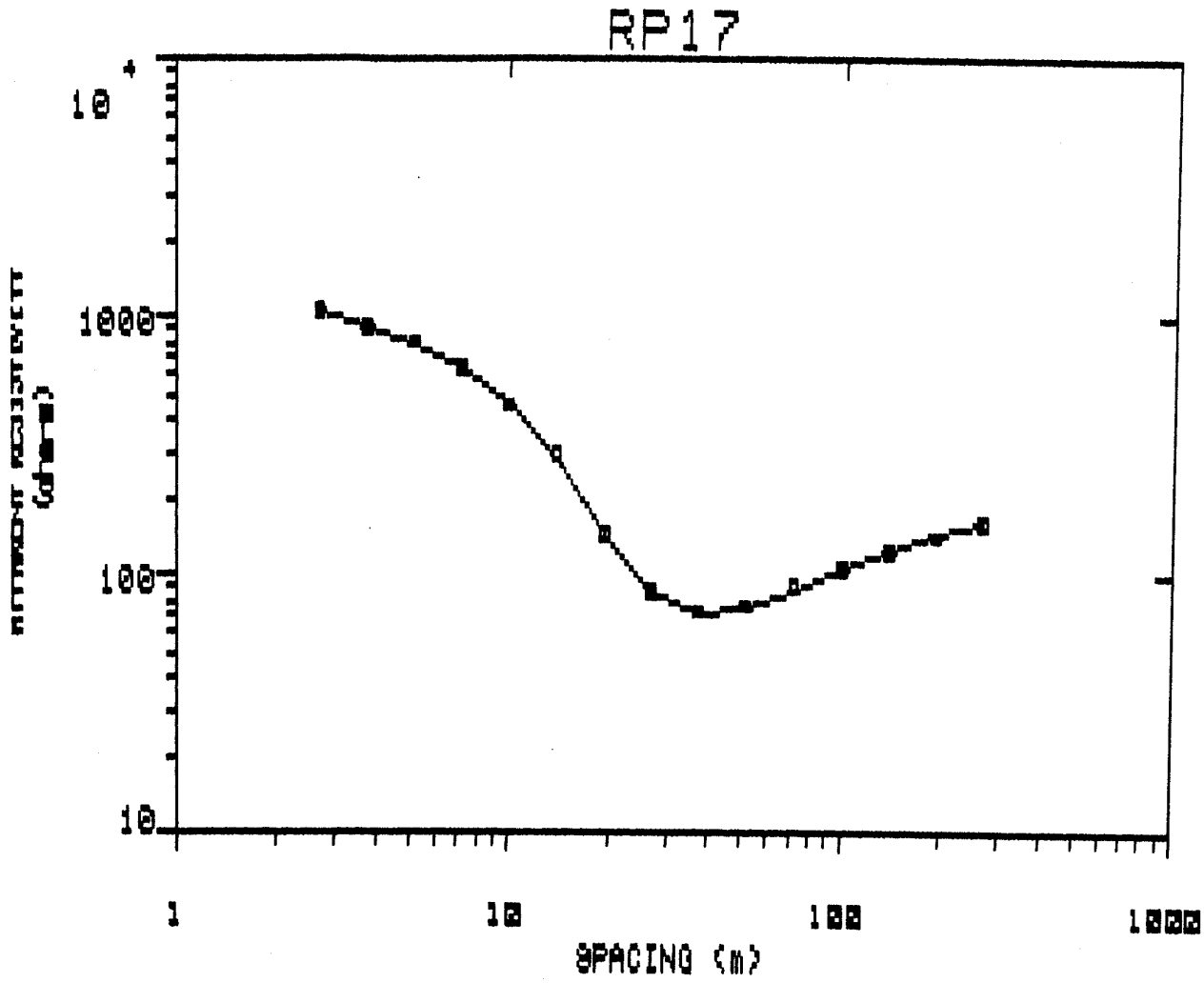
RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
			0.0	
1482.8		1.07	-1.07	7.246E-04
788.2		4.94	-6.02	0.00628
57.67		33.35	-39.38	0.578
207.4				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	1078.4	1073.9	0.410
2	3.73	911.8	923.8	-1.31
3	5.18	798.5	787.8	1.34
4	7.20	648.4	643.6	0.741
5	10.00	454.5	468.8	-3.14
6	13.90	292.1	284.3	2.64
7	19.30	147.0	148.4	-0.992
8	26.80	86.00	85.97	0.0299
9	37.30	72.00	71.91	0.117
10	51.80	76.00	76.42	-0.558
11	72.00	90.00	88.57	1.58
12	100.0	105.0	105.4	-0.427
13	139.0	124.0	124.4	-0.353
14	193.0	141.0	143.3	-1.66
15	268.0	163.0	160.7	1.36

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER

P 1	0.98						
P 2	0.00	1.00					
P 3	0.00	0.00	1.00				
P 4	0.00	0.00	0.00	1.00			
T 1	0.02	0.01	0.00	0.00	0.96		
T 2	0.00	0.00	0.00	0.00	0.00	1.00	
T 3	0.00	0.00	0.00	0.00	0.00	0.00	1.00
	P 1	P 2	P 3	P 4	T 1	T 2	T 3


RP17
10 4
1000
100
10
1
10
100
1000
SPACING (m)

DATA SET: RP18

CLIENT: ITGE
LOCATION: ALGAR
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 28-05-92
SOUNDING: RP18
AZIMUTH: N-10-W
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 4.678 PERCENT

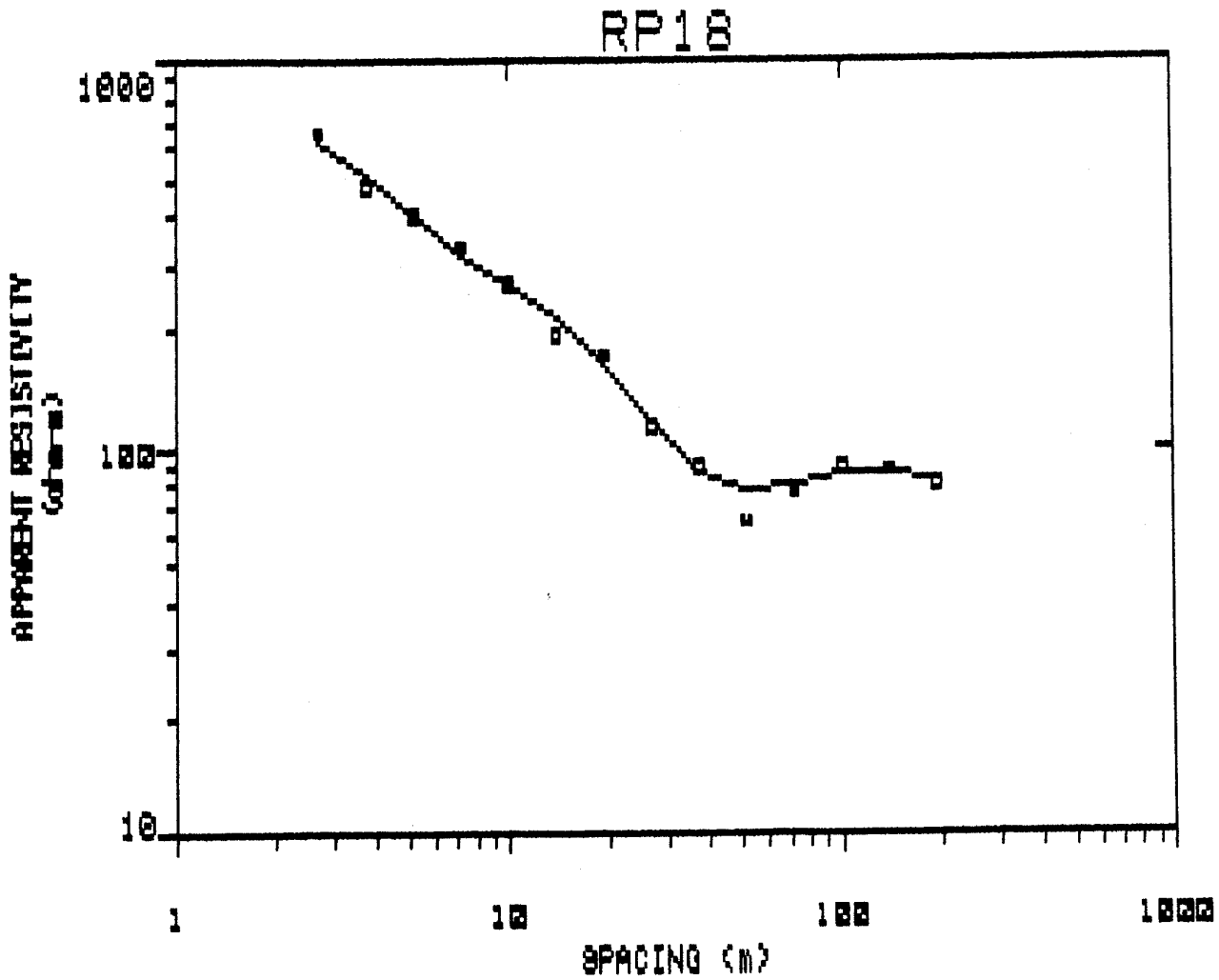
L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	837.7		1.62	-1.62	0.00193
2	270.2		8.60	-10.22	0.0318
3	59.15		31.94	-42.16	0.539
4	162.3		48.03	-90.19	0.295
5	43.15				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	PA (ohm-m) SYNTHETIC	DIFFERENCE (percent)
1	2.68	661.9	635.7	3.96
2	3.73	478.0	512.2	-7.15
3	5.18	399.7	396.9	0.695
4	7.20	331.3	315.3	4.82
5	10.00	269.0	262.2	2.52
6	13.90	196.0	215.2	-9.76
7	19.30	173.0	163.9	5.24
8	26.80	114.0	116.9	-2.55
9	37.30	90.00	87.60	2.65
10	51.80	65.00	78.40	-20.62
11	72.00	77.00	80.97	-5.16
12	100.0	90.00	86.32	4.07
13	139.0	88.00	87.94	0.0624
14	193.0	81.00	82.61	-1.99

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER

P 1	0.97								
P 2	-0.01	0.98							
P 3	-0.01	-0.03	0.88						
P 4	0.01	0.01	0.01	0.63					
P 5	0.00	0.00	0.01	0.21	0.44				
T 1	0.03	0.03	0.03	-0.01	0.00	0.95			
T 2	0.01	0.02	0.06	-0.02	0.00	-0.02	0.96		
T 3	-0.02	-0.03	-0.19	-0.19	0.19	0.04	0.10	0.53	
T 4	0.00	0.00	-0.02	0.32	0.26	0.00	0.01	0.08	0.25
	P 1	P 2	P 3	P 4	P 5	T 1	T 2	T 3	T 4


RP18
1000
100
10
APPARENT RESISTIVITY
(ohm-m)
1
10
100
1000
SPACING (m)

DATA SET: RP19

CLIENT: ITGE
LOCATION: ALGAR
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 28-05-92
SOUNDING: RP19
AZIMUTH: N-10-W
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 2.711 PERCENT

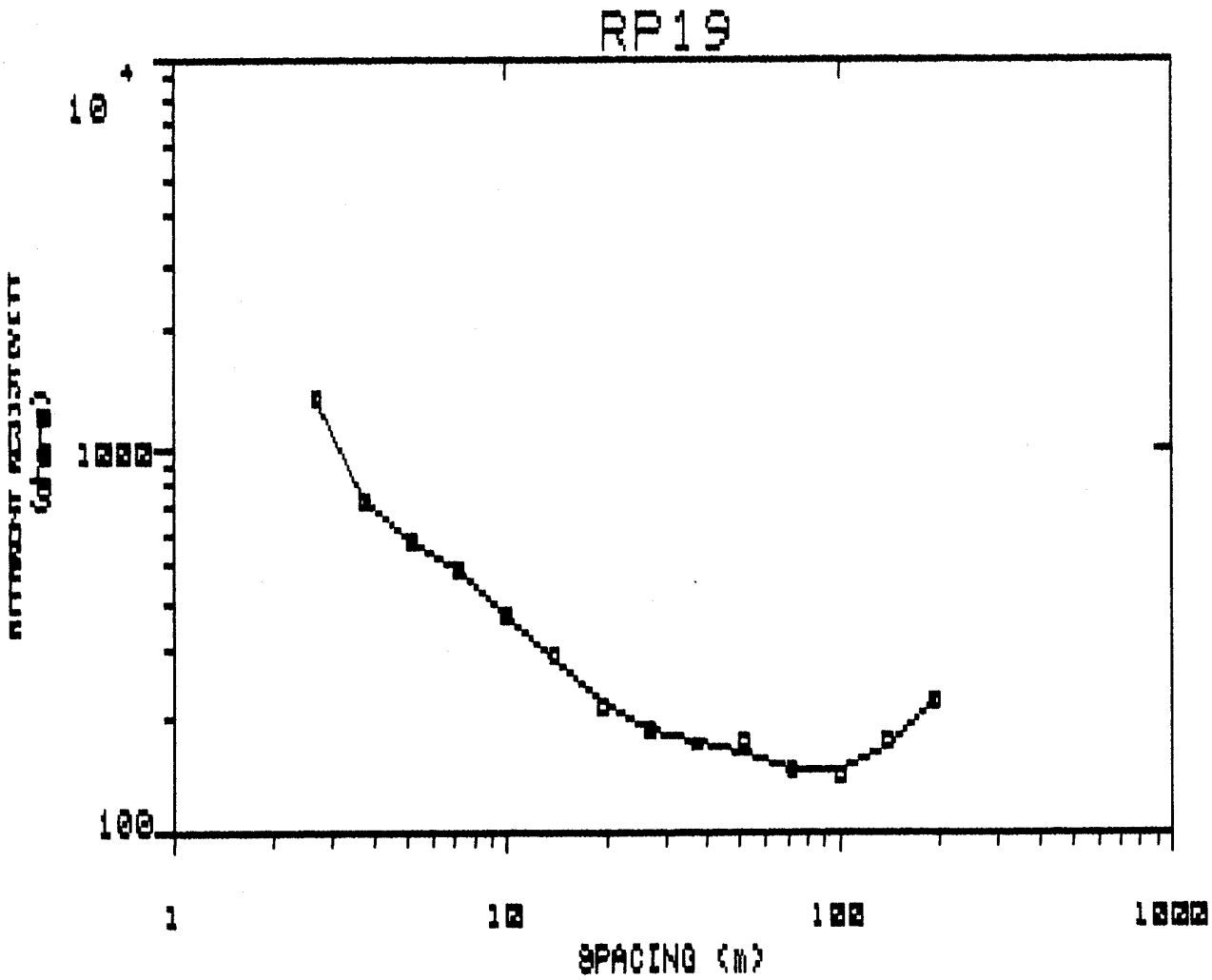
L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	16695.3		0.629	-0.629	3.771E-05
2	629.9		4.24	-4.87	0.00674
3	176.9		36.69	-41.57	0.207
4	50.33		29.87	-71.44	0.593
5	2263.0				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	1356.1	1356.1	0.00374
2	3.73	735.7	736.0	-0.0493
3	5.18	576.3	580.1	-0.653
4	7.20	480.9	478.4	0.538
5	10.00	365.7	370.7	-1.36
6	13.90	287.4	277.3	3.50
7	19.30	212.0	217.8	-2.73
8	26.80	185.0	188.8	-2.07
9	37.30	171.0	173.6	-1.56
10	51.80	173.0	160.6	7.12
11	72.00	147.0	148.9	-1.29
12	100.0	143.0	148.1	-3.62
13	139.0	173.0	170.9	1.20
14	193.0	222.0	220.5	0.634

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER

P 1	0.39								
P 2	-0.06	0.98							
P 3	-0.01	-0.01	0.99						
P 4	0.01	0.00	0.00	0.53					
P 5	0.01	0.00	0.01	0.04	0.02				
T 1	0.12	0.01	0.00	0.00	0.00	0.97			
T 2	0.04	0.02	0.01	0.00	-0.01	-0.01	0.97		
T 3	0.03	0.01	0.02	0.09	-0.05	-0.01	-0.02	0.91	
T 4	-0.01	0.00	0.00	-0.48	-0.05	0.00	0.00	0.10	0.48
	P 1	P 2	P 3	P 4	P 5	T 1	T 2	T 3	T 4


RP19
10 4
1000
100
1
10
100
1000
SPACING (m)

DATA SET: RP20

CLIENT: ITGE
LOCATION: ALGAR
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 28-05-92
SOUNDING: RP20
AZIMUTH: N-20-W
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 4.611 PERCENT

L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	603.5		0.911	-0.911	0.00151
2	227.8		1.89	-2.80	0.00833
3	362.0		7.97	-10.78	0.0220
4	82.05		32.74	-43.52	0.399
5	177.3		50.22	-93.75	0.283
6	70.22				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	357.0	350.1	1.93
2	3.73	293.1	305.5	-4.24
3	5.18	294.1	292.4	0.592
4	7.20	316.5	295.1	6.77
5	10.00	287.8	294.2	-2.24
6	13.90	249.4	276.2	-10.74
7	19.30	249.0	236.2	5.12
8	26.80	194.0	183.1	5.58
9	37.30	132.0	136.9	-3.77
10	51.80	109.0	112.9	-3.57
11	72.00	110.0	108.3	1.51
12	100.0	116.0	111.8	3.56
13	139.0	112.0	113.5	-1.37
14	193.0	108.0	108.7	-0.724

PARAMETER RESOLUTION MATRIX:

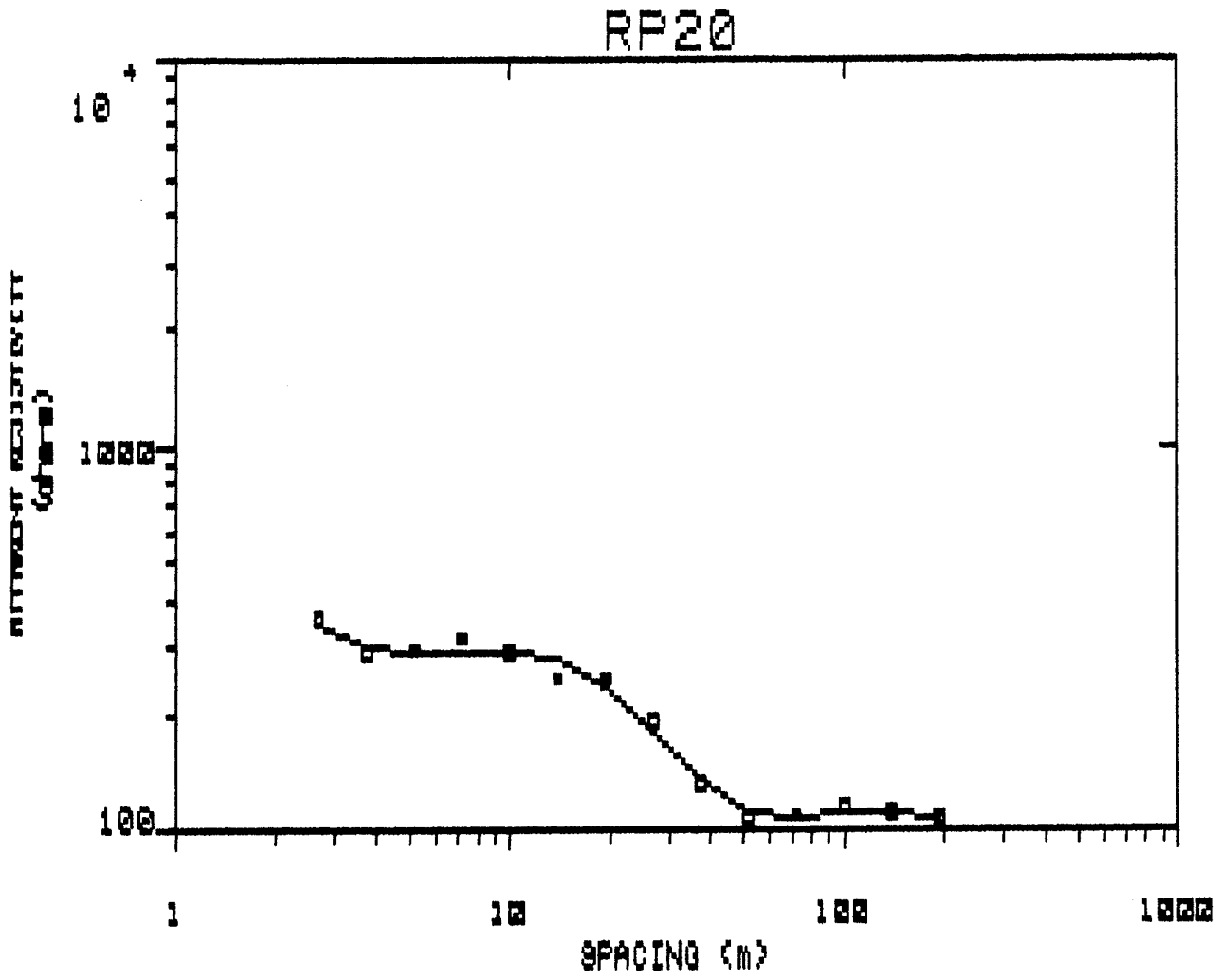
* ADARO *

"F" INDICATES FIXED PARAMETER

P 1	0.20									
P 2	0.12	0.61								
P 3	-0.03	0.15	0.74							
P 4	0.00	-0.02	0.00	0.70						
P 5	0.00	0.01	0.00	0.15	0.42					
P 6	0.00	0.00	0.00	0.00	0.23	0.18				
T 1	0.26	0.23	-0.06	0.03	-0.01	0.00	0.42			
T 2	0.01	-0.20	-0.06	0.05	-0.02	0.00	0.05	0.13		
T 3	0.00	-0.11	0.27	0.17	-0.07	-0.01	0.08	0.16	0.47	
T 4	0.00	-0.01	0.02	-0.22	-0.11	0.01	0.01	0.02	0.06	0.14
T 5	0.00	0.00	0.00	0.02	0.21	0.15	0.00	-0.01	-0.02	-0.02
	P 1	P 2	P 3	P 4	P 5	P 6	T 1	T 2	T 3	T 4

