

DAILY RIVER RUNOFF AT EL CAJON GAUGING STATION
 COMPENSATED BY LAGUNETAS GAUGING STATION

1975/ 1/18 (MON) 17:43:49

YEAR : 1975

DAY#	1	2	3	4	5	6	7	8	9	10	11	12
1	28.90	32.40	20.10	15.10	13.60	66.60	22.90	23.30	144.00	595.00	1429.00	102.00
2	28.30	50.60	20.10	14.90	13.60	58.15	27.70	45.50	676.00	451.00	1548.00	100.00
3	30.60	28.30	20.20	14.90	13.60	97.11	39.20	36.10	798.00	350.00	780.00	96.70
4	31.20	26.10	20.20	14.90	13.60	102.77	22.20	33.00	180.00	373.00	819.00	94.60
5	39.90	25.60	20.40	14.90	13.80	96.64	20.00	29.40	175.00	327.00	812.00	92.50
6	34.90	23.20	20.40	14.90	13.80	71.89	46.10	26.70	260.00	350.00	676.00	89.50
7	31.80	22.90	17.90	14.90	13.60	100.70	34.90	30.60	185.00	298.00	562.00	89.50
8	30.00	22.90	19.50	14.90	13.60	106.94	39.20	28.90	480.00	331.00	711.00	87.60
9	27.70	22.90	19.20	14.60	13.40	117.67	33.00	40.50	984.00	223.00	644.00	85.80
10	26.70	21.20	19.20	14.60	13.40	88.71	23.80	54.60	660.00	157.00	439.00	84.90
11	26.10	21.50	18.90	14.60	13.40	73.68	20.10	49.80	358.00	145.00	365.00	84.90
12	28.90	21.20	18.90	14.60	13.40	68.34	18.90	44.30	456.00	162.00	301.00	81.50
13	33.00	20.70	18.60	14.30	13.40	94.63	17.70	44.90	180.00	147.00	241.00	76.80
14	32.40	20.30	18.30	14.30	14.10	82.94	17.30	37.40	244.00	791.00	263.00	74.60
15	30.00	20.20	18.00	14.30	17.70	75.50	16.70	22.20	134.00	358.00	217.00	73.20
16	27.20	20.20	17.70	14.30	44.30	61.47	16.40	20.00	94.60	819.00	183.00	73.20
17	25.60	20.10	17.30	14.10	48.60	58.15	20.50	46.70	77.60	284.00	166.00	72.50
18	24.70	20.00	17.00	14.10	46.70	54.89	18.90	60.50	95.60	168.00	151.00	69.20
19	24.20	20.00	17.00	13.80	20.90	53.29	13.60	66.00	134.00	238.00	145.00	66.60
20	23.80	20.00	16.70	13.80	18.30	48.61	16.10	65.40	108.00	373.00	145.00	65.40
21	23.80	20.00	16.70	13.60	17.70	58.15	18.60	62.90	82.00	1010.00	140.00	68.50
22	27.20	20.00	16.40	13.60	17.00	66.60	23.80	69.80	398.00	632.00	140.00	72.50
23	27.70	20.20	16.40	13.60	16.40	58.15	20.20	72.50	1051.00	320.00	138.00	67.20
24	27.20	20.10	16.10	13.80	14.90	61.47	32.40	73.90	846.00	162.00	138.00	64.70
25	26.70	20.20	16.10	13.80	18.90	56.51	30.00	66.00	762.00	162.00	132.00	63.50
26	26.10	20.20	15.70	13.60	21.50	76.72	24.70	52.90	481.00	142.00	127.00	60.50
27	25.10	20.00	15.40	13.60	20.20	81.48	20.20	45.50	323.00	301.00	124.00	59.90
28	27.20	20.00	15.40	13.60	76.10	63.17	20.00	45.00	226.00	180.00	120.00	59.90
29	38.00		15.10	13.60	55.20	104.58	19.70	67.90	175.00	180.00	115.00	57.50
30	40.50		15.10	13.60	41.10	92.64	20.10	51.00	147.00	624.00	107.00	56.30
31	37.40		14.90		33.00		20.10	62.90		1078.00		55.80
TOTAL	912.80	641.00	548.90	427.20	718.80	2298.15	735.00	1474.10	10894.80	11731.00	11878.00	2347.30
AVERAGE	29.45	22.89	17.71	14.24	23.19	76.61	23.71	47.55	363.16	378.42	395.93	75.72
MAXIMUM	40.50	50.60	20.40	15.10	76.10	117.67	46.10	73.90	1051.00	1078.00	1548.00	102.00
MINIMUM	23.80	20.00	14.90	13.60	13.40	48.61	13.60	20.00	77.60	142.00	107.00	55.80

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 TOTAL AVERAGE MAXIMUM MINIMUM
 44607.05 122.21 1548.00 13.40

DAILY RIVER RUNOFF AT EL CAJON GAUGING STATION
 COMPENSATED BY LAGUNETAS GAUGING STATION

1993/ 1/18 (MON) 17:43:49

YEAR : 1976

DAY	1	2	3	4	5	6	7	8	9	10	11	12
1	53.40	50.40	51.80	20.00	32.30	32.40	236.00	67.20	377.00	325.00	87.30	68.20
2	52.80	47.40	30.60	20.00	53.50	31.00	174.00	84.30	181.00	230.00	89.20	63.40
3	51.60	46.10	28.90	20.00	40.69	38.60	193.00	160.00	147.00	143.00	85.50	101.97
4	51.00	44.30	28.30	20.00	37.34	53.10	198.00	153.00	121.00	148.00	80.00	135.00
5	50.40	43.60	27.20	20.00	26.70	151.00	258.00	166.00	146.00	135.00	75.70	111.00
6	48.60	44.30	27.20	20.00	26.70	241.00	227.00	123.00	157.00	140.00	84.50	88.30
7	48.00	44.30	26.10	20.00	24.70	458.00	241.00	122.00	154.00	201.00	181.00	80.00
8	47.40	43.00	27.20	20.00	26.70	439.00	237.00	112.00	117.00	335.00	210.00	72.30
9	42.43	42.40	26.70	22.50	34.92	576.00	157.00	98.00	97.60	370.00	152.00	65.00
10	46.70	41.80	26.10	69.90	20.50	755.00	188.29	101.00	89.20	374.00	130.00	70.60
11	48.60	41.10	25.10	44.21	20.30	828.00	135.00	109.00	83.60	370.00	106.00	73.90
12	51.60	39.30	24.20	22.50	20.10	1079.00	136.00	195.00	79.10	329.00	94.10	81.61
13	55.20	38.60	23.80	21.50	20.00	826.00	126.00	152.00	96.30	197.00	90.20	76.74
14	51.00	38.00	33.37	20.50	21.90	442.00	128.00	106.00	81.20	177.71	82.70	91.10
15	46.03	38.00	23.30	36.52	40.20	200.00	117.00	105.97	102.89	172.52	139.15	69.73
16	45.12	43.60	22.90	34.92	37.00	156.00	106.00	84.85	104.00	147.58	130.04	69.73
17	50.40	42.43	22.90	34.92	30.60	157.00	101.00	77.33	106.00	596.00	109.06	69.73
18	54.60	41.56	22.20	23.00	40.30	177.00	97.00	81.80	114.00	383.00	78.30	83.60
19	53.40	33.60	21.80	66.10	66.50	272.00	98.00	76.50	117.00	222.00	80.90	76.50
20	51.60	33.60	21.50	61.60	51.80	883.00	118.00	73.50	92.80	184.00	76.50	70.60
21	58.10	32.40	21.20	45.60	35.40	629.00	105.00	75.70	81.80	238.00	72.30	75.70
22	71.80	39.84	20.90	33.20	46.40	666.00	95.00	75.20	76.50	224.00	69.00	74.80
23	85.00	39.00	20.90	26.50	47.10	281.00	92.00	92.80	73.10	291.25	71.40	69.00
24	81.61	37.40	20.70	21.50	47.40	710.00	106.00	125.00	69.00	175.00	71.40	64.20
25	67.47	35.50	20.70	20.60	46.10	580.00	94.62	120.00	80.90	153.00	73.10	56.73
26	60.91	34.20	20.70	28.20	41.80	897.00	134.00	132.00	149.00	155.00	71.40	66.60
27	52.20	33.60	20.50	27.40	45.00	1160.00	119.00	136.00	132.00	126.00	65.00	65.00
28	50.40	33.60	20.30	42.20	35.70	654.00	95.30	97.30	126.00	109.00	62.70	61.90
29	56.40	33.60	20.20	45.70	34.92	452.00	101.00	124.00	126.83	129.00	59.70	58.20
30	54.60	35.70	20.10	35.70	36.52	321.00	90.40	242.00	137.78	102.00	58.20	52.70
31	51.00	20.00	20.00	20.00	34.90	81.80	304.00	304.00	98.66	98.66	48.83	48.83
TOTAL	1689.37	1156.53	747.37	944.77	1123.99	14139.10	4385.41	3772.45	3646.60	6960.72	2836.35	2513.67
AVERAGE	54.50	39.88	24.11	31.49	36.26	471.30	141.66	121.69	120.55	224.54	94.55	74.63
MAXIMUM	85.00	50.40	33.37	69.90	66.50	1160.00	258.00	304.00	377.00	596.00	210.00	136.00
MINIMUM	42.43	38.40	20.00	20.00	20.00	31.00	81.80	67.20	69.00	98.66	58.20	48.83

***** ANNUAL *****
 ***** AVERAGE *****
 ***** MAXIMUM *****
 ***** MINIMUM *****
 ***** TOTAL *****
 ***** 43686.33 *****
 ***** 119.56 *****
 ***** 1160.00 *****
 ***** 20.00 *****

1993/ 1/18 (MON) 17:43:49

DAILY RIVER RUNOFF AT EL CAJON GAUGING STATION
 COMPENSATED BY LAGUNETAS GAUGING STATION

YEAR : 1977

DAY	1	2	3	4	5	6	7	8	9	10	11	12
1	46.97	35.50	27.10	18.90	39.00	777.00	119.00	171.64	69.10	147.58	85.10	46.60
2	45.12	33.90	31.80	18.90	46.00	606.00	73.68	367.00	83.40	58.90	69.00	46.00
3	45.12	33.40	29.90	18.50	51.90	236.00	84.53	168.00	97.80	115.00	142.00	45.30
4	44.21	32.90	28.40	18.20	75.50	166.00	95.51	116.00	95.30	90.50	124.00	43.50
5	43.32	32.90	28.00	18.20	59.50	124.00	129.00	107.00	71.80	126.00	126.00	41.70
6	41.56	32.30	27.10	17.80	51.90	947.00	132.00	93.30	64.20	94.10	94.10	41.10
7	46.00	38.80	26.60	20.63	46.20	467.00	126.00	94.20	58.90	86.40	80.90	39.40
8	45.30	33.90	26.60	22.37	48.00	237.00	103.00	114.00	80.20	74.80	71.40	39.40
9	44.70	32.90	26.20	24.24	40.90	207.00	99.90	117.00	96.40	68.20	63.40	38.20
10	44.10	32.90	26.20	20.80	74.70	231.00	77.40	96.10	66.60	64.20	59.70	37.70
11	43.50	32.30	25.30	20.80	50.50	180.00	69.00	97.30	59.70	61.20	55.30	46.00
12	43.50	31.80	24.80	21.20	41.70	102.77	64.20	87.00	59.70	92.30	176.95	39.90
13	42.30	31.30	24.40	21.20	33.90	87.30	59.70	83.60	64.20	80.70	79.10	73.50
14	41.70	30.80	24.00	20.40	40.00	75.70	56.00	81.80	73.40	70.60	69.00	47.90
15	41.10	30.40	23.60	20.40	31.30	125.00	54.60	80.40	73.68	65.80	61.20	48.10
16	40.50	30.40	23.20	20.00	28.00	166.00	54.60	88.30	63.40	61.90	56.70	45.70
17	39.90	34.00	22.30	19.60	25.30	131.00	66.60	89.30	76.70	58.90	53.90	37.70
18	39.90	33.90	22.30	19.30	32.20	135.00	60.40	214.00	84.70	56.00	51.20	35.50
19	43.50	32.90	21.90	25.70	56.30	129.00	57.50	163.00	132.00	53.90	54.60	34.90
20	42.30	32.90	21.60	27.10	33.90	137.00	58.90	91.60	154.00	53.20	100.00	44.70
21	41.10	33.90	21.60	23.20	30.40	151.00	56.70	82.70	104.00	65.80	80.90	36.60
22	39.90	31.80	21.20	22.30	28.00	167.00	74.10	84.50	81.80	61.20	66.70	44.70
23	38.80	30.80	21.20	20.00	25.70	125.00	98.10	69.00	70.60	68.34	58.90	65.30
24	38.20	29.90	21.20	21.79	24.40	102.00	88.30	67.40	91.60	90.66	54.60	44.10
25	38.20	28.90	20.40	33.90	23.20	128.00	75.70	92.60	78.30	64.20	69.30	41.15
26	37.70	28.40	20.40	26.60	40.30	138.08	65.00	90.10	148.00	56.00	56.70	38.20
27	38.20	28.00	20.00	23.20	34.40	146.00	73.50	80.00	152.00	117.00	55.30	37.10
28	37.70	27.50	19.60	20.80	46.95	160.00	68.20	70.60	375.00	73.10	51.90	37.70
29	37.10	27.50	19.60	19.60	36.52	117.00	71.40	63.40	219.00	94.00	49.80	36.60
30	36.60	19.30	19.30	33.40	129.00	130.00	72.30	59.70	201.00	104.84	48.50	35.50
31	36.00	19.30	19.30		189.00	145.18	53.29			98.66	31.11	
TOTAL	1284.10	901.30	735.10	659.05	1514.57	6610.85	2930.00	3333.83	3196.48	2473.98	2246.15	1320.86
AVERAGE	41.42	32.19	23.71	21.97	48.86	220.36	81.61	107.54	106.55	79.81	74.87	42.61
MAXIMUM	46.97	38.80	31.80	33.90	189.00	947.00	145.18	367.00	375.00	147.58	176.95	73.50
MINIMUM	36.00	27.50	19.30	17.80	23.20	75.70	54.60	53.29	58.90	53.20	48.50	31.11

***** ANNUAL *****
 ***** TOTAL AVERAGE MAXIMUM MINIMUM *****
 ***** 26806.27 73.44 947.00 17.80 *****

DAILY RIVER RUNOFF AT EL CAJON GAUGING STATION
 COMPENSATED BY LAGUNETAS GAUGING STATION

YEAR : 1978

#DAY*	1	2	3	4	5	6	7	8	9	10	11	12
1	31.85	42.90	21.90	18.50	17.93	133.43	188.00	94.62	106.00	208.20	91.60	65.60
2	32.90	37.70	20.80	18.90	15.20	130.58	266.00	77.33	149.00	238.00	112.00	59.00
3	31.80	35.50	20.40	17.80	109.00	204.00	204.00	77.70	163.00	206.00	111.00	56.70
4	54.10	33.90	19.60	17.50	16.50	83.90	121.00	121.00	41.00	241.00	98.30	55.20
5	41.50	38.20	20.00	16.50	13.60	77.00	130.00	169.00	589.00	203.00	87.40	53.70
6	36.00	41.70	21.40	16.50	12.80	107.00	93.30	149.00	661.00	236.00	82.30	52.90
7	33.90	39.90	23.60	16.80	12.50	227.00	94.80	155.00	338.00	153.00	101.00	50.80
8	31.80	36.60	21.60	16.50	12.20	143.00	96.64	138.00	298.00	138.00	101.00	52.90
9	32.90	32.90	20.40	16.10	12.20	92.60	100.70	120.00	248.00	134.00	82.30	59.00
10	36.60	30.80	19.60	15.80	12.20	73.68	92.00	98.30	196.39	122.00	75.50	115.00
11	34.40	29.90	19.30	15.50	13.10	59.80	113.00	85.30	158.00	118.00	73.68	98.80
12	32.90	68.90	19.30	14.80	12.50	58.20	106.94	80.30	138.00	116.00	70.00	93.30
13	31.30	28.40	18.90	14.50	11.90	61.30	176.00	125.00	122.00	101.00	65.60	94.90
14	30.40	28.00	18.50	17.00	12.20	83.90	229.00	132.00	118.00	122.00	64.80	141.00
15	33.90	26.19	17.80	26.20	19.30	26.70	163.00	184.63	113.00	122.00	63.10	118.00
16	32.30	25.70	17.50	19.00	21.20	161.00	300.33	135.74	108.00	158.00	107.00	89.50
17	30.40	24.80	17.10	16.80	17.10	116.00	270.00	108.00	93.80	365.00	81.30	77.40
18	28.90	24.40	17.50	15.50	14.50	87.00	266.00	178.00	88.40	276.00	63.17	71.80
19	28.00	23.60	21.20	14.20	14.20	73.80	305.00	125.00	94.90	203.00	59.80	65.60
20	27.10	23.60	23.60	13.90	23.30	122.00	203.00	104.00	105.00	217.00	68.20	62.30
21	28.00	24.00	22.80	17.40	38.70	97.20	236.00	93.80	96.00	179.00	66.50	59.00
22	29.40	24.00	21.60	46.10	36.90	117.00	221.00	151.00	195.00	148.00	72.70	56.70
23	31.80	28.90	25.54	53.90	32.40	106.00	307.00	142.00	132.00	126.00	66.50	54.40
24	29.90	25.70	27.55	32.50	87.10	91.00	260.00	168.00	144.00	114.00	107.00	52.90
25	28.90	24.40	23.20	29.40	280.00	74.10	176.00	148.00	151.00	105.00	98.00	39.00
26	28.90	23.60	24.00	29.40	243.00	68.90	156.00	184.00	153.00	98.30	80.30	51.50
27	29.40	23.20	22.30	24.00	101.00	94.60	130.00	312.00	366.00	137.00	72.70	50.10
28	30.40	23.20	21.90	20.40	124.00	150.00	113.00	213.14	275.00	137.00	67.30	49.40
29	33.40		20.90	18.90	155.00	112.00	105.00	136.00	198.00	108.00	63.10	48.70
30	65.00		18.90	17.80	112.00	143.00	90.50	130.00	313.00	87.90	61.40	47.30
31	58.20		17.90		231.00		111.00	106.00		80.30		45.30
TOTAL	1066.25	870.59	646.59	628.40	1740.73	3080.69	5444.21	4241.86	6309.49	4995.70	2414.55	2037.70
AVERAGE	34.40	31.09	20.86	20.95	56.15	102.69	175.62	136.83	210.32	161.15	80.49	67.33
MAXIMUM	65.00	68.90	27.55	53.90	280.00	227.00	307.00	312.00	661.00	365.00	112.00	141.00
MINIMUM	27.10	23.20	17.10	13.90	11.90	26.70	90.50	77.33	88.40	80.30	59.80	39.00

***** ANNUAL *****
 ***** TOTAL AVERAGE MAXIMUM MINIMUM *****
 ***** 33526.76 91.85 661.00 11.90 *****

1993/ 1/18 (MON) 17:43:49

DAILY RIVER RUNOFF AT EL CAJON GAUGING STATION
 COMPENSATED BY LAGUNETAS GAUGING STATION

YEAR : 1979

DAY*	1	2	3	4	5	6	7	8	9	10	11	12
1	32.60	26.20	23.62	21.79	34.29	33.06	438.62	81.05	151.27	290.36	94.62	81.61
2	44.00	25.80	23.00	20.83	40.72	33.06	579.95	136.16	183.61	321.89	90.66	68.99
3	46.00	24.90	21.79	20.07	40.65	35.53	517.59	141.86	150.14	296.71	86.76	66.35
4	45.30	24.50	21.79	19.52	29.30	137.19	373.93	160.94	278.80	372.04	80.43	66.35
5	44.70	23.60	21.21	18.97	43.56	165.69	283.56	139.28	262.56	472.92	79.19	67.50
6	44.00	23.60	21.21	18.44	48.69	166.22	404.69	108.05	471.64	525.83	84.85	66.32
7	42.80	23.20	21.21	18.49	35.72	185.39	380.73	90.63	495.78	462.53	92.64	58.11
8	42.10	22.80	21.79	20.07	44.51	364.03	275.81	104.51	391.11	432.01	100.70	57.76
9	44.70	23.20	22.39	18.44	59.39	480.05	249.86	123.44	473.57	526.32	96.64	58.29
10	44.00	25.80	22.39	17.93	42.77	400.26	193.74	193.58	396.42	1063.49	82.02	59.32
11	42.10	29.40	21.79	17.41	37.55	359.75	156.23	144.53	282.17	1013.20	72.79	58.29
12	40.30	29.00	21.21	17.41	40.95	302.99	133.43	144.98	482.29	958.09	70.11	52.70
13	38.50	27.60	20.63	17.41	45.67	241.66	116.24	125.83	592.55	823.71	77.55	51.72
14	37.30	28.00	20.63	17.41	58.68	234.19	102.08	138.47	419.66	705.19	562.77	53.69
15	36.20	27.60	20.07	17.41	73.28	442.91	90.66	146.28	312.27	493.44	475.91	62.80
16	36.20	26.20	20.07	16.92	63.32	460.31	92.65	170.48	255.84	354.26	225.59	57.76
17	36.20	25.30	20.07	17.93	43.69	230.00	79.19	268.31	214.47	290.44	153.84	52.70
18	35.10	23.60	20.07	20.07	34.94	158.43	76.42	584.05	219.78	257.21	128.84	55.50
19	34.60	22.80	20.07	31.10	31.11	142.04	87.19	403.06	186.42	246.20	117.67	102.48
20	34.00	23.60	20.07	70.16	28.24	164.40	100.07	350.31	187.79	222.11	105.91	91.59
21	33.00	24.00	21.21	53.13	26.87	135.45	107.38	409.57	172.52	185.69	96.64	68.64
22	31.90	23.60	21.79	37.91	26.19	121.46	117.84	355.42	203.42	187.59	92.64	59.85
23	31.40	23.20	21.79	50.16	25.21	214.93	148.42	312.67	204.52	269.81	86.76	54.69
24	30.90	22.00	21.21	59.79	37.73	334.75	150.87	227.65	254.34	238.05	80.12	51.24
25	29.40	20.90	21.21	59.00	47.65	257.66	123.30	181.28	235.56	163.71	77.33	49.78
26	29.40	20.50	20.07	35.33	44.22	182.37	94.82	154.48	283.39	133.43	75.50	55.72
27	29.00	21.20	19.52	30.13	40.27	183.80	91.02	136.54	210.32	117.67	73.24	59.89
28	23.20	21.20	19.52	42.64	38.81	231.83	198.59	139.99	181.06	106.94	68.34	53.70
29	23.20	23.00	23.00	47.32	29.32	231.83	127.19	128.59	219.58	107.82	88.83	48.83
30	23.20	23.00	23.00	43.98	28.65	433.78	110.23	137.78	520.30	102.77	142.79	47.65
31	22.80	20.50	23.00	33.25	33.25	96.30	164.10	164.10	100.70	100.70	45.12	45.12
TOTAL	1108.10	683.30	660.40	876.97	1255.20	7065.02	6098.40	6113.67	8885.19	11642.13	3761.68	1893.74
AVERAGE	35.75	24.40	21.30	29.23	40.49	235.50	196.72	197.22	296.17	382.00	125.59	60.77
MAXIMUM	46.00	29.40	23.62	70.16	73.28	480.05	579.95	584.05	592.55	1063.49	562.77	102.48
MINIMUM	22.80	20.50	19.52	16.92	25.21	33.06	76.42	81.05	151.27	100.70	68.34	45.12

