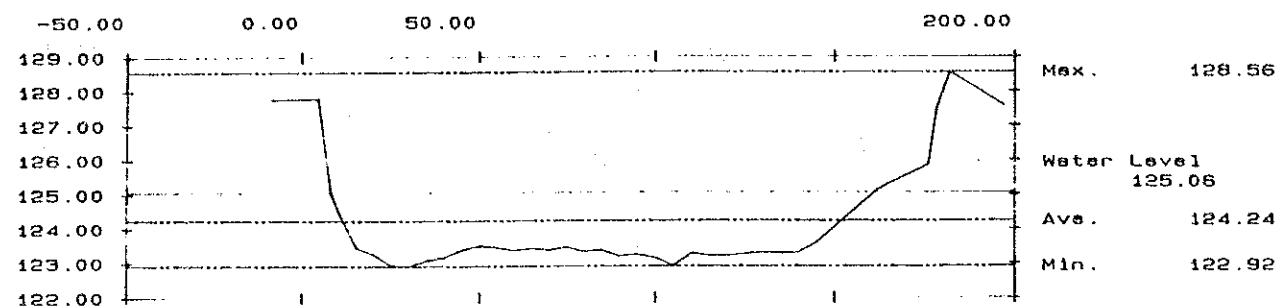
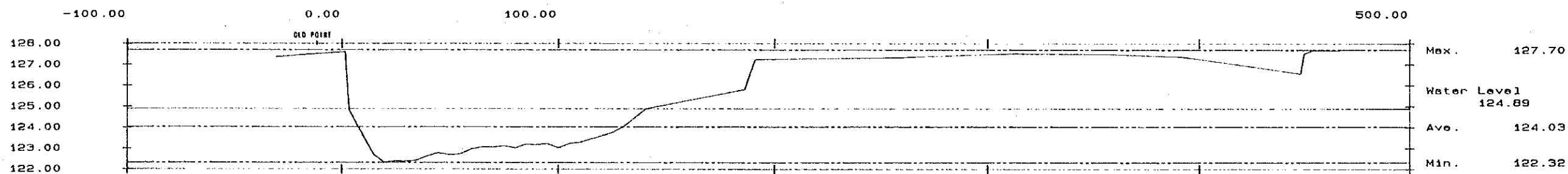


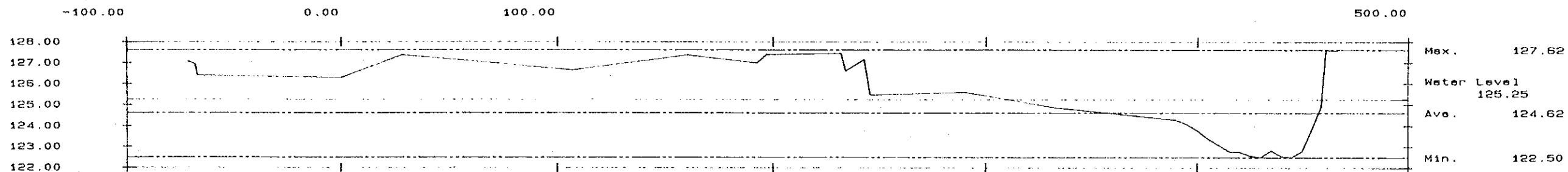
SECTION 25



SECTION 26

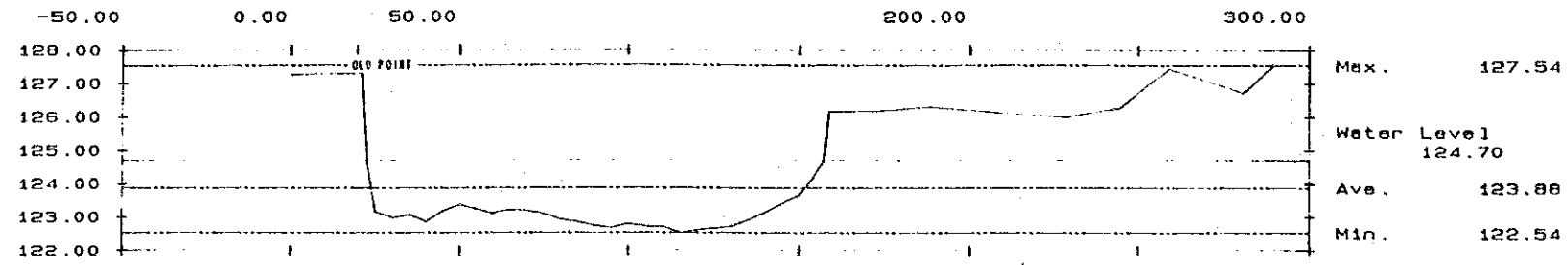


SECTION 27

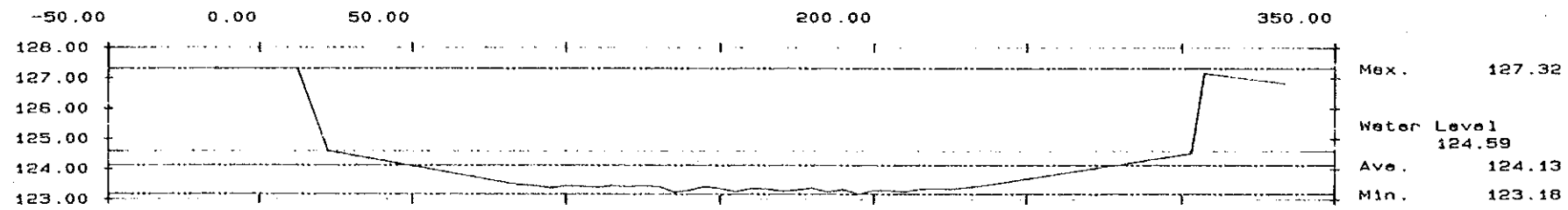


THE REPUBLIC OF VENEZUELA			
STUDY ON COMPREHENSIVE IMPROVEMENT			
OF THE APURE RIVER BASIN			
CROSS SECTION			
GUASDUALITO 9/19			
PLAN NO.	82	SCALE	H:1:1000 V:1:100
SURVEY DATE	JANUARY MARCH 1993		
JICA		JAPAN INTERNATIONAL	
COOPERATION AGENCY			

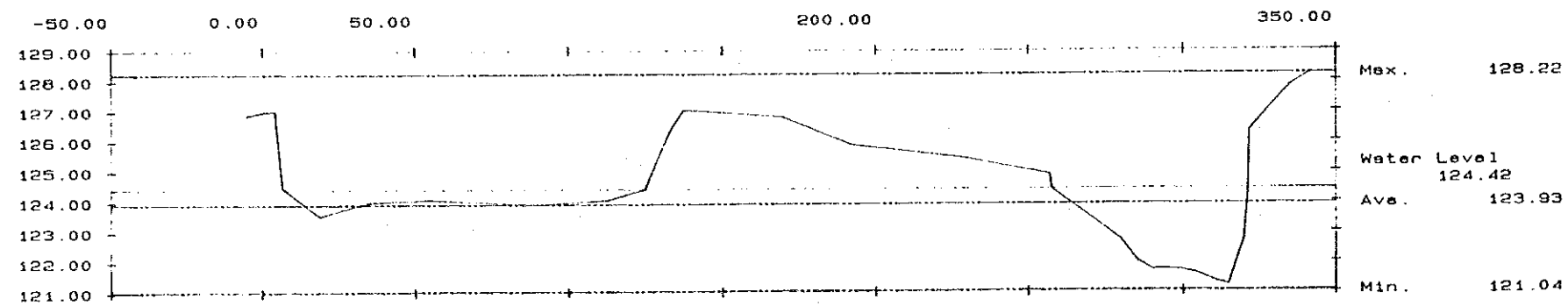
SECTION 28




SECTION 29

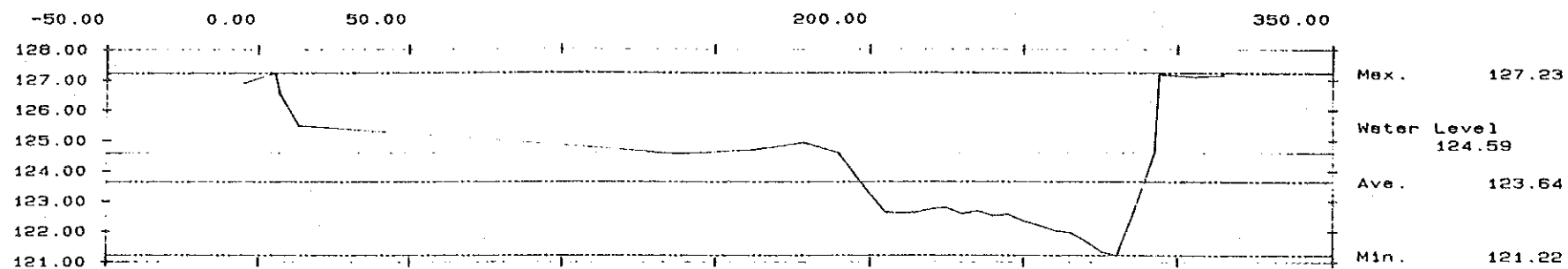


SECTION 30

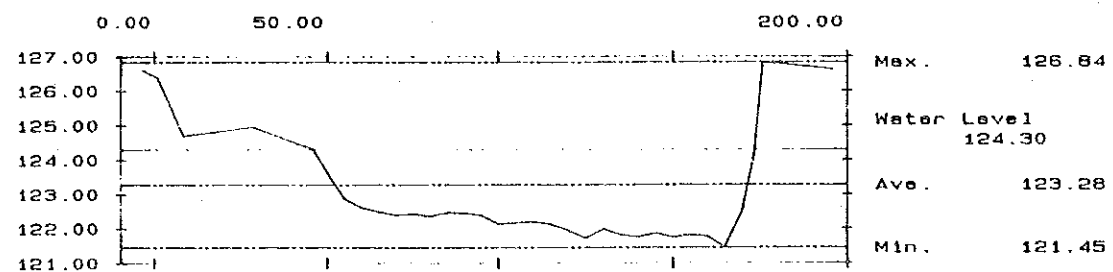


THE REPUBLIC OF VENEZUELA	
STUDY ON COMPREHENSIVE IMPROVEMENT	
OF THE APURE RIVER BASIN	
CROSS SECTION	
GUASDUALITO 10/19	
PLAN NO. 83	SCALE H:1:1000 V:1:100
SURVEY DATE	JANUARY MARCH 1993
 JAPAN INTERNATIONAL COOPERATION AGENCY	

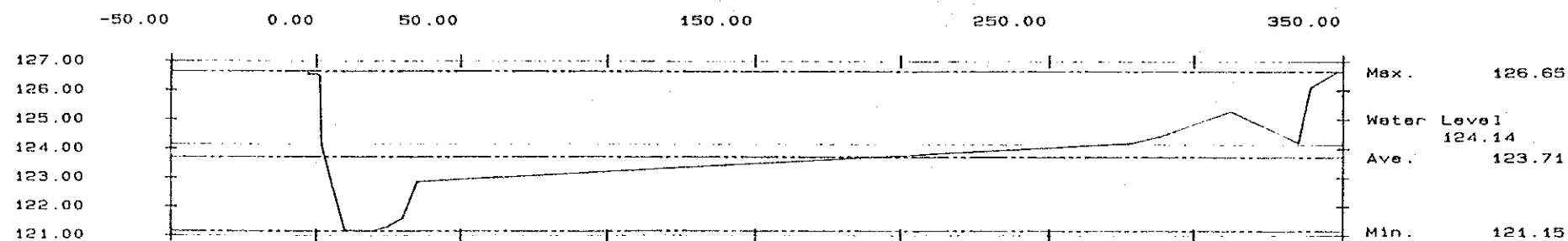
SECTION 31



SECTION 32

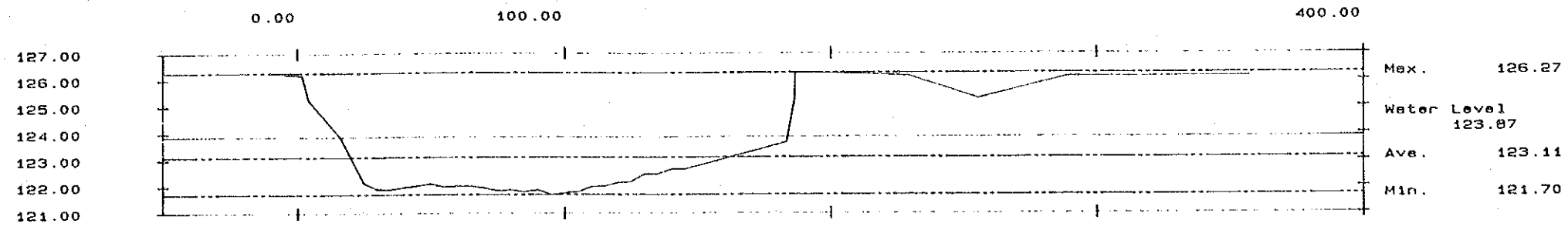


SECTION 33

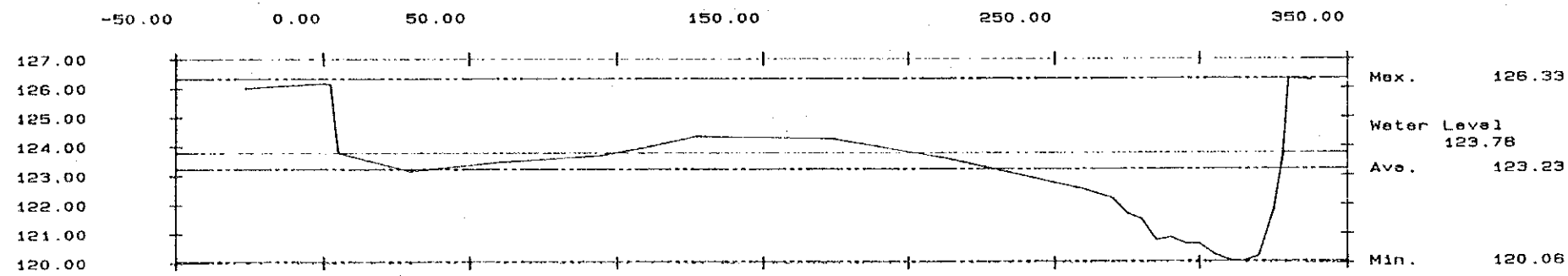


THE REPUBLIC OF VENEZUELA			
STUDY ON COMPREHENSIVE IMPROVEMENT			
OF THE APURE RIVER BASIN			
CROSS SECTION			
GUASDUALITO II/19			
PLAN NO.	84	SCALE	H 1:1000 V 1:100
SURVEY DATE	JANUARY MARCH 1993		
JICA		JAPAN INTERNATIONAL COOPERATION AGENCY	

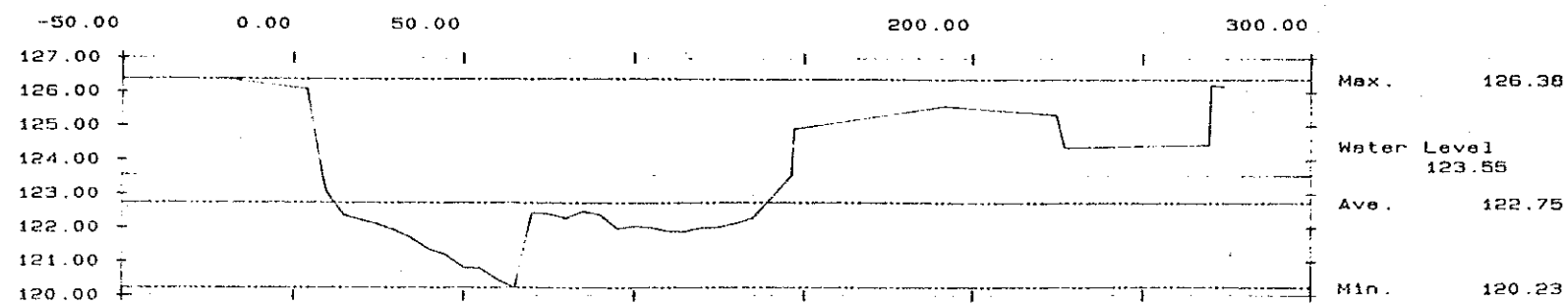
SECTION 34



SECTION 35

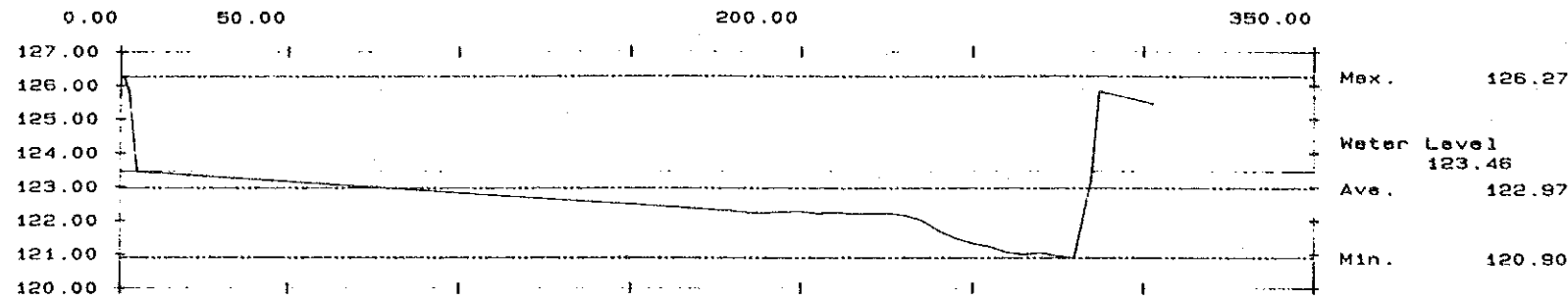


SECTION 36

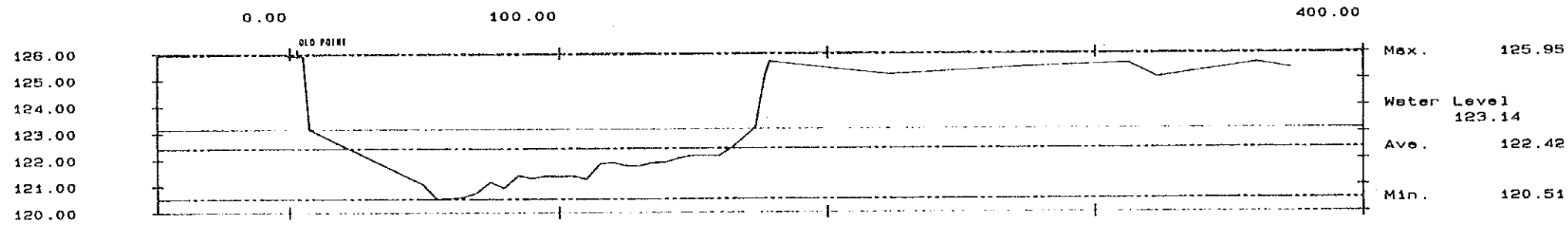


THE REPUBLIC OF VENEZUELA			
STUDY ON COMPREHENSIVE IMPROVEMENT			
OF THE APURE RIVER BASIN			
CROSS SECTION			
GUASDUALITO 12/19			
PLAN NO.	85	SCALE	H:1:1000 V:1:100
SURVEY DATE	JANUARY - MARCH 1993		
JICA		JAPAN INTERNATIONAL	
COOPERATION AGENCY			

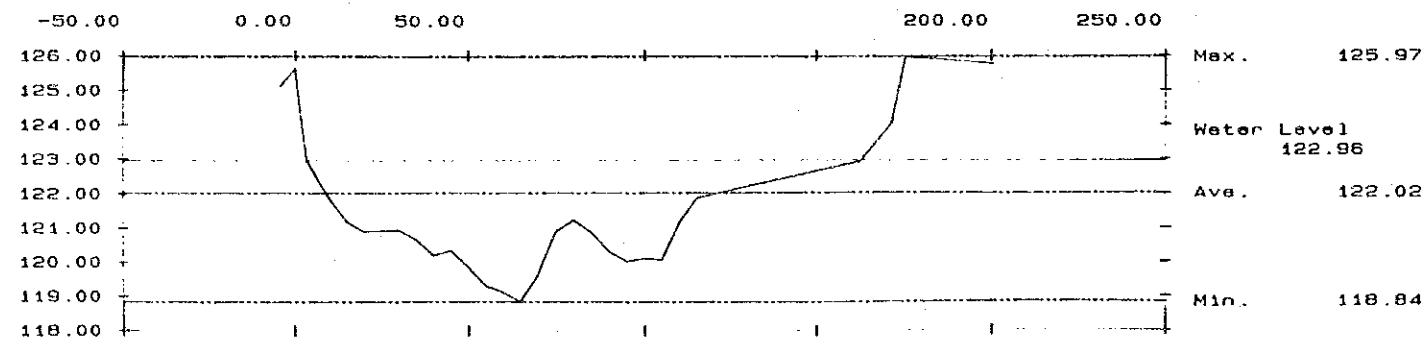
SECTION 37



SECTION 38

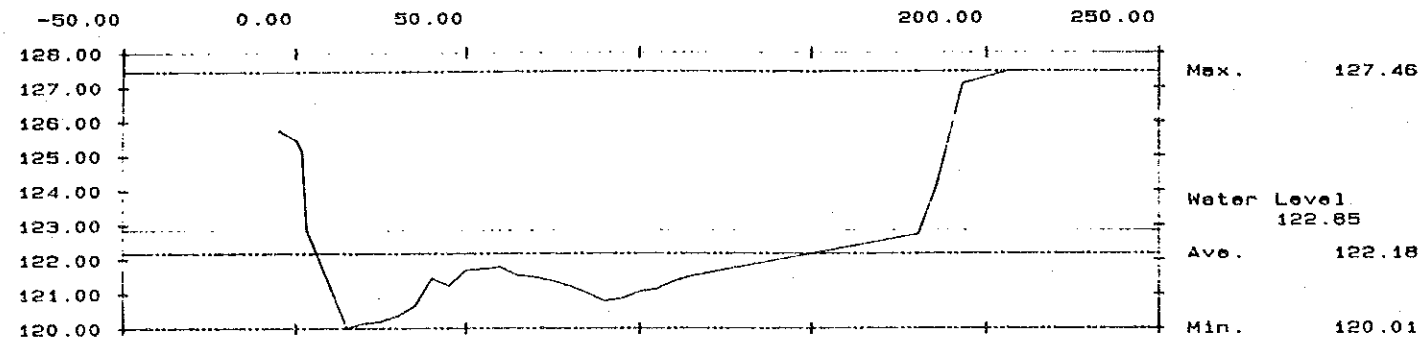


SECTION 39

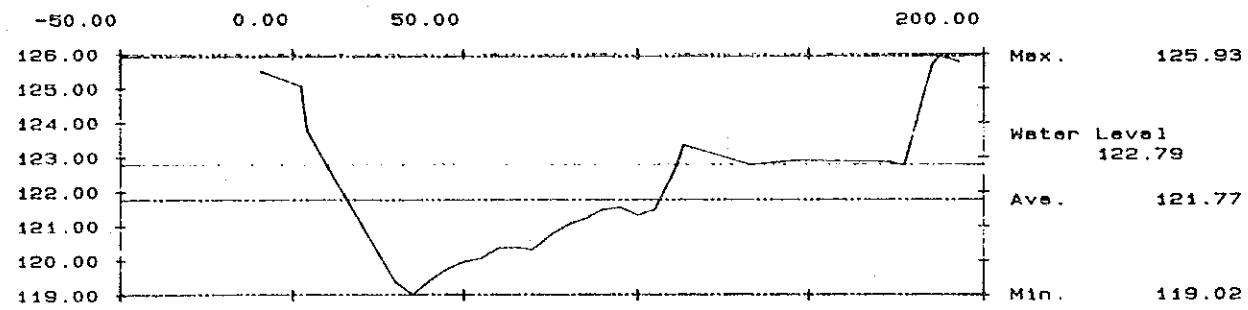


THE REPUBLIC OF VENEZUELA			
STUDY ON COMPREHENSIVE IMPROVEMENT			
OF THE APURE RIVER BASIN			
CROSS SECTION			
GUASDUALITO 13/19			
PLAN NO.	86	SCALE	H-1:1000 V-1:100
SURVEY DATE	JANUARY MARCH 1993		
JICA		JAPAN INTERNATIONAL	
COOPERATION AGENCY			

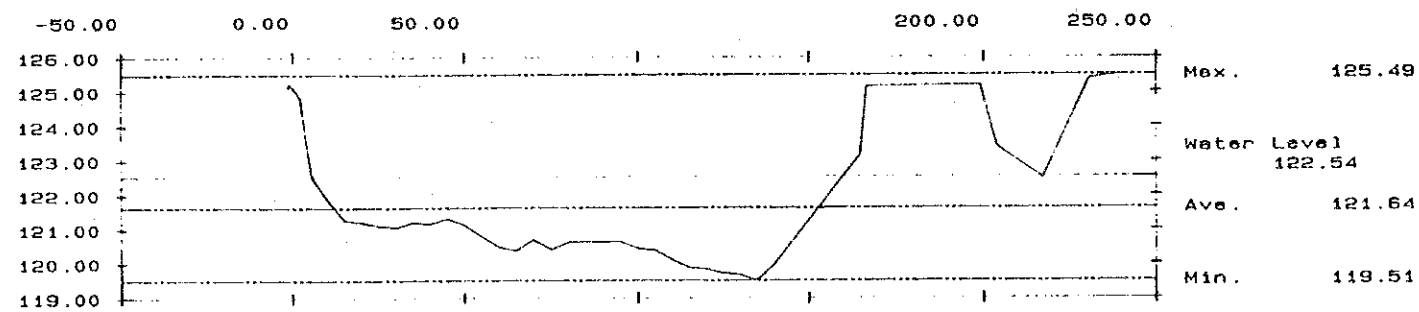
SECTION 40



SECTION 41

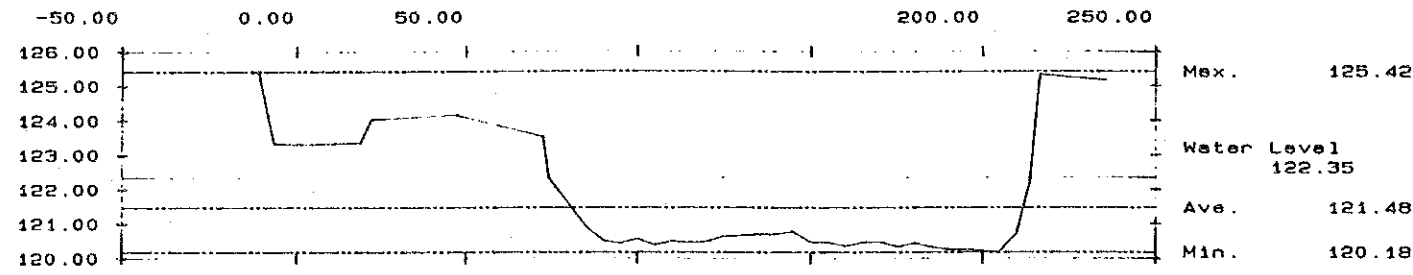


SECTION 42

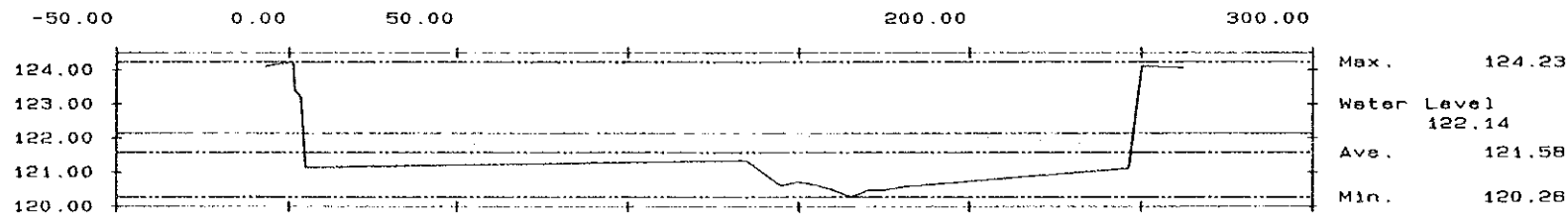


THE REPUBLIC OF VENEZUELA			
STUDY ON COMPREHENSIVE IMPROVEMENT			
OF THE APURE RIVER BASIN			
CROSS SECTION			
GUASDUALITO 14/19			
PLAN NO.	87	SCALE	H:1:1000 V:1:100
SURVEY DATE	JANUARY - MARCH 1993		
JICA		JAPAN INTERNATIONAL	
COOPERATION AGENCY			

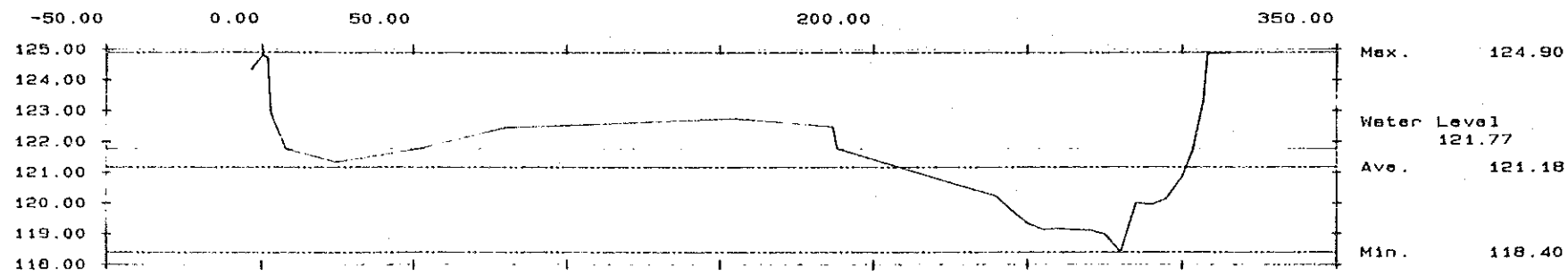
SECTION 43



SECTION 44

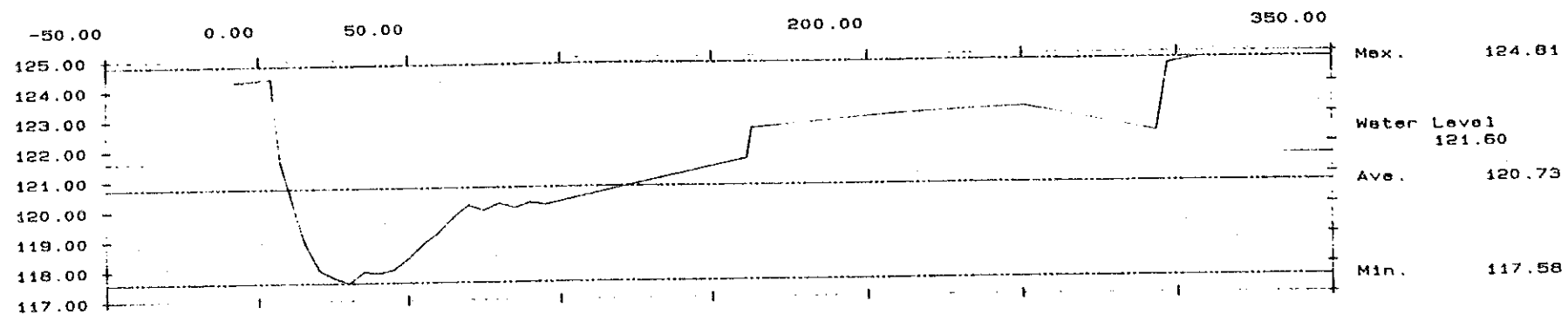


SECTION 45

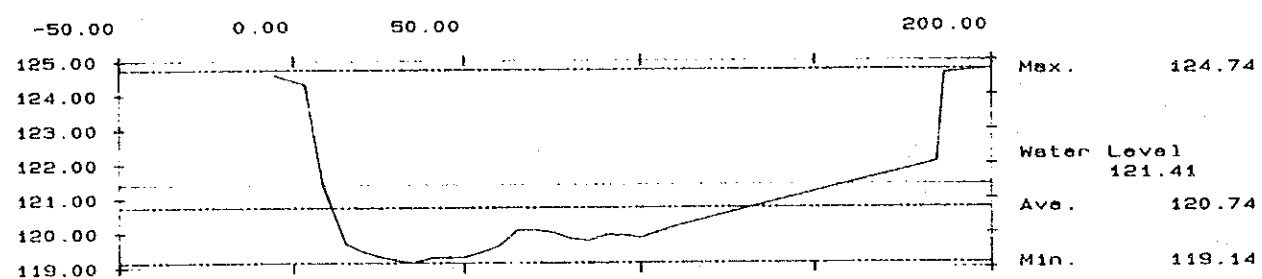


THE REPUBLIC OF VENEZUELA			
STUDY ON COMPREHENSIVE IMPROVEMENT			
OF THE APURE RIVER BASIN			
CROSS SECTION			
GUASDUALITO 15/19			
PLAN NO.	88	SCALE	H:1:1000 V:1:100
SURVEY DATE	JANUARY-MARCH 1993		
JICA		JAPAN INTERNATIONAL	
COOPERATION AGENCY			

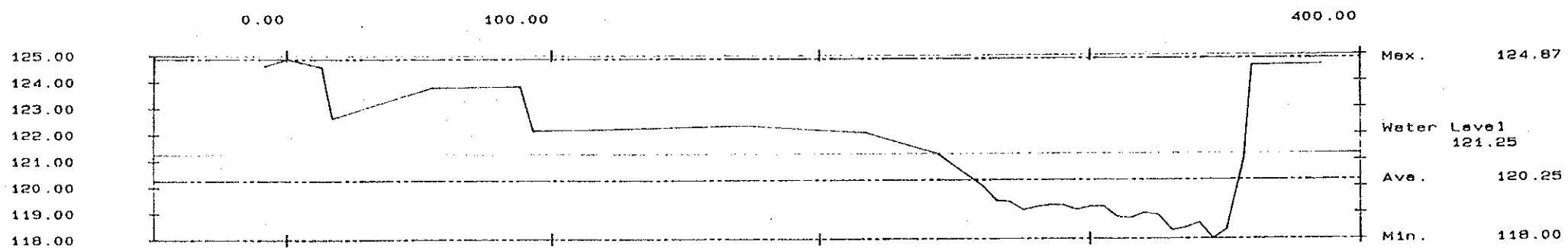
SECTION 46




SECTION 47



SECTION 48



THE REPUBLIC OF VENEZUELA			
STUDY ON COMPREHENSIVE IMPROVEMENT			
OF THE APURE RIVER BASIN			
CROSS SECTION			
GUASDUALITO 16/19			
PLAN NO.	89	SCALE	H:1:1000 V:1:100
SURVEY DATE	JANUARY-MARCH 1993		
		JAPAN INTERNATIONAL COOPERATION AGENCY	

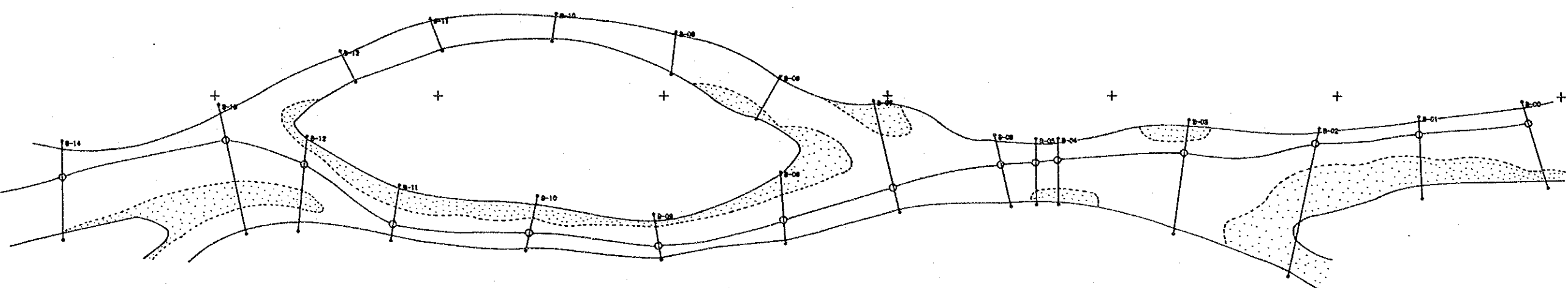
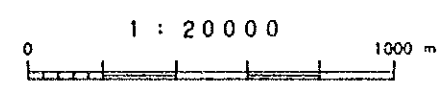
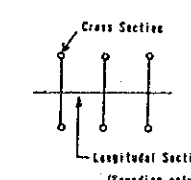


Table 2 Result of control point survey Bruzual (I)
Feb. 1993

Station	Northing	Easting	Elevat.
S. Vicenti	895,047,053	465,460,584	
Bruzual	890,187,949	464,537,763	
B-00-D	890,877,391	465,822,670	78.408
B-00-C	890,889,247	465,845,104	78.415
B-01-D	890,908,229	465,865,060	78.460
B-01-C	890,938,200	465,883,722	78.628
B-02-C	890,853,805	464,920,356	78.490
B-02-B	890,341,794	464,857,739	78.908
B-02-A	890,185,319	464,787,848	78.931
B-03-I	890,892,593	464,849,661	78.000
B-03-D	890,375,348	464,775,821	78.400
B-04-I	890,807,488	463,763,529	78.990
B-04-D	890,509,803	463,788,278	79.648
B-05-I	890,803,888	463,863,593	80.110
B-05-D	890,508,869	463,888,299	79.452
B-06-I	890,821,747	463,474,651	81.790
B-06-D	890,499,126	463,557,777	79.626
B-07-I	890,976,577	462,937,803	78.490
B-07-D	890,472,573	463,935,435	79.617
B-08-B	890,655,240	462,516,470	79.956
B-08-A	890,324,456	462,549,505	79.778
B-08-D	891,087,992	462,515,014	79.170
B-08-C	890,894,895	462,407,431	78.698
B-09-B	890,486,824	461,953,369	79.644
B-09-A	890,289,107	461,991,521	79.378
B-09-D	891,288,307	462,957,173	79.260
B-09-C	891,036,454	462,937,178	78.072
B-10-B	890,550,381	461,437,845	78.306
B-10-A	890,307,172	461,538,415	79.410
B-10-D	891,370,913	461,519,412	79.658
B-10-C	891,246,587	461,499,155	78.830
B-11-B	890,596,922	460,828,039	79.312
B-11-A	890,347,151	460,788,706	79.459
B-11-D	891,387,219	460,881,585	79.373
B-11-C	891,201,295	461,818,466	79.352
B-12-B	890,817,879	460,416,789	78.231
B-12-A	890,385,947	460,378,909	79.300
B-12-D	891,391,588	460,383,554	79.440
B-12-C	891,061,488	460,823,831	78.721
B-13-I	890,958,857	460,018,729	79.954
B-13-D	890,377,425	460,148,242	78.600
B-14-D	890,784,787	459,313,503	79.180
B-14-C	890,347,739	459,319,611	79.390



THE REPUBLIC OF VENEZUELA
STUDY ON COMPREHENSIVE IMPROVEMENT
OF THE APURE RIVER BASIN

LOCATION MAP
OF CROSS SECTION

BRUZUAL 21/23

PLAN NO.	113	SCALE	1:20,000
SURVEY DATE	JANUARY-MARCH 1993		

JICA
JAPAN INTERNATIONAL
COOPERATION AGENCY

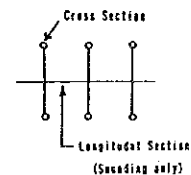
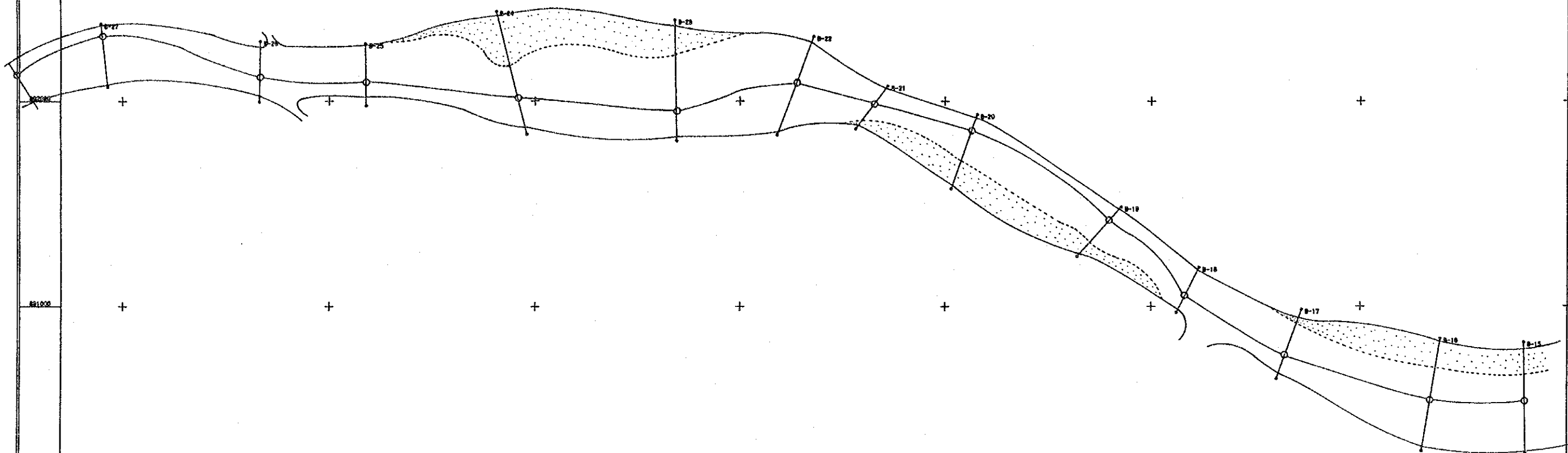
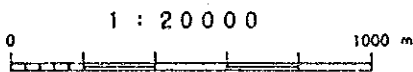


Table 2 Result of control point survey Bruzual (2)
Feb. 1993

Station	Northing	Easting	Elevat.
B-15-D	890.427.480	458.783.716	79.820
B-15-C	890.279.293	458.798.959	78.708
B-16-D	890.342.327	458.380.877	79.810
B-16-C	890.293.290	458.292.346	80.113
B-17-D	890.284.499	457.715.142	80.310
B-17-C	890.646.594	457.595.187	80.257
B-18-D	891.169.530	457.228.457	80.810
B-18-C	890.379.301	457.120.892	79.418
B-19-D	891.484.244	456.355.093	80.750
B-19-C	891.243.146	456.641.868	79.860
B-20-D	891.934.678	456.158.796	80.440
B-20-C	891.573.191	456.029.719	80.220
B-21-D	892.073.862	455.723.903	80.920
B-21-C	891.865.149	455.567.674	80.318
B-22-D	892.312.948	455.363.326	80.762
B-22-C	891.835.180	455.181.097	80.043
B-23-D	892.394.740	454.881.553	79.340
B-23-C	891.807.096	454.822.009	80.678
B-24-D	892.435.765	453.808.800	81.040
B-24-C	891.838.383	453.960.348	80.834
B-25-D	892.278.677	453.175.369	81.130
B-25-C	891.977.962	453.179.065	80.990
B-26-D	892.492.583	452.664.249	81.105
B-26-C	891.996.981	452.660.246	80.984
B-27-D	892.376.112	451.892.233	80.839
B-27-C	892.063.735	451.925.229	80.870



