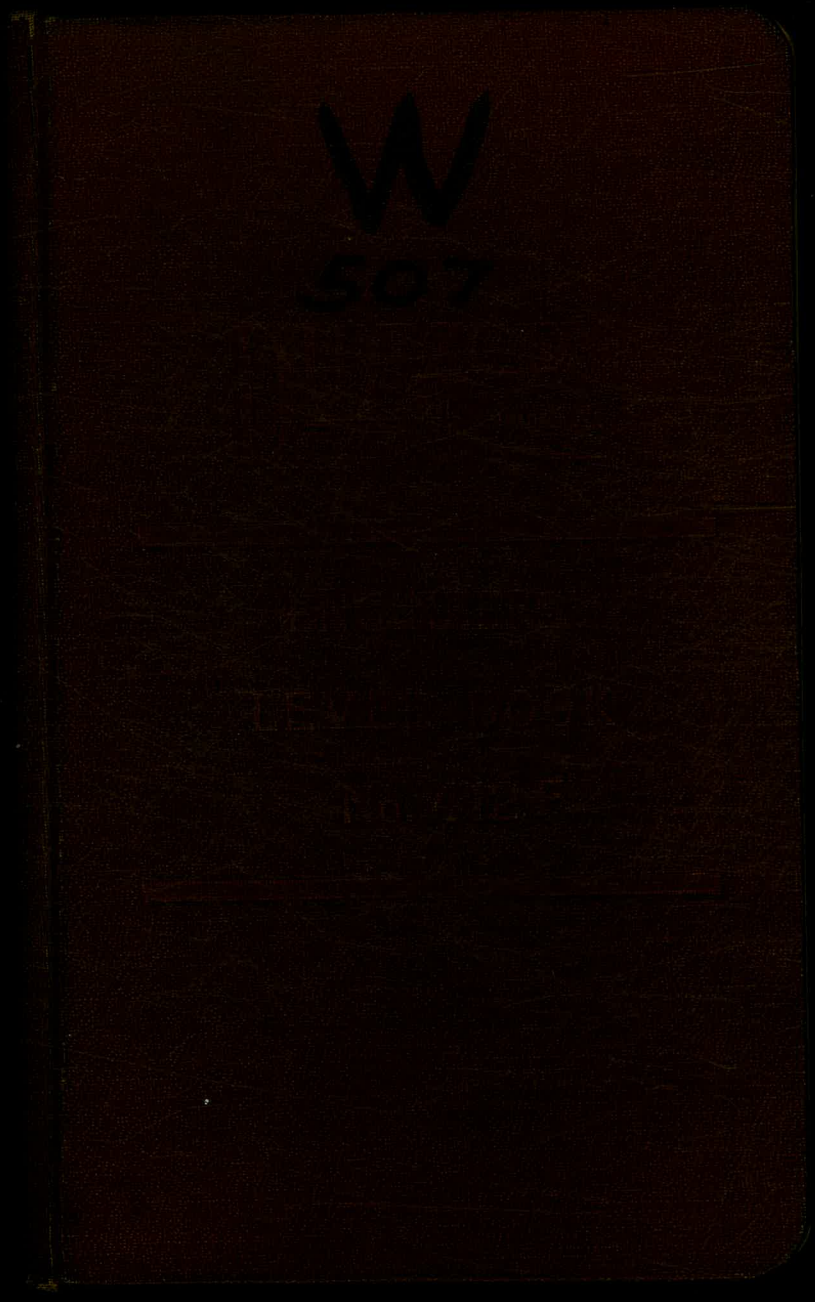

W
SO7

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1.

For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
1	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	1
2	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	2
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	3
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	7
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	8
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	9
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	10
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	11
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	12
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	13
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	14
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	15
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	16
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	17
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	18
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	19
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	20
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	21
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	22
23	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	23
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	24
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	25
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	26
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	27
28	36 0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	28
29	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	29
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	30
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	31
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	32
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	33
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	34
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	35
36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be 30.6+(20—16)÷2 or 2 ft. added to 30.6 =32.6. For slopes of 1 on 1½ see inside of back cover.

Made in U. S. A.

507

Movement of Monuments

May 31-1935.

Simpson
Soper
Remmen

Mon. No.	Total Move.							
	Monuments on Top of Dam							
B.M.			7.42	777.09		769.67		
					5.92	771.17	=inside	23-
1	0.04	E.			5.93	771.16	=outside	22-
					5.21	771.88		29-
2	0.13	E.			5.21	771.88	"	46-
					4.87	772.22		69-
3	0.22	E.			4.87	772.22	"	69-
					4.10	772.99		82-
4	0.28	E.			4.10	772.99		81-
					3.95	773.14		87-
5	0.32	E.			3.95	773.14	"	87-
T.P.			4.68	777.22	4.55	772.54		
					3.97	773.25		91-
6	0.37	E			3.97	773.25	"	90-
					4.50	772.72		90-
7	0.41	E.			4.47	772.75		89-
					5.12	772.10		80-
8	0.40	E.			5.11	772.11	"	79-
					5.59	771.63		60-
9	0.30	E.			5.57	771.65	"	58-
					6.04	771.18		21-
10	0.15	E.			6.06	771.16	"	21-
								769.52
B.M.					7.69	769.53		6953
								.01

May 31-1935.

Mon. No.	Total Move.	
		725'- Upstream
1	0.10	E.
2	0.18	E.
3	0.27	E.
4	0.24	E.
5	0.27	E.
6	0.36	E.
7	0.38	E.
8	0.17	E.
		700'- Upstream
1	0.15	E.
2	0.36	E.
3	0.56	E.
4	0.59	E.
5	0.58	E.
6	0.83	E.
7	0.84	E.
8	0.37	E.

B.M	7.70	731.39		723.69	
1			4.57	26.82	21-
2			5.03	26.36	47-
3			6.26	25.13	68-
4			4.58	26.81	79-
5			4.40	26.99	87-
6			5.51	25.88	85-
7			5.40	25.99	66-
8			5.74	25.65	29-
B.M.	0.84	709.37		708.53	
1			12.74	696.63	12-
2			11.92	697.45	41-
3			10.96	698.41	52-
4			10.46	698.91	60-
5			9.24	700.13	1.21-
6			7.42	701.95	72-
7			6.29	703.08	80-
8			3.97	705.40	19-

May 31-1935.

Mon. No.	Total Move.	
		675'- Upstream
1	0.30	E.
2	0.50	E.
3	0.52	E.
4	0.60	E.
5	0.63	E.
6	0.53	E.
7	0.30	E.
		650'- Upstream
1	0.28	E.
2	0.41	E.
3	0.62	E.
4	0.34	E.
5	0.24	E.

B.M.	6.60	679.87		673.27	
1			4.75	75.12	77-
2			5.36	74.51	50-
3			4.41	75.46	50-
4			3.95	75.92	54-
5			4.65	75.22	72-
6			5.42	74.45	92-
7			4.38	75.49	32-
B.M	1.13	656.92		655.79	
1			6.56	50.36	40-
2			6.18	50.74	51-
3			6.50	50.42	91-
4			7.09	49.83	46-
5			6.77	50.15	36-

May 31 - 1935.

Mon. No.	Total Move.							
		725' - Downstream	B.M	4.25	731.11		726.86	
1	0.06	E.	1			3.79	27.32	35-
2	0.16	E.	2			4.02	27.09	60-
3	0.20	E.	3			4.31	26.80	77-
4	0.18	E.	4			5.64	25.47	79-
5	0.16	E.	5			5.14	25.97	73-
6	0.12	E.	6			7.48	23.63	60-
7	0.00		7			7.29	23.82	27-
		700' - Downstream						
			B.M	12.14	706.23		694.09	
1	0.12	W.	1			5.23	701.00	29-
2	0.08	W.	2			4.69	701.54	32-
3	0.03	W.	3			4.45	701.78	59-
4	0.05	W.	4			4.68	701.55	33-
5	0.11	W.	5			4.91	701.32	32-
6	0.11	W.	6			5.27	700.96	11-

May 31st 1935.

Mon. No.	Total Move.	
		675'- Downstream
1	0.07	W.
2	0.17	W.
3	0.16	W.
4	0.16	W.
5	0.13	W.
6	0.12	W.
7	0.08	W.
		650'- Downstream
1	0.025	W.
2	0.11	W.
3	0.13	W.
4	0.29	W.
5	0.08	W.
6	0.09	W.
7	0.06	W.

B.M.	6.47	681.20		674.73	
1			5.32	675.88	05-
2			6.10	675.10	14-
3			5.62	675.58	17-
4			5.13	676.07	18-
5			5.43	675.77	17-
6			5.77	675.43	15-
7			5.97	675.23	08-
B.M	6.05	655.42		649.37	
1			5.09	650.33	03-
2			4.91	650.51	08-
3			5.48	649.94	11-
4			4.68	650.74	32-
5			4.46	650.96	10-
6			4.70	650.72	09-
7			5.02	650.40	06-

May 31-1935.

Mon. No.	Total Move.	
	625'-Downstream	
1	0.02	W.
2	0.06	W.
3	0.04	W.
4	0.00	
	600'-Downstream	
1	0.03	W.
2	0.13	W.
3	0.01	W.
	Downstream Toe Wall	
1	0.035	W.
2	0.00	
3	0.04	W.

B.M.	2.59	630.25		627.66	
1			4.82	25.43	05-
2			4.61	25.64	08-
3			3.93	26.32	07-
4			3.84	26.41	07-
B.M.	5.40	605.06		599.66	
1			4.40	600.66	01-
2			4.41	600.65	21-
3			3.59	601.47	01-
B.M.	12.46	576.11		563.65	
1			1.09	75.02	01+
2			1.10	75.01	01-
3			1.19	74.92	07+

Movement Of Monuments

July-1-1935

Mon. No.	Total Move	
	Monuments On Top of Dam.	
1.	.04	E.
2.	.14	E.
3.	.23	E.
4.	.30	E.
5.	.34	E.
6.	.39	E.
7.	.43	E.
8.	.41	E.
9.	.31	E.
10.	.15	E.

B.M.	7.54	777.21		769.67		
1			6.05	71.16	=inside	.24 -
			6.06	71.15	=outside	23 -
2.			5.36	71.85		50 -
			5.35	71.86	"	48 -
3.			5.03	72.18		73 -
			5.02	72.19	"	72
4.			4.27	72.94		87 -
			4.27	72.94	"	86 -
5.			4.13	73.08		93 -
			4.12	73.09	"	92 -
T.P.	4.76	777.26	4.71	772.50		
6.			4.05	73.21	"	95 -
			4.06	73.20		94 -
7.			4.58	72.68		93 -
			4.55	72.71	"	84 -
8.			5.20	72.06		83 -
			5.19	72.07	"	63 -
9			5.66	71.60		62 -
			5.65	71.61	"	23 -
10			6.10	71.16		22 -
			6.11	71.15	"	
B.M.			7.73	76953		769.54 69.53 .01

July-1-1935.