SECOND PART OF RESOLUTION MATRIX:

T 5	0.12	
	T 5	


RP20
10 4
1000
100
1
10
100
1000
SPACING (m)

DATA SET: RP21

CLIENT: ITGE
LOCATION: ALGAR
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 28-05-92
SOUNDING: RP21
AZIMUTH: N-20-W
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 5.050 PERCENT

L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	665.0		1.72	-1.72	0.00259
2	235.1		3.42	-5.14	0.0145
3	261.3		10.89	-16.04	0.0417
4	612.6		15.87	-31.91	0.0259
5	54.88		59.89	-91.81	1.09
6	392.8				

ALL PARAMETERS ARE FREE

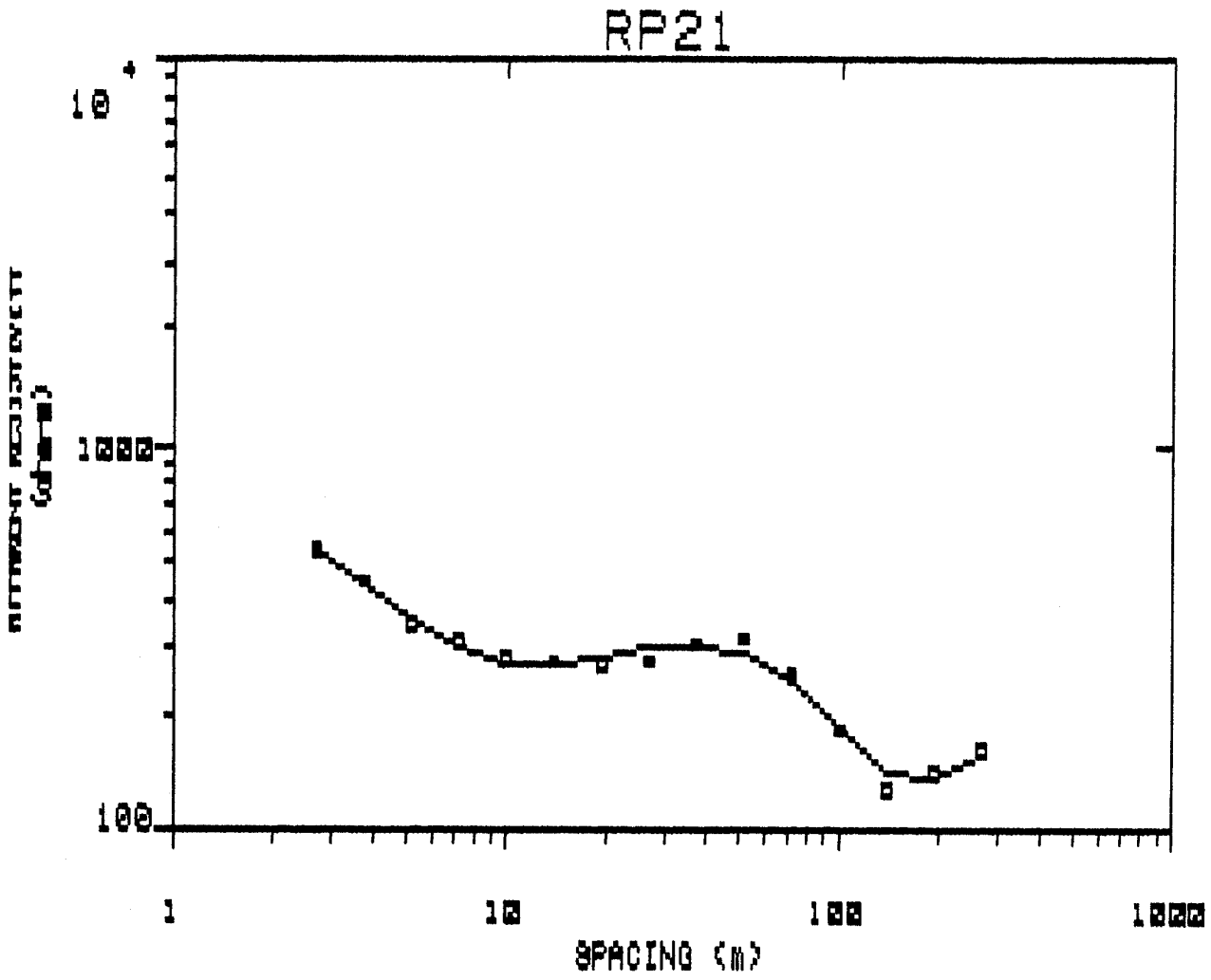
No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	534.0	531.0	0.558
2	3.73	444.0	442.7	0.275
3	5.18	346.0	357.4	-3.30
4	7.20	309.0	299.9	2.92
5	10.00	280.0	275.5	1.59
6	13.90	275.0	273.0	0.699
7	19.30	271.0	282.5	-4.25
8	26.80	275.0	297.0	-8.00
9	37.30	305.0	304.9	0.0175
10	51.80	318.0	289.8	8.84
11	72.00	257.0	244.5	4.86
12	100.0	184.0	184.8	-0.441
13	139.0	127.0	142.2	-11.98
14	193.0	142.0	135.7	4.42
15	268.0	161.0	157.3	2.26

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER

P 1	0.66										
P 2	-0.02	0.54									
P 3	-0.01	0.20	0.67								
P 4	0.01	-0.05	0.14	0.47							
P 5	0.00	0.00	-0.02	0.07	0.45						
P 6	0.00	0.00	0.00	-0.02	0.15	0.08					
T 1	0.26	0.29	-0.08	0.01	0.01	0.00	0.48				
T 2	0.00	-0.04	-0.11	0.02	0.02	-0.01	0.01	0.03			
T 3	-0.02	0.02	-0.20	0.06	0.07	-0.02	0.03	0.06	0.20		
T 4	-0.01	-0.03	0.03	0.41	0.09	-0.03	0.02	0.05	0.14	0.40	
T 5	0.00	0.00	0.01	0.02	-0.39	-0.16	0.00	0.00	0.00	0.02	
	P 1	P 2	P 3	P 4	P 5	P 6	T 1	T 2	T 3	T 4	

SECOND PART OF RESOLUTION MATRIX:

T 5	0.37	
	T 5	


RP21
10 4
1000
100
1
10
100
1000
SPACING (m)

DATA SET: RP22

CLIENT: ITGE
LOCATION: ALGAR
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 28-05-92
SOUNDING: RP22
AZIMUTH: N-20-W
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 5.265 PERCENT

#	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	1547.7		0.713	-0.713	4.611E-04
2	3282.1		0.795	-1.50	2.424E-04
3	437.5		3.77	-5.28	0.00864
4	762.0		39.05	-44.34	0.0512
5	106.9		39.07	-83.41	0.365
6	1067.6				

ALL PARAMETERS ARE FREE

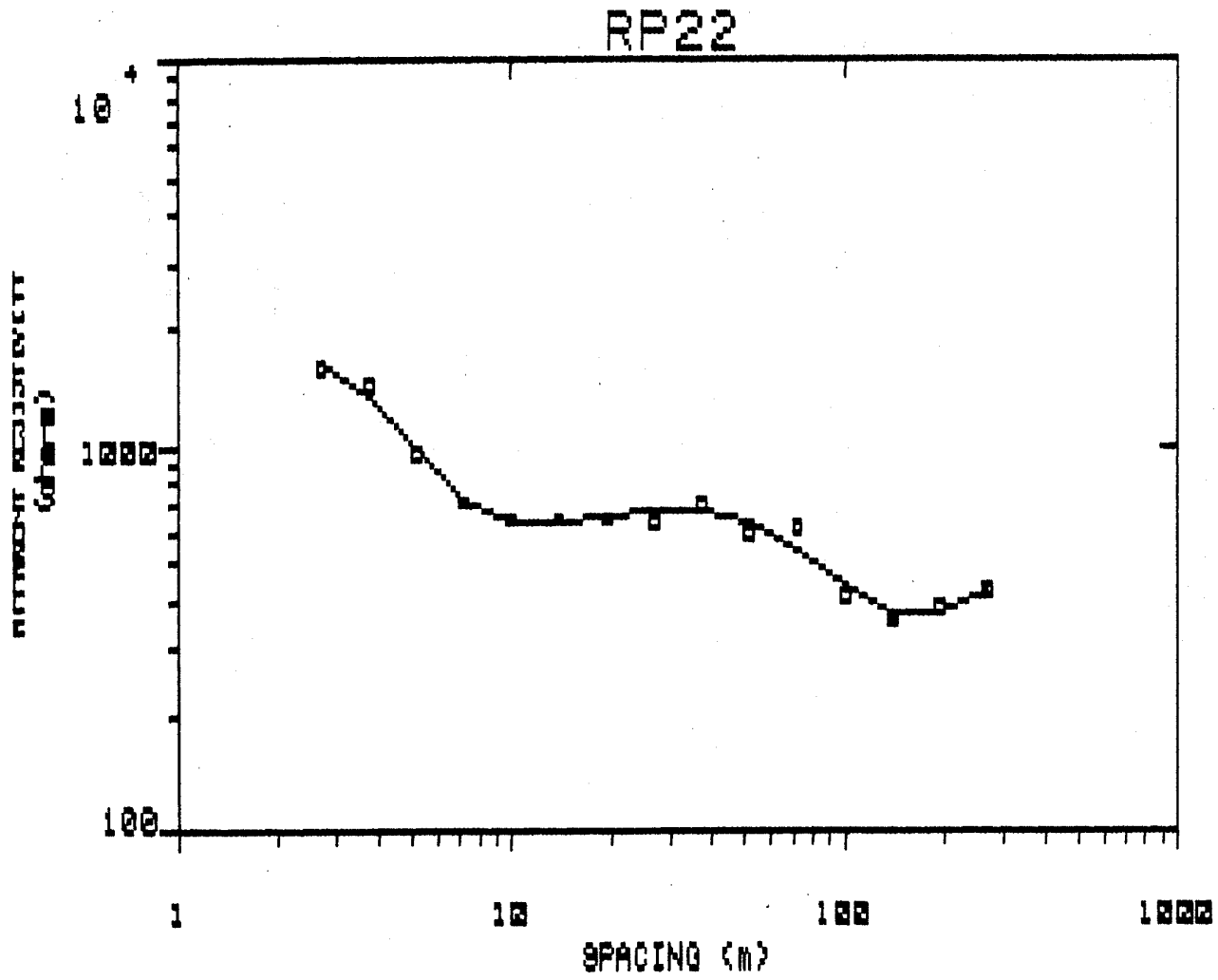
No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	1594.2	1649.8	-3.48
2	3.73	1442.9	1348.4	6.54
3	5.18	965.5	992.4	-2.78
4	7.20	713.3	733.4	-2.81
5	10.00	651.2	632.4	2.87
6	13.90	649.4	632.8	2.55
7	19.30	650.0	660.6	-1.63
8	26.80	635.0	679.4	-6.99
9	37.30	702.0	673.1	4.10
10	51.80	596.0	629.3	-5.60
11	72.00	612.0	542.7	11.31
12	100.0	412.0	436.1	-5.86
13	139.0	352.0	363.7	-3.33
14	193.0	383.0	365.6	4.52
15	268.0	423.0	429.6	-1.56

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER

	P 1	P 2	P 3	P 4	P 5	P 6	T 1	T 2	T 3	T 4
P 1	0.67									
P 2	0.21	0.55								
P 3	-0.01	0.00	0.83							
P 4	0.00	0.01	-0.01	0.99						
P 5	0.00	0.00	0.00	-0.01	0.50					
P 6	0.00	-0.01	0.00	0.02	0.11	0.37				
T 1	-0.38	0.08	0.07	-0.01	0.00	0.01	0.33			
T 2	-0.02	0.43	0.05	0.00	0.00	0.01	0.22	0.42		
T 3	-0.03	0.01	-0.30	-0.04	-0.02	0.05	0.08	0.07	0.34	
T 4	0.01	-0.01	0.03	0.02	0.09	-0.09	0.01	0.00	0.10	0.94
T 5	0.00	0.00	0.00	0.00	-0.46	-0.17	0.00	0.00	0.01	0.05

SECOND PART OF RESOLUTION MATRIX:

	T 5
T 5	0.46


RP22
10 4
1000
100
1
10
100
1000
SPACING (m)

DATA SET: RP23

CLIENT: ITGE
LOCATION: ALGAR
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 28-05-92
SOUNDING: RP23
AZIMUTH: N-20-W
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 5.806 PERCENT

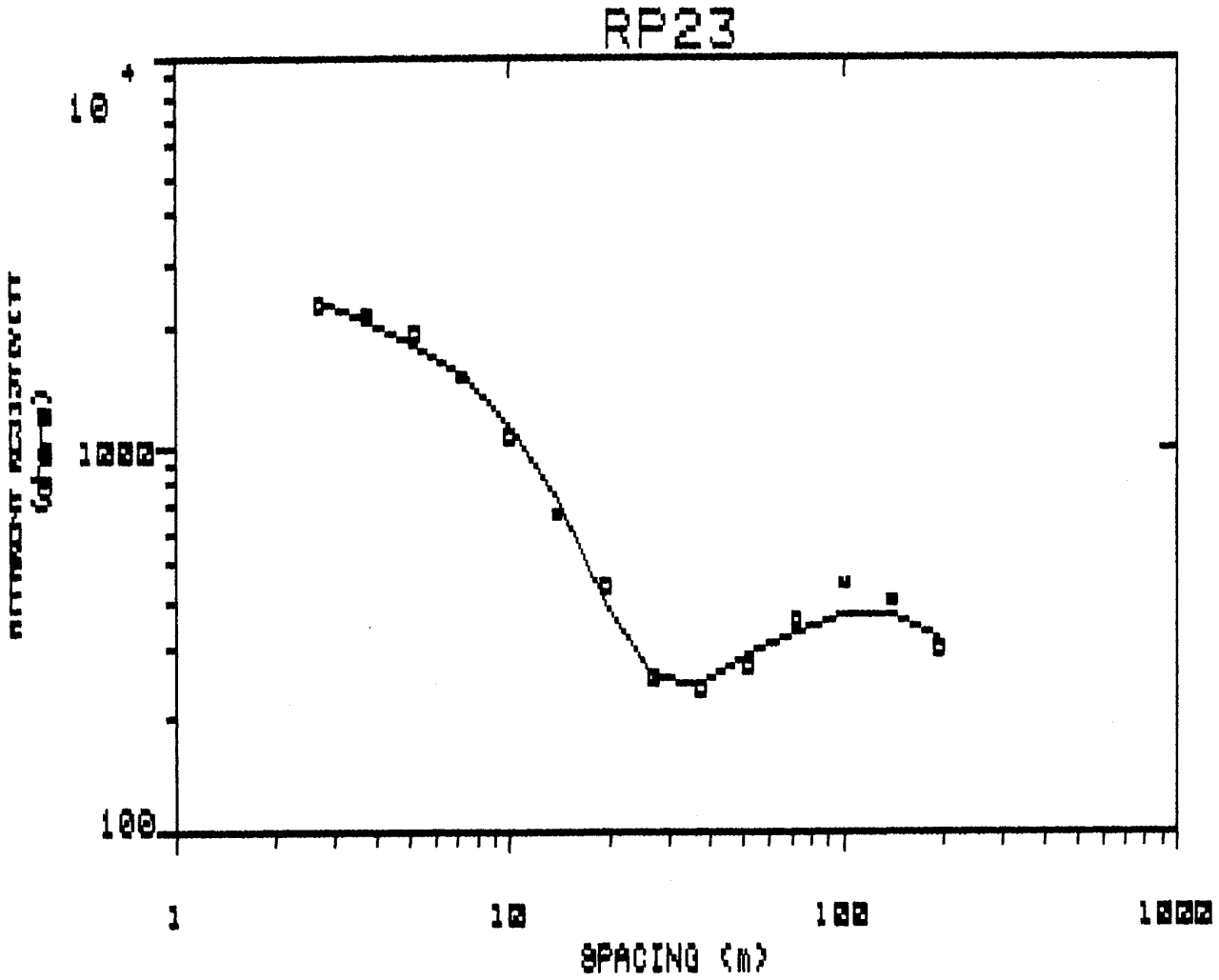
L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	2878.9		1.37	-1.37	4.781E-04
2	1758.0		4.90	-6.28	0.00279
3	146.7		19.70	-25.98	0.134
4	1401.1		30.71	-56.69	0.0219
5	72.14				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	2305.4	2403.4	-4.25
2	3.73	2218.4	2135.2	3.75
3	5.18	1950.0	1844.2	5.42
4	7.20	1521.9	1520.2	0.109
5	10.00	1070.2	1132.7	-5.83
6	13.90	673.9	717.6	-6.49
7	19.30	439.0	401.1	8.62
8	26.80	254.0	257.3	-1.32
9	37.30	235.0	244.3	-3.97
10	51.80	270.0	285.9	-5.92
11	72.00	358.0	337.3	5.76
12	100.0	442.0	372.7	15.66
13	139.0	404.0	371.5	8.03
14	193.0	303.0	323.3	-6.71

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER

	P 1	P 2	P 3	P 4	P 5	T 1	T 2	T 3	T 4
P 1	0.53								
P 2	0.10	0.70							
P 3	0.00	-0.04	0.57						
P 4	0.00	0.01	0.05	0.40					
P 5	0.00	0.00	0.00	0.08	0.02				
T 1	0.17	0.22	0.02	0.00	0.00	0.14			
T 2	-0.15	0.15	0.12	-0.02	0.00	0.11	0.77		
T 3	0.00	-0.01	-0.39	-0.06	0.01	0.01	0.07	0.38	
T 4	0.00	0.00	0.01	0.38	0.08	0.00	-0.01	-0.02	0.37


RP23
10 4
1000
100
1
10
100
1000
SPACING (m)

DATA SET: RP24

CLIENT: ITGE
LOCATION: ALGAR
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 28-05-92
SOUNDING: RP24
AZIMUTH: N-20-W
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 7.284 PERCENT