THE REPUBLIC OF VENEZUELA
STUDY ON COMPREHENSIVE IMPROVEMENT
OF THE APURE RIVER BASIN

LOCATION MAP
OF CROSS SECTION

BRUZUAL 22/23

PLAN NO. 114 SCALE 1:20,000

SURVEY DATE JANUARY-MARCH 1993

JICA JAPAN INTERNATIONAL
COOPERATION AGENCY

THE REPUBLIC OF VENEZUELA
 STUDY ON COMPREHENSIVE IMPROVEMENT
 OF THE APURE RIVER BASIN

LOCATION MAP
 OF CROSS SECTION

BRUZUAL 23/73

PLAN NO. 115 SCALE 1:20,000

SURVEY DATE JANUARY-MARCH 1993

JICA
 JAPAN INTERNATIONAL
 COOPERATION AGENCY

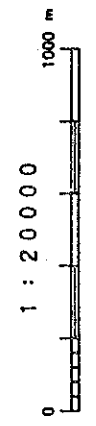
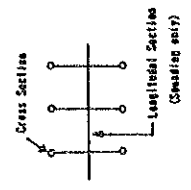
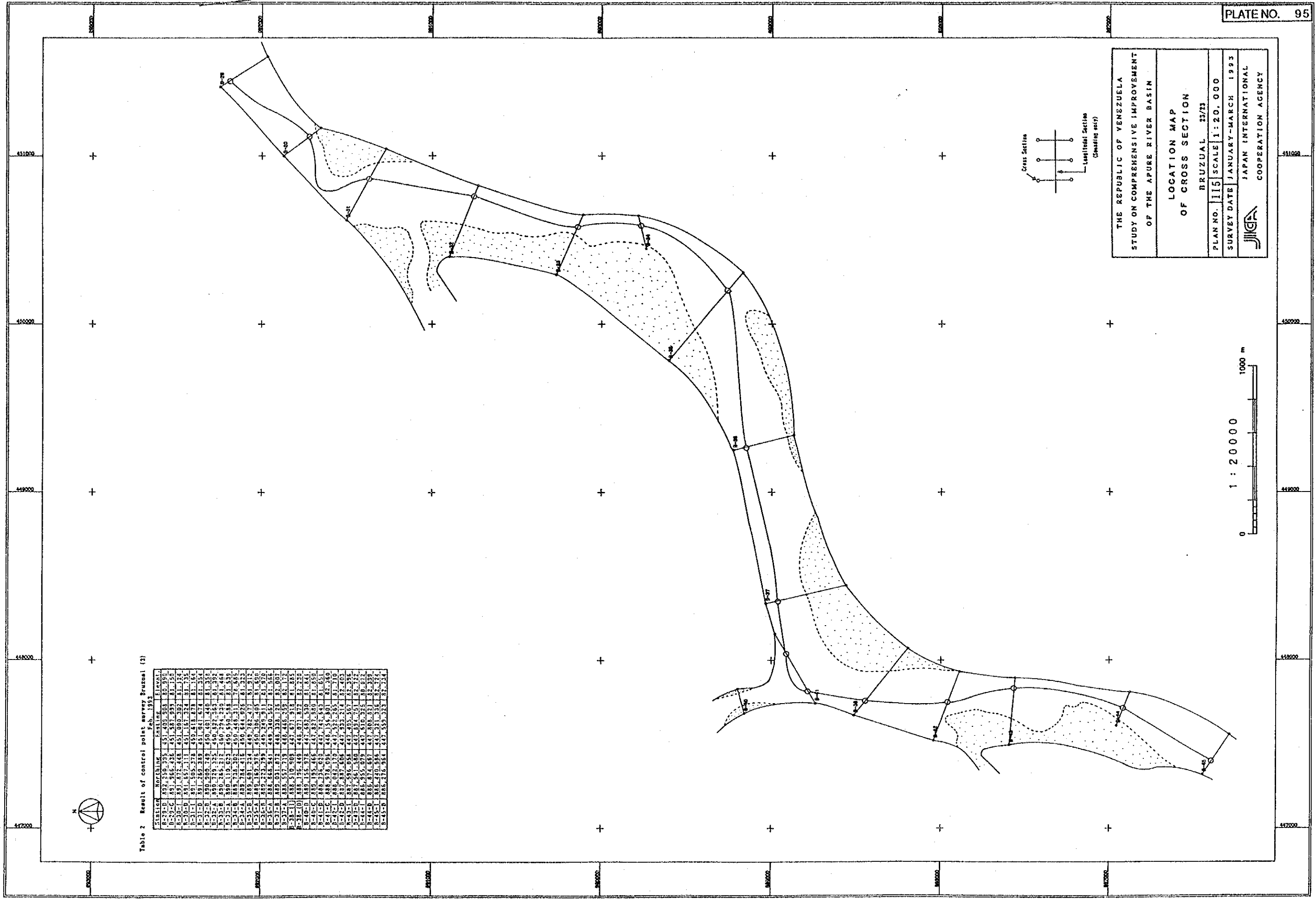
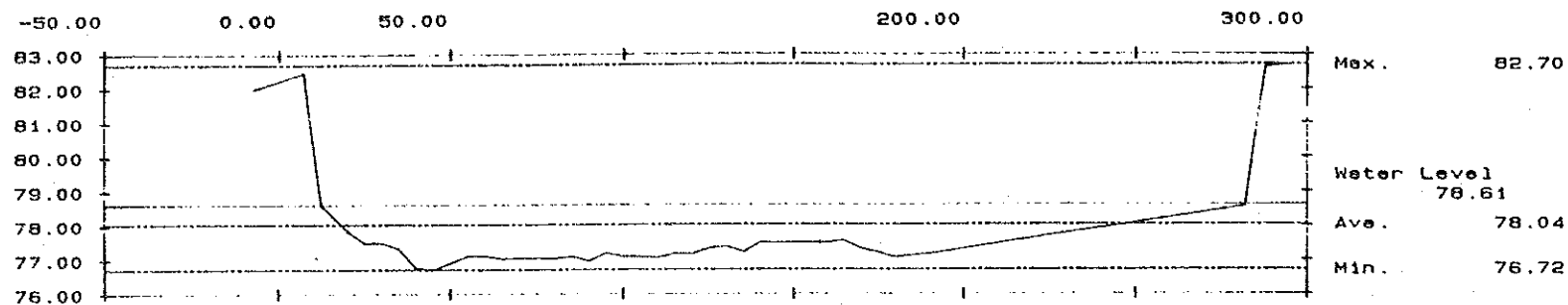


Table 2 Result of control point survey Bruzual (2)
 Feb. 1993

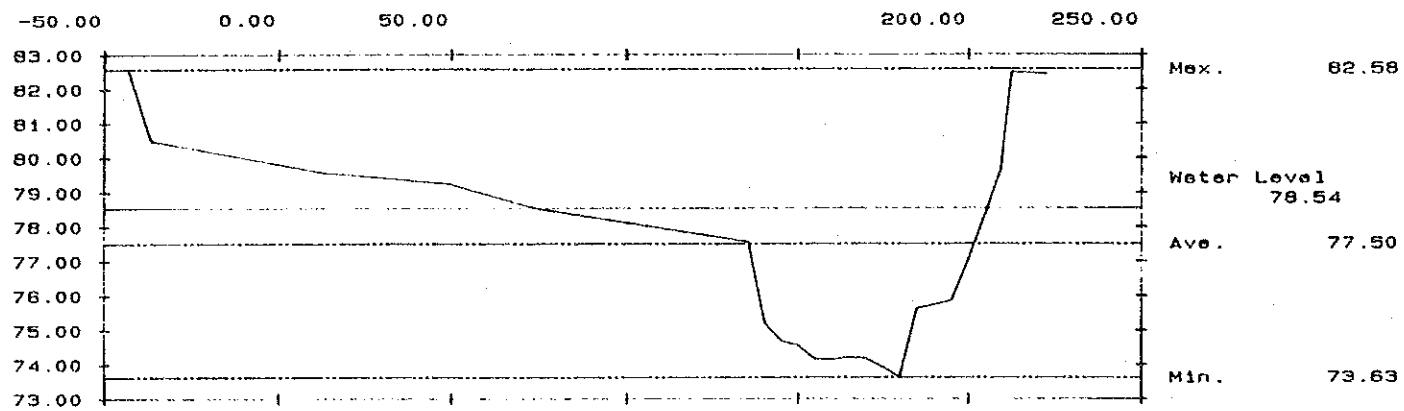
STATION	NORTHING	EASTING	ELEVATION
B-30-1	831.852	451.000	81.24
B-30-2	831.852	451.000	81.24
B-30-3	831.852	451.000	81.24
B-30-4	831.852	451.000	81.24
B-30-5	831.852	451.000	81.24
B-30-6	831.852	451.000	81.24
B-30-7	831.852	451.000	81.24
B-30-8	831.852	451.000	81.24
B-30-9	831.852	451.000	81.24
B-30-10	831.852	451.000	81.24
B-30-11	831.852	451.000	81.24
B-30-12	831.852	451.000	81.24
B-30-13	831.852	451.000	81.24
B-30-14	831.852	451.000	81.24
B-30-15	831.852	451.000	81.24
B-30-16	831.852	451.000	81.24
B-30-17	831.852	451.000	81.24
B-30-18	831.852	451.000	81.24
B-30-19	831.852	451.000	81.24
B-30-20	831.852	451.000	81.24
B-30-21	831.852	451.000	81.24
B-30-22	831.852	451.000	81.24
B-30-23	831.852	451.000	81.24
B-30-24	831.852	451.000	81.24
B-30-25	831.852	451.000	81.24
B-30-26	831.852	451.000	81.24
B-30-27	831.852	451.000	81.24
B-30-28	831.852	451.000	81.24
B-30-29	831.852	451.000	81.24
B-30-30	831.852	451.000	81.24
B-30-31	831.852	451.000	81.24
B-30-32	831.852	451.000	81.24
B-30-33	831.852	451.000	81.24
B-30-34	831.852	451.000	81.24
B-30-35	831.852	451.000	81.24
B-30-36	831.852	451.000	81.24
B-30-37	831.852	451.000	81.24
B-30-38	831.852	451.000	81.24
B-30-39	831.852	451.000	81.24
B-30-40	831.852	451.000	81.24
B-30-41	831.852	451.000	81.24
B-30-42	831.852	451.000	81.24
B-30-43	831.852	451.000	81.24
B-30-44	831.852	451.000	81.24
B-30-45	831.852	451.000	81.24
B-30-46	831.852	451.000	81.24
B-30-47	831.852	451.000	81.24
B-30-48	831.852	451.000	81.24
B-30-49	831.852	451.000	81.24
B-30-50	831.852	451.000	81.24
B-30-51	831.852	451.000	81.24
B-30-52	831.852	451.000	81.24
B-30-53	831.852	451.000	81.24
B-30-54	831.852	451.000	81.24
B-30-55	831.852	451.000	81.24
B-30-56	831.852	451.000	81.24
B-30-57	831.852	451.000	81.24
B-30-58	831.852	451.000	81.24
B-30-59	831.852	451.000	81.24
B-30-60	831.852	451.000	81.24
B-30-61	831.852	451.000	81.24
B-30-62	831.852	451.000	81.24
B-30-63	831.852	451.000	81.24
B-30-64	831.852	451.000	81.24
B-30-65	831.852	451.000	81.24
B-30-66	831.852	451.000	81.24
B-30-67	831.852	451.000	81.24
B-30-68	831.852	451.000	81.24
B-30-69	831.852	451.000	81.24
B-30-70	831.852	451.000	81.24
B-30-71	831.852	451.000	81.24
B-30-72	831.852	451.000	81.24
B-30-73	831.852	451.000	81.24
B-30-74	831.852	451.000	81.24
B-30-75	831.852	451.000	81.24
B-30-76	831.852	451.000	81.24
B-30-77	831.852	451.000	81.24
B-30-78	831.852	451.000	81.24
B-30-79	831.852	451.000	81.24
B-30-80	831.852	451.000	81.24
B-30-81	831.852	451.000	81.24
B-30-82	831.852	451.000	81.24
B-30-83	831.852	451.000	81.24
B-30-84	831.852	451.000	81.24
B-30-85	831.852	451.000	81.24
B-30-86	831.852	451.000	81.24
B-30-87	831.852	451.000	81.24
B-30-88	831.852	451.000	81.24
B-30-89	831.852	451.000	81.24
B-30-90	831.852	451.000	81.24
B-30-91	831.852	451.000	81.24
B-30-92	831.852	451.000	81.24
B-30-93	831.852	451.000	81.24
B-30-94	831.852	451.000	81.24
B-30-95	831.852	451.000	81.24
B-30-96	831.852	451.000	81.24
B-30-97	831.852	451.000	81.24
B-30-98	831.852	451.000	81.24
B-30-99	831.852	451.000	81.24
B-30-100	831.852	451.000	81.24




SECTION 45

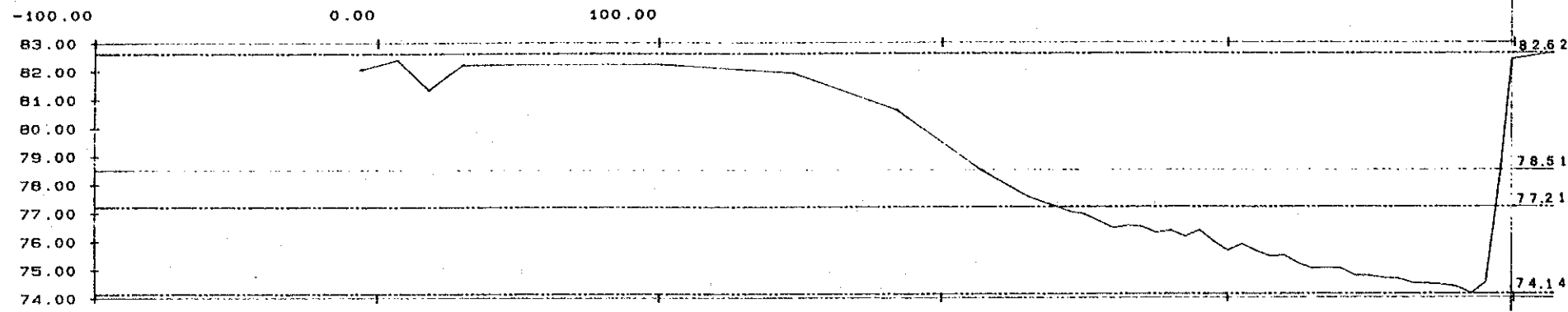


SECTION 44

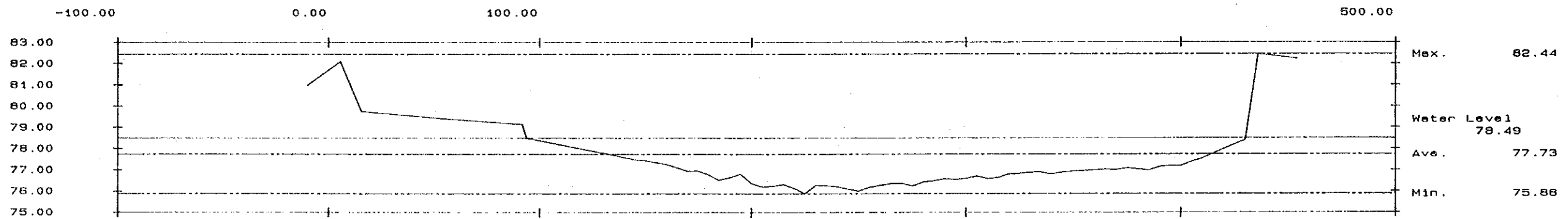



THE REPUBLIC OF VENEZUELA	
STUDY ON COMPREHENSIVE IMPROVEMENT	
OF THE APURE RIVER BASIN	
CROSS SECTION	
BRUZUAL 1/23	
PLAN NO. 93	SCALE H:1:1000 V:1:100
SURVEY DATE	JANUARY-MARCH 1993
	JAPAN INTERNATIONAL COOPERATION AGENCY

SECTION 43

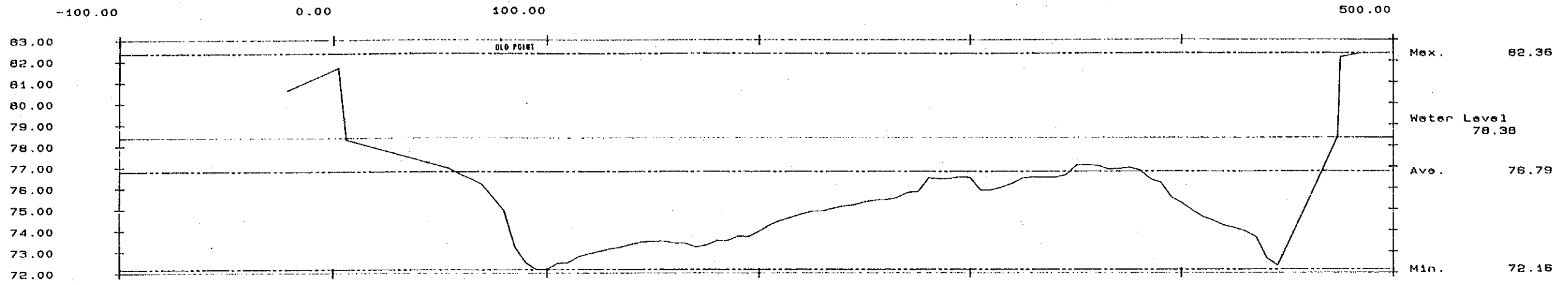


SECTION 42

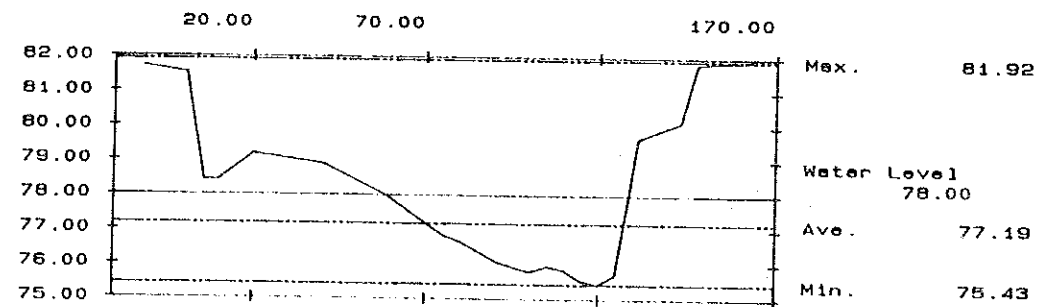



THE REPUBLIC OF VENEZUELA	
STUDY ON COMPREHENSIVE IMPROVEMENT	
OF THE APURE RIVER BASIN	
CROSS SECTION	
BRUZUAL 2/23	
PLAN NO.	94
SCALE	H:1:1000 V:1:100
SURVEY DATE	JANUARY-MARCH 1993
 JAPAN INTERNATIONAL COOPERATION AGENCY	

SECTION 41

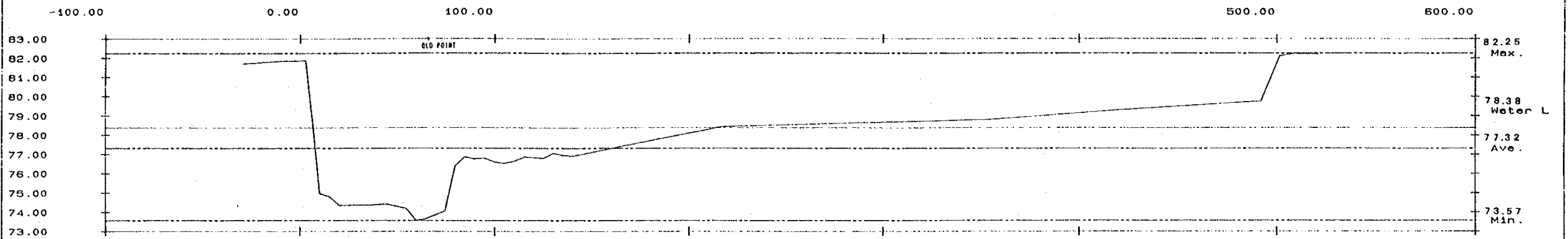


SECTION 40

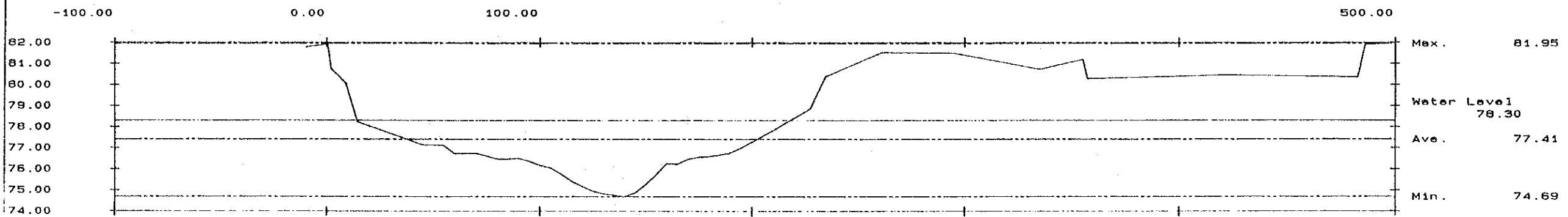


THE REPUBLIC OF VENEZUELA	
STUDY ON COMPREHENSIVE IMPROVEMENT	
OF THE APURE RIVER BASIN	
CROSS SECTION	
BRUZUAL 3/23	
PLAN NO. 95	SCALE H:1:1000 V:1:100
SURVEY DATE JANUARY-MARCH 1993	
	JAPAN INTERNATIONAL COOPERATION AGENCY

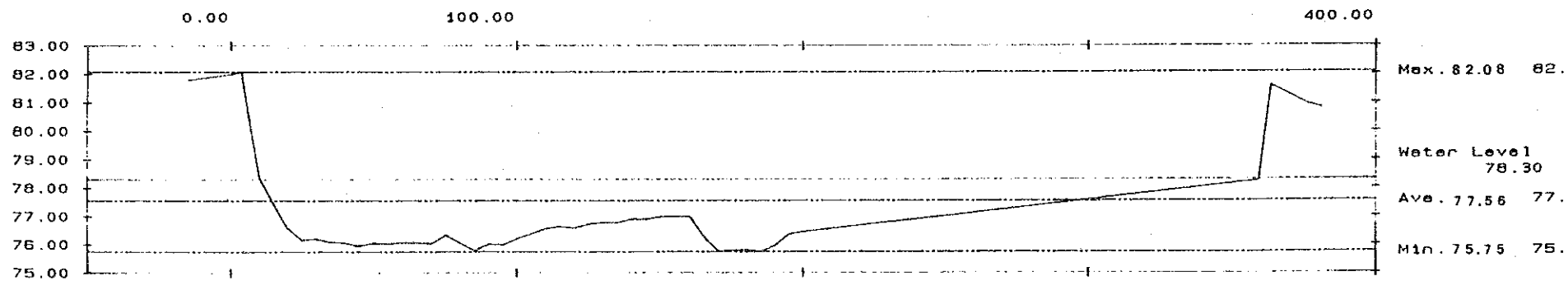
SECTION 38 (RIGHT)



SECTION 37 (RIGHT)

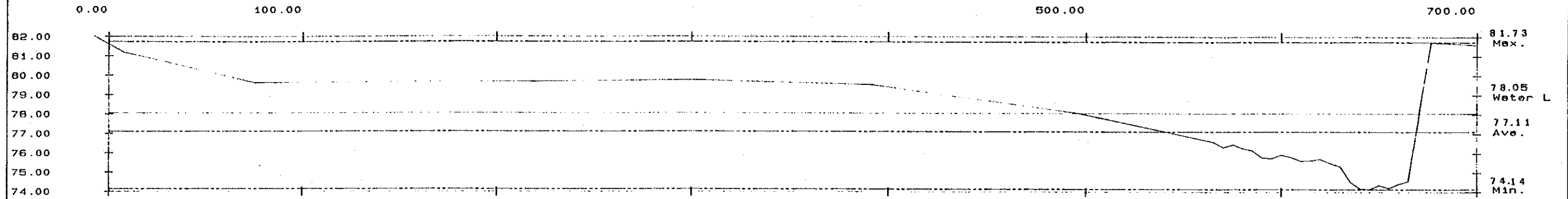


SECTION 36 (RIGHT)

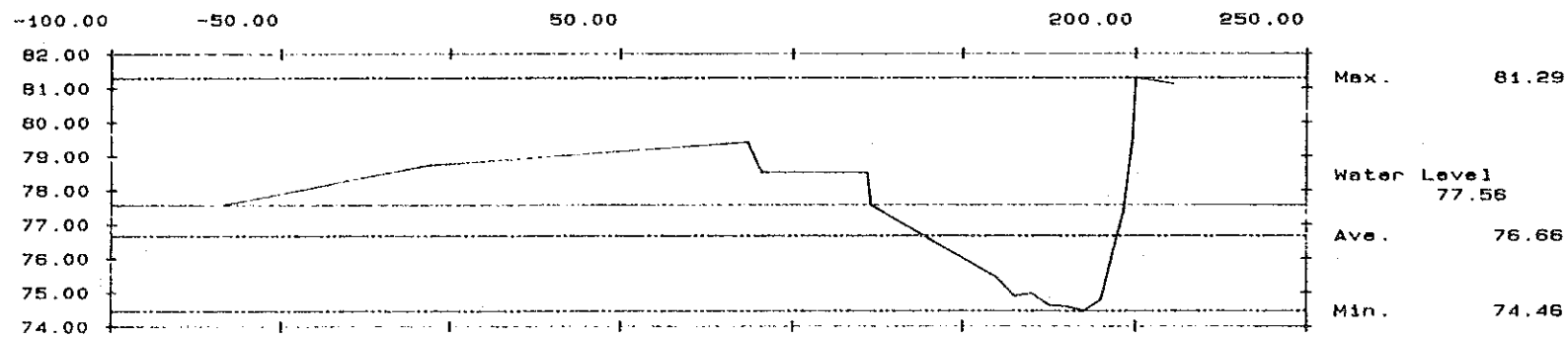


THE REPUBLIC OF VENEZUELA			
STUDY ON COMPREHENSIVE IMPROVEMENT			
OF THE APURE RIVER BASIN			
CROSS SECTION			
BRUZUAL 4/23			
PLAN NO.	96	SCALE	H-1:1000 V-1:100
SURVEY DATE	JANUARY-MARCH 1993		
JICA		JAPAN INTERNATIONAL	
COOPERATION AGENCY			

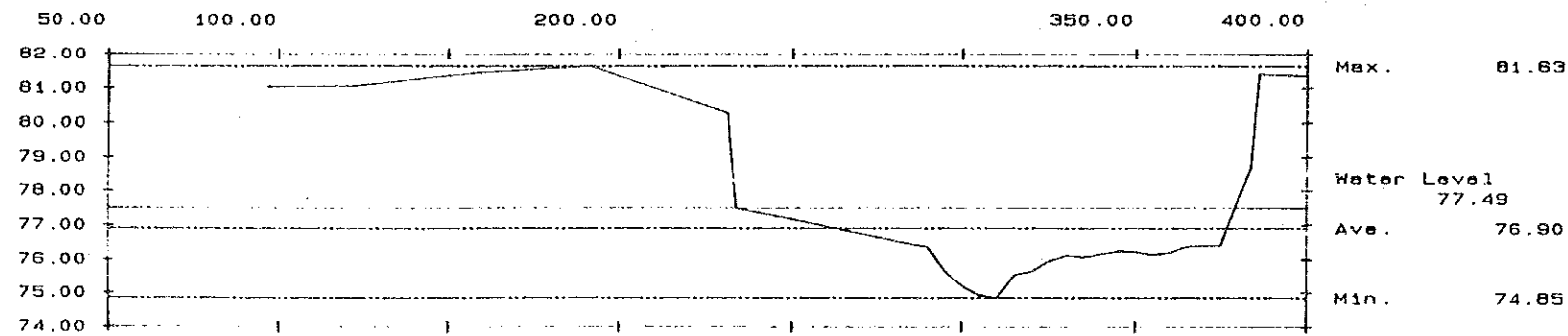
SECTION 35 (RIGHT)



SECTION 34 (RIGHT)

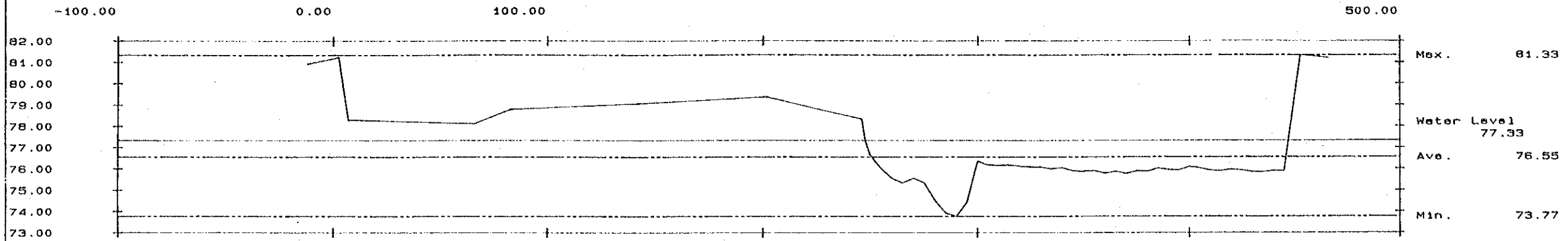


SECTION 33 (RIGHT)

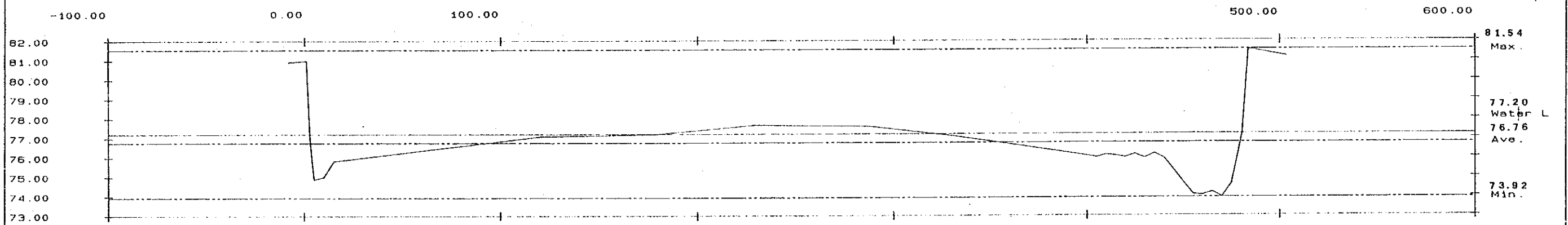


THE REPUBLIC OF VENEZUELA	
STUDY ON COMPREHENSIVE IMPROVEMENT	
OF THE APURE RIVER BASIN	
CROSS SECTION	
BRUZUAL 5/23	
PLAN NO. 97	SCALE H:1:1000 V:1:100
SURVEY DATE	JANUARY MARCH 1993
JICA	JAPAN INTERNATIONAL COOPERATION AGENCY

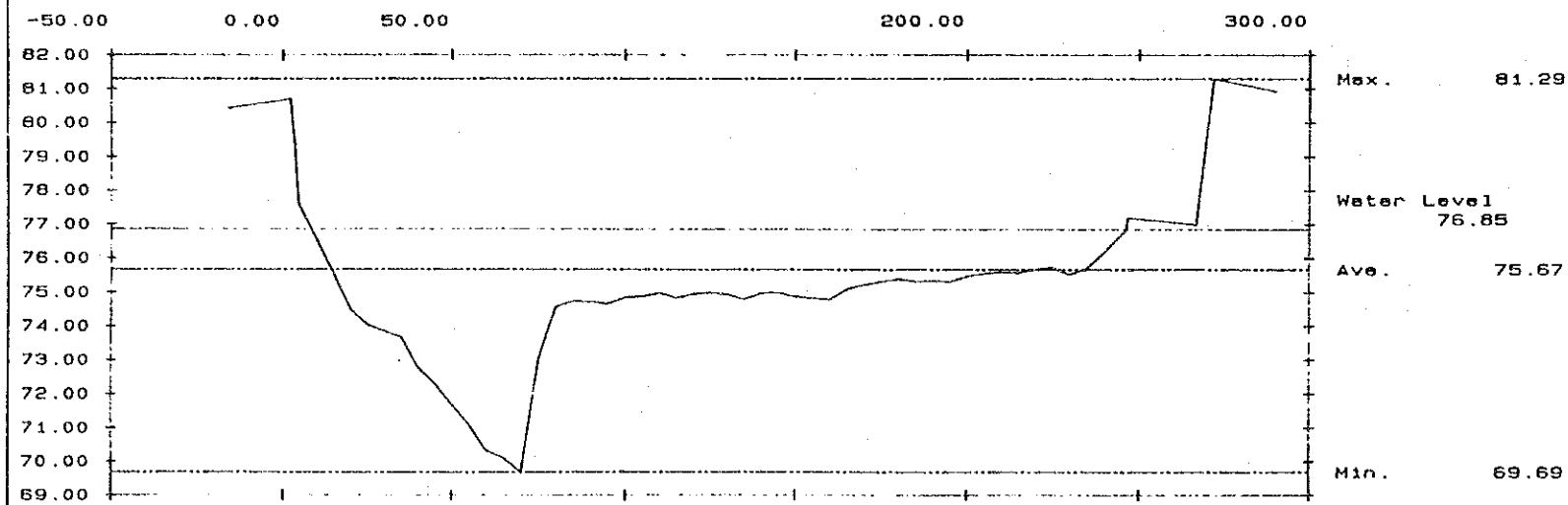
SECTION 32



SECTION 31

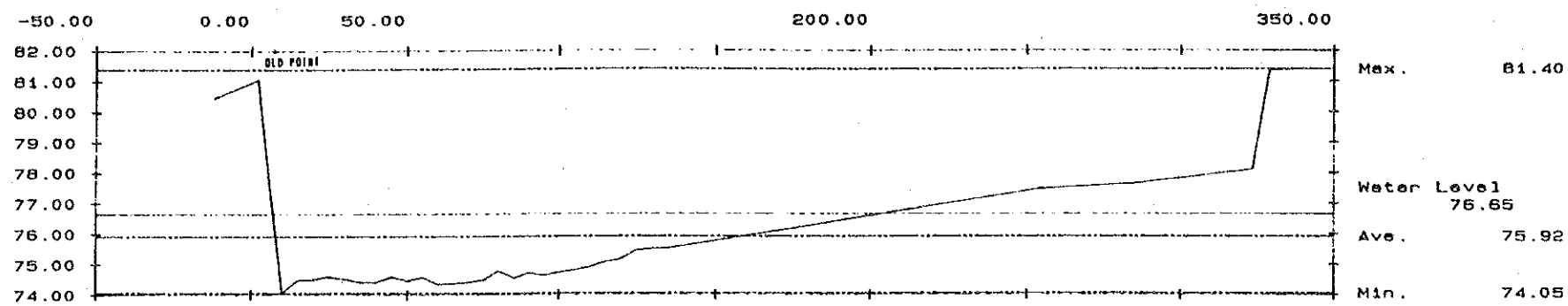


SECTION 30

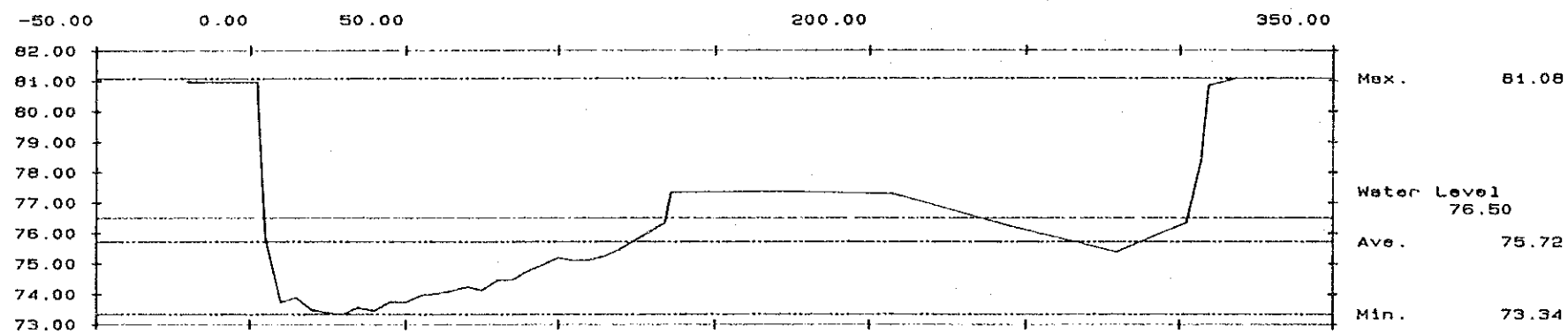


THE REPUBLIC OF VENEZUELA	
STUDY ON COMPREHENSIVE IMPROVEMENT	
OF THE APURE RIVER BASIN	
CROSS SECTION	
BRUZUAL 4/13	
PLAN NO. 98	SCALE H:1:1000 V:1:100
SURVEY DATE JANUARY MARCH 1993	
JICA	JAPAN INTERNATIONAL COOPERATION AGENCY

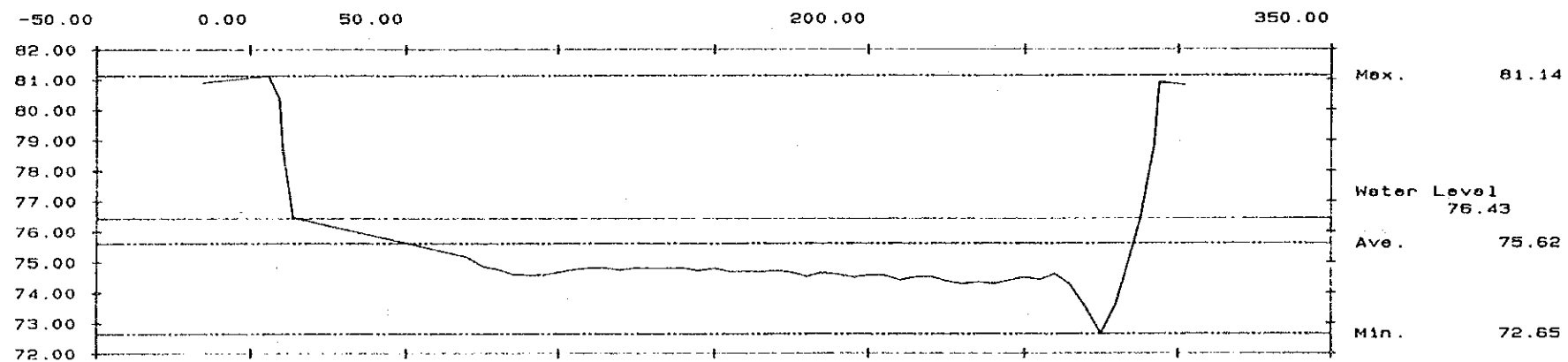
SECTION 29



SECTION 27

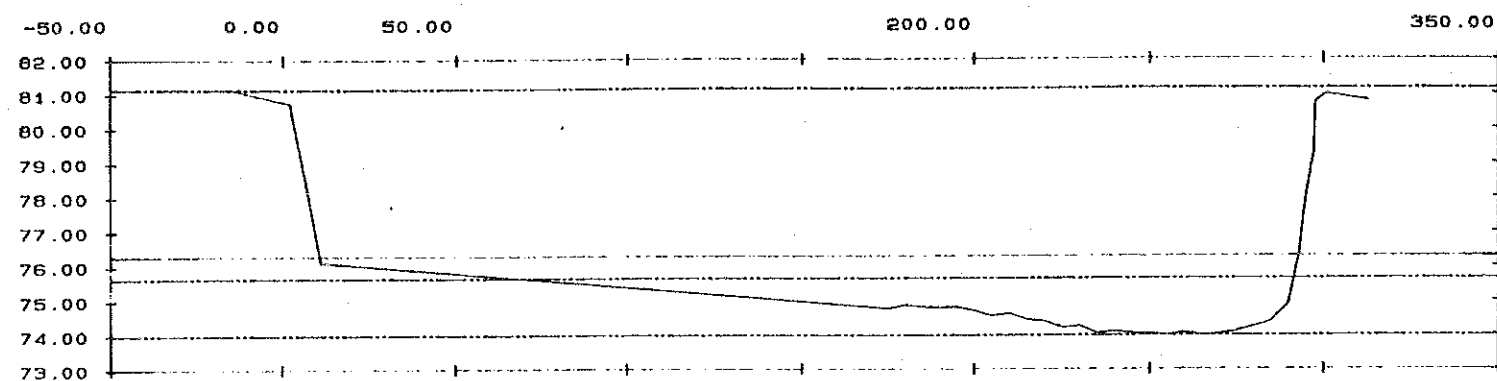


SECTION 26



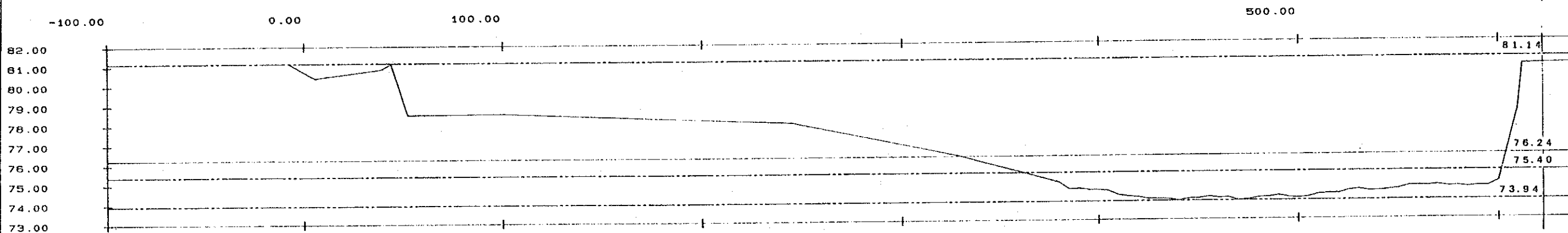
THE REPUBLIC OF VENEZUELA	
STUDY ON COMPREHENSIVE IMPROVEMENT	
OF THE APURE RIVER BASIN	
CROSS SECTION	
BRUZUAL 1/23	
PLAN NO. 99	SCALE H:1:1000 V:1:100
SURVEY DATE	JANUARY-MARCH 1993
JICA	JAPAN INTERNATIONAL COOPERATION AGENCY

SECTION 25 (LEFT)



Max. 81.14
 Water Level 76.28
 Ave. 75.64
 Min. 73.99

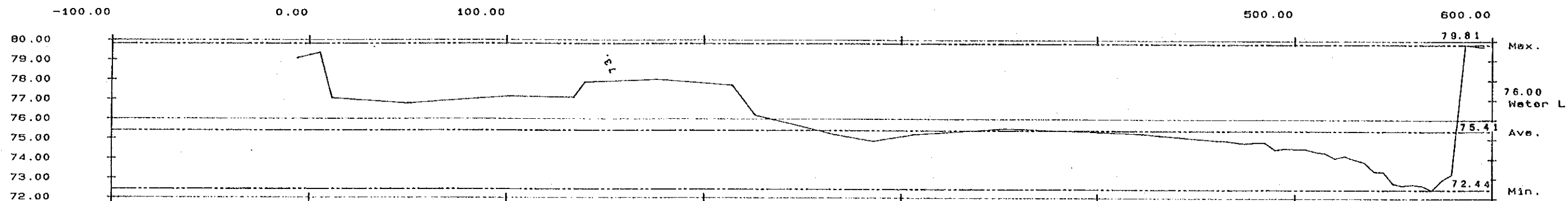
SECTION 24 (LEFT)