Mon. No.	Total Move.	
	725' upstream.	
1.	.11	E.
2.	.20	E.
3.	.26	E.
4.	.27	E.
5.	.29	E.
6.	.37	E.
7.	.40	E.
8.	.20	E.
	700' upstream.	
1.	.16	E.
2.	.38	E.
3.	.57	E.
4.	.63	E.
5.	.61	E.
6	.84	E.
7.	.87	E.
8.	.38	E.

B.M.	9.00	732.69	723.69	
1.		5.89	26.80	23-
2.		6.35	26.34	69-
3.		7.58	25.11	70-
4.		5.90	26.79	81-
5.		5.73	26.96	90-
6.		6.84	25.85	88-
7.		6.71	25.98	67-
8.		7.07	25.62	32-
B.M.	0.59	709.12	708.53	
1.		12.47	96.65	10-
2.		11.66	97.46	40-
3.		10.71	98.41	52-
4.		10.20	98.92	59-
5.		8.99	00.13	1.21-
6.		7.17	01.95	77.
7.		6.05	03.07	81-
8.		3.74	05.38	21-

July-1-1935.

Mon. No.	Total Move.	
		675' upstream.
1.	.34	E.
2.	.52	E.
3.	.55	E.
4.	.63	E.
5.	.66	E.
6.	.56	E.
7.	.32	E.
		650' upstream
1.	.30	E
2.	.41	E.
3.	.63	E.
4.	.37	E.
5.	.26	E.

B.M.	6.57	679.84		673.27	
1.			4.74	75.10	24-
2.			5.33	74.51	50-
3.			4.38	75.46	50-
4.			3.93	75.91	55-
5.			4.63	75.21	73-
6.			5.40	74.44	93-
7.			4.35	75.49	37-
B.M.	0.09	655.88		655.79	
1.			5.51	50.37	39-
2.			5.13	50.75	50-
3.			5.45	50.43	90-
4.			6.04	49.84	45-
5.			5.72	50.16	35-

July-1-1935.

Mon. No.	Total Move.	
725' Downstream.		
1.	.06	E.
2.	.15	E.
3.	.19	E.
4.	.17	E.
5.	.15	E.
6.	.11	E.
7.	.01	W.
700' Downstream		
1.	.13	W.
2.	.08	W.
3.	.04	W.
4.	.04	W.
5.	.10	W.
6.	.10	W.

B.M.	4.36	731.22		726.86	
1.			3.91	27.31	36-
2.			4.13	27.09	66-
3			4.43	26.79	78-
4.			5.76	25.46	80-
5			5.28	25.94	76-
6.			7.61	24.61	67-,
7			7.41	23.81	78-
B.M.	12.22	706.31		694.09	
1.			5.31	01.00	79-
2.			4.78	01.53	33-
3.			4.53	01.78	59-
4.			4.76	01.55	33-
5.			5.00	01.31	33-
6.			5.37	00.94	13-

July-1-1935.

Mon. No.	Total Move	
	675' Downstream.	
1.	.07	W.
2.	.13	W.
3.	.16	W.
4.	.16	W.
5.	.14	W.
6.	.11	W.
7.	.08	W.
	650' Downstream	
1.	.03	W.
2.	.10	W.
3.	.12	W.
4.	.28	W.
5.	.08	W.
6.	.09	W.
7.	.05	W.

B.M.	5.80	680.53		674.73	
1.			4.65	75.88	05-
2.			5.43	75.10	14-
3.			4.95	75.58	17-
4.			4.45	76.08	17-
5.			4.75	75.78	16-
6.			5.09	75.44	14-
7.			5.29	75.24	07-
B.M.	7.00	656.37		649.37	
1.			6.05	50.32	02-
2.			5.86	50.51	08-
3.			6.42	49.95	10-
4.			5.62	50.75	31-
5.			5.40	50.97	09-
6.			5.65	50.72	09-
7.			5.96	50.41	03-

July-1-1935.

Mon. No.	Total Move.
	625' Downstream.
1.	.02' W.
2.	.05 W.
3.	.05 W.
4.	.00
	600' Downstream.
1.	.035 W.
2.	.13 W.
3.	.01 W.
	Downstream Toe Wall
1.	.02 W.
2.	.005 E.
3.	.02 W.

B.M.	2.93	630.59		627.66	
1.			5.14	25.45	03-
2.			4.93	25.66	06-
3.			4.26	26.33	06-
4.			4.17	26.42	06-
B.M.	5.80	605.46		599.66	
1			4.79	00.67	00
2.			4.80	00.66	20
3.			3.99	01.47	01-
B.M.	11.44	575.09		563.65	
1.			0.08	75.01	00
2.			0.08	75.01	01-
3.			0.18	74.91	01+

Movement Of Monuments
August - 1 - 1935

Mon. No.	Total Move.
	Monuments on Top of Dam.
1.	.04 E.
2.	.15 E.
3.	.23 E.
4.	.30 E.
5.	.36 E.
6.	.39 E.
7.	.43 E.
8.	.45 E.
9.	.36 E.
10.	.18 E.

Simpson - Transit
Louden - Level
Soper - Remmen - chain.

B.M.	7.26	776.93 ✓		769.67	
		inside	5.78	71.15	.25-
		outside	5.80	71.13	.25-
		inside	5.11	71.82	.53-
		outside	5.10	71.83	.51-
		inside	4.79	72.14	.77-
		outside	4.78	72.15	.76-
		inside	4.05	72.88	.93-
		outside	4.05	72.88	.92-
		inside	3.92	73.01	1.00-
		outside	3.91	73.02	.99-
T.P.	4.80	777.26 ✓	4.47	772.46 ✓	
		inside	4.10	73.16	1.00-
		outside	4.10	73.16	.99-
		inside	4.62	72.64	.98-
		outside	4.59	72.67	.97-
		inside	5.24	72.02	.88-
		outside	5.22	72.04	.86-
		inside	5.68	71.58	.65-
		outside	5.67	71.59	.64-
		inside	6.12	71.14	.25
		outside	6.13	71.13	.24
				769.54	
B.M			7.75	769.51	
				.03	

August 1-1935.

Mon. No.	Total Move.						
	725' upstream.	BM	6.41	730.10 ✓		723.69 ✓	
1.	.11E.				3.26	26.84	.19-
2.	.19E.				3.73	26.37	.46-
3.	.24E.				4.99	25.11	.70-
4.	.26E.				3.30	26.80	.80-
5.	.28E.				3.12	26.98	.88-
6.	.36E.				4.25	25.85	.88-
7.	.36E.				4.13	25.97	.68-
8.	.19E.				4.45	25.65	.29-
	700' upstream.	BM	0.58	709.11 ✓		708.53 ✓	
1.	.17E.				12.45	696.66	.11-
2.	.40E.				11.65	97.46	.40-
3.	.59E.				10.70	98.41	.52-
4.	.64E.				10.19	98.92	.59-
5.	.61E.				8.98	700.13	1.21-
6.	.86E.				7.16	701.95	.72-
7.	.88E.				6.05	703.06	.82-
8	.43E.				3.71	705.40	.19-

August 1-1935

Mon. No.	Total Move.
	675' upstream
1.	.32 E.
2.	.53 E.
3.	.56 E.
4.	.62 E.
5.	.66 E.
6.	.60 E.
7.	.34 E.
	650 upstream.
1.	.29 E.
2.	.41 E.
3.	.63 E.
4.	.35 E.
5.	.24 E.

B.M.	9.93	683.20 ✓		673.27 ✓	
			8.09	75.11	.23 -
			8.70	74.50	.51 -
			7.74	75.46	.50 -
			7.29	75.91	.55 -
			8.00	75.20	.74 -
			8.76	74.44	.93 -
			7.74	75.46	.35 -
B.M.	0.81	656.60 ✓		655.79 ✓	
			6.24	50.36	.39 -
			5.86	50.74	.51 -
			6.18	50.42	.91 -
			6.78	49.82	.47 -
			6.47	50.13	.38 -

August 1-1935.

625 Upstream

Mon. No.	Total Move
1	.33 E.
2	.39 E.
3	.37 E.
4	.22 E.

BM. 5.03	631.19 ✓			626.16	
1			5.35	25.84	.45 -
2			6.08	25.11	.41 -
3.			5.20	25.99	.39 -
4			6.36	24.83	.24 -

August 1-1935.

725' downstream

Mon. No.	Total Move					
		BM	7.95	734.81 ✓		726.86 ✓
1	.05 E				7.50	27.31 .36-
2	.14 E.				7.73	27.08 .65-
3	.19 E.				8.03	26.78 .79-
4	.17 E.				9.37	25.44 .82-
5	.16 E.				8.88	25.93 .77-
6	.10 E				11.20	23.61 .62-
7	.02 W				11.00	23.81 .28-
	700 downstream	BM	11.82	705.91 ✓		694.09 ✓
1	.13 W				4.90	01.01 .28-
2	.09 W.				4.36	01.55 .31-
3	.04 W				4.12	01.77 .60-
4	.06 W.				4.36	01.55 .33-
5	.11 W.				4.60	01.31 .33-
6	.11 W.				4.93	700.98 .09-

August 1-1935.

675' downstream

Mon. No.	Total Move
1	.07W.
2	.13W.
3	.17W.
4	.17W.
5	.15W.
6	.12W.
7	.08W.

650' downstream

1	.03W
2	.11W
3	.14W
4	.29W
5	.10W
6	.08W
7	.07W

B.M.	8.55	683.28 ✓		674.73 ✓	
1.			7.40	75.88	.05-
2.			8.20	75.08	.16-
3.			7.72	75.56	.19-
4.			7.23	76.05	.20-
5.			7.54	75.74	.20-
6.			7.86	75.42	.16-
7			8.05	75.23	.08-
B.M.	6.50	655.87 ✓		649.37 ✓	
1.			5.58	50.29	.07-
2.			5.40	50.47	.12-
3.			5.96	49.91	.14-
4.			5.17	50.70	.36-
5.			4.95	50.92	.14-
6.			5.21	50.66	.15-
7.			5.53	50.34	.10-

August 1, 1935.

625' downstream

Mon. No.	Total Move
1	.02 W.
2	.05 W.
3	.05 W.
4	.02 W.

600' downstream

1	.04 W
2	.14 W.
3	.02 W

Down-stream Toe Wall

1	.01 W.
2	.00
3	.02 W.

B.M	4.44	632.10 ✓		627.66 ✓	
			6.66	25.44	.04 -
			6.45	25.65	.07 -
			5.78	26.32	.07 -
			5.69	26.41	.07 -
B.M.	5.69	605.35 ✓		599.66 ✓	
			4.68	600.67	00
			4.69	600.66	.20 -
			3.87	601.48	00
B.M.	11.57	575.22 ✓		563.65 ✓	
			0.21	75.01	00
			0.21	75.01	.01 -
			0.31	74.91	.01 +

August 31, 1935

Movement of Monuments.