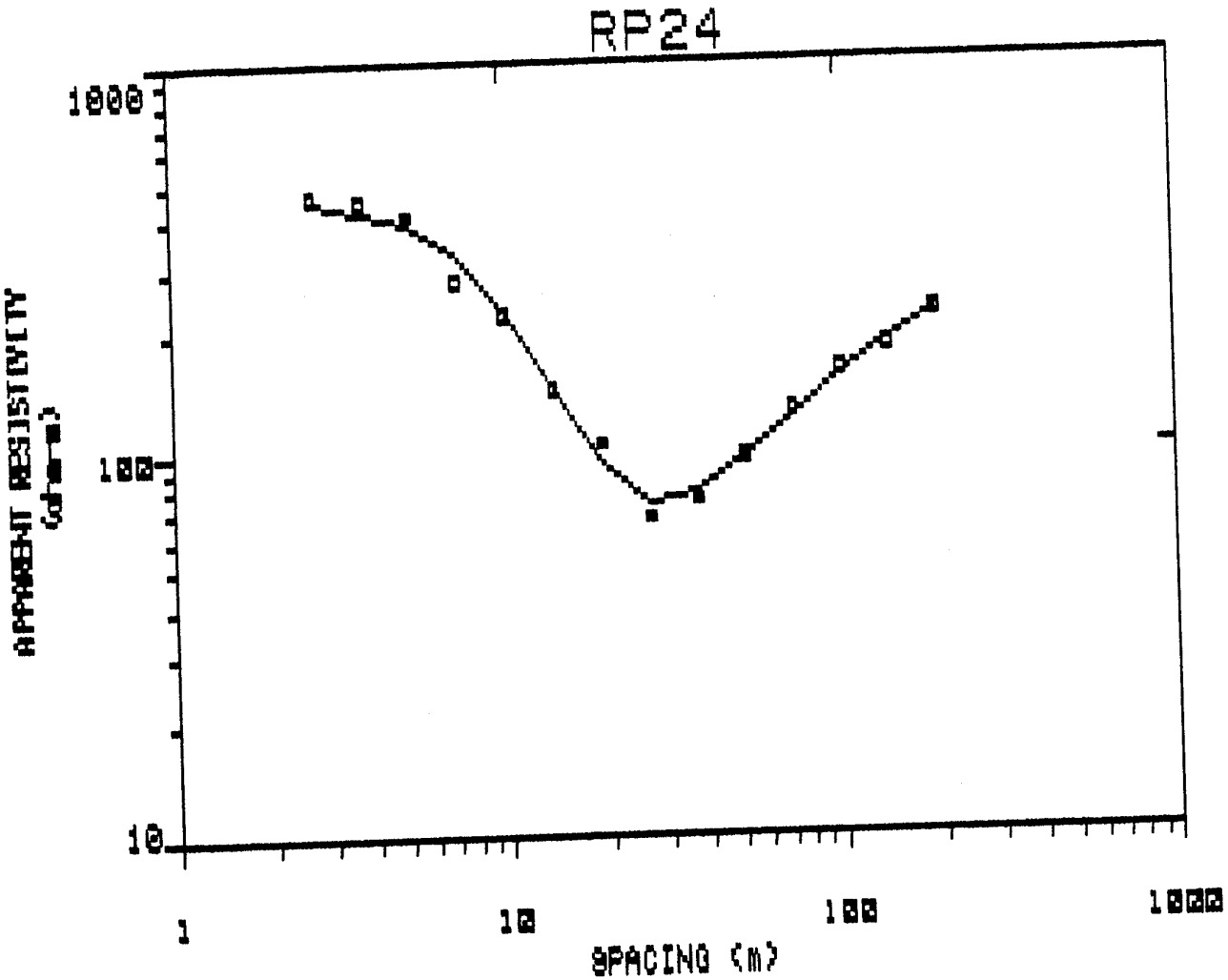
L. #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	450.9		4.91	-4.91	0.0108
2	51.33		22.83	-27.75	0.444
3	415.6				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	459.0	439.1	4.32
2	3.73	441.0	421.9	4.32
3	5.18	411.0	385.8	6.12
4	7.20	275.0	321.6	-16.97
5	10.00	223.0	233.2	-4.58
6	13.90	145.0	146.2	-0.827
7	19.30	105.0	91.07	13.26
8	26.80	67.00	72.81	-8.68
9	37.30	74.00	77.87	-5.22
10	51.80	96.00	95.24	0.784
11	72.00	126.0	120.8	4.04
12	100.0	159.0	152.5	4.03
13	139.0	182.0	188.8	-3.77
14	193.0	227.0	227.9	-0.424

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER
P 1 1.00
P 2 0.00 1.00

```
P 3   0.00   0.00   1.00
T 1   0.00   0.00   0.00   1.00
T 2   0.00   0.00   0.00   0.00   1.00
         P 1    P 2    P 3    T 1    T 2
```


RP24
1000
100
10
1
10
100
1000
SPACING (m)

DATA SET: RP25

CLIENT: ITGE
LOCATION: ALGAR
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 1-06-92
SOUNDING: RP25
AZIMUTH: N-20-W
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 1.228 PERCENT

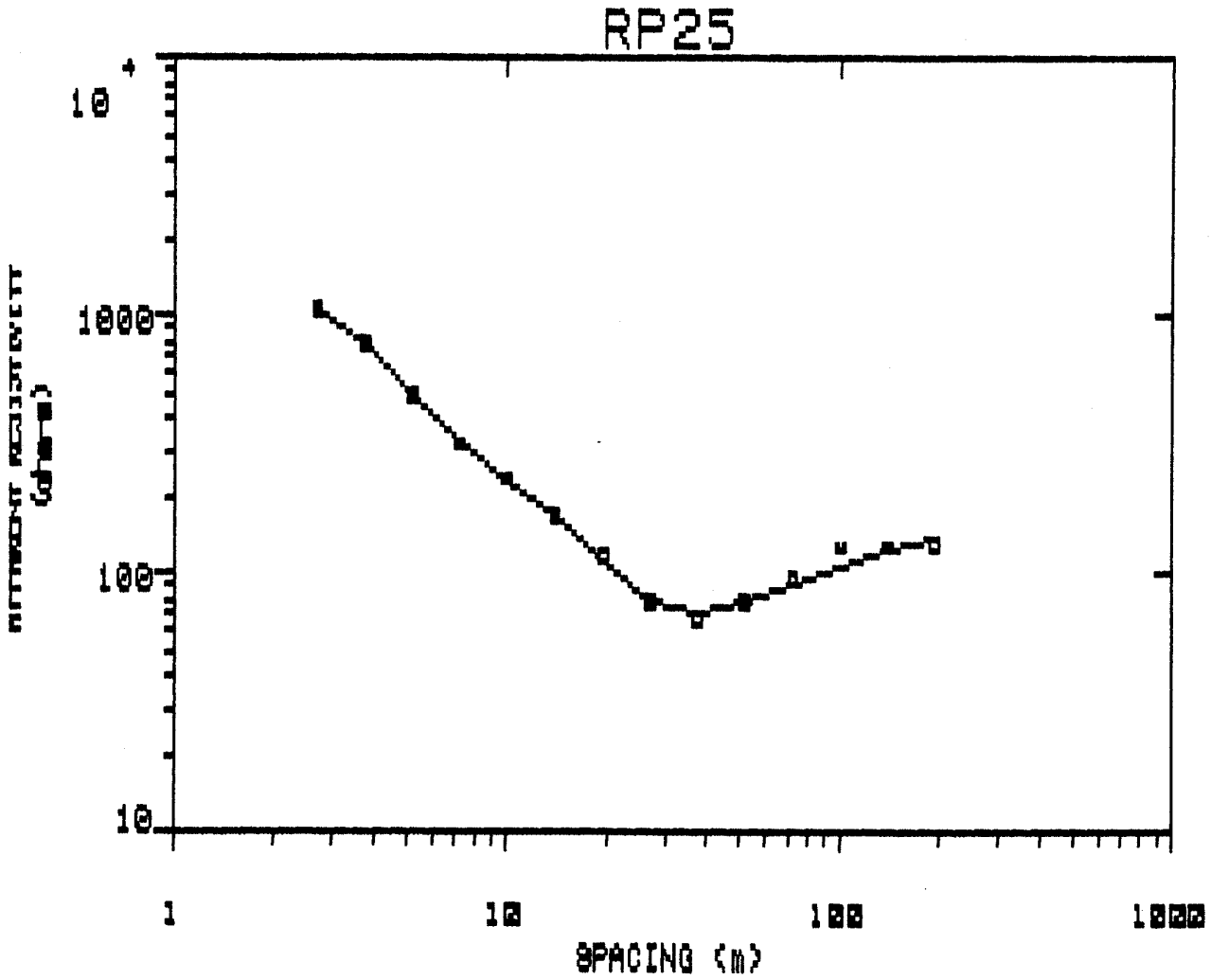
L. #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	1558.5		1.68	-1.68	0.00108
2	248.0		7.25	-8.94	0.0292
3	39.43		22.74	-31.69	0.576
4	472.7				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	1069.8	1079.6	-0.915
2	3.73	793.9	780.0	1.75
3	5.18	501.7	504.2	-0.487
4	7.20	321.3	324.9	-1.11
5	10.00	235.1	231.2	1.64
6	13.90	166.4	168.9	-1.50
7	19.30	117.0	115.1	1.56
8	26.80	78.00	78.89	-1.15
9	37.30	68.00	67.96	0.0578
10	51.80	78.00	77.27	0.929
11	72.00	97.00	98.53	-1.58
12	100.0	128.0	127.2	0.557
13	139.0	128.0	162.2	-26.75
14	193.0	129.0	202.3	-56.87

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER
P 1 1.00

P 2	0.00	1.00					
P 3	0.00	0.00	0.97				
P 4	0.00	0.00	-0.03	0.95			
T 1	0.00	0.00	0.00	0.00	1.00		
T 2	0.00	0.00	0.01	0.01	0.00	1.00	
T 3	0.00	-0.01	-0.04	-0.04	0.00	0.01	0.95
	P 1	P 2	P 3	P 4	T 1	T 2	T 3


RP25
10 4
1000
100
10
1
10
100
1000
SPACING (m)

DATA SET: RP26

CLIENT: ITGE
LOCATION: ESTIVELLA
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
DATE: 2-6-92
SOUNDING: RP26
AZIMUTH: N-20-E
EQUIPMENT: ADARO
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

Schlumberger Configuration

FITTING ERROR: 0.908 PERCENT

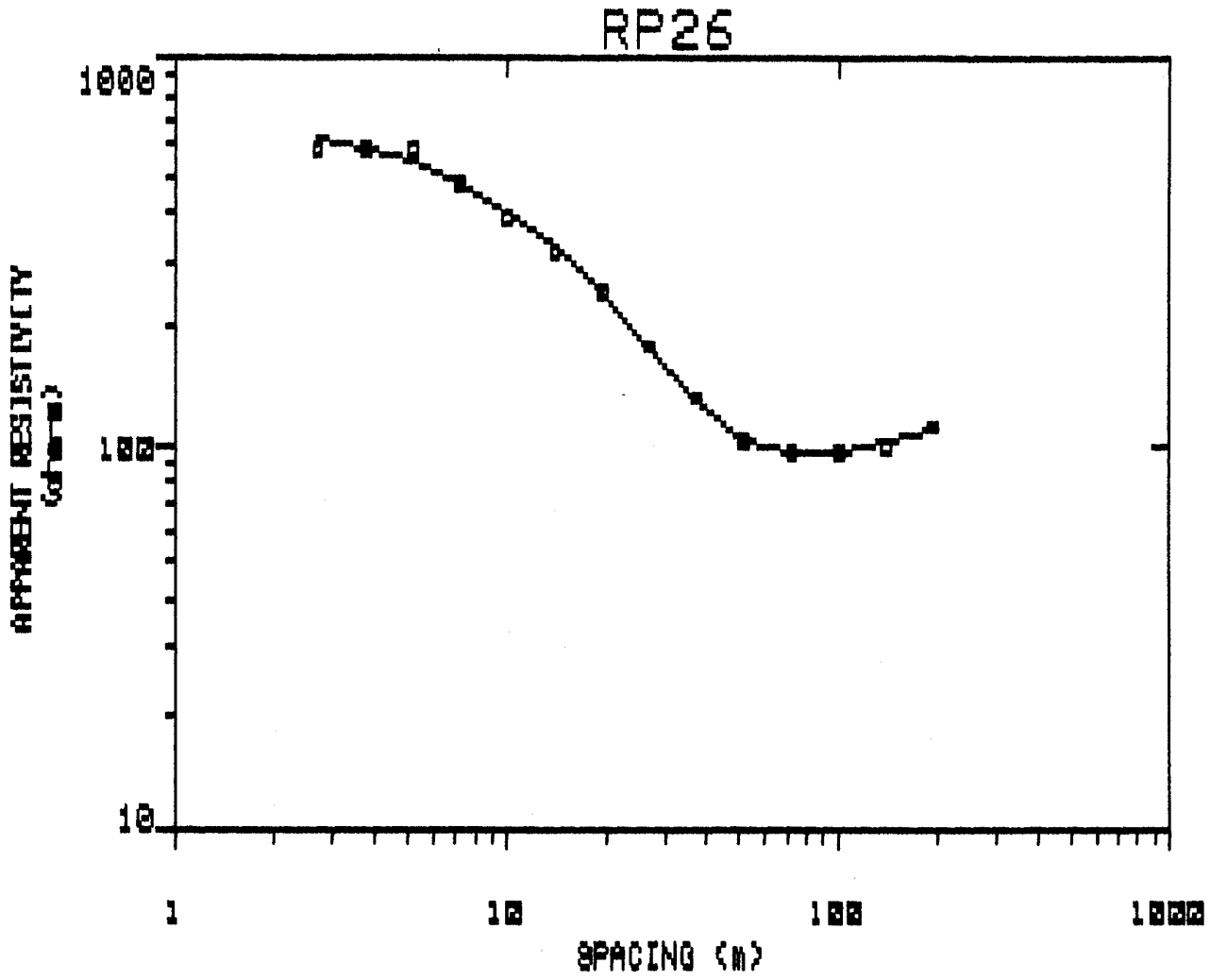
L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	859.1		2.34	-2.34	0.00272
2	350.0		9.36	-11.70	0.0267
3	84.94		90.96	-102.6	1.07
4	186.5				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	590.3	775.1	-31.31
2	3.73	578.6	695.5	-20.19
3	5.18	588.1	588.5	-0.0604
4	7.20	479.4	478.7	0.137
5	10.00	389.6	389.4	0.0520
6	13.90	315.7	317.7	-0.640
7	19.30	251.3	248.6	1.05
8	26.80	179.0	181.2	-1.24
9	37.30	132.0	130.0	1.51
10	51.80	102.0	103.5	-1.54
11	72.00	95.00	94.78	0.231
12	100.0	96.00	94.95	1.09
13	139.0	100.0	100.8	-0.875
14	193.0	112.0	111.7	0.206

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER
P 1 1.00

P 2	0.00	1.00					
P 3	0.00	0.00	1.00				
P 4	0.00	0.00	0.00	0.90			
T 1	0.01	0.00	0.00	0.01	0.99		
T 2	0.00	0.00	0.00	0.00	0.00	1.00	
T 3	0.00	0.00	0.00	-0.08	0.01	0.00	0.92
	P 1	P 2	P 3	P 4	T 1	T 2	T 3


RP26
1000
100
10
1
10
100
1000
SPACING (m)

DATA SET: RP27

CLIENT: ITGE
LOCATION: ESTIVELLA
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 2-6-92
SOUNDING: RP27
AZIMUTH: N-20-E
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 2.253 PERCENT

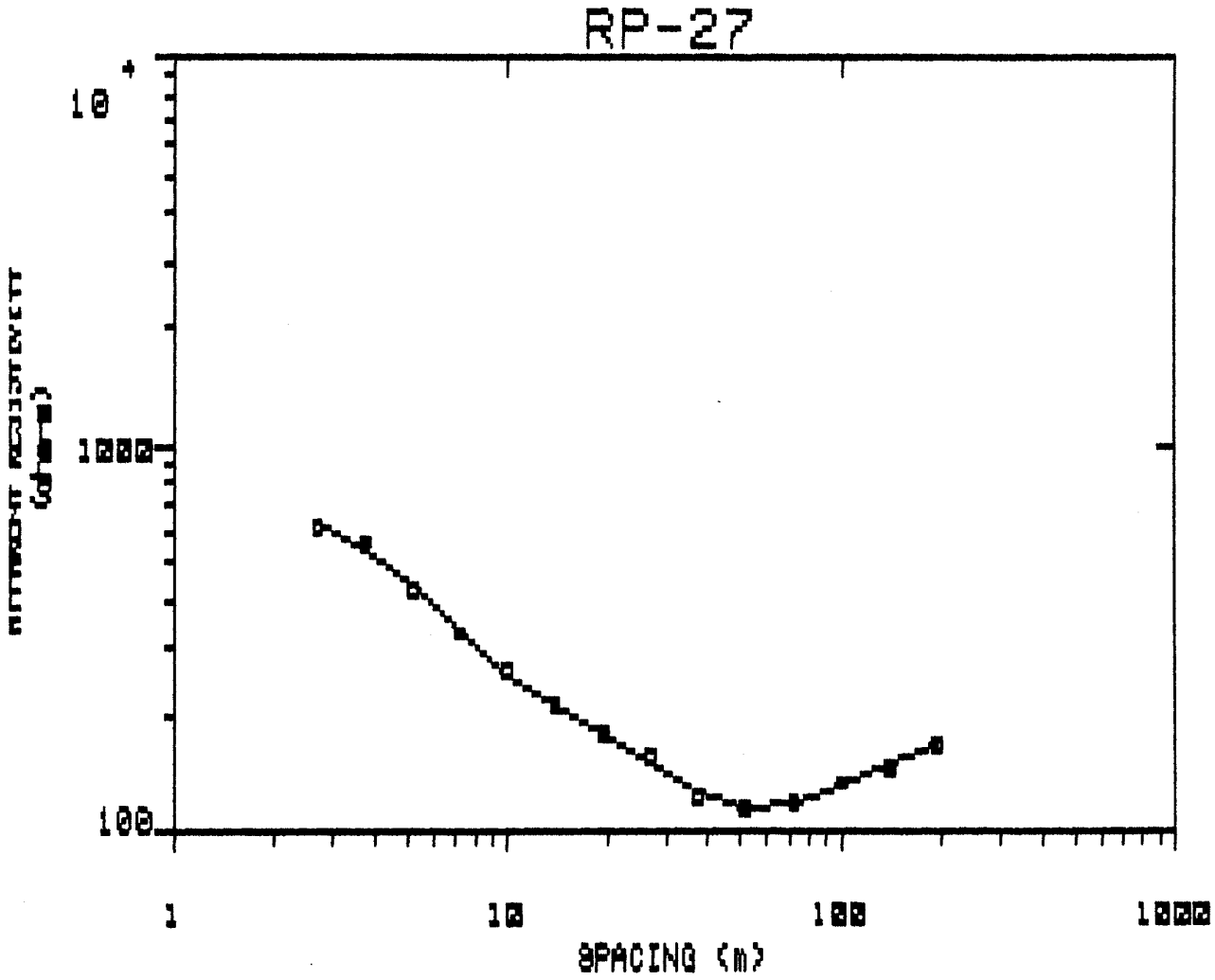
L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	727.0		2.25	-2.25	0.00310
2	216.7		10.82	-13.08	0.0499
3	84.84		31.70	-44.78	0.373
4	210.6				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	615.8	630.6	-2.40
2	3.73	567.1	543.3	4.19
3	5.18	424.5	432.3	-1.85
4	7.20	326.2	328.7	-0.739
5	10.00	259.6	257.7	0.729
6	13.90	215.2	215.0	0.0891
7	19.30	179.3	182.4	-1.70
8	26.80	156.0	151.2	3.05
9	37.30	123.0	126.4	-2.79
10	51.80	116.0	115.6	0.332
11	72.00	120.0	119.3	0.572
12	100.0	135.0	132.5	1.81
13	139.0	144.0	149.4	-3.78
14	193.0	169.0	165.9	1.82

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER
P 1 1.00

P 2	0.00	1.00					
P 3	0.00	0.00	0.99				
P 4	0.00	0.00	0.00	1.00			
T 1	0.00	0.00	0.00	0.00	1.00		
T 2	0.00	0.00	0.01	0.00	0.00	0.99	
T 3	0.00	0.00	-0.01	-0.01	0.00	0.01	0.97
	P 1	P 2	P 3	P 4	T 1	T 2	T 3


RP-27
10 +
1000
100
1
10
100
1000
SPACING (m)

DATA SET: RP28

CLIENT: ITGE
LOCATION: ESTIVELLA
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 2-6-92
SOUNDING: RP28
AZIMUTH: N-20-E
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 1.826 PERCENT