***** ANNUAL *****
 ***** TOTAL AVERAGE MAXIMUM MINIMUM *****
 ***** 50233.80 137.65 1063.49 16.92 *****

1993/ 1/18 (MON) 17:43:49

DAILY RIVER RUNOFF AT EL CAJON GAUGING STATION
 COMPENSATED BY LAGUNETAS GAUGING STATION

YEAR : 1980

DAY	1	2	3	4	5	6	7	8	9	10	11	12
1	43.32	30.37	23.62	18.44	21.79	36.57	58.15	145.18	61.47	147.58	181.81	52.70
2	43.32	30.37	24.24	18.44	20.63	32.87	68.72	162.35	61.47	202.65	182.16	48.83
3	42.87	30.37	24.24	18.44	22.39	36.27	54.89	138.08	56.51	131.12	117.67	47.89
4	41.56	31.11	27.56	18.44	24.24	121.03	47.08	169.34	74.34	240.46	117.67	52.70
5	45.42	31.12	26.87	18.44	38.71	191.35		142.79	69.17	196.52	195.62	47.89
6	57.15	30.37	25.21	18.44	38.16	113.43	71.87	185.88	61.47	278.60	320.98	46.03
7	52.22	30.37	24.24	18.44	27.55	113.86	79.19	147.58	59.80	279.93	521.78	46.03
8	47.89	29.65	23.62	18.44	24.24	71.60	75.58	119.87	56.51	254.27	422.67	45.12
9	46.03	29.65	23.00	18.44	21.21	79.90	117.08	146.02	102.13	253.70	250.73	48.83
10	43.32	28.94	22.39	18.44	20.63	71.48	84.15	138.77	173.95	218.71	188.61	46.03
11	42.43	28.24	22.39	18.44	21.21	181.97	58.15	115.50	410.55	189.22	156.35	47.86
12	40.69	28.24	21.79	18.97	19.52	265.08	109.06	119.87	802.77	180.33	135.74	77.95
13	39.00	27.55	21.79	19.52	19.52	145.40	145.40	102.77	1161.75	159.85	124.32	68.98
14	38.16	27.55	21.79	19.52	20.07	658.18	115.47	109.06	665.72	149.05	111.18	67.47
15	38.16	26.87	21.21	19.52	18.97	624.05	113.08	100.70	440.87	227.39	100.70	68.60
16	39.00	26.19	21.21	19.52	18.44	348.50	88.79	94.62	289.54	264.69	94.62	59.85
17	38.16	26.19	21.21	20.07	17.93	220.85	80.52	96.64	251.51	240.21	89.48	53.69
18	36.73	25.54	21.21	20.63	17.93	155.02	64.88	106.94	202.36	180.80	96.66	49.78
19	38.16	25.54	20.63	22.39	17.93	130.47	54.89	134.44	188.29	241.66	84.85	46.95
20	36.52	25.54	20.63	24.88	16.92	165.35	78.48	172.25	163.61	190.79	88.71	45.12
21	36.52	24.88	20.63	26.87	17.41	215.66	106.29	196.95	133.43	248.14	88.71	48.83
22	35.72	24.88	20.07	27.56	17.41	181.34	140.46	222.95	144.85	267.12	82.94	59.85
23	34.92	24.24	20.07	25.54	25.28	136.55	295.46	169.22	133.43	215.71	75.50	66.35
24	35.12	24.24	19.52	23.00	37.29	150.02	326.25	155.82	106.94	183.88	84.85	61.98
25	36.52	23.62	19.52	21.79	26.87	128.84	264.31	128.84	100.70	206.85	91.47	57.18
26	34.14	23.62	19.52	20.63	50.27	115.50	198.73	96.64	102.77	171.79	90.66	89.85
27	32.41	23.62	19.52	20.07	43.89	88.71	181.04	82.94	147.58	239.04	77.33	75.46
28	31.98	23.62	18.97	19.52	34.14	71.89	145.18	141.79	145.18	164.06	73.68	72.03
29	32.60	23.62	18.97	21.79	33.37	88.56	157.36	84.85	182.96	145.18	79.19	61.98
30	31.85	18.44	18.44	21.79	31.85	68.34	185.09	73.68	210.94	138.73	79.19	55.71
31	31.11	18.44	18.44	18.44	35.72	126.57	126.57	66.60	119.87	119.87	50.75	50.75
TOTAL	1233.00	786.11	672.52	616.42	805.49	5380.74	3692.17	4068.93	6761.77	6464.60	4401.28	1768.27
AVERAGE	39.45	27.11	21.69	20.55	25.98	179.36	123.07	131.26	225.39	208.54	146.71	57.04
MAXIMUM	57.15	31.12	27.56	27.56	50.27	658.18	326.25	322.95	1161.75	279.93	521.78	89.85
MINIMUM	31.11	23.62	18.44	18.44	16.92	33.87	47.08	66.60	56.51	119.87	73.68	45.12

 ANNUAL

 TOTAL / AVERAGE / MAXIMUM / MINIMUM /
 36641.30 / 100.39 / 1161.75 / 16.92

DAILY RIVER RUNOFF AT EL CAJON GAUGING STATION
 COMPENSATED BY LAGUNETAS GAUGING STATION

YEAR : 1981

DAY	1	2	3	4	5	6	7	8	9	10	11	12
1	47.01	27.55	26.19	19.52	16.92	86.76	218.68	127.86	401.00	237.00	190.87	54.60
2	46.95	28.24	25.54	19.52	16.92	71.89	232.87	119.87	357.00	301.03	148.00	53.60
3	47.89	28.24	25.54	18.97	16.92	79.33	192.63	113.00	373.00	379.78	160.00	57.30
4	46.03	31.11	25.54	18.97	16.92	64.88	142.79	119.00	355.00	251.00	134.00	51.70
5	46.03	31.85	24.24	18.44	17.41	62.05	147.58	100.00	253.00	212.00	118.00	45.12
6	45.12	31.11	24.24	17.93	20.63	101.39	115.50	86.80	167.41	277.65	108.00	84.70
7	45.12	32.60	23.00	17.93	21.21	84.85	98.66	92.50	650.00	361.00	108.00	82.70
8	45.32	31.85	23.00	17.93	20.07	98.66	90.66	140.43	453.00	382.00	102.00	66.50
9	40.69	28.94	23.62	17.93	18.97	283.78	113.33	119.87	546.00	266.00	98.50	66.50
10	39.84	28.24	23.00	17.41	17.41	286.58	177.00	92.64	382.00	258.00	102.77	84.10
11	39.00	26.87	23.00	17.41	16.92	307.24	186.00	84.85	275.00	367.00	89.60	82.70
12	39.00	26.87	23.62	17.41	15.95	167.41	138.00	251.11	618.00	366.00	88.20	70.00
13	41.56	27.55	23.00	17.41	15.95	152.44	317.00	297.00	662.00	234.00	85.50	62.00
14	39.00	28.24	22.39	19.52	16.43	204.64	262.00	282.00	400.00	188.00	81.40	58.70
15	38.16	28.94	23.00	19.52	16.43	251.11	187.00	276.00	442.88	162.00	78.80	55.60
16	36.52	28.94	23.62	21.70	15.95	310.94	146.00	435.50	1199.00	150.00	76.20	53.60
17	34.92	27.55	23.00	21.21	15.95	257.11	128.00	476.00	574.00	140.00	73.70	50.70
18	34.92	27.55	23.00	19.52	15.49	248.21	171.00	397.60	394.00	128.00	70.00	49.80
19	34.14	27.55	26.28	20.63	15.95	219.63	202.00	399.37	381.00	121.00	68.80	49.80
20	34.14	33.45	28.24	24.26	16.43	210.49	130.00	280.34	288.00	221.05	66.50	44.21
21	33.37	51.76	24.88	21.79	15.49	402.25	108.00	254.00	269.00	128.00	65.40	55.71
22	32.60	44.52	23.00	21.79	15.49	431.00	219.00	366.00	231.00	142.00	63.10	54.69
23	32.60	37.34	22.39	19.52	15.49	492.15	159.00	605.00	207.38	136.00	62.00	57.70
24	31.85	32.60	21.79	18.44	15.95	509.59	178.00	429.00	284.00	142.00	59.80	54.60
25	31.11	29.65	21.79	17.93	17.41	306.15	194.00	1697.00	1135.00	226.00	57.70	40.69
26	31.11	28.24	21.21	17.93	21.79	270.56	126.57	1194.00	591.00	178.00	55.60	50.70
27	30.37	27.55	20.63	17.41	23.62	233.20	148.00	650.00	455.00	199.00	54.60	47.90
28	29.65	26.87	20.07	21.79	21.79	224.86	110.00	431.55	291.00	293.00	53.60	46.10
29	28.24	26.87	19.52	17.41	27.75	448.76	123.00	485.00	280.00	238.00	53.29	44.30
30	28.24	19.52	19.52	16.92	43.57	308.95	122.00	269.00	298.00	225.00	55.60	42.60
31	27.55	20.07	20.07	20.07	51.72	108.00	108.00	242.00	181.00	181.00	37.34	37.34
TOTAL	1156.05	861.77	717.93	589.69	615.36	7176.86	4992.27	11094.30	113212.67	7090.51	2629.53	1756.26
AVERAGE	37.29	30.78	23.16	18.99	19.85	239.23	161.04	354.01	440.42	228.73	87.65	56.65
MAXIMUM	47.89	51.76	28.24	24.26	51.72	509.59	317.00	1697.00	1199.00	382.00	190.87	84.70
MINIMUM	27.55	26.87	19.52	16.92	15.49	62.05	90.66	84.85	167.41	121.00	53.29	37.34

 ANNUAL

 TOTAL AVERAGE MAXIMUM MINIMUM

 51755.20 141.79 1697.00 15.49

DAILY RIVER RUNOFF AT EL CAJON GAUGING STATION
 COMPENSATED BY LAGUNETAS GAUGING STATION

YEAR : 1982

DAY	1	2	3	4	5	6	7	8	9	10	11	12
1	41.80	30.60	28.60	17.41	17.41	88.71	82.94	210.22	188.29	634.86	145.50	65.60
2	40.90	29.90	28.60	17.41	22.39	68.34	66.34	154.89	215.87	332.43	140.60	64.50
3	40.10	29.20	39.30	28.00	11.40	59.80	66.60	168.82	194.87	215.87	128.20	63.40
4	38.50	29.20	32.60	27.30	12.80	96.94	79.19	242.27	209.55	447.26	110.30	62.30
5	40.90	29.90	28.00	26.70	20.50	96.64	197.46	207.42	190.97	392.49	149.90	72.30
6	49.80	30.60	24.90	26.70	18.60	88.71	127.24	193.60	210.22	321.17	175.90	64.50
7	43.50	24.24	23.20	26.10	11.70	103.43	86.76	138.08	184.62	248.08	144.30	69.80
8	41.80	29.20	24.40	16.92	12.00	102.77	94.62	111.18	150.00	199.12	124.80	65.60
9	42.60	35.00	26.70	16.43	24.90	114.44	112.92	98.66	115.50	159.85	115.00	62.30
10	41.80	37.50	28.00	26.10	25.60	124.32	75.50	128.33	100.70	249.97	115.00	59.20
11	40.90	42.40	29.90	26.10	22.10	218.28	75.50	135.28	104.84	242.08	123.20	57.20
12	36.50	33.30	28.60	27.30	22.70	263.51	163.79	102.77	92.64	175.11	111.90	55.20
13	36.20	29.90	26.70	26.70	35.50	657.12	190.63	84.85	113.33	138.08	102.70	54.20
14	36.20	25.54	24.90	26.70	29.20	725.09	122.09	77.33	133.43	173.84	98.40	53.30
15	34.80	24.88	23.80	23.20	21.00	471.29	207.02	96.64	130.48	257.21	94.10	52.30
16	34.80	23.00	23.20	20.00	23.80	301.70	152.44	152.44	152.44	172.52	91.40	52.30
17	34.00	30.60	22.10	18.10	22.70	229.19	126.57	150.97	150.00	147.58	88.70	56.20
18	33.30	22.39	22.10	11.40	44.40	204.70	102.77	122.09	161.58	135.74	86.70	47.91
19	32.60	28.60	21.00	11.70	57.40	188.29	96.64	138.08	180.33	124.32	92.70	40.69
20	35.20	29.90	21.00	19.50	366.00	164.87	90.66	154.89	152.44	115.50	66.60	60.20
21	34.80	32.60	20.50	19.10	179.00	142.79	111.18	140.43	140.43	177.71	59.80	58.20
22	34.00	30.60	20.00	11.70	121.00	126.57	114.45	102.77	119.87	135.74	78.40	55.20
23	32.60	26.70	20.00	12.40	161.00	207.42	154.01	149.66	117.67	117.67	75.90	52.30
24	31.20	22.39	20.00	12.40	348.00	177.44	197.65	115.50	115.50	102.77	73.50	50.40
25	31.20	21.79	20.00	12.40	198.00	138.08	213.04	113.33	109.06	98.66	73.50	30.37
26	31.90	21.79	19.50	12.40	128.00	229.50	145.18	131.12	171.80	90.66	75.90	48.60
27	30.60	24.40	19.50	12.40	92.60	204.93	111.18	201.88	296.90	100.70	74.70	52.30
28	29.90	24.40	19.10	12.40	75.00	135.74	92.64	138.08	301.02	104.84	78.40	52.30
29	25.54		19.10	12.40	93.80	104.84	111.18	164.87	366.87	98.66	71.20	49.50
30	26.87		19.10	12.40	124.00	88.71	98.66	196.39	628.11	140.43	66.70	48.60
31	29.20		18.60		138.00		153.98	135.74		120.79		46.80
TOTAL	1117.01	792.92	743.00	569.77	2480.50	5926.16	3822.83	4458.64	5499.33	6171.71	3035.90	1723.57
AVERAGE	36.03	28.32	23.97	18.99	80.02	197.54	123.32	143.83	183.31	199.09	101.20	55.60
MAXIMUM	49.80	42.40	39.30	28.00	366.00	725.09	213.04	242.27	628.11	634.86	175.90	72.30
MINIMUM	23.54	21.79	18.60	11.40	11.40	59.80	66.60	77.33	92.64	90.66	59.80	30.37

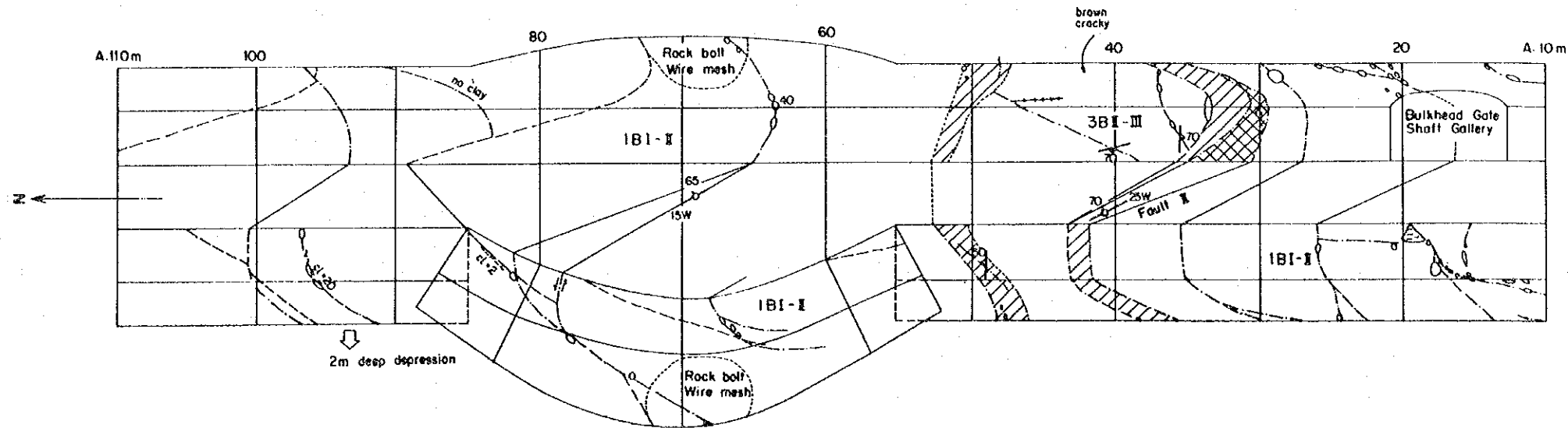
 ANNUAL

 TOTAL AVERAGE MAXIMUM MINIMUM

 36341.34 99.57 725.09 11.40

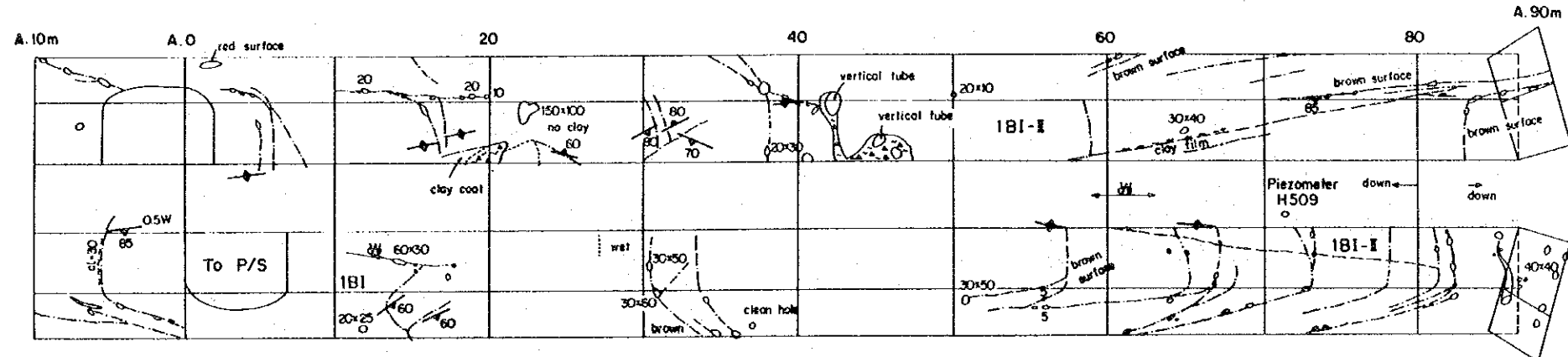
AP-2 GEOLOGY

A Tunnel

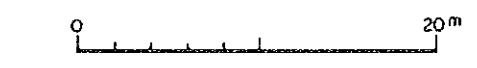
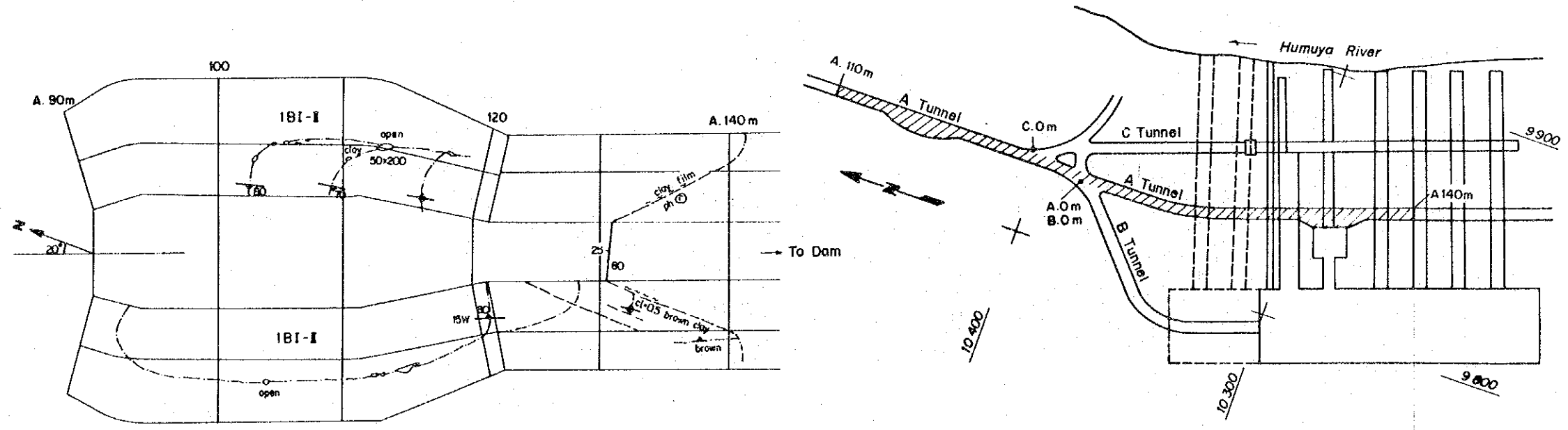
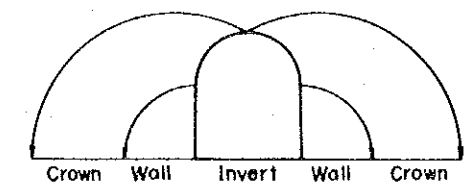


LEGEND

- Massive Sublithographic Limestone
- Strike and Dip of Fault
- Strike and Dip of Joint
- Solution Cavity or Tube
- Clay
- Calcite Vein
- Cracky Zone
- Sheared Zone
- Water Inflow
- Dripping Water



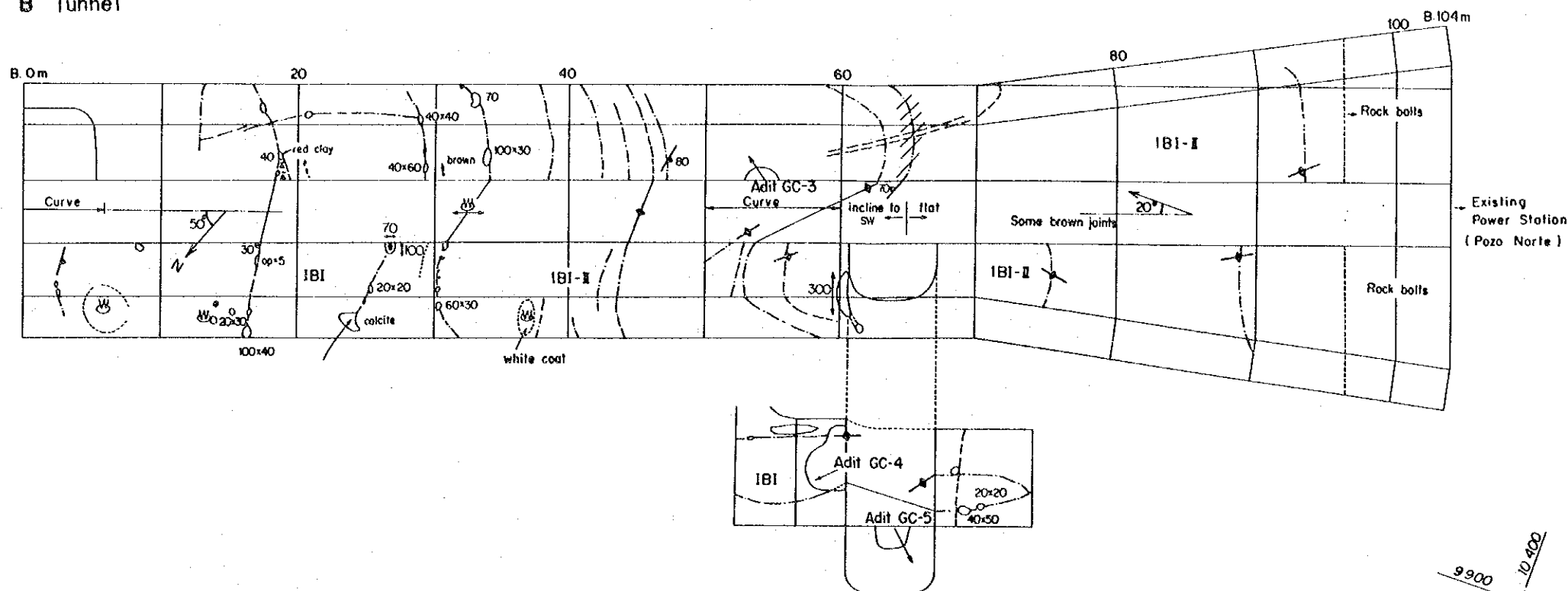
Layout of Walls and Crown



REPUBLIC OF HONDURAS
 AMPLIFICATION PROJECT OF
 EL CAJON HYDROELECTRIC POWER PLANT
 GEOLOGY
 LOG OF SANTA BARBAR TUNNEL
 (1 of 2)

