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INVENTARIO DE BIENES CULTURALES

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2008

MINISTERIO DE AGRICULTURA

INSTITUTO NACIONAL DE AMPLIACION DE LA FONTERA AGRICOLA
PROYECTO ESPECIAL DE REHABILITACION DE TIERRAS COSTERAS

PLANREHATIC III

ANEXO 7
CHANCAY-HUARAL

AUTORIDAD NACIONAL DEL AGUA

ESTUDIO GEOFISICO DE RESISTIVIDAD ELECTRICA

MAYO 1985

JOSE E. ARCE HELBERG
GEOFISICO DE EXPLORACIONES
ESTUDIO NO. 300-85

cc BY NC ND

MINISTERIO DE AGRICULTURA

INSTITUTO NACIONAL DE AMPLIACION DE LA FONTERA AGRICOLA
PROYECTO ESPECIAL DE REHABILITACION DE TIERRAS COSTERAS

PLANREHATIC III

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ANEXO 7 : Chancay-Huaral

Ubicación de sondeos eléctricos verticales

SEV	N	E	Cota
A1	8 727 200	263 760	220 m
A2	8 727 640	263 740	218 m
A3	8 728 430	263 760	225 m
A4	8 729 020	263 790	240 m
B1	8 726 280	257 980	147 m
B2	8 727 350	257 690	147 m
B3	8 728 310	257 440	149 m
B4	8 727 080	257 030	143 m
B5	8 729 960	256 830	140 m
B6	8 730 620	256 290	140 m
B7	8 731 200	255 450	134 m
B8	8 731 910	254 850	129 m
B9	8 732 430	253 980	121 m
C1	8 729 130	256 450	134 m
C2	8 728 450	255 650	125 m
C3	8 727 730	254 820	116 m
D1	8 731 340	250 560	65 m
D2	8 731 470	250 530	78 m
E1	8 724 350	255 070	101 m
E2	8 725 000	254 910	102 m
E3	8 725 630	254 510	103 m
E4	8 726 100	254 230	102 m
F1	8 716 430	258 280	52 m
F2	8 716 680	257 880	53 m
F3	8 716 920	257 420	40 m

AUTORIDAD NACIONAL DEL AGUA

GEOFISICA APLICADA
JOSE E. ARCE HELBERG
LIMA - PERU
25/5/85

PLANREHATIC
CHANCAY-HUARAL

A1

R=> 23, 3000, 100, 0, 0, 0,
H=> 12, 13, 0, 0, 0, 0,

AB/2=	Ra	AB/2=	Ra
1	23.09	1.5	23.16
2.15	23.22	3.23	23.31
4.64	23.51	6.96	24.16
10	25.75	15	30.14
21.54	37.69	32.31	50.19
46.41	63.46	69.62	78.16
99.99	88.91	149.99	96.6
215.42	99.71	323.13	100.58
464.1	100.47	696.15	100.24
999.86	100.1	1499.78	100.01

A2

R=> 16, 2000, 80, 200, 0, 0,
H=> 1.4, 2.5, 55, 0, 0, 0,

AUTORIDAD NACIONAL DEL AGUA

AB/2=	Ra	AB/2=	Ra
1	17.73	1.5	20.19
2.15	25.14	3.23	35.22
4.64	48.64	6.96	68.19
10	88.47	15	111.02
21.54	125.77	32.31	129.85
46.41	122.3	69.62	111.28
99.99	109.89	149.99	121.43
215.42	138.44	323.13	157.88
464.1	172.31	696.15	184.13
999.86	191.04	1499.78	195.58

A3

R=> 35, 15, 350, 60, 150, 0,
H=> 1.2, 2, 7, 70, 0, 0,

AB/2=	Ra	AB/2=	Ra
1	34.59	1.5	33.72
2.15	33.58	3.23	37.46
4.64	46.79	6.96	63.13
10	80.3	15	97.89
21.54	106.91	32.31	104.71
46.41	93.74	69.62	81.25
99.99	78.1	149.99	85.43
215.42	97.84	323.13	113
464.1	124.91	696.15	135.16
999.86	141.41	1499.78	145.68