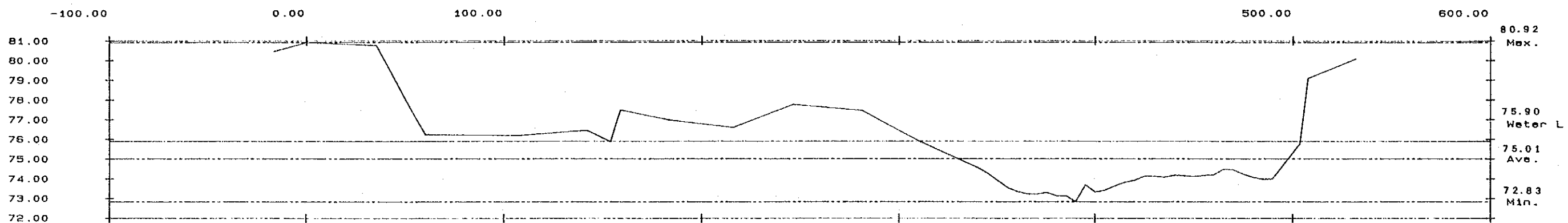
81.14
 76.24
 75.40
 73.94

THE REPUBLIC OF VENEZUELA	
STUDY ON COMPREHENSIVE IMPROVEMENT	
OF THE APURE RIVER BASIN	
CROSS SECTION	
BRUZUAL, 8/23	
PLAN NO. 100	SCALE H:1:1000 V:1:100
SURVEY DATE	JANUARY MARCH 1993
JICA	JAPAN INTERNATIONAL COOPERATION AGENCY

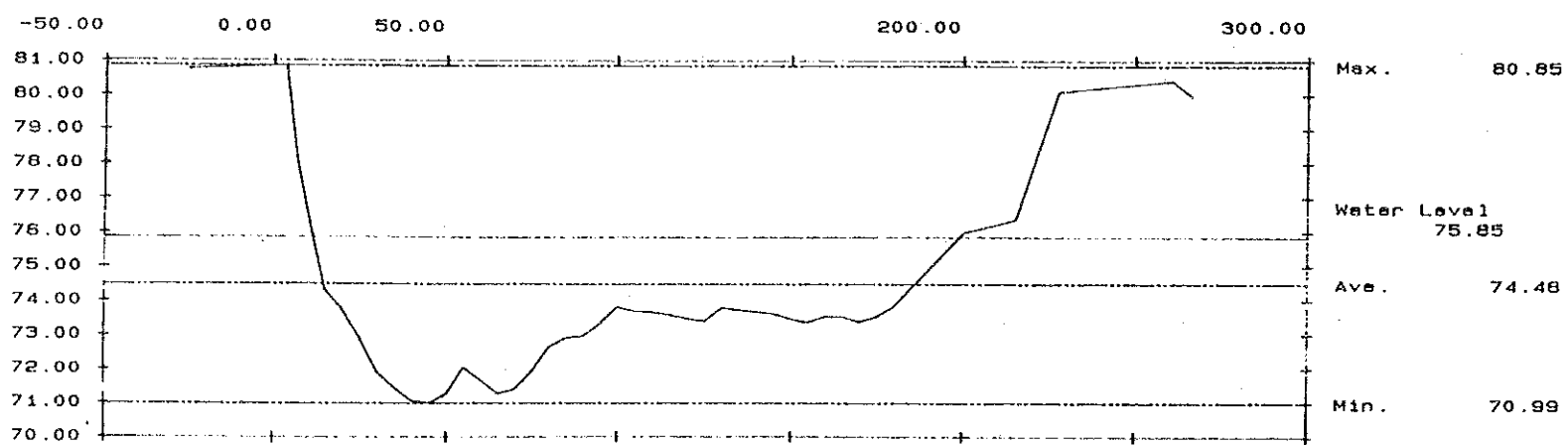
SECTION 23 (LEFT)



SECTION 22 (LEFT)

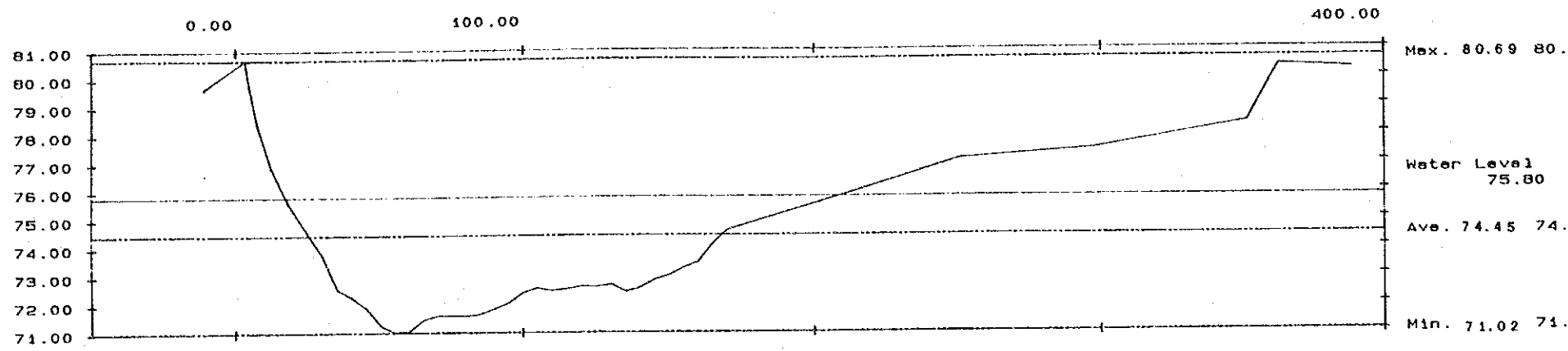


SECTION 21 (LEFT)

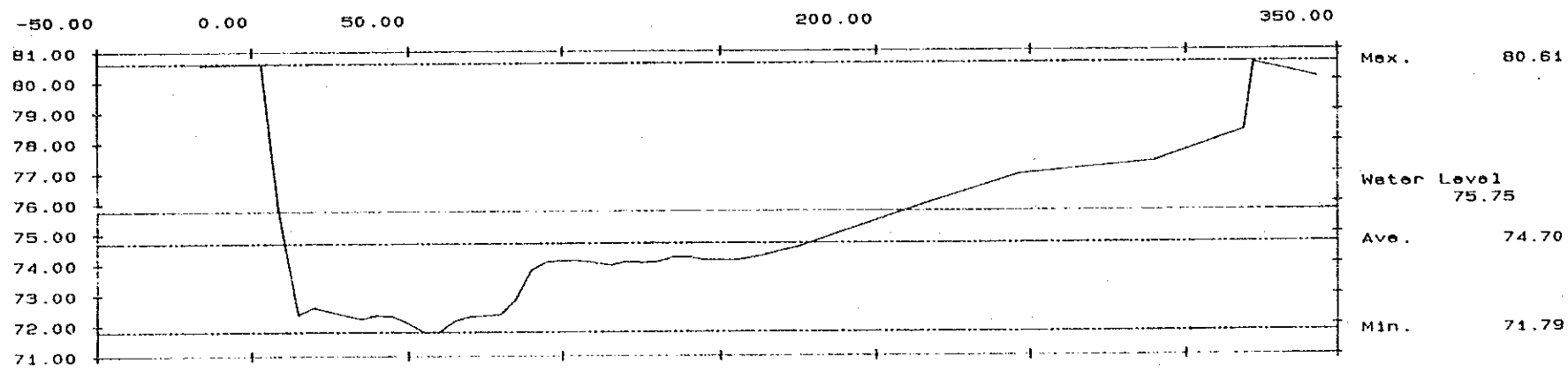


THE REPUBLIC OF VENEZUELA	
STUDY ON COMPREHENSIVE IMPROVEMENT	
OF THE APURE RIVER BASIN	
CROSS SECTION	
BRUZUAL 9/23	
PLAN NO.	101 SCALE H:1:1000 V:1:100
SURVEY DATE	JANUARY MARCH 1993
JICA JAPAN INTERNATIONAL COOPERATION AGENCY	

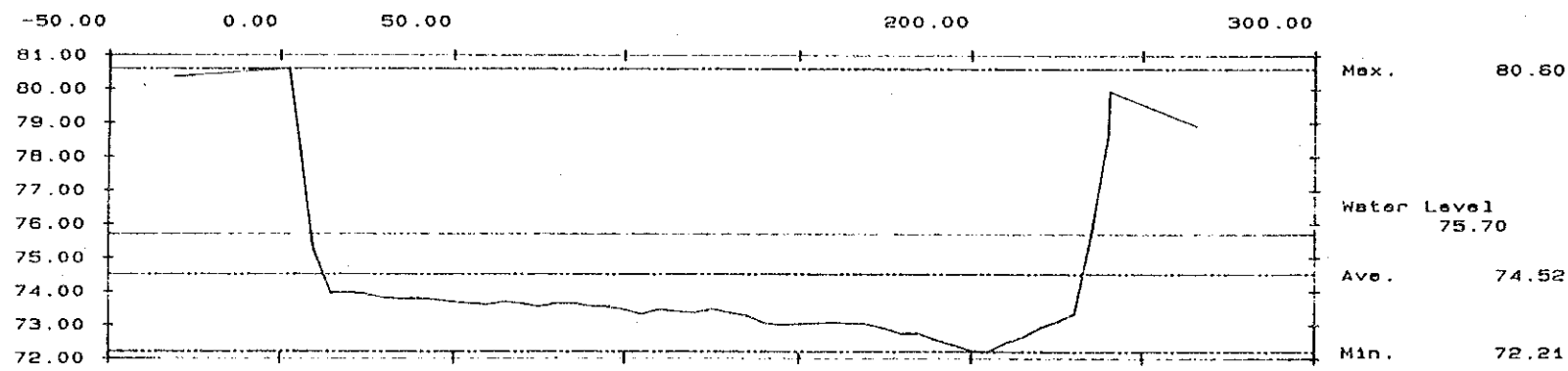
SECTION 20 (LEFT)



SECTION 19 (LEFT)

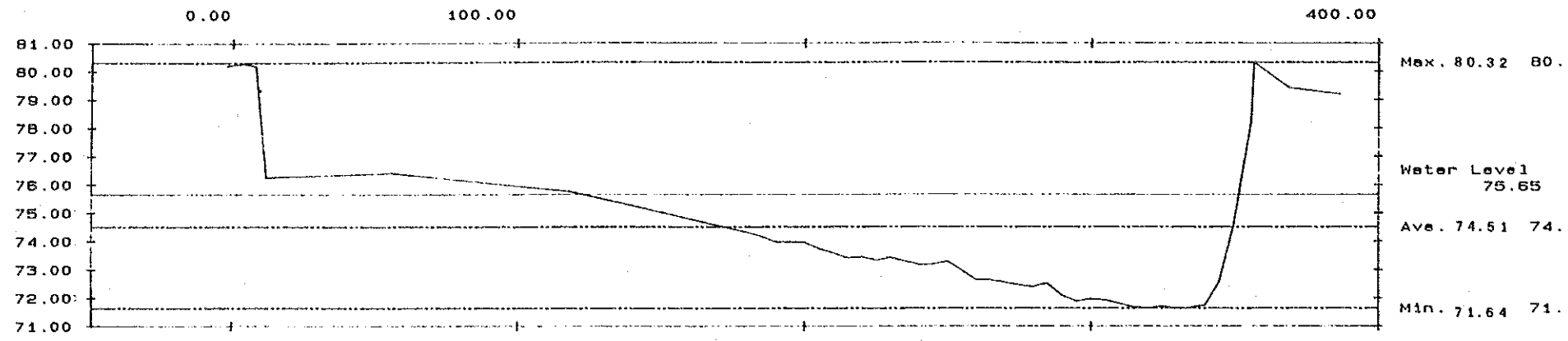


SECTION 18 (LEFT)

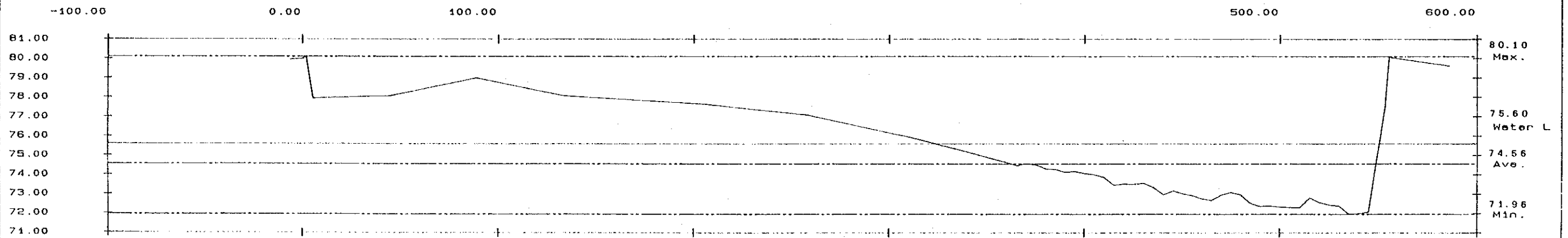



THE REPUBLIC OF VENEZUELA	
STUDY ON COMPREHENSIVE IMPROVEMENT	
OF THE APURE RIVER BASIN	
CROSS SECTION	
BRUZUAL 10/23	
PLAN NO. 102	SCALE H:1:1000 V:1:100
SURVEY DATE	JANUARY-MARCH 1993
JICA	JAPAN INTERNATIONAL COOPERATION AGENCY

SECTION 17 (LEFT)

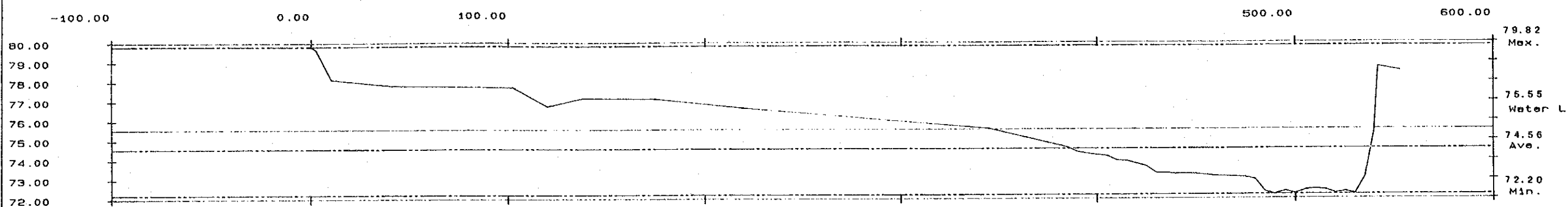


SECTION 16 (LEFT)

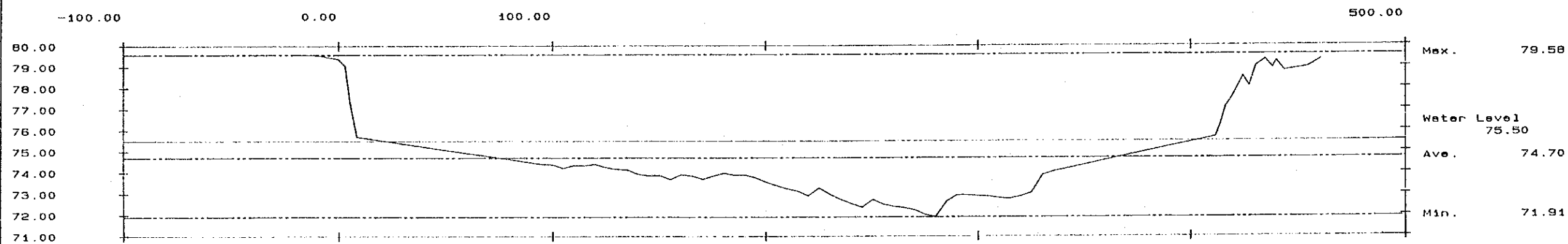


THE REPUBLIC OF VENEZUELA	
STUDY ON COMPREHENSIVE IMPROVEMENT OF THE APURE RIVER BASIN	
CROSS SECTION	
BRUZUAL 11/23	
PLAN NO. 103	SCALE H:1:1000 V:1:100
SURVEY DATE	JANUARY-MARCH 1993
 JAPAN INTERNATIONAL COOPERATION AGENCY	

SECTION 15 (LEFT)

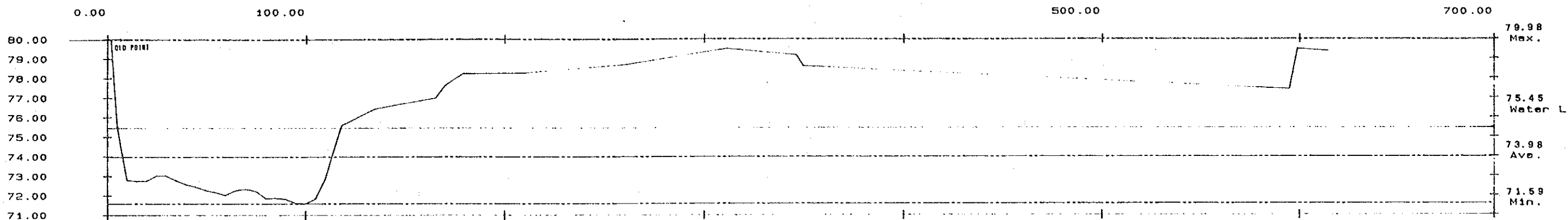


SECTION 14 (LEFT)

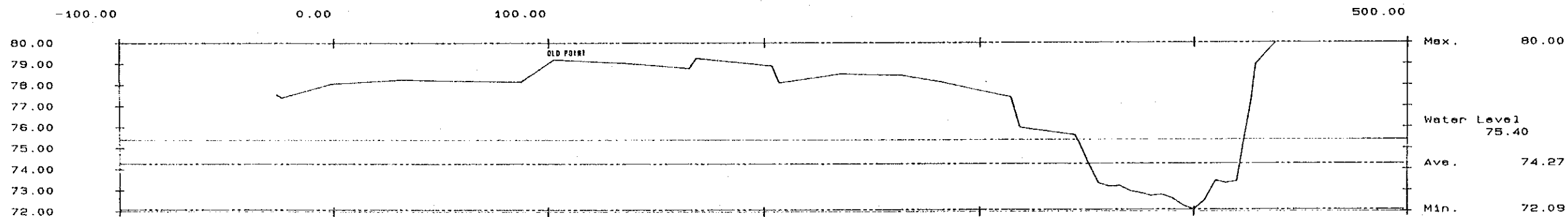


THE REPUBLIC OF VENEZUELA			
STUDY ON COMPREHENSIVE IMPROVEMENT			
OF THE APURE RIVER BASIN			
CROSS SECTION			
BRUZUAL 12/23			
PLAN NO.	104	SCALE	H:1:1000 V:1:100
SURVEY DATE	JANUARY MARCH 1993		
JICA		JAPAN INTERNATIONAL	
COOPERATION AGENCY			

SECTION 13 (LEFT)

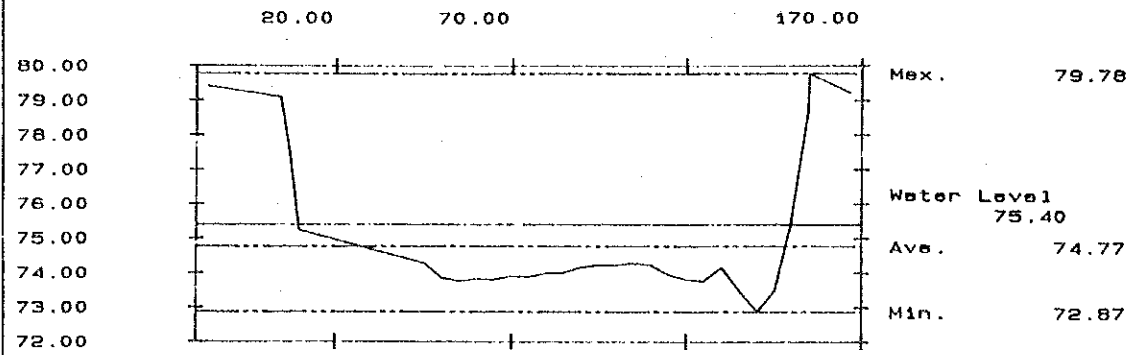


SECTION 12

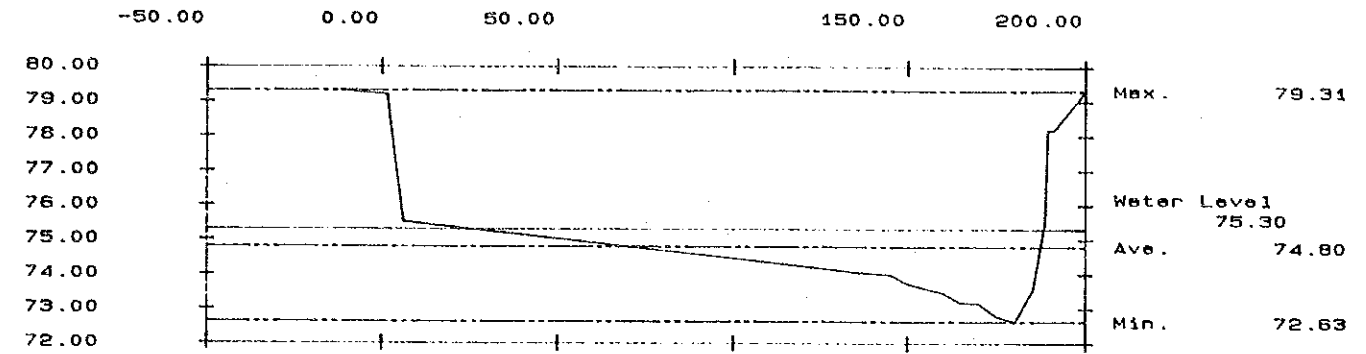


THE REPUBLIC OF VENEZUELA			
STUDY ON COMPREHENSIVE IMPROVEMENT			
OF THE APURE RIVER BASIN			
CROSS SECTION			
BRUZUAL 13/23			
PLAN NO.	105	SCALE	H:1:1000 V:1:100
SURVEY DATE	JANUARY - MARCH 1993		
JICA		JAPAN INTERNATIONAL	
COOPERATION AGENCY			

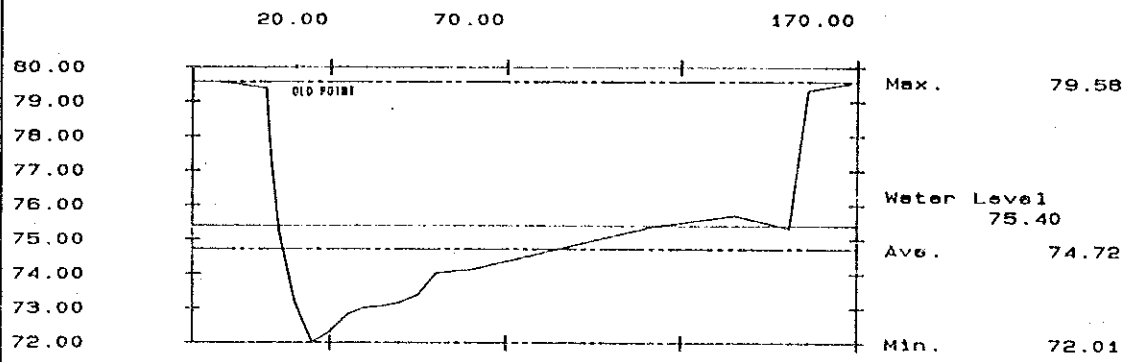
SECTION 12 (LEFT)



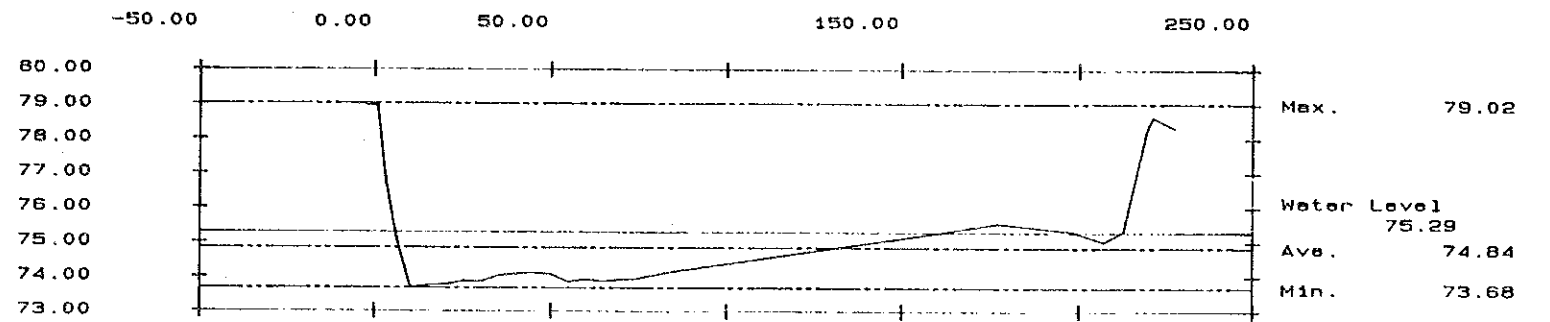
SECTION 9 (LEFT)



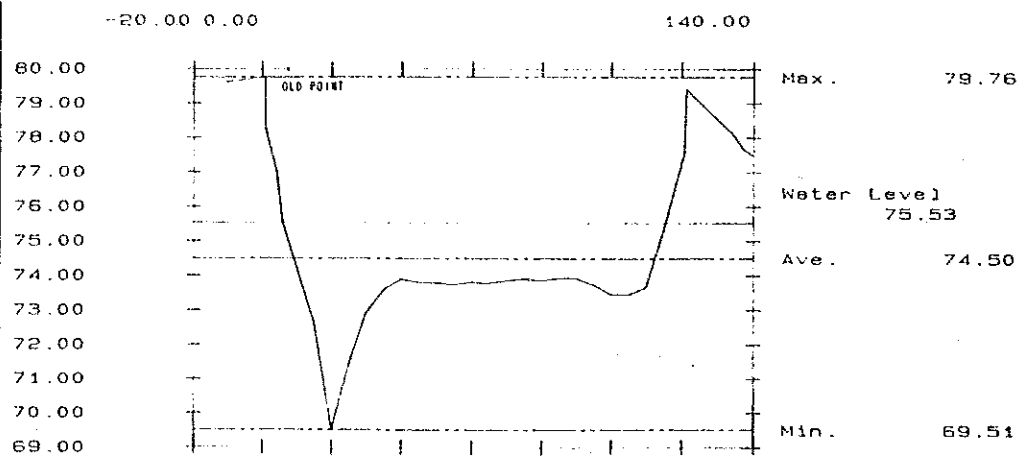
SECTION 11 (LEFT)



SECTION 8 (LEFT)

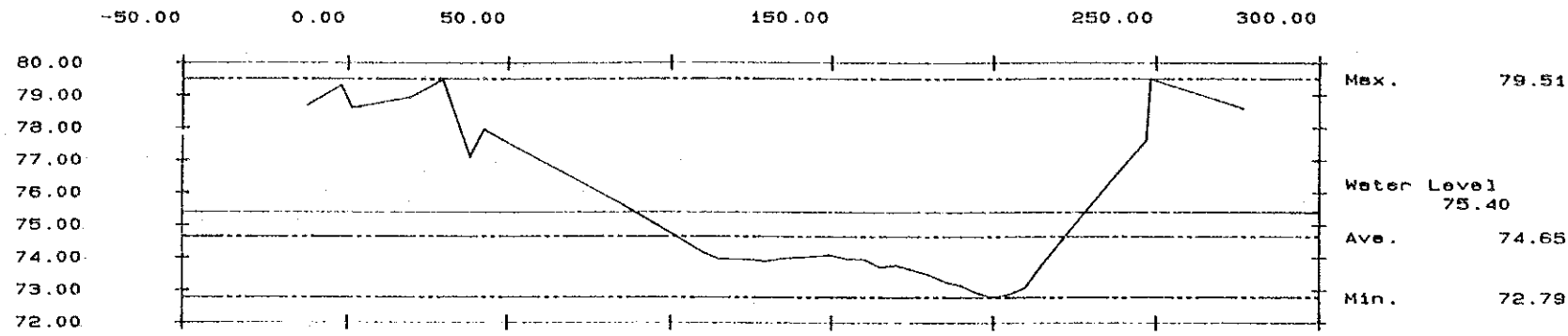


SECTION 10 (LEFT)

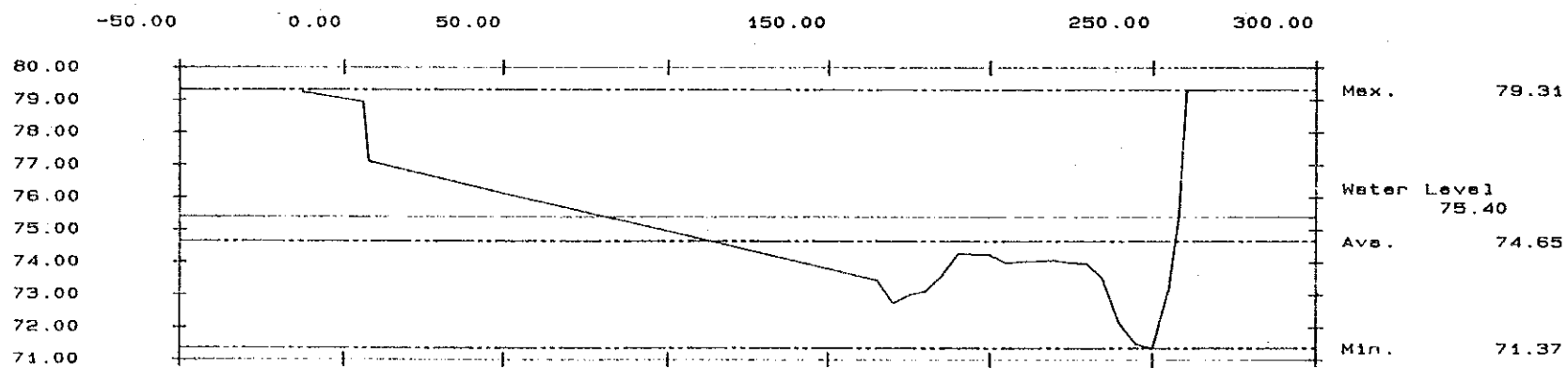


THE REPUBLIC OF VENEZUELA	
STUDY ON COMPREHENSIVE IMPROVEMENT	
OF THE APURE RIVER BASIN	
CROSS SECTION	
BRUZUAL 14/23	
PLAN NO. 106	SCALE H:1:1000 V:1:100
SURVEY DATE	JANUARY-MARCH 1993
JICA	JAPAN INTERNATIONAL
	COOPERATION AGENCY

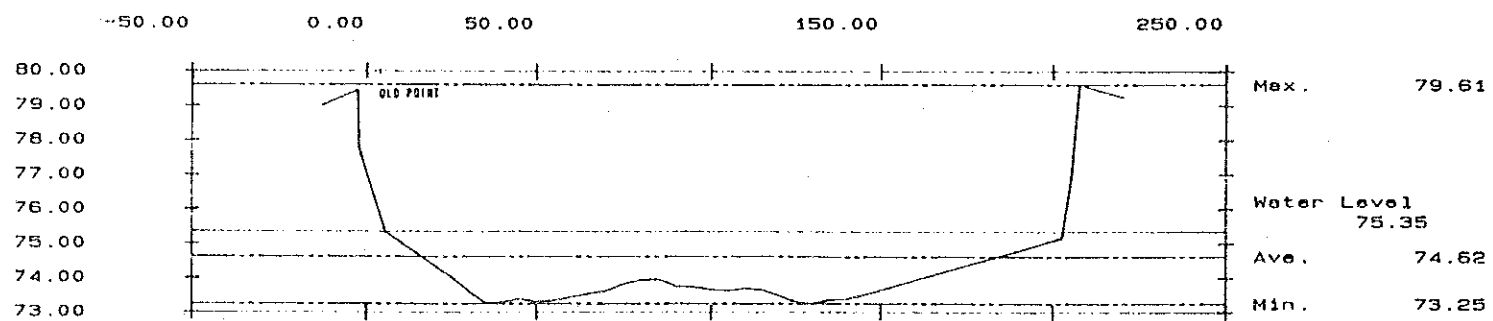
SECTION 11 (RIGHT)



SECTION 10 (RIGHT)

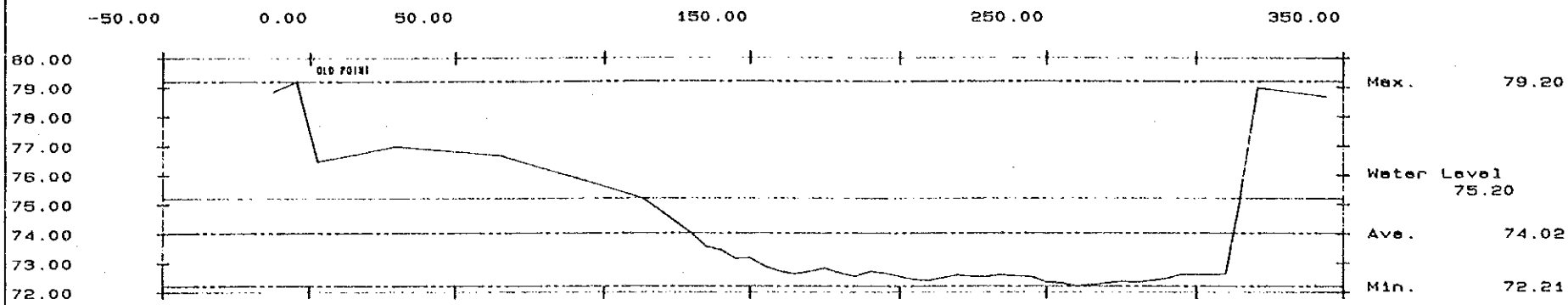


SECTION 9 (RIGHT)

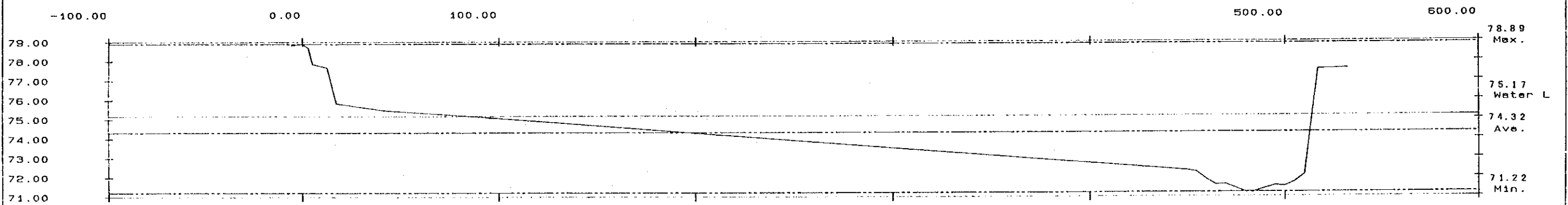


THE REPUBLIC OF VENEZUELA	
STUDY ON COMPREHENSIVE IMPROVEMENT	
OF THE APURE RIVER BASIN	
CROSS SECTION	
BRUZUAL 15/23	
PLAN NO. 107	SCALE H=1:1000 V=1:100
SURVEY DATE	JANUARY-MARCH 1993
JICA	JAPAN INTERNATIONAL COOPERATION AGENCY

SECTION 8 (RIGHT)

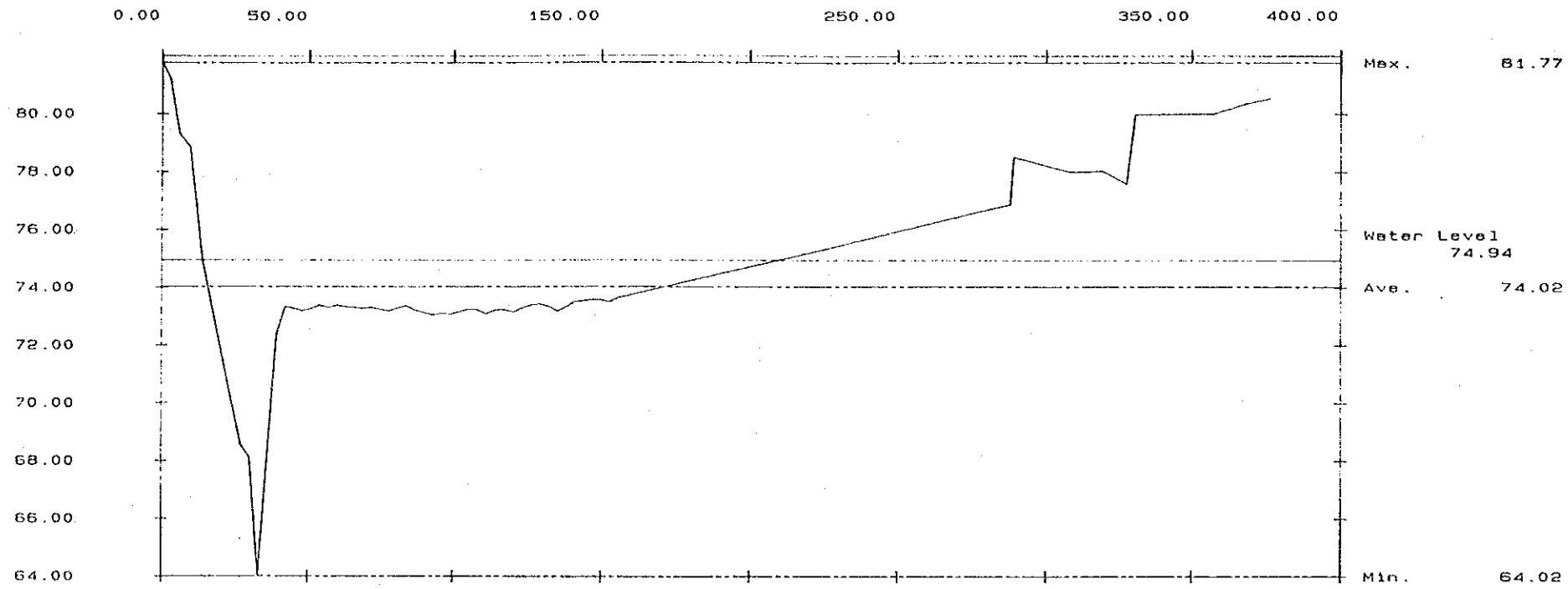


SECTION 7

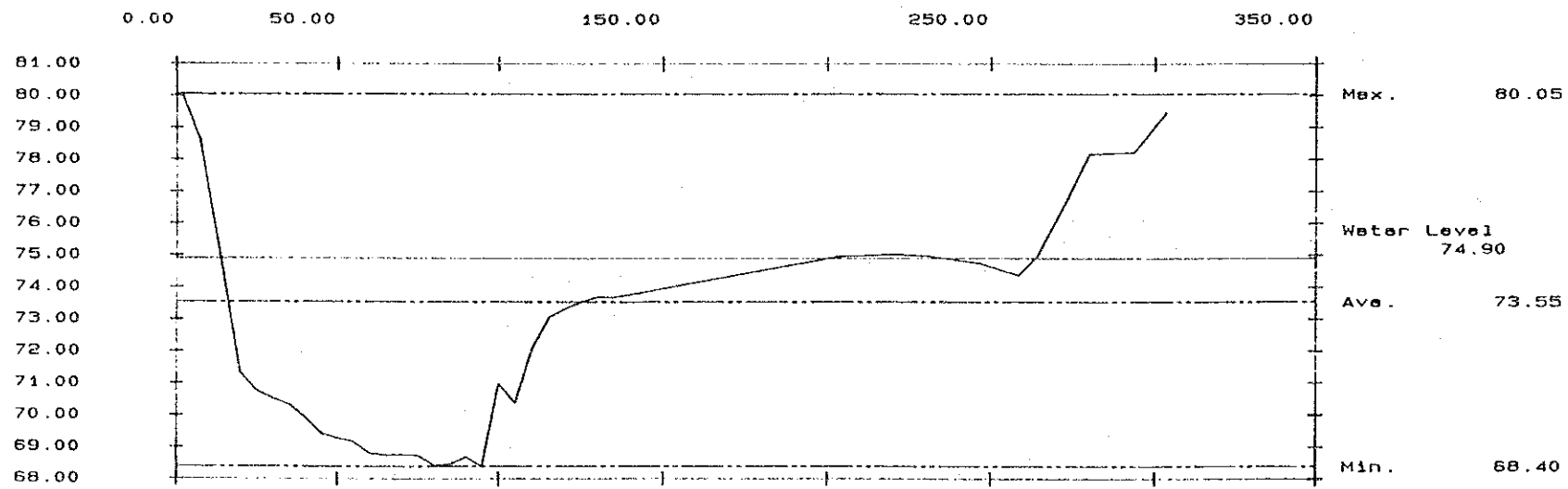


THE REPUBLIC OF VENEZUELA	
STUDY ON COMPREHENSIVE IMPROVEMENT	
OF THE APURE RIVER BASIN	
CROSS SECTION	
BRUZUAL 16/23	
PLAN NO. 108	SCALE H:1:1000 V:1:100
SURVEY DATE	JANUARY-MARCH 1993
JICA	JAPAN INTERNATIONAL COOPERATION AGENCY

SECTION 6



SECTION 5



THE REPUBLIC OF VENEZUELA			
STUDY ON COMPREHENSIVE IMPROVEMENT			
OF THE APURE RIVER BASIN			
CROSS SECTION			
BRUZUAL 17/23			
PLAN NO.	109	SCALE	H:1:1000 V:1:100
SURVEY DATE	JANUARY MARCH 1993		
JICA		JAPAN INTERNATIONAL COOPERATION AGENCY	

AREA=BRUZUAL

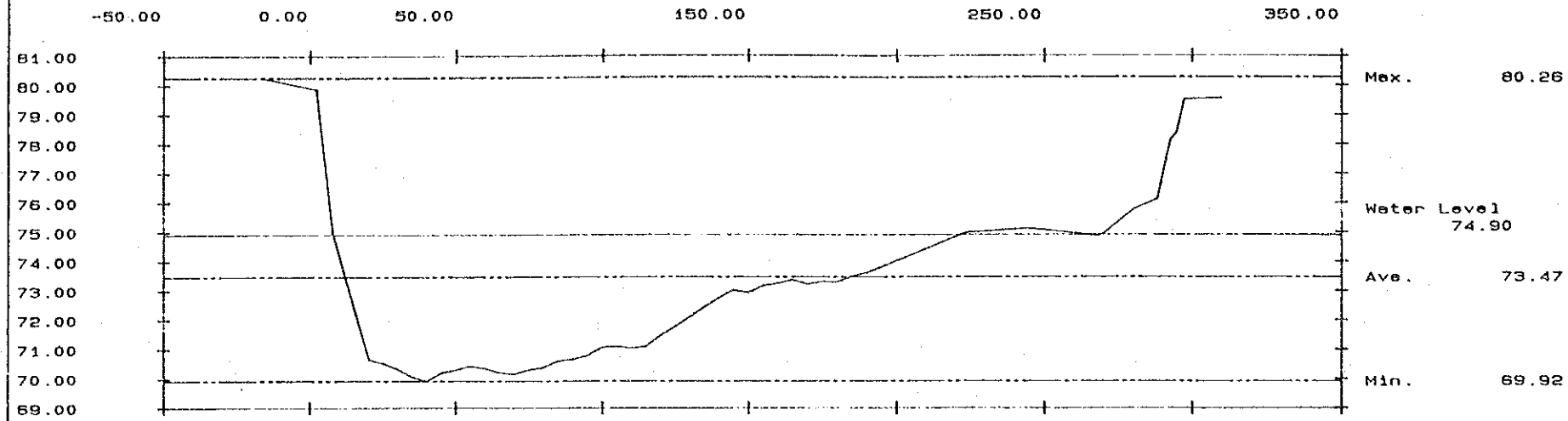
LIN= 3~ 4

HORIZONTAL=1: 1000

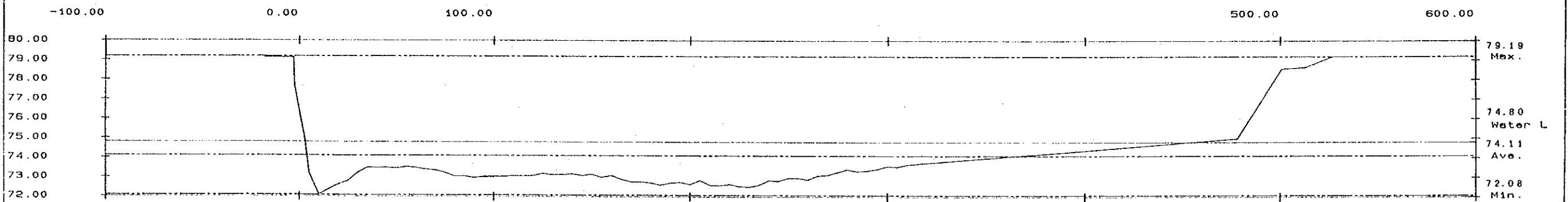
VERTICAL=1: 100

PLATE NO. 113

SECTION 4



SECTION 3



THE REPUBLIC OF VENEZUELA			
STUDY ON COMPREHENSIVE IMPROVEMENT			
OF THE APURE RIVER BASIN			
CROSS SECTION			
BRUZUAL 18/23			
PLAN NO.	110	SCALE	H:1:1000 V:1:100
SURVEY DATE	JANUARY MARCH 1993		
JICA		JAPAN INTERNATIONAL	
COOPERATION AGENCY			