Figure 1

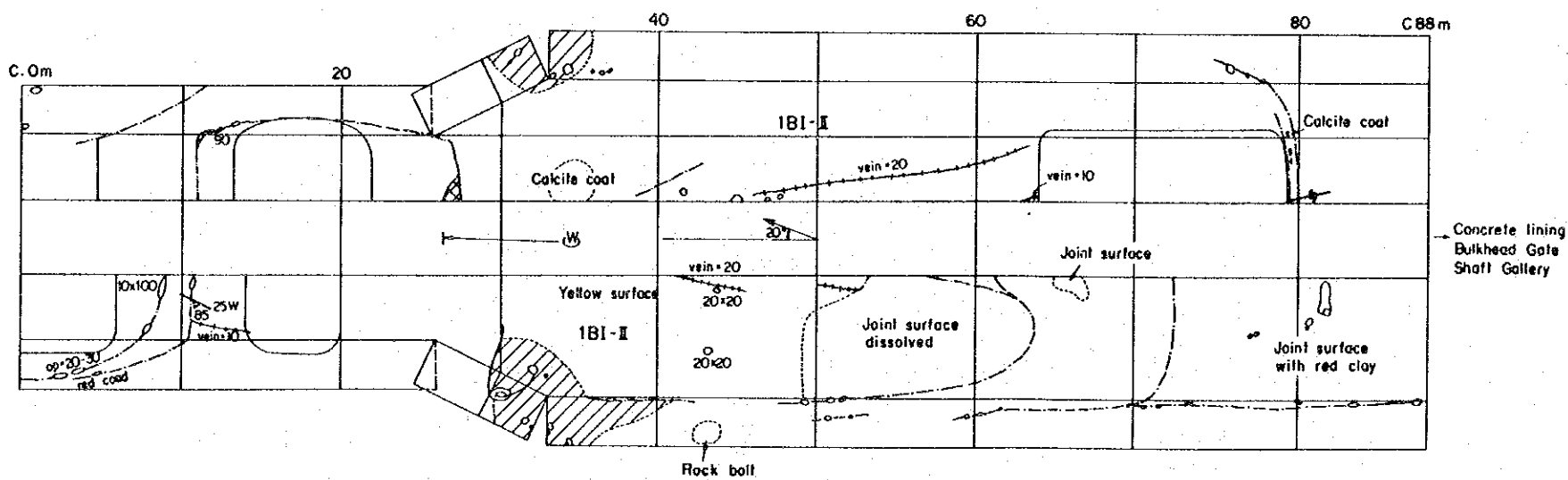
B Tunnel



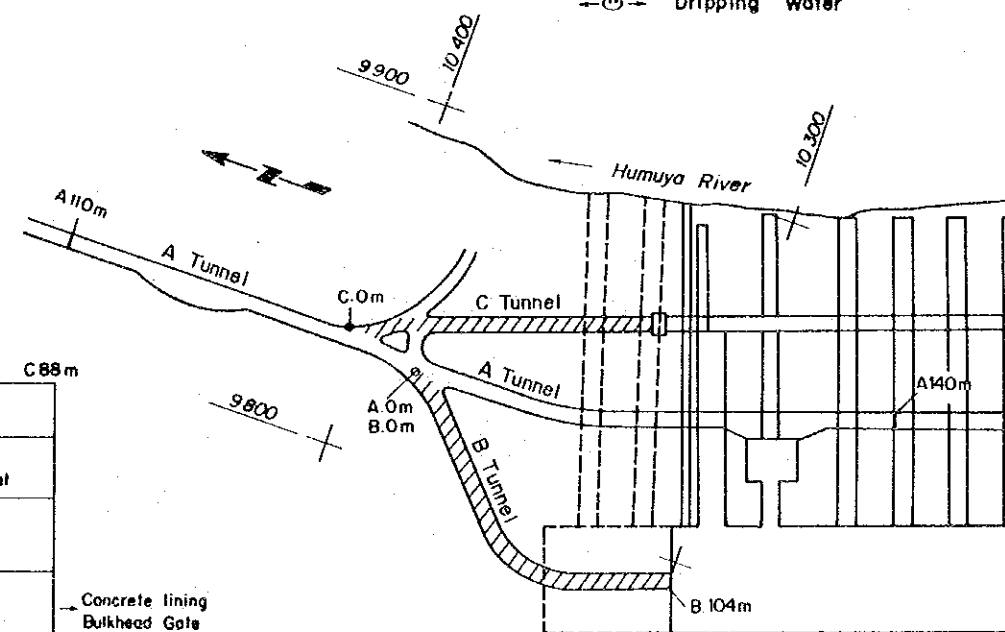
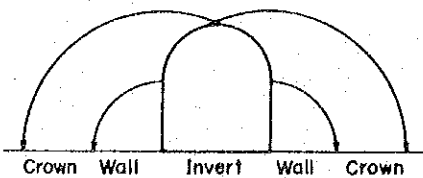
LEGEND

- Massive Sublithographic Limestone
- Strike and Dip of Fault
- Strike and Dip of Joint
- Solution Cavity or Tube
- Clay
- Calcite Vein
- Cracky Zone
- Water Inflow
- Dripping Water

C Tunnel



Layout of Walls and Crown



REPUBLIC OF HONDURAS	
AMPLIFICATION PROJECT OF EL CAJON HYDROELECTRIC POWER PLANT	
GEOLOGY	
LOG OF SANTA BARBAR TUNNEL	
(2 of 2)	
Figure 2	

AP-3 REMOTE TRANSMISSION SYSTEM

A NETWORK DESIGN OUTLINE FOR HONDURAS

STATION NAME	REPEATER STATION		SULACO	
LOCATION	W	87° 31' 47"	W	87° 15' 54"
	N	14° 46' 10"	N	14° 54' 36"
ANTENNA	3 STEPS DIPOLE		3EL YAGI	
ALTITUDE	1770 m		410 m	
GROUND LEVEL	1710 m		400 m	
ANT HEIGHT	60 m		10 m	
ANT POINTING	N61°		N241°	
COAXIAL LENGTH	10D-2V	70 m	10D-2V	20 m
DISTANCE	32.5 km			

STATION NAME	REPEATER STATION		VALLECILLO	
LOCATION	W	87° 31' 47"	W	87° 23' 45"
	N	14° 46' 10"	N	14° 31' 03"
ANTENNA	3 STEPS DIPOLE		3EL YAGI	
ALTITUDE	1770 m		970 m	
GROUND LEVEL	1710 m		940 m	
ANT HEIGHT	60 m		30 m	
ANT POINTING	N153°		N333°	
COAXIAL LENGTH	10D-2V	70 m	10D-2V	40 m
DISTANCE	31.4 km			

STATION NAME	REPEATER STATION		ESQUIAS	
LOCATION	W	87° 31' 47"	W	87° 22' 10"
	N	14° 46' 10"	N	14° 44' 29"
ANTENNA	3 STEPS DIPOLE		3EL YAGI	
ALTITUDE	1770 m		670 m	
GROUND LEVEL	1710 m		660 m	
ANT HEIGHT	60 m		10 m	
ANT POINTING	N100°		N280°	
COAXIAL LENGTH	10D-2V	70 m	10D-2V	20 m
DISTANCE	17.5 km			

STATION NAME	REPEATER STATION		SAN IGNACIO	
LOCATION	W	87° 31' 47"	W	87° 02' 26"
	N	14° 46' 10"	N	14° 39' 23"
ANTENNA	3 STEPS DIPOLE		3EL YAGI	
ALTITUDE	1770 m		710 m	
GROUND LEVEL	1710 m		700 m	
ANT HEIGHT	60 m		10 m	
ANT POINTING	N103°		N283°	
COAXIAL LENGTH	10D-2V	70 m	10D-2V	20 m
DISTANCE	54.1 km			

STATION NAME	REPEATER STATION		MARLE	
LOCATION	W	87° 31' 47"	W	87° 10' 02"
	N	14° 46' 10"	N	14° 53' 39"
ANTENNA	3 STEPS DIPOLE		3EL YAGI	
ALTITUDE	1770 m		710 m	
GROUND LEVEL	1710 m		700 m	
ANT HEIGHT	60 m		10 m	
ANT POINTING	N70°		N251°	
COAXIAL LENGTH	10D-2V	70 m	10D-2V	20 m
DISTANCE	41.4 km			

STATION NAME	LOS PICACHOS		PALMITAL	
LOCATION	W	87° 48' 30"	W	87° 48' 54"
	N	15° 01' 33"	N	14° 51' 13"
ANTENNA	3 STEPS DIPOLE		3EL YAGI	
ALTITUDE	1013 m		850 m	
GROUND LEVEL	983 m		840 m	
ANT HEIGHT	30 m		10 m	
ANT POINTING	N182°		N2°	
COAXIAL LENGTH	10D-2V	40 m	10D-2V	20 m
DISTANCE	19.1 km			

STATION NAME	REPEATER STATION		PUEBLO NUEVO	
LOCATION	W	87° 31' 47"	W	87° 46' 37"
	N	14° 46' 10"	N	14° 45' 42"
ANTENNA	3 STEPS DIPOLE		3EL YAGI	
ALTITUDE	1770 m		590 m	
GROUND LEVEL	1710 m		580 m	
ANT HEIGHT	60 m		10 m	
ANT POINTING	N268°		N88°	
COAXIAL LENGTH	10D-2V	70 m	10D-2V	20 m
DISTANCE	26.6 k m			

STATION NAME	REPEATER STATION		LOS PICACHOS	
LOCATION	W	87° 31' 47"	W	87° 48' 30"
	N	14° 46' 10"	N	15° 01' 33"
ANTENNA	3EL YAGI		3EL YAGI	
ALTITUDE	1770 m		1013 m	
GROUND LEVEL	1710 m		983 m	
ANT HEIGHT	60 m		30 m	
ANT POINTING	N313°		N133°	
COAXIAL LENGTH	10D-2V	70 m	10D-2V	40 m
DISTANCE	41.3 k m			

STATION NAME	REPEATER STATION		SAN JERONIMO	
LOCATION	W	87° 31' 47"	W	87° 36' 15"
	N	14° 46' 10"	N	14° 37' 33"
ANTENNA	3 STEPS DIPOLE		3EL YAGI	
ALTITUDE	1770 m		510 m	
GROUND LEVEL	1710 m		500 m	
ANT HEIGHT	60 m		10 m	
ANT POINTING	N207°		N27°	
COAXIAL LENGTH	10D-2V	70 m	10D-2V	20 m
DISTANCE	17.8 k m			

STATION NAME	REPEATER STATION		SIALE	
LOCATION	W	87° 31' 47"	W	87° 12' 07"
	N	14° 46' 10"	N	14° 51' 29"
ANTENNA	3 STEPS DIPOLE		3EL YAGI	
ALTITUDE	1770 m		520 m	
GROUND LEVEL	1710 m		460 m	
ANT HEIGHT	60 m		60 m	
ANT POINTING	N74°		N254°	
COAXIAL LENGTH	10D-2V 70 m		10D-2V 70 m	
DISTANCE	36.6 k m			

STATION NAME	REPEATER STATION		EL JICARO	
LOCATION	W	87° 31' 47"	W	87° 27' 12"
	N	14° 46' 10"	N	14° 55' 18"
ANTENNA	3 STEPS DIPOLE		3EL YAGI	
ALTITUDE	1770 m		380 m	
GROUND LEVEL	1710 m		320 m	
ANT HEIGHT	60 m		60 m	
ANT POINTING	N26°		N206°	
COAXIAL LENGTH	10D-2V 70 m		10D-2V 70 m	
DISTANCE	18.7 k m			

STATION NAME	REPEATER STATION		LOS ENCUENTROS	
LOCATION	W	87° 31' 47"	W	87° 12' 33"
	N	14° 46' 10"	N	14° 49' 00"
ANTENNA	3 STEPS DIPOLE		3EL YAGI	
ALTITUDE	1770 m		960 m	
GROUND LEVEL	1710 m		900 m	
ANT HEIGHT	60 m		60 m	
ANT POINTING	N81°		N261°	
COAXIAL LENGTH	10D-2V 70 m		10D-2V 70 m	
DISTANCE	34.9 k m			

STATION NAME	LOS PICACHOS		SANTA ELENA	
LOCATION	W	87° 48' 30"	W	87° 54' 50"
	N	15° 01' 33"	N	14° 52' 40"
ANTENNA	3 STEPS DIPOLE		3EL YAGI	
ALTITUDE	1013 m		760 m	
GROUND LEVEL	983 m		700 m	
ANT HEIGHT	30 m		60 m	
ANT POINTING	N215°		N35°	
COAXIAL LENGTH	10D-2V	40 m	10D-2V	70 m
DISTANCE	19.9 km			

STATION NAME	REPEATER STATION		MARAGUA	
LOCATION	W	87° 31' 47"	W	87° 44' 58"
	N	14° 46' 10"	N	14° 48' 26"
ANTENNA	3 STEPS DIPOLE		3EL YAGI	
ALTITUDE	1770 m		400 m	
GROUND LEVEL	1710 m		340 m	
ANT HEIGHT	60 m		60 m	
ANT POINTING	N28°		N100°	
COAXIAL LENGTH	10D-2V	70 m	10D-2V	70 m
DISTANCE	24.0 km			

STATION NAME	REPEATER STATION		GUACAMAYA	
LOCATION	W	87° 31' 47"	W	87° 38' 12"
	N	14° 46' 10"	N	14° 44' 17"
ANTENNA	3 STEPS DIPOLE		3EL YAGI	
ALTITUDE	1770 m		480 m	
GROUND LEVEL	1710 m		420 m	
ANT HEIGHT	60 m		60 m	
ANT POINTING	N253°		N73°	
COAXIAL LENGTH	10D-2V	70 m	10D-2V	70 m
DISTANCE	12.0 km			

STATION NAME	LOS PICACHOS		EL CAJON	
LOCATION	W	87° 48' 30"	W	87° 45' 19"
	N	15° 01' 33"	N	15° 01' 02"
ANTENNA	3 STEPS DIPOLE		3EL YAGI	
ALTITUDE	1013 m		510 m	
GROUND LEVEL	983 m		500 m	
ANT HEIGHT	30 m		10 m	
ANT POINTING	N99°		N279°	
COAXIAL LENGTH	10D-2V	40 m	10D-2V	20 m
DISTANCE	5.8 km			

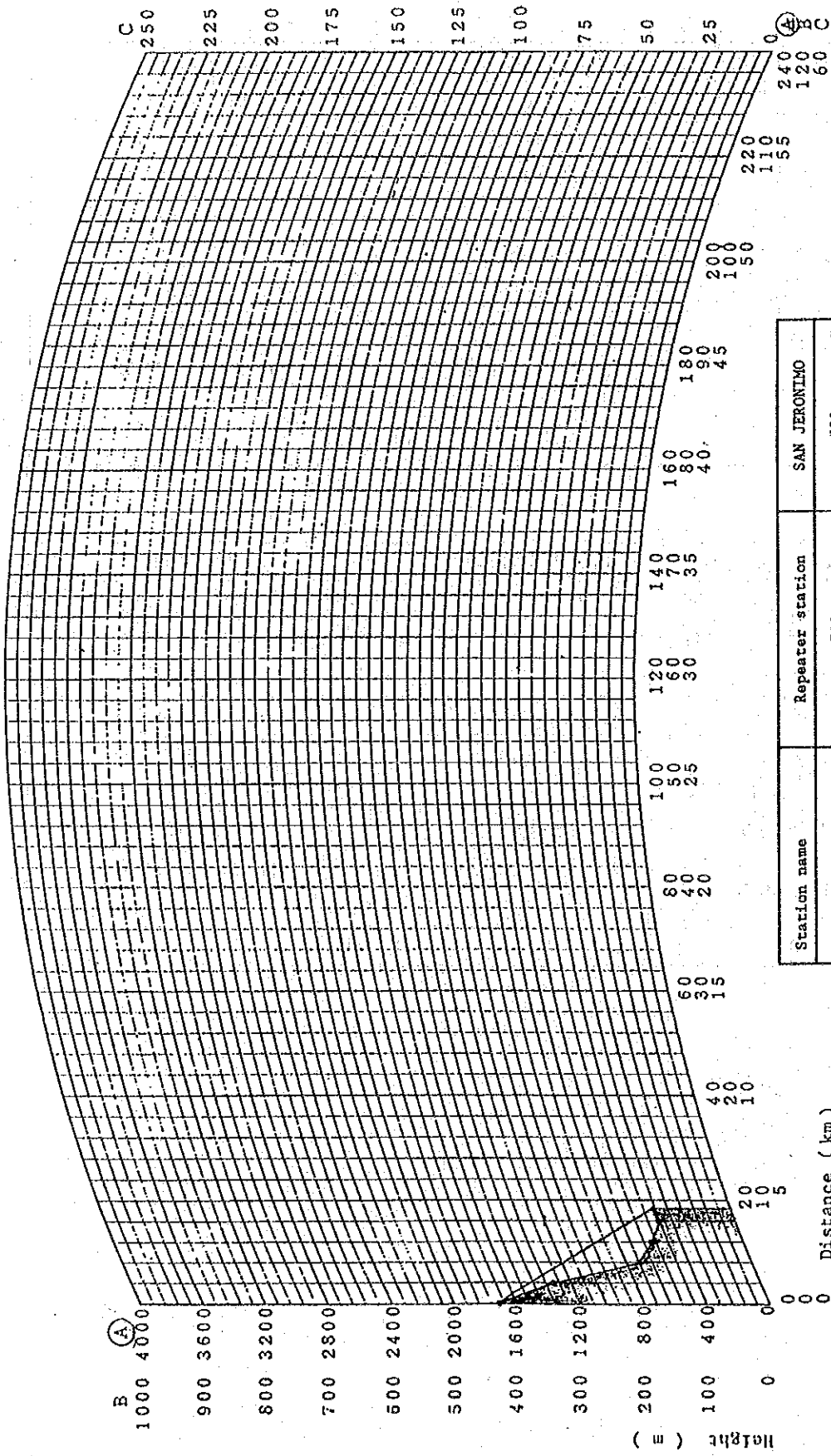
STATION NAME	LOS PICACHOS		SANTA ELENA	
LOCATION	W	87° 48' 30"	W	87° 55' 15"
	N	15° 01' 33"	N	14° 53' 34"
ANTENNA	3 STEPS DIPOLE		3EL YAGI	
ALTITUDE	1013 m		770 m	
GROUND LEVEL	983 m		740 m	
ANT HEIGHT	30 m		30 m	
ANT POINTING	N219°		N39°	
COAXIAL LENGTH	10D-2V	40 m	10D-2V	40 m
DISTANCE	19.1 km			

STATION NAME	LOS PICACHOS		SANTA RITA	
LOCATION	W	87° 48' 30"	W	87° 52' 27"
	N	15° 01' 33"	N	15° 11' 41"
ANTENNA	3EL YAGI		3EL YAGI	
ALTITUDE	1013 m		190 m	
GROUND LEVEL	983 m		180 m	
ANT HEIGHT	30 m		10 m	
ANT POINTING	N339°		N159°	
COAXIAL LENGTH	10D-2V	40 m	10D-2V	20 m
DISTANCE	20.0 km			

STATION NAME	LOS PICACHOS		EL REMOLINO	
LOCATION	W	87° 48' 30"	W	87° 48' 59"
	N	15° 01' 33"	N	15° 9' 19"
ANTENNA	3EL YAGI		3EL YAGI	
ALTITUDE	1013 m		60 m	
GROUND LEVEL	983 m		50 m	
ANT HEIGHT	30 m		10 m	
ANT POINTING	N339°		N177°	
COAXIAL LENGTH	10D-2V	40 m	10D-2V	20 m
DISTANCE	11.5 km			

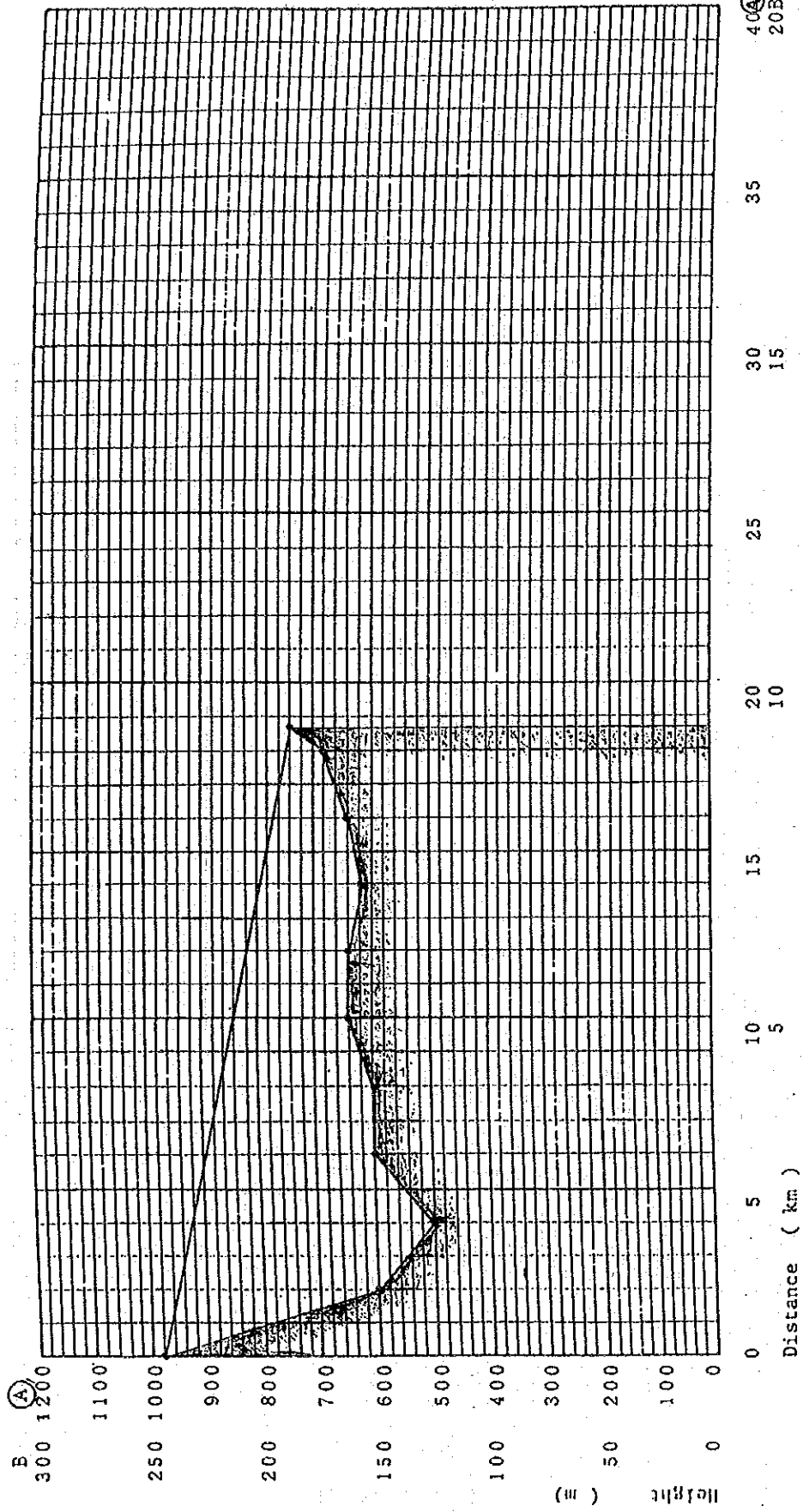
TERRAIN PROFILE

(k = 4/3)



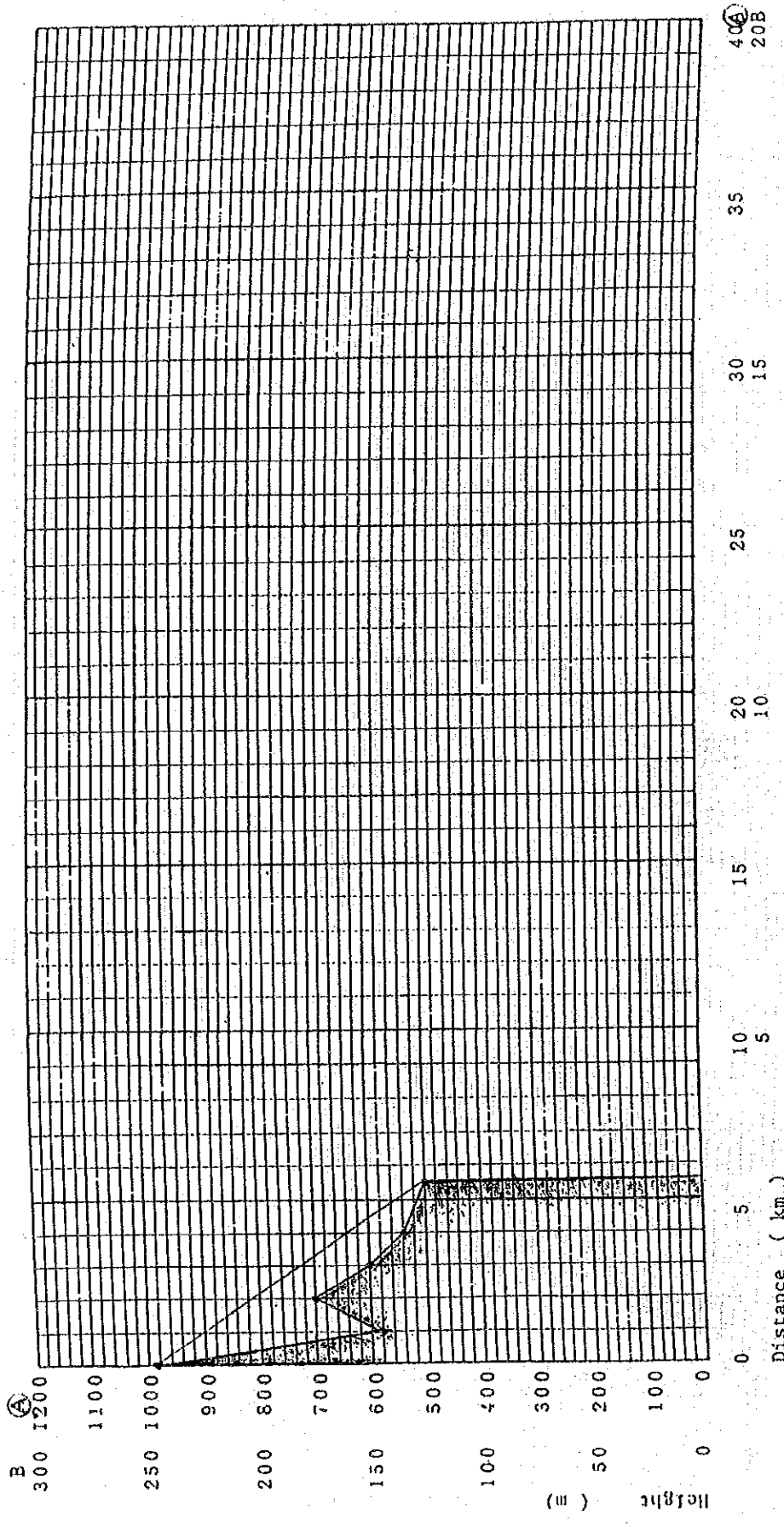
Station name	SAN JERONIMO	
Altitude	1,710 m	500 m
Antenna height	m	m
Location	W	87°36'15"
	N	14°46'10"
Distance	17.3 km	