PLANREHATIC
CHANCAY-HUARAL

A4

R=, 180, 400, 120, 400, 35, 330,
H= 1.6, 3.3, 10, 23, 60, 0,

AB/2=	Ra	AB/2=	Ra
1	183.35	1.5	188.87
2.15	199	3.23	215.77
4.64	226.56	6.96	220.77
10	202.16	15	187.05
21.54	188.93	32.31	192.32
46.41	175.17	69.62	134.71
99.99	105.92	149.99	105.01
215.42	127.8	323.13	164.14
464.1	198.62	696.15	235.97
999.86	265.46	1499.78	291.36

B1

R= 85, 28, 170, 80, 60, 140,
H=, .5, 7.4, 12.2, 92, 181, 0,

AUTORIDAD NACIONAL DEL AGUA

AB/2=	Ra	AB/2=	Ra
1	58.06	1.5	43.63
2.15	34.93	3.23	30.84
4.64	30.32	6.96	32.04
10	36.31	15	44.73
21.54	54.26	32.31	64.52
46.41	71.49	69.62	76.16
99.99	77.85	149.99	78.04
215.42	78.81	323.13	83.82
464.1	92.95	696.15	105.82
999.86	116,66	1499.78	126.11

B2

R= 39, 13, 80, 47, 20, 140,
H= 1.3, 3.2, 13.6, 48, 150, 0,

AB/2=	Ra	AB/2=	Ra
1	37.54	1.5	35.04
2.15	30.96	3.23	26.16
4.64	24.9	6.96	28.63
10	35.13	15	43.17
21.54	48.99	32.31	52.15
46.41	51.14	69.62	45.96
99.99	39.33	149.99	33.73
215.42	34.07	323.13	41.51
464.1	52.7	696.15	67.91
999.86	82.51	1499.78	98.59

PLANREHATIC
CHANCAY-HUARAL

B3

R=> 190, 800, 260, 3000, 30, 320,
H=> .8, 1.3, 9, 11.5, 185, 0,

AB/2=	Ra	AB/2=	Ra
1	221.14	1.5	253.64
2.15	285.95	3.23	309.93
4.64	314.16	6.96	308.35
10	310.3	15	331.53
21.54	350.48	32.31	327.41
46.41	249.1	69.62	136.72
99.99	66.92	149.99	39.46
215.42	40.52	323.13	51.45
464.1	66.87	696.15	91.11
999.86	118.35	1499.78	153.54

B4

R=> 42, 1100, 130, 36, 180, 0,
H=> .5, 3.7, 25, 267, 0, 0,

AUTORIDAD NACIONAL DEL AGUA

AB/2=	Ra	AB/2=	Ra
1	79.14	1.5	112.57
2.15	154.26	3.23	213.23
4.64	273.11	6.96	335.65
10	366.46	15	347.07
21.54	281.54	32.31	188.61
46.41	119.81	69.62	71.5
99.99	50.15	149.99	41.5
215.42	40.99	323.13	45.69
464.1	54.93	696.15	70.7
999.86	88.08	1499.78	109.04

B5

R=> 20, 81, 150, 65, 18, 380,
H=> .7, 4, 16, 55, 145, 0,

AB/2=	Ra	AB/2=	Ra
1	25.67	1.5	31.63
2.15	39.04	3.23	48.95
4.64	58.89	6.96	71.37
10	83.6	15	96.57
21.54	103.74	32.31	102.12
46.41	91.26	69.62	72.34
99.99	54.59	149.99	41.14
215.42	39.96	323.13	50.89
464.1	68.58	696.15	95.12
999.86	124.75	1499.78	164.22