AREA=BRUZUAL

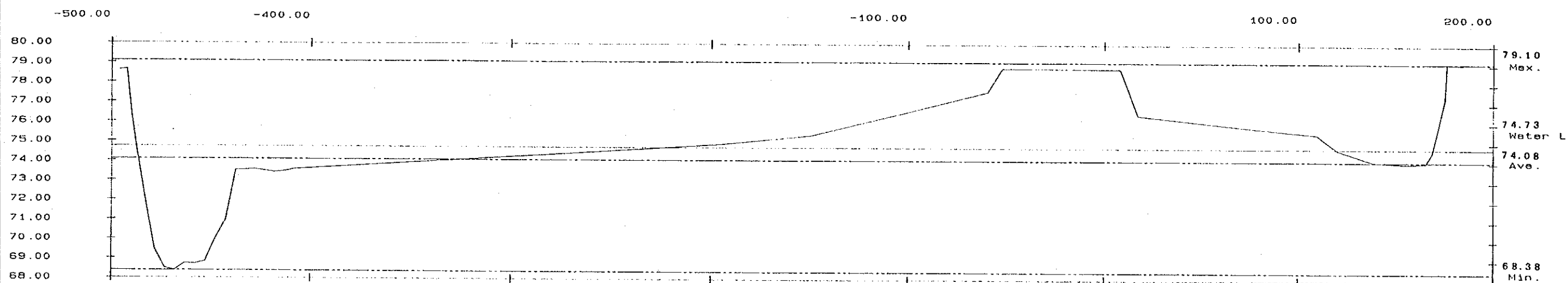
LIN= 2


HORIZONTAL=1: 1000

VERTICAL=1: 100

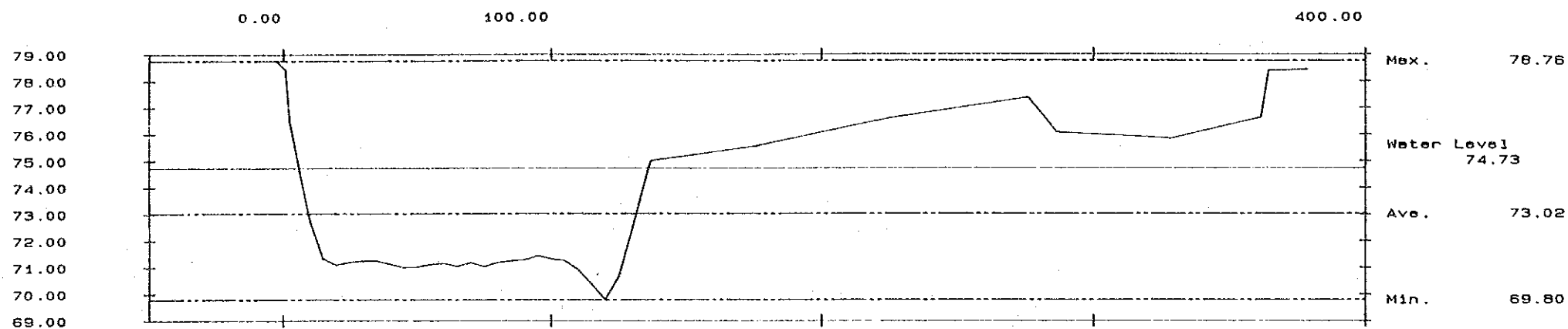
PLATE NO. 114

SECTION 2 (LEFT)

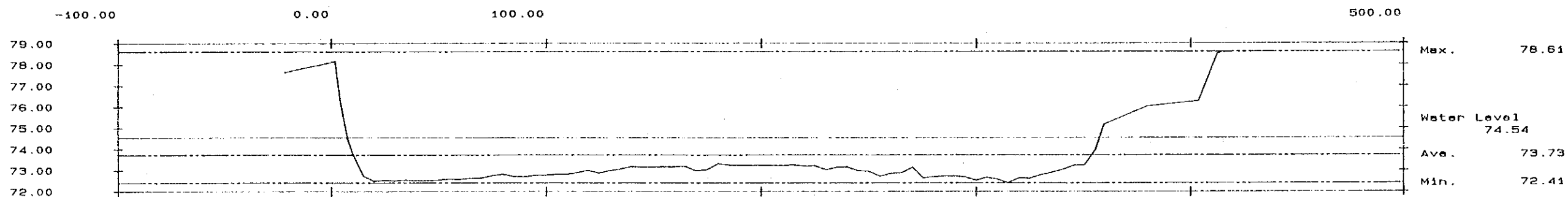


THE REPUBLIC OF VENEZUELA			
STUDY ON COMPREHENSIVE IMPROVEMENT			
OF THE APURE RIVER BASIN			
CROSS SECTION			
BRUZUAL 19/23			
PLAN NO.	111	SCALE	H:1:1000 V:1:100
SURVEY DATE	JANUARY MARCH 1993		
		JAPAN INTERNATIONAL	
COOPERATION AGENCY			

SECTION 1 (LEFT)

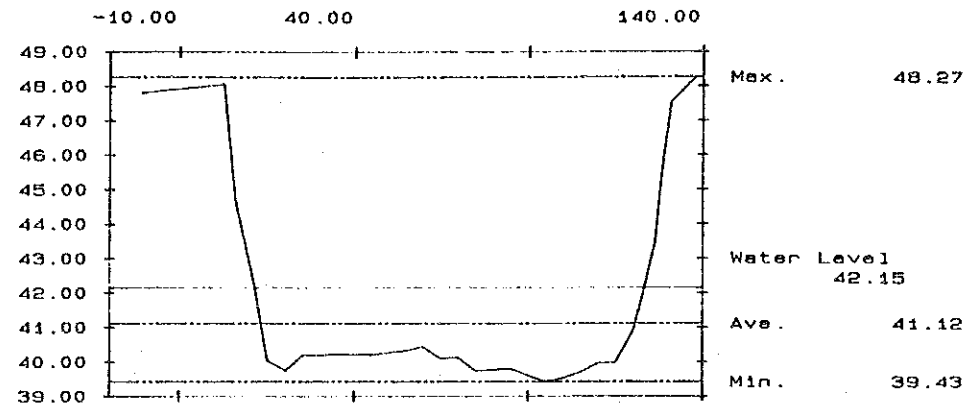


SECTION 0 (LEFT)

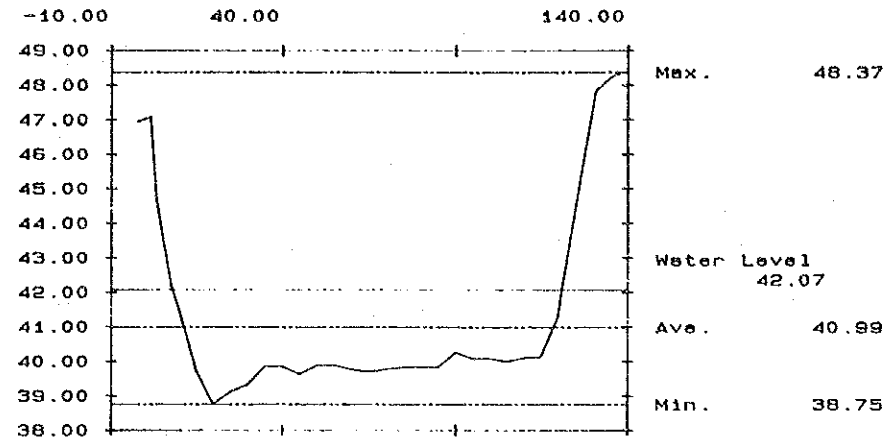


THE REPUBLIC OF VENEZUELA			
STUDY ON COMPREHENSIVE IMPROVEMENT			
OF THE APURE RIVER BASIN			
CROSS SECTION			
BRUZUAL 20/23			
PLAN NO.	112	SCALE	H:1:1000 V:1:100
SURVEY DATE	JANUARY-MARCH 1993		
JICA		JAPAN INTERNATIONAL	
COOPERATION AGENCY			

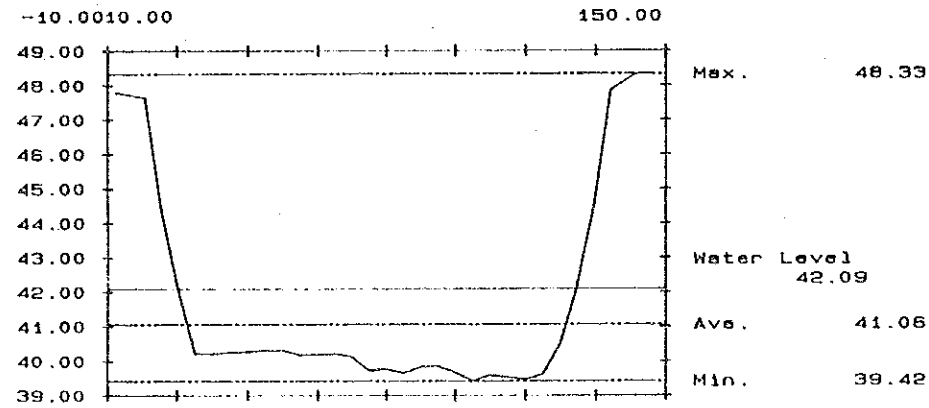
SECTION 52



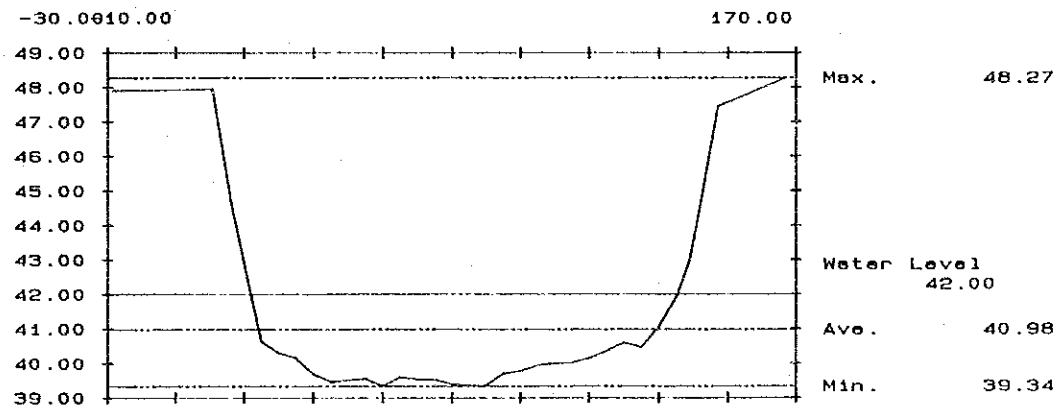
SECTION 49



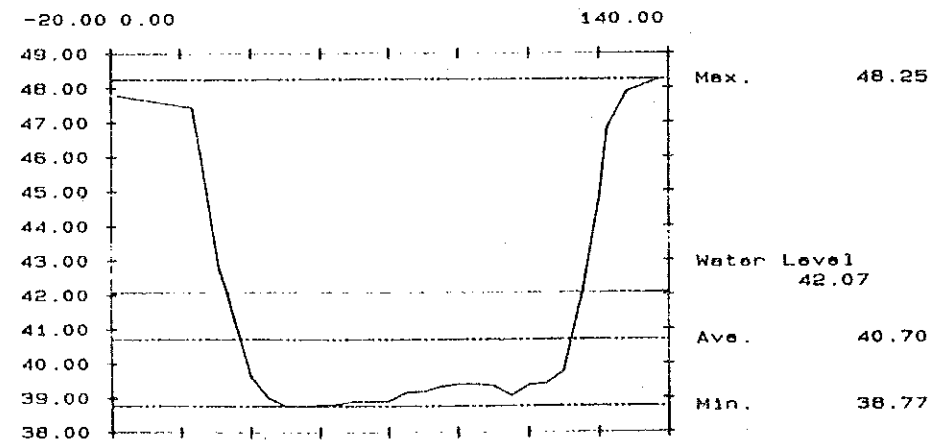
SECTION 51



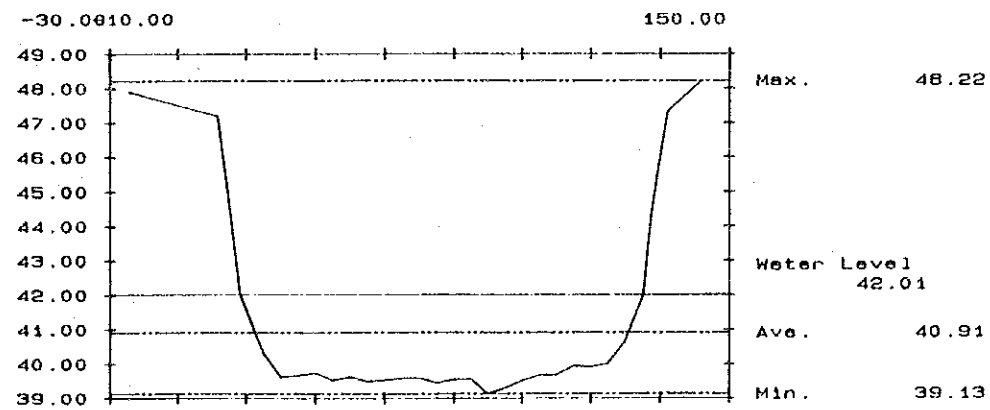
SECTION 48



SECTION 50

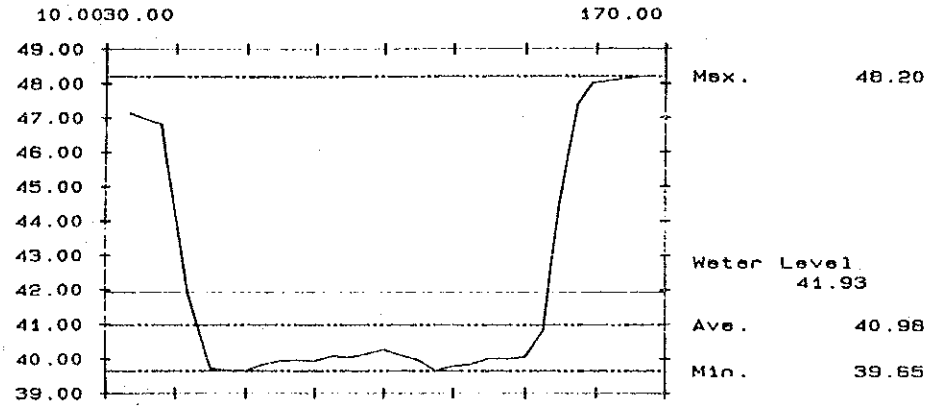


SECTION 47

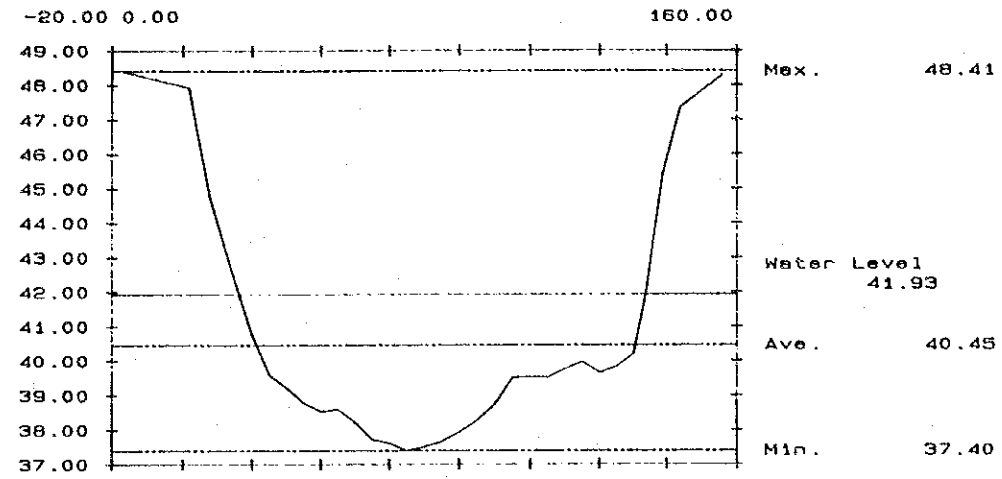


THE REPUBLIC OF VENEZUELA	
STUDY ON COMPREHENSIVE IMPROVEMENT	
OF THE APURE RIVER BASIN	
CROSS SECTION	
CAMAGUAN I/12	
PLAN NO. 116	SCALE H:1:1000 V:1:100
SURVEY DATE	JANUARY-MARCH 1993
JICA	JAPAN INTERNATIONAL COOPERATION AGENCY

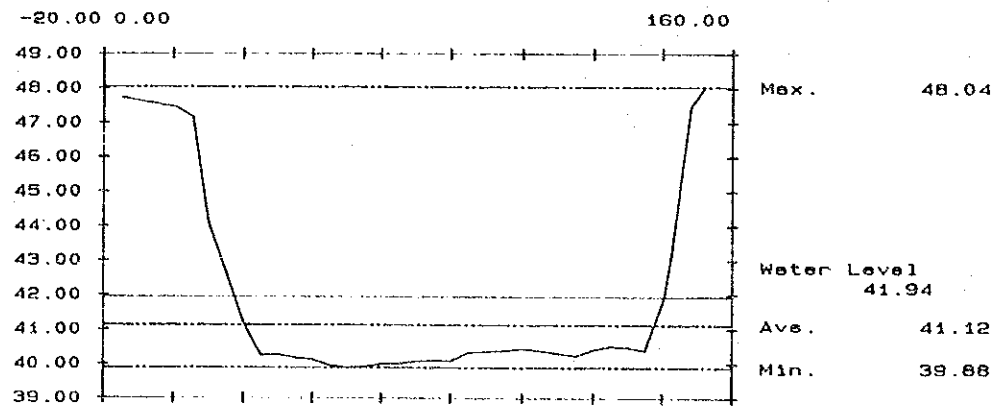
SECTION 46



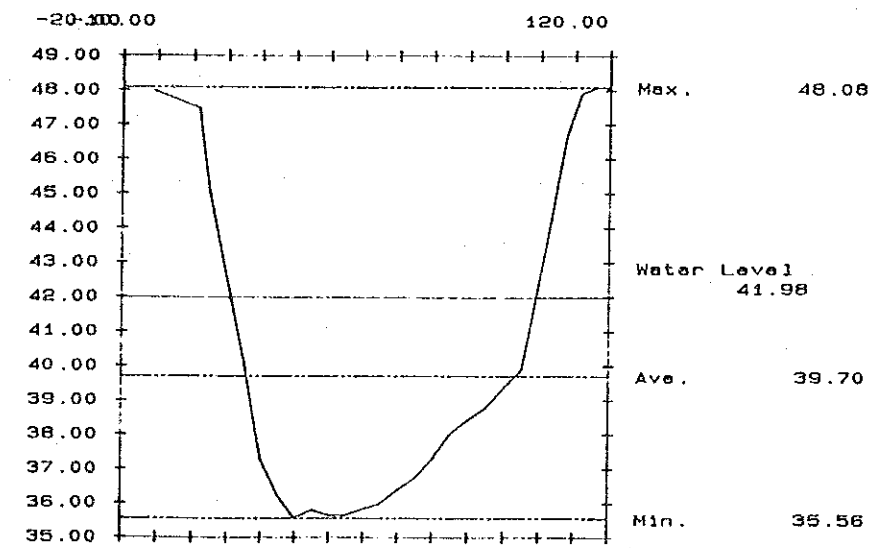
SECTION 43



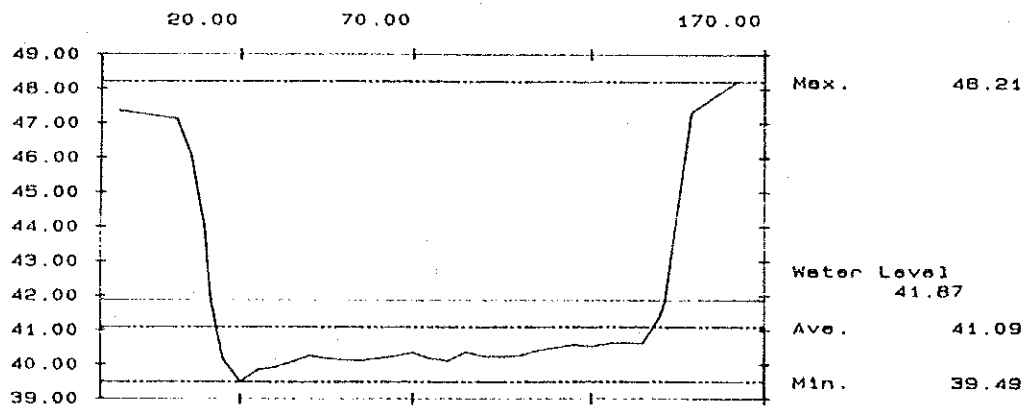
SECTION 45



SECTION 42

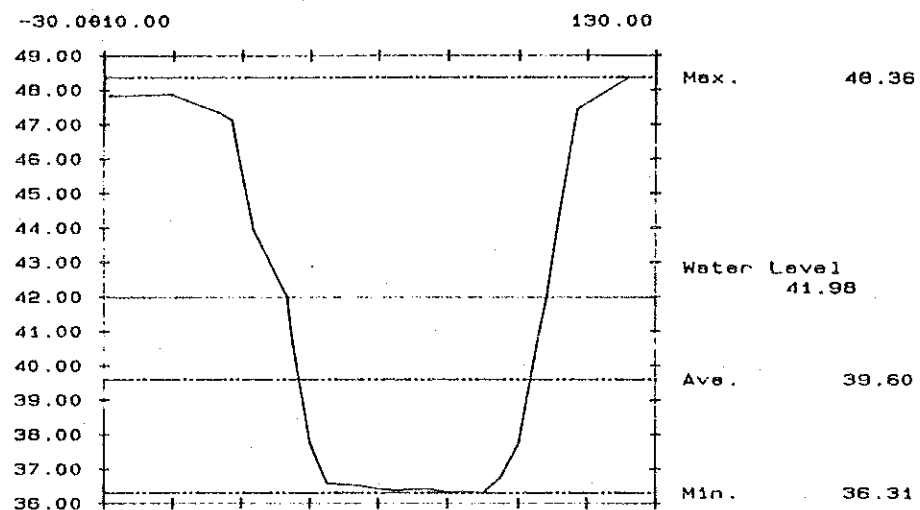


SECTION 44

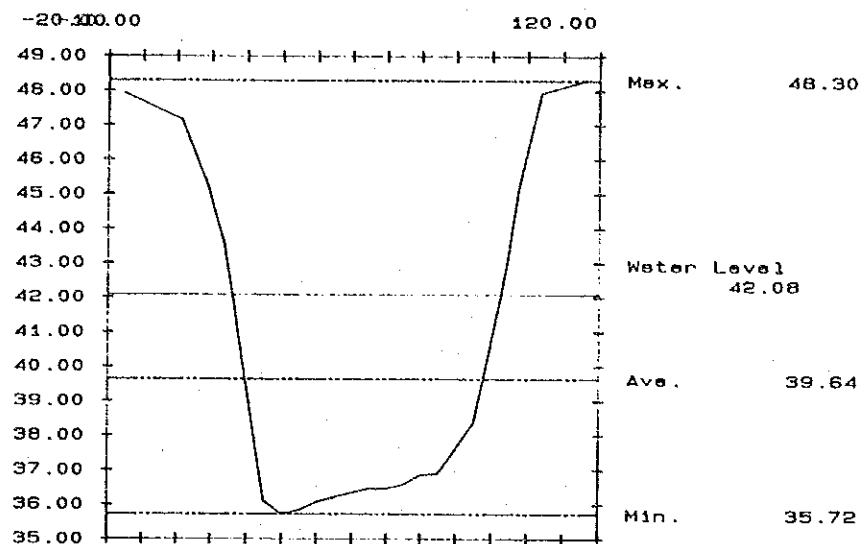


THE REPUBLIC OF VENEZUELA			
STUDY ON COMPREHENSIVE IMPROVEMENT			
OF THE APURE RIVER BASIN			
CROSS SECTION			
CAMAGUAN 1/12			
PLAN NO.	117	SCALE	H:1:1000 V:1:100
SURVEY DATE	JANUARY-MARCH 1993		
JICA		JAPAN INTERNATIONAL COOPERATION AGENCY	

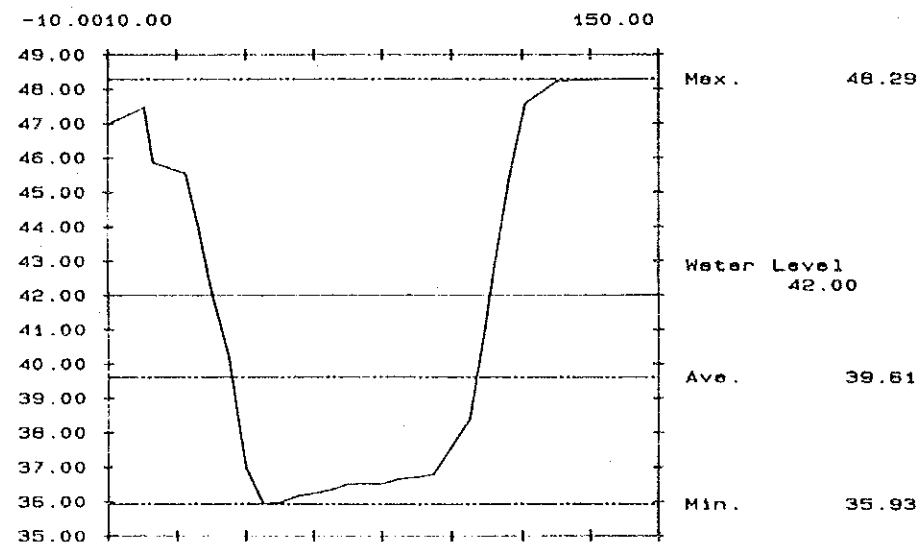
SECTION 41



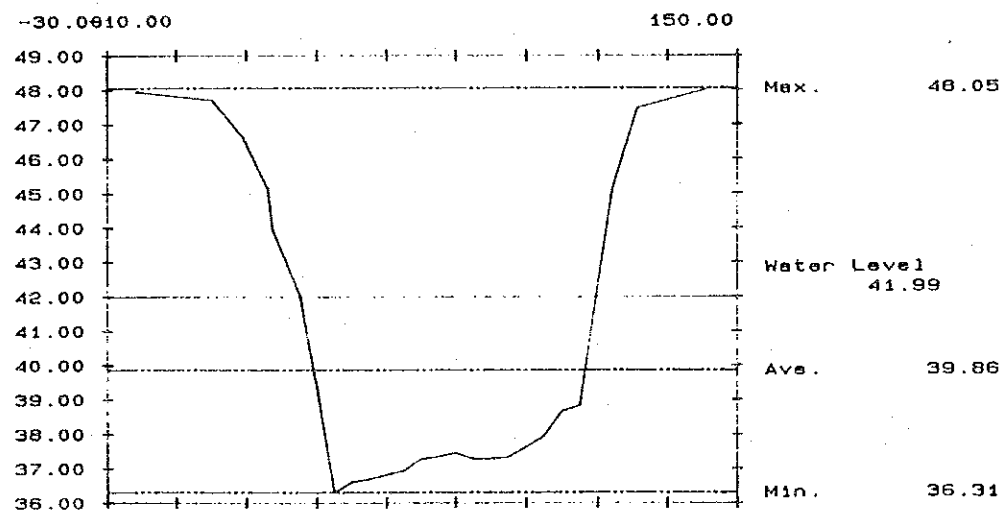
SECTION 39



SECTION 40

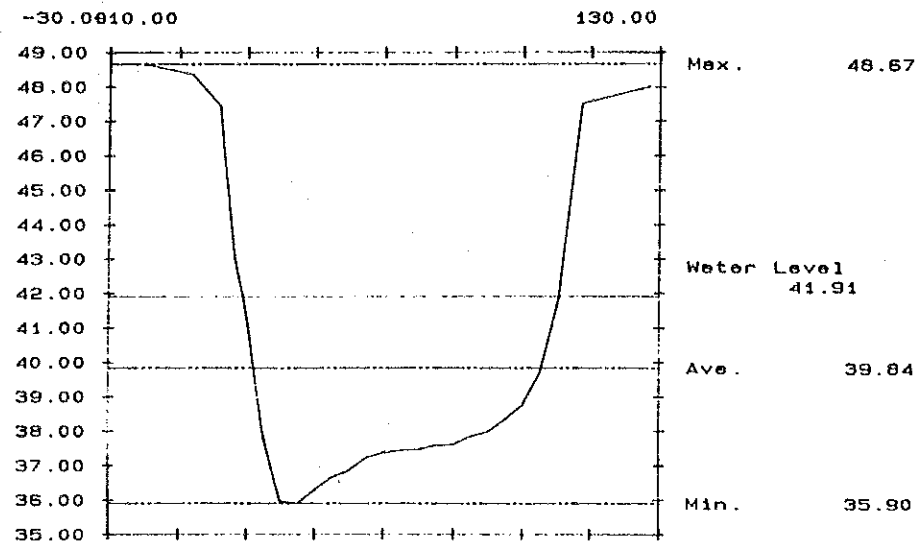


SECTION 38

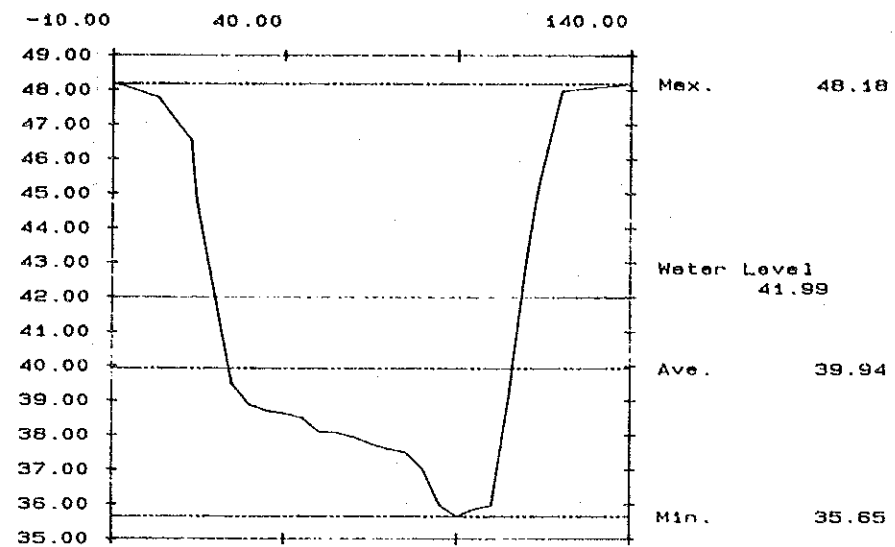


THE REPUBLIC OF VENEZUELA	
STUDY ON COMPREHENSIVE IMPROVEMENT	
OF THE APURE RIVER BASIN	
CROSS SECTION	
CAMAGUAN 3/12	
PLAN NO. 118	SCALE H:1:1000 V:1:100
SURVEY DATE	JANUARY-MARCH 1993
JICA	JAPAN INTERNATIONAL COOPERATION AGENCY

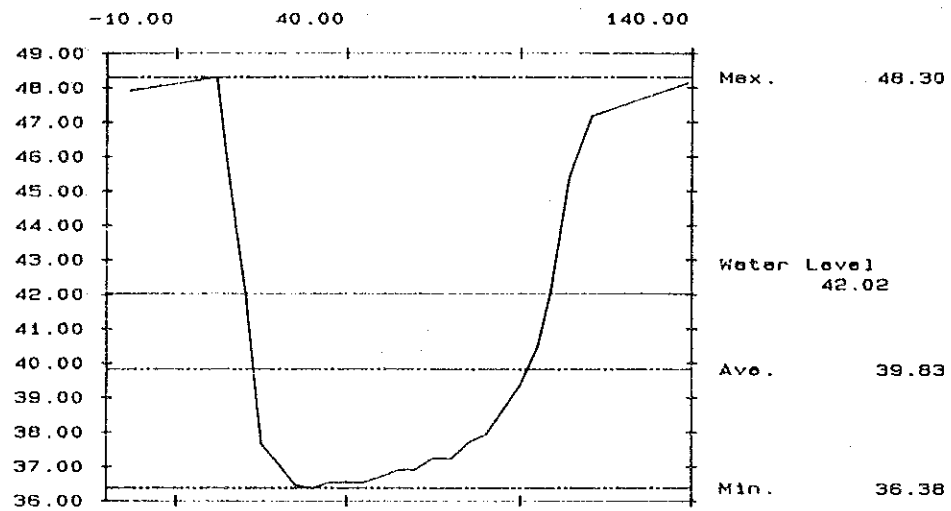
SECTION 37



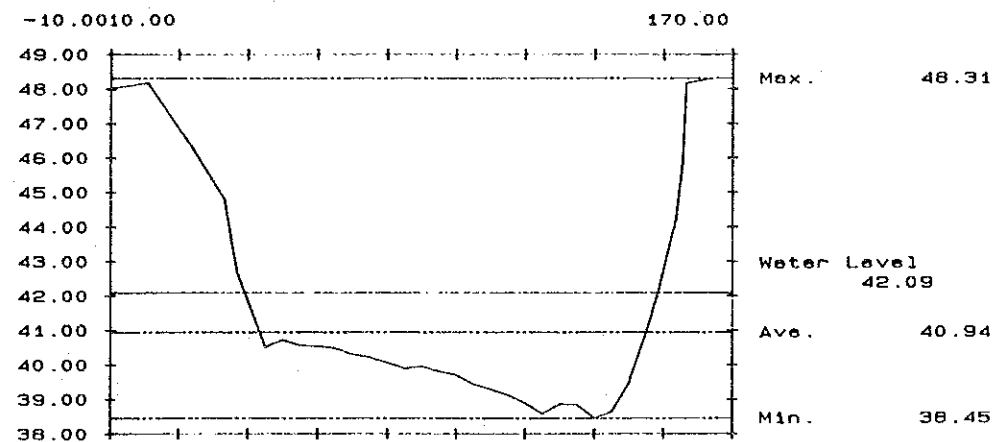
SECTION 34



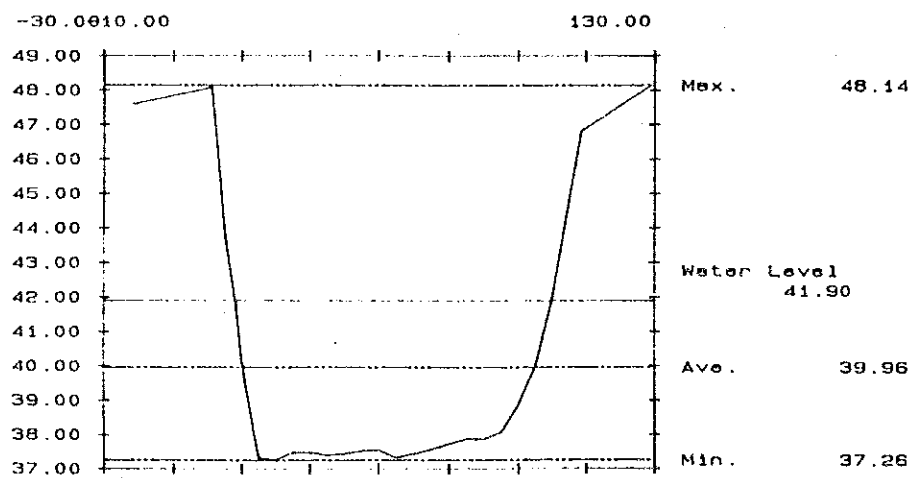
SECTION 36



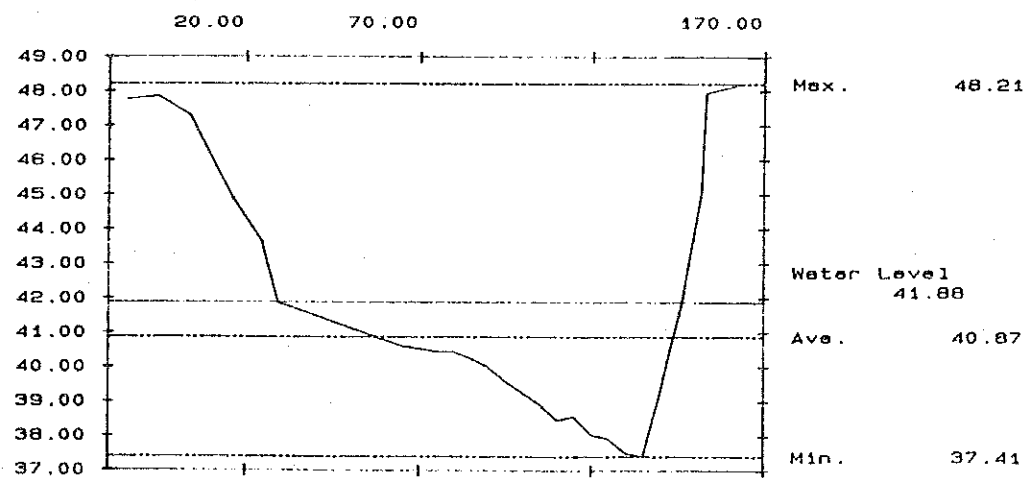
SECTION 33



SECTION 35

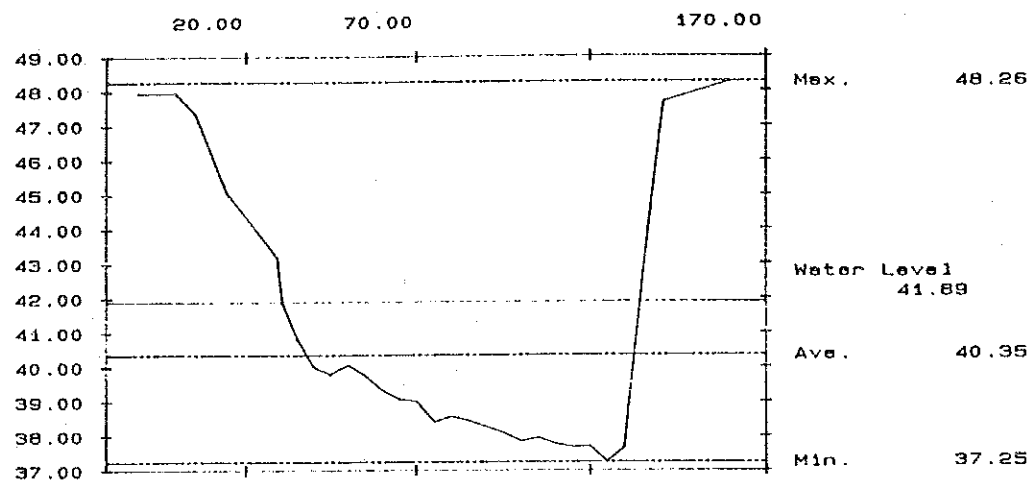


SECTION 32

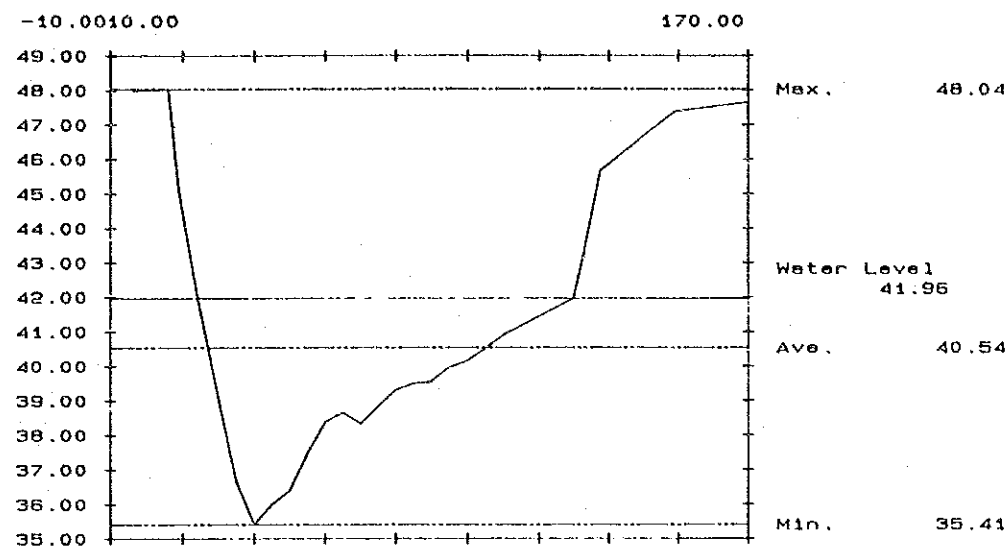


THE REPUBLIC OF VENEZUELA			
STUDY ON COMPREHENSIVE IMPROVEMENT			
OF THE APURE RIVER BASIN			
CROSS SECTION			
CAMAGUAN 4/12			
PLAN NO.	119	SCALE	H:1:1000 V:1:100
SURVEY DATE	JANUARY MARCH 1993		
JICA		JAPAN INTERNATIONAL	
COOPERATION AGENCY			