TERRAIN PROFILE (K = 4/3) Scale: _____



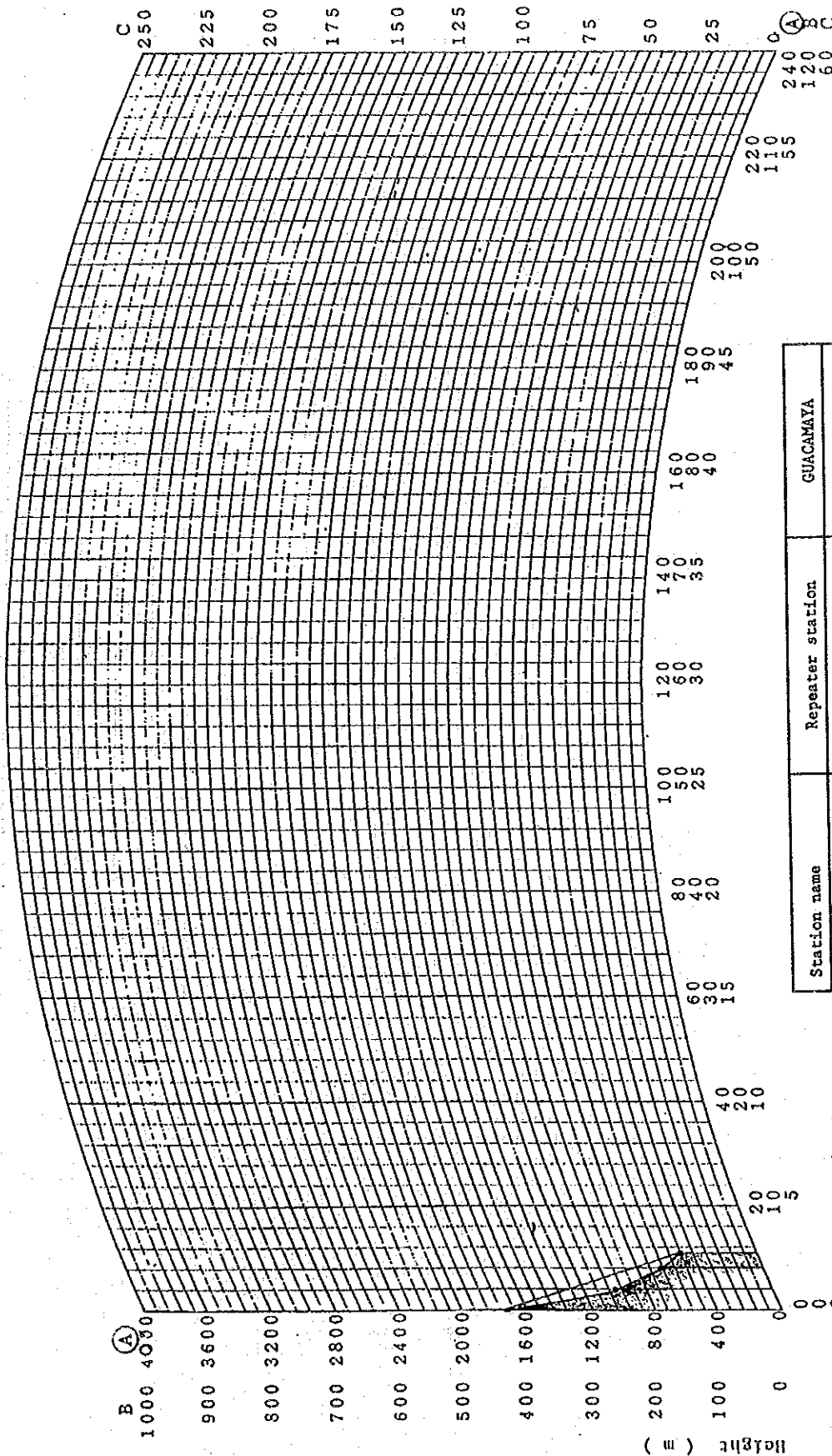
Station name	Los Picachos	SANTA ELENA
Altitude	983 m	740 m
Antenna height	m	m
Location	W	87°55'15"
	N	15°01'33"
Distance	18.8 km	

TERRAIN PROFILE (K = 4/3) Scale: _____



Station name	Los Picachos	EL CAJON
Altitude	983 m	500 m
Antenna height	m	m
Location	W	87°48'30"
	N	15°01'33"
Distance	5.6 km	

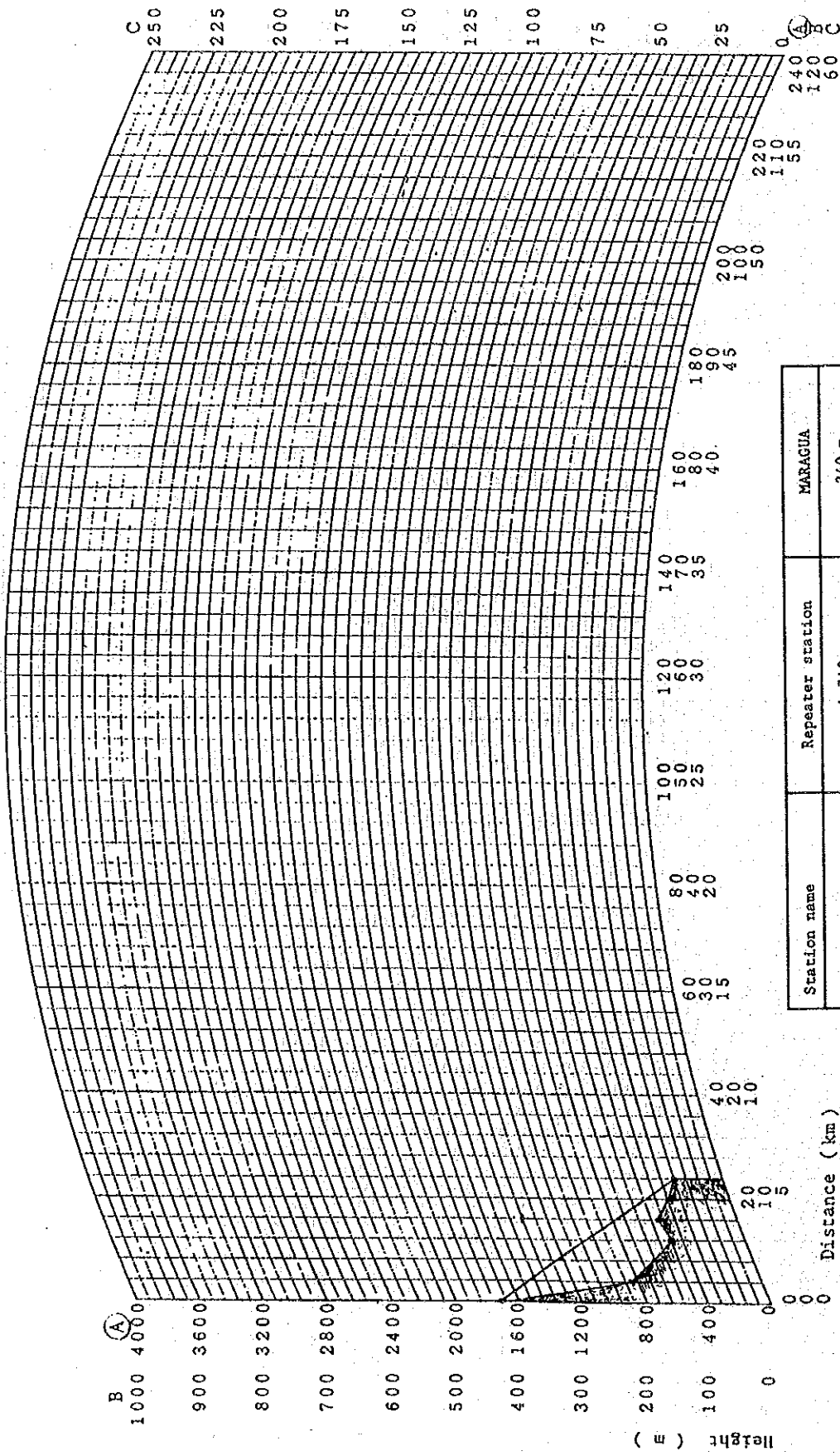
TERRAIN PROFILE (k = 4/3)



Station name	Repeater station	GUACAMAYA
Altitude	1,710 m	420 m
Antenna height	m	m
Location	W 87°31'47"	87°38'12"
	N 14°46'10"	14°44'17"
Distance	11.9 km	

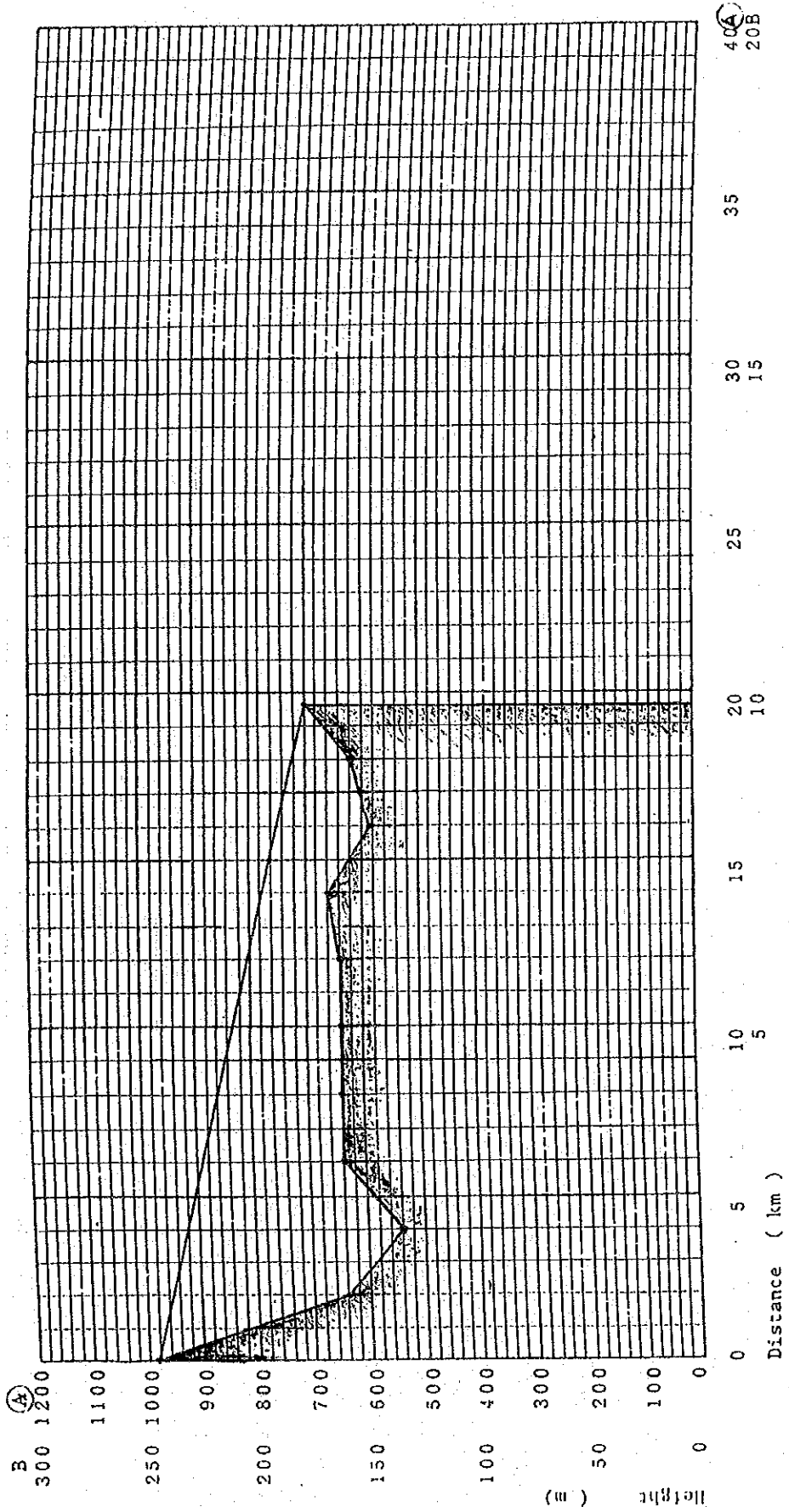
TERRAIN PROFILE

(k = 4/3)



Station name	Repeater station	MARAGUA
Altitude	1,710 m	340 m
Antenna height	m	m
Location	W	87°46'58"
	N	14°48'26"
Distance	24.0 km	

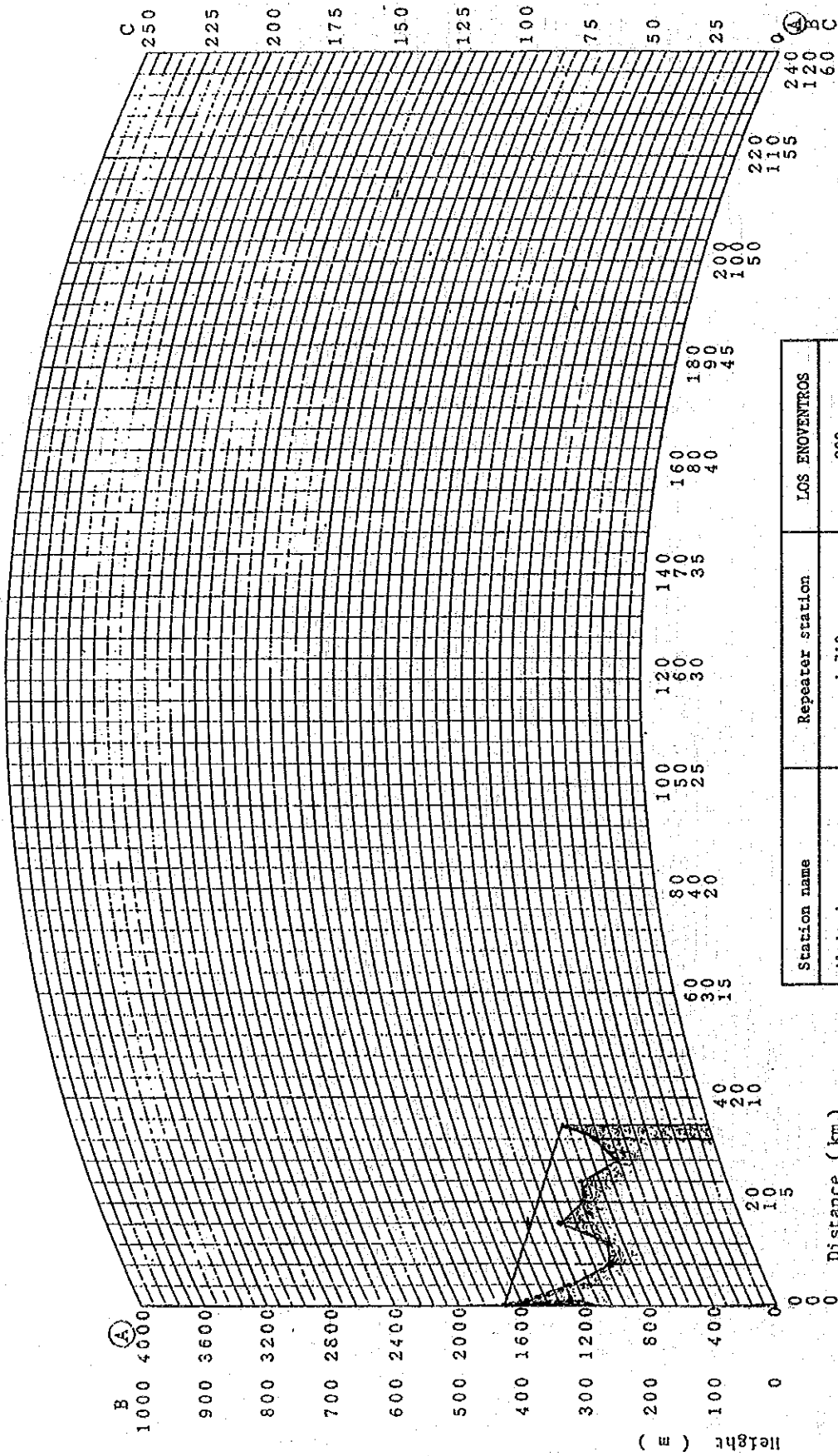
TERRAIN PROFILE (K = 4/3) Scale: _____



Station name	Los Picachos	SANTA ELENA
Altitude	983 m	700 m
Antenna height	m	m
Location	W	87°54'50"
	N	14°52'40"
Distance	19.7 km	

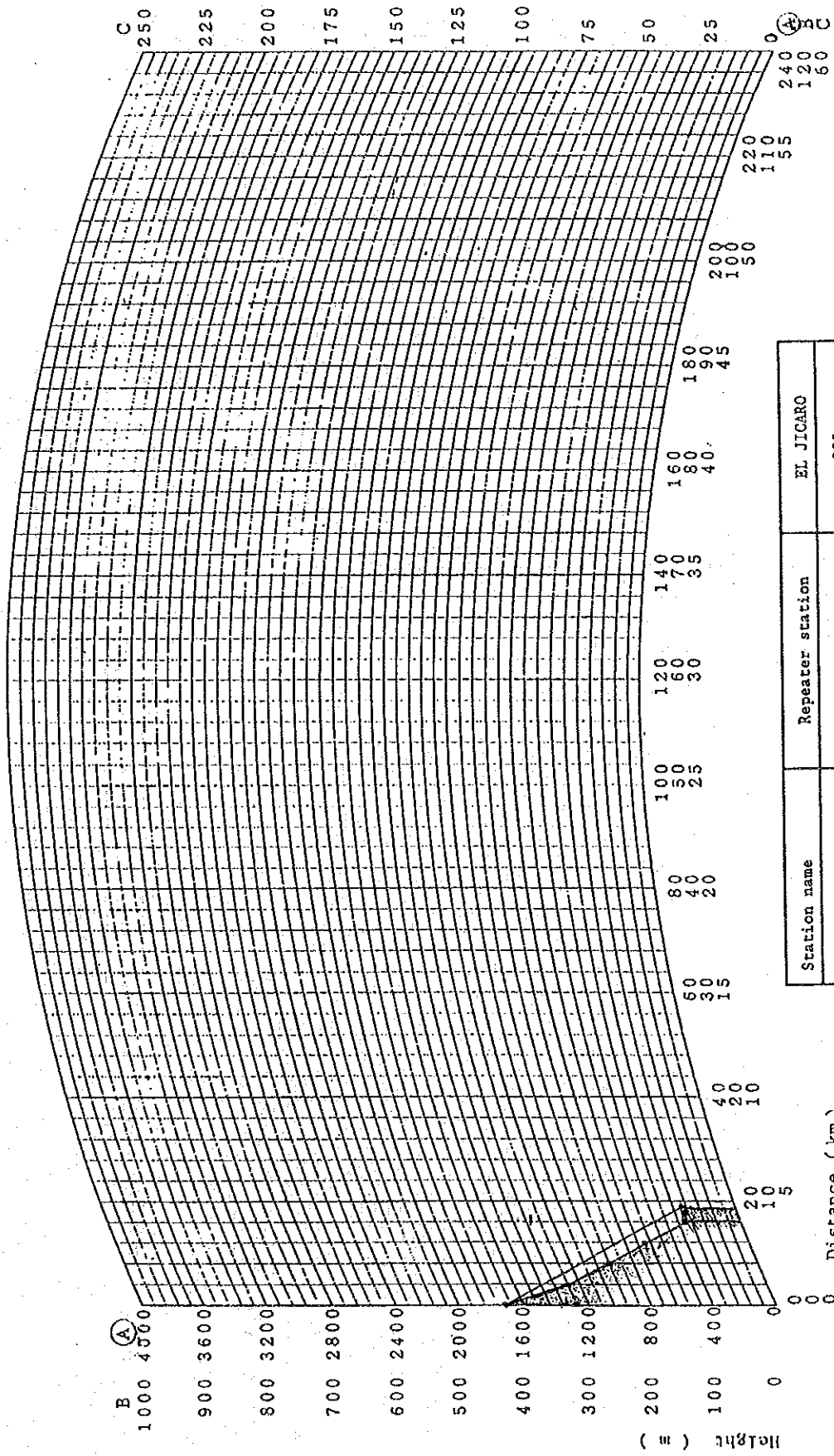
TERRAIN PROFILE

(k = 4/3)



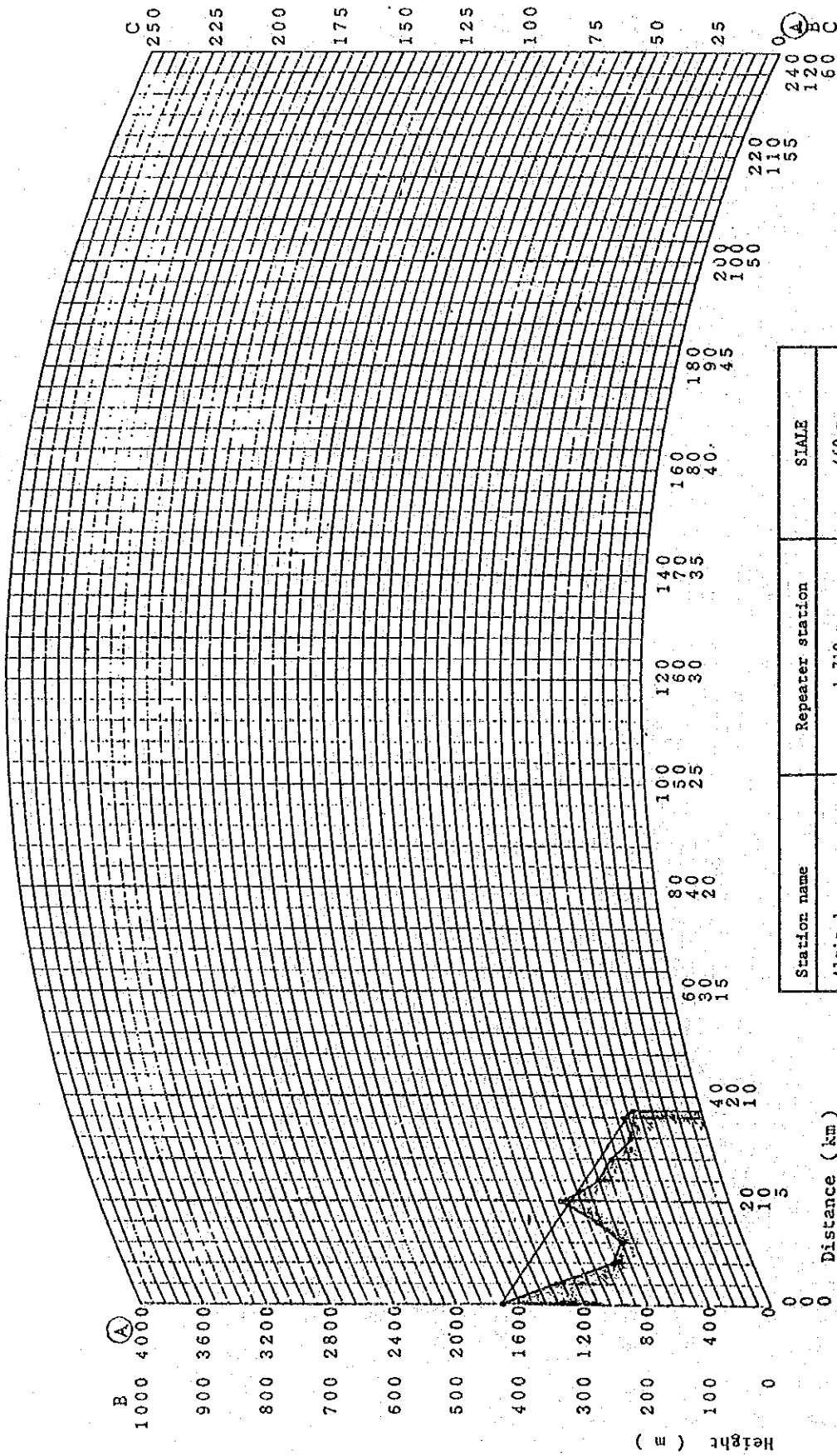
Station name	Repeater station	LOS ENOVENTIROS
Altitude	1,710 m	900 m
Antenna height	m	m
Location	W	87°12'33"
	N	14°49'00"
Distance	35.0 km	