625 upstream

Mon. No.	Total Move
1.	.33 E.
2.	.40 E.
3.	.36 E.
4.	.21 E.

650 upstream

Mon. No.	Total Move
1.	.30 E.
2.	.42 E.
3.	.64 E.
4.	.35 E.
5.	.27 E.

Simpson - Transit
Louden - Level
Soper - Chain
Remmen - Rod.

BM	5.31	631.47		626.16	
1			5.62	25.85	44-
2			6.35	25.12	40-
3			5.48	25.99	39-
4			6.65	24.82	75-
BM	0.99	656.78		655.79	
1			6.36	50.42	34-
2			5.96	50.82	43-
3			6.29	50.49	84-
4			6.89	49.89	40-
5			6.58	50.20	31-

August 31, 1935

675' Upstream

Mon. No.	Total Move.
1.	.34 E.
2.	.53 E.
3.	.57 E.
4.	.64 E.
5.	.67 E.
6.	.62 E.
7.	.35 E.

700' Upstream

1.	.17 E.				
2.	.38 E.				
3.	.57 E.				
4.	.62 E.				
5.	.61 E.				
6.	.85 E.				
7.	.87 E.				
8.	.39 E.				

BM	8.81	682.08		673.27	
1			6.96	75.12	77-
2			7.56	74.52	49-
3			6.61	75.47	49-
4			6.15	75.93 ~~76.93~~	53-
5			6.86	76.22	77-
6			7.64	74.44	93-
7			6.59	75.49	37-
B.M	0.52	709.05		708.53	
1			12.38	696.67	06-
2			11.57	97.48	38-
3			10.61	98.44	49-
4			10.10	98.95	56-
5			~~8.88~~	700.17	1.17
6			7.07	01.98	69-
7			5.95	03.10	78-
8			3.62	05.43	16-

August 31, 1935

725' Upstream.

Mon. No.	Total Move.
1.	.11 E.
2.	.20 E.
3.	.24 E.
4.	.27 E.
5.	.29 E.
6.	.39 E.
7.	.40 E.
8.	.21 E.

BM.	8.38	732.07		723.69	
1			5.23	26.84	19-
2			5.70	26.37	46-
3			6.94	25.13	68-
4			5.26	26.81	79-
5			5.08	26.99	87-
6			6.20	25.87	86-
7			6.07	26.00	65-
8			6.40	25.67	27-

August 31, 1935.

Top of Dam

Mon. No.	Total Move
1	.04E.
2.	.14E.
3.	.23E.
4.	.30E.
5.	.35E.
6.	.38E.
7.	.41E.
8.	.41E.
9.	.34E.
10.	.17E.

B.M.	7.54	777.21 ✓			769.67	
		Inside		6.06	771.15	35-
1		outside		6.08	771.13	35-
		I.S.		5.39	771.82	53-
2		O.S.		5.39	771.82	54-
		I.S.		5.08	772.13	78-
3		O.S.		5.07	772.14	77-
		I.S.		4.33	772.88	93-
4		O.S.		4.33	772.88	94-
		I.S		4.20	773.01	1.00-
5		O.S.		4.20	773.01	1.00-
T.P.	4.96	777.40 ✓		4.77	772.44 ✓	
		I.S.		4.26	773.14	1.02-
6		O.S.		4.26	773.14	1.01-
		I.S		4.78	772.62	1.00-
7		O.S.		4.74	772.66	.98-
		I.S.		5.39	772.01	89-
8		O.S		5.37	772.03	87-
		I.S		5.83	771.57	66-
9		O.S		5.82	771.58	65-
		I.S.		6.26	771.14	75-
10		O.S.		6.28	771.12	75-
B.M.				7.87	769.53 ✓	

August 31, 1935.

725' downstream

Mon. No.	Total Move.
1.	.07 E.
2.	.17 E.
3.	.21 E.
4.	.18 E.
5.	.17 E.
6.	.12 E.
7.	.01 W.

700' downstream

1.	.13 W.
2.	.09 W
3.	.04 W
4.	.05 W.
5.	.11 W.
6.	.11 W.

BM.	5,20	732.06		726.86	
1			4.73	27.33	34-
2			4.96	27.10	63-
3			5.26	26.80	77-
4			6.59	25.47	79-
5			6.09	25.97	73-
6			8.41	23.65	58-
7			8.21	23.85	76-
BM.	12.44	706.53		694.09	
1			5.53	701.00	79-
2			5.00	01.53	33-
3			4.74	01.79	58-
4			4.96	01.57	31-
5			5.20	01.33	31-
6			5.55	700.98	11-

August 31, 1935.

675' downstream

Mon. No.	Total Move.
1.	.07W.
2.	.14W.
3.	.16W.
4.	.17W.
5.	.15W.
6.	.12W.
7.	.07W.

650' Downstream

Mon. No.	Total Move.
1.	.03W.
2.	.11W.
3.	.12W.
4.	.29W.
5.	.09W.
6.	.09W.
7.	.05W.

B.M.	6.61	681.34		674.73	
1			5.46	75.88	05-
2			6.25	75.09	15-
3			5.76	75.58	17-
4			5.26	76.08	17-
5			5.56	75.78	16-
6			5.90	75.44	14-
7			6.11	75.23	08-

B.M	6.69	656.06		649.37	
1			5.71	50.35	01-
2			5.53	50.53	06-
3			6.10	49.96	09-
4			5.29	50.77	19-
5			5.08	50.98	08-
6			5.32	50.74	07-
7			5.63	50.43	01-

August 31, 1935.

625' downstream.

Mon. No.	Total Move
1.	.01 W.
2.	.05 W.
3.	.04 W.
4.	.00

600' downstream

1.	.04 W.
2.	.13 W.
3.	.02 W

Downstream Toe Wall

1.	.01 W.
2.	.00
3.	.02 W.

Simpson - Transit
Louden - Level
Soper - chain
Remmen - Rod.

BM	0.56	628.22		627.66	
T.P.	1.52	627.55	2.19	626.03	
1			2.09	25.46	01-
2			1.88	25.67	05-
3			1.20	26.35	01-
4			1.12	26.43	05-
BM	6.02	605.68		599.66	
1			5.01	600.67	00
2			5.02	600.66	01-
3			4.20	601.48	00
B.M.	12.69	576.34		563.65	
1			1.32	75.02	01+
2			1.33	75.01	01-
3			1.43	74.91	01+

Movement of Monuments.
Oct. 1, 1935.

Monuments on Top of Dam.

Mon. No.	Total Move.
1.	0.045 E.
2.	0.14 E.
3.	0.23 E.
4.	0.32 E.
5.	0.34 E.
6.	0.39 E.
7.	0.43 E.
8.	0.40 E.
9.	0.32 E.
10.	0.16 E.

Simpson
Soper
Remmen.

B.M.	6.94	776.61			769.67	
		inside =	5.48		71.13	.27 –
1.		outside =	5.49		71.12	.26 –
		"		4.83	71.78	.57 –
2.				4.82	71.79	.55 –
		"		4.53	72.08	.83 –
3.				4.52	72.09	.82 –
				3.77	72.84	.97 –
4.		"		3.77	72.84	.96 –
		"		3.63	72.98	1.03 –
5.				3.62	72.99	1.02 –
T.P.	4.64	777.04		4.21	772.40	
		inside =	3.95		73.09	1.07 –
6.		outside =	3.95		73.09	1.06 –
		"		4.48	72.56	1.06 –
7.				4.44	72.60	1.04 –
		"		5.08	71.96	.94 –
8.				5.07	71.97	.93 –
		"		5.50	71.54	.69 –
9.				5.49	71.55	.68 –
		"		5.91	71.13	.26 –
10.				5.92	71.12	.25 –
B.M.				7.52	769.52	769.54 769.52 .02

Oct. 1-1935.

725' - Upstream

Mon. No.	Total Move.	
1	0.11	E.
2	0.20	E.
3	0.24	E.
4	0.27	E.
5	0.29	E.
6	0.39	E.
7	0.40	E.
8	0.19	E.

B.M.	7.62	731.31		723.69	
1			4.50	26.81	.22-
2			4.98	26.33	.50-
3			6.23	25.08	.73-
4			4.57	26.74	.84-
5			4.38	26.93	.93-
6			5.50	25.81	.92-
7			5.36	25.95	.70-
8			5.66	25.65	.29-

Oct. 1 - 1935.

700' - Upstream

Mon. No.	Total Move.	
1	0.165	E.
2	0.40	E.
3	0.57	E.
4	0.63	E.
5	0.61	E.
6	0.85	E.
7	0.87	E.
8	0.39	E.

675' - Upstream

1	0.35	E.				
2	0.54	E.				
3	0.57	E.				
4	0.64	E.				
5	0.68	E.				
6	0.60	E.				
7	0.34	E.				

B.M.	1.03	709.56		708.53	
1			12.92	696.64	.11 -
2			12.12	97.44	.42 -
3			11.18	98.38	.55 -
4			10.68	98.88	.63 -
5			9.46	700.10	1.24 -
6			7.64	701.92	.75 -
7			6.49	703.07	.81 -
8			4.15	705.41	.18 -
B.M.	7.12	680.39		673.27	
1			5.28	75.11	.23 -
2			5.90	74.49	.52 -
3			4.95	75.44	.52 -
4			4.49	75.90	.56 -
5			5.19	75.20	.74 -
6			5.96	74.43	.94 -
7			4.90	75.49	.32 -

Oct. 1-1935.

650'- Upstream

Mon. No.	Total Move.						
B.M		1.31	657.10	3.19	655.79	
		1.37	655.28		653.91	
1	0.30	E.		4.93	50.35	.41-
2	0.42	E.		4.55	50.73	.52-
3	0.64	E.		4.87	50.41	.92-
4	0.36	E.		5.46	49.82	.47-
5	0.27	E.		5.13	50.15	.36-

625'- Upstream

B.M.		5.42	631.58		626.16	
1	0.34	E.		5.74	25.84	.45-
2	0.40	E.		6.47	25.11	.41-
3	0.38	E.		5.59	25.99	.39-
4	0.22	E.		6.74	24.84	.23

Oct. 1 - 1935.

725' - Downstream

Mon. No.	Total Move.	
1	0.07	E.
2	0.17	E.
3	0.21	E.
4	0.19	E.
5	0.18	E.
6	0.12	E.
7	0.01	W.

700' - Downstream

1	0.13	W.
2	0.09	W.
3	0.05	W.
4	0.05	W.
5	0.11	W.
6	0.11	W.