PLANREHATIC
CHANCAY-HUARAL

B6

R=> 38, 57, 110, 22, 145, 0,
H=> 1.4, 10, 40, 190, 0, 0,

AB/2=	Ra	AB/2=	Ra
1	38.71	1.5	39.79
2.15	41.72	3.23	45.05
4.64	48.58	6.96	52.66
10	56.61	15	62.32
21.54	68.86	32.31	75.92
46.41	78.08	69.62	70.95
99.99	56.73	149.99	40.77
215.42	34.4	323.13	37.99
464.1	47.68	696.15	62.2
999.86	76.87	1499.78	93.86

B7

R=> 100, 67, 85, 18, 165, 0,
H=> .6, 4, 29, 120, 0, 0,

AUTORIDAD NACIONAL DEL AGUA

AB/2=	Ra	AB/2=	Ra
1	90.08	1.5	82.36
2.15	76.02	3.23	71.76
4.64	70.93	6.96	72.63
10	75.26	15	77.62
21.54	77.62	32.31	72.63
46.41	61.67	69.62	44.85
99.99	32.96	149.99	29.41
215.42	34.63	323.13	46.34
464.1	59.96	696.15	77.76
999.86	95.02	1499.78	114.22

B8

R=> 24, 95, 15, 160, 0, 0,
H=> 1.1, 12, 117, 0, 0, 0,

AB/2=	Ra	AB/2=	Ra
1	26.19	1.5	29.63
2.15	35.42	3.23	44.66
4.64	53.97	6.96	63.65
10	69.77	15	70.33
21.54	62.05	32.31	44.75
46.41	29.65	69.62	20.3
99.99	18.63	149.99	21.38
215.42	26.97	323.13	36.73
464.1	48.38	696.15	64.24
999.86	80.32	1499.78	99.24

PLANREHATIC
CHANCAY-HUARAL

B9

R=> 13.5, 400, 35, 12, 85, 0,
H=> 1.5, 2.8, 58, 100, 0, 0,

AB/2=	Ra	AB/2=	Ra
1	14.42	1.5	16.02
2.15	19.36	3.23	25.94
4.64	33.98	6.96	44
10	51.8	15	56.09
21.54	54.23	32.31	47.52
46.41	40.99	69.62	35.29
99.99	31.51	149.99	29.76
215.42	32.26	323.13	39.53
464.1	48.07	696.15	57.88
999.86	65.84	1499.78	73.12

C1

R=> 60, 1200, 115, 28, 300, 0,
H=> 1, 1.8, 25, 230, 0, 0,

AUTORIDAD NACIONAL DEL AGUA

AB/2=	Ra	AB/2=	Ra
1	70.39	1.5	86.26
2.15	109.85	3.23	143.39
4.64	172.52	6.96	192.42
10	190.27	15	167.2
21.54	139.41	32.31	109.49
46.41	83.49	69.62	56.73
99.99	40.67	149.99	33.78
215.42	34.81	323.13	41.94
464.1	53.92	696.15	73.8
999.86	96.78	1499.78	127.52

C2

R=> 31, 62, 7, 140, 0, 0,
H=> 1.2, 48, 110, 0, 0, 0,

AB/2=	Ra	AB/2=	Ra
1	32.27	1.5	34.3
2.15	37.69	3.23	42.97
4.64	48.04	6.96	53.06
10	56.5	15	58.88
21.54	59.61	32.31	58.71
46.41	55.28	69.62	46.21
99.99	34.32	149.99	23.74
215.42	22.02	323.13	28.03
464.1	37.29	696.15	50.15
999.86	63.52	1499.78	79.91

PLANREHATIC
CHANCAY-HUARAL

C3

R=> 3.6, 48, 8, 150, 0, 0,
H=> .8, 25, 60, 0, 0, 0,

AB/2=	Ra	AB/2=	Ra
1	4.81	1.5	6.26
2.15	8.3	3.23	11.46
4.64	15.12	6.96	20.06
10	24.89	15	30.11
21.54	33.83	32.31	35.4
46.41	33.07	69.62	27.44
99.99	24.13	149.99	26.65
215.42	34.28	323.13	46.66
464.1	60.01	696.15	76.91
999.86	92.78	1499.78	109.76