TERRAIN PROFILE (k = 4/3)



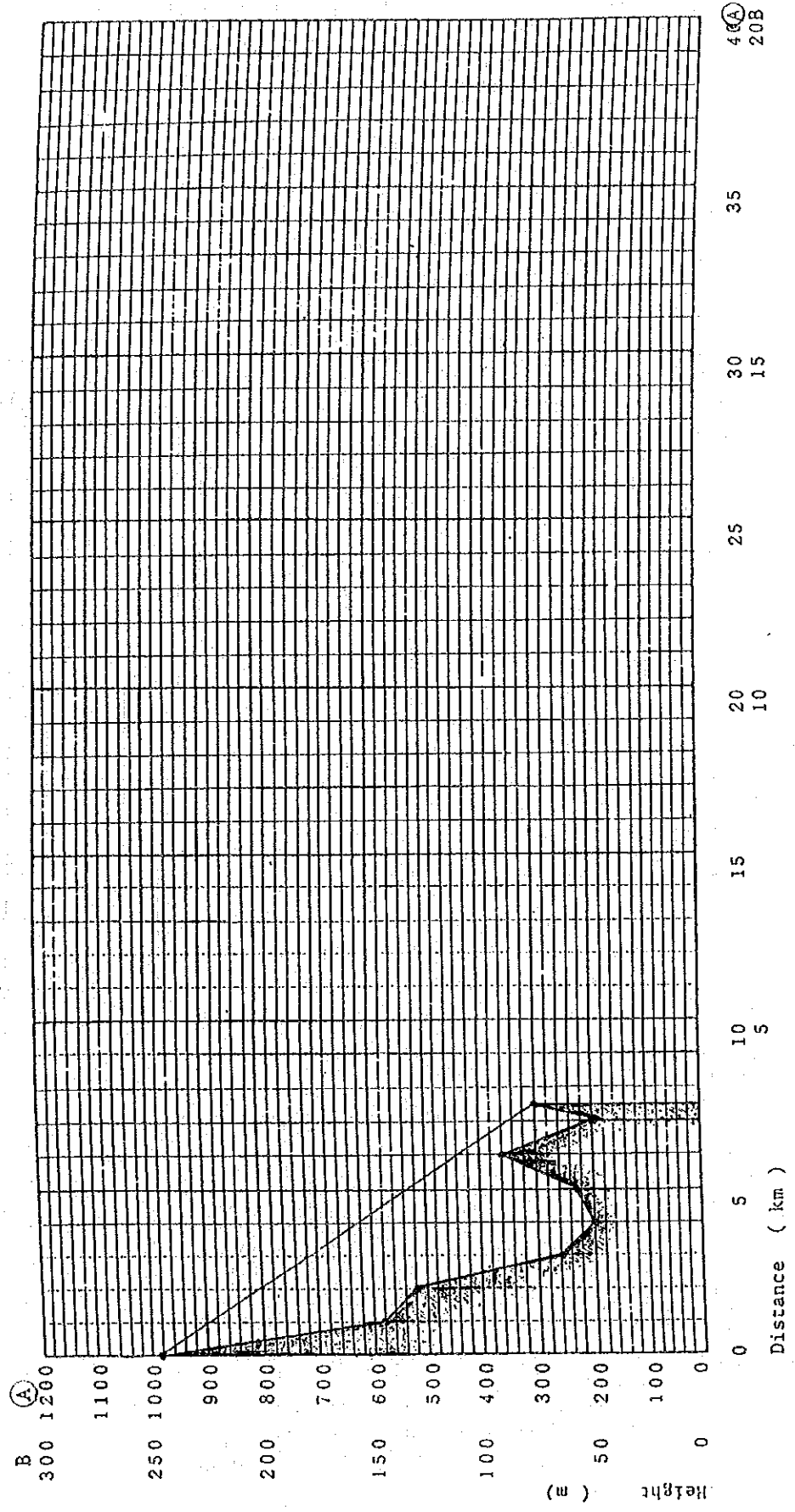
Station name	Repeater station	EL JICARO
Altitude	1,710 m	320 m
Antenna height	m	m
Location	W	87°31'47"
	N	14°46'10"
Distance	18.92 km	

TERRAIN PROFILE (k = 4/3)



Station name	Repeater station	SIATE
Altitude	1,710 m	460 m
Antenna height	m	m
Location	W	87°12'07"
	N	14°46'10"
Distance	36.75 km	

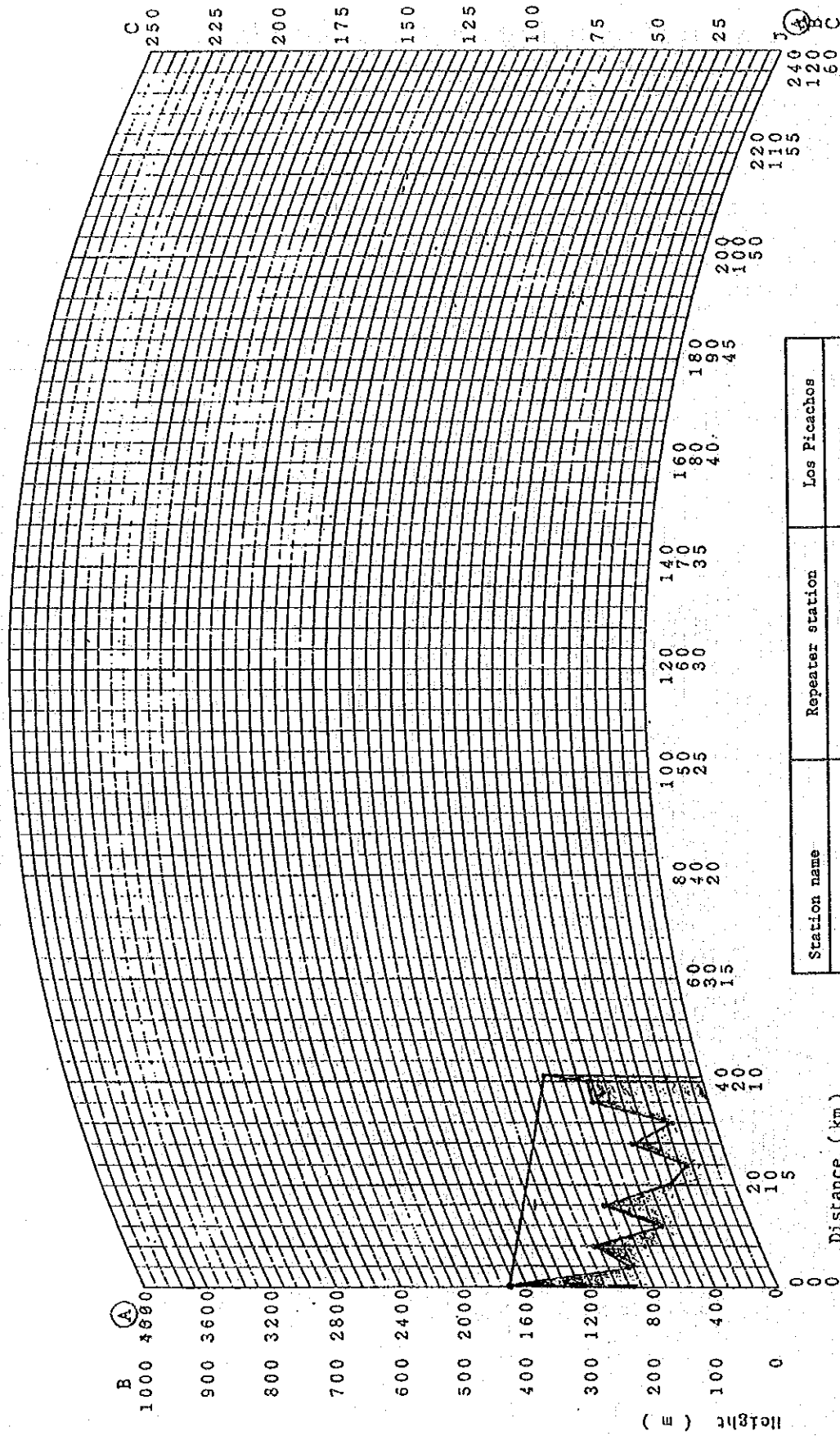
TERRAIN PROFILE (K = 4/3) Scale: _____



Station name	Los Picachos	EL CAJON
Altitude	983 m	300 m
Antenna height	m	m
Location	W	87°44'44"
	N	15°02'32"
Distance	7.5 km	

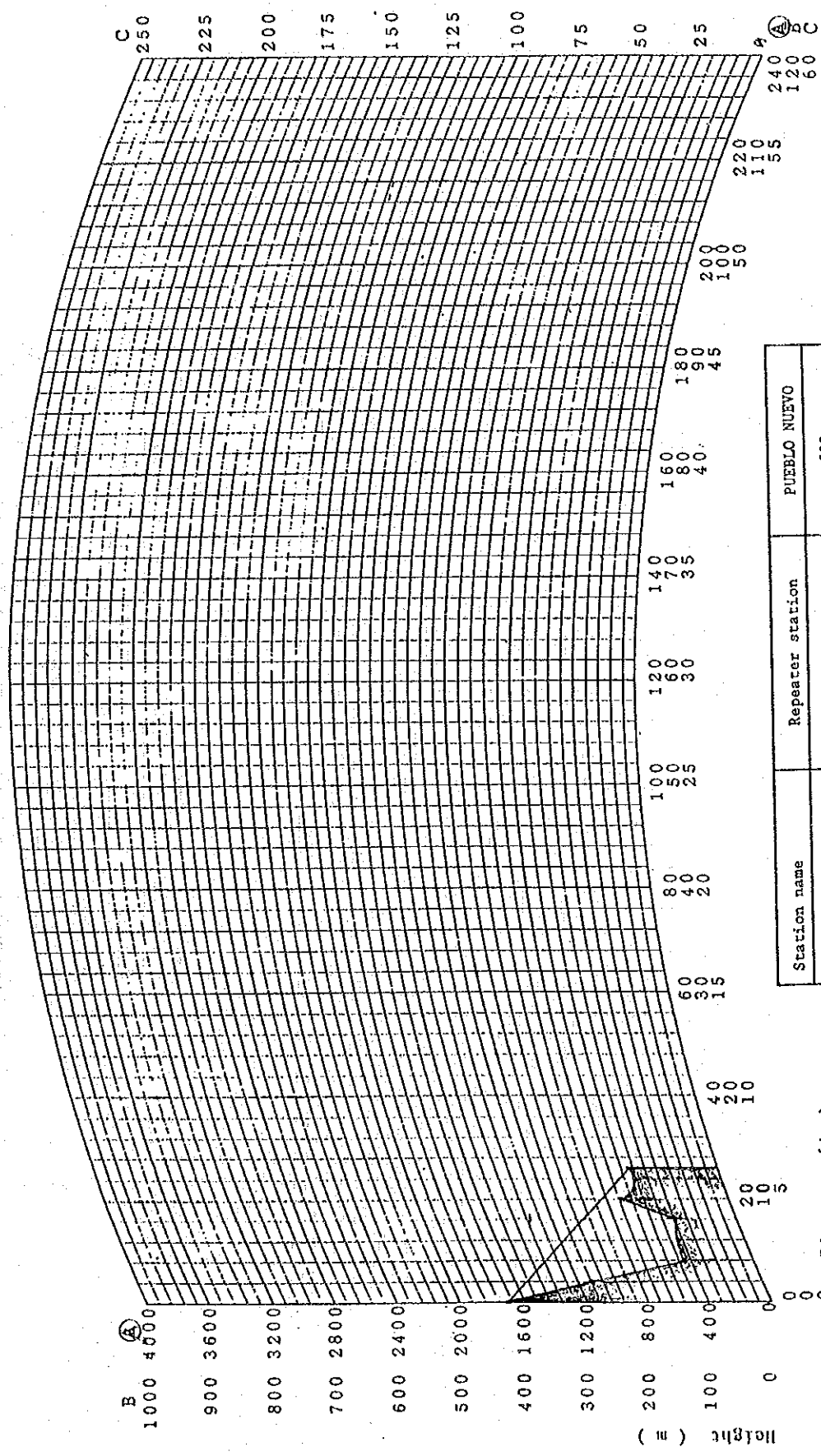
TERRAIN PROFILE

(k = 4/3)



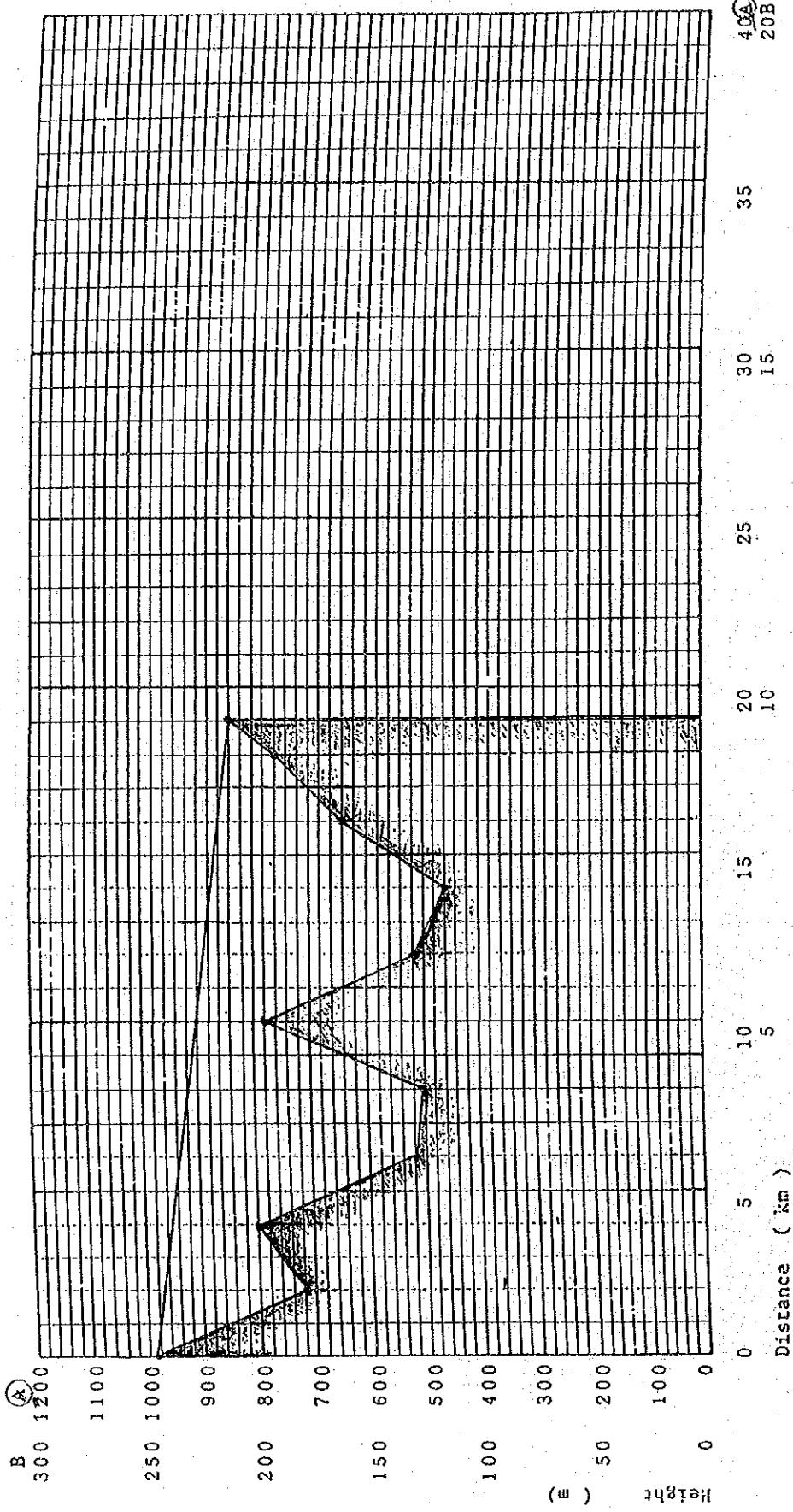
Station name	Repeater station	Los Picachos
Altitude	1,710 m	983 m
Antenna height	m	m
Location	W	87°48'30"
	N	15°01'33"
Distance	40.95 km	

TERRAIN PROFILE (k = 4/3)



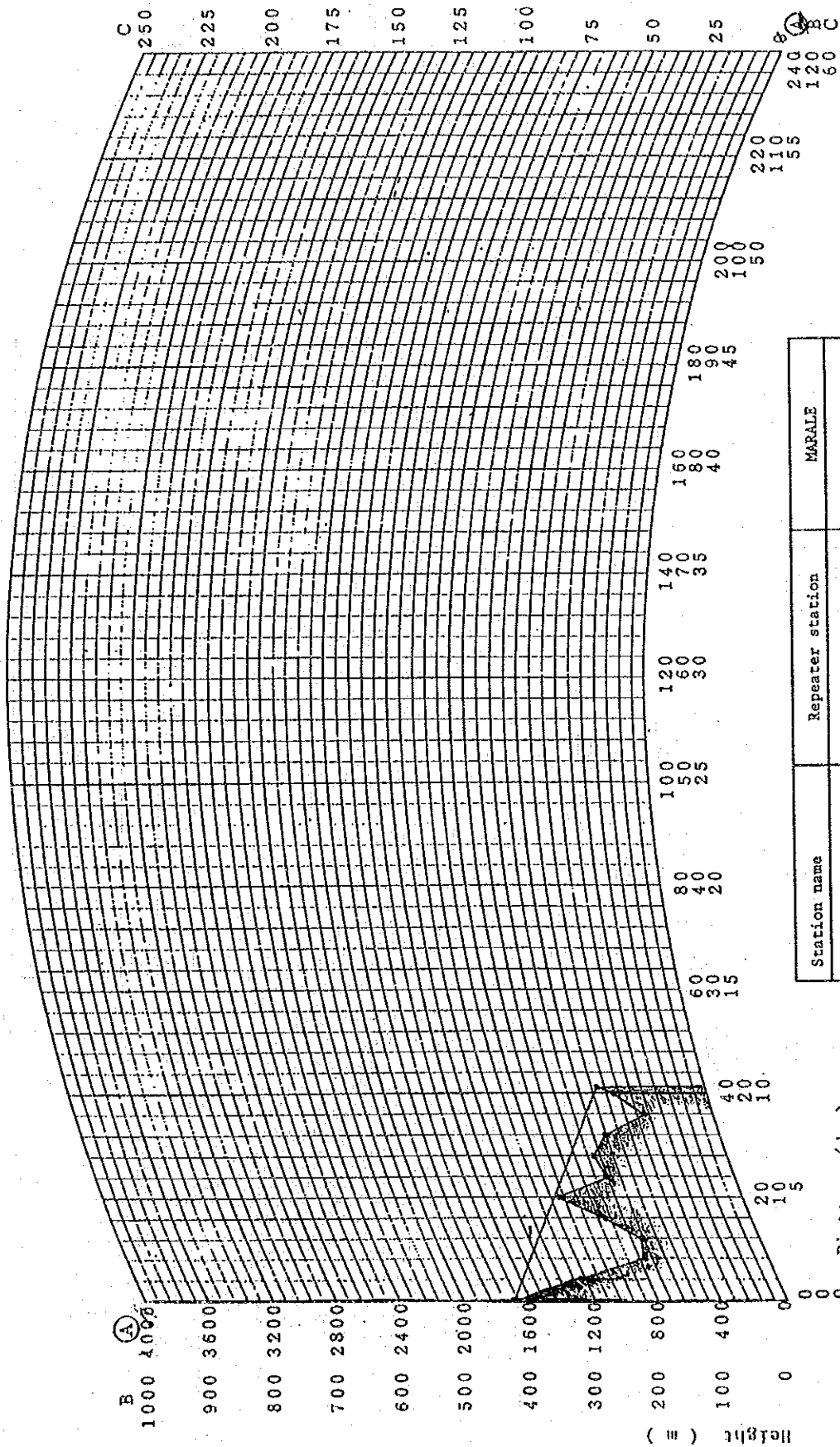
Station name	Repeater station	PUEBLO NUEVO
Altitude	1,710 m	580 m
Antenna height	m	m
Location	W	87°46'37"
	N	14°14'42"
Distance	26.53 km	

TERRAIN PROFILE (K = 4/3) Scale: _____



Station name	Los Picachos	PALMITAL
Altitude	983 m	840 m
Antenna height	m	m
Location	W	87°48'30"
	N	15°01'33"
Distance	19.03 km	

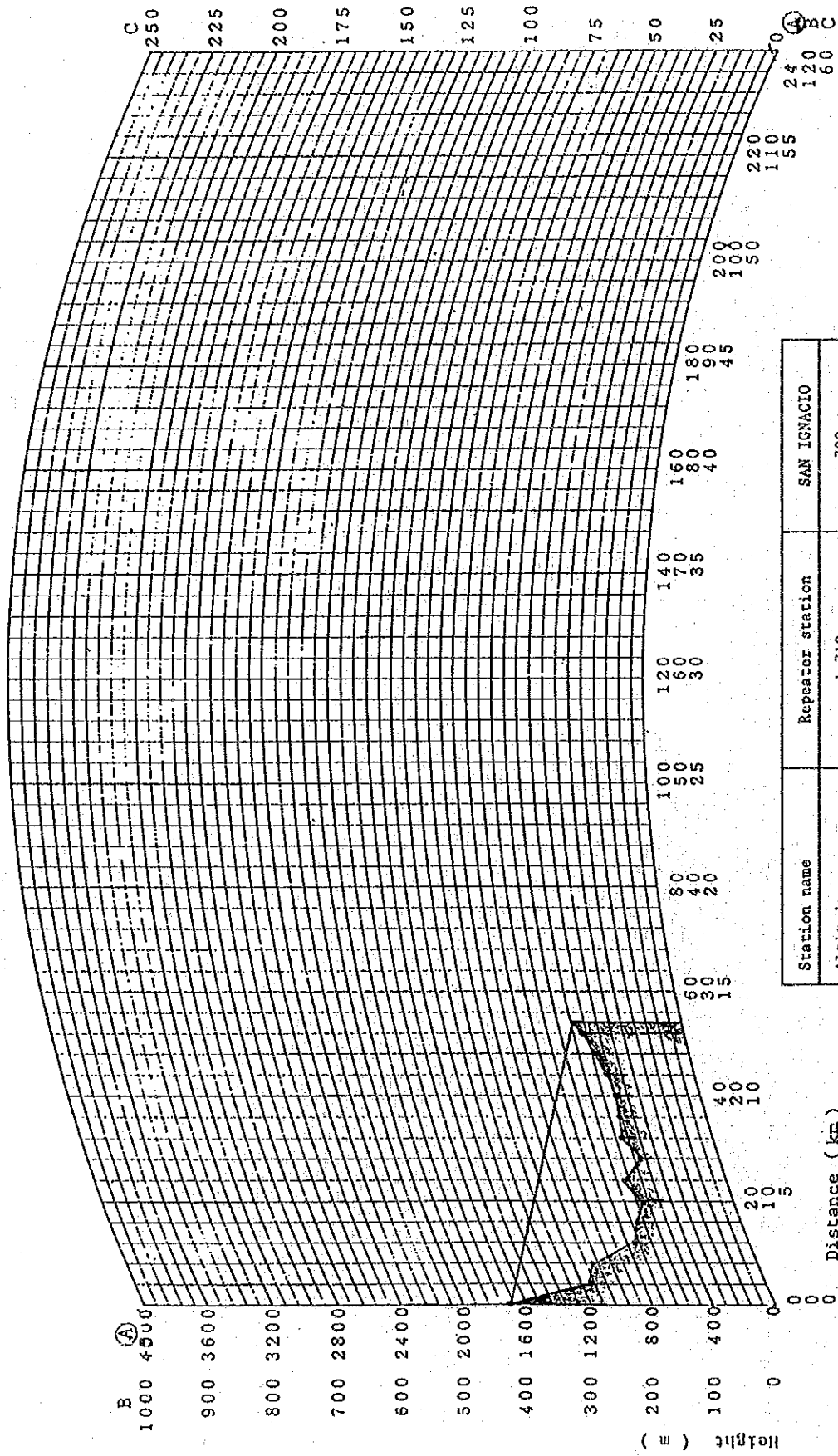
TERRAIN PROFILE (k = 4/3)



Station name	Repeater station	MARALE
Altitude	1,710 m	700 m
Antenna height	m	m
Location	W	87°10'02"
	N	14°46'10"
Distance	41.33 km	