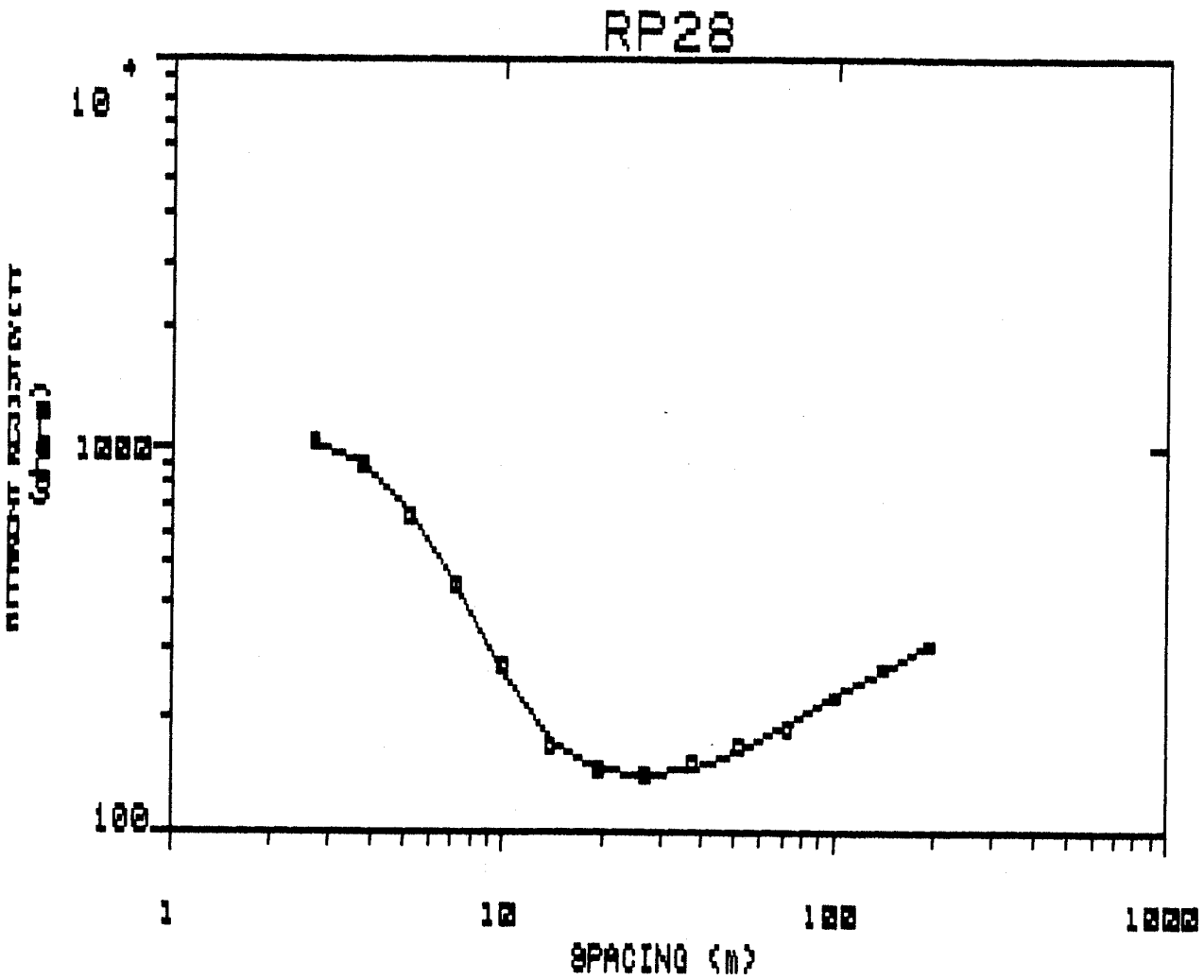
L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	1134.7		2.89	-2.89	0.00255
2	130.1		34.85	-37.74	0.267
3	437.4				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	1016.0	1013.8	0.207
2	3.73	891.0	880.8	1.13
3	5.18	662.0	676.9	-2.25
4	7.20	441.0	444.2	-0.735
5	10.00	274.0	263.9	3.65
6	13.90	168.0	173.6	-3.38
7	19.30	146.0	145.9	0.0380
8	26.80	141.0	142.1	-0.850
9	37.30	152.0	148.4	2.36
10	51.80	167.0	164.3	1.57
11	72.00	187.0	191.1	-2.22
12	100.0	226.0	226.6	-0.270
13	139.0	267.0	266.4	0.203
14	193.0	307.0	306.1	0.287

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER
P 1 1.00
P 2 0.00 1.00

P 3	0.00	0.00	1.00		
T 1	0.00	0.00	0.00	1.00	
T 2	0.00	0.00	0.00	0.00	1.00
	P 1	P 2	P 3	T 1	T 2


RP28
10 +
1000
100
1
10
100
1000
SPACING (m)

DATA SET: RP29

CLIENT: ITGE
LOCATION: ESTIVELLA
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 2-6-92
SOUNDING: RP29
AZIMUTH: N-20-E
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 5.590 PERCENT

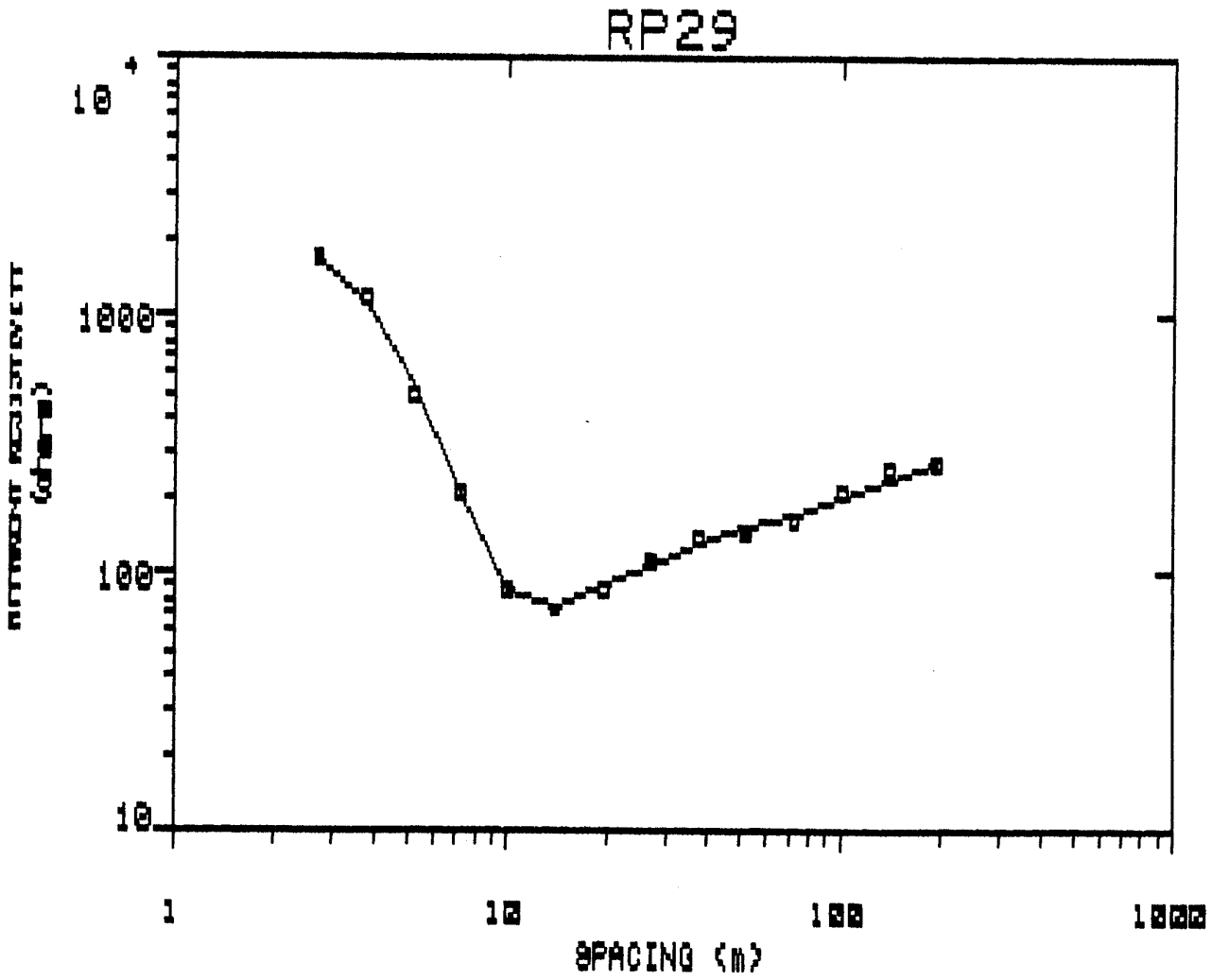
L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	2561.4		1.84	-1.84	7.192E-04
2	43.08		5.99	-7.83	0.139
3	190.8		43.51	-51.34	0.227
4	422.6				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	PA (ohm-m) SYNTHETIC	DIFFERENCE (percent)
1	2.68	1706.0	1702.0	0.233
2	3.73	1175.0	1113.2	5.25
3	5.18	501.0	549.5	-9.68
4	7.20	210.0	203.0	3.29
5	10.00	88.00	85.89	2.39
6	13.90	72.00	75.65	-5.08
7	19.30	86.00	89.36	-3.90
8	26.80	115.0	107.3	6.60
9	37.30	138.0	127.5	7.55
10	51.80	142.0	148.9	-4.91
11	72.00	160.0	173.2	-8.25
12	100.0	205.0	202.0	1.45
13	139.0	251.0	235.9	5.98
14	193.0	265.0	272.8	-2.94

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER
P 1 1.00

P 2	0.00	0.98					
P 3	0.00	-0.01	0.99				
P 4	0.00	-0.01	-0.01	0.98			
T 1	0.00	0.00	0.00	0.00	1.00		
T 2	0.00	-0.03	-0.02	-0.01	0.00	0.95	
T 3	0.00	-0.02	-0.03	-0.05	0.00	-0.04	0.89
	P 1	P 2	P 3	P 4	T 1	T 2	T 3


RP29
10^4
1000
100
10
1
10
100
1000
SPACING (m)

DATA SET: RP30

CLIENT: ITGE
LOCATION: ESTIVELLA
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 2-6-92
SOUNDING: RP30
AZIMUTH: N-20-E
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 3.591 PERCENT

L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	271.7		2.25	-2.25	0.00830
2	91.89		7.95	-10.20	0.0865
3	223.2		25.60	-35.81	0.114
4	1047.4		36.16	-71.98	0.0345
5	44.73				

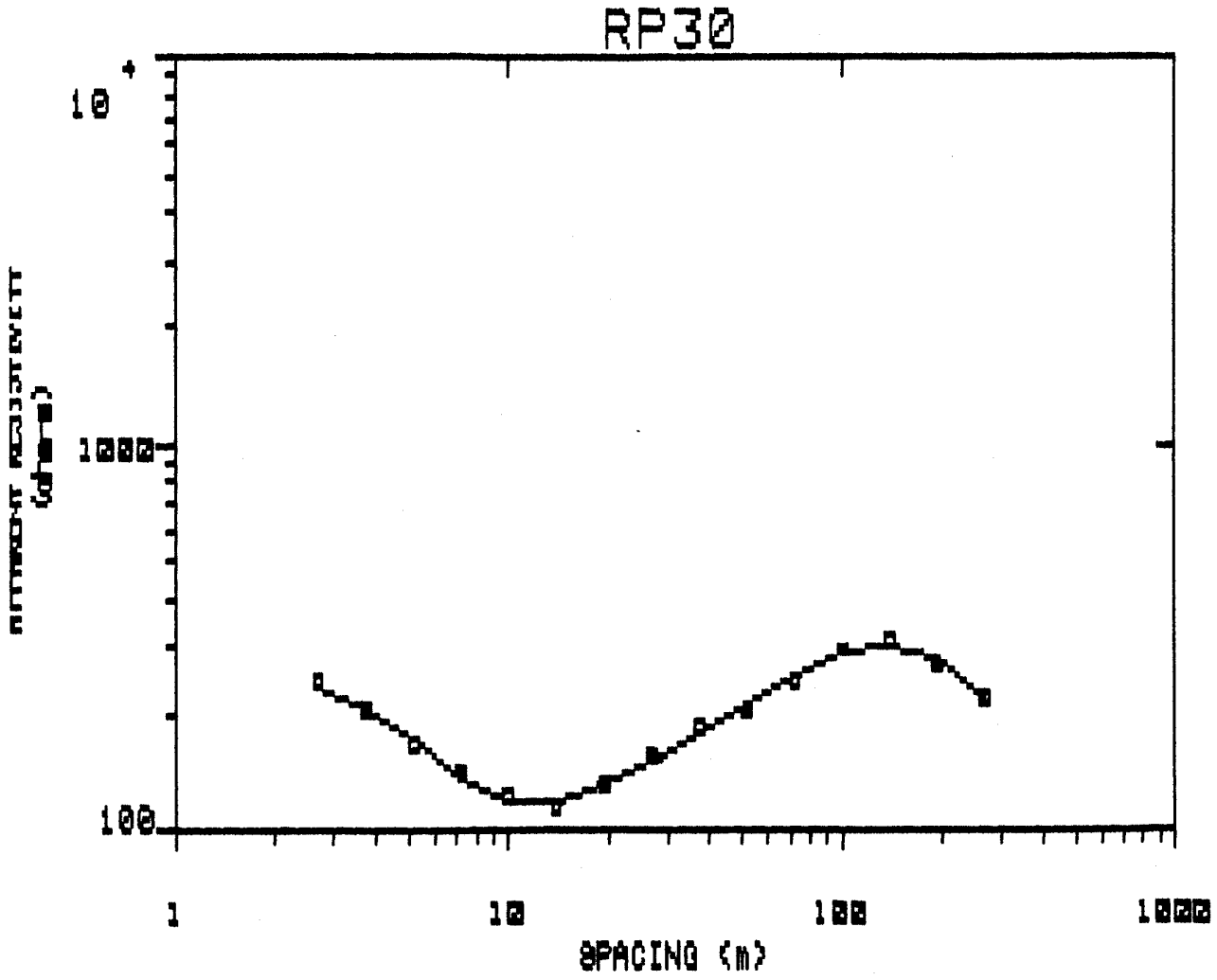
ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	PA (ohm-m) SYNTHETIC	DIFFERENCE (percent)
1	2.68	244.7	238.7	2.44
2	3.73	204.7	209.1	-2.15
3	5.18	166.6	172.0	-3.23
4	7.20	143.8	139.1	3.22
5	10.00	124.7	121.5	2.57
6	13.90	115.2	120.9	-4.99
7	19.30	132.0	133.3	-1.03
8	26.80	160.0	154.1	3.63
9	37.30	188.0	181.3	3.52
10	51.80	203.0	214.5	-5.69
11	72.00	243.0	252.4	-3.90
12	100.0	297.0	286.1	3.64
13	139.0	314.0	299.5	4.59
14	193.0	267.0	277.7	-4.03
15	268.0	220.0	219.7	0.121

PARAMETER RESOLUTION MATRIX:

"F" INDICATES FIXED PARAMETER

P 1	1.00								
P 2	0.00	0.98							
P 3	0.00	-0.03	0.87						
P 4	0.00	0.00	-0.01	0.55					
P 5	0.00	0.01	0.09	0.00	0.48				
T 1	0.00	0.01	0.02	0.00	-0.01	0.99			
T 2	-0.01	-0.05	-0.15	0.00	0.07	0.04	0.80		
T 3	0.00	-0.01	-0.08	-0.11	0.11	0.00	-0.06	0.91	
T 4	0.00	0.00	0.02	0.47	0.09	0.00	0.02	0.11	0.48
	P 1	P 2	P 3	P 4	P 5	T 1	T 2	T 3	T 4


RP30
10 4
1000
100
1
10
100
1000
SPACING (m)

DATA SET: RP31

CLIENT: ITGE
LOCATION: ALGAR
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 2-6-92
SOUNDING: RP31
AZIMUTH: N-20-E
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 3.460 PERCENT

L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	1181.1		1.51	-1.51	0.00128
2	139.2		7.35	-8.86	0.0527
3	1682.4		10.89	-19.75	0.00647
4	1879.7		19.89	-39.65	0.0105
5	305.3				

ALL PARAMETERS ARE FREE

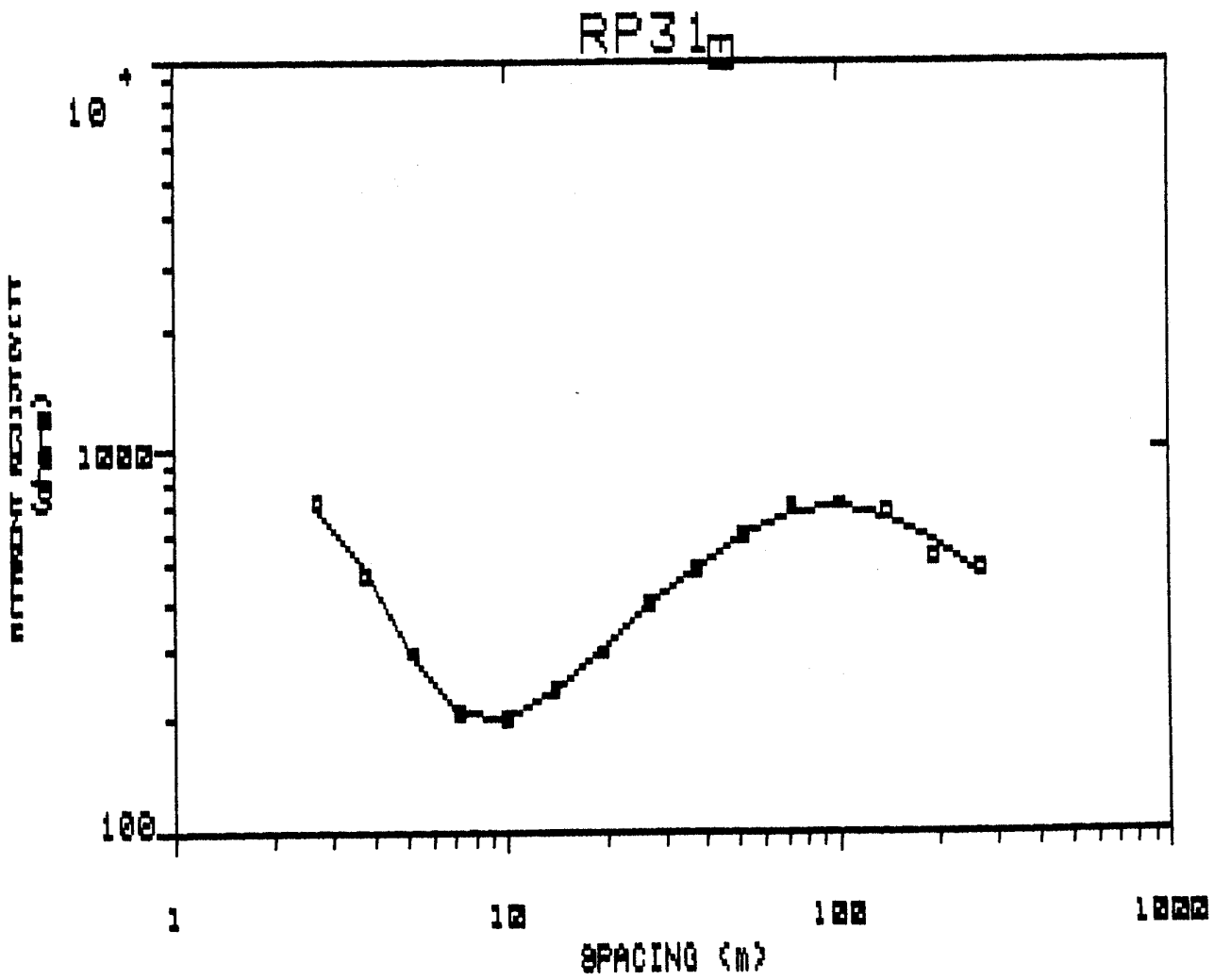
No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	722.3	719.2	0.428
2	3.73	471.8	478.8	-1.47
3	5.18	295.2	293.4	0.618
4	7.20	208.1	207.5	0.309
5	10.00	200.6	200.5	0.0867
6	13.90	235.5	237.4	-0.827
7	19.30	294.4	302.4	-2.71
8	26.80	392.0	388.4	0.904
9	37.30	481.0	488.7	-1.60
10	51.80	596.0	589.3	1.12
11	72.00	714.0	669.4	6.23
12	100.0	720.0	701.4	2.56
13	139.0	683.0	666.7	2.38
14	193.0	524.0	574.3	-9.60
15	268.0	486.0	464.6	4.38