B.M.	5.25	732.11		726.86	
1			4.80	27.31	.36 -
2			5.05	27.06	.67 -
3			5.36	26.75	.82 -
4			6.69	25.42	.84 -
5			6.18	25.93	.77 -
6			8.50	23.61	.62 -
7			8.28	23.83	.26 -

B.M.	12.09	706.18		694.09	
1			5.18	701.00	.29 -
2			4.67	01.51	.35 -
3			4.42	01.76	.61 -
4			4.64	01.54	.34 -
5			4.86	01.32	.32 -
6			5.20	700.98	.09 -

Oct. 1 - 1935.

675' - Downstream

Mon. No.	Total Move.	
1	0.08	W.
2	0.14	W.
3	0.17	W.
4	0.17	W.
5	0.15	W.
6	0.12	W.
7	0.08	W.

650' - Downstream

1	0.03	W.
2	0.12	W.
3	0.13	W.
4	0.29	W.
5	0.09	W.
6	0.10	W.
7	0.06	W.

B.M.	5.45	680.18		674.73	
1			4.30	75.88	.05 -
2			5.10	75.08	.16 -
3			4.63	75.55	.20 -
4			4.13	76.05	.20 -
5			4.43	75.75	.19 -
6			4.76	75.42	.16 -
7			4.94	75.24	.07 -

B.M.	6.19	655.56		649.37	
1			5.22	50.34	.02 -
2			5.05	50.51	.08 -
3			5.62	49.94	.11 -
4			4.82	50.74	.32 -
5			4.60	50.96	.10 -
6			4.84	50.72	.09 -
7			5.13	50.43	.01 -

Oct. 1-1935.

625'-Downstream

Mon. No.	Total Move.	
1.	0.02	W.
2	0.05	W.
3	0.04	W.
4	0.00	

600'-Downstream

1	0.04	W.
2	0.13	W.
3	0.02	W.

Observation Wells.

	Water Depth	Elev.	Bottom Depth	Elev.
#1	86.1	577.3	90.3	573.1
#3	131.7	611.4	143.7	599.4
#5	87.8	621.2	138.0	571.0
#6	115.2	586.8	116.5	585.5

B.M.	2.58	630.24		627.66	
1			4.79	25.45	.03-
2			4.59	25.65	.07-
3			3.91	26.33	.06-
4			3.80	26.44	.04-

B.M	5.73	605.39		599.66	
1			4.73	600.66	.01-
2			4.74	600.65	.21-
3			3.91	601.48	.00

Movement of Monuments
November 1 1935

Mon. No.	Total Move. 625 Upstream
1	0.36 E.
2	0.40
3	0.38
4	0.22

650 Upstream

1	0.30 E
2	0.41
3	0.65
4	0.39
5	0.26

Converse - Chief. - Simpson - Transit.
Soper - Level - Remmen - Rod,

B.M.	4.67	630.83 ✓		626.16
1			5.03	25.80 ✓ .49-
2			5.76	25.07 ✓ .45-
3			4.85	25.98 ✓ .40-
4			5.98	24.85 ✓ .22-
B.M.	0.63	656.42 ✓		655.79
1			6.10	50.32 ✓ 43-
2			5.75	50.67 ✓ 58-
3			6.06	50.36 ✓ 97-
4			6.62	49.80 ✓ 49-
5			6.27	50.15 ✓ 36-

Nov. 1 1935

675 Upstream

Mon. No.	Total Move.
1	0.34 E
2	0.55
3	0.57
4	0.63
5	0.68
6	0.59
7	0.33

700 Upstream

	0.11 E
	0.40 E
	0.57 E
	0.63 E
	0.61
	0.80
	0.86
	0.39

B.M.	6.53	679.80 ✓		673.27
1			4.72	75.08 ✓ .26 -
2			5.37	74.43 ✓ .58 -
3			4.40	75.40 ✓ .56 -
4			3.93	75.87 ✓ .59 -
5			4.61	75.19 ✓ .75 -
6			5.37	74.43 ✓ .94 -
7			4.30	75.50 ✓ .31 -
B.M.	0.86	709.39		708.53 ✓
1			12.78	696.61 ✓ .14 -
2			12.01	697.38 ✓ .48 -
3			11.09	698.30 ✓ .63 -
4			10.59	698.80 ✓ .71 -
5			9.33	700.06 ✓ 1.28 -
6			7.50	701.89 ✓ .78 -
7			6.33	703.06 ✓ .82 -
8			3.96	705.43 ✓ .16 -

Nov. 1 1935

725 Upstream

Mon. No.	Total More.
1	0.12 E
2	0.20 E
3	0.25 E
4	0.16
5	0.30
6	0.36
7	0.41
8	0.20

B.M.	6.86	730.55		723.69
1			3.69	26.86
2			4.21	26.34
3			5.48	25.07
4			3.78	26.77
5			3.57	26.98
6			4.66	25.89
7			4.49	26.06
8	725 Upstream		4.76	25.79
B.M	10.01	733.70 ✓		723.69
1			6.90	26.80 ✓ .23-
2			7.40	26.30 ✓ .53-
3			8.66	25.04 ✓ .77-
4			6.99	26.71 ✓ .89-
5			6.80	26.90 ✓ .96-
6			7.91	25.79 ✓ .94-
7			7.77	25.93 ✓ .72-
8			8.06	25.64 ✓ .30-

Nov. 1 1935

Monuments on top of Dam

Mon. No.	Total Move.
1	0.05E
2	0.14E
3	0.24E
4	0.31E
5	0.35E
6	0.40E
7	0.42E
8	0.41E
9	0.33E
10	0.15E

B.M	7.01	776.68 ✓		769.67 ✓	
			5.59	771.10 ✓	inside - 30 -
1			5.59	771.09 ✓	outside. 29 -
			4.96	771.72 ✓	63 -
2			4.95	771.73 ✓	61 -
			4.65	72.03 ✓	88 -
3			4.65	72.03 ✓	88 -
			3.89	72.79 ✓	1.02 -
4			3.89	72.79 ✓	1.01 -
			3.73	72.95 ✓	1.06 -
5			3.72	72.96 ✓	1.05 -
TP	4.51	776.89 ✓	4.30	772.38 ✓	
			3.82	73.07 ✓	1.09 -
6			3.82	73.07 ✓	1.08 -
			4.34	72.55 ✓	1.07 -
7			4.30	72.59 ✓	1.05 -
			4.94	71.95 ✓	.95 -
8			4.92	71.97 ✓	.93 -
			5.36	71.53 ✓	.70 -
9			5.34	71.55 ✓	.68 -
			5.75	71.14 ✓	.25 -
10			5.77	71.12 ✓	.25 -
					769.54
B.M			7.36	769.53 ✓	69.53
					.01

Nov. 1 1935

725 Downstream

Mon. No.	Total Move.
1	0.07 E.
2	0.175 E
3	0.20 E.
4	0.20 E
5	0.16 E
6	0.12 E
7	0.015 W.

B.M	6.49	733.35 ✓		726.86	
1			6.06	27.29 ✓	.38 -
2			632	27.03 ✓	.70 -
3			6.63	26.72 ✓	.85 -
4			7.96	25.39 ✓	.87 -
5			7.45	25.90 ✓	.80 -
6			9.75	23.60 ✓	.63 -
7			9.53	23.82 ✓	.27 -

700 Downstream

1	0.175 W
2	0.085 W
3	0.045 W
4	0.06 W
5	0.10 W
6	0.12 W

B.M.	12.72	706.81 ✓		694.09	
1			5.81	701.00 ✓	.29 -
2			5.30	701.51 ✓	.35 -
3			5.05	701.76 ✓	.61 -
4			5.27	701.54 ✓	.34 -
5			5.49	701.32 ✓	.32 -
6			5.83	700.98 ✓	.09 -

Nov. 1 1935

675 Downstream

Mon. No.	Total Move
1	0.075 W
2	0.135 W
3	0.17 W
4	0.18 W
5	0.16 W
6	0.14 W
7	0.10 W

650 Downstream

1	0.075 W
2	0.11 W
3	0.13 W
4	0.30 W
5	0.10 W
6	0.09 W
7	0.065 W

B.M.	6.52	681.25 ✓		674.73
1			5.37	75.88 ✓ .05 -
2			6.17	75.08 ✓ .16 -
3			5.70	75.55 ✓ .20 -
4			5.20	76.05 ✓ .20 -
5			5.50	75.75 ✓ .19 -
6			5.82	75.43 ✓ .15 -
7			6.01	75.24 ✓ .07 -

B.M.	6.22	655.59 ✓		649.37
1			5.24	50.35 ✓ .01 -
2			5.08	50.51 ✓ .08 -
3			5.65	49.94 ✓ .11 -
4			4.85	50.74 ✓ .32 -
5			4.63	50.96 ✓ .10 -
6			4.87	50.72 ✓ .09 -
7			5.17	50.42 ✓ .02 -

Nov. 1 1935

625 Downstream

Mon. No.	Total Move
1	0.015 N
2	0.06 N
3	0.05 N
4	0.0

600 Downstream

1	0.04 N
2	0.13 N
3	0.015 N

Observation Wells. 11/1/35

No.	Water Depth.	Elev.	Bottom Depth.	Elev.
# 1	87.0	576.4	90.3	573.1
# 3	128.2 (2.) 128.0	614.9	143.6	599.5
# 5	89.2	619.8	137.8	571.2
# 6	115.6	586.4	116.5	585.5

B.M.	2.48	630.14 ✓		627.66
1			4.69	625.45 ✓ .03-
2			4.49	625.65 ✓ .07-
3			3.81	626.33 ✓ .06-
4			3.70	626.44 ✓ .04-

B.M	5.87	605.53 ✓		599.66
1			4.87	600.66 ✓ .01-
2			4.88	600.65 ✓ .21-
3			4.05	601.48 ✓ .00

Movement of Monuments
Nov. 30 1935

625 Upstream

1	.34 E.
2	.40 E.
3	.39 E.
4	.25 E.

650 Upstream

1	.32 E.
2	.43 E.
3	.65 E.
4	.38 E.
5	.26 E.

Simpson - Transit
Soper - Level.

B.M.	3.70	629.86 ✓		626.16
1			4.03	25.83 ✓ .46 -
2			4.76	25.10 ✓ .42 -
3			3.88	25.98 ✓ .40 -
4			5.03	24.83 ✓ .24 -

B.M	0.29	656.08 ✓		655.79
1			5.75	50.33 ✓ .42 -
2			5.37	50.71 ✓ .54 -
3			5.69	50.39 ✓ .94 -
4			6.27	49.81 ✓ .48 -
5			5.94	50.14 ✓ .37 -

Nov. 30 1933

675 Upstream

1.	.34E.
2.	.54E.
3.	.60E.
4.	.64E.
5.	.67E.
6.	.58E.
7.	.32E.

700 Upstream

1.	.17E.
2.	.40E.
3.	.57E.
4.	.64E.
5.	.62E.
6.	.86E.
7.	.87E.
8.	.41E.

