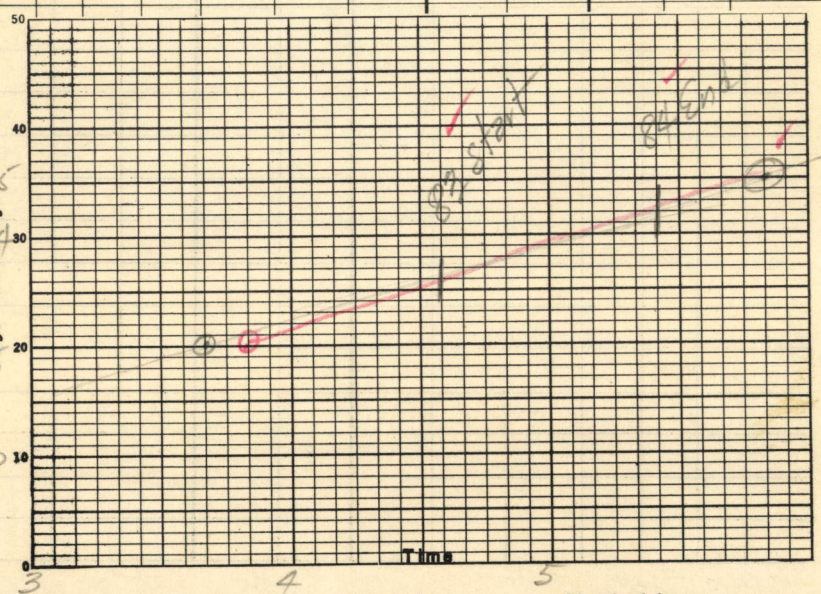
River at

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. 462

Checked by PBS

Date 7-19-55

Water temp. 64 °F

Air temp. _____ °F

Time 5:25 pm

Brazos River at Richmond, Tex.

Date Nov. 15, 1954 Party Hayden & Sansom

Width 192 Area 406 Vel. 1.46 G.H. _____ Disch. 597

Method 2.6.8 No. Secs. 22 G.H. Chng. +.01 ft. per hr. Time meas. 8 hrs.

Meter No. 1826 Date Rated 11-17-50 Susp. Rod Susp. Coef. 1.00

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

GAGE READINGS

Time	Meas	Recorder	Tape	Inside	Outside
3:35 pm			0.82	*	0.87
3:50 pm		0.82+	0.82+		
4:35 pm		Start	(0.83)		
5:25 pm		End	(0.84)		
5:50 pm			0.85		0.88 +.02
Weighted MGH			0.84		
GH Corr.					
Correct MGH					

w.wt.

Meter — ft. above bottom of weight

Spin before meas. OK after OK

Wading, cable, ice, boat, upstr., downstr., side bridge 6000 feet, mile, above, below gage, and 200 ft. below riffle

Chain, wire, found 58.72 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 & gravel

Flow smooth Weather cloudy-cool

Other No wind effect

Gage OK

Record removed Yes Intakes flushed No

Pencil 3B OK Wt. Adj. No Paper Dry

Record clear Chart time 3 hr. Sl. Clock Reg. _____

Observer not visited

Control appears to be sand bars 500-800 ft below - but may be at wading section

Remarks W.W. = 0.87 @ 3:30 OG below 1.68 is missing -
*No IG below 3.3 Max. stage ind. = 1.36 No min. Reset @ .82
Need gage plate 0-3.3 for OG (install when levels are run)

Page 1 of 3 G.H. of zero flow Not det. ft.

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
Rew @ 4:35 pm W side 1 mile below #1826											
8		0	V = 0				0	0		6	0
20	⊥	1.2	.72	20	51		.88	13.2		11	11.6
30		2.0	.4	25	43	1.30	1.12	20.0		10	22.4
			1.6	20	48	.94					
40		2.2	.4	30	43	1.55	1.41	22.0		10	31.0
			1.8	25	44	1.27					
50		2.6	.5	40	53	1.68	1.54	23.4		9	36.1
			2.1	30	48	1.39					
58		2.8	.6	40	53	1.68	1.45	22.4		8	32.5
			2.2	25	46	1.22					
66		2.9	.6	40	51	1.74	1.43	23.2		8	33.2
			2.3	20	40	1.12					
74		3.2	.6	30	41	1.63	1.42	25.6		8	36.5
			2.6	25	46	1.22					
82		2.6	.5	40	52	1.71	1.55	20.8		8	32.2
			2.1	30	48	1.39					
90		2.7	.5	40	54	1.65	1.41	24.3		9	34.3
			2.2	25	48	1.17					
100		2.1	.4	30	40	1.67	1.53	21.0		10	32.1
			1.7	30	48	1.39					
110		2.2	.4	40	50	1.78	1.48	22.0		10	32.6
			1.8	25	47	1.19					
120		2.0	.4	40	47	1.89	1.66	20.0		10	32.8
			1.6	25	42	1.33					
130		2.0	.4	40	47	1.89	1.66	20.0		10	33.2
			1.6	30	47	1.42					
140		2.0	.4	40	43	2.06	1.68	20.0		10	33.6
			1.6	25	43	1.30		297.9			433.3

Page 2 of ____ Comp. by: ____ Checked by: YBS

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
								297.9			433.3
150	⊥	2.1	.4	40	47	1.89	1.74	21.0		10	36.5
			1.7	30	42	1.59					
160		2.3	.5	40	50	1.78	1.62	23.0		10	37.3
			1.8	30	46	1.45					
170		2.3	.5	40	52	1.71	1.51	23.0		10	34.7
			1.8	30	51	1.36					
180		2.2	.4	30	40	1.67	1.38	22.0		10	30.4
			1.8	20	41	1.09					
190		1.8	.4	25	42	1.33	1.14	14.4		8	16.4
			1.4	20	47	.96					
196		.9	.54	20	54		.84	4.5		.5	3.8
200		0		V = 0			0	0		2	0
											592.4
		LEW @ 5:25 pm						405.8			
			W = 64							192	
		TG = 0.85			@ 5:50 pm						
		WW = 0.88 ± .02				getting dark — hard to read WWG					

Page 3 of 3 Comp. by: JNS Checked by: YBS