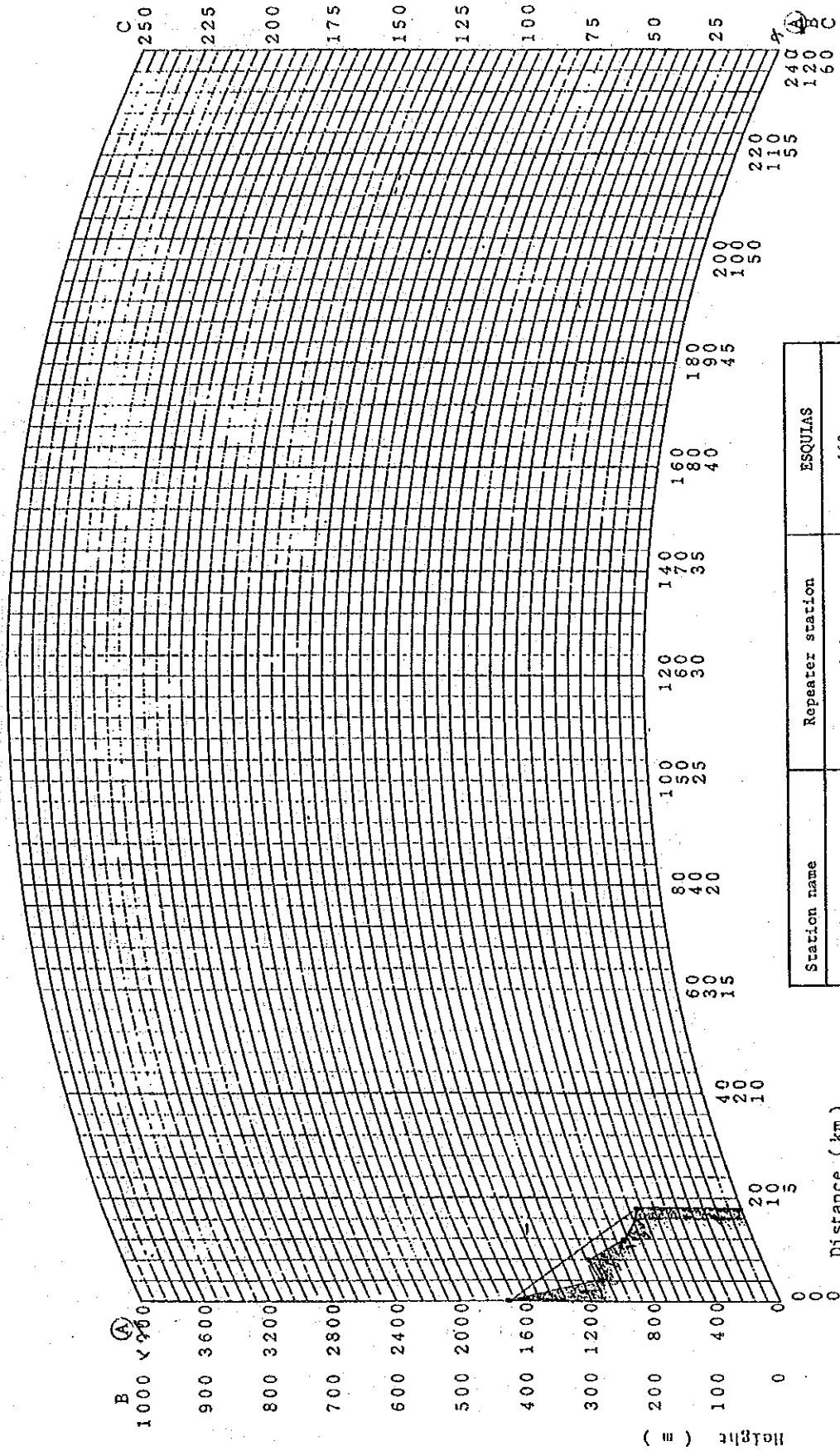
TERRAIN PROFILE

(k = 4/3)



Station name	Repeater station	SAN IGNACIO
Altitude	1,710 m	700 m
Antenna height	m	m
Location	W	87°02'26"
	N	14°39'23"
Distance	54.0 km	

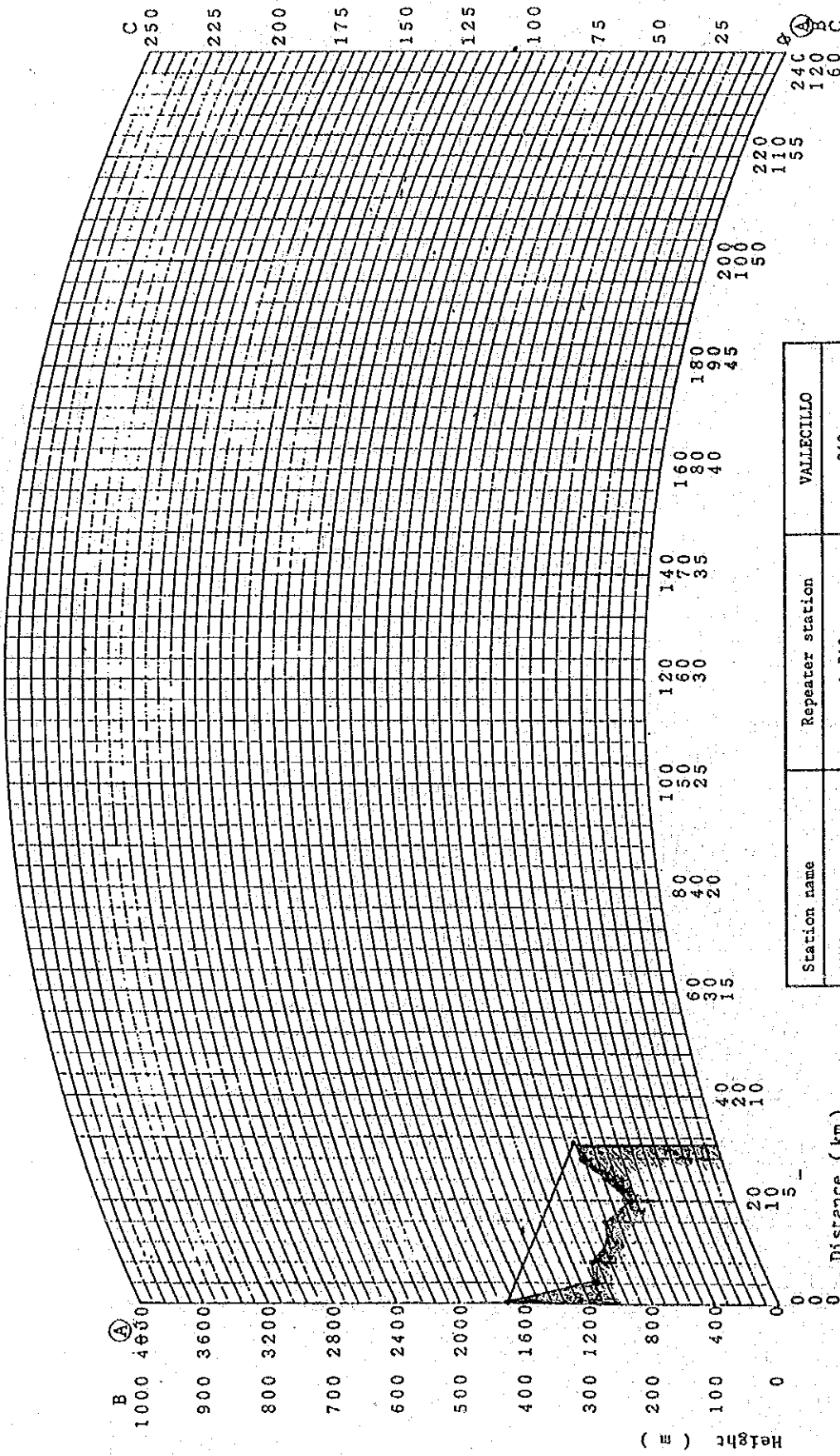
TERRAIN PROFILE (k = 4/3)



Station name	Repeater station	ESQUIAS
Altitude	1,710 m	660 m
Antenna height	m	m
Location	W	87°31'47"
	N	14°46'10"
Distance	17.3 km	

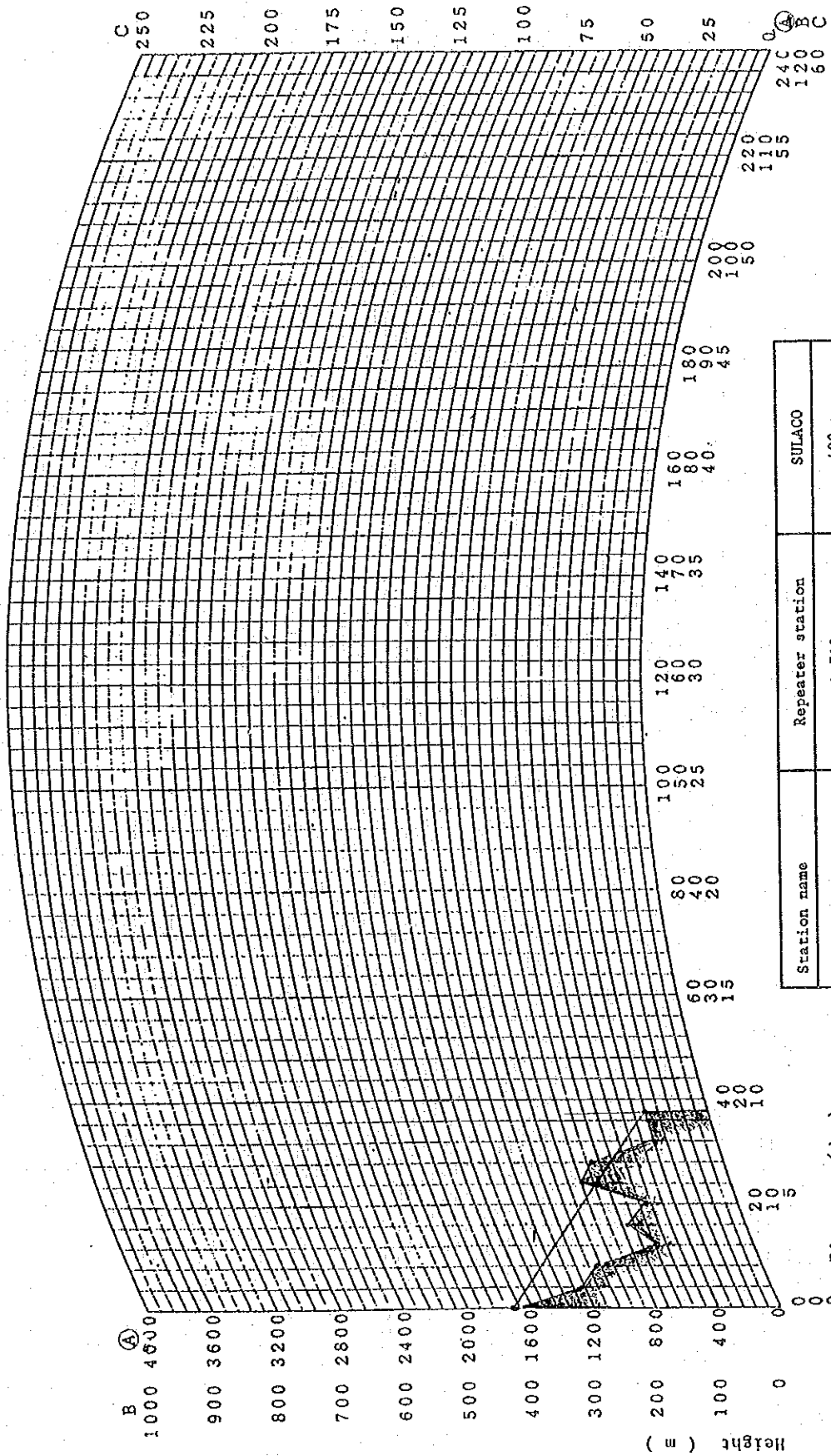
TERRAIN PROFILE

(k = 4/3)



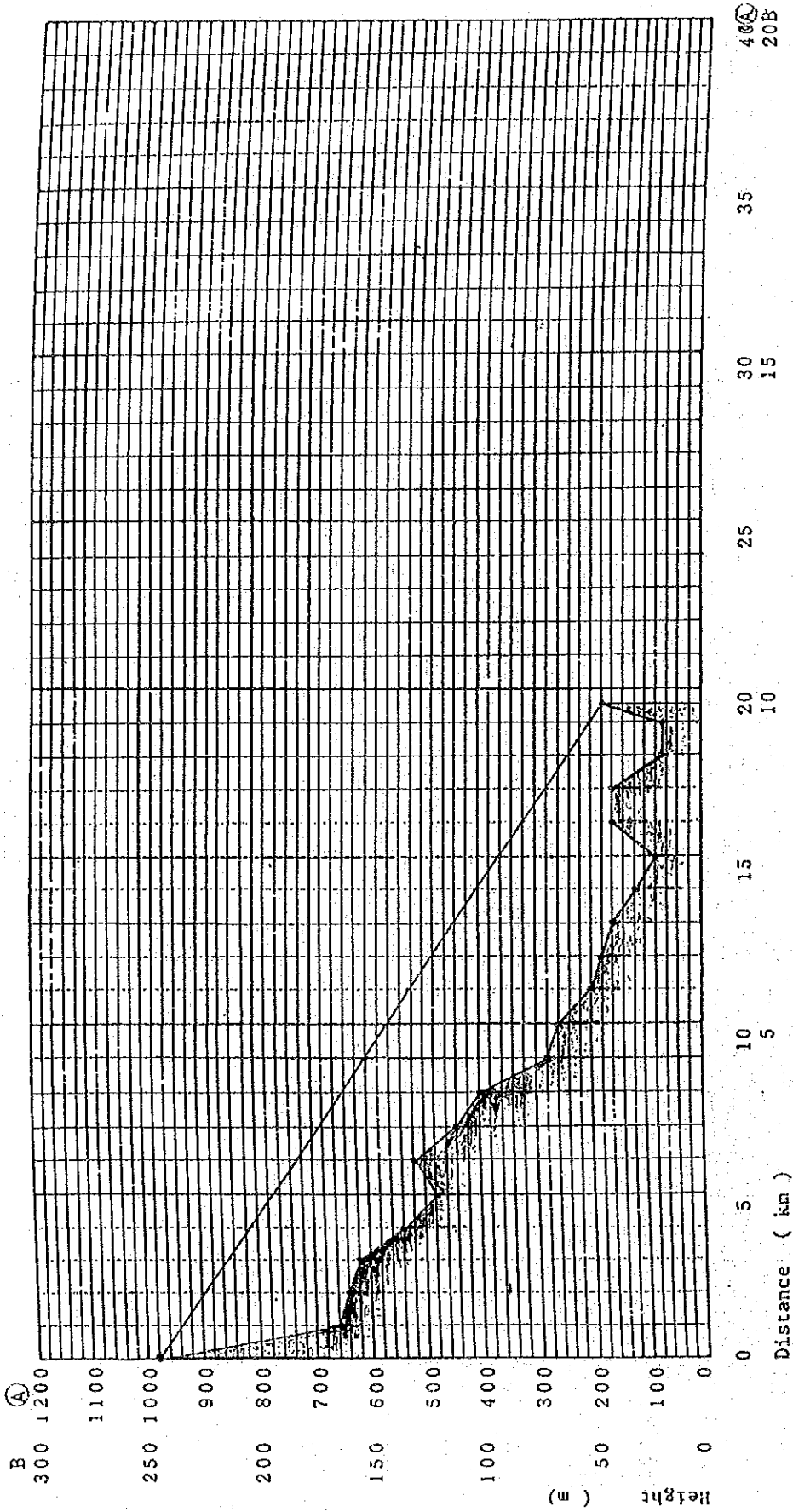
Station name	Repeater station	VALLECILLO
Altitude	1,710 m	940 m
Antenna height	m	m
Location	W	87°23'45"
	N	14°31'03"
Distance	31.5 km	

TERRAIN PROFILE (k = 4/3)



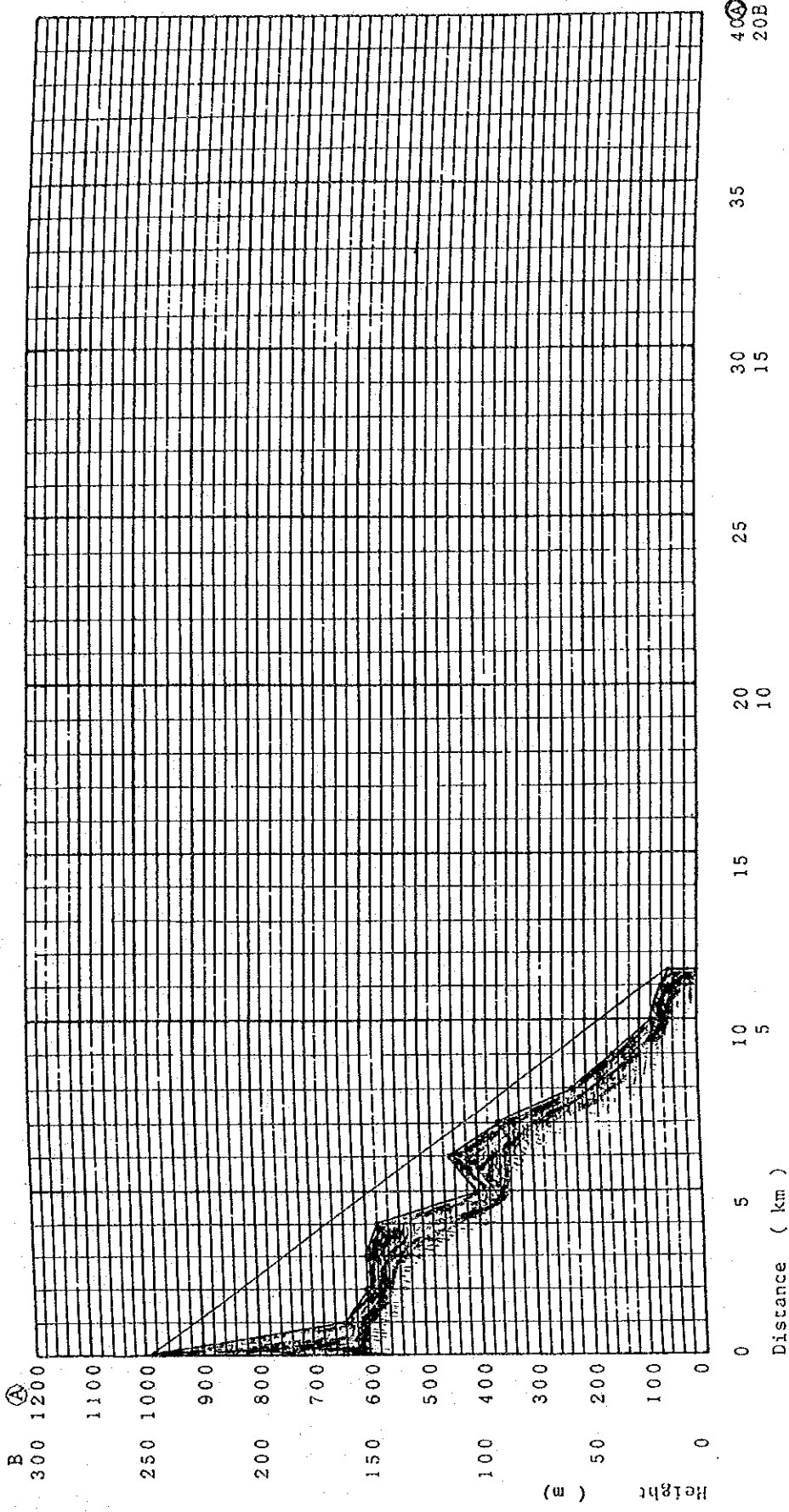
Station name	Repeater station	SULACO
Altitude	1,710 m	400 m
Antenna height	m	m
Location	W	87°31'47"
	N	14°46'10"
Distance	32.33 km	

TERRAIN PROFILE (K = 4/3) Scale: _____



Station name	Los Picachos	SANTA RITA
Altitude	983 m	180 m
Antenna height	m	m
Location	W	87°48'30"
	N	15°01'33"
Distance	19.6 km	

TERRAIN PROFILE (K = 4/3) Scale: _____



Station name	Los Picachos	EL REMOLINO
Altitude	1,013 m	60 m
Antenna height	30 m	10 m
Location	W	87°48'30"
	N	15°01'33"
Distance	11.52 km	

AP-4 STUDY ON AMPLIFICATION PROJECT

*** OPTIMAL SCHEDULE *** CASE 1 (AVAILABLE DRAWDOWN = 65 m)

NO.	YEAR	MON	DAY	H (M)	S (M3/SD)	GIN (M3/SD)	QA (M3/SD)	QOUT (M3/SD)	P (MW)	E (GWH)	T (CH)	ETG (M3/S)	QCR (M3/S)	QUP (M3/S)	LOSS (CM)	SUII (CM)	
1	1	1	31	282.1	45217.0	1288.8	(41.57)	3162.0	(102.00)	0.0	137.73	102.47	0.807	191.73	102.00	6.35	283.01
2	1	2	28	280.2	43236.8	875.8	(31.28)	2856.0	(102.00)	0.0	139.60	93.88	0.827	196.90	102.00	6.35	281.17
3	1	3	31	277.7	40724.5	649.7	(20.96)	3162.0	(102.00)	0.0	137.47	102.28	0.825	198.75	102.00	6.35	278.97
4	1	4	30	275.3	38366.2	701.8	(23.39)	3060.0	(102.00)	0.0	135.12	97.28	0.823	200.92	102.00	6.35	276.53
5	1	5	31	272.3	35467.4	263.2	(8.49)	3162.0	(102.00)	0.0	132.51	98.59	0.821	203.00	102.00	6.35	273.82
6	1	6	30	275.8	38776.0	720.8	(24.29)	3900.0	(130.00)	0.0	181.94	131.00	0.884	203.30	130.00	6.35	274.03
7	1	7	31	273.3	36403.9	1657.9	(53.48)	4030.0	(130.00)	0.0	182.59	135.85	0.885	202.82	130.00	6.35	274.53
8	1	8	31	271.5	34678.2	2304.3	(74.33)	4030.0	(130.00)	0.0	179.77	133.75	0.883	204.96	130.00	6.35	272.38
9	1	9	30	279.3	42326.9	1154.8	(38.49)	3900.0	(130.00)	0.0	183.73	132.29	0.885	201.99	130.00	6.35	275.39
10	1	10	31	282.8	45942.8	8750.9	(281.64)	5115.0	(165.00)	0.0	244.44	181.87	0.898	196.98	165.00	6.34	281.07
11	1	11	30	285.0	48259.6	7566.8	(252.23)	5250.0	(175.00)	0.0	264.25	190.26	0.900	193.45	175.00	6.33	283.91
12	1	12	31	283.9	47137.7	2040.1	(65.81)	3162.0	(102.00)	0.0	139.04	103.44	0.808	192.75	102.00	6.35	284.47
13	2	1	31	282.1	45238.3	1262.6	(40.73)	3162.0	(102.00)	0.0	137.76	102.49	0.807	191.70	102.00	6.35	283.05
14	2	2	28	280.4	43429.3	1047.0	(37.39)	2856.0	(102.00)	0.0	139.70	93.88	0.827	196.81	102.00	6.35	281.27
15	2	3	31	278.0	40947.0	679.7	(21.93)	3162.0	(102.00)	0.0	137.67	102.42	0.826	198.57	102.00	6.35	279.18
16	2	4	30	275.4	38475.4	588.4	(19.61)	3060.0	(102.00)	0.0	135.28	97.40	0.824	200.77	102.00	6.35	276.70
17	2	5	31	273.2	36336.6	1023.5	(33.01)	3162.0	(102.00)	0.0	133.01	98.96	0.821	203.00	102.00	6.35	274.34
18	2	6	30	274.7	37758.1	4451.5	(148.72)	3060.0	(102.00)	0.0	132.64	95.50	0.821	203.00	102.00	6.35	273.96
19	2	7	31	278.6	41577.1	7001.0	(225.84)	3162.0	(102.00)	0.0	135.21	100.60	0.823	200.83	102.00	6.35	276.63
20	2	8	31	280.0	43030.2	5483.1	(176.87)	4030.0	(130.00)	0.0	188.90	140.54	0.889	198.47	130.00	6.35	279.29
21	2	9	30	283.4	46571.0	7440.8	(248.03)	3900.0	(130.00)	0.0	192.12	138.32	0.891	196.45	130.00	6.35	281.71
22	2	10	31	284.8	48083.2	5542.2	(178.78)	4030.0	(130.00)	0.0	189.73	141.16	0.868	193.11	130.00	6.35	284.12
23	2	11	30	284.9	48139.8	3116.6	(103.89)	3060.0	(102.00)	0.0	139.38	100.33	0.808	192.15	102.00	6.35	284.86
24	2	12	31	283.7	46838.9	1851.1	(60.04)	3162.0	(102.00)	0.0	138.86	103.31	0.808	192.88	102.00	6.35	284.28
25	3	1	31	281.2	44222.2	1103.3	(35.59)	3720.0	(120.00)	0.0	174.47	129.80	0.873	195.89	120.00	6.35	282.42
26	3	2	28	279.2	42246.3	880.1	(31.43)	2856.0	(102.00)	0.0	158.66	93.18	0.826	197.70	102.00	6.35	280.21
27	3	3	31	276.9	39853.2	769.0	(24.81)	3162.0	(102.00)	0.0	136.58	101.61	0.825	199.56	102.00	6.35	278.05
28	3	4	30	274.6	37642.4	869.2	(28.31)	3060.0	(102.00)	0.0	134.34	96.72	0.823	201.68	102.00	6.35	275.72
29	3	5	31	273.3	36384.1	1903.7	(61.41)	3162.0	(102.00)	0.0	132.62	98.67	0.821	203.40	102.00	6.35	273.93
30	3	6	30	277.4	40440.2	7956.1	(265.20)	3900.0	(130.00)	0.0	183.69	132.26	0.885	202.02	130.00	6.35	275.36
31	3	7	31	276.3	39279.6	2869.4	(92.56)	4030.0	(130.00)	0.0	185.67	138.14	0.887	200.63	130.00	6.35	276.86
32	3	8	31	278.5	41526.8	6277.2	(202.49)	4030.0	(130.00)	0.0	186.39	138.67	0.887	200.13	130.00	6.35	277.40
33	3	9	30	283.6	46750.0	9123.2	(304.11)	3900.0	(130.00)	0.0	191.24	137.69	0.891	196.99	130.00	6.35	281.06
34	3	10	31	284.6	47862.4	6537.4	(210.88)	5425.0	(175.00)	0.0	264.59	196.86	0.901	193.14	175.00	6.33	284.10
35	3	11	30	284.8	48051.3	3248.9	(108.30)	3060.0	(102.00)	0.0	139.25	100.26	0.808	192.37	102.00	6.35	284.71
36	3	12	31	283.5	46642.3	1753.0	(56.55)	3162.0	(102.00)	0.0	138.74	103.22	0.808	193.08	102.00	6.35	284.14
37	4	1	31	280.7	43770.3	1158.0	(37.35)	4030.0	(130.00)	0.0	167.19	122.26	0.853	6024.	3622.	6.35	279.50
38	4	2	28	277.8	40838.8	708.5	(25.30)	3640.0	(130.00)	0.0	192.64	143.33	0.892	196.17	130.00	6.35	282.11
39	4	3	31	274.3	37372.6	563.8	(18.19)	4030.0	(130.00)	0.0	188.89	126.93	0.889	198.47	130.00	6.35	279.29
40	4	4	30	270.9	34134.2	661.6	(22.05)	3900.0	(130.00)	0.0	184.64	137.37	0.886	201.35	130.00	6.35	276.08
41	4	5	31	268.7	32144.9	1172.7	(37.83)	3162.0	(102.00)	0.0	180.05	129.63	0.883	204.74	130.00	6.35	272.59
42	4	6	30	274.9	37987.1	974.2	(32.74)	3900.0	(130.00)	0.0	178.66	95.72	0.818	207.70	102.00	6.35	269.79
43	4	7	31	277.7	40690.1	6733.0	(217.19)	4030.0	(130.00)	0.0	179.04	128.91	0.882	205.53	130.00	6.35	271.82
44	4	8	31	280.7	43710.2	7030.1	(227.42)	4030.0	(130.00)	0.0	184.96	137.61	0.886	201.12	130.00	6.35	276.32
45	4	9	30	281.7	44726.3	6266.1	(208.87)	5250.0	(175.00)	0.0	188.75	140.43	0.895	196.96	130.00	6.35	279.18
46	4	10	31	284.8	48098.1	8796.9	(283.77)	5425.0	(175.00)	0.0	263.12	195.76	0.900	191.50	175.00	6.33	283.25
47	4	11	30	285.0	48220.6	3742.5	(124.08)	3060.0	(102.00)	0.0	168.32	121.19	0.830	193.28	102.00	6.35	284.90
48	4	12	31	283.2	46303.0	1244.4	(40.14)	3162.0	(102.00)	0.0	138.67	103.17	0.808	193.01	102.00	6.35	284.06
						3995.0	(130.58)	4013.2	(132.00)	0.0	188.26	137.35	0.872	6051.	4013.	6.34	278.58