B.M.	9.09	682.36 ✓		673.27
1			7.25	75.11 ✓ .23-
2			7.88	74.48 ✓ .53-
3			6.93	75.43 ✓ .53-
4			6.47	75.89 ✓ .57-
5			7.17	75.19 ✓ .75-
6			7.94	74.42 ✓ .95-
7			6.87	75.49 ✓ .32-
B.M.	0.15	708.68 ✓		708.53
1			12.05	696.63 ✓ .12-
2			11.26	697.42 ✓ .44-
3			10.32	698.36 ✓ .57-
4			9.82	698.86 ✓ .65-
5			8.60	700.08 ✓ 1.26-
6			6.78	701.90 ✓ .77-
7			5.63	703.05 ✓ .83-
8			3.27	705.41 ✓ .18-

Nov. 30 1935

725 Upstream

1	.11 E.
2	.20 E.
3	.25 E.
4	.27 E.
5	.31 E.
6	.39 E.
7	.43 E
8	.25 E

B.M	9.24	732.93 ✓		723.69	
1			6.12	26.81 ✓	.22 -
2			6.62	26.31 ✓	.52 -
3			7.88	25.05 ✓	.76 -
4			6.21	26.72 ✓	.88 -
5			6.03	26.90 ✓	.96 -
6			7.13	25.80 ✓	.93 -
7			6.99	25.94 ✓	.71 -
8			7.28	25.65 ✓	.29 -

Nov. 30 1935

Monuments on top of Dam

1	.05E
2	.16E
3	.24E.
4	.30E
5	.33E.
6	.38E.
7	.42E
8	.40E.
9	.35E.
10	.19E.

Very Windy on top of Dam.

B.M.	6.64	776.31 ✓		769.67		
			5.20	771.11 ✓	= inside	-.29 —
1			5.21	771.10 ✓	= outside	.28 —
			4.56	771.75 ✓		.60 —
2			456	771.75 ✓		.59 —
			4.28	772.03 ✓		.88 —
3			4.27	772.04 ✓		.87 —
			3.54	772.77 ✓		1.04 —
4			3.54	772.77 ✓		1.03 —
			3.39	772.92 ✓		1.09 —
5			3.38	772.93 ✓		1.08 —
TP	3.50	775.84 ✓	3.97	772.34 ✓		
			2.81	773.03 ✓		1.13 —
6			2.81	773.03 ✓		1.12 —
			3.33	772.51 ✓		1.11 —
7			3.29	772.55 ✓		1.09 —
			3.93	771.91 ✓		.99 —
8			3.91	771.93 ✓		.97 —
			4.34	771.50 ✓		.73 —
9			4.32	771.52 ✓		.71 —
			4.73	771.11 ✓		.28 —
10			4.75	771.09 ✓		.28 —
						769.54
B.M.			6.32	769.52 ✓		769.52
						.02

Nov. 30 1935

725 Downstream

1.	.07E.
2.	.18E.
3.	.22E.
4.	.20E.
5.	.20E.
6.	.14E.
7.	00

700 Downstream

1.	.13W.
2.	.09W.
3.	.05W.
4.	.05W.
5.	.11W.
6.	.12W.

B.M.	6.17	733.03 ✓		726.86
1			5.74	27.29 ✓ .38 -
2			6.00	27.03 ✓ .70 -
3			6.31	26.72 ✓ .85 -
4			7.65	25.38 ✓ .88 -
5			7.14	25.89 ✓ .81 -
6			9.44	23.59 ✓ .64 -
7			9.21	23.82 ✓ .27 -

B.M.	11.32	705.45		694.09
1			4.47	700.98 ✓ .31 -
2			3.97	701.48 ✓ .38 -
3			3.72	701.73 ✓ .64 -
4			3.94	701.51 ✓ .37 -
5			4.14	701.31 ✓ .33 -
6			4.47	700.98 ✓ .09 -

Nov. 30 1935

675 Downstream

1.	.08W.
2.	.14W.
3.	.16W.
4.	.19W.
5.	.15W.
6.	.12W
7.	.03W.

650 Downstream

1.	.03W.
2.	.11W.
3.	.14W.
4.	.31W.
5.	.10W.
6.	.10W.
7.	.07W.

B.M.	5.71	680.44		674.73
1			4.56	675.88 -.05
2			5.37	675.07 -.17
3			4.91	675.53 -.22
4			4.41	676.03 -.22
5			4.71	675.73 -.21
6			5.02	675.42 -.16
7			5.21	675.23 -.08

B.M.	6.15	655.52		649.37
1			5.17	650.35 -.01
2			5.01	650.51 -.08
3			5.59	649.93 -.12
4			4.79	650.73 -.33
5			4.56	650.96 -.10
6			4.80	650.72 -.09
7			5.08	650.44 -00

Nov. 30 1935

625 Downstream

1.	.01 W.
2.	.06 W.
3.	.05 W.
4.	.01 W.

600 Downstream

1.	.04 W
2.	.14 W.
3.	.01 W.

Observation Wells.

	Water Depth.	Water Elev.	Bottom Depth	Bottom Elev.
#1	87.4	576.0	90.3	573.1
#3	129.6	613.5	143.6	599.5
#5	90.3	618.7	137.8	571.2
#6	116.4	585.6	116.6	585.4

B.M.	4.20	631.86 ✓		627.66
1			6.41	25.45 ✓ .03 –
2			6.22	25.64 ✓ .08 –
3			5.54	26.32 ✓ .07 –
4			5.43	26.43 ✓ .05 –

B.M.	5.53	605.19 ✓		599.66
1			4.53	600.66 ✓ .01 –
2			4.54	600.65 ✓ .21 –
3			3.71	601.48 ✓ 00

Movement of Monuments
Dec. 31 1935

625 Upstream

1	.34	E.
2	.40	E.
3	.39	E.
4	.25	E.

650 Upstream

1	.30	E.
2	.43	E.
3	.66	E.
4	.37	E.
5	.24	E.

Simpson – Transit.
Soper - Level
Remmen - Rod

B.M	4.17	630.33 ✓		626.16
1			4.50	25.83 ✓ 46-
2			5.23	25.10 ✓ 42-
3			4.35	25.98 ✓ 40-
4			5.50	24.83 ✓ 24-
B.M	0.20	655.99 ✓		655.79
1			5.66	50.33 ✓ 42-
2			5.28	50.71 ✓ 54-
3			5.60	50.39 ✓ 94-
4			6.19	49.80 ✓ 49-
5			5.86	50.13 ✓ 38-

Dec 31 1935

675 Upstream

1	.37	E.
2	.56	E.
3	.60	E.
4	.65	E.
5	.70	E.
6	.61	E.
7	.36	E.

700 Upstream

1	.17	E.
2	.40	E.
3	.60	E.
4	.64	E.
5	.62	E.
6	.86	E.
7	.87	E.
8	.41	E.

B. M	7.71	680.98 ✓		673.27	
1			5.88	75.10 ✓	24 -
2			6.50	74.48 ✓	53 -
3			5.56	75.42 ✓	54 -
4			5.10	75.88 ✓	58 -
5			5.80	75.18 ✓	76 -
6			6.57	74.41 ✓	96 -
7			5.50	75.48 ✓	33 -
B. M	0.35	708.88		708.53	
1			12.25	696.63 ✓	12 -
2			11.47	97.41 ✓	45 -
3			10.53	98.35 ✓	58 -
4			10.04	98.84 ✓	67 -
5			8.92	700.06 ✓	1.28 -
6			6.99	701.89 ✓	78 -
7			5.85	703.03 ✓	85 -
8			3.49	705.39 ✓	20 -

Dec 31 1935

725 Upstream

1	.12	E.
2	.20	E.
3	.26	E.
4	.26	E.
5	.28	E.
6	.38	E.
7	.41	E.
8	.20	E.

B.M.	9.17	732.86 ✓		723.69	
1			6.07	26.79 ✓	24 –
2			6.57	26.29 ✓	54 –
3			7.84	25.02 ✓	79 –
4			6.17	26.69 ✓	91 –
5			5.99	26.87 ✓	99 –
6			7.09	25.77 ✓	96 –
7			6.94	25.92 ✓	73 –
8			7.23	25.63 ✓	31 –

Dec 31 1935

Monuments on top of Dam

1	.055	E.
2	.155	E.
3	.24	E.
4	.31	E.
5	.34	E.
6	.41	E.
7	.43	E.
8	.41	E.
9	.35	E.
10	.18	E.

B.M	6.59	776.26 ✓		769.67	
1			5.16	771.10 ✓	= inside 30 –
			5.17	771.09 ✓	= outside 29 –
2			4.53	771.73 ✓	62 –
			4.53	771.73 ✓	" 61 –
3			4.25	772.01 ✓	90 –
			4.24	772.02 ✓	" 89 –
4			3.50	772.76 ✓	1.05 –
			3.50	772.76 ✓	" 1.04 –
5			3.36	772.90 ✓	1.11 –
			3.36	772.90 ✓	" 1.11 –
TP	4.30	776.62 ✓	3.94	772.32 ✓	
6			3.62	773.00 ✓	1.16 –
			3.62	773.00 ✓	" 1.15 –
7			4.14	772.48 ✓	1.14 –
			4.11	772.51 ✓	" 1.13 –
8			4.73	771.89 ✓	1.01 –
			4.72	771.90 ✓	" 1.00 –
9			5.14	771.48 ✓	.75 –
			5.12	771.50 ✓	" .73 –
10			5.51	771.11 ✓	28 –
			5.53	771.09 ✓	" 28 –
B.M			7.10	769.52 ✓	

Dec. 31, 1935

725 Downstream

1	.06	E.
2	.18	E.
3	.23	E.
4	.19	E.
5	.19	E.
6	.13	E.
7	.00	

700 Downstream

1	.13	W.
2	.09	W.
3	.05	W.
4	.06	W.
5	.12	W.
6	.12	W.

B.M	5.16	732.02 ✓		726.86	
1			4.73	27.29 ✓	38 -
2			4.99	27.03 ✓	70 -
3			5.31	26.71 ✓	86 -
4			6.65	25.37 ✓	89 -
5			6.14	25.88 ✓	.82 -
6			8.44	23.58 ✓	65 -
7			8.21	23.81 ✓	28 -
B.M	12.04	706.13		694.09 ✓	
1			5.14	700.99 ✓	30 -
2			4.64	01.49 ✓	37 -
3			4.40	01.73 ✓	64 -
4			4.61	01.52 ✓	36 -
5			4.82	01.31 ✓	33 -
6			5.15	00.98 ✓	09 -

Dec. 31 1935

675' Downstream

1	.08	W.
2	.14	W.
3	.16	W.
4	.18	W.
5	.15	W.
6	.13	W.
7	.10	W.

