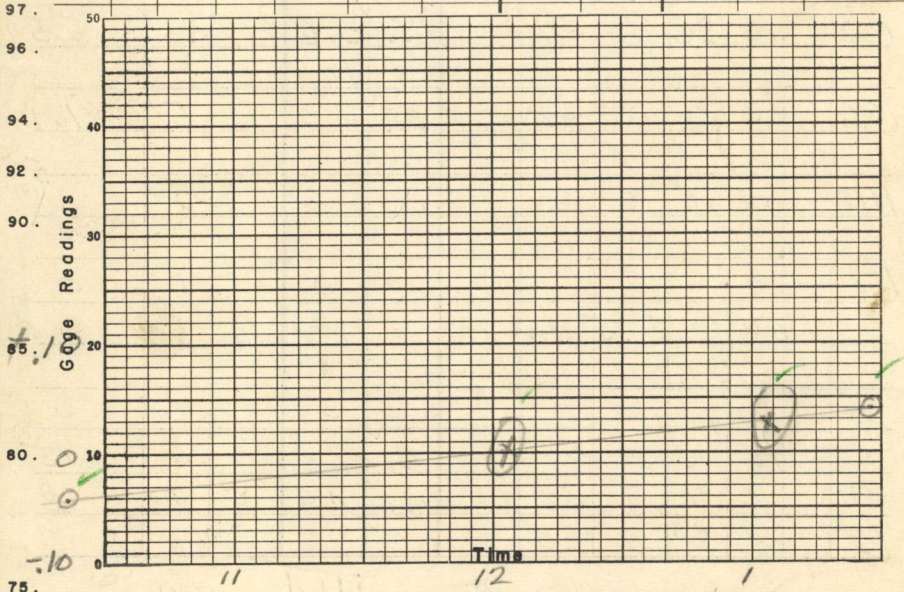
River at

Dist. from initial point	Angle Coefficient	Depth	Depth of observation	Revolutions	Time in seconds	VELOCITY At point	VELOCITY Mean in section	Corr. Area	Area	Width	Discharge



Page ___ of ___ Comp. by: _____ Checked by: _____

A-34

RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Water Resources Branch

DISCHARGE MEASUREMENT NOTES

Meas. No. 481

Checked by RHD

Date 4-9-56

Water temp. ____ °F

Air temp. ____ °F

Time ____

Brazos River at Richmond, Tex *274

Date April 6, 1956 Party Wesko & Sansom

Width 127 Area 141 Vel. 1.8 G.H. ____ Disch. 262

Method 2.6.8 No. Secs. 33 G.H. Chng. +.03 ft. per hr. Time meas. 1.0 hrs.

Meter No. 1950 Date Rated Dec. 53 Susp. Rod Susp. Coef. 1.00

Method Coef. 1.00 Hor. angle Coef. ~~1.00~~ 1.00 Used rating for, rod Rod Susp.

GAGE READINGS

Time	Meas	Recorder	Tape	Inside	~~Outside~~ W.W.
10.22 am			-.04		-.04
12:05 pm	Start	(0.09)			
1:05 pm	End	(0.03)			
1:28 pm			+.04		+.05
~~Weighted~~ MGH			0.02		
GH Corr.					
Correct MGH					

Meter — ft. above bottom of weight

Spin before meas. OK after OK

Wading, cable, ice, boat, upstr., downstr., side bridge ~~Good~~ 12,000 feet, mile, above, below gage, and near low water control

Chain, wire, found 58.68 at ____ G-Sta.

Changed to — at ____

Correct length 58.68

Levels Obtained No

Measurement rated, excellent (2%), good (5%) fair (8%), poor (over 8%) based on following

Cross section Uniform-Sand

Weather clear

Flow Smooth

Other —

Gage OK

Record removed NO Intakes flushed NO

Pencil Sharpened-reset Wt. Adj. NO Paper dry

Record OK Chart time ____ Clock Reg. NONE

Observer Not visited-USWB

Control is sand bars 1000' below -

Remarks well is clean - ran stick through cone - WWG = 999.96 @ 10:22 am

* Two channels

*Storage corr 140(est) x 12,000 x +03 / 3600 = 14 cfs

Page 1 of 4 G.H. of zero flow —

Brazos River at Richmond Tex.