*** OPTIMAL SCHEDULE *** CASE 1 (AVAILABLE DRAWDOWN = 65 m)

NO.	YEAR	MON	DAY	H	S	GIN	QG	GOUT	P	E	T	ETG	ACR	GUP	LOSS	SUII
				(CM)	(M3/SD)	(M3/SD)	(M3/SD)	(M3/SD)	(MW)	(GMW)	(H)	(M/S/S)	(M/S/S)	(M3/S)	(M)	(M)
97	9	1	31	249.9	17043.9	1411.6	45.54	3162.0	116.17	86.43	24.0	0.838	204.97	102.00	6.35	251.11
98	9	2	28	247.2	15187.7	999.8	35.71	2856.0	113.92	76.56	24.0	0.837	203.07	102.00	6.35	248.54
99	9	3	31	243.6	12852.5	826.9	26.67	3162.0	111.20	82.74	24.0	0.836	200.72	102.00	6.35	245.41
100	9	4	30	239.9	10507.0	714.5	23.82	3060.0	108.68	78.25	24.0	0.840	197.96	102.00	6.35	241.77
101	9	5	31	236.4	8414.2	1069.2	34.49	3162.0	105.91	78.80	24.0	0.842	195.17	102.00	6.35	238.16
102	9	6	30	237.2	8871.1	3516.9	117.23	3060.0	104.86	75.50	24.0	0.843	194.11	102.00	6.35	236.79
103	9	7	31	235.3	7759.5	2050.4	66.14	3162.0	104.42	77.69	24.0	0.843	193.67	102.00	6.35	236.23
104	9	8	31	236.9	8679.6	4082.1	131.68	3162.0	104.30	77.60	24.0	0.843	193.54	102.00	6.35	236.06
105	9	9	30	241.5	11498.4	5878.8	119.96	3060.0	106.70	76.82	24.0	0.842	195.97	102.00	6.35	239.18
106	9	10	31	248.1	15808.9	7472.5	124.05	3162.0	110.68	82.34	24.0	0.836	200.26	102.00	6.35	244.80
107	9	11	30	250.4	17418.5	4669.6	155.65	3060.0	114.55	82.48	24.0	0.837	203.60	102.00	6.35	249.26
108	9	12	31	247.8	15611.2	1354.7	43.70	3162.0	114.43	85.13	24.0	0.837	203.50	102.00	6.35	249.11
109	10	1	31	244.6	13452.2	1003.0	32.35	3162.0	111.88	83.24	24.0	0.836	201.31	102.00	6.35	246.19
110	10	2	28	241.2	11296.7	700.5	25.02	2856.0	109.00	73.25	24.0	0.835	198.80	102.00	6.35	242.87
111	10	3	31	237.0	8791.2	656.5	21.18	3162.0	106.65	79.34	24.0	0.842	195.92	102.00	6.35	239.12
112	10	4	30	232.6	6258.9	527.7	17.59	3060.0	103.34	74.41	24.0	0.844	192.57	102.00	6.35	234.82
113	10	5	31	230.3	5035.4	1938.5	62.53	3162.0	100.74	74.95	24.0	0.846	189.91	102.00	6.35	231.47
114	10	6	30	238.0	9364.7	7389.3	124.63	3060.0	102.84	74.05	24.0	0.845	192.06	102.00	6.35	234.18
115	10	7	31	235.8	8077.4	1874.7	60.47	3162.0	104.96	78.09	24.0	0.843	194.21	102.00	6.35	236.92
116	10	8	31	239.0	9945.4	5030.0	162.26	3162.0	105.33	78.37	24.0	0.843	194.59	102.00	6.35	237.40
117	10	9	30	245.6	14110.5	7225.1	142.40	3060.0	109.07	78.53	24.0	0.840	198.34	102.00	6.35	242.28
118	10	10	31	250.8	17664.5	6716.0	132.65	3162.0	113.60	84.52	24.0	0.837	202.79	102.00	6.35	248.17
119	10	11	30	253.4	19585.6	4979.1	165.97	3060.0	117.02	84.25	24.0	0.838	205.69	102.00	6.35	252.08
120	10	12	31	251.3	18084.5	1662.9	53.64	3162.0	117.27	87.25	24.0	0.838	205.91	102.00	6.35	252.38
						3308.6	1108.73	3102.5	108.47	79.19		0.841	601.2	3103.		241.49
121	11	1	31	248.5	16061.4	1138.9	36.74	3162.0	115.12	85.65	24.0	0.837	204.99	102.00	6.35	249.91
122	11	2	28	245.4	13975.5	770.1	27.50	2856.0	112.51	75.61	24.0	0.837	201.85	102.00	6.35	246.92
123	11	3	31	241.5	11468.4	654.9	21.13	3162.0	109.46	81.44	24.0	0.836	199.21	102.00	6.35	243.41
124	11	4	30	237.5	9050.6	642.2	21.41	3060.0	106.92	76.98	24.0	0.842	196.19	102.00	6.35	239.47
125	11	5	31	233.5	6740.8	852.2	27.49	3162.0	103.85	77.26	24.0	0.844	193.08	102.00	6.35	235.48
126	11	6	30	238.2	9458.3	5777.5	119.58	3060.0	104.11	74.96	24.0	0.844	193.55	102.00	6.35	235.82
127	11	7	31	242.2	11945.9	5649.6	182.25	3162.0	107.47	79.96	24.0	0.841	196.75	102.00	6.35	240.19
128	11	8	31	245.9	14318.4	5534.6	178.54	3162.0	110.02	81.85	24.0	0.836	199.69	102.00	6.35	244.05
129	11	9	30	255.2	20958.6	9700.2	232.34	3060.0	115.69	83.30	24.0	0.837	204.57	102.00	6.35	250.56
130	11	10	31	263.0	27132.0	9335.4	230.14	3162.0	123.15	91.62	24.0	0.840	210.79	102.00	6.35	259.10
131	11	11	30	264.7	28612.5	4540.5	151.35	3060.0	127.30	91.65	24.0	0.841	214.16	102.00	6.35	263.82
132	11	12	31	263.0	27191.8	1741.3	56.17	3162.0	127.33	94.73	24.0	0.841	214.18	102.00	6.35	263.86
						3861.4	126.64	3102.5	113.58	82.92		0.840	615.4	3103.		247.72
133	12	1	31	260.6	25148.5	1118.7	36.09	3162.0	125.51	93.38	24.0	0.840	212.72	102.00	6.35	261.79
134	12	2	28	258.0	23096.8	804.3	28.72	2856.0	123.31	82.87	24.0	0.840	210.92	102.00	6.35	259.28
135	12	3	31	254.8	20656.4	721.6	23.28	3162.0	120.81	89.88	24.0	0.839	208.86	102.00	6.35	256.42
136	12	4	30	251.7	18305.0	708.6	23.62	3060.0	118.03	84.98	24.0	0.838	206.55	102.00	6.35	253.23
137	12	5	31	249.2	16597.4	1434.4	46.92	3162.0	115.59	86.00	24.0	0.837	204.49	102.00	6.35	250.45
138	12	6	30	252.6	19027.3	5489.9	183.00	3060.0	116.03	83.34	24.0	0.838	204.86	102.00	6.35	250.95
139	12	7	31	257.1	22413.8	6548.5	211.24	3162.0	119.47	88.59	24.0	0.839	207.75	102.00	6.35	254.89
140	12	8	31	263.6	27667.0	8415.2	271.46	3162.0	124.26	92.45	24.0	0.840	211.70	102.00	6.35	260.36
141	12	9	30	269.2	32606.6	7999.6	266.65	3060.0	129.56	93.28	24.0	0.841	214.40	102.00	6.35	266.40
142	12	10	31	274.8	37816.9	8372.3	320.07	3162.0	130.76	97.99	24.0	0.819	205.36	102.00	6.35	271.99
143	12	11	30	275.2	38212.6	5455.7	115.19	3060.0	135.62	96.30	24.0	0.822	203.39	102.00	6.35	274.97
144	12	12	31	273.3	36441.7	1391.1	44.87	3162.0	132.93	98.90	24.0	0.821	203.08	102.00	6.35	274.26
						3873.3	116.76	3102.5	124.16	90.64		0.835	631.9	3103.		261.25

*** OPTIMAL SCHEDULE *** CASE 1 (AVAILABLE DRAWDOWN = 65 M)

NO.	YEAR	MON	DAY	H (M)	S (M3/SD)	GIN (M3/SD)	GQ (M3/SD)	GOUT (M3/SD)	P (MW)	E (GMH)	T (H)	ETG (M3/S)	GQR (M3/S)	GUP (M3/S)	LOSS (M)	SUII (CM)
193	17	1	31	263.3	27401.1	990.6	31.95	0.0	127.92	95.17	24.0	0.841	214.40	102.00	6.35	264.54
194	17	2	28	260.6	25211.2	666.1	23.79	0.0	125.66	84.44	24.0	0.840	212.83	102.00	6.35	261.95
195	17	3	31	257.4	22591.6	542.4	17.50	0.0	123.06	91.56	24.0	0.840	210.72	102.00	6.35	259.00
196	17	4	30	253.9	19966.5	435.0	14.50	0.0	120.12	86.49	24.0	0.839	208.59	102.00	6.35	255.64
197	17	5	31	250.7	17647.0	842.5	27.18	0.0	117.23	87.22	24.0	0.838	205.87	102.00	6.35	252.33
198	17	6	30	252.9	19228.7	464.7	15.72	0.0	116.80	84.09	24.0	0.838	205.51	102.00	6.35	251.83
199	17	7	31	251.4	18105.3	2038.6	65.76	0.0	117.08	87.11	24.0	0.838	205.74	102.00	6.35	252.15
200	17	8	31	248.2	15897.1	953.8	30.77	0.0	115.03	85.58	24.0	0.837	204.01	102.00	6.35	249.81
201	17	9	30	252.4	18814.5	597.7	19.25	0.0	115.46	83.13	24.0	0.837	204.37	102.00	6.35	250.30
202	17	10	31	259.7	24449.4	879.6	9.283	0.0	120.46	89.63	24.0	0.839	208.58	102.00	6.35	256.03
203	17	11	30	261.1	25571.8	4182.4	4.339	0.0	124.28	89.48	24.0	0.840	211.72	102.00	6.35	260.39
204	17	12	31	259.7	24474.3	2064.5	66.60	0.0	124.29	92.48	24.0	0.840	211.73	102.00	6.35	260.40
						2677.7	87.93	0.0	120.62	88.03	24.0	0.839	634.6	3103.	6.35	256.20
205	18	1	31	257.5	22706.0	1393.7	44.96	0.0	122.73	91.31	24.0	0.840	210.45	102.00	6.35	258.62
206	18	2	28	255.0	20807.7	927.7	34.20	0.0	120.68	81.10	24.0	0.839	208.75	102.00	6.35	256.27
207	18	3	31	251.9	18450.9	805.2	25.97	0.0	118.21	87.95	24.0	0.838	206.70	102.00	6.35	253.45
208	18	4	30	248.5	16087.6	696.7	23.22	0.0	115.36	83.06	24.0	0.837	204.39	102.00	6.35	250.18
209	18	5	31	246.9	14985.9	2060.3	66.46	0.0	113.19	84.22	24.0	0.837	202.44	102.00	6.35	247.70
210	18	6	30	242.8	12333.3	407.4	13.58	0.0	110.72	79.72	24.0	0.836	200.30	102.00	6.35	244.86
211	18	7	31	244.5	13399.1	4237.8	136.38	0.0	109.67	81.60	24.0	0.836	199.39	102.00	6.35	243.65
212	18	8	31	245.2	13878.6	3641.5	117.47	0.0	110.71	82.37	24.0	0.836	200.30	102.00	6.35	244.85
213	18	9	30	252.3	18791.5	7972.9	265.76	0.0	114.13	82.17	24.0	0.837	203.24	102.00	6.35	248.77
214	18	10	31	257.2	22474.9	6845.4	220.82	0.0	119.36	88.81	24.0	0.839	207.66	102.00	6.35	254.77
215	18	11	30	259.0	23881.5	4466.7	148.89	0.0	122.88	88.04	24.0	0.839	210.07	102.00	6.35	258.10
216	18	12	31	258.2	23283.9	2564.4	82.73	0.0	122.73	91.31	24.0	0.840	210.45	102.00	6.35	258.61
						3003.3	98.37	0.0	116.65	85.14	24.0	0.838	624.5	3103.	6.35	251.65
217	19	1	31	256.2	21706.0	1584.1	51.10	0.0	121.51	90.41	24.0	0.839	209.45	102.00	6.35	257.23
218	19	2	28	253.9	19937.2	1087.2	38.83	0.0	119.61	80.38	24.0	0.839	207.86	102.00	6.35	255.05
219	19	3	31	250.7	17611.2	836.0	26.97	0.0	117.19	87.19	24.0	0.838	205.84	102.00	6.35	252.28
220	19	4	30	247.5	15370.5	819.3	27.31	0.0	114.39	82.36	24.0	0.837	203.46	102.00	6.35	249.07
221	19	5	31	243.7	12880.8	672.3	21.69	0.0	111.34	82.84	24.0	0.836	200.84	102.00	6.35	245.57
222	19	6	30	247.3	15274.5	5433.7	181.79	0.0	111.28	80.12	24.0	0.836	200.79	102.00	6.35	245.50
223	19	7	31	248.7	16224.1	4111.6	132.63	0.0	113.47	84.42	24.0	0.837	202.67	102.00	6.35	248.01
224	19	8	31	248.8	16271.4	3209.3	103.53	0.0	114.10	84.89	24.0	0.837	203.22	102.00	6.35	248.74
225	19	9	30	257.4	22620.0	9408.6	313.62	0.0	117.89	84.88	24.0	0.838	206.43	102.00	6.35	253.09
226	19	10	31	262.4	26649.1	7191.1	231.97	0.0	133.84	92.14	24.0	0.840	211.36	102.00	6.35	259.89
227	19	11	30	262.4	26692.7	3103.6	103.45	0.0	126.05	90.76	24.0	0.840	213.15	102.00	6.35	262.40
228	19	12	31	261.3	25725.1	2194.4	70.79	0.0	135.56	93.42	24.0	0.840	212.76	102.00	6.35	261.84
						3305.9	108.64	0.0	118.02	86.15	24.0	0.838	628.0	3103.	6.35	253.22
229	20	1	31	259.1	23958.1	1395.0	45.00	0.0	124.09	92.33	24.0	0.840	211.56	102.00	6.35	260.17
230	20	2	28	256.7	22107.9	1003.8	35.92	0.0	122.11	82.06	24.0	0.839	209.94	102.00	6.35	257.91
231	20	3	31	253.6	19751.1	803.2	25.97	0.0	119.73	89.08	24.0	0.839	207.96	102.00	6.35	255.18
232	20	4	30	250.7	17630.2	938.1	31.30	0.0	117.10	84.31	24.0	0.838	205.76	102.00	6.35	252.17
233	20	5	31	248.3	15941.3	1473.1	47.52	0.0	114.77	85.39	24.0	0.837	203.79	102.00	6.35	249.51
234	20	6	30	251.1	17874.9	4993.6	146.45	0.0	114.92	82.74	24.0	0.837	203.91	102.00	6.35	249.68
235	20	7	31	248.8	16256.4	1543.5	49.79	0.0	115.12	85.65	24.0	0.837	204.08	102.00	6.35	249.91
236	20	8	31	246.2	14513.0	1418.6	45.76	0.0	112.99	84.07	24.0	0.837	202.27	102.00	6.35	247.47
237	20	9	30	245.6	14111.7	2658.7	88.62	0.0	111.61	80.36	24.0	0.836	201.07	102.00	6.35	245.87
238	20	10	31	247.6	15459.8	4510.1	145.49	0.0	112.22	83.49	24.0	0.836	201.60	102.00	6.35	246.58
239	20	11	30	246.1	14438.8	2039.0	67.97	0.0	113.44	83.95	24.0	0.837	201.79	102.00	6.35	246.83
240	20	12	31	244.3	13272.5	1995.7	64.38	0.0	111.00	82.58	24.0	0.836	200.54	102.00	6.35	245.18
						2064.8	67.85	0.0	115.67	84.42	24.0	0.837	622.0	3103.	6.35	250.54