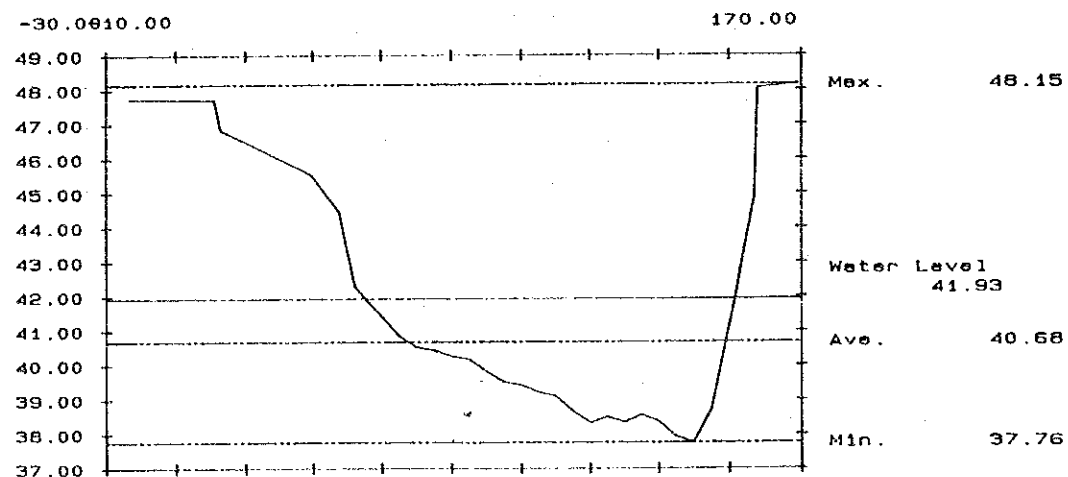
SECTION 31



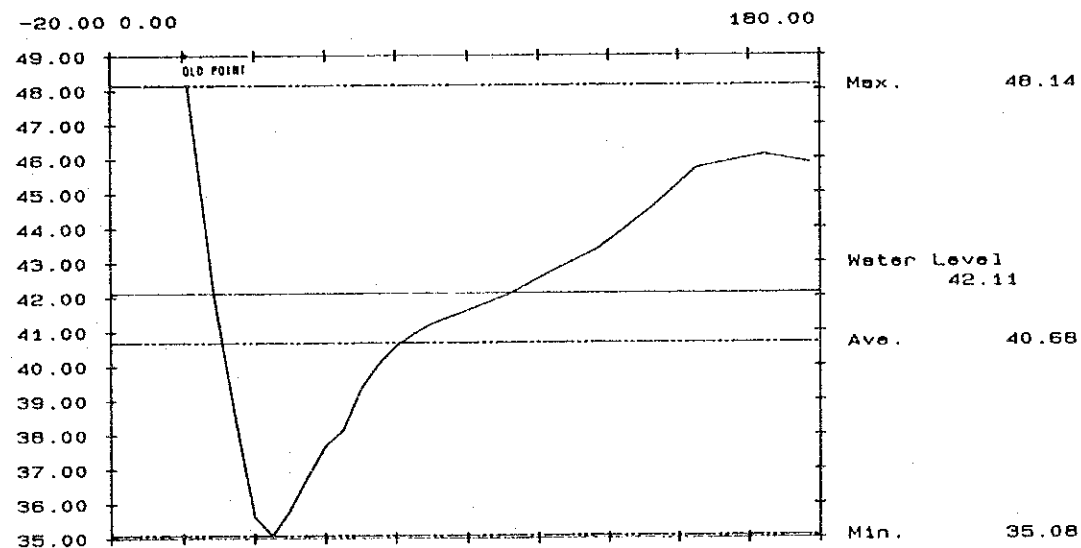
SECTION 28



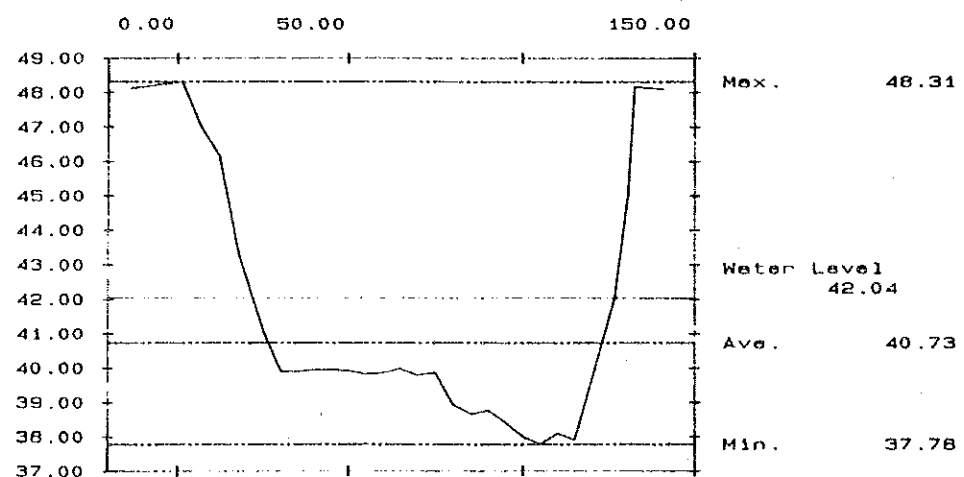
SECTION 30



SECTION 27

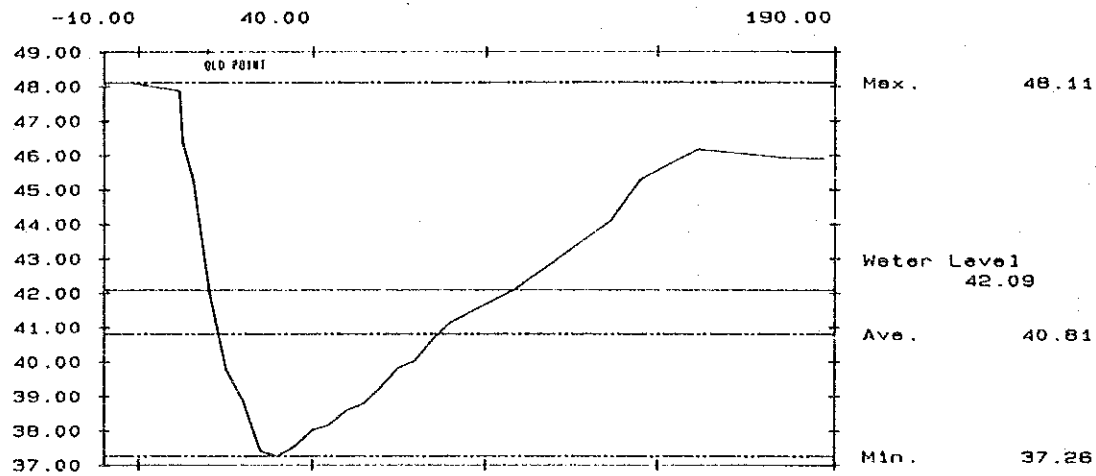


SECTION 29

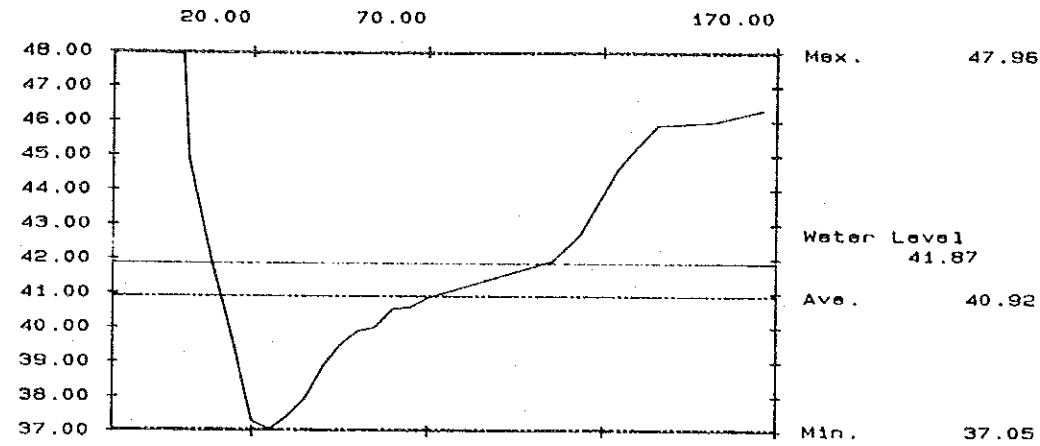


THE REPUBLIC OF VENEZUELA	
STUDY ON COMPREHENSIVE IMPROVEMENT	
OF THE APURE RIVER BASIN	
CROSS SECTION	
CAMAGUAN 5/12	
PLAN NO. 120	SCALE H:1:1000 V:1:100
SURVEY DATE	JANUARY MARCH 1993
JICA	JAPAN INTERNATIONAL COOPERATION AGENCY

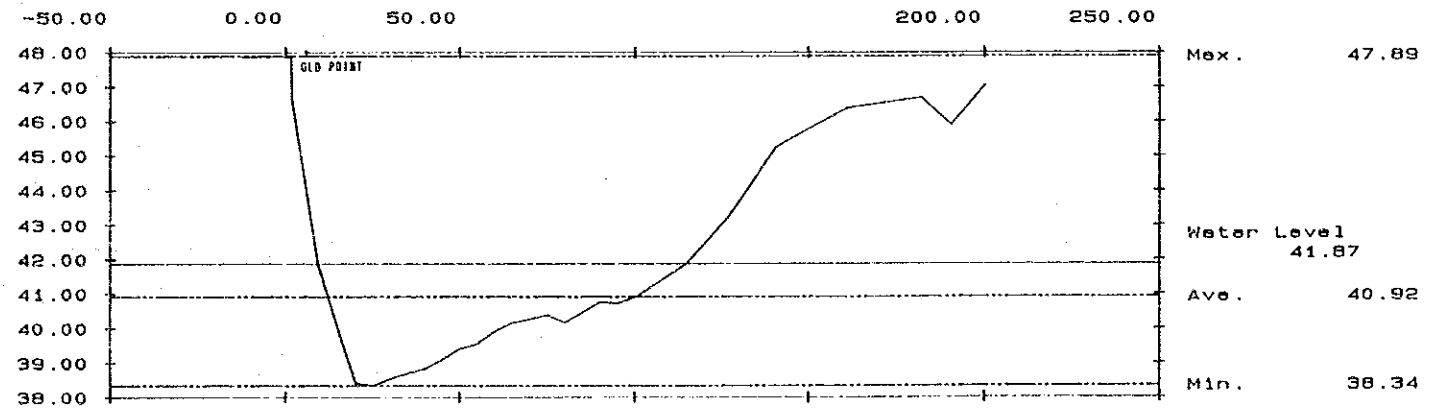
SECTION 26



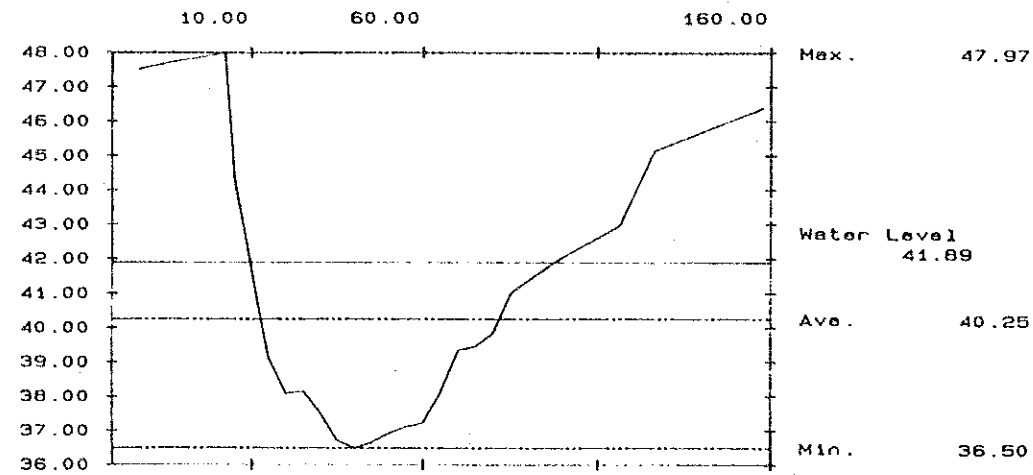
SECTION 24



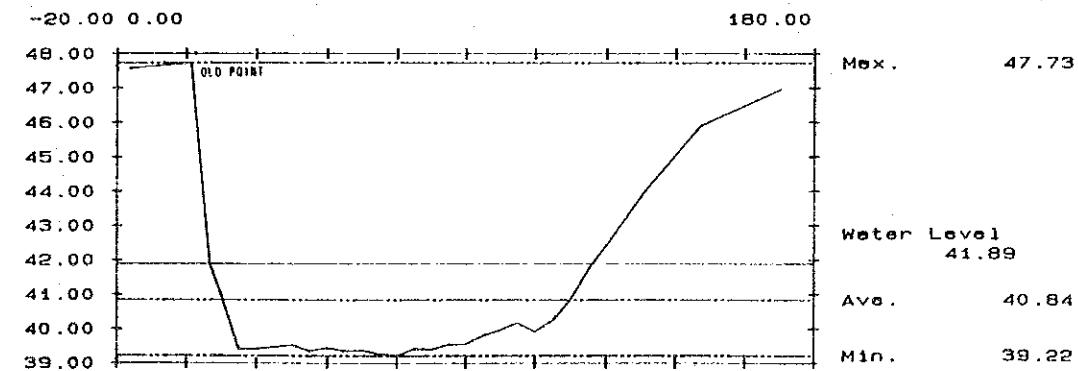
SECTION 23




SECTION 25

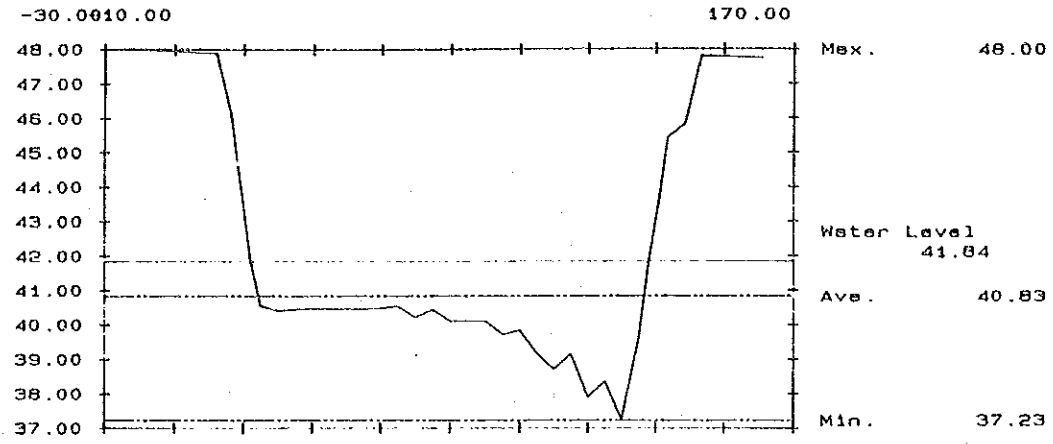


SECTION 22

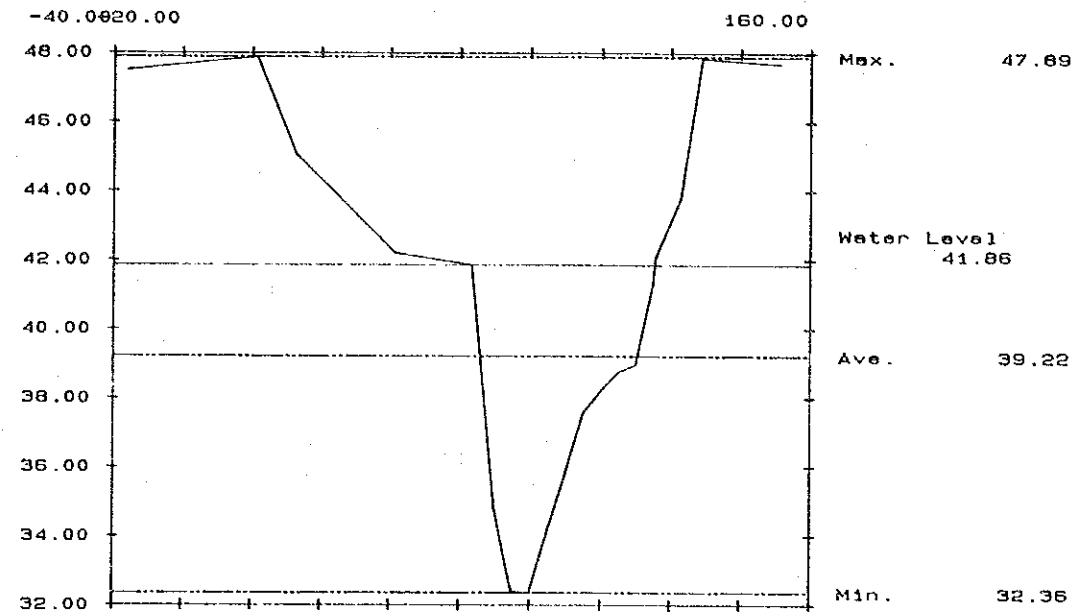


THE REPUBLIC OF VENEZUELA		
STUDY ON COMPREHENSIVE IMPROVEMENT		
OF THE APURE RIVER BASIN		
CROSS SECTION		
CAMAGUAN 6/12		
PLAN NO.	121	SCALE H:1:1000 V:1:100
SURVEY DATE	JANUARY MARCH 1993	
 JAPAN INTERNATIONAL COOPERATION AGENCY		

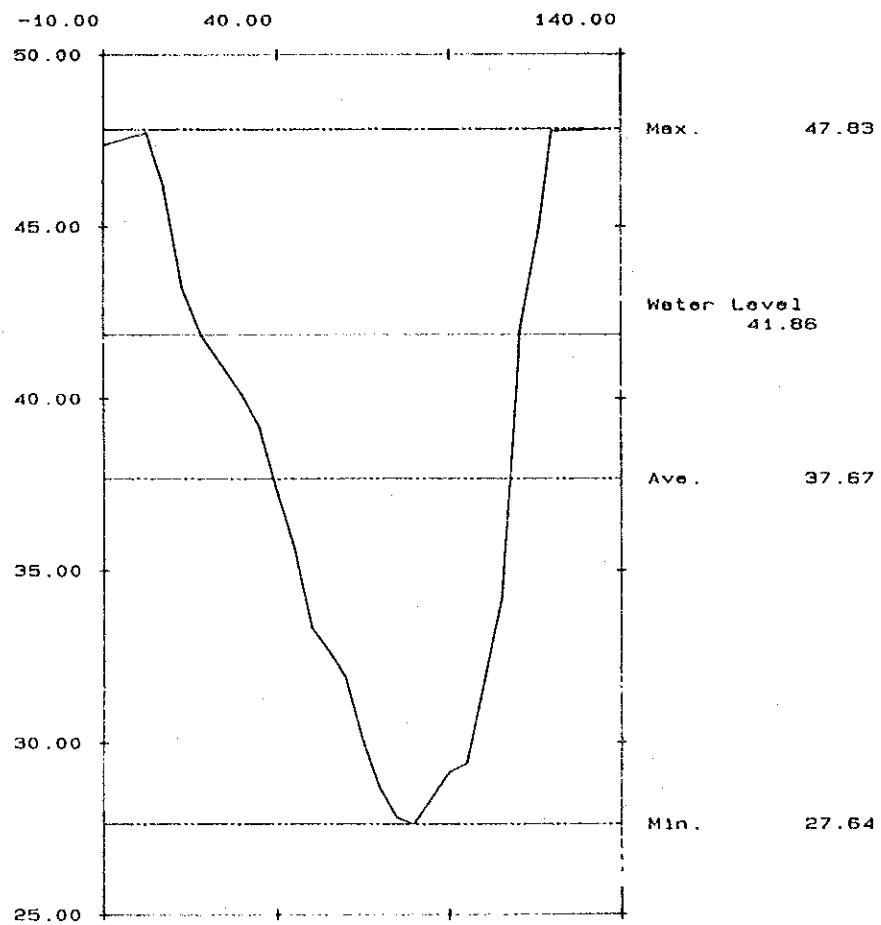
SECTION 21



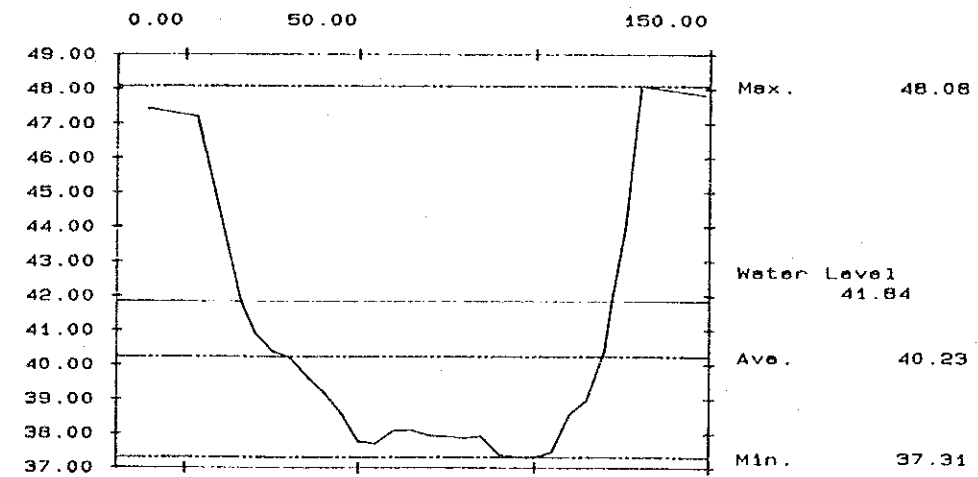
SECTION 19



SECTION 20

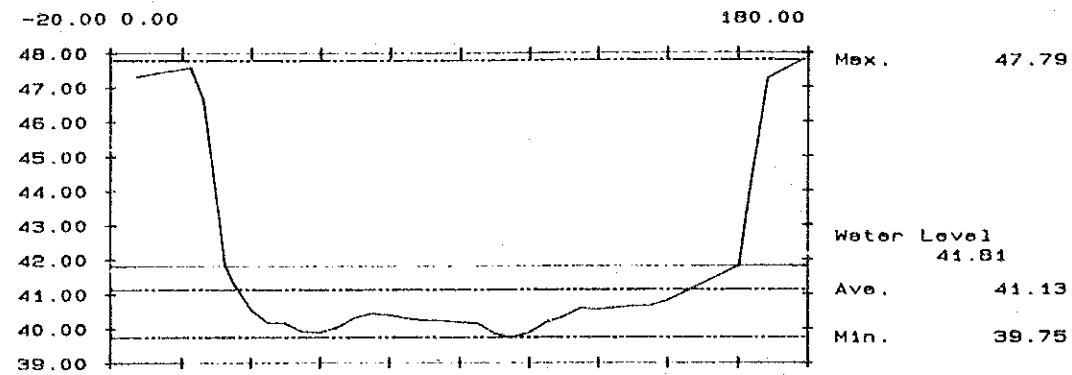


SECTION 18

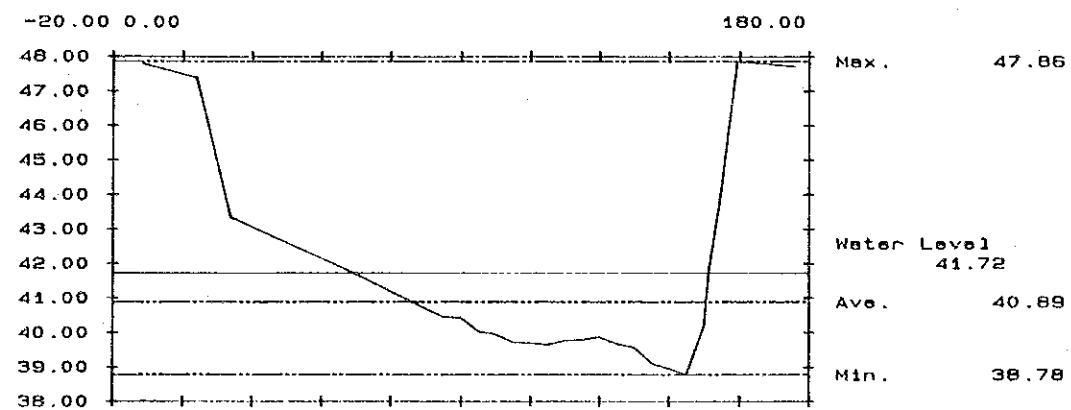


THE REPUBLIC OF VENEZUELA			
STUDY ON COMPREHENSIVE IMPROVEMENT			
OF THE APURE RIVER BASIN			
CROSS SECTION			
CAMAGUAN 7/12			
PLAN NO.	122	SCALE	H:1:1000 V:1:100
SURVEY DATE	JANUARY - MARCH 1993		
JICA		JAPAN INTERNATIONAL	
		COOPERATION AGENCY	

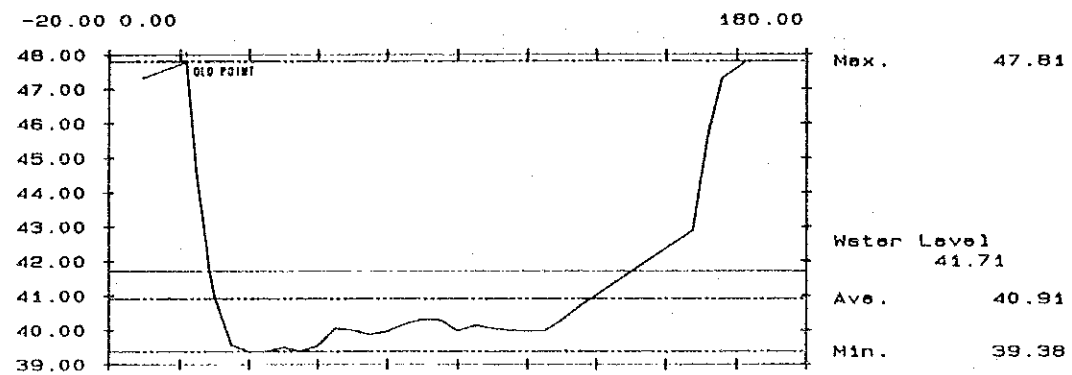
SECTION 17



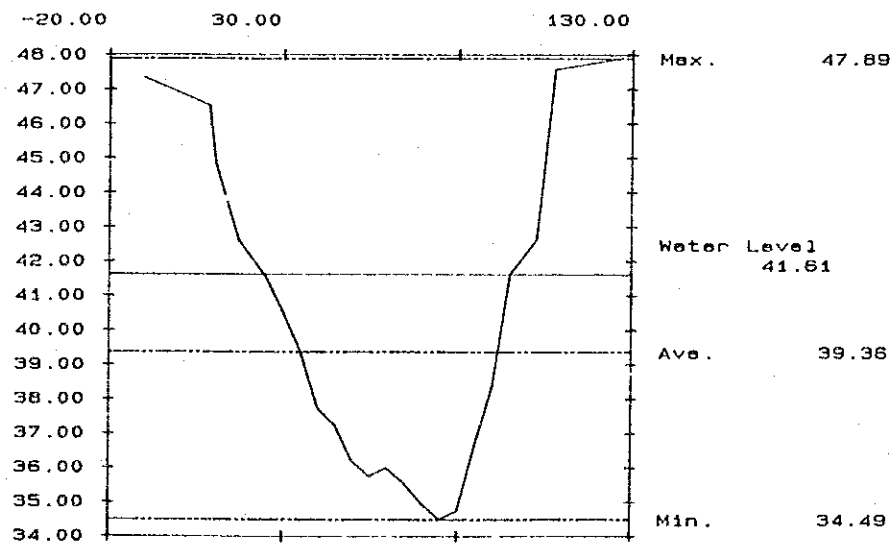
SECTION 14



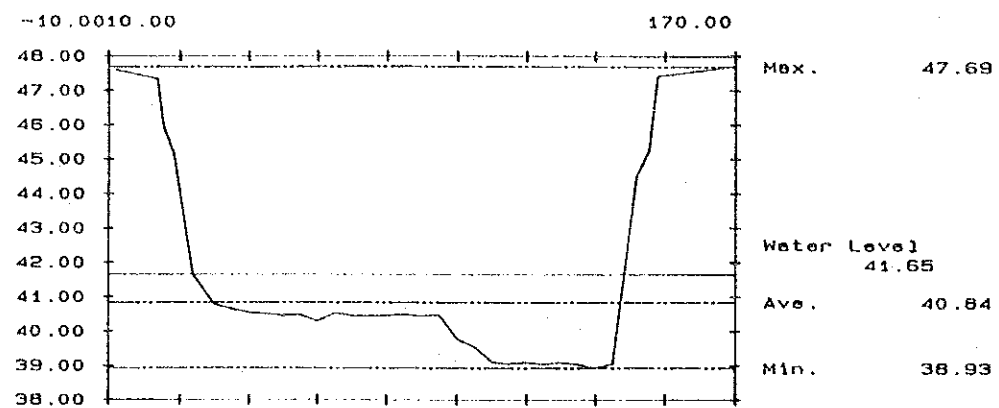
SECTION 16



SECTION 13

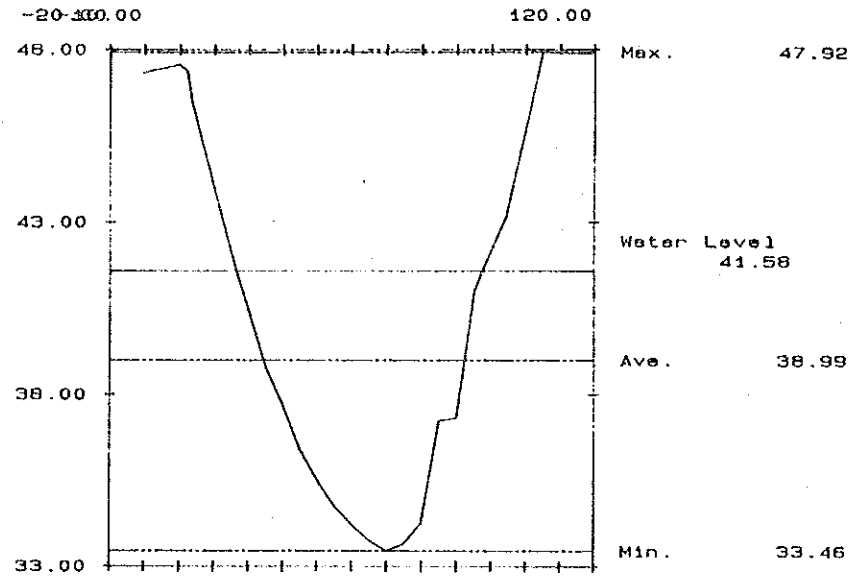


SECTION 15

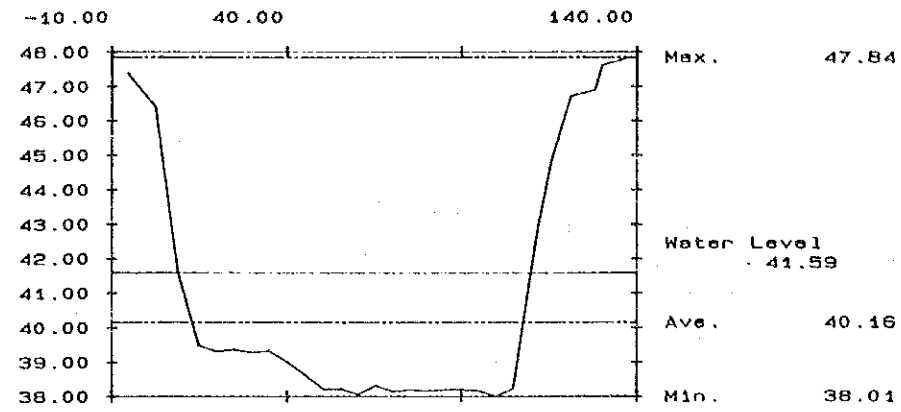


THE REPUBLIC OF VENEZUELA			
STUDY ON COMPREHENSIVE IMPROVEMENT			
OF THE APURE RIVER BASIN			
CROSS SECTION			
CAMAGUAN 8/12			
PLAN NO.	123	SCALE	H:1:1000 V:1:100
SURVEY DATE	JANUARY MARCH 1993		
JICA		JAPAN INTERNATIONAL	
COOPERATION AGENCY			

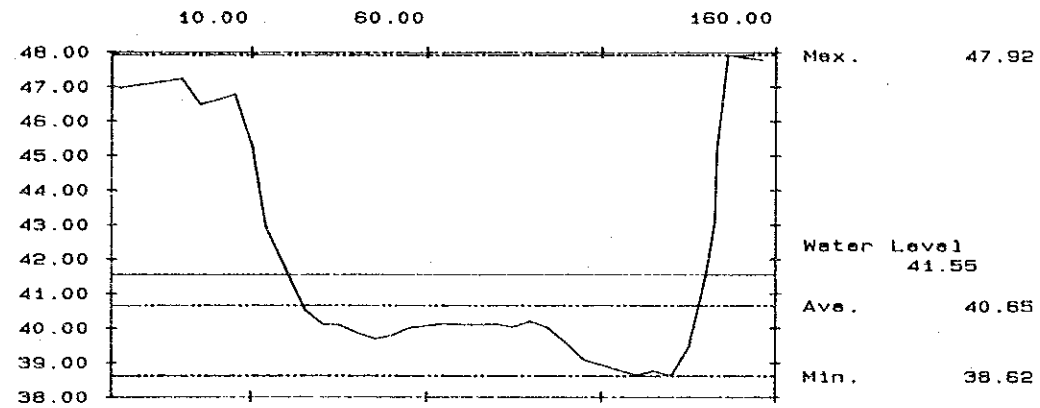
SECTION 12



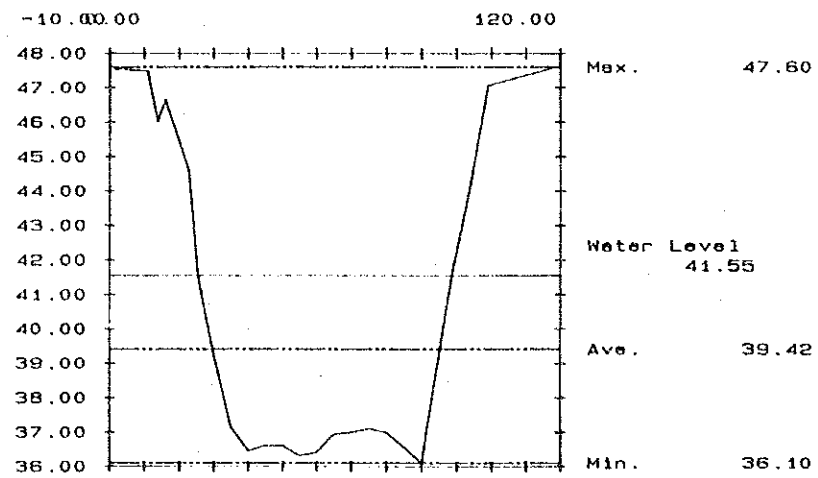
SECTION 10



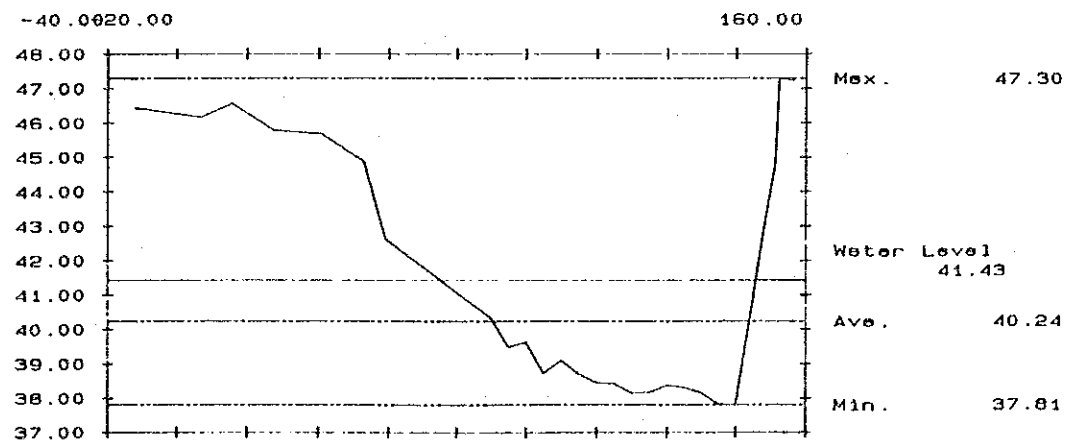
SECTION 9



SECTION 11

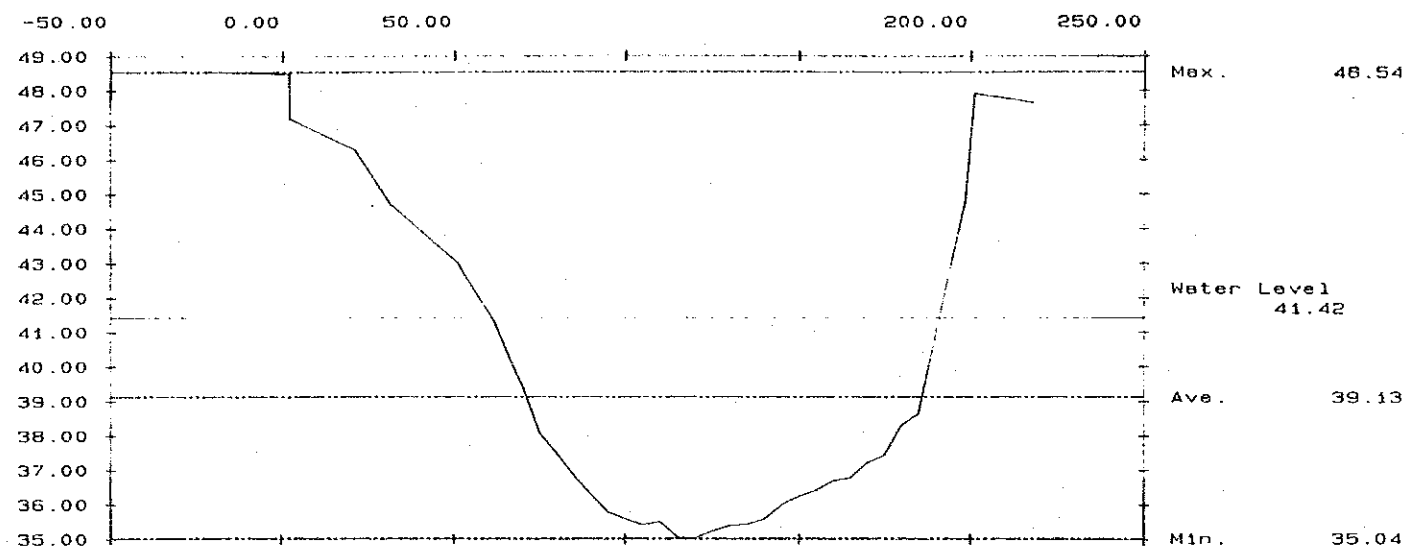


SECTION 8

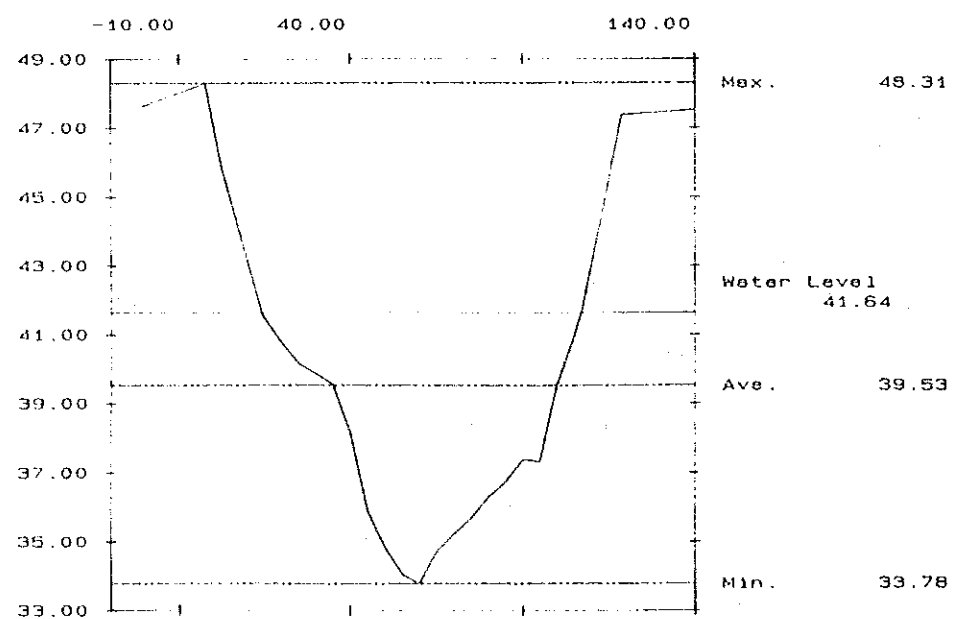


THE REPUBLIC OF VENEZUELA		
STUDY ON COMPREHENSIVE IMPROVEMENT		
OF THE APURE RIVER BASIN		
CROSS SECTION		
CAMAGUAN 9/12		
PLAN NO.	124	SCALE H:1:1000 V:1:100
SURVEY DATE	JANUARY MARCH 1993	
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		

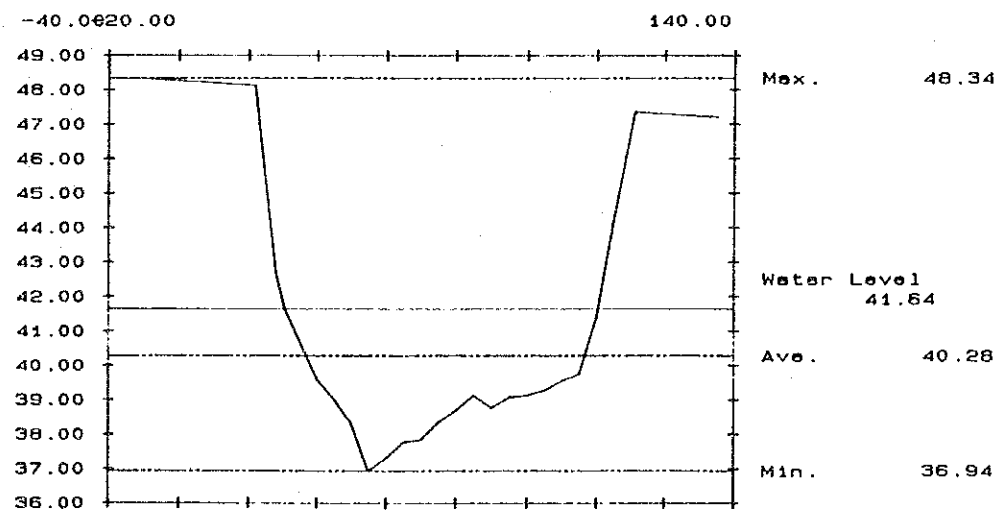
SECTION 7



SECTION 6

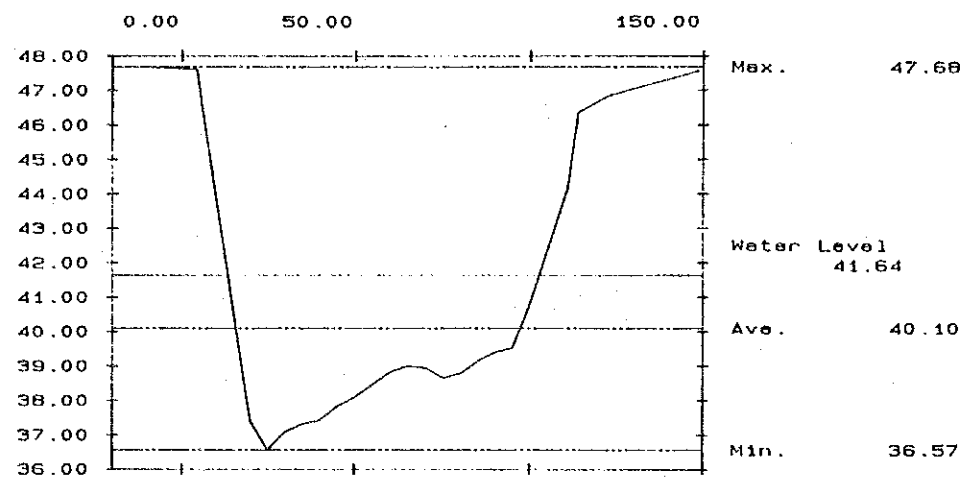


SECTION 5

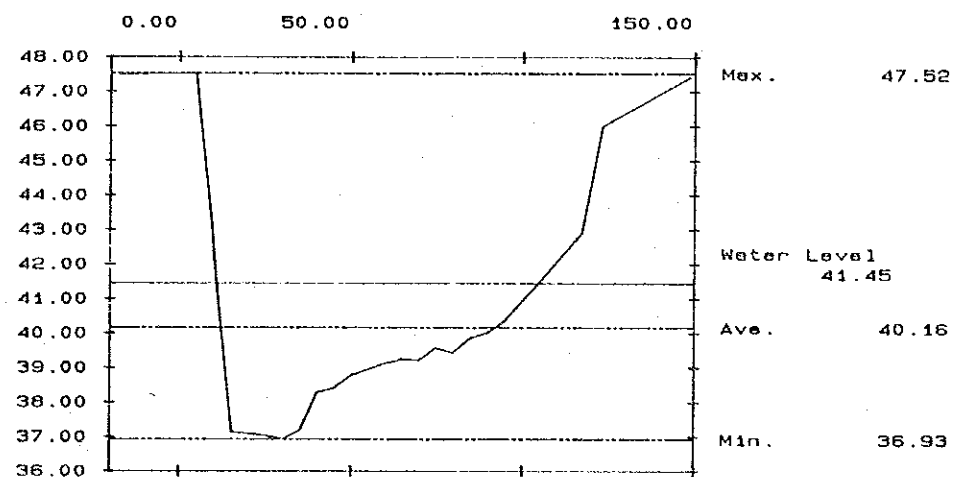


THE REPUBLIC OF VENEZUELA	
STUDY ON COMPREHENSIVE IMPROVEMENT	
OF THE APURE RIVER BASIN	
CROSS SECTION	
CAMAGUAN 10/12	
PLAN NO. 125	SCALE H:1:1000 V:1:100
SURVEY DATE	JANUARY MARCH 1993
JICA	JAPAN INTERNATIONAL COOPERATION AGENCY