D1

R=> 25, 50, 160, 0, 0, 0,
H=> 3.5, 20, 0, 0, 0, 0,

AUTORIDAD NACIONAL DEL AGUA

AB/2=	Ra	AB/2=	Ra
1	25.12	1.5	25.28
2.15	25.62	3.23	26.53
4.64	28.3	6.96	31.85
10	36.25	15	42
21.54	48.16	32.31	57.74
46.41	69.8	69.62	86.66
99.99	102.93	149.99	120.24
215.42	133.35	323.13	144.41
464.1	151.02	696.15	155.46
999.86	157.62	1499.78	158.85

D2

R=> 300, 100, 18, 450, 0, 0,
H=> 1, 9.1, 20, 0, 0, 0,

AB/2=	Ra	AB/2=	Ra
1	274.95	1.5	240.51
2.15	195.18	3.23	146.04
4.64	117.46	6.96	100.86
10	88.85	15	70.69
21.54	55.26	32.31	50.73
46.41	61.36	69.62	85.23
99.99	113.95	149.99	153.83
215.42	196.01	323.13	248.24
464.1	295.68	696.15	344.58
999.86	380.62	1499.78	410.2

PLANREHATIC
CHANCAY-HUARAL

E1

R=> 15, 125, 36, 80, 0, 0,
H=> 3, 40, 170, 0, 0, 0,

AB/2=	Ra	AB/2=	Ra
1	15.29	1.5	15.59
2.15	16.23	3.23	18.05
4.64	21.59	6.96	28.52
10	37.37	15	49.56
21.54	61.49	32.31	74.31
46.41	82.71	69.62	84.29
99.99	76.63	149.99	62.51
215.42	53.2	323.13	51.8
464.1	56.57	696.15	63.71
999.86	69.25	1499.78	73.8

E2

R=> 65, 21, 70, 19, 73, 0,
H=> .8, 8.5, 60, 220, 0, 0,

AUTORIDAD NACIONAL DEL AGUA

AB/2=	Ra	AB/2=	Ra
1	56	1.5	46
2.15	35.73	3.23	27.27
4.64	23.84	6.96	23.34
10	25.05	15	29.5
21.54	35.37	32.31	42.66
46.41	48.3	69.62	51.48
99.99	49.43	149.99	41.72
215.42	34.12	323.13	30.82
464.1	33.83	696.15	41.13
999.86	48.5	1499.78	56.15

E3

R=> 24, 95, 14, 60, 12, 90,
H=> .7, 1.5, 5, 78, 130, 0,

AB/2=	Ra	AB/2=	Ra
1	29.25	1.5	33.92
2.15	37.58	3.23	37.82
4.64	33.85	6.96	28.6
10	27.6	15	31.64
21.54	37.46	32.31	43.79
46.41	48.18	69.62	50.76
99.99	49.69	149.99	44.57
215.42	40.16	323.13	40.89
464.1	47.2	696.15	57.2
999.86	66.05	1499.78	74.49

PLANREHATIC
CHANCAY-HUARAL

E4

R=> 21, 12, 34, 96, 45, 110,
H=> 2.2, 4, 18, 40, 110, 0,

AB/2=	Ra	AB/2=	Ra
1	20.96	1.5	20.82
2.15	20.5	3.23	19.79
4.64	19.26	6.96	19.99
10	22.34	15	26.39
21.54	30.89	32.31	37.16
46.41	43.71	69.62	50.6
99.99	55	149.99	58.74
215.42	63.54	323.13	72.15
464.1	81.49	696.15	91.29
999.86	98.16	1499.78	103.47