*** OPTIMAL SCHEDULE *** CASE 1 (AVAILABLE DRAWDOWN = 65 m)

NO.	YEAR	MON	DAY	H (M)	S (M3/S)	GIN (M3/SD)	QG (M3/SD)	QOUT (M3/SD)	P (MW)	E (GWH)	T (H)	ETG (M3/S)	QCR (M3/S)	GUP (M3/S)	LOSS (M)	SUII (CM)
289	1	31	261.5	25943.6	973.7	(31.41)	3162.0	(102.00)	126.42	94.06	24.0	0.841	213.46	102.00	6.35	262.83
290	2	28	259.0	23872.7	785.1	(28.04)	2856.0	(102.00)	0.0	124.16	24.0	0.840	211.62	102.00	6.35	260.25
291	3	31	255.9	21478.9	768.2	(24.78)	3162.0	(102.00)	0.0	121.71	24.0	0.839	209.61	102.00	6.35	257.45
292	4	30	253.0	19273.5	854.6	(28.49)	3050.0	(102.00)	0.0	119.09	24.0	0.838	207.43	102.00	6.35	254.45
293	5	31	250.9	17760.0	1648.5	(53.18)	3162.0	(102.00)	0.0	116.89	24.0	0.838	205.59	102.00	6.35	251.94
294	6	30	247.8	15607.4	907.4	(30.25)	3050.0	(102.00)	0.0	114.63	24.0	0.837	203.67	102.00	6.35	249.35
295	7	31	244.6	13452.6	1007.2	(32.49)	3162.0	(102.00)	0.0	111.88	24.0	0.836	201.50	102.00	6.35	246.19
296	8	31	240.3	10758.3	437.7	(14.12)	3162.0	(102.00)	0.0	108.60	24.0	0.835	198.45	102.00	6.35	242.41
297	9	30	245.3	13909.4	624.1	(18.08)	3050.0	(102.00)	0.0	108.90	24.0	0.835	198.71	102.00	6.35	242.76
298	10	31	252.9	19241.5	849.4	(12.74)	3162.0	(102.00)	0.0	114.42	24.0	0.837	203.49	102.00	6.35	249.10
299	11	30	255.7	21315.9	5134.4	(171.15)	3050.0	(102.00)	0.0	118.98	24.0	0.838	207.34	102.00	6.35	254.33
300	12	31	253.9	19936.3	1782.4	(57.50)	3162.0	(102.00)	0.0	119.39	24.0	0.839	207.68	102.00	6.35	254.79
					2419.5	(79.45)	3102.5	(102.00)	0.0	117.09	24.0	0.838	207.68	3103.	6.35	252.16
301	1	31	251.3	18035.2	1260.9	(40.67)	3162.0	(102.00)	0.0	117.45	24.0	0.838	206.06	102.00	6.35	252.58
302	2	28	248.4	16030.6	851.4	(30.41)	2856.0	(102.00)	0.0	115.07	24.0	0.837	204.04	102.00	6.35	249.85
303	3	31	244.8	13591.9	723.3	(23.33)	3162.0	(102.00)	0.0	112.24	24.0	0.836	201.62	102.00	6.35	246.60
304	4	30	241.3	11395.7	863.8	(28.79)	3050.0	(102.00)	0.0	109.16	24.0	0.836	198.94	102.00	6.35	243.06
305	5	31	239.6	10337.5	2103.3	(67.86)	3162.0	(102.00)	0.0	107.70	24.0	0.841	196.97	102.00	6.35	240.49
306	6	30	252.6	18964.5	5168.7	(138.97)	3050.0	(102.00)	0.0	111.80	24.0	0.836	201.24	102.00	6.35	246.10
307	7	31	257.1	22388.2	6585.7	(121.44)	3162.0	(102.00)	0.0	119.42	24.0	0.839	207.71	102.00	6.35	254.83
308	8	31	264.0	28031.0	8794.9	(283.71)	3162.0	(102.00)	0.0	124.42	24.0	0.840	211.83	102.00	6.35	260.55
309	9	30	272.1	35278.7	10317.7	(343.92)	3050.0	(102.00)	0.0	131.02	24.0	0.842	213.85	102.00	6.35	268.05
310	10	31	278.4	41379.6	9462.9	(298.80)	3162.0	(102.00)	0.0	133.88	24.0	0.822	202.13	102.00	6.35	275.24
311	11	30	279.6	42560.5	4240.9	(141.36)	3050.0	(102.00)	0.0	137.46	24.0	0.825	198.75	102.00	6.35	278.97
312	12	31	278.6	41563.9	2165.4	(69.85)	3162.0	(102.00)	0.0	137.55	24.0	0.825	198.68	102.00	6.35	279.06
					4304.8	(160.89)	3102.5	(102.00)	0.0	121.43	24.0	0.835	168.9	3103.	6.35	257.95
313	1	31	276.8	39787.6	1385.7	(44.70)	3162.0	(102.00)	0.0	136.22	24.0	0.824	199.98	102.00	6.35	277.68
314	2	28	274.8	37867.3	935.7	(33.42)	2856.0	(102.00)	0.0	134.42	24.0	0.823	201.60	102.00	6.35	275.80
315	3	31	272.2	35355.4	647.1	(20.87)	3162.0	(102.00)	0.0	132.21	24.0	0.821	203.82	102.00	6.35	273.50
316	4	30	269.8	33135.3	842.9	(28.10)	3050.0	(102.00)	0.0	129.80	24.0	0.819	206.41	102.00	6.35	270.99
317	5	31	267.0	30658.6	685.3	(22.11)	3162.0	(102.00)	0.0	127.35	24.0	0.816	213.21	102.00	6.35	268.41
318	6	30	265.9	29629.1	2030.5	(67.68)	3050.0	(102.00)	0.0	129.61	24.0	0.841	214.40	102.00	6.35	266.45
319	7	31	264.6	28529.6	2062.5	(66.53)	3162.0	(102.00)	0.0	128.53	24.0	0.841	214.40	102.00	6.35	265.23
320	8	31	263.8	27816.3	2448.7	(78.99)	3162.0	(102.00)	0.0	127.61	24.0	0.841	214.40	102.00	6.35	264.18
321	9	30	270.4	33682.8	8926.5	(297.55)	3050.0	(102.00)	0.0	130.16	24.0	0.842	214.40	102.00	6.35	267.07
322	10	31	276.9	39920.4	9399.7	(303.22)	3162.0	(102.00)	0.0	132.35	24.0	0.821	203.67	102.00	6.35	273.65
323	11	30	278.0	40997.0	4136.6	(137.89)	3050.0	(102.00)	0.0	136.01	24.0	0.824	200.17	102.00	6.35	277.46
324	12	31	277.1	40070.9	2355.9	(72.13)	3162.0	(102.00)	0.0	136.08	24.0	0.824	200.10	102.00	6.35	277.54
					2978.1	(97.76)	3102.5	(102.00)	0.0	131.70	24.0	0.828	6304.	3103.	6.35	271.50
325	1	31	275.3	38294.1	1385.2	(44.68)	3162.0	(102.00)	0.0	134.76	24.0	0.823	201.26	102.00	6.35	276.17
326	2	28	273.2	36355.1	917.0	(32.75)	2856.0	(102.00)	0.0	132.93	24.0	0.821	203.08	102.00	6.35	274.25
327	3	31	270.6	33836.3	643.2	(20.75)	3162.0	(102.00)	0.0	130.67	24.0	0.819	205.45	102.00	6.35	271.90
328	4	30	267.8	31366.0	589.7	(19.66)	3050.0	(102.00)	0.0	128.10	24.0	0.817	208.36	102.00	6.35	269.19
329	5	31	265.4	29234.1	1030.1	(33.23)	3162.0	(102.00)	0.0	129.76	24.0	0.842	214.40	102.00	6.35	266.62
330	6	30	265.7	29458.0	3283.9	(109.46)	3050.0	(102.00)	0.0	128.81	24.0	0.841	214.40	102.00	6.35	265.54
331	7	31	265.3	29166.7	2870.7	(92.60)	3162.0	(102.00)	0.0	128.77	24.0	0.841	214.40	102.00	6.35	265.50
332	8	31	266.6	30303.0	4398.3	(138.65)	3162.0	(102.00)	0.0	129.20	24.0	0.841	214.40	102.00	6.35	265.98
333	9	30	268.6	32060.6	4817.6	(160.59)	3050.0	(102.00)	0.0	130.64	24.0	0.842	214.40	102.00	6.35	267.62
334	10	31	270.2	33495.3	4596.7	(148.28)	3162.0	(102.00)	0.0	128.29	24.0	0.817	208.18	102.00	6.35	269.40
335	11	30	269.0	32408.3	1973.0	(65.77)	3050.0	(102.00)	0.0	128.47	24.0	0.817	207.93	102.00	6.35	269.59
336	12	31	266.2	29886.4	640.1	(20.65)	3162.0	(102.00)	0.0	130.60	24.0	0.842	214.24	102.00	6.35	267.58
					2253.8	(73.92)	3102.5	(102.00)	0.0	130.08	24.0	0.830	6589.	3103.	6.35	269.11

*** OPTIMAL SCHEDULE *** CASE 1 (AVAILABLE DRAWDOWN = 65 m)

NO.	YEAR	MON	DAY	H	S	GIN	QG	QOUT	P	E	T	ETG	QCR	QUP	LOSS	SUII
				(M)	(M ³ /SD)	(M ³ /SD)	(M ³ /SD)	(M ³ /SD)	(MW)	(CMWH)	(H)	(M ³ /S)	(M ³ /S)	(M ³ /S)	(M)	(M)
549	45	1	31	278.9	41932.8	817.6	3162.0	0.0	138.54	103.07	24.0	0.826	197.81	102.00	6.35	280.08
550		2	28	276.7	39721.9	645.1	2856.0	0.0	136.36	91.64	24.0	0.824	199.75	102.00	6.35	277.83
551		3	31	274.1	37130.6	570.7	3162.0	0.0	134.02	99.71	24.0	0.822	201.99	102.00	6.35	275.39
552		4	30	271.4	34581.2	510.6	3060.0	0.0	131.45	94.64	24.0	0.820	204.62	102.00	6.35	272.71
553		5	31	268.9	32315.6	456.4	3162.0	0.0	128.98	95.96	24.0	0.818	207.34	102.00	6.35	270.12
554		6	30	272.9	35991.7	673.6	3060.0	0.0	129.70	97.94	24.0	0.819	206.53	102.00	6.35	270.88
555		7	31	272.9	36073.0	3243.4	3162.0	0.0	131.63	97.94	24.0	0.820	204.42	102.00	6.35	272.91
556		8	31	273.0	36149.2	3258.2	3162.0	0.0	131.72	98.00	24.0	0.820	204.53	102.00	6.35	273.00
557		9	30	277.6	40644.5	837.5	3060.0	0.0	183.68	131.25	24.0	0.885	202.03	130.00	6.35	275.35
558		10	31	282.3	45396.4	878.1	4030.0	0.0	189.80	141.21	24.0	0.890	197.89	130.00	6.35	279.97
559		11	30	285.0	48263.9	6184.5	3300.0	17.0	151.47	109.06	24.0	0.821	193.85	110.00	6.35	283.65
560		12	31	283.7	46917.1	1815.2	3162.0	0.0	138.94	103.37	24.0	0.808	192.92	102.00	6.35	284.37
561						3486.2	3264.8	1.4	143.86	105.02		0.831	611.8	3265.	6.35	276.35
562	46	1	31	281.9	45031.5	1276.4	3162.0	0.0	137.58	102.36	24.0	0.807	195.55	102.00	6.35	282.84
563		2	28	280.1	43164.0	988.5	2856.0	0.0	139.47	93.73	24.0	0.827	197.00	102.00	6.35	281.04
564		3	31	277.8	40782.7	780.7	3162.0	0.0	137.46	102.27	24.0	0.825	198.76	102.00	6.35	278.96
565		4	30	275.3	38359.0	636.3	3060.0	0.0	135.14	97.30	24.0	0.823	200.90	102.00	6.35	276.56
566		5	31	274.2	37287.9	2090.9	3162.0	0.0	133.43	98.27	24.0	0.822	202.58	102.00	6.35	274.77
567		6	30	274.2	37295.4	3067.5	3060.0	0.0	132.90	95.69	24.0	0.821	203.11	102.00	6.35	274.22
568		7	31	273.6	36687.0	2353.6	3162.0	0.0	132.60	98.65	24.0	0.821	203.42	102.00	6.35	273.91
569		8	31	272.4	35582.0	2067.0	3162.0	0.0	131.74	98.02	24.0	0.820	204.31	102.00	6.35	273.02
570		9	30	274.0	37051.7	4529.8	3060.0	0.0	131.93	94.99	24.0	0.821	204.11	102.00	6.35	273.21
571		10	31	276.4	39434.5	5514.8	3162.0	0.0	133.83	99.57	24.0	0.822	202.17	102.00	6.35	275.20
572		11	30	274.6	37666.8	1272.3	3060.0	0.0	134.11	96.56	24.0	0.822	201.89	102.00	6.35	275.49
573		12	31	272.1	35251.4	786.6	3162.0	0.0	132.04	98.24	24.0	0.821	204.00	102.00	6.35	273.52
574						2130.4	3102.5	0.0	134.35	98.05		0.821	612.9	3103.	6.35	276.05
575	47	1	31	269.5	32838.4	749.0	3162.0	0.0	129.60	96.42	24.0	0.818	206.64	102.00	6.35	270.77
576		2	28	267.0	30639.5	657.1	2856.0	0.0	131.18	88.15	24.0	0.842	213.42	102.00	6.35	268.24
577		3	31	264.1	28117.3	639.8	3162.0	0.0	128.85	95.85	24.0	0.841	214.40	102.00	6.35	265.57
578		4	30	261.4	25877.6	820.3	3060.0	0.0	126.38	90.99	24.0	0.841	213.42	102.00	6.35	262.78
579		5	31	258.1	23149.4	433.8	3162.0	0.0	123.73	92.06	24.0	0.840	211.87	102.00	6.35	259.76
580		6	30	267.7	31236.8	1147.4	3060.0	0.0	126.47	91.06	24.0	0.841	213.49	102.00	6.35	262.88
581		7	31	267.4	31002.4	2927.6	3162.0	0.0	130.58	97.15	24.0	0.842	214.26	102.00	6.35	267.56
582		8	31	270.8	34059.9	6219.5	3162.0	0.0	128.02	95.24	24.0	0.817	208.45	102.00	6.35	269.11
583		9	32	276.9	39851.2	9065.3	3264.0	0.0	132.52	101.78	24.0	0.821	203.50	102.00	6.35	273.83
584		10	31	281.7	44809.9	8978.7	4030.0	0.0	188.90	140.54	24.0	0.889	198.47	130.00	6.35	279.30
585		11	30	284.8	48052.7	7142.8	3900.0	0.0	188.60	135.79	24.0	0.867	192.85	130.00	6.35	283.27
586		12	31	283.6	46782.4	1891.8	3162.0	0.0	138.80	103.27	24.0	0.808	192.98	102.00	6.35	284.21
587						4222.7	3261.8	0.0	139.47	102.36		0.839	632.9	3262.	6.35	270.61
588	48	1	31	281.3	44357.6	1395.2	3730.0	0.0	174.52	129.84	24.0	0.873	195.86	120.00	6.35	282.46
589		2	28	279.6	42560.9	1059.3	2856.0	0.0	138.87	93.32	24.0	0.827	197.51	102.00	6.35	280.43
590		3	31	277.1	40144.3	745.4	3162.0	0.0	136.87	101.83	24.0	0.825	199.29	102.00	6.35	278.35
591		4	30	274.7	37747.7	663.4	3060.0	0.0	134.53	96.86	24.0	0.823	201.49	102.00	6.35	275.92
592		5	31	272.1	35284.1	1566.4	3060.0	0.0	181.11	134.75	24.0	0.884	203.02	130.00	6.35	273.40
593		6	30	276.5	39523.7	8139.6	4030.0	0.0	182.31	131.27	24.0	0.884	203.02	130.00	6.35	274.31
594		7	31	278.7	41651.3	6157.6	4030.0	0.0	186.63	138.85	24.0	0.888	199.97	130.00	6.35	277.59
595		8	31	280.9	43994.5	6373.2	4030.0	0.0	189.57	141.04	24.0	0.890	198.04	130.00	6.35	279.80
596		9	30	284.0	47180.6	7086.1	3900.0	0.0	193.13	139.05	24.0	0.892	195.84	130.00	6.35	282.47
597		10	31	284.7	47951.5	6195.9	5425.0	0.0	265.01	197.17	24.0	0.901	192.96	175.00	6.35	284.35
598		11	30	283.4	46558.0	2506.5	3900.0	0.0	189.65	136.54	24.0	0.868	193.22	130.00	6.35	284.05
599		12	31	281.3	44371.4	1843.4	4030.0	0.0	192.98	143.58	24.0	0.892	195.95	130.00	6.35	282.56
600						3656.0	3836.9	0.0	180.43	132.01		0.870	602.5	3837.	6.35	279.62

*** OPTIMAL SCHEDULE *** CASE 1 (AVAILABLE DRAWDOWN = 65 m)

NO.	YEAR	MON	DAY	H (M)	S (M3/SD)	GIN (M3/SD)	QG (M3/SD)	GOUT (M3/SD)	P (CMW)	E (GWH)	T (CH)	ETG (M3/S)	GCR (M3/S)	QUP (M3/S)	LOSS (M)	SUII (M)
577	49	1	31	278.6	41586.8	1245.4(40.17)	4030.0(130.00)	0.0	189.77	141.19	24.0	0.890	197.91	130.00	6.35	279.95
578		2	28	276.0	39012.5	1065.7(38.06)	3640.0(130.00)	0.0	186.25	125.16	24.0	0.887	200.23	130.00	6.35	277.29
579		3	31	272.5	35674.3	691.8(28.32)	4030.0(130.00)	0.0	182.24	135.59	24.0	0.884	203.08	130.00	6.35	274.26
580		4	30	269.1	32541.0	766.7(25.56)	3900.0(130.00)	0.0	177.74	127.97	24.0	0.881	206.58	130.00	6.35	270.83
581		5	31	266.9	30515.8	1136.8(36.67)	3162.0(102.00)	0.0	130.98	97.45	24.0	0.842	213.71	102.00	6.35	268.01
582		6	30	266.8	30491.2	3875.4(129.18)	3900.0(130.00)	0.0	177.02	127.45	24.0	0.900	214.40	130.00	6.35	266.86
583		7	31	267.0	30635.3	4174.1(134.65)	4030.0(130.00)	0.0	177.10	131.76	24.0	0.900	214.40	130.00	6.35	266.93
584		8	31	269.2	32558.6	5953.3(192.04)	4030.0(130.00)	0.0	178.46	132.77	24.0	0.900	213.62	130.00	6.35	268.08
585		9	30	276.9	39939.4	11280.8(376.03)	3900.0(130.00)	0.0	180.65	130.07	24.0	0.883	204.28	130.00	6.35	273.05
586		10	31	284.3	47479.2	11569.9(373.22)	4030.0(130.00)	0.0	190.64	141.84	24.0	0.890	197.36	130.00	6.35	280.60
587		11	30	283.3	46454.3	4225.1(140.84)	5250.0(175.00)	0.0	264.05	190.11	24.0	0.900	193.64	175.00	6.35	283.79
588		12	31	280.9	43915.3	1491.0(48.10)	4030.0(130.00)	0.0	192.62	143.51	24.0	0.892	196.15	130.00	6.35	282.09
						3956.3(129.74)	3994.3(131.42)	0.0	185.63	135.59		0.888	6225.	3994.	6.34	274.31
589	50	1	31	278.0	40956.2	1070.9(34.55)	4030.0(130.00)	0.0	189.06	140.66	24.0	0.889	198.36	130.00	6.35	279.42
590		2	28	275.1	38119.5	803.3(28.69)	3640.0(130.00)	0.0	185.22	124.47	24.0	0.887	200.94	130.00	6.35	276.52
591		3	31	270.1	33395.9	701.4(22.63)	5425.0(175.00)	0.0	248.43	184.83	24.0	0.907	204.76	175.00	6.35	272.58
592		4	30	266.5	30145.9	650.0(21.67)	3900.0(130.00)	0.0	178.67	128.64	24.0	0.901	213.39	130.00	6.35	268.27
593		5	31	263.9	27913.8	1797.9(58.00)	4030.0(130.00)	0.0	175.02	130.22	24.0	0.900	214.40	130.00	6.35	265.17
594		6	30	266.1	29847.7	5833.9(194.46)	3900.0(130.00)	0.0	174.82	125.87	24.0	0.900	214.40	130.00	6.35	265.00
595		7	31	266.9	30540.9	4723.2(152.36)	4030.0(130.00)	0.0	176.61	131.39	24.0	0.900	214.40	130.00	6.35	266.51
596		8	31	268.5	31999.0	6728.1(217.04)	5270.0(170.00)	0.0	233.04	173.38	24.0	0.903	214.06	170.00	6.34	267.72
597		9	30	278.1	41085.4	14636.4(487.88)	5550.0(185.00)	0.0	262.86	189.26	24.0	0.904	204.02	185.00	6.35	273.31
598		10	31	283.8	48962.1	11301.7(364.57)	5425.0(175.00)	0.0	261.02	194.20	24.0	0.905	197.09	175.00	6.35	280.94
599		11	30	285.0	48263.9	6728.6(224.29)	5400.0(180.00)	26.8	271.65	195.59	24.0	0.898	192.90	180.00	6.35	284.39
600		12	31	283.9	47092.7	2858.8(92.22)	4030.0(130.00)	0.0	190.17	141.49	24.0	0.868	192.79	130.00	6.35	284.45
						4819.5(158.19)	4552.5(149.58)	2.2	212.22	155.00		0.897	6240.	4553.	6.34	273.69

40058.8(*****40057.7(*****)) 1.3 1694.12 1236.83

0.844 74252. 40058. 6.35

* MONTHLY INFLOW (M3/S) * CASE 1 (AVAILABLE DRAWDOWN = 65 m)

NO. YEAR	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	< TOTAL >
1	41.57	31.28	20.96	23.39	8.49	240.29	53.48	74.33	384.96	281.64	252.23	65.81	1478.43
2	40.73	37.39	21.93	19.61	33.01	148.72	225.84	176.87	248.03	178.78	103.89	60.04	1294.83
3	35.59	31.43	24.81	28.31	61.41	265.20	92.56	202.49	306.11	210.88	108.30	56.55	1421.64
4	37.35	25.30	18.19	22.05	37.83	324.74	217.19	227.47	208.87	283.77	124.08	40.14	1566.95
5	28.59	25.18	20.50	29.81	37.25	37.39	81.72	160.87	101.93	177.40	71.45	39.80	811.59
6	39.02	23.30	20.22	26.49	28.32	90.96	136.61	112.44	251.01	241.73	25.94	58.50	1044.54
7	38.43	32.98	24.81	19.82	35.89	45.12	55.59	115.00	325.52	226.63	114.67	62.09	1096.53
8	36.88	37.86	23.88	22.86	51.44	103.21	74.06	85.68	203.29	241.25	66.76	78.37	1024.94
9	45.54	35.71	26.67	23.82	34.49	117.23	66.14	131.68	193.96	241.05	155.65	43.70	1117.64
10	32.35	25.02	21.18	17.59	62.53	246.31	60.47	162.26	178.54	216.65	165.97	53.64	1304.81
11	36.74	27.50	21.13	21.41	27.49	192.58	182.25	178.54	323.34	301.14	151.35	56.17	1519.63
12	36.09	28.72	23.28	23.62	46.92	183.00	211.24	271.46	266.65	270.07	115.19	44.87	1521.11
13	30.45	28.60	22.91	22.39	53.36	98.04	159.28	123.62	513.33	295.33	244.92	57.25	1649.48
14	37.56	27.14	22.69	24.51	51.85	126.83	133.67	152.89	148.40	292.52	94.07	47.14	1159.28
15	30.48	24.81	17.42	22.46	60.36	105.64	117.23	106.17	144.84	257.72	88.43	72.52	1048.08
16	44.72	32.24	28.24	18.82	33.03	73.19	112.71	33.63	177.43	177.51	72.20	46.44	883.57
17	31.95	23.79	17.50	14.50	27.18	154.72	65.76	30.77	199.25	283.77	139.41	66.60	1055.20
18	44.96	34.20	25.97	23.22	66.46	13.58	136.38	117.47	265.76	220.82	148.89	82.72	1180.44
19	51.10	38.83	26.97	27.31	21.69	181.79	132.63	103.53	313.62	231.97	103.45	70.79	1303.67
20	45.00	35.92	25.97	31.30	47.52	166.45	49.79	45.76	88.62	145.49	67.97	64.38	814.18
21	43.83	35.28	23.77	31.64	53.87	235.57	166.55	350.52	410.08	310.87	212.57	38.97	1913.70
22	28.88	22.60	19.35	14.95	23.98	192.53	86.53	92.41	156.31	113.63	3.23	39.33	793.93
23	28.35	22.19	11.71	9.78	42.32	257.90	58.98	81.62	91.79	168.60	118.35	63.52	955.09
24	38.26	31.15	21.75	17.60	40.34	305.46	209.47	247.02	311.87	258.48	184.14	48.09	1713.64
25	31.41	28.04	24.78	28.49	53.18	30.25	32.49	14.12	208.04	274.00	171.15	57.50	953.43
26	40.67	30.41	23.33	28.79	67.86	389.57	212.44	283.71	343.92	298.80	141.36	69.85	1930.73
27	44.70	33.42	20.87	28.10	22.11	67.68	66.53	78.99	297.55	303.22	137.89	72.13	1173.18
28	44.68	32.75	20.75	19.66	33.23	109.46	92.60	138.65	160.59	148.28	65.77	20.65	887.07
29	19.81	14.62	13.86	17.75	32.04	174.29	90.78	95.56	234.52	246.61	91.32	44.26	1076.41
30	31.88	24.55	19.95	22.52	72.29	118.12	235.77	205.01	215.60	215.37	42.27	45.89	1249.21
31	28.25	21.27	18.48	18.88	63.33	443.99	197.87	232.56	255.07	232.02	223.30	57.18	1792.21
32	39.35	31.41	25.57	18.33	20.43	83.08	224.74	254.87	296.12	282.46	55.61	52.95	1384.93
33	31.62	25.21	17.56	17.52	46.56	43.66	160.47	200.67	257.76	263.37	170.87	41.28	1276.56
34	31.04	19.83	20.94	18.69	29.60	103.99	64.16	158.14	156.95	177.76	42.85	37.71	861.67
35	30.02	23.61	15.27	15.58	66.98	236.01	191.27	237.89	320.90	380.74	223.12	76.87	1818.27
36	46.64	33.68	24.87	22.86	27.49	66.56	81.39	128.50	224.02	294.27	232.57	87.13	1329.99
37	53.15	46.86	29.09	28.78	26.51	188.92	181.59	298.51	313.71	252.53	61.48	58.97	1540.09
38	34.30	26.30	20.42	15.11	39.27	40.73	39.48	130.07	426.01	493.06	265.08	65.89	1595.72
39	38.96	29.20	20.71	19.66	11.22	280.56	89.92	115.35	359.93	263.27	5.53	57.77	1292.10
40	36.79	29.81	24.90	32.34	40.92	122.53	120.29	163.93	404.78	348.03	193.59	55.01	1571.92
41	40.85	33.16	26.27	17.82	28.38	117.67	111.93	201.29	218.29	339.11	217.22	59.78	1411.79
42	38.22	26.70	21.22	16.06	64.18	93.02	101.81	207.12	205.20	295.59	106.47	60.15	1235.73
43	39.23	31.93	25.35	26.27	41.07	192.93	164.42	186.16	249.91	294.59	168.81	57.99	1478.45
44	38.25	31.78	20.67	21.95	31.85	424.67	223.64	148.45	220.40	135.95	67.79	37.29	1402.69
45	26.37	23.04	18.41	17.02	28.92	224.54	104.63	105.10	279.18	283.29	206.15	58.55	1375.19
46	41.17	35.30	25.18	21.21	67.45	102.25	82.37	67.68	150.99	177.90	42.41	25.37	838.29
47	24.16	23.47	20.64	27.34	13.99	371.58	94.44	200.63	283.29	289.64	238.09	61.03	1648.30
48	41.78	37.83	24.05	22.11	50.53	271.32	198.63	203.59	236.20	199.87	83.55	59.46	1430.92
49	40.17	38.06	22.32	25.56	36.67	129.18	134.65	192.04	376.03	373.22	140.84	48.10	1556.83
50	34.55	28.69	22.63	21.67	58.00	194.46	152.36	217.04	487.88	364.57	224.29	92.22	1898.34
TOTAL	1841.54	1479.36	1093.29	1107.35	2062.09	8527.61	6336.79	7850.02	13098.58	12955.16	6612.44	2818.39	65682.81
AVE	36.83	29.59	21.87	22.15	41.24	170.55	126.74	157.00	261.97	257.10	132.25	56.37	1313.66
MAX	53.15	46.86	29.09	32.34	72.29	443.99	235.77	350.52	513.33	493.06	292.57	92.22	1930.73
MIN	19.81	14.62	11.71	9.78	8.49	13.58	32.49	14.12	88.62	113.83	3.23	20.65	793.93