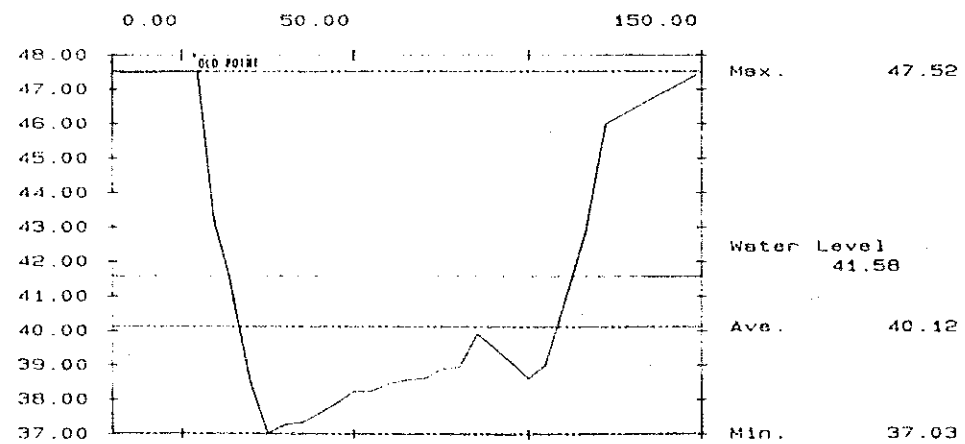
SECTION 4



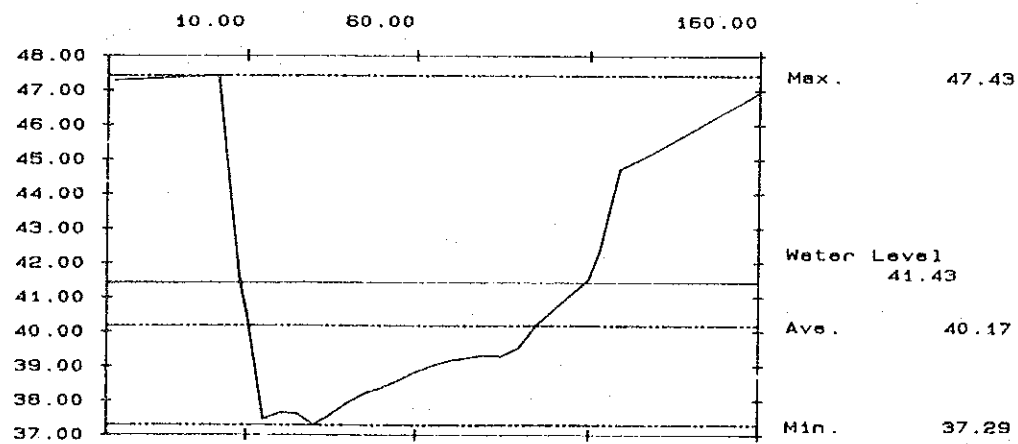
SECTION 2



SECTION 3

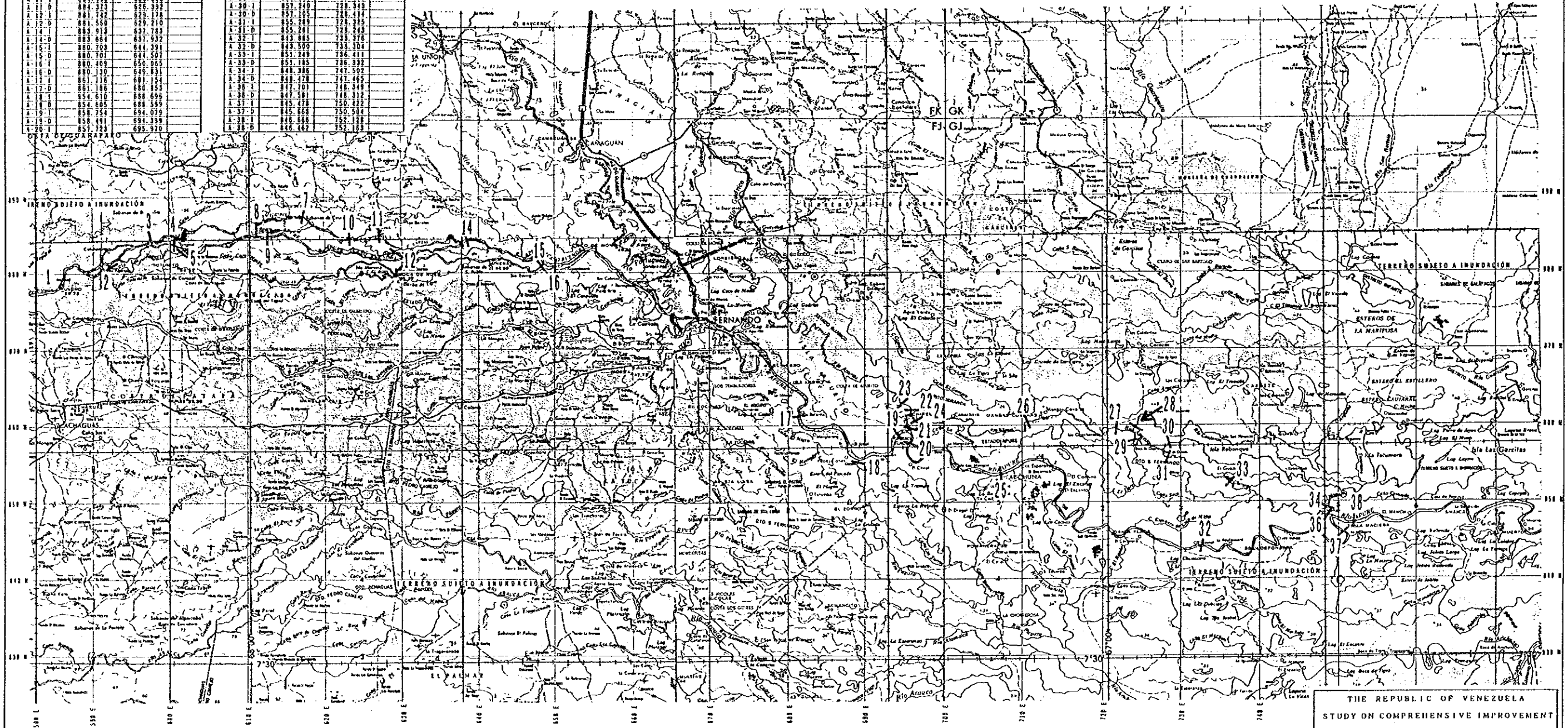


SECTION 1



THE REPUBLIC OF VENEZUELA			
STUDY ON COMPREHENSIVE IMPROVEMENT			
OF THE APURE RIVER BASIN			
CROSS SECTION			
CAMAGUAN II/12			
PLAN NO.	126	SCALE	H-1:1000 V-1:100
SURVEY DATE	JANUARY MARCH 1993		
JICA		JAPAN INTERNATIONAL	
COOPERATION AGENCY			

Station	Northing	Easting	Station	Northing	Easting
A-01-D	893.178	635.899	A-20-D	857.152	695.811
A-01-I	879.178	586.145	A-21-D	859.218	695.557
A-02-D	880.148	591.925	A-21-I	859.207	695.683
A-02-I	880.700	591.952	A-22-D	861.593	695.728
A-03-D	884.200	598.782	A-22-I	861.681	695.695
A-03-I	884.093	598.780	A-23-D	862.928	695.421
A-04-D	882.729	602.658	A-23-I	862.974	695.466
A-04-I	882.845	602.748	A-24-D	865.394	695.596
A-05-D	882.492	602.818	A-24-I	865.156	696.055
A-05-I	882.442	602.850	A-25-D	853.616	707.455
A-07-D	887.243	616.851	A-25-I	853.362	707.522
A-07-I	887.135	616.870	A-26-D	860.358	711.625
A-08-D	884.742	610.836	A-26-I	860.111	711.674
A-08-I	884.674	610.905	A-27-D	858.928	722.862
A-09-D	884.702	612.746	A-27-I	858.778	722.865
A-09-I	884.540	612.746	A-28-D	859.426	722.973
A-10-D	884.252	623.055	A-28-I	859.345	724.030
A-10-I	884.151	622.989	A-29-D	858.164	724.128
A-11-D	884.493	626.372	A-29-I	858.126	723.958
A-11-I	884.313	626.392	A-30-D	857.740	728.348
A-12-D	881.742	629.178	A-30-I	857.105	728.414
A-12-I	881.658	629.210	A-31-D	855.281	728.358
A-13-D	883.664	637.632	A-31-I	855.281	728.358
A-13-I	883.708	634.391	A-32-D	843.885	733.376
A-14-D	880.701	644.507	A-32-I	843.500	733.104
A-14-I	880.409	650.065	A-33-D	851.749	736.411
A-15-D	880.130	649.831	A-33-I	851.185	736.892
A-15-I	881.116	649.831	A-34-D	848.386	747.592
A-16-D	884.610	688.699	A-34-I	848.128	747.448
A-16-I	884.605	688.559	A-35-D	847.581	748.312
A-17-D	858.754	694.079	A-35-I	845.478	750.422
A-17-I	858.491	694.399	A-36-D	845.688	750.504
A-18-D	857.723	693.970	A-36-I	845.686	752.128
A-18-I	857.723	693.970	A-37-D	846.467	752.153
A-19-D			A-37-I		
A-19-I			A-38-D		
A-20-D			A-38-I		



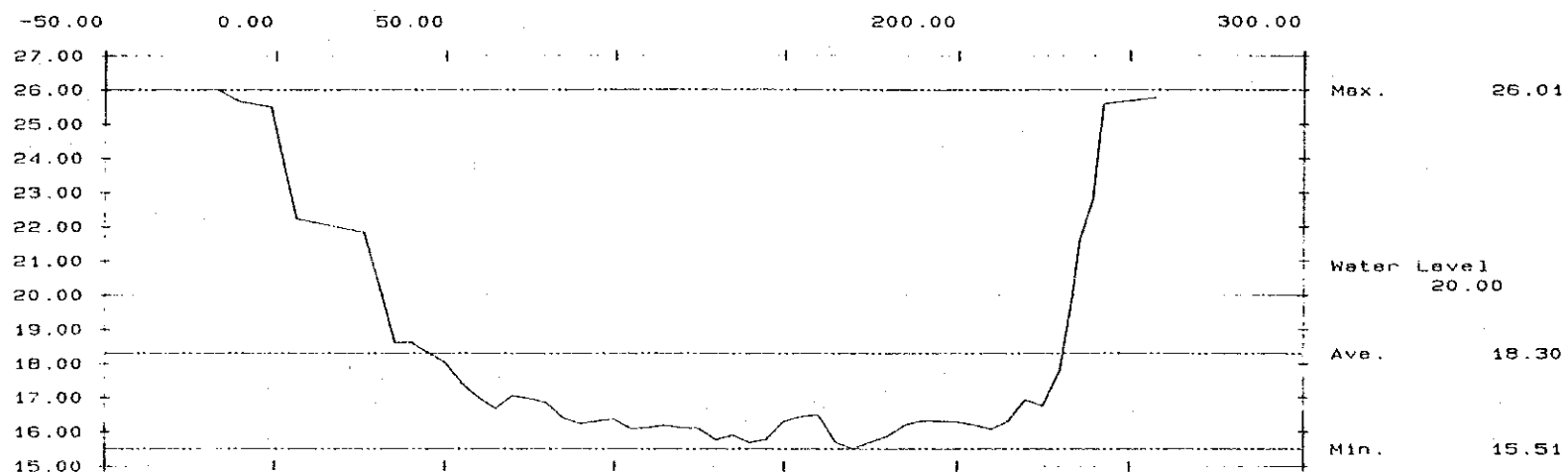
THE REPUBLIC OF VENEZUELA
STUDY ON COMPREHENSIVE IMPROVEMENT
OF THE APURE RIVER BASIN

LOCATION MAP OF ADDITIONAL
CROSS SECTION
ADDITIONAL AREA II/II

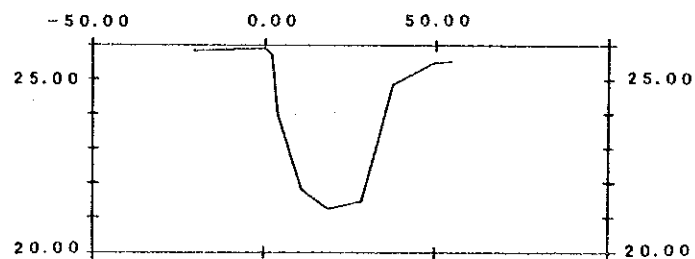
PLAN NO. 138 SCALE 1:200,000
SURVEY DATE JANUARY-MARCH 1993

JICA JAPAN INTERNATIONAL
COOPERATION AGENCY

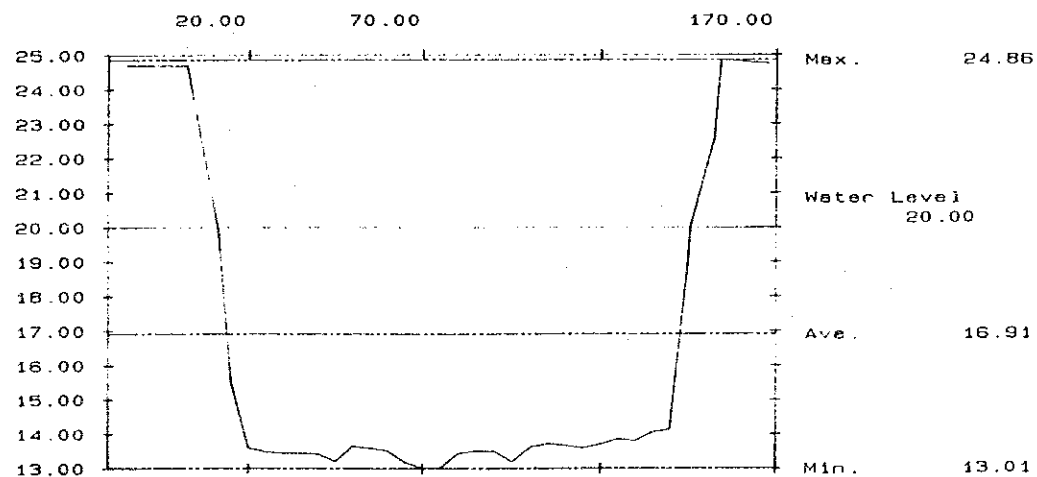
SECTION 1



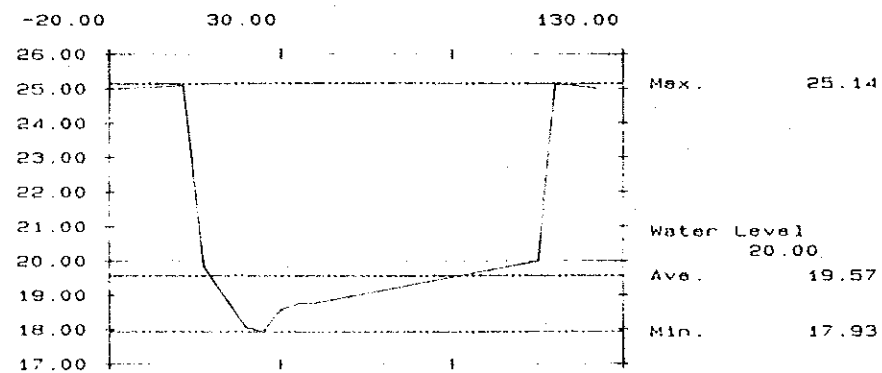
SECTION 2



SECTION 4

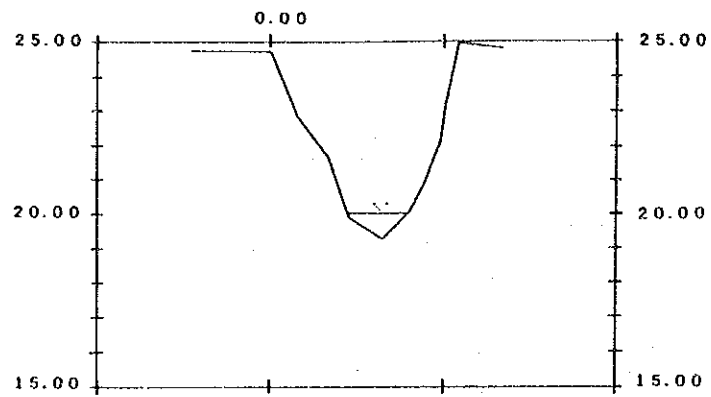


SECTION 3

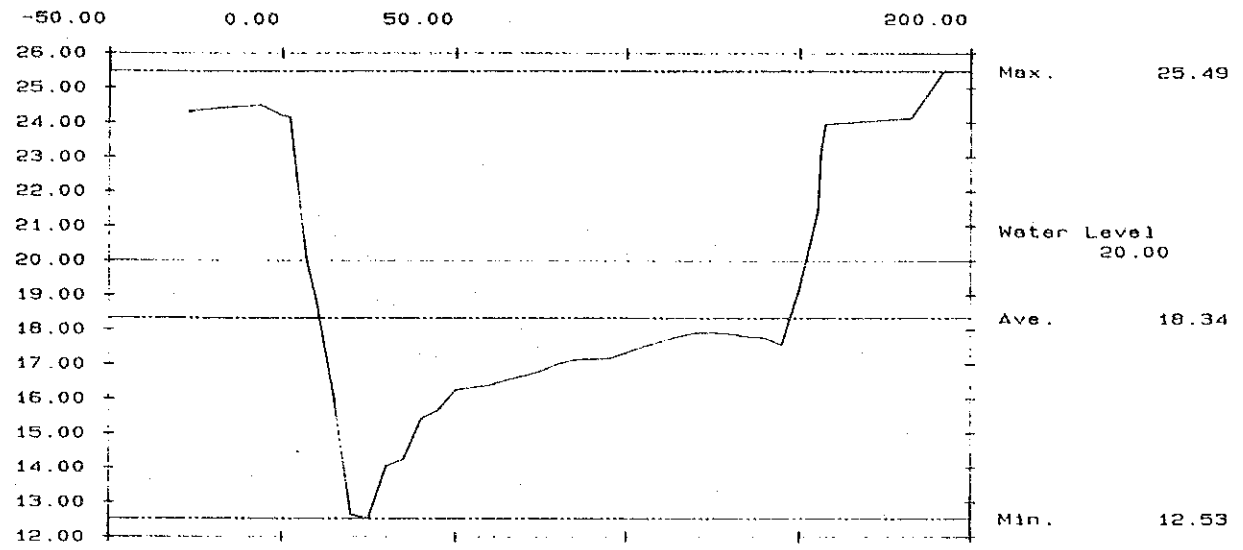


THE REPUBLIC OF VENEZUELA	
STUDY ON COMPREHENSIVE IMPROVEMENT	
OF THE APURE RIVER BASIN	
CROSS SECTION	
ADDITIONAL AREA I/II	
PLAN NO.	128 SCALE H:1:1000 V:1:100
SURVEY DATE	JANUARY MARCH 1993
JICA	JAPAN INTERNATIONAL COOPERATION AGENCY

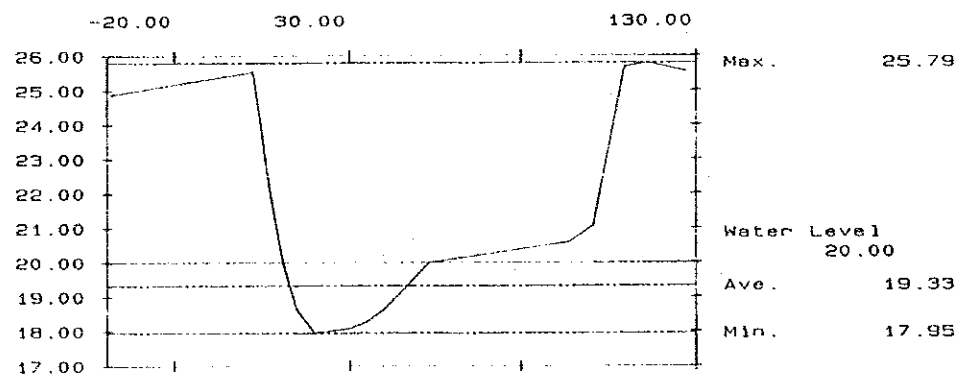
SECTION 5



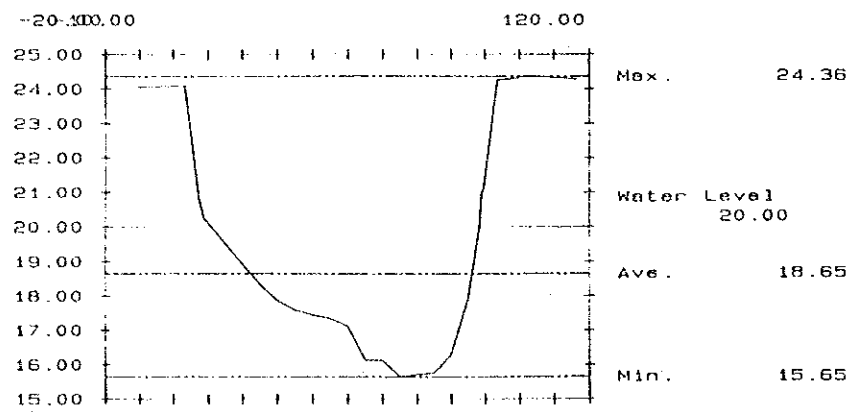
SECTION 9



SECTION 7

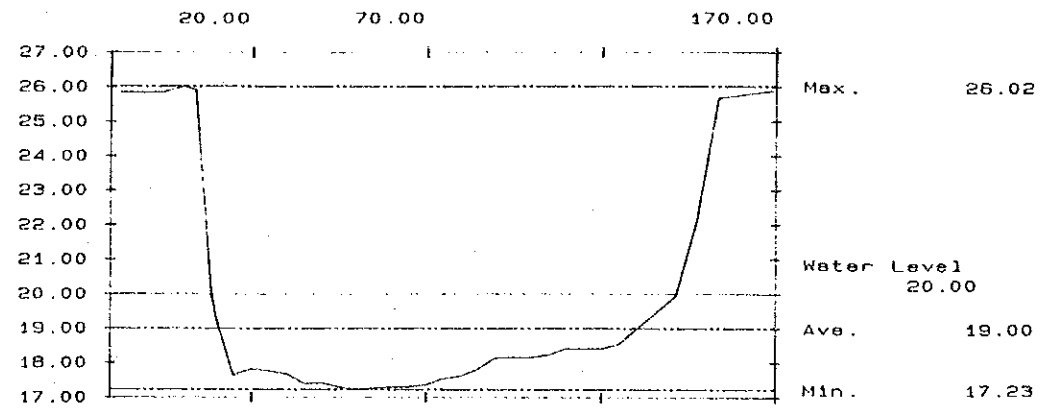


SECTION 8

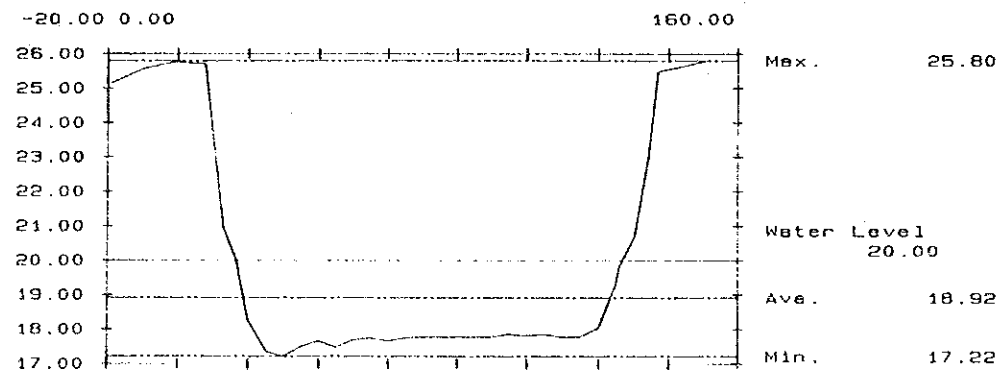


THE REPUBLIC OF VENEZUELA	
STUDY ON COMPREHENSIVE IMPROVEMENT	
OF THE APURE RIVER BASIN	
CROSS SECTION	
ADDITIONAL AREA 2/II	
PLAN NO. 129	SCALE H=1:1000 V=1:100
SURVEY DATE	JANUARY MARCH 1993
JICA	JAPAN INTERNATIONAL COOPERATION AGENCY

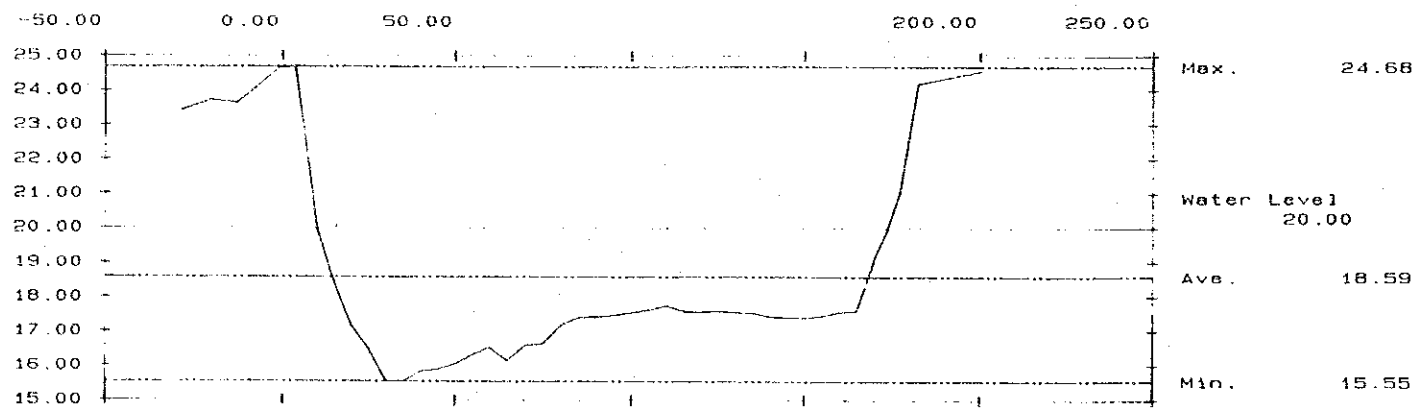
SECTION 10




SECTION 11

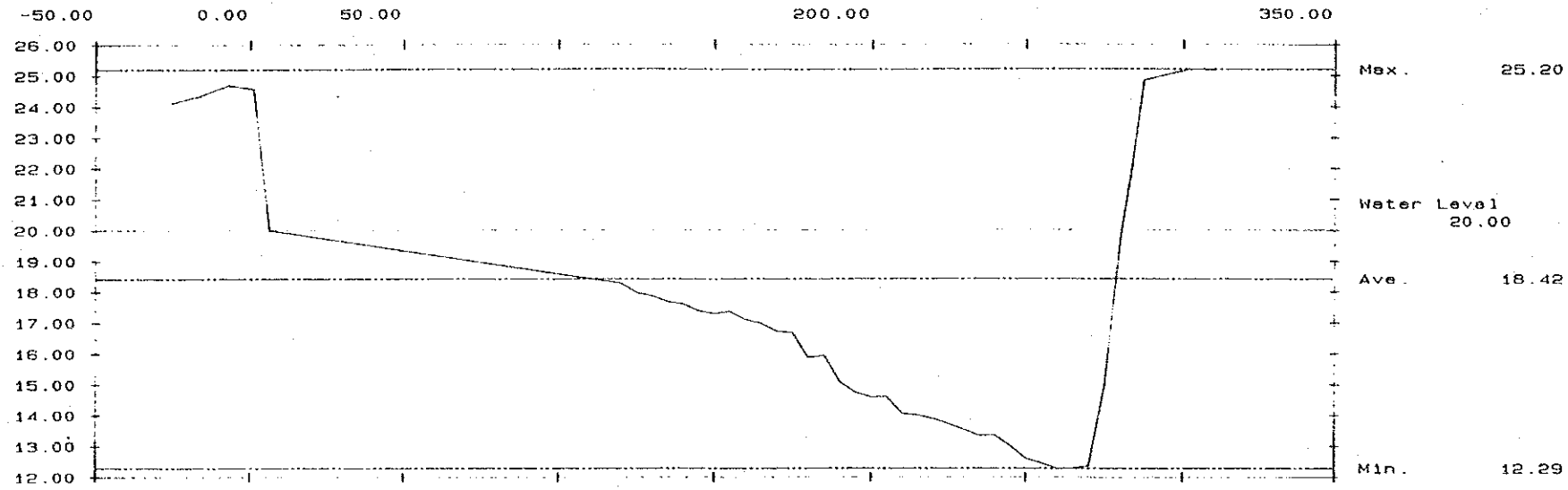


SECTION 12

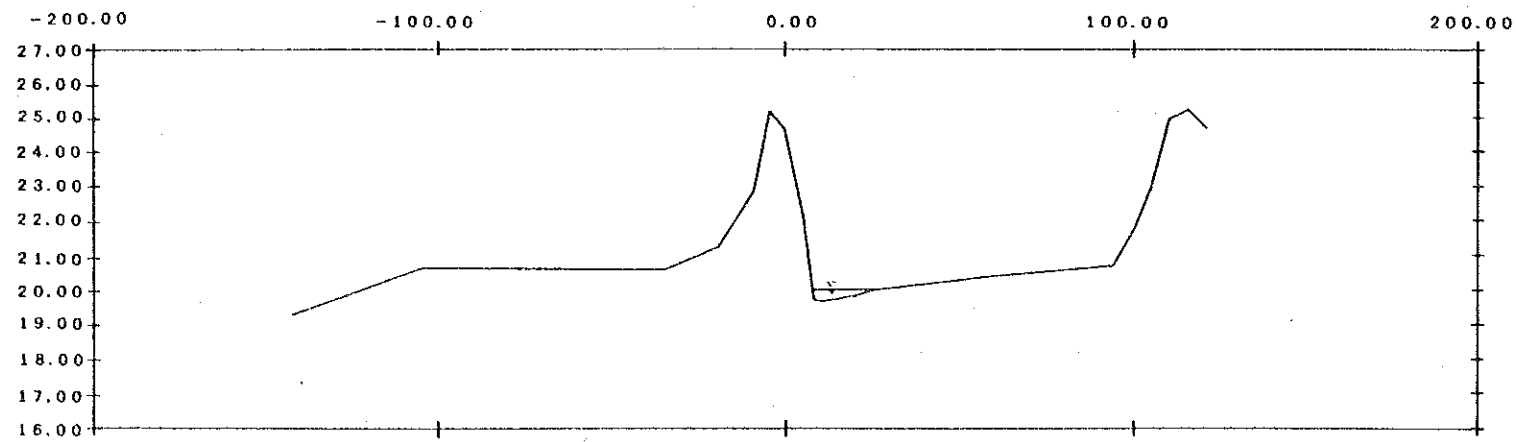



THE REPUBLIC OF VENEZUELA			
STUDY ON COMPREHENSIVE IMPROVEMENT			
OF THE APURE RIVER BASIN			
CROSS SECTION			
ADDITIONAL AREA 3/11			
PLAN NO.	130	SCALE	H:1:1000 V:1:100
SURVEY DATE	JANUARY MARCH 1993		
		JAPAN INTERNATIONAL	
COOPERATION AGENCY			

SECTION 14

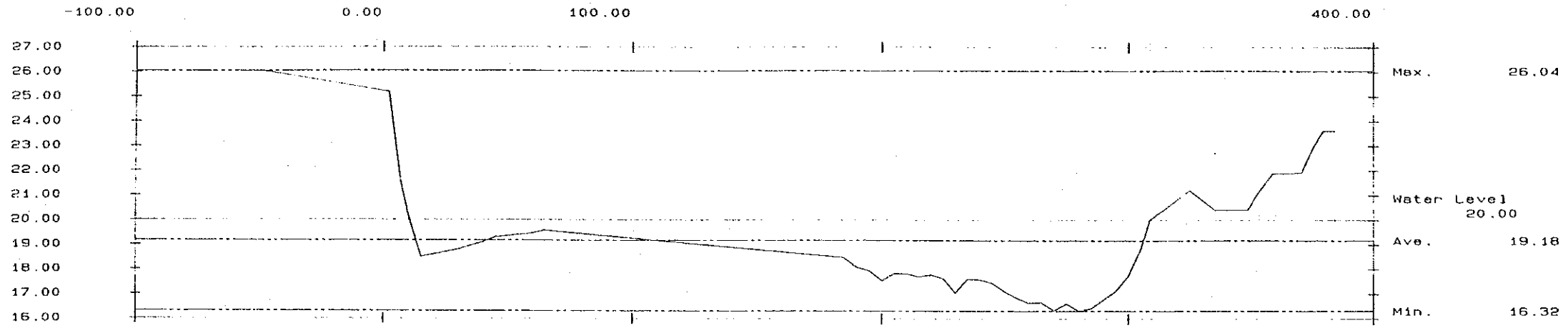


SECTION 15

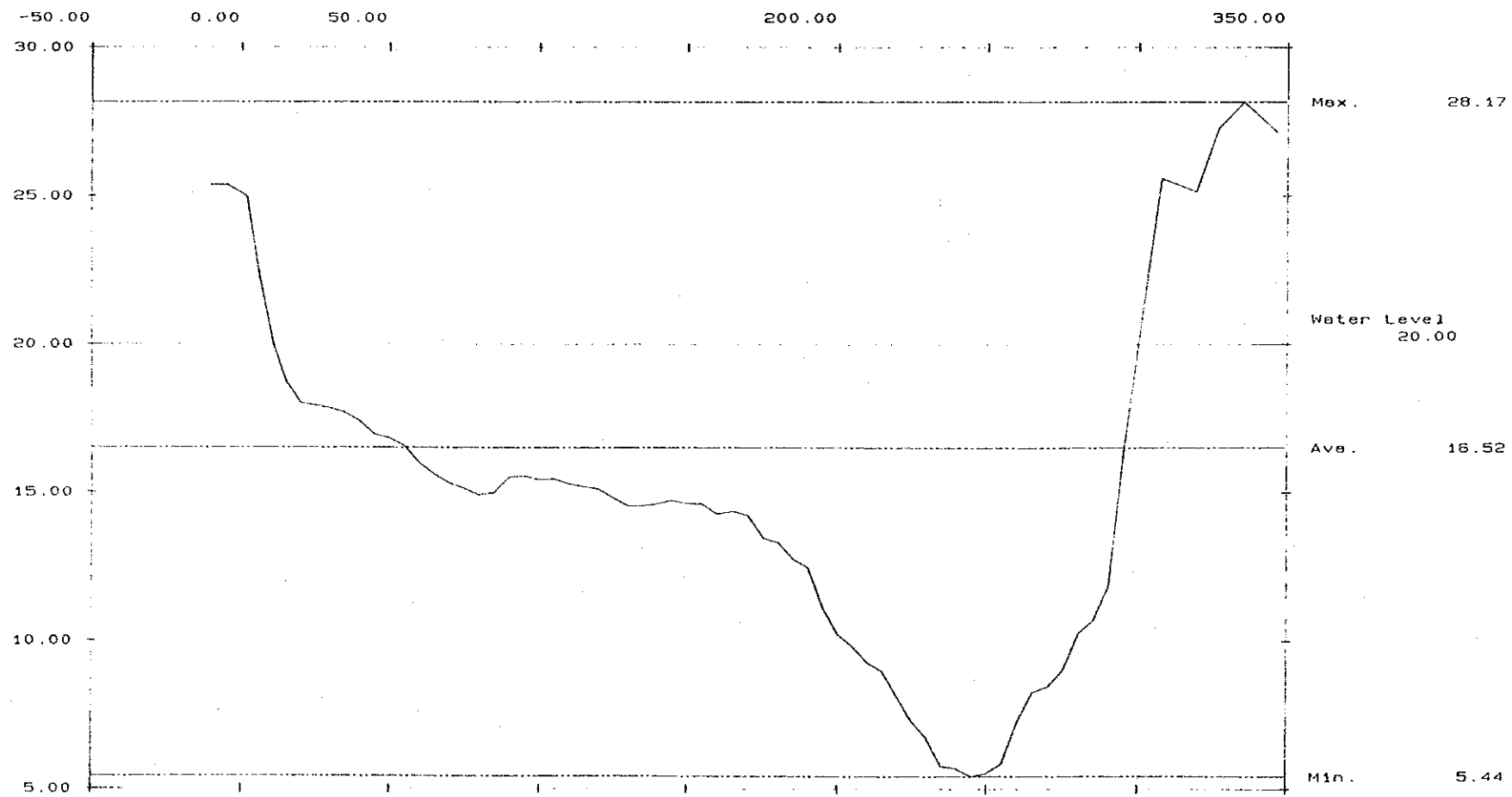


THE REPUBLIC OF VENEZUELA	
STUDY ON COMPREHENSIVE IMPROVEMENT OF THE APURE RIVER BASIN	
CROSS SECTION	
ADDITIONAL AREA 4/II	
PLAN NO. 131	SCALE H:1:1000 V:1:100
SURVEY DATE	JANUARY MARCH 1993
	JAPAN INTERNATIONAL COOPERATION AGENCY

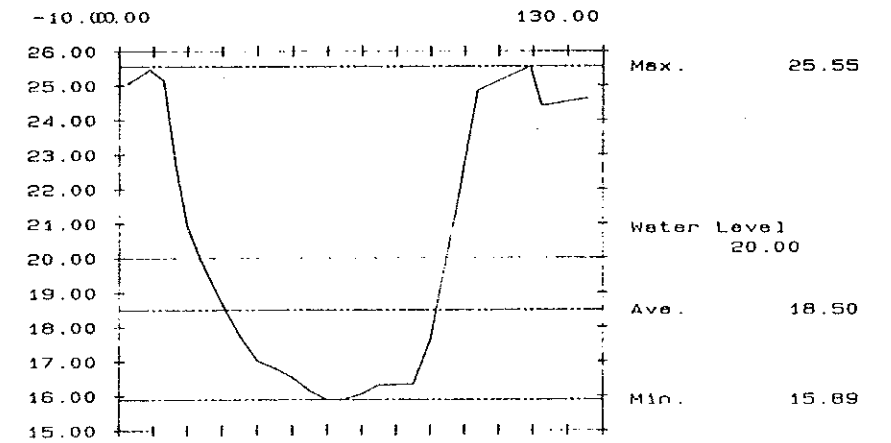
SECTION 16




SECTION 17

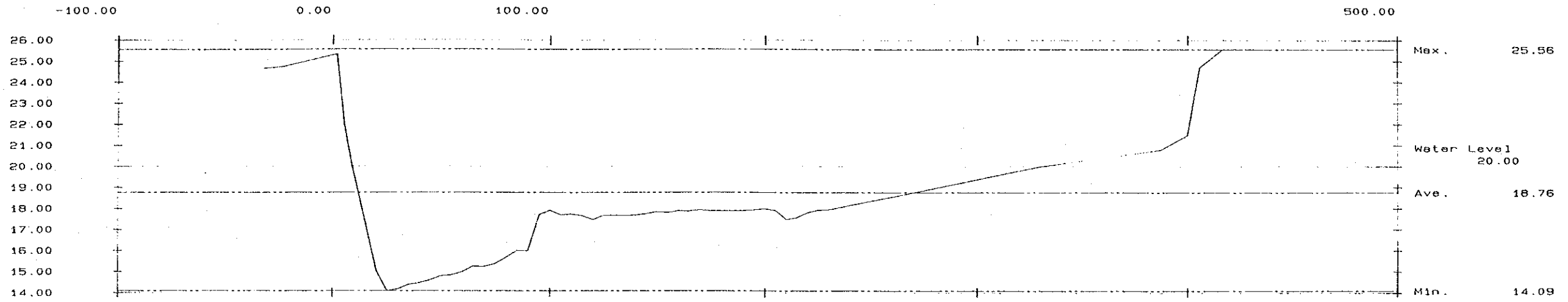


SECTION 18

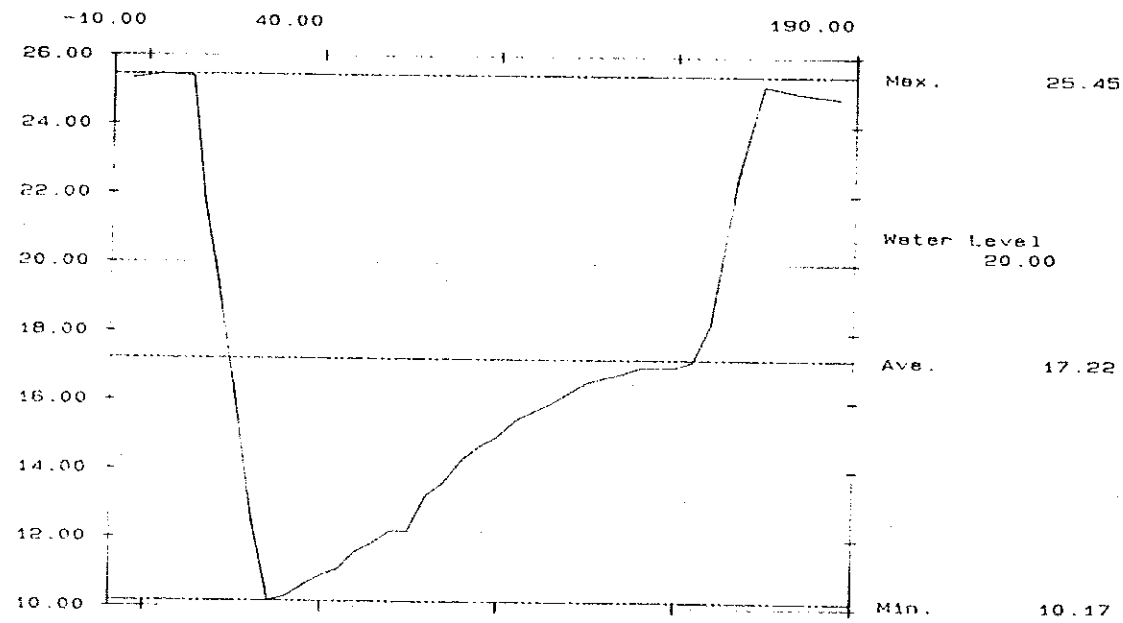


THE REPUBLIC OF VENEZUELA	
STUDY ON COMPREHENSIVE IMPROVEMENT	
OF THE APURE RIVER BASIN	
CROSS SECTION	
ADDITIONAL AREA 5/II	
PLAN NO. 132	SCALE H:1:1000 V:1:100
SURVEY DATE	JANUARY-MARCH 1993
 JAPAN INTERNATIONAL COOPERATION AGENCY	