F1

R=> 30, 700, 5, 250, 0, 0,
H=> 1.3, 19, 25, 0, 0, 0,

AUTORIDAD NACIONAL DEL AGUA

AB/2=	Ra	AB/2=	Ra
1	33.92	1.5	39.24
2.15	48.97	3.23	67.69
4.64	92.94	6.96	131.88
10	175.53	15	230.92
21.54	279.1	32.31	312.33
46.41	299.31	69.62	229.68
99.99	154.05	149.99	108.39
215.42	111.22	323.13	137.69
464.1	164.07	696.15	190.64
999.86	210.62	1499.78	227.48

F2

R=> 52, 900, 220, 15, 250, 0,
H=> 1.2, 4.3, 47, 100, 0, 0,

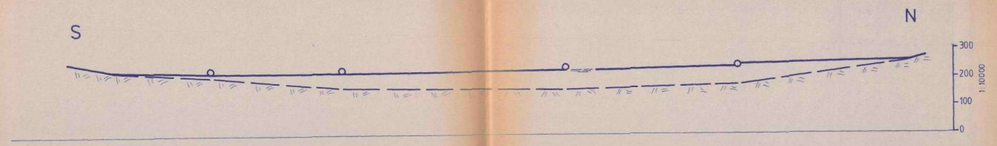
AB/2=	Ra	AB/2=	Ra
1	58.5	1.5	68.72
2.15	87.3	3.23	120.38
4.64	159.46	6.96	209.87
10	253.4	15	286.26
21.54	290.66	32.31	268.01
46.41	231.51	69.62	176.49
99.99	119.75	149.99	70.53
215.42	55.99	323.13	66.96
464.1	87.36	696.15	114.06
999.86	139.91	1499.78	169.26

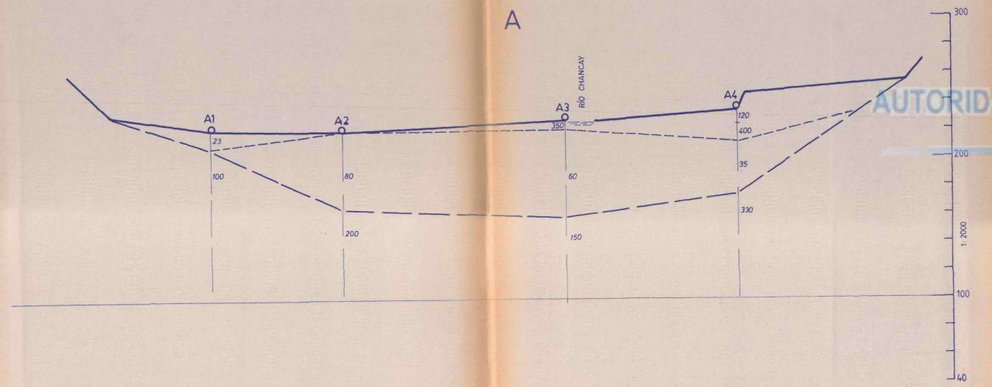
PLANREHATIC
CHANCAY-HUARAL

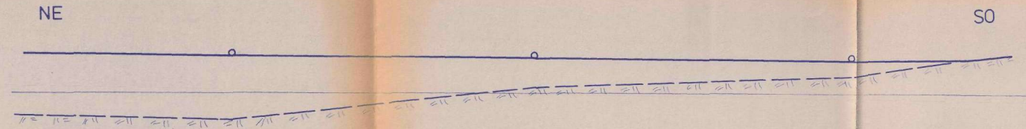
F3 R=> 50, 1100, 100, 5, 100, 0,
H=> 1.1, 2.2, 60, 70, 0, 0,