Dist. from initial point	Angle Coefficient	Depth	Depth of observation	Revolutions	Time in seconds	VELOCITY At point	VELOCITY Mean in section	Corr. Area	Area	Width	Discharge
LEW @ 12:05 pm Wade 600' below # 1250											
0							0	0		2	0
4	1	.2	.1	10	59		.40	.8		4	.3
8	1	.6	.36	20 ~~40~~	41 ~~40~~		1.09 ~~1.12~~	2.4		4	2.6
12	1	.8	.48	30 ~~30~~	42 ~~42~~		1.59	3.2		4	5.1
16	1	.9	.54	40 ~~40~~	50 ~~52~~		1.74	3.6		4	6.3
20	1	1.0	.60	40 ~~40~~	44 ~~48~~		2.11	4.0		4	8.4
24		.8	.48	40	41		2.16	3.2		4	6.9
28	.98	.9	.54	40	48		1.85	3.6		4	6.6
32	.98	.8	.48	40	46		1.93	3.2		4	6.1
36	.99	.8	.48	40	44		2.01	3.2		4	6.4
40	.99	1.0	.60	30	46		1.45	4.0		4	5.8
44	.99	1.4	.56	40	51		1.74	5.6		4	9.8
48	.99	1.5	.90	50	48		2.30	6.0		4	13.8
52	1	2.0	.40	50	49	2.25	2.00	8.0		4	16.0
			1.60	40	51	1.74					
56	1	2.1	.42	50	47	2.35	1.92	8.4		4	16.1
			1.68	30	45	1.48		59.2			110.2

Page 2 of 3 Comp. by: JRB Checked by: RHD

Dist. from initial point	Angle Coefficient	Depth	Depth of observation	Revolutions	Time in seconds	VELOCITY At point	VELOCITY Mean in section	Corr. Area	Area	Width	Discharge
								59.2			110.2
60	1	2.1	.42	40	51	1.74	1.98	8.4		4	16.6
			1.68	40	40	2.21					
64	1	2.2	.44	40	40	2.21	1.96	8.8		4	17.2 ~~16.8~~
			1.76	40	52	1.71					
68	1	2.3	.5	40	41	2.16	1.96	9.2		4	18.0
			1.8	40	50	1.77					
72	1	2.3	.5	50	48	2.30	2.02	9.2		4	18.6
			1.8	40	51	1.74					
76		2.0	.40	50	47	2.35	2.10	8.0		4	16.8
			1.60	40	48	1.85					
80		1.8	.36	50	47	2.35	2.14	7.2		4	15.4
			1.44	40	46	1.93					
84		1.8	.36	50	45	2.45	2.23	7.2		4	16.1
			1.44	40	44	2.01					
88		1.4	.84	40	41		2.16	7.0		5	15.1
94		.9	.54	40	49		1.81	5.4		6	9.8
100		.6	.36	30	44		1.52	3.6		6	5.5
106		.4	.2	10	42		.55	2.0		5	1.1
110		.2	.1	2	60		.10	.6		3	.5
112		0					0	0		1	0
	REW @ 12:55 pm							135.8		112	260.7
	LEW @ 1:00 pm left channel -										
0		0					0	0		2	0
4		.5	.25	5	50		.25	2.0		4	.5
8		.6	.36	7	52		.32	2.4		4	.8
12		.4	.20	3	53		.15	1.2	5.6	3	.2
14		.1					0	0		2	0
	REW @ 1:05 pm							141.4		127	262.2

Page 3 of 3 Comp. by: JRB Checked by: RHD