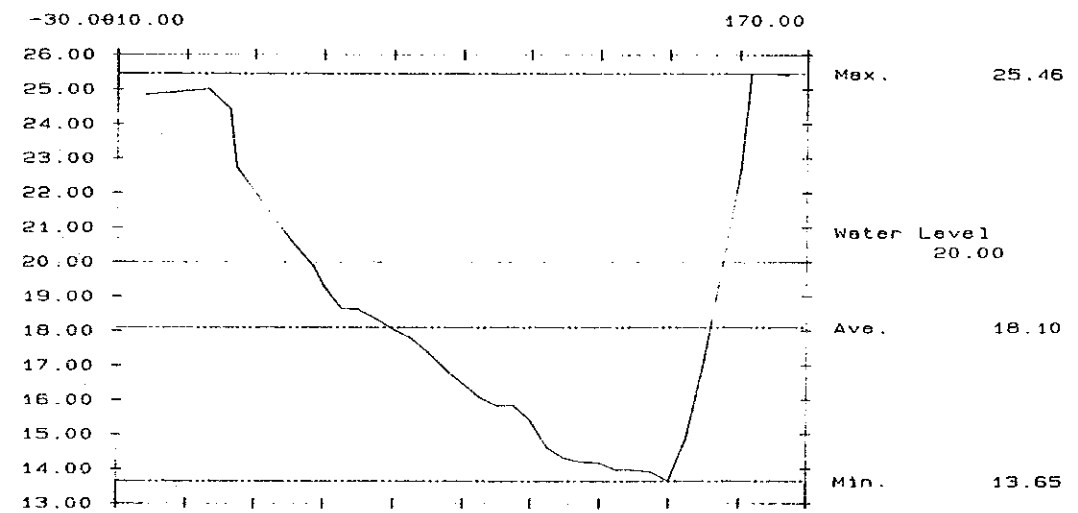
SECTION 19




SECTION 20

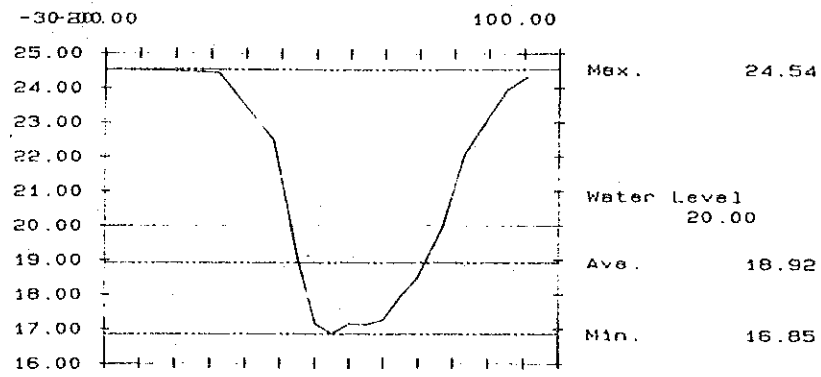


SECTION 21

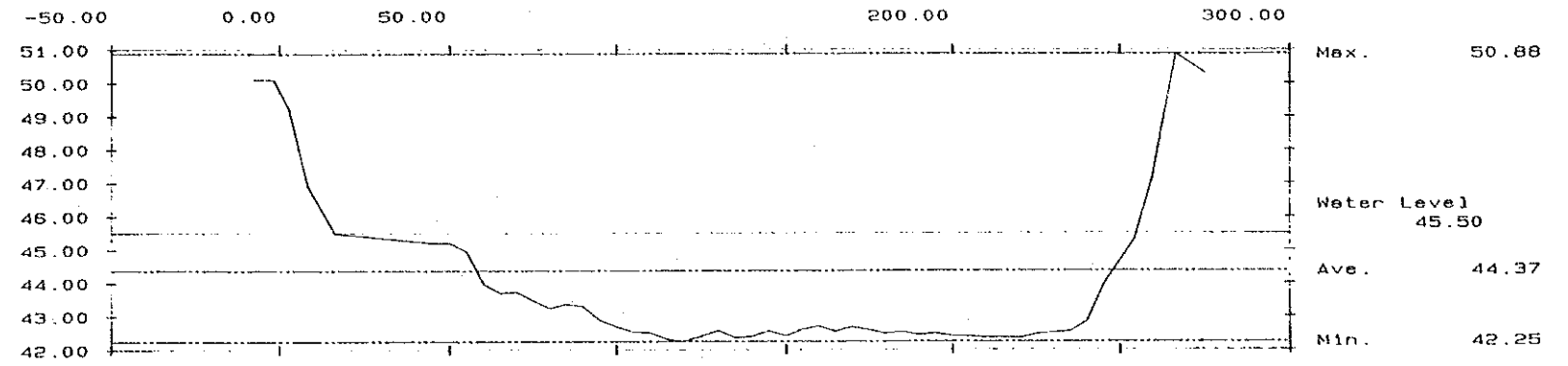


THE REPUBLIC OF VENEZUELA	
STUDY ON COMPREHENSIVE IMPROVEMENT	
OF THE APURE RIVER BASIN	
CROSS SECTION	
ADDITIONAL AREA 6/II	
PLAN NO. 133	SCALE H:1:1000 V:1:100
SURVEY DATE	JANUARY MARCH 1993
	JAPAN INTERNATIONAL COOPERATION AGENCY

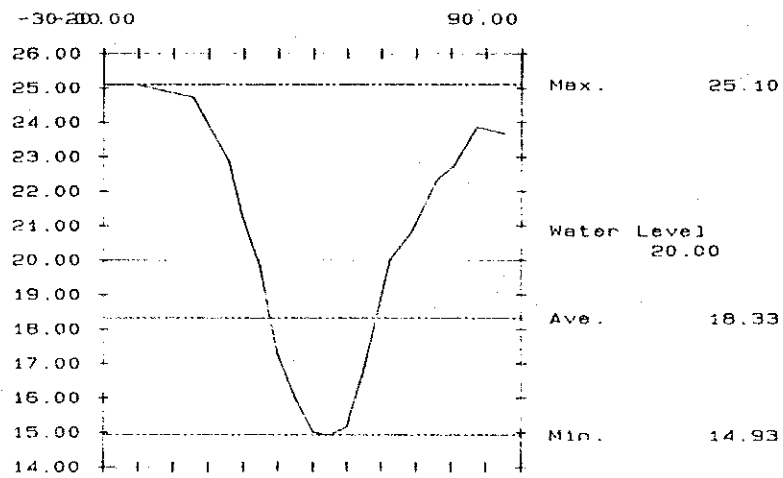
SECTION 22



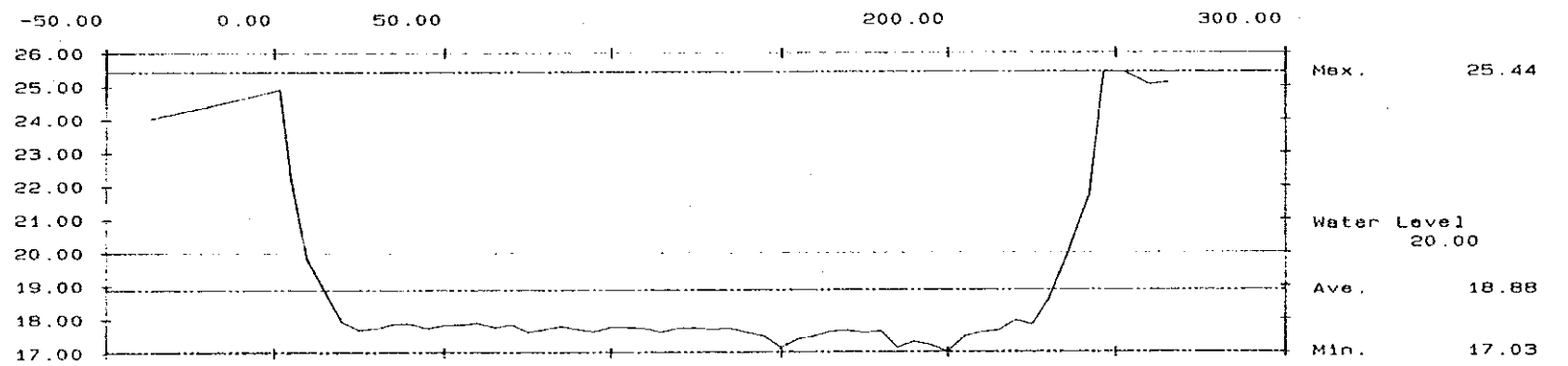
SECTION 25



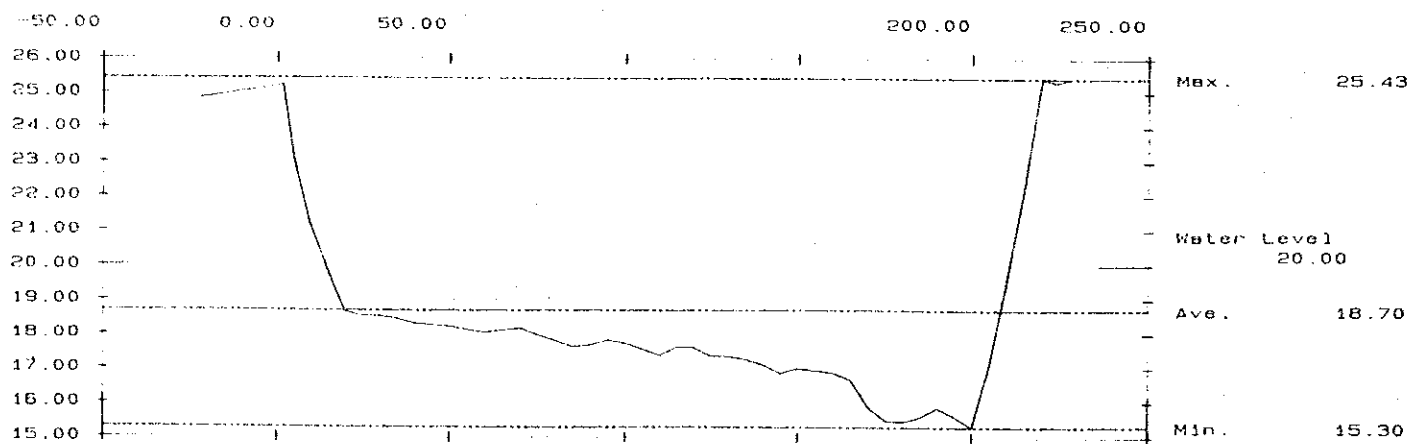
SECTION 23




SECTION 26

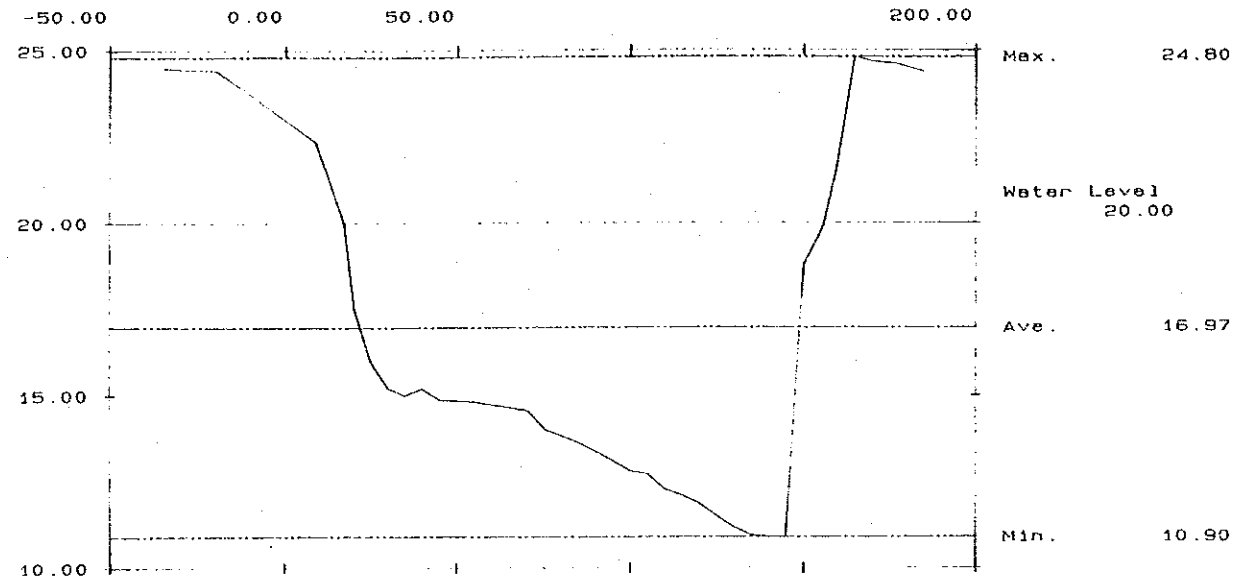


SECTION 24

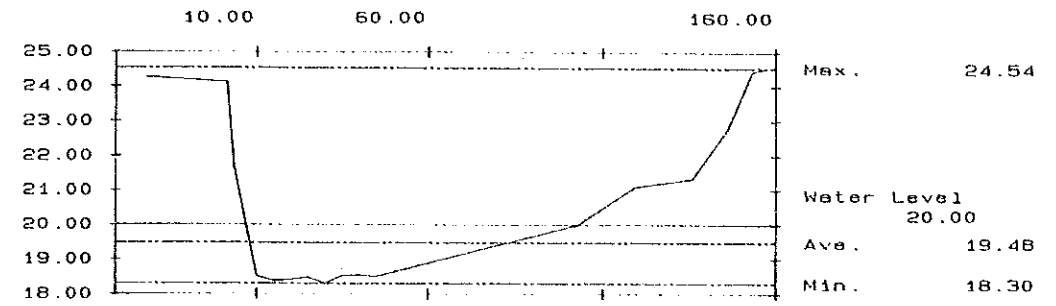


THE REPUBLIC OF VENEZUELA	
STUDY ON COMPREHENSIVE IMPROVEMENT	
OF THE APURE RIVER BASIN	
CROSS SECTION	
ADDITIONAL AREA 7/11	
PLAN NO. 134	SCALE H:1:1000 V:1:100
SURVEY DATE	JANUARY MARCH 1993
 JAPAN INTERNATIONAL COOPERATION AGENCY	

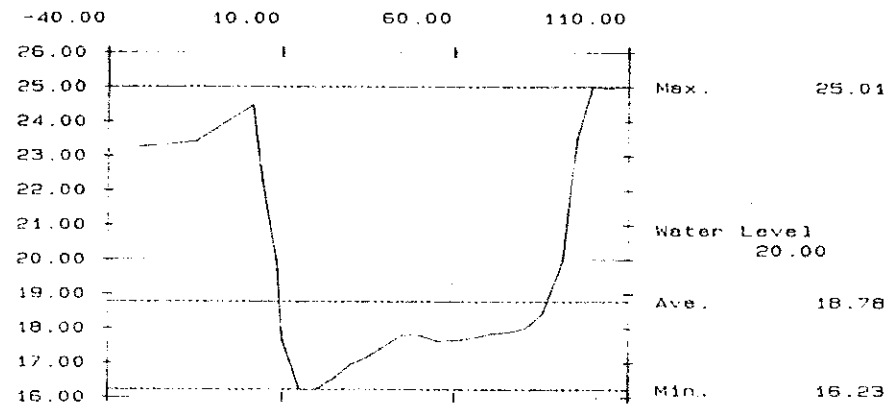
SECTION 27



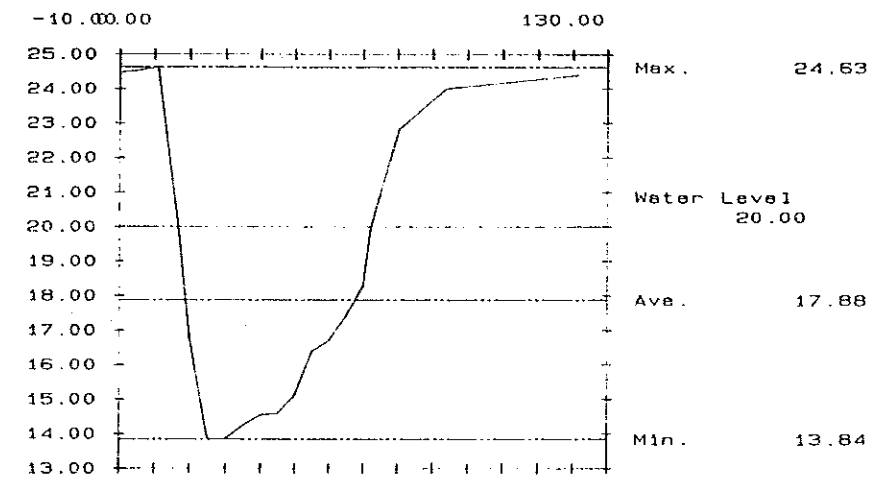
SECTION 30



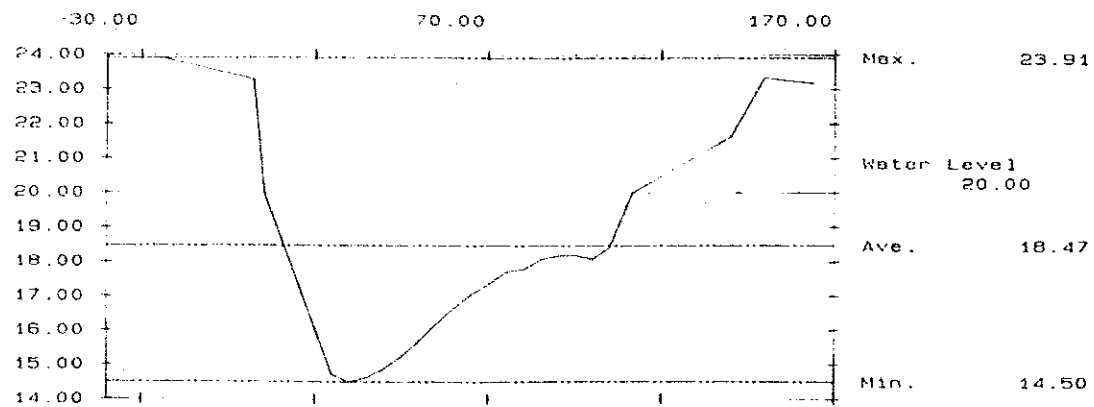
SECTION 28




SECTION 31

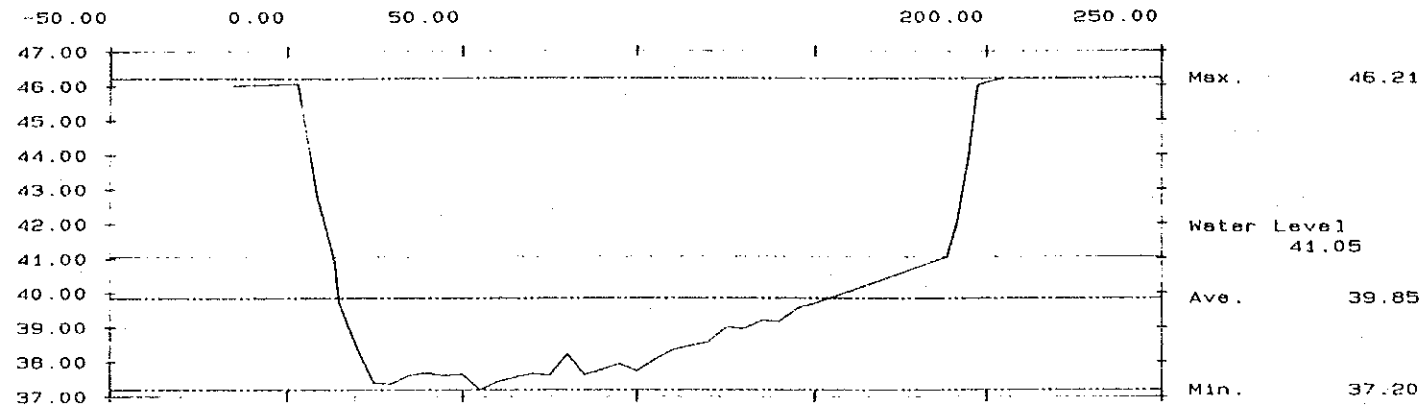


SECTION 29

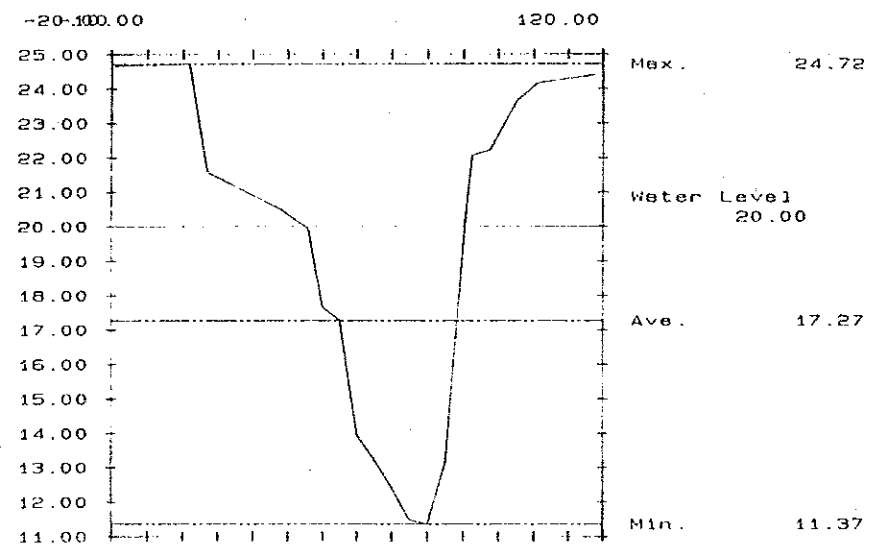


THE REPUBLIC OF VENEZUELA	
STUDY ON COMPREHENSIVE IMPROVEMENT	
OF THE APURE RIVER BASIN	
CROSS SECTION	
ADDITIONAL AREA 8/II	
PLAN NO. 135	SCALE H:1:1000 V:1:100
SURVEY DATE	JANUARY-MARCH 1993
 JAPAN INTERNATIONAL COOPERATION AGENCY	

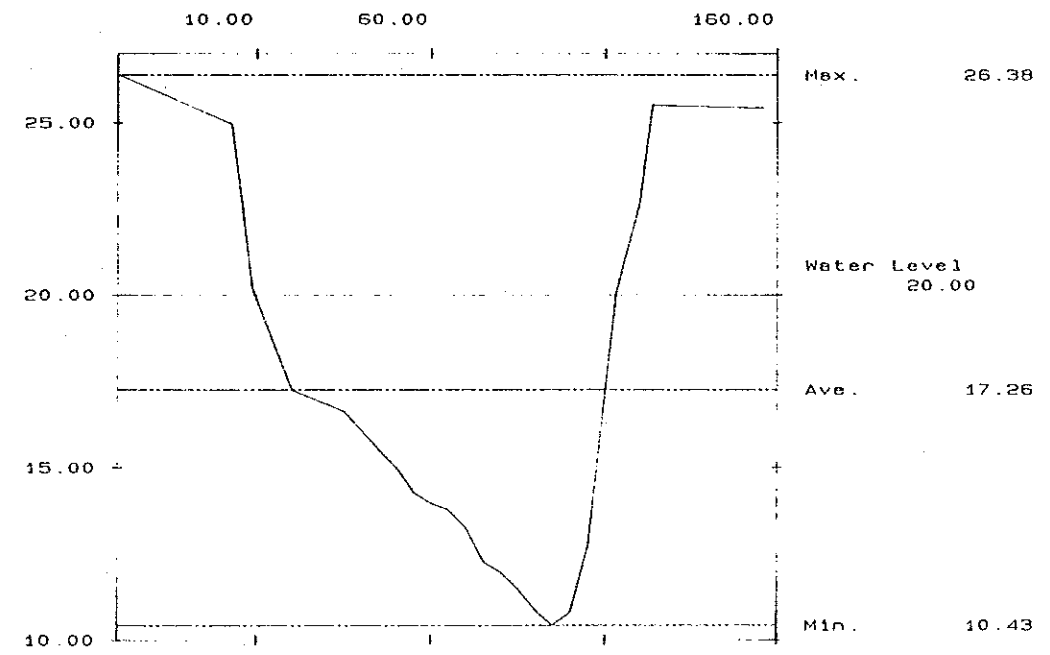
SECTION 32



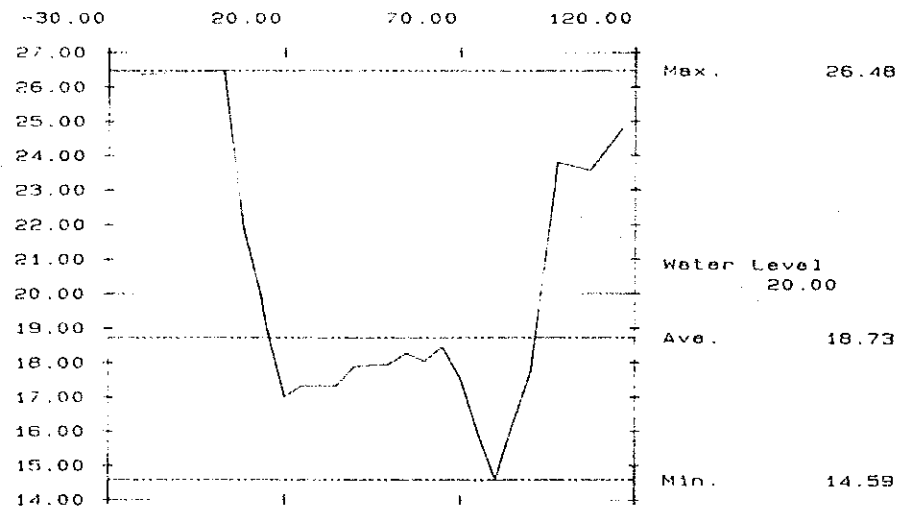
SECTION 33



SECTION 36



SECTION 34



THE REPUBLIC OF VENEZUELA
STUDY ON COMPREHENSIVE IMPROVEMENT
OF THE APURE RIVER BASIN

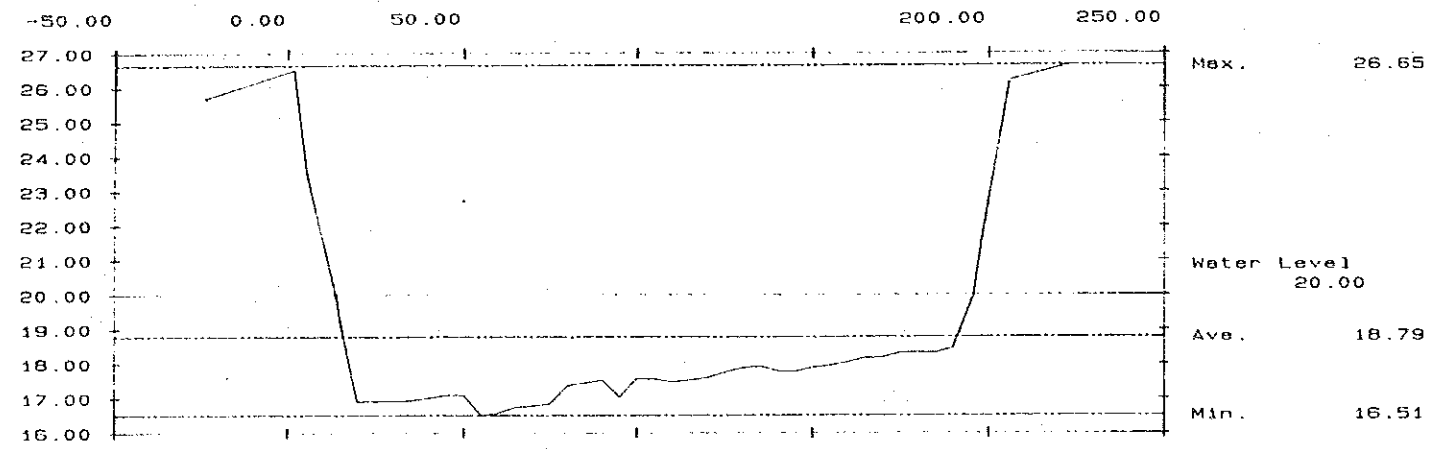
CROSS SECTION

ADDITIONAL AREA 9/II

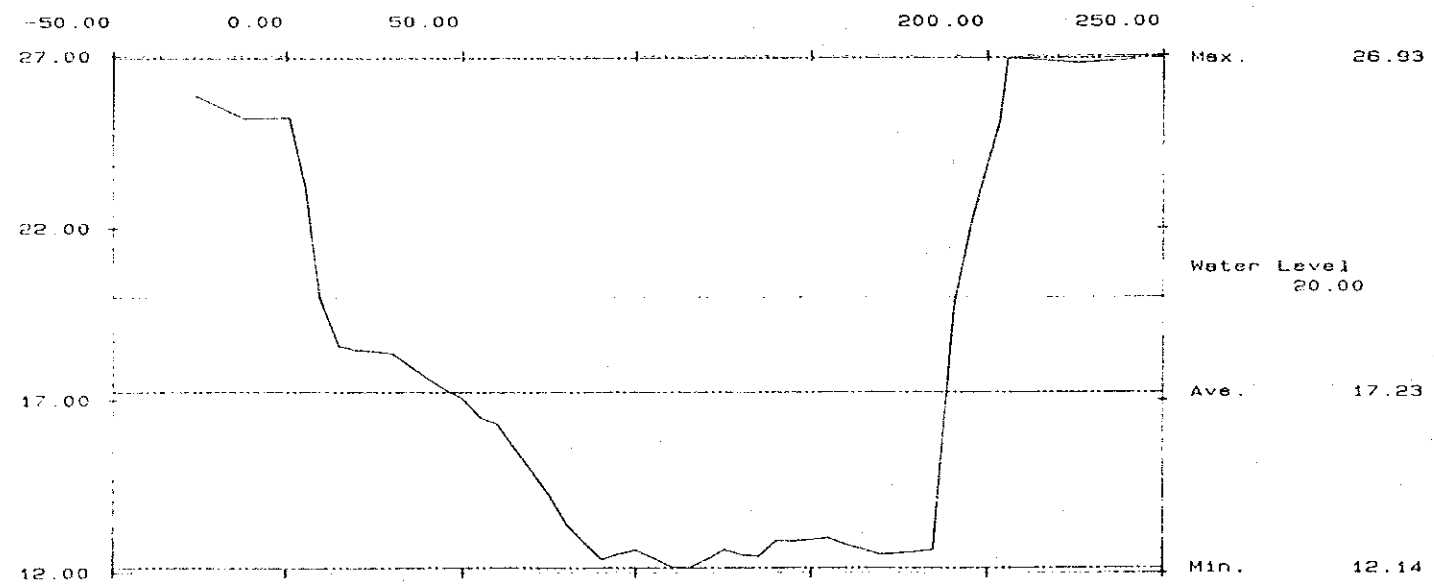
PLAN NO.	136	SCALE	H:1:1000 V:1:100
SURVEY DATE	JANUARY MARCH 1993		


JICA JAPAN INTERNATIONAL
COOPERATION AGENCY

SECTION 37



SECTION 38



THE REPUBLIC OF VENEZUELA	
STUDY ON COMPREHENSIVE IMPROVEMENT	
OF THE APURE RIVER BASIN	
CROSS SECTION	
ADDITIONAL AREA 10/11	
PLAN NO. 137	SCALE H:1:1000 V:1:100
SURVEY DATE	JANUARY-MARCH 1993
	JAPAN INTERNATIONAL COOPERATION AGENCY

PART II

RIVER COURSE SHIFTING BY 1960-66 AND 1989 TOPO MAPS

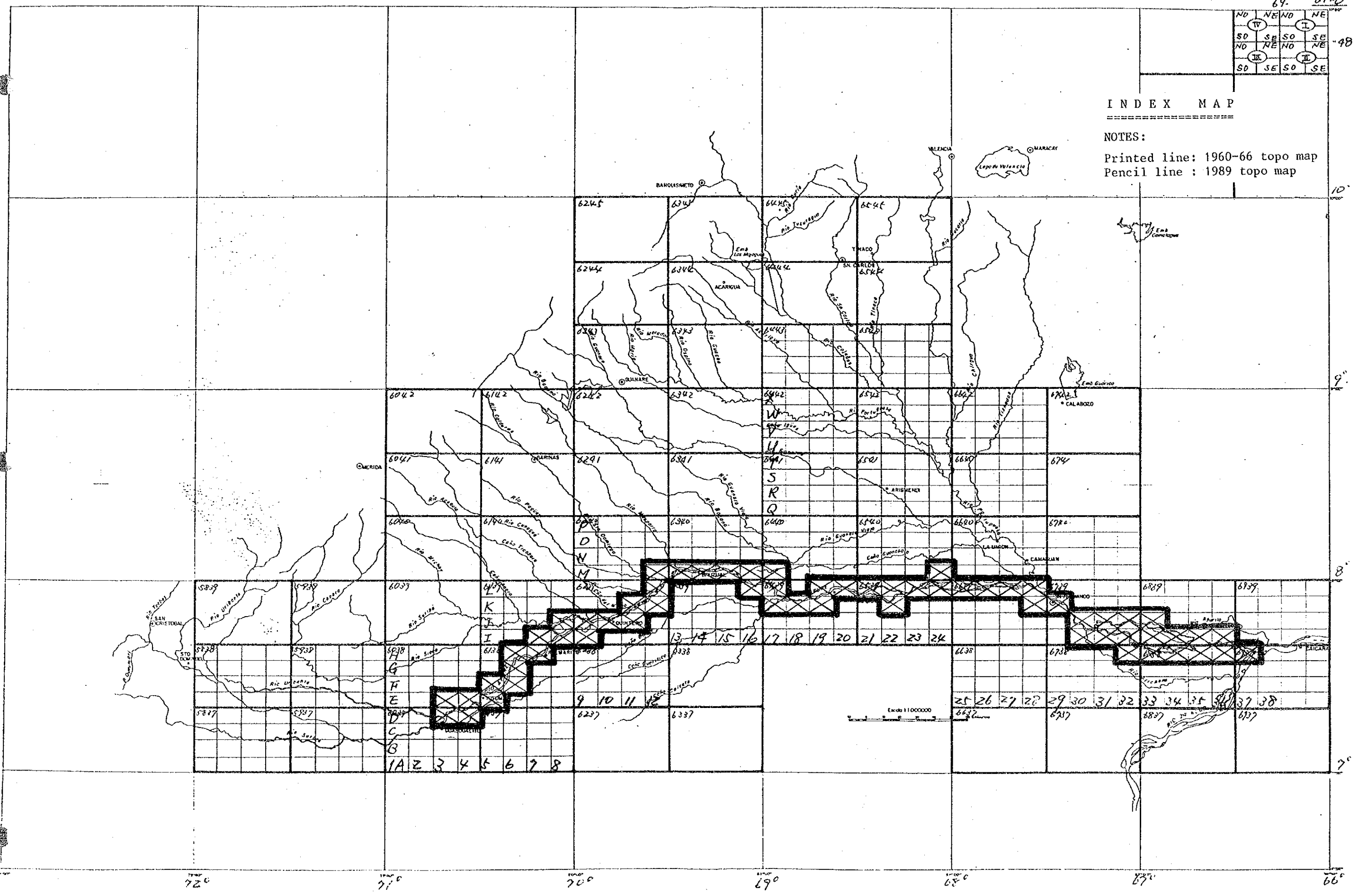
69. 6948

ND	NE	ND	NE
TV		TV	
SO	SE	SO	SE
ND	NE	ND	NE
SO	SE	SO	SE

48

INDEX MAP

NOTES:
 Printed line: 1960-66 topo map
 Pencil line: 1989 topo map

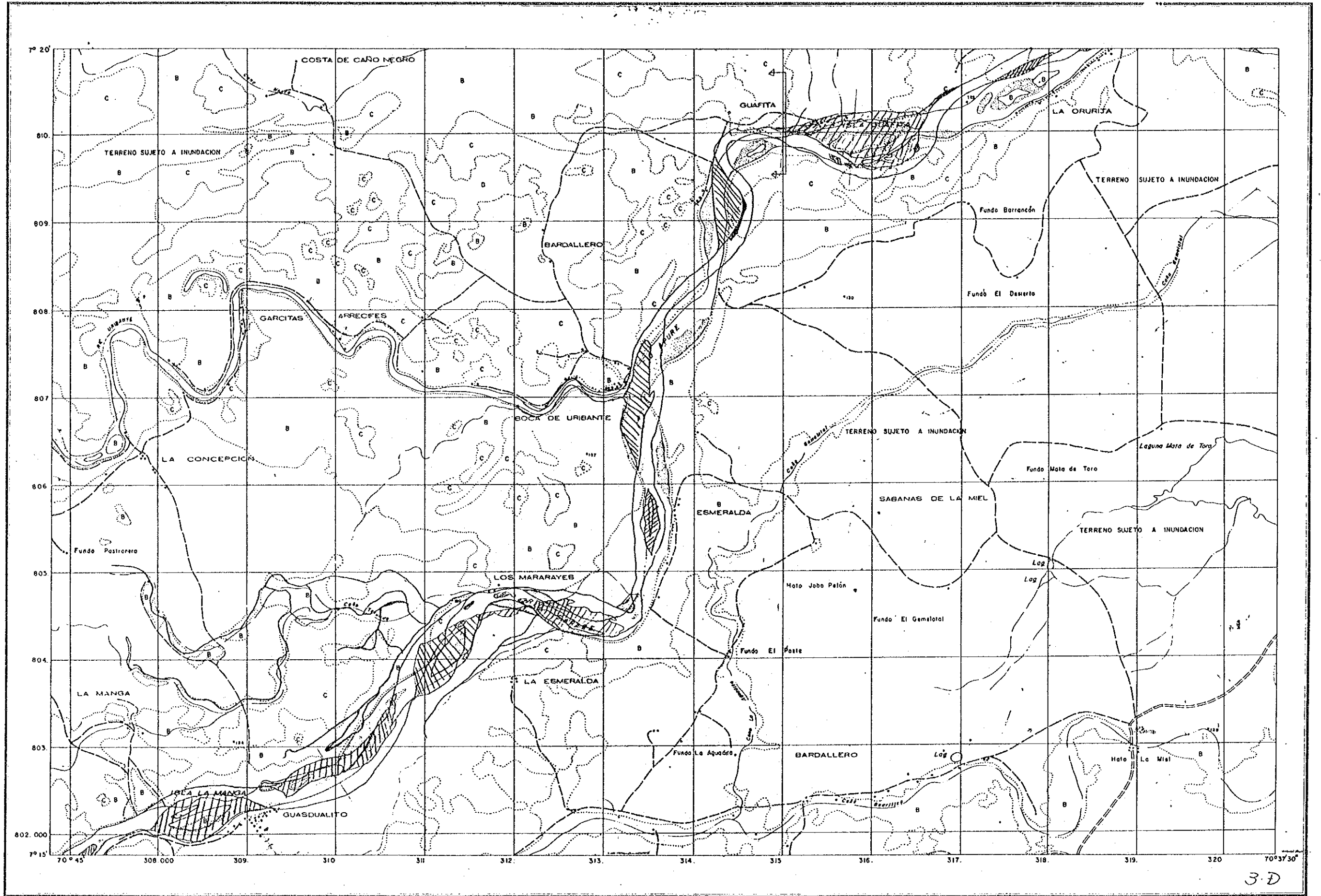




BARDALLERO

EDICIÓN QCN
1973

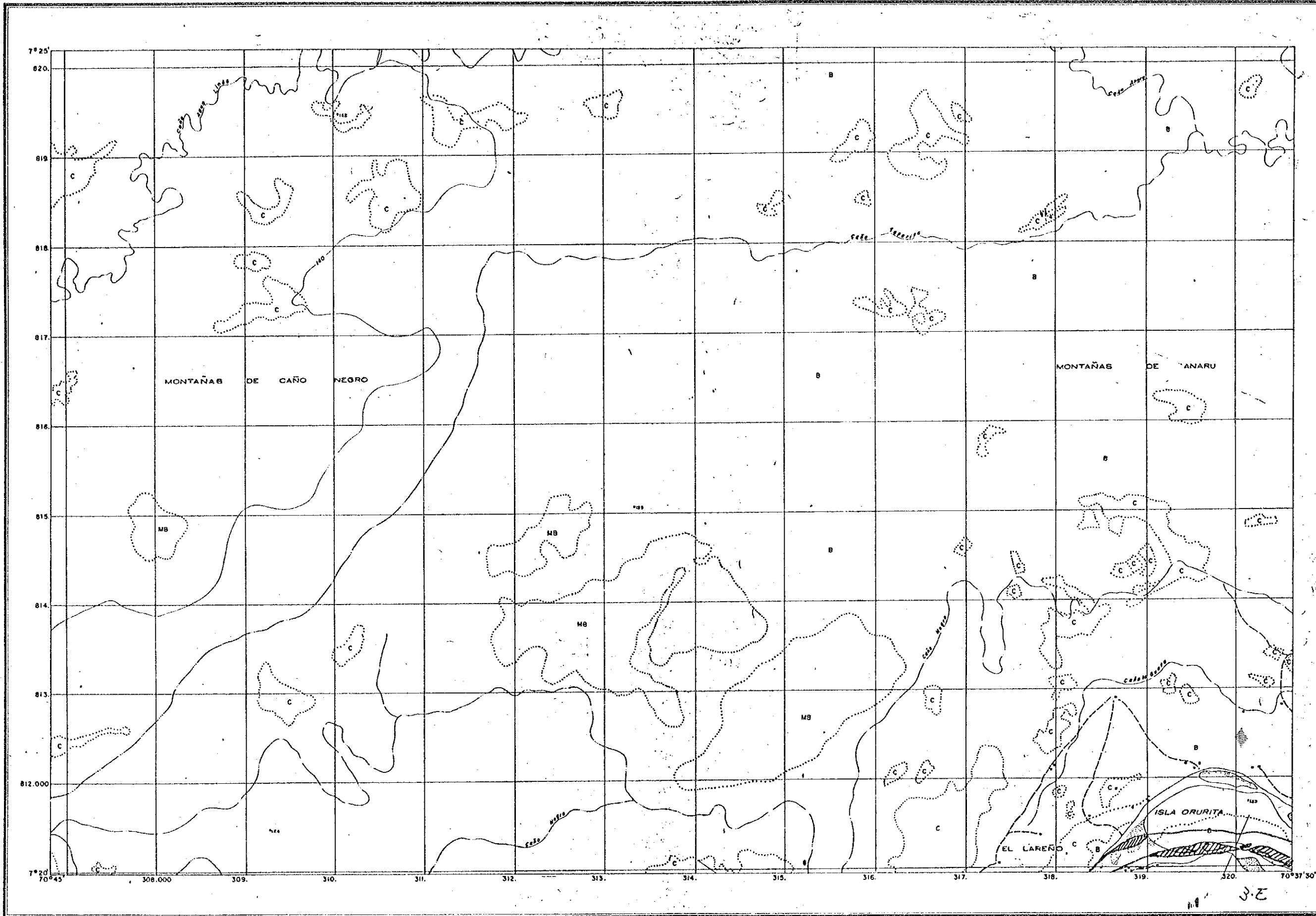
LA REFERENCIA DE ESTE MAPA ES
6037- I -NO