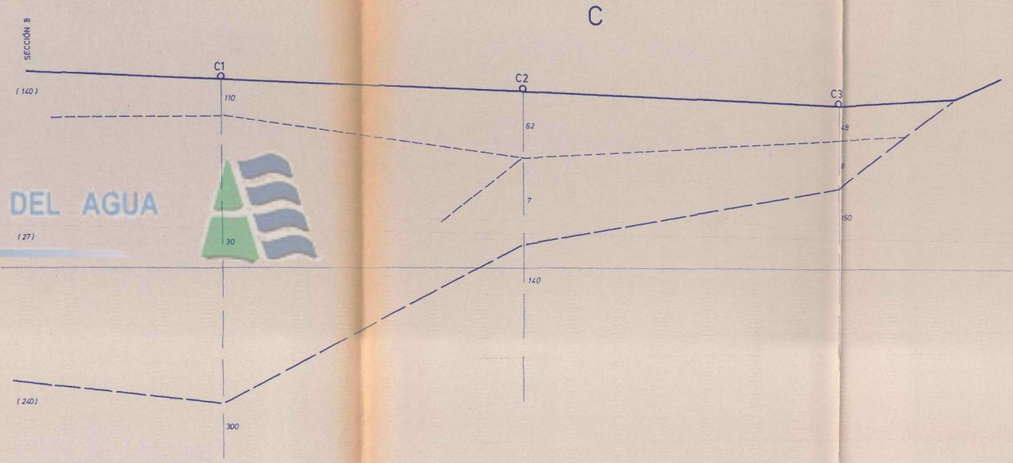
AB/2=	Ra	AB/2=	Ra
1	57.02	1.5	68.71
2.15	87.8	3.23	117.63
4.64	147.12	6.96	174.37
10	183.85	15	171.58
21.54	146.88	32.31	120.05
46.41	103.95	69.62	89.65
99.99	74.7	149.99	60.02
215.42	56.3	323.13	62.78
464.1	72.24	696.15	81.9
999.86	88.5	1499.78	93.67