650 Downstream

1	.035	W.
2	.12	W.
3	.15	W.
4	.32	W.
5	.10	W.
6	.12	W.
7	.07	W.

B.M	6.25	680.98 ✓		674.73
1			5.10	75.88 ✓ 05 –
2			5.91	75.07 ✓ 17 –
3			5.44	75.54 ✓ 21 –
4			4.94	76.04 ✓ 21 –
5			5.24	75.74 ✓ 20 –
6			5.56	75.42 ✓ 16 –
7			5.75	75.23 ✓ 08 –

B.M	6.31	655.68 ✓		649.37
1			5.34	50.34 ✓ 02 –
2			5.18	50.50 ✓ 09 –
3			5.76	49.92 ✓ 13 – ~~50.42~~
4			4.95	50.73 ✓ 33 –
5			4.74	50.94 ✓ 12 –
6			4.97	50.71 ✓ 10 –
7			5.26	50.42 ✓ 02 –

Dec. 31 1935

625 Downstream

1	.02	W.
2	.06	W.
3.	.06	W.
4	.02	W.

600 Downstream

1	.04	W.
2	.13	W.
3	.02	W.

Observation Wells

	Water Depth	Water Elev.	Bottom Depth	Bottom Elev.
#1	87.9	575.5	90.3	573.1
#3	132.1	611.0	143.5	599.6
#5	90.7	618.3	137.8	571.2
#6	—		116.5	585.5

B.M	3.99	631.65 ✓		627.66	
1			6.20	25.45 ✓	03 -
2			6.00	25.65 ✓	07 -
3			5.32	26.33 ✓	06 -
4			5.22	26.43 ✓	05 -

B.M	5.81	605.47 ✓		599.66	
1			4.81	600.66 ✓	01 -
2			4.83	600.64 ✓	22 -
3.			4.00	601.47 ✓	01 -

Movement of Monuments

Jan 31 1936

625 Upstream

1	.33	E.
2	.40	E.
3	.37	E.
4	.25	E.

650 Upstream

1	.30	E.
2	.42	E.
3	.65	E.
4	.37	E.
5	.25	E.

Cloudy - Windy
Simpson - Transit
Soper - Level
Remmen - Rod

B.M	4.67	630.83 ✓		626.16	
1			5.00	25.83 ✓	46 -
2			5.73	25.10 ✓	42 -
3			4.85	25.98 ✓	40 -
4			6.01	24.82 ✓	25 -

B.M	0.11	655.90 ✓		655.79	
1			5.58	50.32 ✓	44 -
2			5.19	50.71 ✓	54 -
3			5.51	50.39 ✓	94 -
4			6.10	49.80 ✓	49 -
5			5.77	50.13 ✓	38 -

Jan. 31, 1936

675 Upstream

1	.37	E.
2	.56	E.
3	.59	E.
4	.65	E.
5	.70	E.
6	.61	E.
7	.36	E.

700 Upstream

1	.17	E.
2	.40	E.
3	.60	E.
4	.64	E.
5	.62	E.
6	.86	E.
7	.87	E.
8	.40	E.

B.M	7.11	680.38 ✓		673.27 ✓	
1			5.30	75.08 ✓	26-
2			5.92	74.46 ✓	55-
3			4.97	75.41 ✓	55-
4			4.52	75.86 ✓	60-
5			5.22	75.16 ✓	78-
6			6.00	74.38 ✓	99-
7			4.92	75.46 ✓	35-
B.M	0.16	708.69 ✓		708.53	
1			12.06	696.63 ✓	12-
2			11.28	97.41 ✓	45-
3			10.34	98.35 ✓	58-
4			9.85	98.84 ✓	67-
5			8.62	700.07 ✓	1.27-
6			6.80	01.89 ✓	78-
7			5.65	03.04 ✓	84-
8			3.29	05.40 ✓	19-

Jan. 31, 1936

725 Upstream

1	.11	E.
2	.20	E.
3	.26	E.
4	.26	E.
5	.28	E.
6	.38	E.
7	.41	E.
8	.20	E.

B.M.	6.81	730.50 ✓		723.69	
1			3.71	26.79 ✓	24 -
2			4.21	26.29 ✓	54 -
3			5.48	25.02 ✓	79 -
4			3.81	26.69 ✓	91 -
5			3.63	26.87 ✓	99 -
6			4.73	25.77 ✓	96 -
7			4.58	25.92 ✓	73 -
8			4.87	25.63 ✓	31 -

Jan. 31, 1936

Monuments on top of Dam

1	.055	E.
2	.155	E.
3	.24	E.
4	.31	E.
5	.34	E.
6	.41	E.
7	.44	E.
8	.41	E.
9	.34	E.
10	.165	E.

B.M	6.66	776.33 ✓			769.67	
			5.23		71.10 ✓	= inside 30 –
			5.25		71.08 ✓	= outside 30 –
1						
			4.62		71.71 ✓	64 –
			4.62		71.71 ✓	63 –
2						
			4.34		71.99 ✓	92 –
			4.33		72.00 ✓	91 –
3						
			3.60		72.73 ✓	1.08 –
			3.60		72.73 ✓	" 1.07
4						
			3.46		72.87 ✓	1.14 –
			3.45		72.88 ✓	" 1.13 –
5						
TP	3.66	775.96 ✓	4.03		772.30 ✓	
			2.98		72.98 ✓	1.18 –
			2.98		72.98 ✓	" 1.17 –
6						
			3.50		72.46 ✓	1.16 –
			3.46		72.50 ✓	" 1.14 –
7						
			4.09		71.87 ✓	1.03 –
			4.07		71.89 ✓	" 1.01 –
8						
			4.49		71.47 ✓	.76 –
			4.47		71.49 ✓	" .75 –
9						
			4.86		71.10 ✓	29 –
			4.88		71.08 ✓	29 –
10						
						769.54
B.M			6.44		769.52 ✓	.02

Jan. 31, 1936

725 Downstream

1	.07	E.
2	.18	E.
3	.23	E.
4	.19	E.
5	.19	E.
6	.13	E.
7	.00	

700 Downstream

1	.13	W.
2	.09	W.
3	.05	W.
4	.06	W.
5	.11	W.
6	.11	W.

B.M	6.31	733.17 ✓		726.86	
1			5.89	27.28 ✓	39 –
2			6.16	27.01 ✓	72 –
3			6.48	26.69 ✓	88 –
4			7.81	25.36 ✓	90 –
5			7.30	25.87 ✓	83 –
6			9.61	23.56 ✓ 24.56	67 –
7			9.37	23.80 ✓	29 –
B.M	12.19	706.28 ✓		694.09	
1			5.30	700.98 ✓	31 –
2			4.80	701.48 ✓	38 –
3			4.56	01.72 ✓	65 –
4			4.77	01.51 ✓	37 –
5			4.98	01.30 ✓	34 –
6			5.31	700.97 ✓	10 –

Jan. 31, 1936

675 Downstream

1	.08	W.
2	.15	W.
3	.18	W.
4	.18	W.
5	.17	W.
6	.13	W.
7	.11	W.

650 Downstream

1	.035	W.
2	.12	W.
3	.15	W.
4	.31	W.
5	.11	W.
6	.10	W.
7	.07	W.

B.M	5.99	680.72 ✓		674.73
1			4.84	75.88 ✓ 05 –
2			5.65	75.07 ✓ 17 –
3			5.18	75.54 ✓ 21 –
4			4.69	76.03 ✓ 22 –
5			4.99	75.73 ✓ 21 –
6			5.31	75.41 ✓ 17 –
7			5.49	75.23 ✓ 08 –

B.M	6.16	655.53 ✓		649.37
1			5.18	50.35 ✓ 01 –
2			5.02	50.51 ✓ 08 –
3			5.60	49.93 ✓ 12 –
4			4.80	50.73 ✓ 33 –
5			4.58	50.95 ✓ 11 –
6			4.81	50.72 ✓ 09 –
7			5.11	50.42 ✓ 02 –

Jan. 31, 1936

625 Downstream

1	.02	W.
2	.06	W.
3	.06	W.
4	.02	W.

600 Downstream

1	.04	W.
2	.14	W.
3	.02	W.

Observation Wells

	Water Depth	Water Elev.	Bottom Depth	Bottom Elev.
#1	88.5	574.9	90.1	573.3
#3	134.7	608.4	143.6	599.5
#5	91.4	617.6	137.7	571.3
#6	—		116.3	585.7

B.M	3.76	631.42 ✓		627.66
1			5.98	25.44 ✓ .04 –
2			5.78	25.64 ✓ .08 –
3			5.10	26.32 ✓ .07 –
4			5.00	26.42 ✓ .06 –
B.M	5.83	605.49 ✓		599.66
1			4.83	600.66 ✓ .01 –
2			4.85	600.64 ✓ .22 –
3			4.02	601.47 ✓ .01 –

Downstream Toe wall

	total Move.	
1	.02	W
2	.00	
3	.025	W

Movement of Monuments

Feb 29 1936

625' Monuments under water.

650 Upstream

1	.33	E.
2	.43	E.
3	.67	E.
4	.40	E.
5	.27	E.

675 Upstream

1.	.37	E.
2	.56	E.
3	.59	E.
4	.67	E.
5	.70	E.
6	.63	E.
7	.36	E.

Simpson – Transit.
Soper – Level
Remen – Rod.

B.M.	1.85	657.64 ✓		655.79
1			7.33	50.31 ✓ 44 –
2			6.95	50.69 ✓ 56 –
3			7.27	~~49.37~~ 50.37 ✓ 96 –
4			7.85	49.79 ✓ 50 –
5			7.52	50.12 ✓ 39 –
B.M	7.19	680.46 ✓		673.27
1			5.44	75.02 ✓ 32 –
2			6.04	74.42 ✓ 59 –
3			5.10	75.36 ✓ 60 –
4			4.62	75.84 ✓ 62 –
5			5.32	75.14 ✓ 80 –
6			6.11	74.35 ✓ 1.02 –
7			5.03	75.43 ✓ 38 –

Feb. 29, 1936

700 Upstream

1	.17	E.
2	.44	E.
3	.62	E.
4	.68	E.
5	.68	E.
6	.88	E.
7	.91	E.
8	.40	E.

725 Upstream

1	.12	E.
2	.21	E.
3	.26	E.
4	.27	E.
5	.29	E.
6	.38	E.
7	.42	E.
8	.22	E.