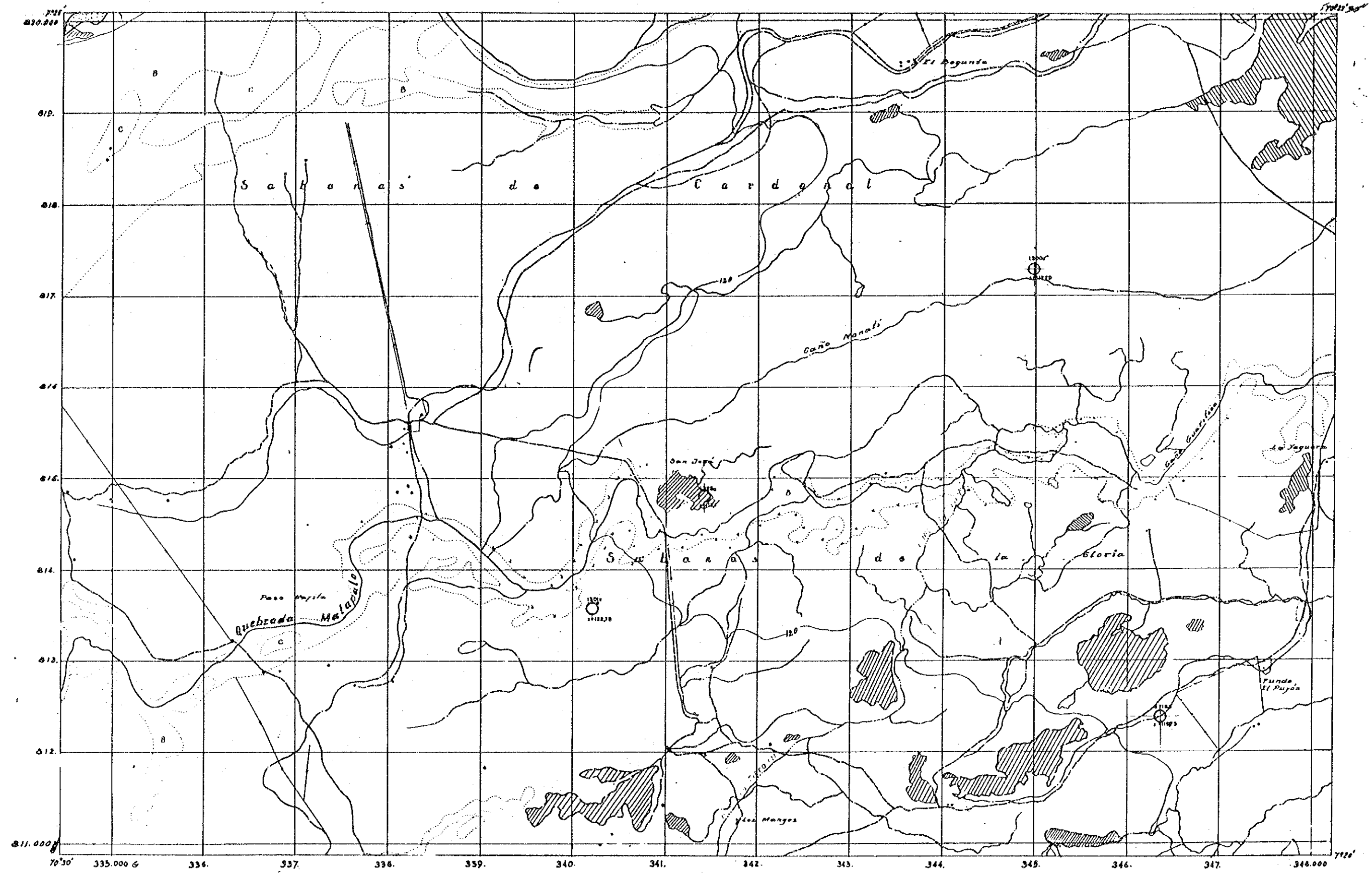
3-D



EL LAREÑO



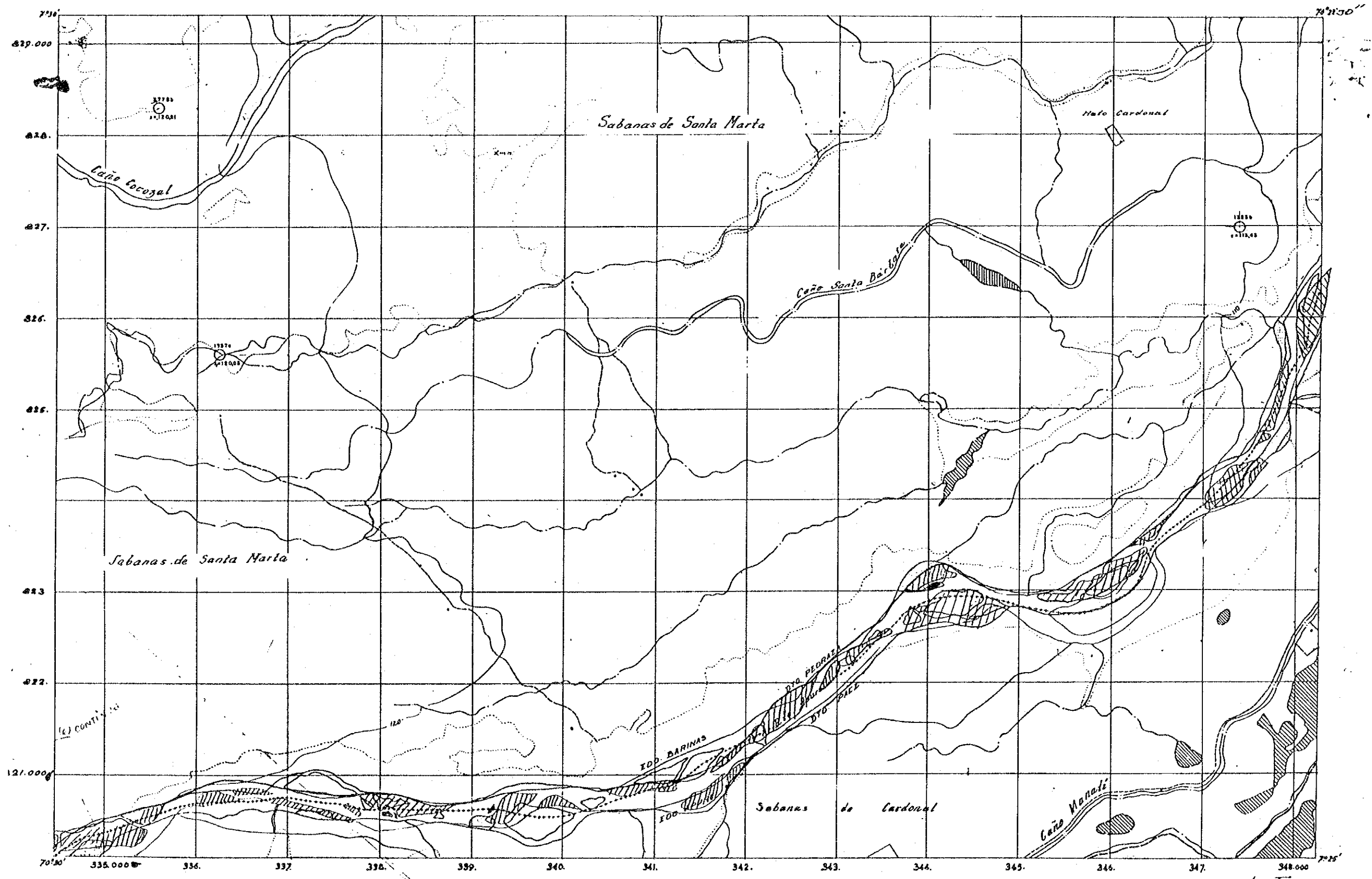
PARIS, FRANCE
1 10-10-51
6138-III-50



S.E

PARINAS-GUINE
(18-19-2)

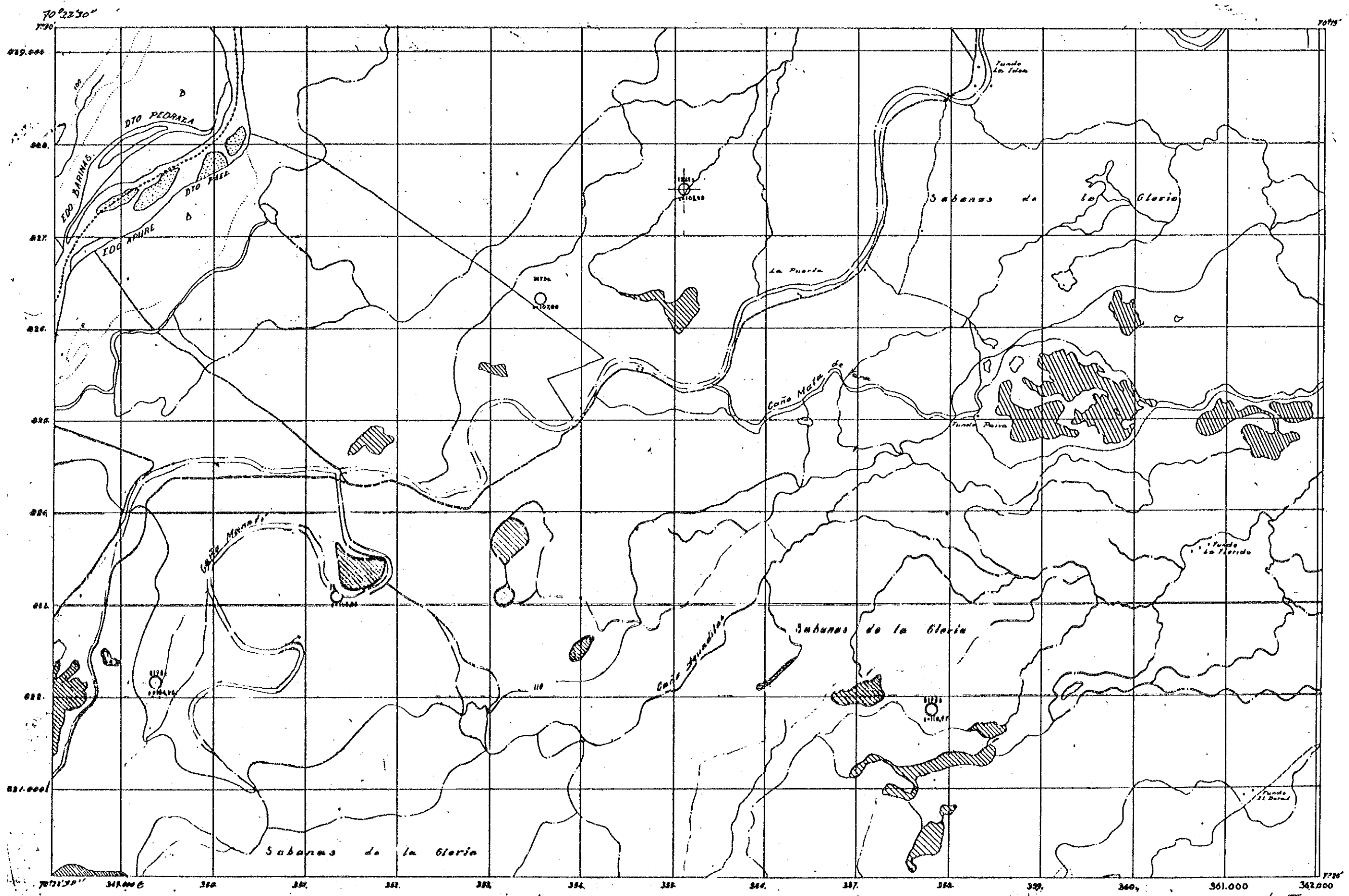
6138-III-NO



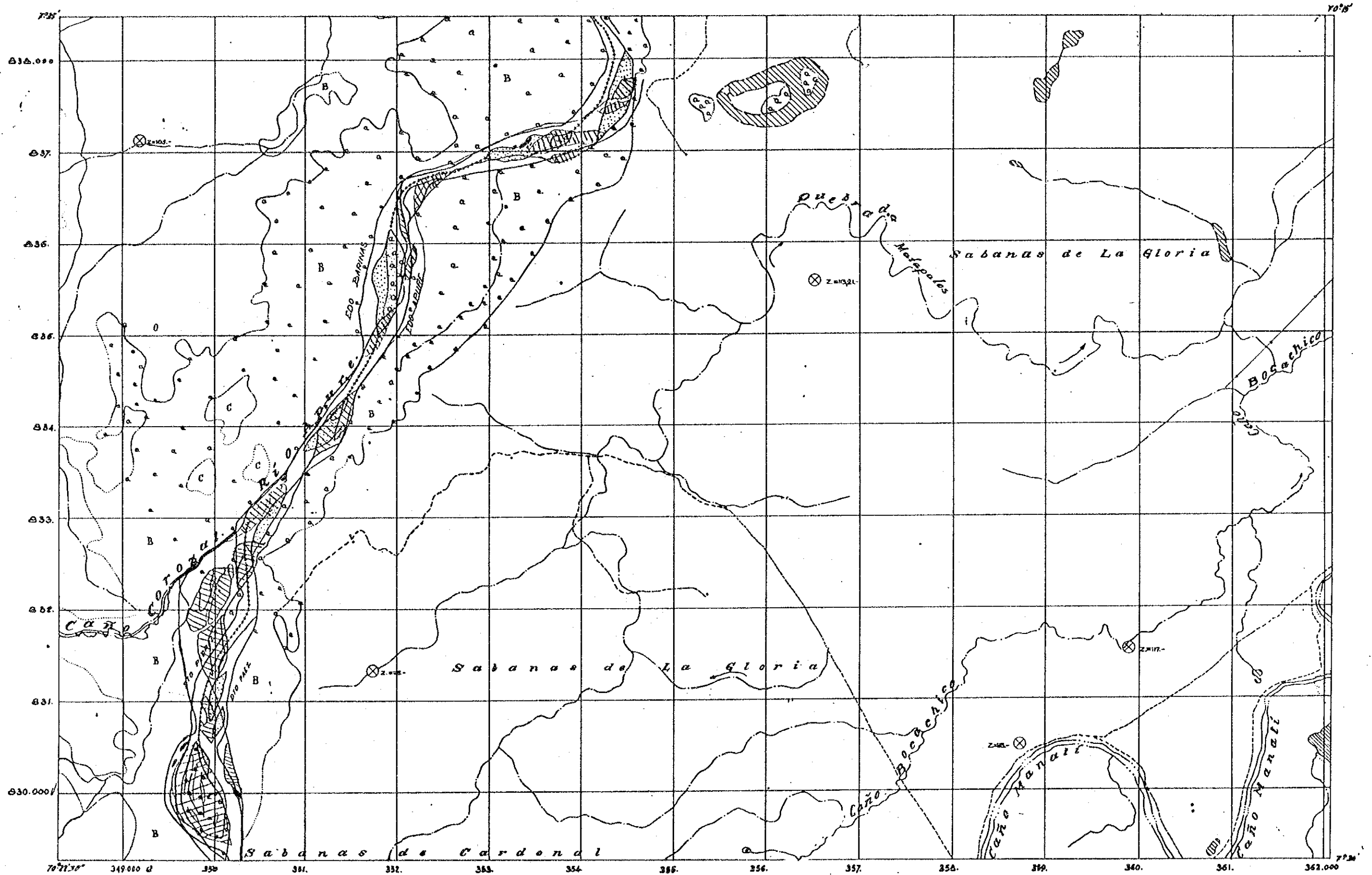
5.F

BORINAS - OPURE
(NB-19-2)

6138-III-NE



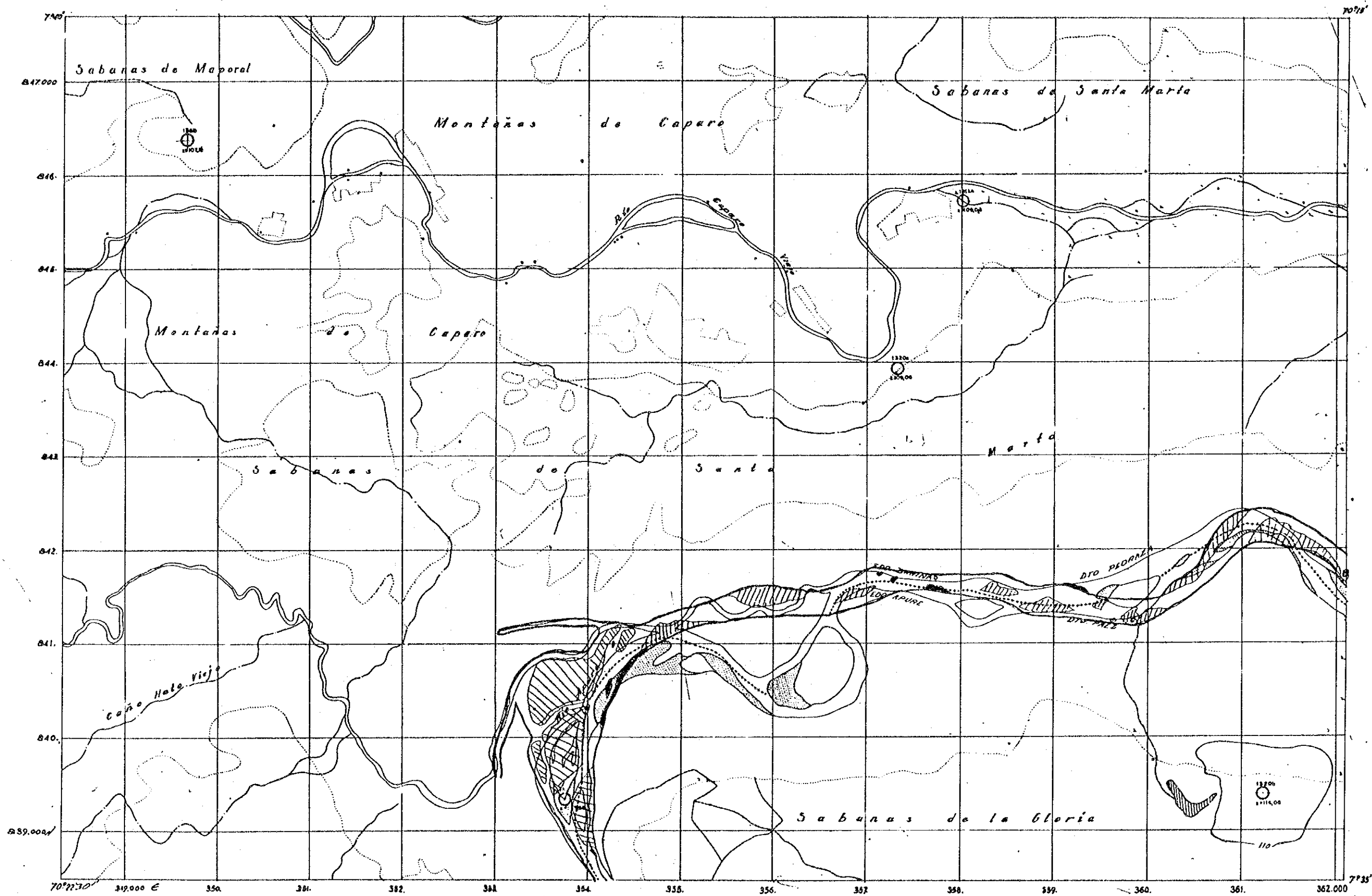
6.F
52



6.G

PARINAS-APURE
(NB-19-2)

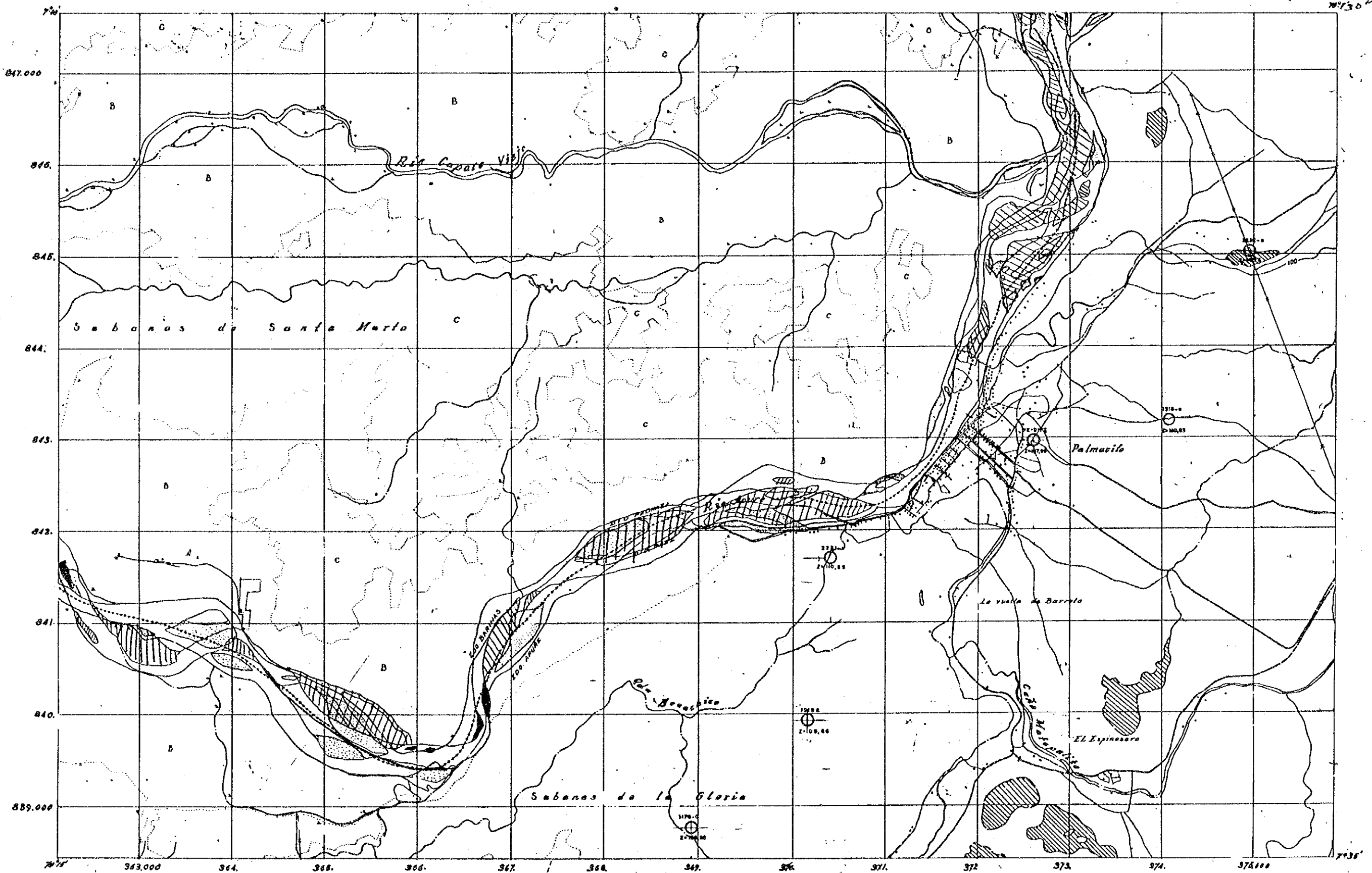
6138-IV-NE



6.H

REPÚBLICA DE VENEZUELA
MINISTERIO DE OBRAS PÚBLICAS
CARTOGRAFIA NACIONAL
ESCALA 1:25,000
1.963

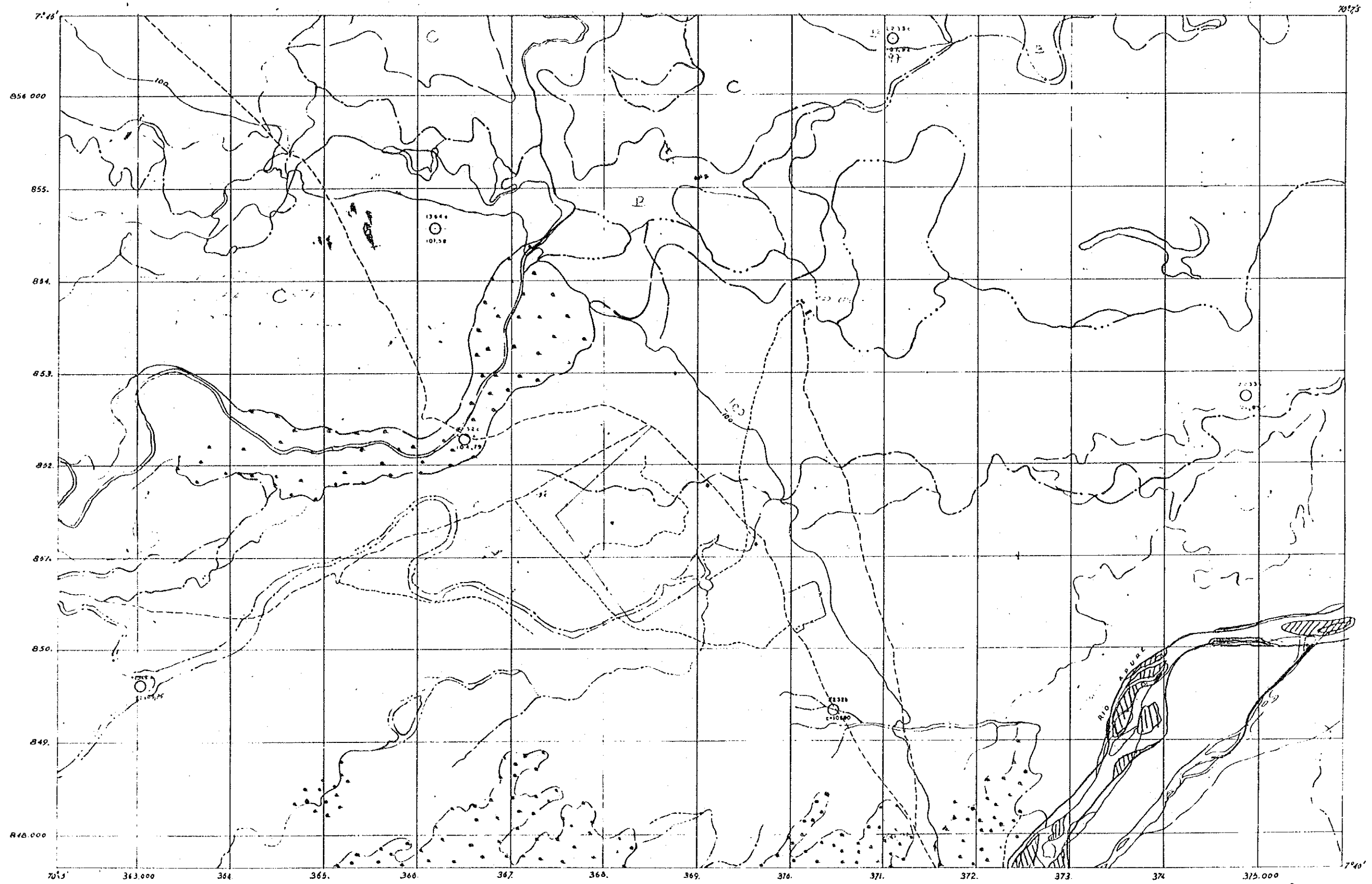
6138-1-NO



7-H

REPUBLICA DE VENEZUELA
MINISTERIO DE OBRAS PUBLICAS
CARTOGRAFIA NACIONAL
ESCALA 1:25.000
1.960

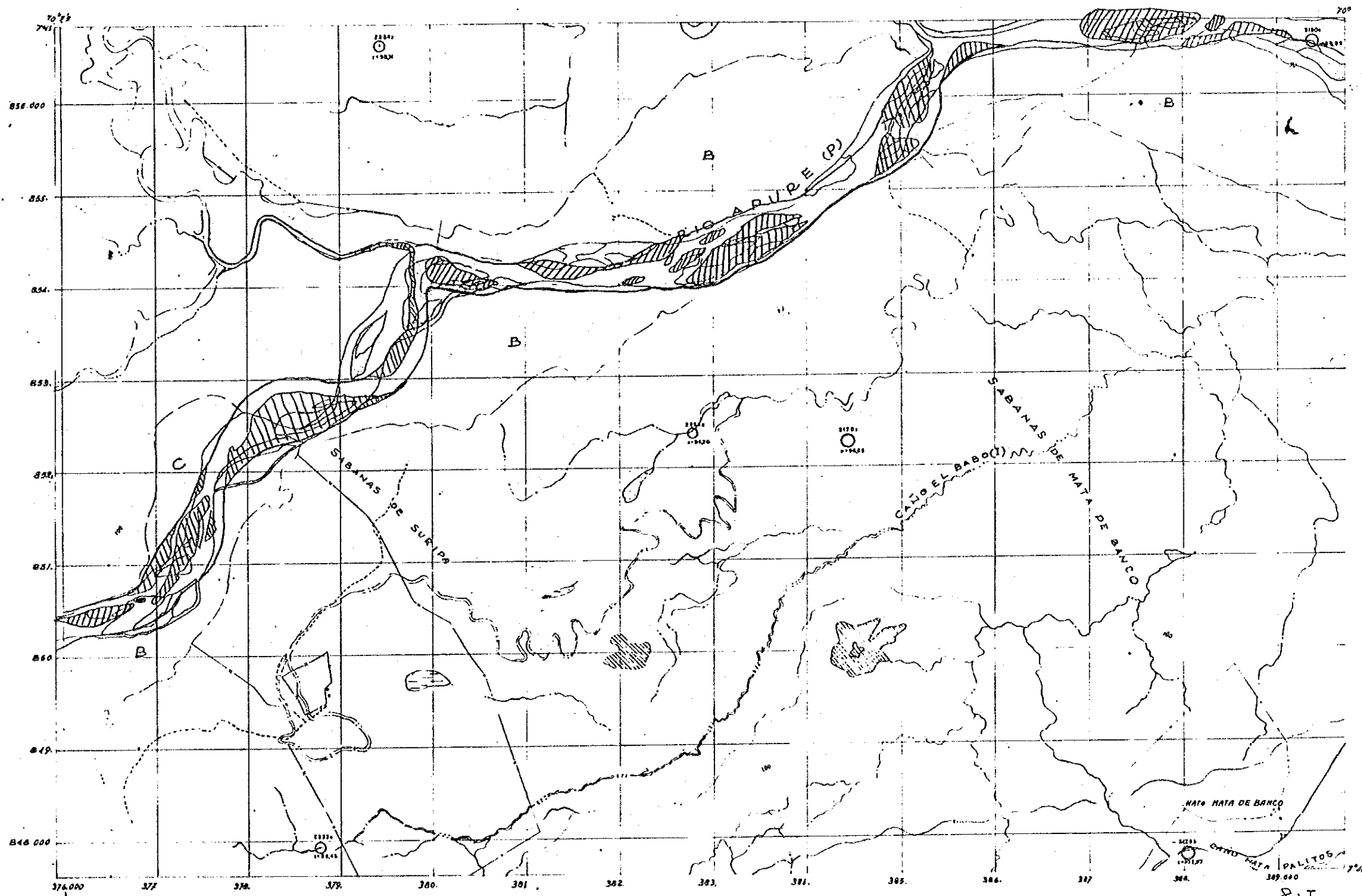
6139-11-50



7.1

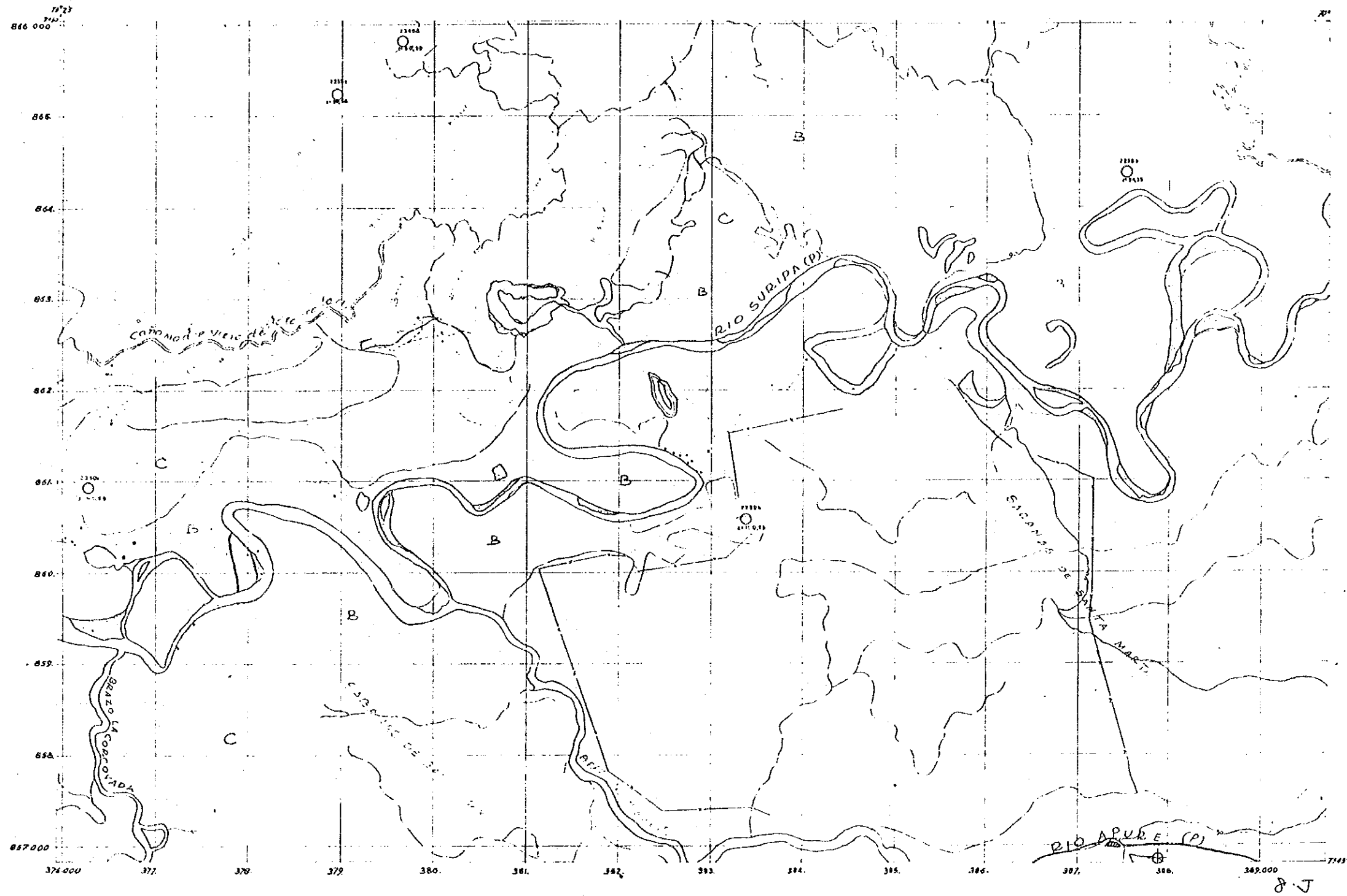
REPUBLICA DE VENEZUELA
MINISTERIO DE OBRAS PUBLICAS
CARTOGRAFIA NACIONAL
ESCALA 1:25.000
1.963

6139-11-SE



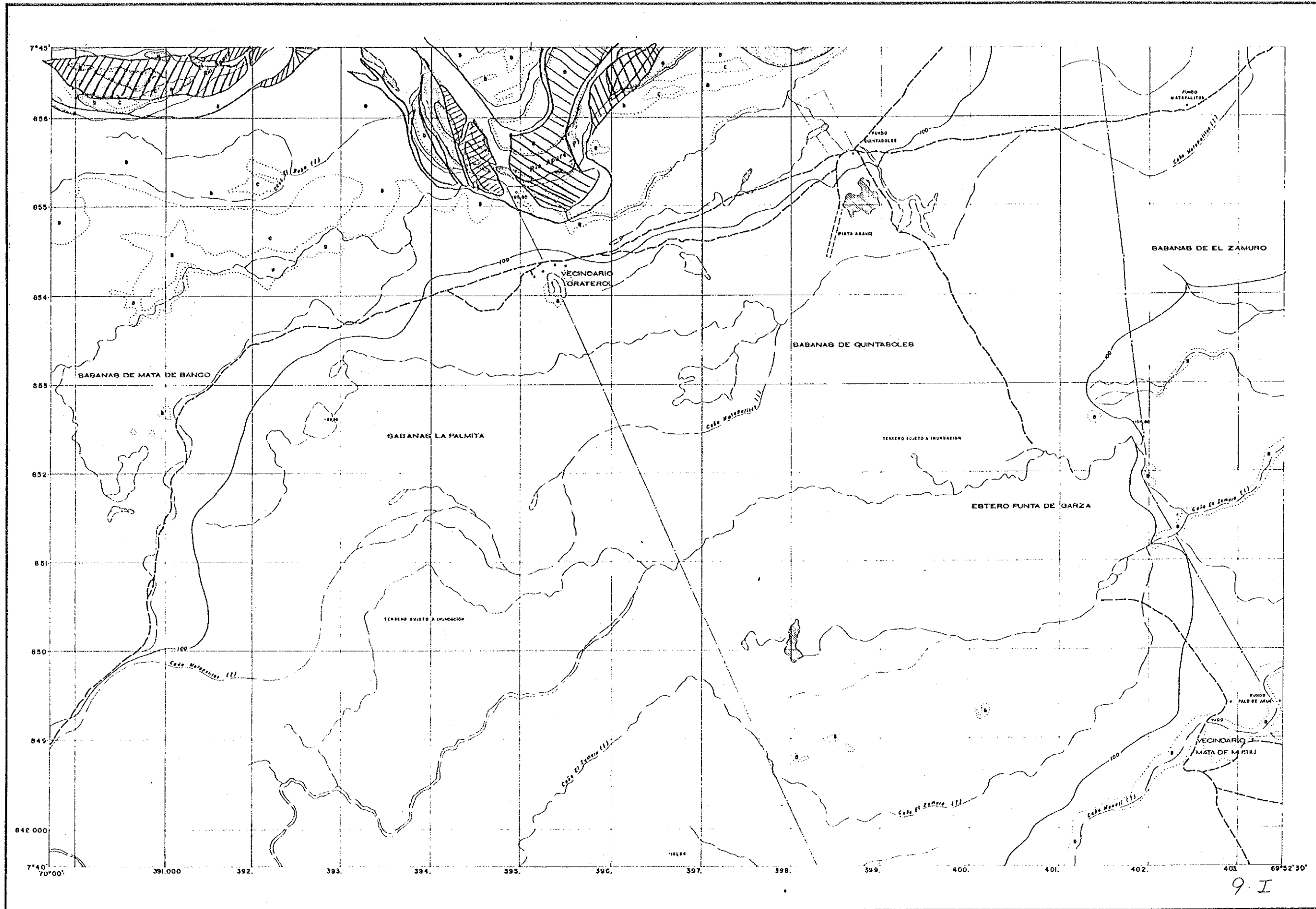
REPUBLICA DE VENEZUELA
MINISTERIO DE OBRAS PUBLICAS
CARTOGRAFIA NACIONAL
ESCALA 1:25.000
1.963

6139-II-NE





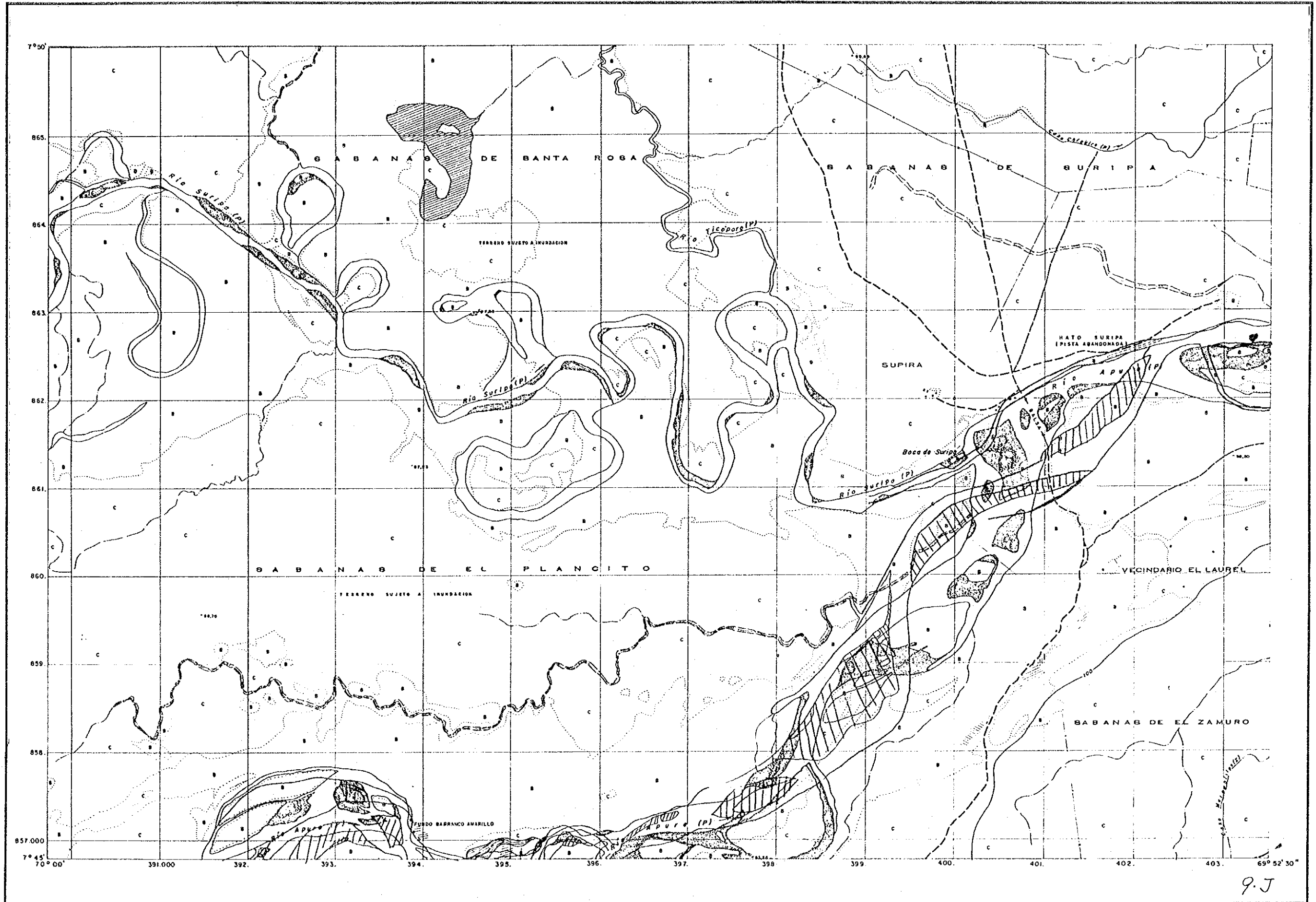
GRATEROL



9. I



BOCA DE SURIPA



9.J