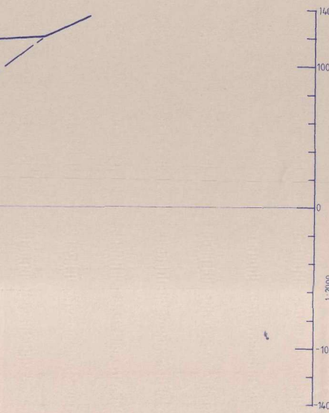
AUTORIDAD NACIONAL DEL AGUA











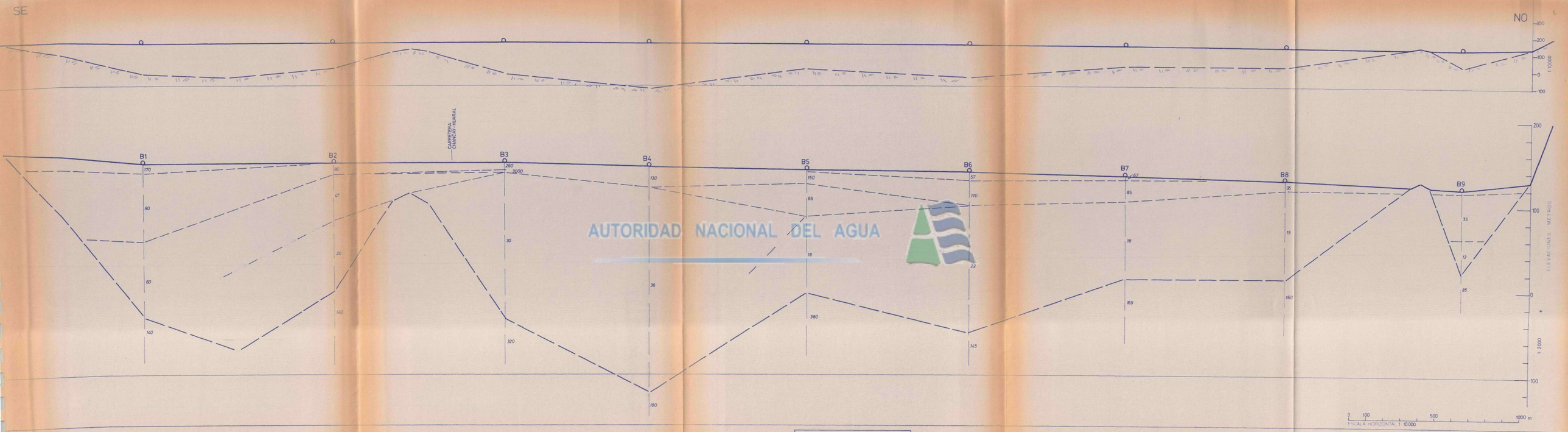
AUTORIDAD NACIONAL DEL AGUA

O	ESTACIÓN DE SONDEO ELÉCTRICO
——	CONTACTOS INTERPRETADOS
55	RESISTIVIDAD EN OHMIOMETROS

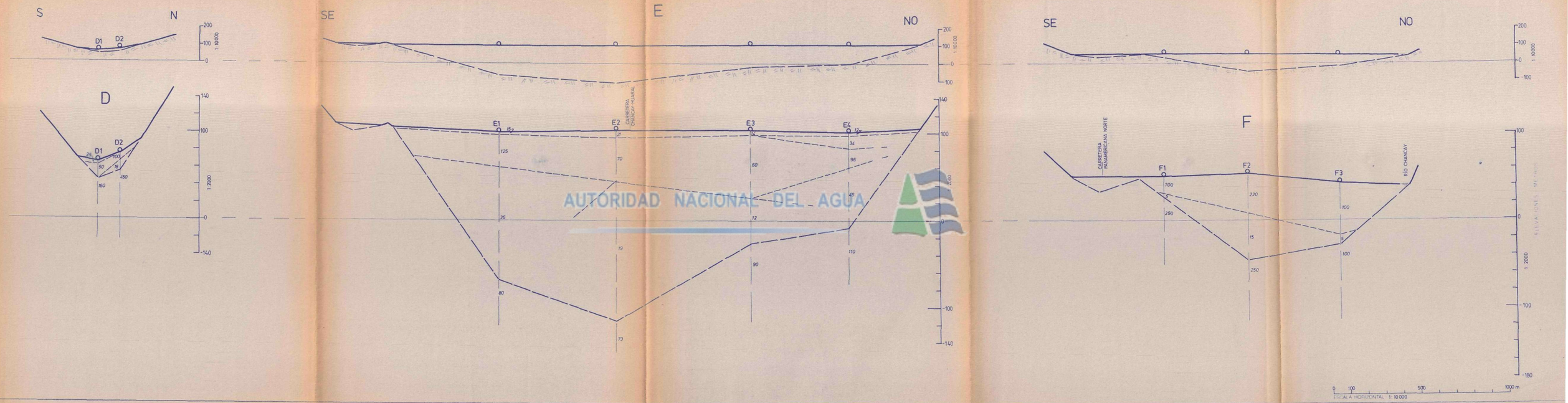
MINISTERIO DE AGRICULTURA INSTITUTO NACIONAL DE AMPLIACIÓN DE LA FRONTERA AGRÍCOLA - INAF
DIRECCIÓN EJECUTIVA DEL PROYECTO ESPECIAL DE REHABILITACIÓN DE TIERRAS COSTERAS DEPE-REHATIC
PLANREHATIC III

ESTUDIO GEOFÍSICO DE RESISTIVIDAD EN
CHANCAY - HUARAL SECCIÓN
MAYO 1985

CC BY NC ND



AUTORIDAD NACIONAL DEL AGUA



AUTORIDAD NACIONAL DEL AGUA

ESTACION DE SONDEO ELECTRICO
CONTACTOS INTERPRETADOS
56 RESISTIVIDAD EN OHMIOMETROS

MINISTERIO DE AGRICULTURA INSTITUTO NACIONAL DE AMPLIACIÓN DE LA FRONTERA AGRÍCOLA - INAF
DIRECCIÓN EJECUTIVA DEL PROYECTO ESPECIAL DE REHABILITACIÓN DE TIERRAS COSTERAS DEPE-REHATIC
PLANREHATIC III

ESTUDIO GEOFISICO DE RESISTIVIDAD ELÉC
CHANCAY - HUARAL SECCIÓN
MAYO 1985

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