PARAMETER RESOLUTION MATRIX:

* ADARO *

"F" INDICATES FIXED PARAMETER

P 1	0.96								
P 2	-0.03	0.96							
P 3	-0.02	-0.05	0.26						
P 4	-0.01	-0.01	0.27	0.51					
P 5	0.00	0.01	-0.03	0.00	0.92				
T 1	0.03	0.02	0.02	0.01	0.00	0.98			
T 2	-0.03	-0.06	-0.17	0.01	0.01	0.03	0.90		
T 3	0.01	0.01	0.01	0.13	0.06	-0.01	0.04	0.08	
T 4	0.01	0.01	0.11	0.35	0.10	-0.01	0.04	0.15	0.33
	P 1	P 2	P 3	P 4	P 5	T 1	T 2	T 3	T 4


RP31m
10 +
1000
100
1
10
100
1000
SPACING (m)

DATA SET: RP32

CLIENT: ITGE
LOCATION: ESTIVELLA
COUNTY: VALENNCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 2-06-92
SOUNDING: RP32
AZIMUTH: N-50-E
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 4.679 PERCENT

L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	1761.6		1.63	-1.63	9.300E-04
2	200.6		7.32	-8.96	0.0365
3	63.08		11.64	-20.61	0.184
4	985.9		27.52	-48.14	0.0279
5	133.0		73.48	-121.6	0.552
6	1142.7				

ALL PARAMETERS ARE FREE

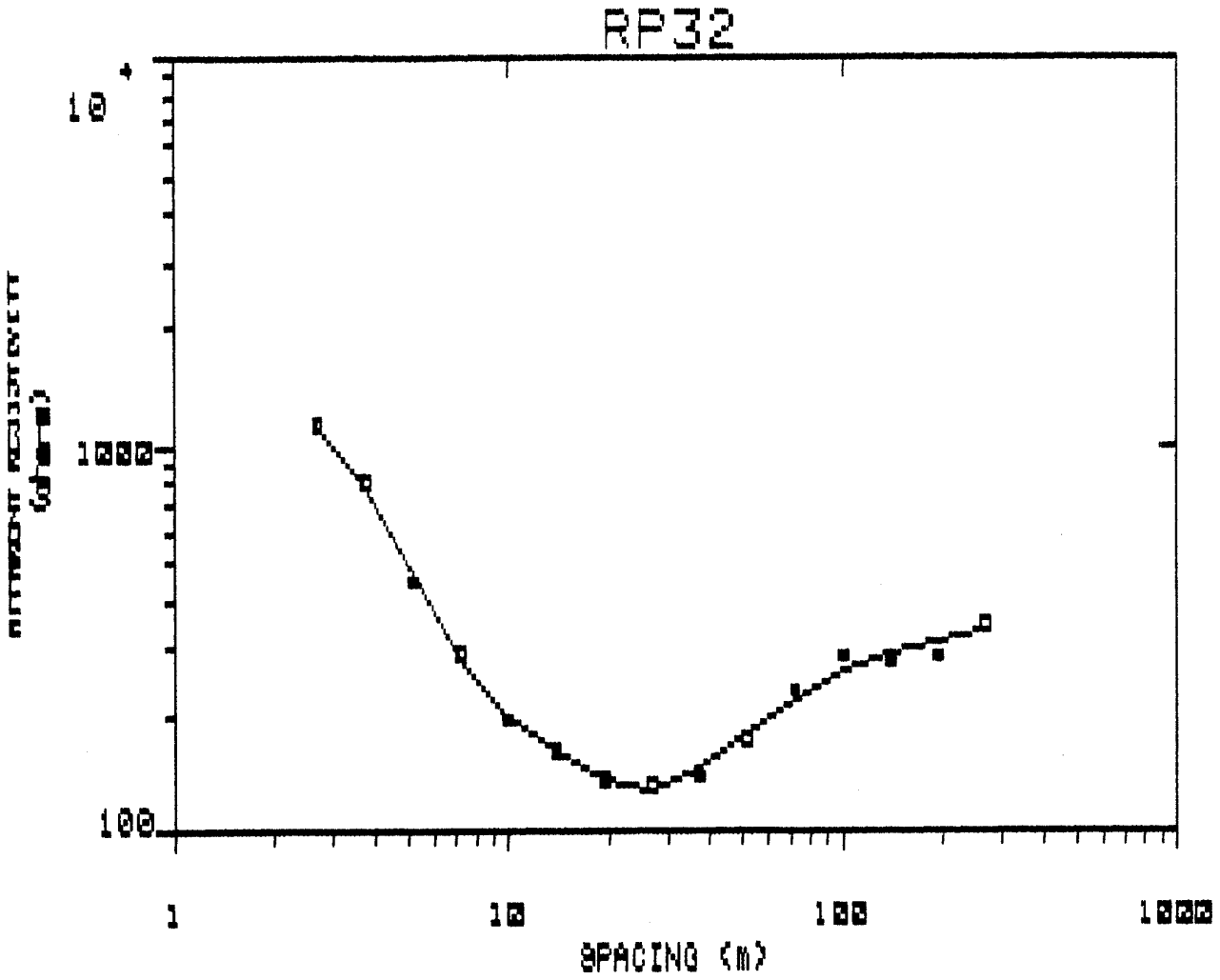
No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	1133.0	1146.3	-1.18
2	3.73	808.0	782.0	3.21
3	5.18	447.0	465.4	-4.13
4	7.20	289.0	279.4	3.29
5	10.00	196.0	200.7	-2.40
6	13.90	163.0	162.5	0.286
7	19.30	138.0	137.2	0.546
8	26.80	132.0	130.2	1.35
9	37.30	140.0	147.0	-5.03
10	51.80	173.0	181.0	-4.65
11	72.00	234.0	221.2	5.42
12	100.0	286.0	258.5	9.58
13	139.0	275.0	287.3	-4.49
14	193.0	287.0	308.0	-7.33
15	268.0	347.0	332.1	4.26

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER

P 1	0.97									
P 2	-0.02	0.96								
P 3	0.00	-0.02	0.63							
P 4	0.00	0.01	0.00	0.49						
P 5	0.00	-0.01	0.00	0.12	0.47					
P 6	0.00	0.00	0.00	-0.03	0.16	0.07				
T 1	0.02	0.02	0.01	-0.01	0.00	0.00	0.98			
T 2	0.02	0.05	0.18	-0.03	0.02	0.00	-0.02	0.86		
T 3	-0.01	-0.03	-0.42	-0.07	0.02	0.00	0.01	0.20	0.50	
T 4	0.00	0.00	-0.03	0.43	0.10	-0.03	0.00	0.00	0.00	0.39
T 5	0.00	0.00	0.00	0.01	-0.41	-0.16	0.00	-0.01	-0.01	0.02
	P 1	P 2	P 3	P 4	P 5	P 6	T 1	T 2	T 3	T 4

SECOND PART OF RESOLUTION MATRIX:

T 5	0.39	
	T 5	


RP32
10 +
1000
100
1
10
100
1000
SPACING (m)

DATA SET: RP33

CLIENT: ITGE
LOCATION: ESTIVELLA
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 2-06-92
SOUNDING: RP33
AZIMUTH: N-50-E
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 6.588 PERCENT

L #	RESISTIVITY (ohm-m)	CHARGEABILITY (mfo)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	228.4		2.23	-2.23	0.00977
2	85.87		19.31	-21.54	0.224
3	162.8		9.44	-30.99	0.0580
4	299.7		17.60	-48.60	0.0587
5	116.5		34.26	-82.86	0.294
6	1534.8				

ALL PARAMETERS ARE FREE

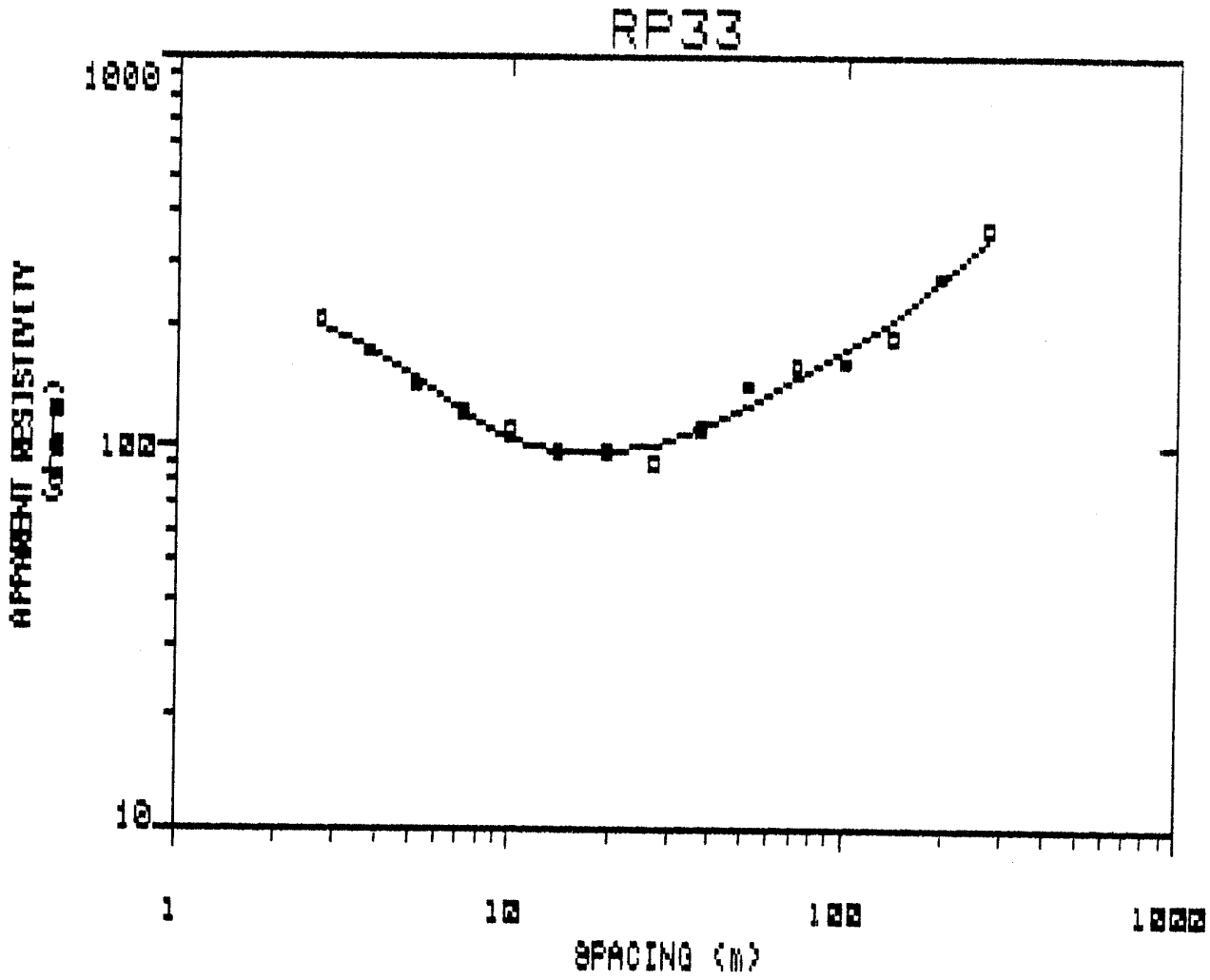
No.	Spacing (m)	PA (ohm-m) DATA	PA (ohm-m) SYNTHETIC	DIFFERENCE (percent)
1	2.68	210.0	202.1	3.74
2	3.73	174.0	178.5	-2.60
3	5.18	142.0	148.6	-4.71
4	7.20	122.0	121.1	0.721
5	10.00	111.0	103.2	6.98
6	13.90	95.00	95.45	-0.480
7	19.30	96.00	94.81	1.23
8	26.80	89.00	99.85	-12.19
9	37.30	109.0	110.9	-1.77
10	51.80	141.0	127.7	9.41
11	72.00	161.0	149.1	7.35
12	100.0	163.0	175.4	-7.65
13	139.0	190.0	211.7	-11.44
14	193.0	270.0	265.2	1.74
15	268.0	365.0	340.8	6.61

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER

P 1	0.79									
P 2	-0.02	0.90								
P 3	0.01	0.04	0.07							
P 4	0.01	0.02	0.07	0.10						
P 5	0.00	-0.01	0.04	0.09	0.30					
P 6	0.00	-0.01	0.00	0.00	0.11	0.06				
T 1	0.19	0.11	-0.05	-0.03	0.00	0.00	0.58			
T 2	-0.03	-0.12	-0.16	-0.16	-0.15	-0.03	0.13	0.41		
T 3	0.00	-0.01	-0.02	-0.02	-0.05	-0.02	0.01	0.06	0.01	
T 4	0.00	0.01	0.03	0.03	-0.03	-0.03	-0.01	-0.04	0.00	0.03
T 5	0.00	0.01	-0.02	-0.06	-0.29	-0.12	-0.01	0.12	0.05	0.05
	P 1	P 2	P 3	P 4	P 5	P 6	T 1	T 2	T 3	T 4

SECOND PART OF RESOLUTION MATRIX:

T 5	0.29	
	T 5	


RP33
1000
100
10
1
10
100
1000
SPACING (m)

DATA SET: RP34

CLIENT: ITGE
LOCATION: ESTIVELLA
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 2-06-92
SOUNDING: RP34
AZIMUTH: N-72-E
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 3.536 PERCENT

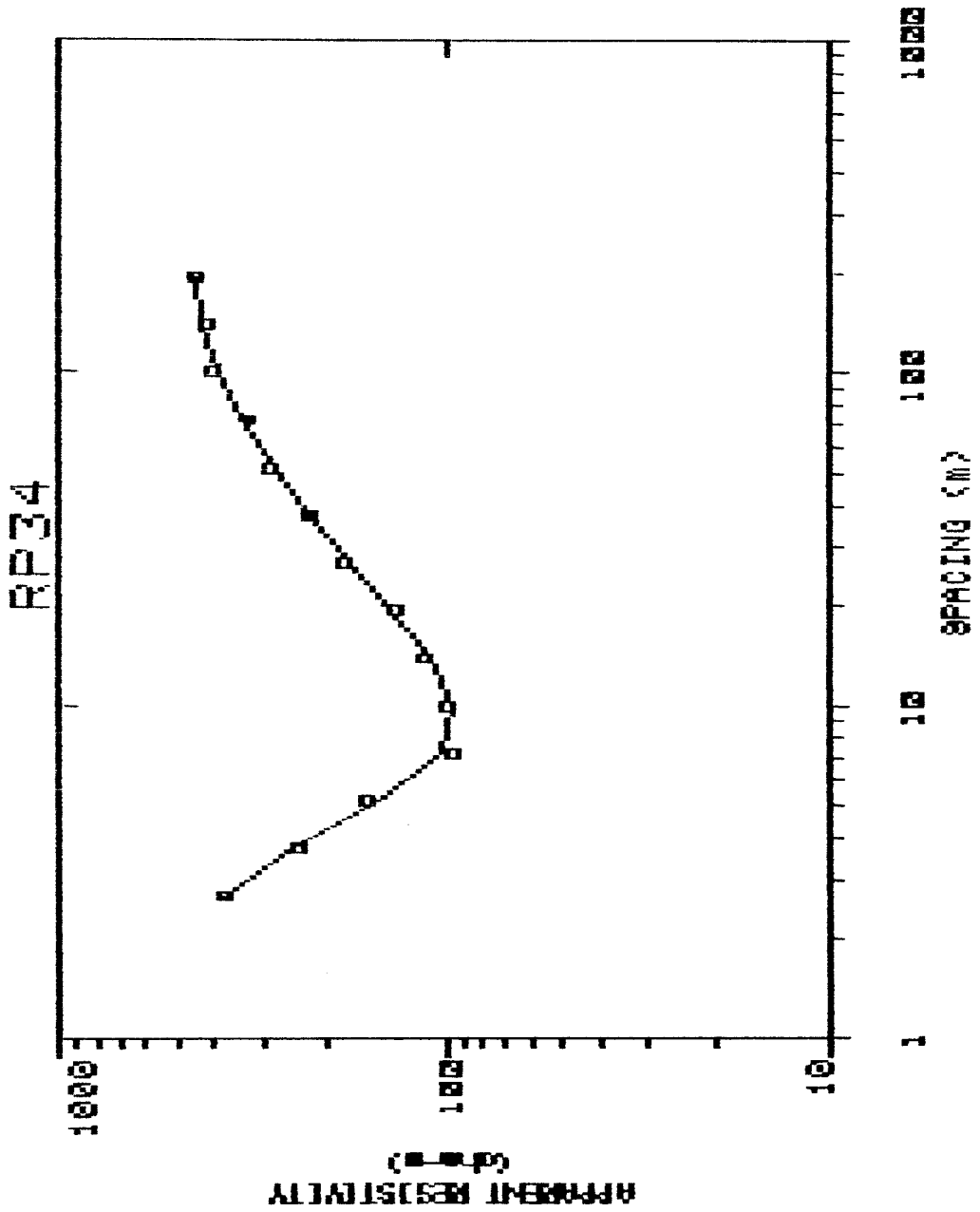
L #	RESISTIVITY (ohm-m)	CHARGEABILITY (mfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	596.8		1.56	-1.56	0.00261
2	67.32		7.42	-8.98	0.110
3	610.0		112.5	-121.5	0.184
4	262.9				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	373.3	371.4	0.504
2	3.73	241.2	248.7	-3.09
3	5.18	159.5	150.5	5.62
4	7.20	96.19	102.5	-6.58
5	10.00	99.25	95.73	3.54
6	13.90	113.7	111.3	2.09
7	19.30	134.0	140.3	-4.74
8	26.80	184.0	179.3	2.51
9	37.30	224.0	226.4	-1.08
10	51.80	285.0	278.8	2.14
11	72.00	320.0	333.9	-4.35
12	100.0	400.0	385.4	3.62
13	139.0	419.0	425.0	-1.45
14	193.0	442.0	442.2	-0.0675

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER
P 1 1.00

P 2	0.00	1.00					
P 3	0.00	0.00	1.00				
P 4	0.00	0.00	-0.01	0.54			
T 1	0.00	0.00	0.00	0.00	1.00		
T 2	0.00	0.00	0.00	0.00	0.00	1.00	
T 3	0.00	0.00	0.02	0.42	0.00	0.01	0.58
	P 1	P 2	P 3	P 4	T 1	T 2	T 3


RP34
APPARENT RESISTIVITY
(ohm-m)
1000
100
10
1
10
100
1000
SPACING (m)

DATA SET: RP35

CLIENT: ITGE
LOCATION: ESTIVELLA
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 2-06-92
SOUNDING: RP35
AZIMUTH: N-52-E
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 7.161 PERCENT

L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	110.0		0.667	-0.667	0.00606
2	4202.5		1.45	-2.12	3.461E-04
3	97.34		2.61	-4.74	0.0269
4	668.5		9.58	-14.32	0.0144
5	75.72		29.01	-43.34	0.383
6	246.2				