B.M.	0.15	708.68 ✓		708.53
1			12.04	696.64 ✓ 11 –
2			11.27	97.41 ✓ 45 –
3			10.33	98.35 ✓ 58 –
4			9.84	98.84 ✓ 67 –
5			8.61	700.07 ✓ 1.27 –
6			6.78	01.90 ✓ 77 –
7			5.64	03.04 ✓ 84 –
8			3.26	05.42 ✓ 17 –
B.M	6.81	630.50 ✓		723.69
1			3.72	26.78 ✓ 25 –
2			4.22	26.28 ✓ 55 –
3			5.49	25.01 ✓ 80 –
4			3.82	26.68 ✓ 92 –
5			3.64	26.86 ✓ 1.00 –
6			4.74	25.76 ✓ 97 –
7			4.58	25.92 ✓ 73 –
8			4.87	25.63 ✓ 81 –

Feb. 29, 1936

Monuments on top of Dam

1	.05	E.
2	.155	E.
3	.24	E.
4	.32	E.
5	.34	E.
6	.40	E.
7	.45	E.
8	.43	E.
9	.34	E.
10	.165	E.

B.M	6.72	776.39 ✓			769.67	
1			5.30		71.09 ✓	inside 31 –
			5.31		71.08 ✓	outside 30 –
2			4.68		71.71 ✓	64 –
			4.67		71.72 ✓	62 –
3			4.40		71.99 ✓	92 –
			4.39		72.00 ✓	91 –
4			3.66		72.73 ✓	1.08 –
			3.66		72.73 ✓	1.07 –
5			3.53		72.86 ✓	1.15 –
			3.52		72.87 ✓	1.14 –
TP	4.12	776.41 ✓	4.10		772.29 ✓	
6			3.44		72.97 ✓	1.19 –
			3.44		72.97 ✓	1.18 –
7			3.95		72.46 ✓	1.16 –
			3.92		72.49 ✓	1.15 –
8			4.54		71.87 ✓	1.03 –
			4.52		71.89 ✓	1.01 –
9			4.94		71.47 ✓	76 –
			4.92		71.49 ✓	74 –
10			5.30		71.11 ✓	28 –
			5.32		71.09 ✓	28 –
B.M			6.89		769.52 ✓	769.54 69.52 .02

Feb. 29, 1936

725 Downstream

1	.06	E.
2	.17	E.
3	.22	E.
4	.21	E.
5	.17	E.
6	.14	E.
7	.01	E.

700 Downstream

1	.14	W.
2	.09	W.
3	.05	W.
4	.06	W.
5	.13	W.
6	.14	W.

B.M	6.29	733.15 ✓		726.86	
1			5.88	27.27 ✓	40 -
2			6.15	27.00 ✓	73 -
3			6.47	26.68 ✓	89 -
4			7.81	25.34 ✓	92 -
5			7.30	25.85 ✓	85 -
6			9.60	23.55 ✓	68 -
7			9.36	23.79 ✓	30 -
B.M	12.32	706.41 ✓		694.09	
1			5.44	700.97 ✓	32 -
2			4.94	01.47 ✓	39 -
3			4.70	01.71 ✓	66 -
4			4.92	01.49 ✓	39 -
5			5.13	01.28 ✓	36 -
6			5.46	00.95 ✓	12 -

Feb. 29, 1936

675 Downstream

1	.085	W.
2	.15	W.
3	.18	W.
4	.18	W.
5	.17	W.
6	.14	W.
7	.11	W.

650 Downstream

1	.035	W.
2	.125	W.
3	.145	W.
4	.31	W.
5	.10	W.
6	.11	W.
7	.055	W.

B.M	5.94	680.67 ✓		674.73
1			4.80	75.87 ✓ 06-
2			5.61	75.06 ✓ 18-
3			5.14	75.53 ✓ 22-
4			4.64	76.03 ✓ 22-
5			4.94	75.73 ✓ 21-
6			5.26	75.41 ✓ 17-
7			5.45	75.22 ✓ 09-

B.M	5.94	655.31 ✓		649.37
1			4.98	50.33 ✓ 03-
2			4.82	50.49 ✓ 10-
3			5.40	49.91 ✓ 14-
4			4.60	50.71 ✓ 35-
5			4.38	50.93 ✓ 13-
6			4.61	50.70 ✓ 11-
7			4.91	50.40 ✓ 04-

Feb. 29, 1936

625 Downstream

1	.025	W.
2	.07	W.
3	.06	W.
4	.02	W.

600 Downstream

1	.04	W.
2	.14	W.
3	.02	W.

Observation Wells.

	Water Depth	Water Elev.	Bottom Depth	Bottom Elev.
" 1	81.8	581.6	90.1	573.3
" 3	135.2	607.9	143.6	599.5
" 5	72.5	636.5	137.8	571.2
" 6	—		116.3	585.7

B.M	3.41	631.07 ✓		627.66
1			5.64	25.43 ✓ 05-
2			5.44	25.63 ✓ 09-
3			4.76	26.31 ✓ 08-
4			4.66	26.41 ✓ 07-

B.M	5.62	605.28 ✓		599.66
1			4.62	600.66 ✓ 01-
2			4.64	600.64 ✓ 22-
3			3.81	601.47 ✓ 01-

Movement of Monuments

March 31 1936

Monuments on top of Dam

1	.06 - E.
2	.165 - E.
3	.26 - E.
4	.33 - E.
5	.37 - E.
6	.42 - E.
7	.47 - E.
8	.45 - E.
9	.36 - E.
10	.16 - E.

Simpson - transit
Soper - Level
Isbell
Remmen

Raining - Windy

B.M	6.99	776.66 ✓		769.67 ✓	
			5.58	71.08 ✓	inside .32
			5.60	71.06 ✓	outside .32
1			4.97	71.69 ✓	.66
			4.97	71.69 ✓	.65
2			4.71	71.95 ✓	.96
			4.70	71.96 ✓	.95
3			3.97	72.69 ✓	1.12
			3.97	72.69 ✓	1.11
4			3.84	72.82 ✓	1.19
			3.83	72.83 ✓	1.18
5					
TP	4.39	776.65 ✓	4.40	772.26 ✓	
			3.70	72.95 ✓	1.21
			3.70	72.95 ✓	1.20
6			4.22	72.43 ✓	1.19
			4.19	72.46 ✓	1.18
7			4.81	71.84 ✓	1.06
			4.79	71.86 ✓	1.04
8			5.20	71.45 ✓	.78
			5.18	71.47 ✓	.76
9			5.55	71.10 ✓	.29
			5.57	71.08 ✓	.29
10					769.54 / 69.52 / .02
B.M.			7.13	769.52 ✓	

March 31 - 36

725 Upstream

1	.125	-E.
2	.22	-E.
3	.26	-E
4	.27	-E.
5	.30	-E.
6	.40	-E.
7	.135	-E.
8	.22	-E.

700 Upstream

1	.19	-E
2	.46	-E.
3	.64	-E
4	.71	-E
5	.67	-E.
6	.88	-E.
7	.91	-E.
8	.41	-E.

B.M.	7.31	731.00 ✓		723.69
1			4.22	26.78 ✓ .25 -
2			4.73	26.27 ✓ .56 -
3			6.00	25.00 ✓ .81 -
4			4.34	26.66 ✓ .94 -
5			4.16	26.84 ✓ 1.02 -
6			5.25	25.75 ✓ .98 -
7			5.10	25.90 ✓ .75 -
8			5.38	25.62 ✓ .32 -
B.M.	0.55	709.08 ✓		708.53
1			12.46	696.62 ✓ .13 -
2			11.70	97.38 ✓ .48 -
3			10.75	98.33 ✓ .60
4			10.27	98.81 ✓ .70
5			8.03	700.05 ✓ 1.29
6			7.20	01.88 ✓ .79
7			6.06	03.02 ✓ .86
8			3.69	05.39 ✓ .20

March 31 - 36

675 Upstream

1	.38	E
2	.58	E
3	.62	E.
4	.69	E.
5	.74	E.
6	.66	E
7	.38	E.

650 Upstream

1	.335	E.
2	.45	E.
3	.68	E.
4	.41	E.
5	.29	E.

B.M.	8.61	681.88 ✓		673.27
1			6.89	74.99 ✓ .35
2			7.48	74.40 ✓ .61
3			6.56	75.32 ✓ .64
4			6.07	75.81 ✓ .65
5			6.76	75.12 ✓ .82
6			7.54	74.34 ✓ 1.03
7			6.51	75.37 ✓ .44
B.M.	1.91	657.70 ✓		655.79
1			7.38	50.32 ✓ .43
2			7.00	50.70 ✓ .55
3			7.33	50.37 ✓ .96
4			7.91	49.79 ✓ .50
5			7.58	50.12 ✓ .39

March. 31-1936

725 Downstream

1	.07	-E.
2	.18	-E.
3	.23	-E.
4	.20	-E.
5	.17	-E.
6	.14	-E.
7	.01	-W.

700 Downstream

1	.13	-W.
2	.095	-W.
3	.05	-W.
4	.06	-W.
5	.10	-W.
6	.12	-W.

B. M.	6.36	733.22 ✓		726.86
1			5.95	27.27 ✓ .40
2			6.23	26.99 ✓ .74
3			6.55	26.67 ✓ .90
4			7.88	25.34 ✓ .92
5			7.37	25.85 ✓ .85
6			9.67	23.55 ✓ .68
7			9.43	23.79 ✓ .30
B. M.	12.47	706.56 ✓		694.09
1			5.59	700.97 ✓ .32
2			5.10	01.46 ✓ .40
3			4.86	01.70 ✓ .67
4			5.07	01.49 ✓ .39
5			5.28	01.28 ✓ .36
6			5.61	700.95 ✓ .12

March - 31 - 1936

675 Downstream

1	.075	W.
2	.15	W.
3	.18	W.
4	.19	W.
5	.17	W.
6	.14	W.
7	.09	W.

650 Downstream

1	.035	W.
2	.125	W.
3	.15	W.
4	.32	W.
5	.105	W.
6	.11	W.
7	.08	W.

B. M.	5.89	680.62 ✓		674.73
1			4.74	75.88 ✓ .05
2			5.55	75.07 ✓ .17
3			5.09	75.53 ✓ .22
4			4.60	76.02 ✓ .23
5			4.90	75.72 ✓ .22
6			5.22	75.40 ✓ .18
7			5.40	75.22 ✓ .09

B. M.	6.09	655.46 ✓		649.37
1			5.13	50.33 ✓ .03
2			4.98	50.48 ✓ .11
3			5.56	49.90 ✓ .15
4			4.75	50.71 ✓ .35
5			4.53	50.93 ✓ .13
6			4.77	50.69 ✓ .12
7			5.06	50.40 ✓ .04

625 Downstream

1	.03	W.
2	.065	W.
3	.065	W.
4	.02	W.