ALL PARAMETERS ARE FREE

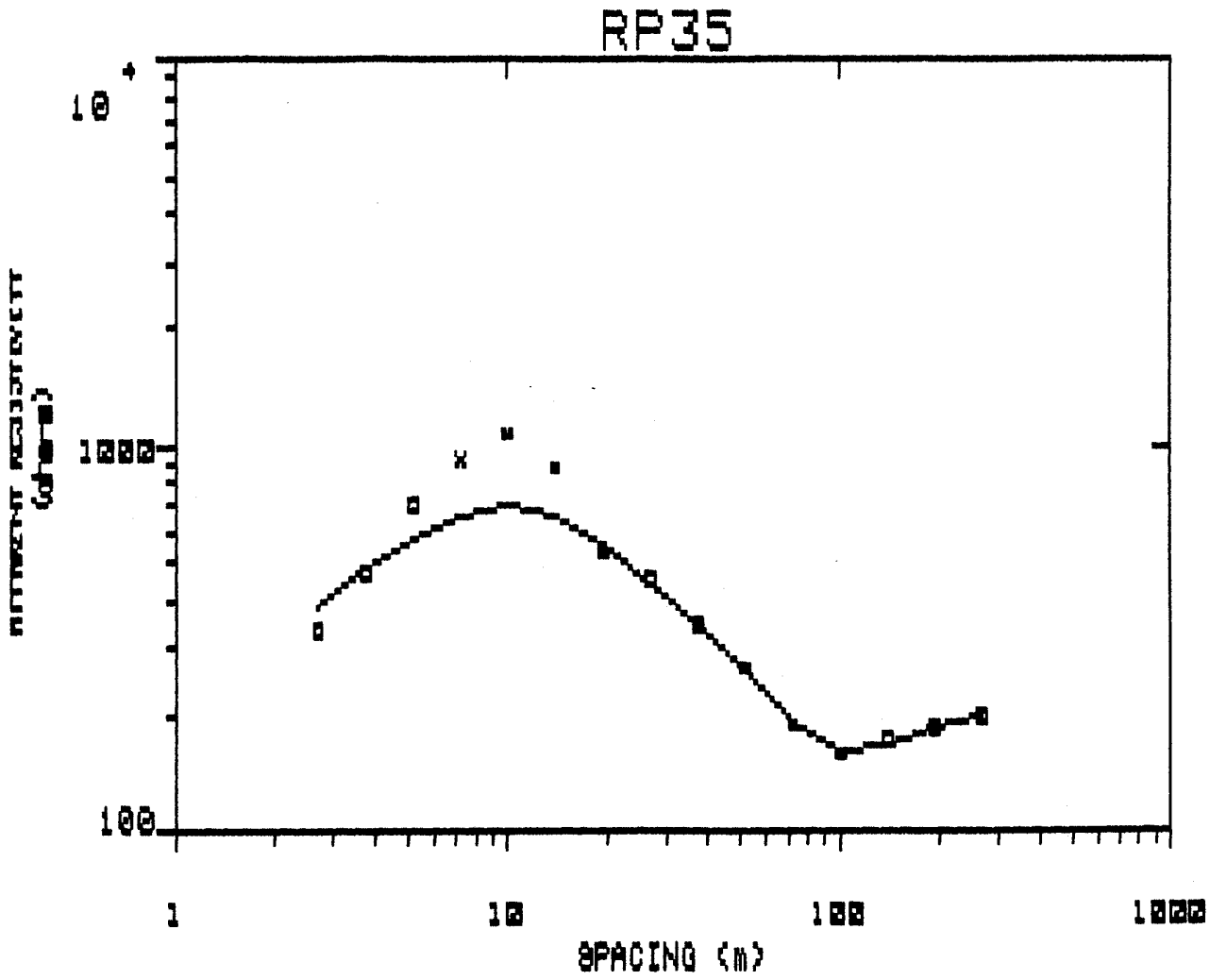
No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	332.8	376.5	-13.13
2	3.73	465.9	479.6	-2.92
3	5.18	701.1	582.2	16.95
4	7.20	924.1	662.4	28.31
5	10.00	1084.1	692.4	36.12
6	13.90	879.2	654.1	25.60
7	19.30	528.2	558.6	-5.75
8	26.80	448.6	445.1	0.789
9	37.30	345.0	344.0	0.275
10	51.80	268.0	259.4	3.20
11	72.00	190.0	194.5	-2.40
12	100.0	160.0	164.6	-2.91
13	139.0	173.0	167.4	3.21
14	193.0	185.0	184.2	0.423
15	268.0	200.0	201.8	-0.921

PARAMETER RESOLUTION MATRIX:
"*" INDICATES FIXED PARAMETER

	P 1	P 2	P 3	P 4	P 5	P 6	T 1	T 2	T 3	T 4
P 1	0.50									
P 2	0.04	.49								
P 3	0.01	.04	0.39							
P 4	0.02	.00	0.10	[illegible]						
P 5	[illegible]	.01	-0.07	0.04	0.63					
P 6	[illegible]	.01	0.02	[illegible]	0.00	0.50				
T 1	-0.[illegible]	.03	0.02	[illegible]	0.00	0.00	0.50			
T 2	-0.[illegible]	.49	0.04	[illegible]	0.02	-0.01	-0.01	0.48		
T 3	[illegible]	.02	-0.39	-0.10	0.08	-0.03	-0.02	-0.02	0.40	
T 4	0.01	.00	-0.09	[illegible]	0.08	-0.02	0.01	0.01	0.10	0.47
T 5	[illegible]	.01	-0.04	[illegible]	-0.43	-0.07	0.00	0.01	0.04	0.07

SECOND PART OF RESOLUTION MATRIX:

	T 5
T 5	0.37


RP35
10⁴
1000
100
1
10
100
1000
SPACING (m)

DATA SET: RP36

CLIENT: ITGE
LOCATION: ESTIVELLA
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 1.06-92
SOUNDING: RP36
AZIMUTH: N-52-E
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 7.278 PERCENT

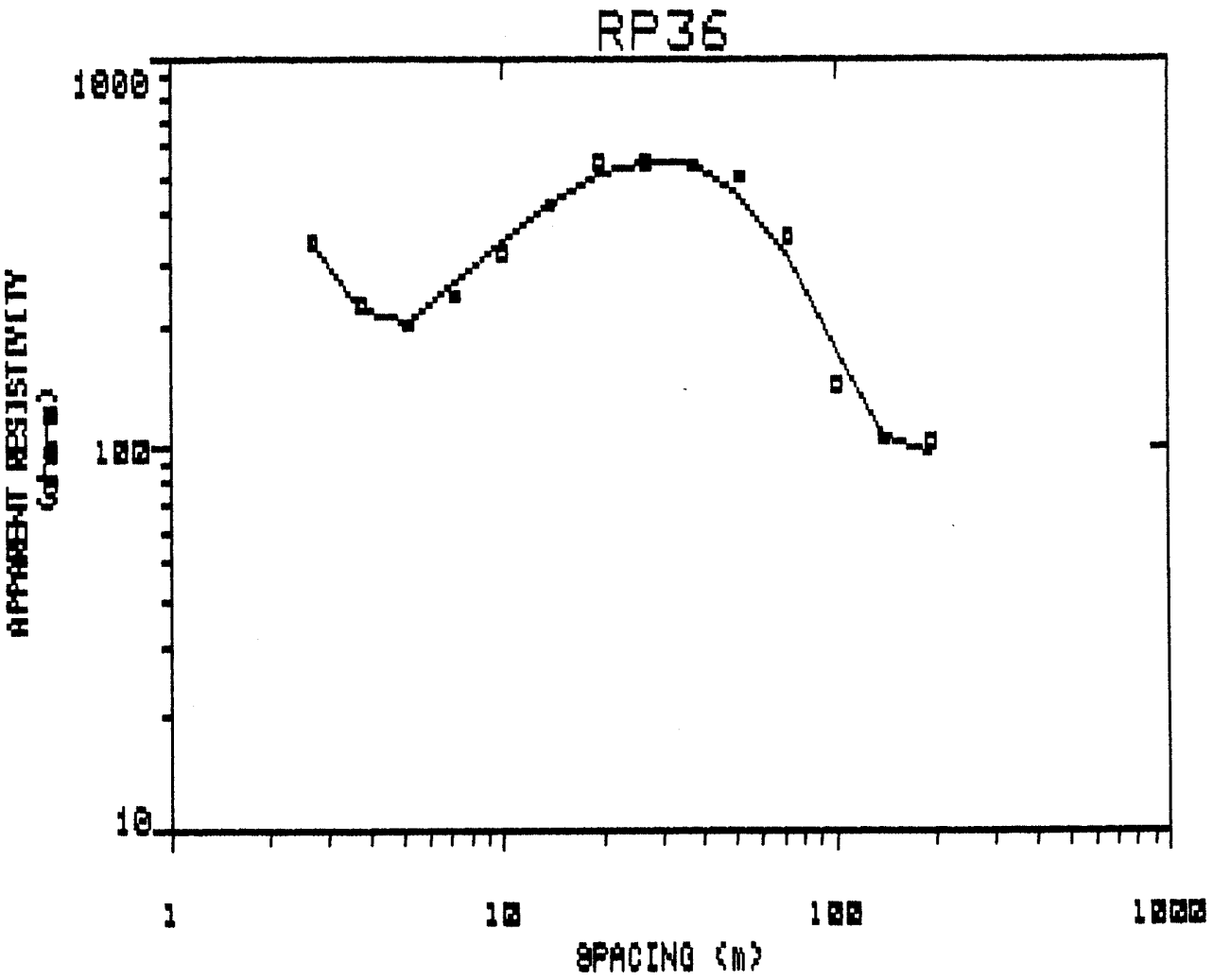
L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	855.7		1.12	-1.12	0.00131
2	26.21		0.619	-1.73	0.0236
3	3298.0		5.42	-7.16	0.00165
4	28.92		28.04	-35.21	0.969
5	138.5				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	335.0	338.4	-1.00
2	3.73	230.9	226.7	1.80
3	5.18	207.2	209.4	-1.05
4	7.20	243.7	257.3	-5.55
5	10.00	318.9	332.3	-4.19
6	13.90	419.9	416.4	0.825
7	19.30	545.5	493.1	9.61
8	26.80	551.0	537.3	2.47
9	37.30	537.0	520.9	2.98
10	51.80	499.0	431.4	13.54
11	72.00	349.0	293.8	15.80
12	100.0	144.0	170.3	-18.29
13	139.0	104.0	106.9	-2.88
14	193.0	102.0	95.97	5.91

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER

P 1	0.19								
P 2	0.04	0.46							
P 3	0.04	0.00	0.47						
P 4	0.04	-0.01	0.05	0.20					
P 5	0.04	0.00	0.01	0.19	0.21				
T 1	0.23	0.02	0.00	0.01	0.00	0.78			
T 2	-0.01	-0.46	-0.02	0.03	0.02	0.00	0.47		
T 3	0.04	0.02	0.47	0.05	0.01	0.00	0.00	0.47	
T 4	0.04	0.00	-0.03	-0.19	-0.19	-0.01	-0.02	-0.03	0.19
	P 1	P 2	P 3	P 4	P 5	T 1	T 2	T 3	T 4


RP36
1000
100
10
1
10
100
1000
SPACING (m)

DATA SET: RP37

CLIENT: ITGE
LOCATION: ESTIVELLA
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 1.06-92
SOUNDING: RP37
AZIMUTH: N-50-E
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 4.044 PERCENT

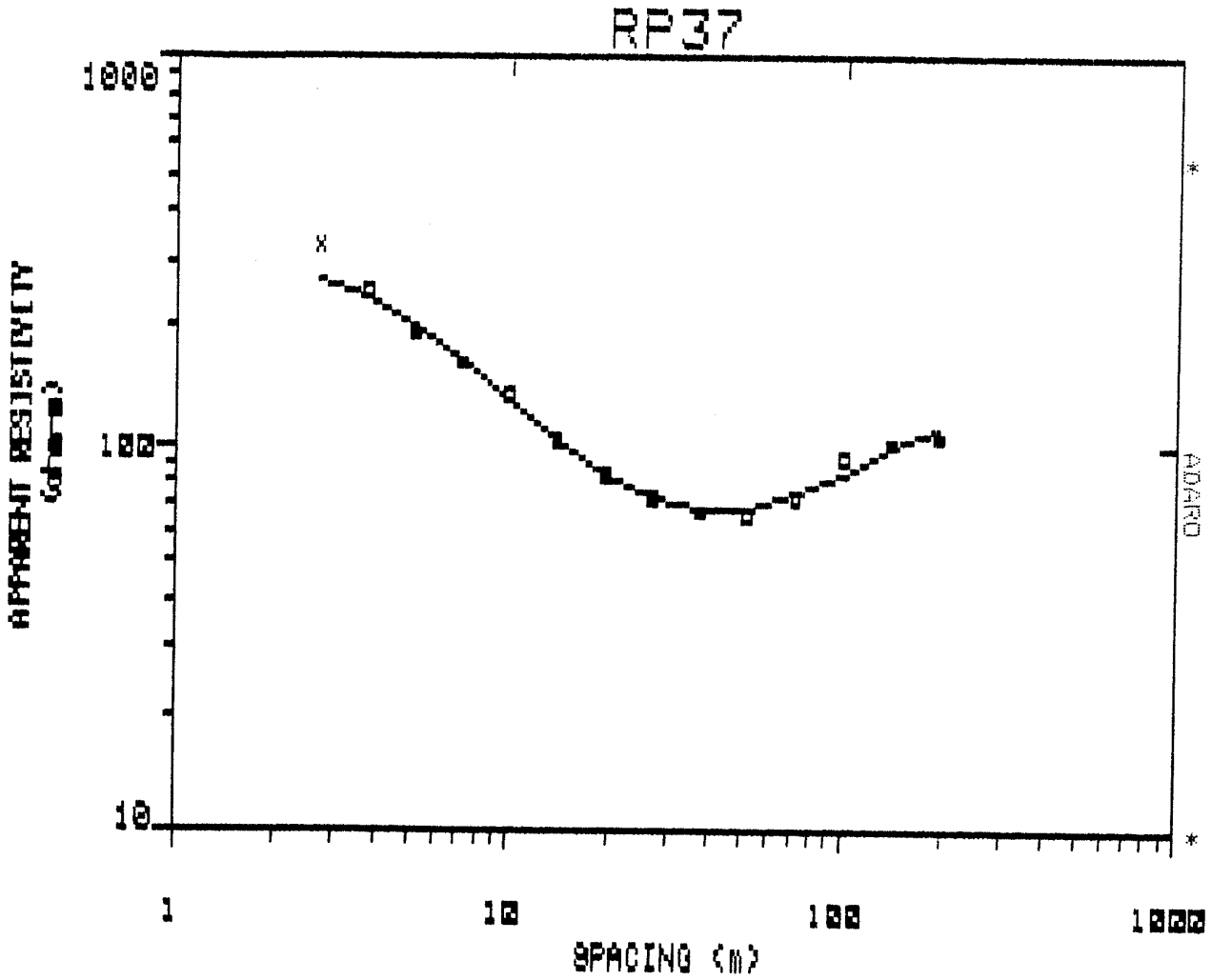
#	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	286.2		2.49	-2.49	0.00871
2	122.0		4.95	-7.44	0.0405
3	59.33		41.70	-49.14	0.702
4	154.4				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	330.1	262.5	20.46
2	3.73	250.5	238.6	4.77
3	5.18	193.9	204.0	-5.21
4	7.20	163.4	165.1	-1.07
5	10.00	134.0	130.4	2.62
6	13.90	102.4	103.1	-0.729
7	19.30	84.00	83.63	0.439
8	26.80	73.00	72.08	1.25
9	37.30	67.00	67.69	-1.03
10	51.80	66.00	68.88	-4.37
11	72.00	73.00	74.85	-2.53
12	100.0	93.00	85.00	8.59
13	139.0	101.0	97.79	3.17
14	193.0	104.0	111.0	-6.76

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER
P 1 0.84

P 2	-0.02	0.49					
P 3	-0.01	0.03	0.88				
P 4	0.01	0.00	0.04	0.45			
T 1	0.15	0.37	0.00	-0.01	0.44		
T 2	-0.06	0.19	0.11	-0.06	0.05	0.22	
T 3	-0.01	0.02	-0.14	-0.30	0.01	0.12	0.33
	P 1	P 2	P 3	P 4	T 1	T 2	T 3


RP37
1000
100
10
1
10
100
1000
SPACING (m)
ADARO

DATA SET: RP38

CLIENT: ITGE
LOCATION: ESTIVELLA
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 1-6 92
SOUNDING: RP38
AZIMUTH: N-50-E
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 2.764 PERCENT

L #	RESISTIVITY (ohm m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	183.4		2.37	-2.37	0.00275
2	131.7		10.14	-12.52	0.0558
3	63.33		92.27	-104.8	1.45
4	23.11		20.11	-124.9	0.216
5	582.3				

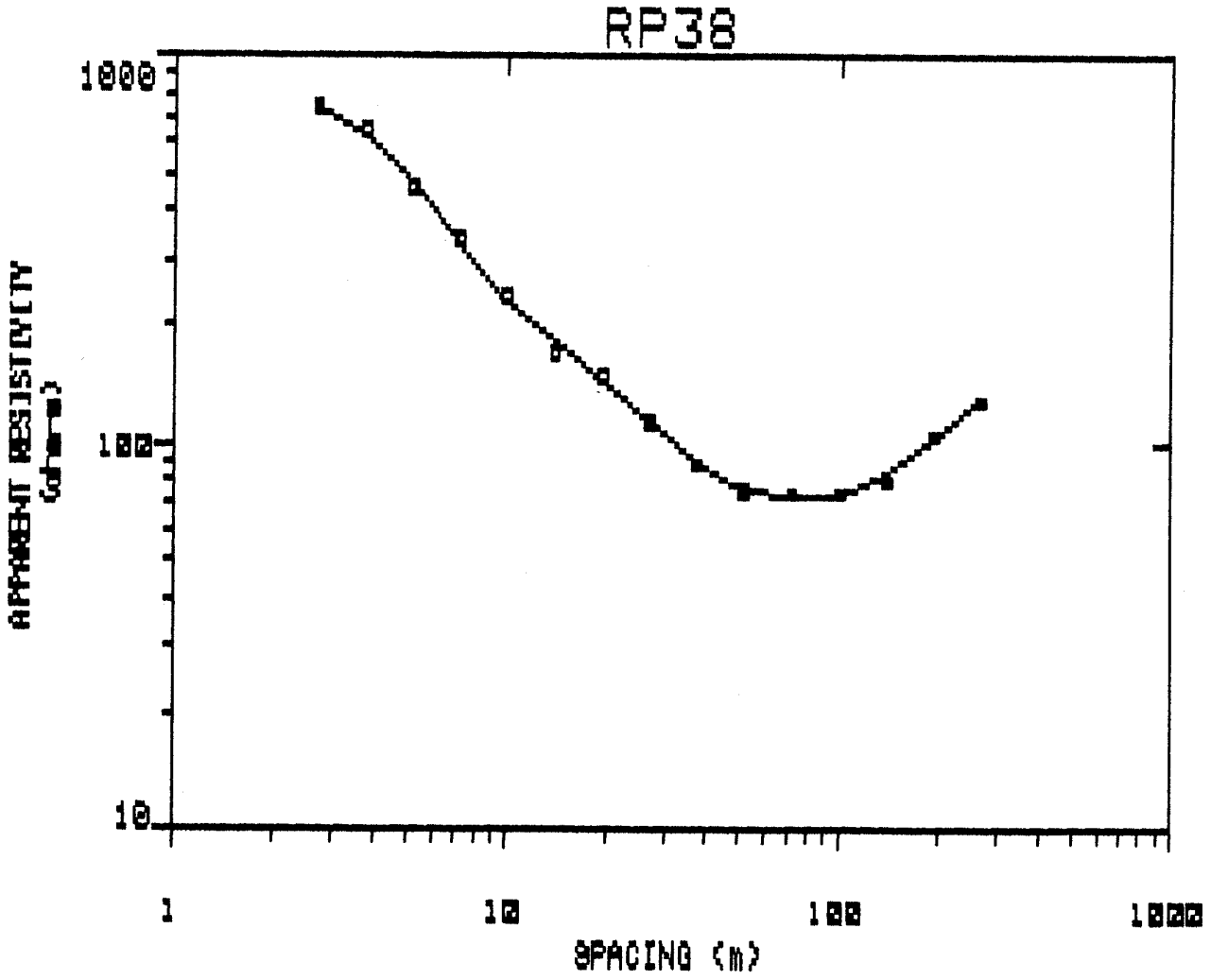
ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	737.6	742.1	-0.334
2	3.79	641.3	627.6	2.20
3	5.18	460.4	476.8	-3.55
4	7.25	336.6	332.2	1.30
5	10.09	229.6	234.1	2.28
6	13.99	172.3	180.3	-4.65
7	19.09	150.0	145.0	3.53
8	26.59	114.0	113.7	0.0494
9	37.59	80.00	89.59	-1.80
10	51.59	76.00	76.08	-0.115
11	72.59	74.00	71.74	3.04
12	100.6	74.00	74.07	-0.107
13	139.7	75.00	83.25	-5.39
14	173.0	105.0	101.0	3.72
15	264.7	128.0	128.5	-0.443

PARAMETER RESOLUTION MATRIX:

[illegible] FIXED PARAMETER
[illegible]
[illegible] 1.00
[illegible] 1.00
[illegible] 0.00 [illegible]
[illegible] 0.00 [illegible] 0.86
[illegible] 0.00 [illegible] 0.00 1.00
[illegible] 0.00 [illegible] 0.01 [illegible] 1.00
[illegible] 0.00 [illegible] -0.04 [illegible] 0.00 0.95
[illegible] 0.00 [illegible] -0.02 [illegible] 0.00 0.14 [illegible]

P 1 P 2 P 3 [illegible] P 5 T 1 T 2 T 3 T [illegible]


RP38
1000
100
10
APPARENT RESISTIVITY
(ohm-m)
1
10
100
1000
SPACING (m)

DATA SET: RP39

CLIENT: ITGE
LOCATION: ESTIVELLA
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 1-6-92
SOUNDING: RP39
AZIMUTH: N-50-E
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 2.585 PERCENT

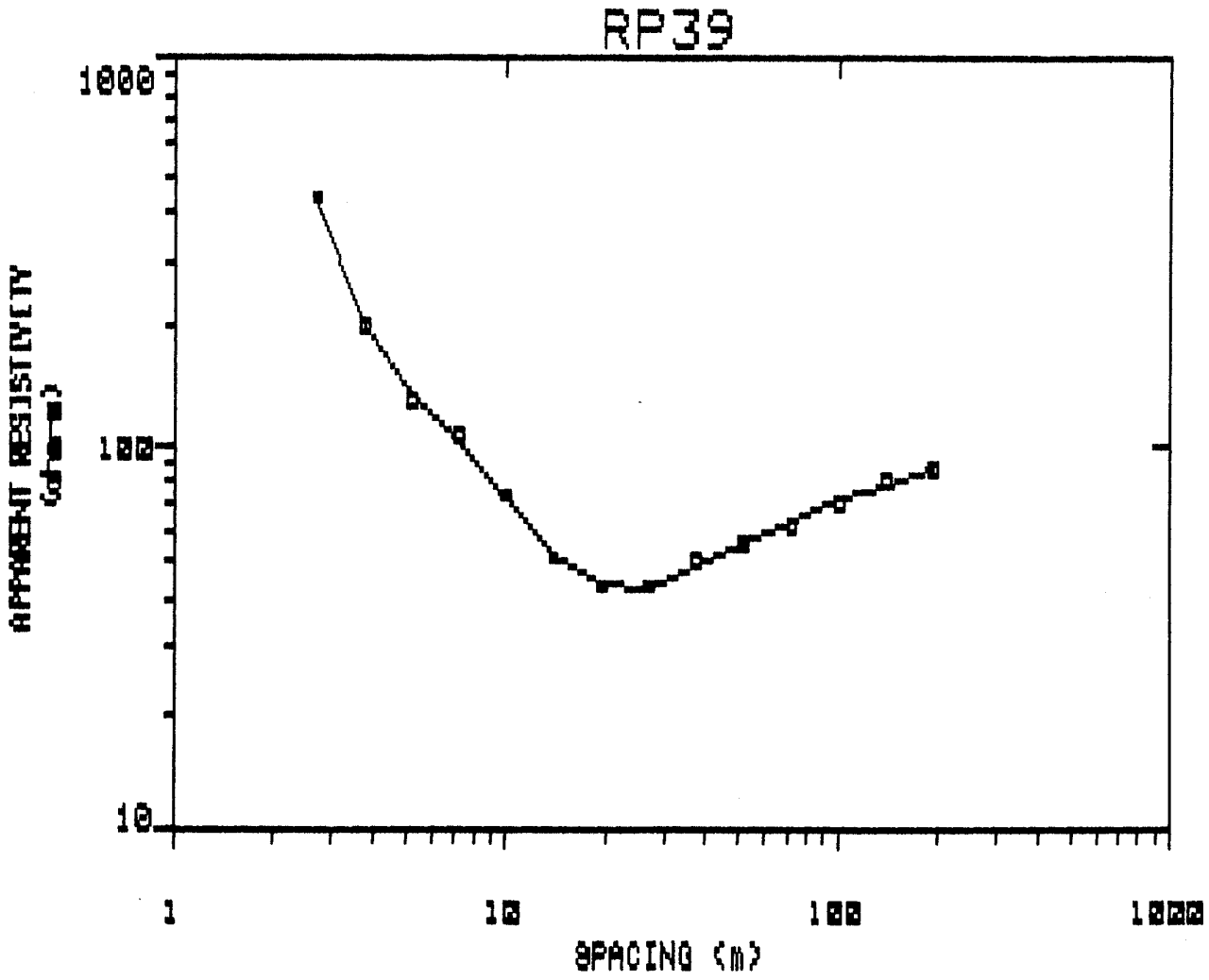
L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	3819.9		0.714	-0.714	1.870E-04
2	151.6		3.75	-4.46	0.0247
3	33.01		17.17	-21.63	0.520
4	96.15				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	436.2	437.0	-0.177
2	3.73	204.2	201.9	1.11
3	5.18	129.8	135.5	-4.35
4	7.20	106.6	102.6	3.69
5	10.00	74.35	73.25	1.48
6	13.90	51.06	52.54	-2.90
7	19.30	43.00	43.29	-0.675
8	26.80	43.00	42.81	0.433
9	37.30	50.00	47.69	4.61
10	51.80	55.00	55.32	-0.595
11	72.00	62.00	63.90	-3.07
12	100.0	70.00	72.12	-3.04
13	139.0	80.00	79.32	0.840
14	193.0	87.00	85.07	2.21

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER
P 1 0.98

P 2	0.00	1.00					
P 3	0.00	0.00	1.00				
P 4	0.00	0.00	0.00	1.00			
T 1	0.00	0.00	0.00	0.00	1.00		
T 2	0.00	0.00	0.00	0.00	0.00	1.00	
T 3	0.00	0.00	0.00	0.00	0.00	0.00	0.99
	P 1	P 2	P 3	P 4	T 1	T 2	T 3


RP39
1000
100
10
1
10
100
1000
SPACING (m)

DATA SET: RP40

CLIENT: ITGE
LOCATION: ESTIVELLA
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 1-6-92
SOUNDING: RP40
AZIMUTH: N-16-E
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 1.635 PERCENT

L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	138.6		1.74	-1.74	0.0126
2	60.16		3.18	-4.92	0.0528
3	217.8		5.77	-10.70	0.0265
4	42.29		43.39	-54.09	1.02
5	164.2				

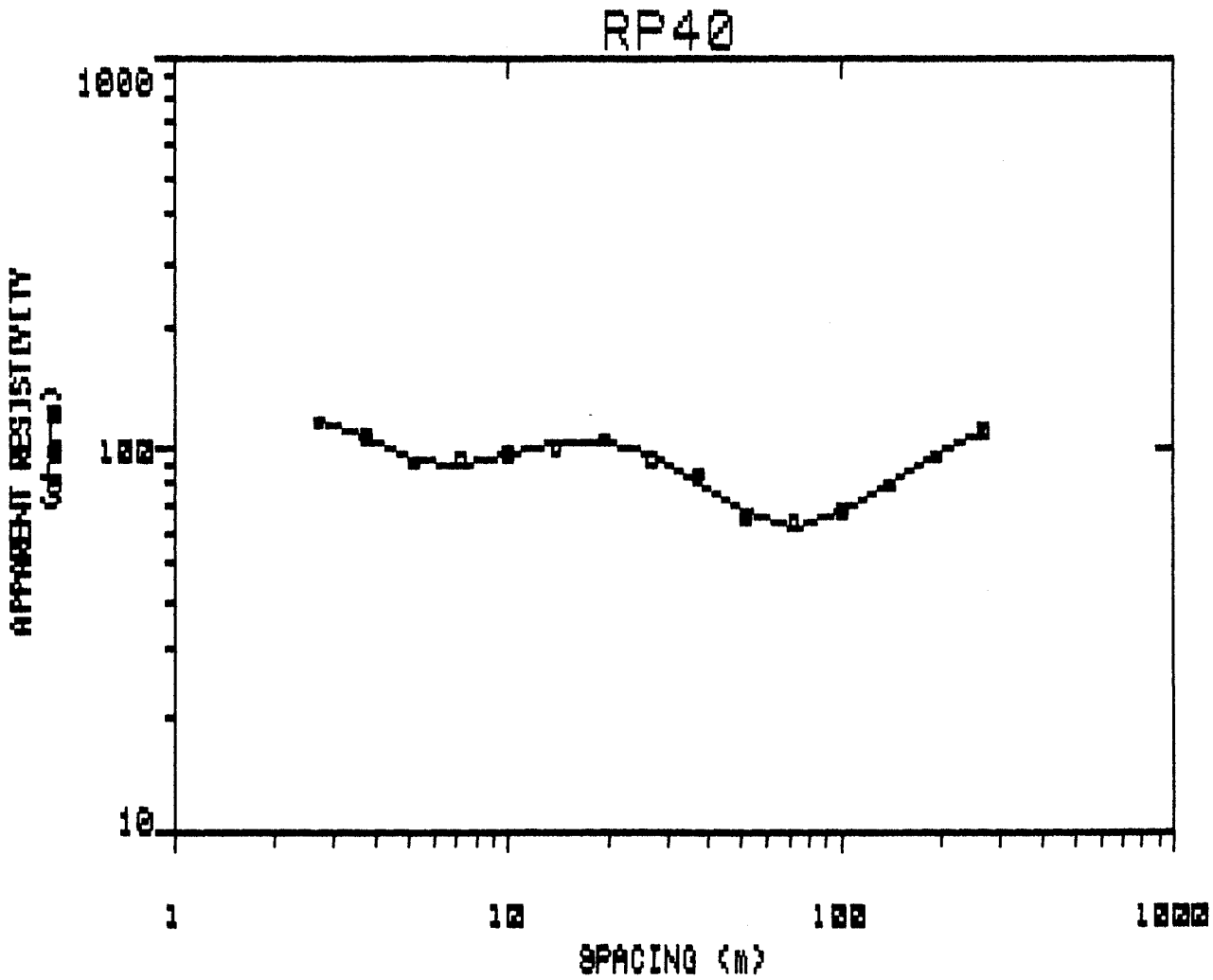
ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	116.0	117.4	-1.28
2	3.73	107.0	104.3	2.51
3	5.18	91.00	93.56	-2.81
4	7.20	92.00	90.67	1.44
5	10.00	95.00	95.53	-0.558
6	13.90	100.0	101.6	-1.67
7	19.30	105.0	101.6	3.14
8	26.80	92.00	92.72	-0.784
9	37.30	85.00	78.13	8.08
10	51.80	65.00	65.87	-1.35
11	72.00	63.00	62.13	1.38
12	100.0	68.00	67.76	0.349
13	139.0	79.00	79.68	-0.870
14	193.0	94.00	94.33	-0.356
15	268.0	110.0	109.4	0.470

PARAMETER RESOLUTION MATRIX:

"F" INDICATES FIXED PARAMETER

P 1	0.97								
P 2	-0.04	0.80							
P 3	0.02	0.03	0.63						
P 4	0.00	0.03	-0.01	0.92					
P 5	0.00	0.00	0.01	-0.04	0.94				
T 1	0.07	0.19	-0.06	-0.01	0.00	0.77			
T 2	-0.05	-0.30	-0.10	0.06	0.01	0.26	0.47		
T 3	-0.01	-0.02	0.44	0.08	0.02	0.04	0.12	0.43	
T 4	-0.01	0.04	-0.02	-0.13	-0.10	-0.01	0.08	0.12	0.75
	P 1	P 2	P 3	P 4	P 5	T 1	T 2	T 3	T 4


RP40
1000
100
10
APPARENT RESISTIVITY
(ohm-m)
1
10
100
1000
SPACING (m)

DATA SET: RP41

CLIENT: ITGE
LOCATION: ESTIVELLA
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 1-6-92
SOUNDING: RP41
AZIMUTH: N-35-92
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 5.758 PERCENT

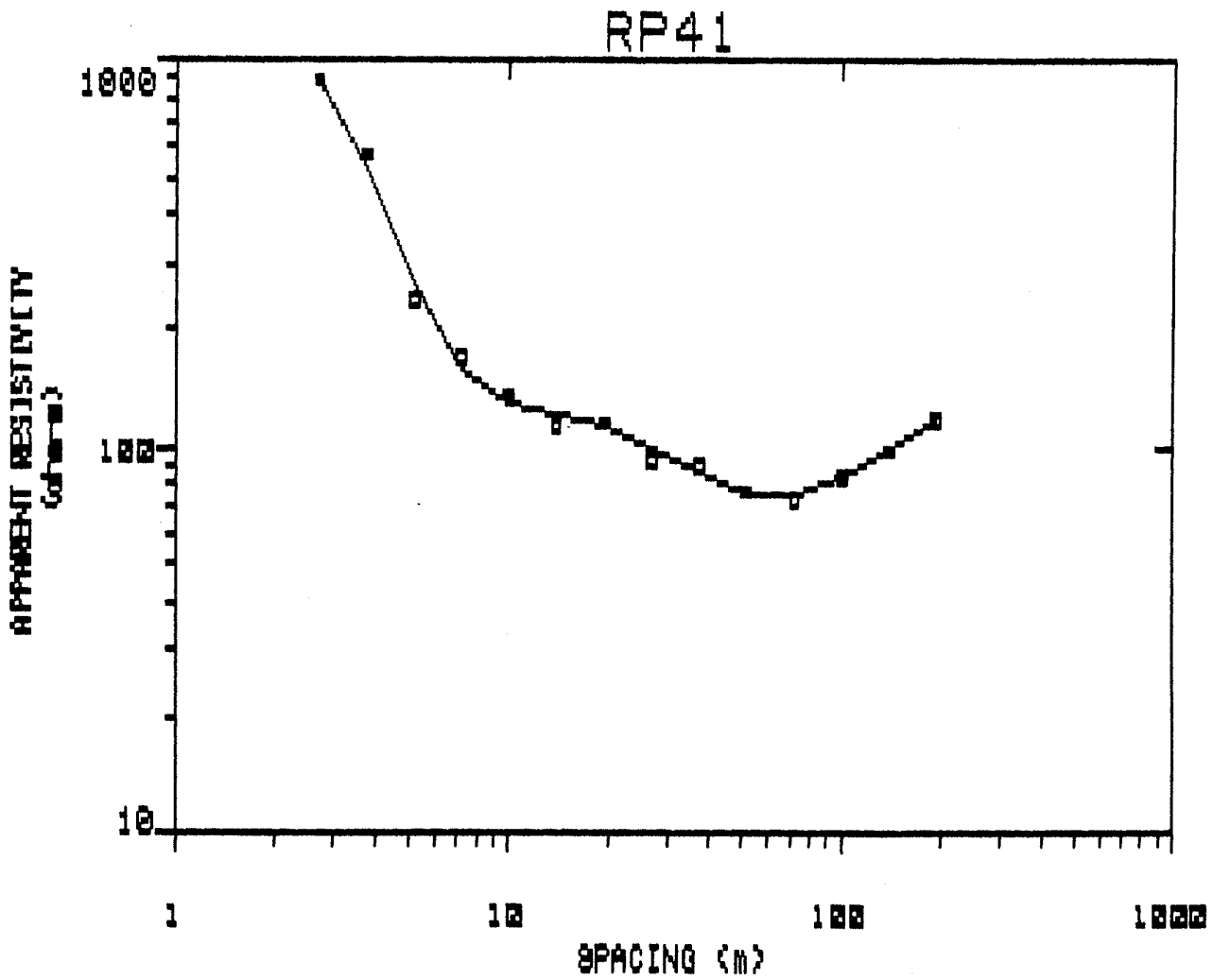
L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	1441.9		1.39	-1.39	9.701E-04
2	96.07		25.89	-27.29	0.269
3	35.64		25.82	-53.11	0.724
4	239.3				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	PA (ohm-m) SYNTHETIC	DIFFERENCE (percent)
1	2.68	734.0	744.9	-1.48
2	3.73	465.9	433.8	6.88
3	5.18	197.1	219.9	-11.57
4	7.20	138.3	128.0	7.43
5	10.00	111.3	104.0	6.55
6	13.90	92.91	98.23	-5.72
7	19.30	86.53	94.79	-9.54
8	26.80	93.00	90.68	2.49
9	37.30	89.00	84.56	4.98
10	51.80	77.00	77.83	-1.08
11	72.00	73.00	75.20	-3.02
12	100.0	83.00	81.50	1.80
13	139.0	97.00	96.78	0.222
14	193.0	117.0	117.2	-0.210

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER
P 1 0.97

P 2	0.00	1.00					
P 3	0.00	0.00	0.59				
P 4	0.01	0.01	0.05	0.64			
T 1	0.01	0.00	0.00	0.00	0.99		
T 2	0.01	0.01	0.15	-0.10	-0.01	0.88	
T 3	0.00	0.00	-0.44	-0.14	0.00	0.12	0.41
	P 1	P 2	P 3	P 4	T 1	T 2	T 3


RP41
1000
100
10
APPARENT RESISTIVITY
1
10
100
1000
SPACING (m)

DATA SET: RP42

DATE: 1 6 82
SOUNDING: RP42
AZIMUTH: N 44 W
EQUIPMENT: ADARO

ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

Schlumberger Configuration

FITTING ERROR: 4.41% PERCENT

L #	RESISTIVITY (ohm-m)	CHARGEABILITY (mv/v)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	3[illegible]6.6		1.32	-1.32	3.645E-04
2	[illegible]09.9		1.13	-2.45	0.0112
3	[illegible]81.[illegible]		17.74	-20.20	0.145
4	[illegible]3.53		83.17	-103.3	1.30
5	[illegible]34.[illegible]				

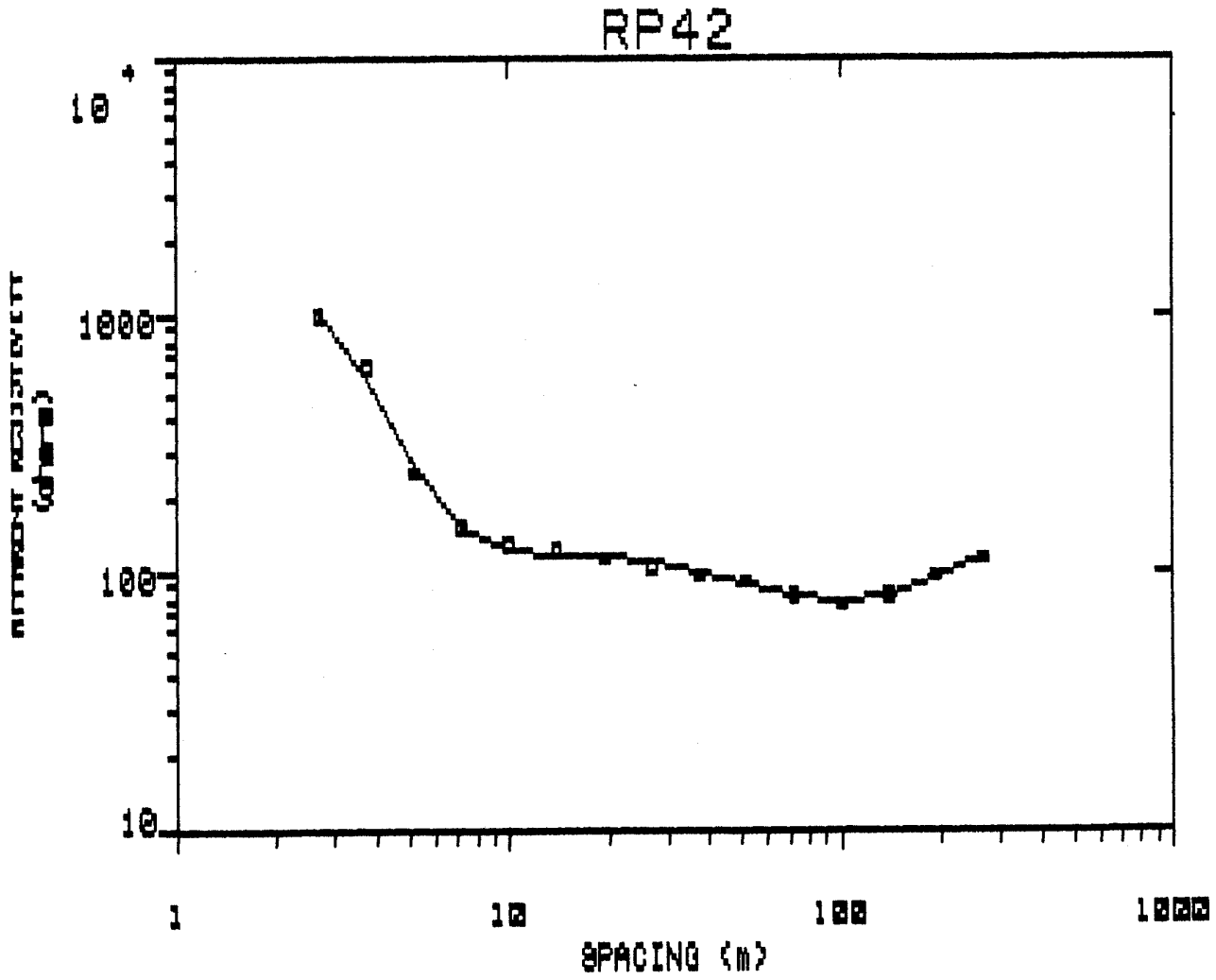
ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	PA (ohm-m) SYNTHETIC	DIFFERENCE (percent)
1	2.[illegible]8	1082.0	1080.8	-5.56
2	3.[illegible]3	647.0	579.4	10.70
3	5.[illegible]3	290.0	267.6	-7.93
4	7.[illegible]0	153.0	151.4	0.975
5	[illegible]0.[illegible]8	10[illegible].0	126.9	2.92
6	13.[illegible]0	10[illegible].0	121.2	2.35
7	17.[illegible]8	11[illegible].0	116.2	-1.97
8	[illegible]6.[illegible]1	107.0	109.0	-1.73
9	37.[illegible]0	9[illegible].00	78.53	-0.550
10	51.[illegible]0	[illegible]3.00	87.31	6.11
11	72.[illegible]7	82.00	77.51	3.03
12	100.[illegible]	77.50	78.04	-1.35
13	13[illegible].[illegible]	[illegible].00	83.94	-2.07
14	190.[illegible]	77.50	76.97	2.04
15	2[illegible]6.[illegible]	115.4	115.4	-0.371

PARAMETER RESOLUTION MATRIX:

[illegible] FIXED PARA[illegible]TER

[illegible]								
[illegible]	31							
[illegible]	[illegible]3	0.79						
[illegible]	[illegible]	-0.01	[illegible]					
[illegible]	[illegible]	[illegible]	[illegible]	0.50				
[illegible]	[illegible]	[illegible].00	[illegible]	0.00	0.9[illegible]			
[illegible]	[illegible]10	-[illegible].01	[illegible]	0.01	-0.[illegible]	[illegible].03		
[illegible]	15	[illegible].03	[illegible]	0.02	0.0[illegible]	0.09	0.75	
[illegible]	[illegible]	-[illegible].01	[illegible]	-0.84	0.0[illegible]	[illegible].00	0.17	0.5[illegible]
[illegible]	P 2	P 3	[illegible]	P 5	T [illegible]	T 2	T 3	T [illegible]


RP42
10 4
1000
100
10
1
10
100
1000
SPACING (m)

DATA SET: RP43

CLIENT: ITGE
LOCATION: ESTIVELLA
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 1-6-92
SOUNDING: RP43
AZIMUTH: N-44-W
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 2.731 PERCENT

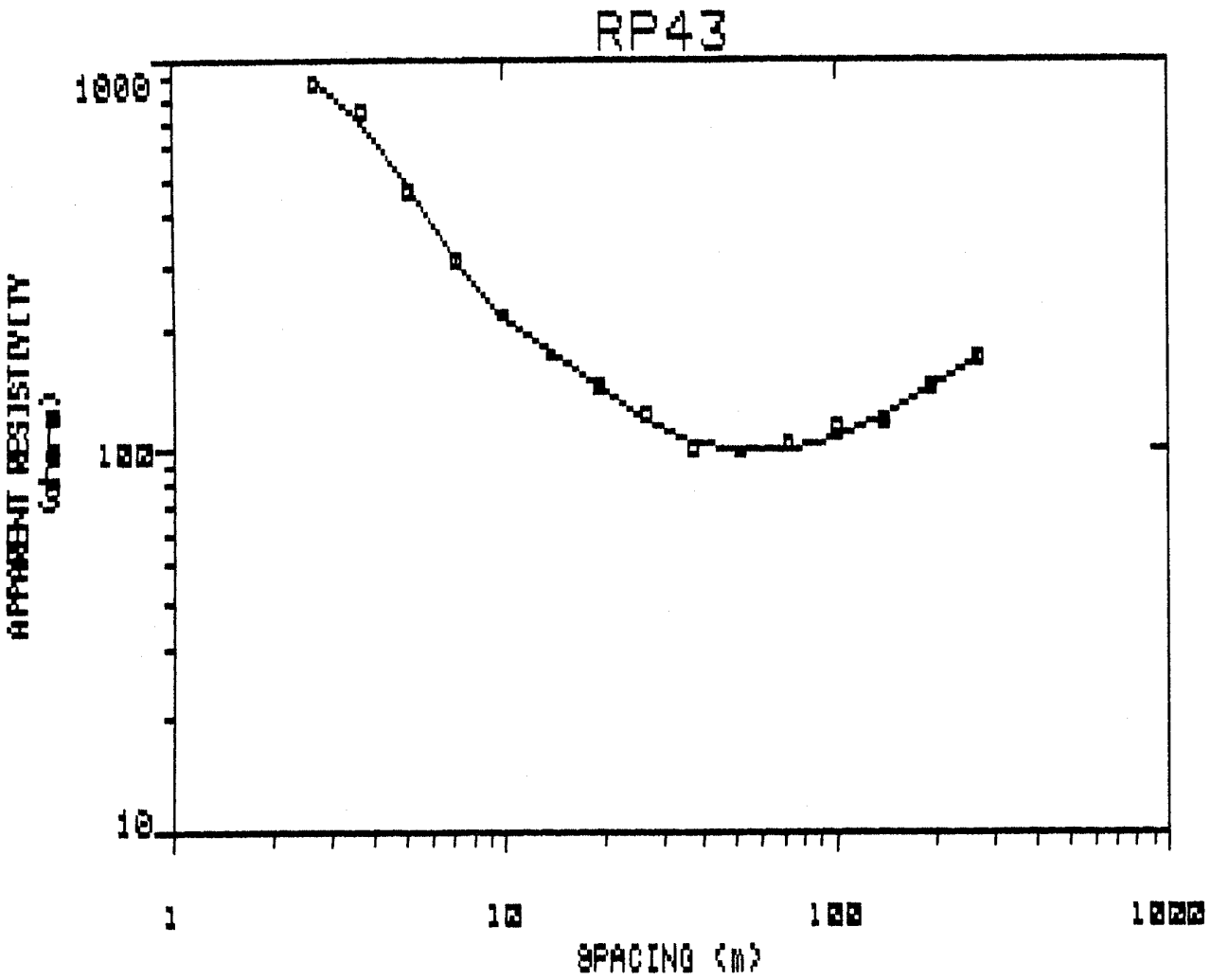
L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	1167.1		1.94	-1.94	0.00167
2	186.7		8.43	-10.38	0.0451
3	86.94		56.65	-67.03	0.651
4	239.9				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	863.4	893.6	-3.49
2	3.73	735.0	686.7	6.57
3	5.18	447.2	465.0	-3.98
4	7.20	298.5	299.4	-0.295
5	10.00	216.1	213.0	1.43
6	13.90	171.2	172.1	-0.576
7	19.30	143.3	143.9	-0.425
8	26.80	121.0	120.7	0.240
9	37.30	107.0	105.5	1.35
10	51.80	97.00	99.77	-2.85
11	72.00	103.0	102.0	0.897
12	100.0	114.0	111.7	1.94
13	139.0	116.0	128.0	-10.39
14	193.0	144.0	148.2	-2.94
15	268.0	172.0	169.2	1.60

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER

P 1	1.00						
P 2	0.00	1.00					
P 3	0.00	0.00	1.00				
P 4	0.00	0.00	0.00	1.00			
T 1	0.00	0.00	0.00	0.00	1.00		
T 2	0.00	0.00	0.00	0.00	0.00	1.00	
T 3	0.00	0.00	0.00	-0.01	0.00	0.00	0.99
	P 1	P 2	P 3	P 4	T 1	T 2	T 3


RP43
1000
100
10
1
10
100
1000
SPACING (m)

DATA SET: RP44

CLIENT: ITGE
LOCATION: ESTIVELLA
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
DATE: 1-6-92
SOUNDING: RP44
AZIMUTH: N-44-W
EQUIPMENT: ADARO
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

Schlumberger Configuration

FITTING ERROR: 2.756 PERCENT

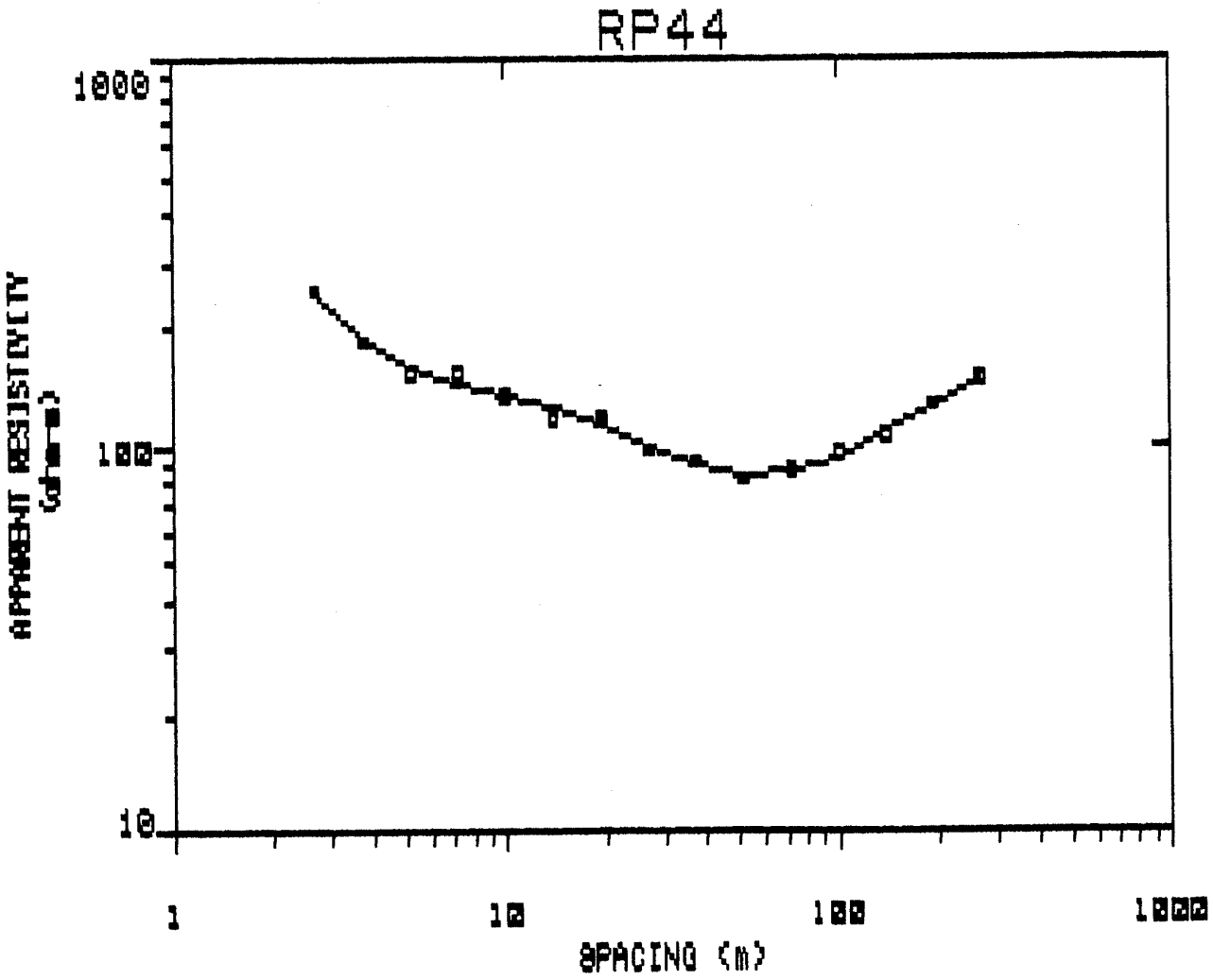
L #	RESISTIVITY (ohm-m)	CHARGEABILITY (mfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	776.8		0.817	-0.817	0.00105
2	152.7		8.50	-9.31	0.0556
3	74.84		64.74	-74.06	0.865
4	242.9				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	SYNTHETIC	DIFFERENCE (percent)
1	2.68	266.6	266.7	-0.0362
2	3.73	196.3	195.7	0.326
3	5.18	162.8	166.4	-2.19
4	7.20	162.8	153.9	5.48
5	10.00	140.4	143.7	-2.30
6	13.90	124.5	130.6	-4.92
7	19.30	119.7	114.5	4.35
8	26.80	97.00	99.02	-2.08
9	37.30	91.00	88.41	2.83
10	51.80	82.00	84.29	-2.79
11	72.00	86.00	86.13	-0.153
12	100.0	96.00	94.05	2.02
13	139.0	107.0	108.4	-1.33
14	193.0	128.0	127.8	0.0898
15	268.0	150.0	149.7	0.135

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER

P 1	0.99						
P 2	0.00	1.00					
P 3	0.00	0.00	1.00				
P 4	0.00	0.00	0.00	1.00			
T 1	0.01	0.00	0.00	0.00	1.00		
T 2	0.00	0.00	0.00	0.00	0.00	1.00	
T 3	0.00	0.00	0.00	0.00	0.00	0.00	0.99
	P 1	P 2	P 3	P 4	T 1	T 2	T 3


RP44
1000
100
10
APPARENT RESISTIVITY
(ohm-m)
1
10
100
1000
SPACING (m)

DATA SET: RP45

CLIENT: ITGE
LOCATION: ESTIVELLA
COUNTY: VALENCIA
PROJECT: RESISTIVIDADES
ELEVATION: 0.00
SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

DATE: 1-6-92
SOUNDING: RP45
AZIMUTH: N-44-W
EQUIPMENT: ADARO

Schlumberger Configuration

FITTING ERROR: 2.136 PERCENT

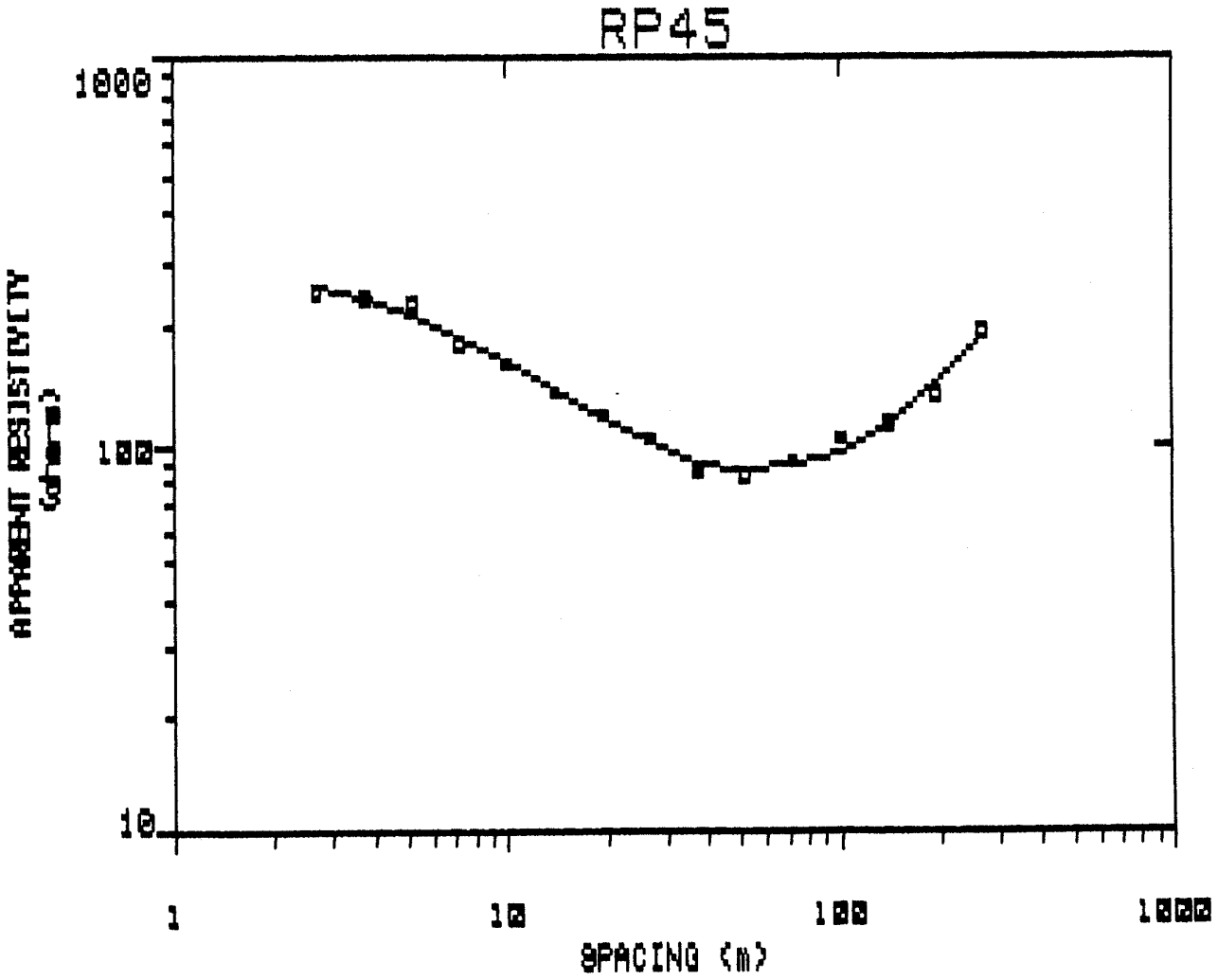
L #	RESISTIVITY (ohm-m)	CHARGEABILITY (pfe)	THICKNESS (meters)	ELEVATION (meters)	CONDUCTANCE (Siemens)
				0.0	
1	268.9		2.57	-2.57	0.00956
2	142.1		9.42	-12.00	0.0663
3	63.19		32.26	-44.26	0.510
4	179.2				

ALL PARAMETERS ARE FREE

No.	Spacing (m)	PA (ohm-m) DATA	PA (ohm-m) SYNTHETIC	DIFFERENCE (percent)
1	2.68	249.0	253.2	-1.68
2	3.73	242.0	236.8	2.14
3	5.18	234.0	212.7	9.08
4	7.20	182.0	185.2	-1.77
5	10.00	163.0	160.4	1.59
6	13.90	137.0	139.5	-1.86
7	19.30	120.0	120.1	-0.129
8	26.80	105.0	101.7	3.11
9	37.30	85.00	88.37	-3.96
10	51.80	84.00	84.37	-0.451
11	72.00	91.00	89.99	1.10
12	100.0	104.0	102.3	1.63
13	139.0	114.0	117.5	-3.13
14	193.0	135.0	132.8	1.61
15	268.0	196.0	146.4	25.30

PARAMETER RESOLUTION MATRIX:
"F" INDICATES FIXED PARAMETER

P 1	0.99						
P 2	-0.01	0.95					
P 3	0.00	-0.03	0.95				
P 4	0.00	-0.01	-0.03	0.94			
T 1	0.04	0.11	0.04	0.01	0.76		
T 2	0.01	0.07	0.08	0.03	-0.10	0.84	
T 3	-0.01	-0.06	-0.11	-0.11	0.09	0.17	0.69
	P 1	P 2	P 3	P 4	T 1	T 2	T 3


RP45
1000
100
10
1
10
100
1000
SPACING (m)

FORMATOS DE LOS FICHEROS

Los ficheros ASCII, de extensión .RPD tienen los formatos siguientes:

- La primera línea contiene los datos del sondeo, el tipo de dispositivo, la cota, indicación del tipo de unidades empleadas y las coordenadas del sondeo.

Su formato es: (5X, A8, 2X, A4, 2F10.3, I5, 2F15.3).

- Las siguientes líneas, hasta la quinta, tienen el formato: (5X, 30A1, 10X, 15A1). Correspondiendo a datos de identificación del sondeo.

- La sexta línea corresponde a un encabezamiento.

- La séptima, como sexta +N, corresponde al número de puntos medidos, espaciado y resistividad aparente, para N igual al número de datos.

Su formato es: (I5, 5F13.4).