600 Downstream

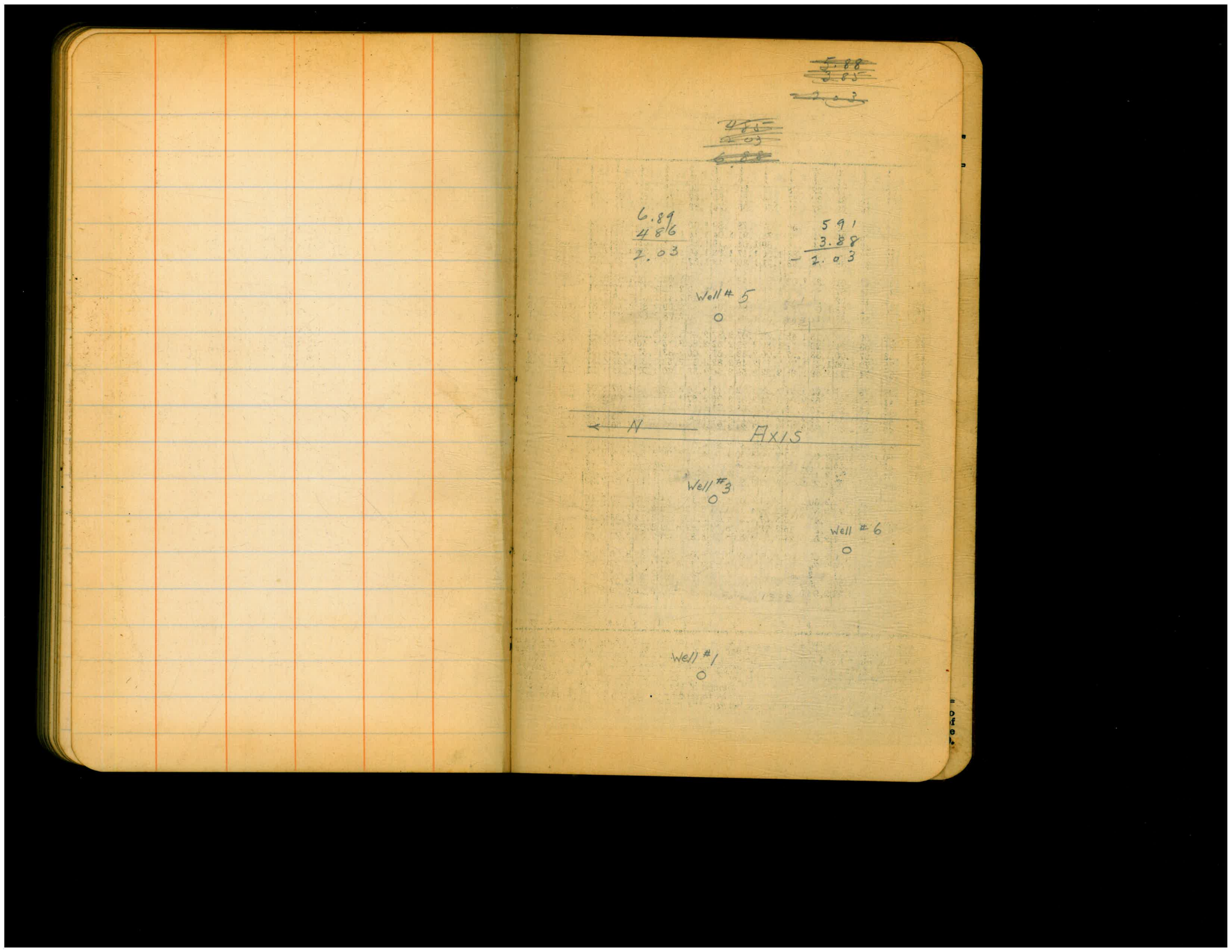
1	.04	W.
2	.135	W.
3	.02	W.

Observation Wells.

	Water Depth	Water Elev.	Bottom Depth	Bottom Elev.
# 1	83.9	579.5	90.1	573.3
# 3	135.8	607.3	143.6	599.5
# 5	67.7	641.3	137.8	571.2
# 6	—		116.3	585.7

March 31 1936

B.M.	4.13	631.79 ✓		627.66
1			6.37	25.42 ✓ .06
2			6.17	25.62 ✓ .10
3			5.49	26.30 ✓ .09
4			5.39	26.40 ✓ .08
B.M	5.72	605.38 ✓		599.66
1			4.72	600.66 ✓ .01 –
2			4.74	00.64 ✓ .22 –
3			3.91	01.47 ✓ .01 –


6.89
4.86
2.03
5.91
3.88
2.03
Well # 5
N
AXIS
Well #3
Well # 6
Well #1

Width	HEIGHT														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	.02	.04	.06	.07	.09	.11	.13	.15	.17	.18	.20	.22	.24	.26	.28
2	.04	.07	.11	.15	.18	.22	.26	.30	.33	.37	.41	.44	.48	.52	.56
3	.06	.11	.17	.22	.28	.33	.39	.44	.50	.56	.61	.67	.72	.78	.83
4	.07	.15	.22	.30	.37	.44	.52	.59	.67	.74	.81	.89	.96	1.04	1.11
5	.09	.19	.28	.37	.46	.56	.65	.74	.83	.93	1.02	1.11	1.20	1.30	1.39
6	.11	.22	.33	.44	.56	.67	.78	.89	1.00	1.11	1.22	1.33	1.44	1.55	1.67
7	.13	.26	.39	.52	.65	.78	.91	1.04	1.16	1.30	1.42	1.55	1.68	1.81	1.94
8	.15	.30	.44	.59	.74	.89	1.04	1.19	1.33	1.48	1.63	1.78	1.92	2.08	2.22
9	.17	.33	.50	.67	.83	1.00	1.17	1.33	1.50	1.67	1.83	2.00	2.17	2.33	2.50
10	.18	.37	.56	.74	.93	1.11	1.30	1.48	1.67	1.85	2.04	2.22	2.41	2.59	2.78
11	.20	.41	.61	.82	1.02	1.22	1.43	1.63	1.83	2.04	2.24	2.44	2.65	2.85	3.06
12	.22	.44	.67	.89	1.11	1.33	1.56	1.78	2.00	2.22	2.44	2.67	2.89	3.11	3.33
13	.24	.48	.72	.96	1.20	1.44	1.68	1.92	2.16	2.41	2.65	2.89	3.13	3.37	3.61
14	.26	.52	.78	1.04	1.30	1.55	1.81	2.08	2.33	2.59	2.85	3.11	3.37	3.63	3.89
15	.28	.56	.83	1.11	1.39	1.67	1.94	2.22	2.50	2.78	3.06	3.33	3.61	3.89	4.17
16	.30	.59	.89	1.18	1.48	1.78	2.07	2.37	2.67	2.96	3.26	3.56	3.85	4.15	4.44
17	.31	.63	.94	1.26	1.57	1.89	2.20	2.52	2.83	3.15	3.46	3.78	4.09	4.41	4.72
18	.33	.67	1.00	1.33	1.67	2.00	2.33	2.67	3.00	3.33	3.67	4.00	4.33	4.67	5.00
19	.35	.70	1.06	1.41	1.76	2.11	2.46	2.82	3.17	3.52	3.87	4.22	4.57	4.92	5.28
20	.37	.74	1.11	1.48	1.85	2.22	2.59	2.96	3.33	3.70	4.07	4.44	4.81	5.18	5.56
21	.39	.78	1.17	1.55	1.94	2.33	2.72	3.11	3.50	3.89	4.28	4.67	5.06	5.44	5.83
22	.41	.81	1.22	1.63	2.04	2.44	2.85	3.26	3.67	4.07	4.48	4.89	5.30	5.70	6.11
23	.43	.85	1.28	1.70	2.13	2.56	2.98	3.41	3.83	4.26	4.68	5.11	5.54	5.96	6.39
24	.44	.89	1.33	1.78	2.22	2.67	3.11	3.56	4.00	4.44	4.89	5.33	5.78	6.22	6.67
25	.46	.92	1.39	1.85	2.31	2.78	3.24	3.70	4.17	4.63	5.09	5.56	6.02	6.48	6.94
26	.48	.96	1.44	1.92	2.41	2.89	3.37	3.85	4.33	4.82	5.30	5.78	6.26	6.74	7.24
27	.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
28	.52	1.04	1.55	2.07	2.59	3.11	3.63	4.15	4.67	5.18	5.70	6.22	6.74	7.26	7.78
29	.54	1.07	1.61	2.15	2.68	3.22	3.76	4.30	4.83	5.37	5.91	6.44	6.98	7.52	8.06
30	.56	1.11	1.67	2.22	2.78	3.33	3.89	4.44	5.00	5.55	6.11	6.67	7.22	7.78	8.33
31	.57	1.15	1.72	2.30	2.87	3.44	4.02	4.59	5.17	5.74	6.32	6.89	7.46	8.04	8.61
32	.59	1.18	1.78	2.37	2.96	3.56	4.15	4.74	5.33	5.92	6.52	7.11	7.70	8.30	8.89
33	.61	1.22	1.83	2.44	3.05	3.67	4.28	4.89	5.50	6.11	6.72	7.33	7.94	8.55	9.17
34	.63	1.26	1.89	2.52	3.15	3.78	4.40	5.04	5.67	6.29	6.93	7.56	8.18	8.81	9.44
35	.65	1.30	1.94	2.59	3.24	3.89	4.53	5.18	5.83	6.48	7.13	7.78	8.42	9.08	9.72
36	.67	1.33	2.00	2.67	3.33	4.00	4.66	5.33	6.00	6.67	7.33	8.00	8.67	9.33	10.00
37	.68	1.37	2.06	2.74	3.42	4.11	4.79	5.48	6.17	6.85	7.54	8.22	8.91	9.59	10.28
38	.70	1.41	2.11	2.82	3.52	4.22	4.92	5.63	6.33	7.03	7.74	8.44	9.15	9.85	10.56
39	.72	1.44	2.17	2.89	3.61	4.33	5.05	5.78	6.50	7.22	7.95	8.67	9.39	10.11	10.83
40	.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.67	7.41	8.15	8.89	9.63	10.37	11.11

Table gives cu. yds. in 1 ft. of a triangle of given width and height. Corrections for tenths of width are one tenth the values found under each height considering the widths from 1 to 9 as tenths and similarly the corrections for tenths of height are one tenth the figures opposite width considering the heights from 1 to 9 as tenths. Thus if w =16.2 and h =5.3, cu. yds. =1.48+.028+.089 =1.597 cu. yds. or practically 160 cu. yds. per 100 ft. If w exceeds 40 ft., use one half and multiply result by 2, if both w and h are large use one half of each and multiply result by 4. Any cross-section may be divided into triangles by the following rule. To the triangle of the sum of the outside cuts (or fills) =h, and ½ the roadbed =w, add the triangles formed by taking the distance out to each break in turn (=w's) by the difference between the cuts (or fills) on each side of it (=h's) always subtracting the outer from the inner.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1½

For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	25.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed correct above figures by one-half difference in width of roadbed; thus in example above for 20 ft. roadbed distance will be 41.9+(20—16)÷2 or 2 ft. added to 41.9 =43.9. For slopes of 1 on 1 see inside of front cover.