RECORDED

9-275 c
(July 1935)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

DISCHARGE MEASUREMENT NOTES

Meas. No. 528

Checked by SHR

Date 10-21-58

Brazos River at Richmond, Tex.

Date Feb 20, 1958 Party Holmes & Sauer

Width 257 Area 3080 Vel. 1.38 G. H. _____ Disch. 4250

Method 6 28 Est. No. secs. 22 G. H. change -.02 in 1.1 hrs. Susp. 506.9

Method coef. 1.00 Hor. angle coef. noted Meter No. 90346 Susp. coef. .995 1.00

GAGE READINGS				
Time		~~Recorder~~ Tape	Inside	~~Outside~~ WWJ
9:45 am	Start			5.20±.03
10:53 (F)				(5.18)
10:57 pm				5.18±.03
12 M		6.31 - Float on sand		
		cleaned well		
1:50 pm	Finish	5.10	5.10	5.12
		OG=5.08		
~~Weighted~~ M. G. H.				5.19
G. H. correction				
Correct M. G. H.				

Date rated May 13, 1957 Used rating for rod — susp. Meter 0.9 ft. above bottom of wt. Tags checked _____

Spin before meas. _____ after _____

Meas. plots _____ % diff. from _____ rating

Wading, cable, ice, boat, upstr., downstr., side bridge at feet, mile, above, below gage, and _____

Chain, wire, found —, changed to — at —

Correct length —

Levels obtained —

Measurement rated excellent (2%), good (5%), fair (8%), poor (over 8%), based on following conditions: Cross section uniform

Flow smooth Weather Cold - Hazy

Other Lower door needs replacing Falling -.02 fph

Gage found full of sand to lower door. Cleaned 9' of sand out (one is open Record removed No Intake flushed Yes

Observer saw observer that takes water sample.

Control K

Remarks Add 0.4' to all depths - Only 0.5 was added during meas. Assume Velocity o.k. Done

Reset tape indicators - Need new float

Sheet No. ____ of ____ sheets. G. H. of zero flow _____ ft.

Bulb of thermograph is broken off.

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9-275
September 1943

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date Feb 20, 1958 **DISCHARGE MEASUREMENT NOTES**

Brazos River at Richmond, Tex.

Angle coefficient	Dist. from initial point	Depth	Observation depth	Revolutions	Time in seconds	VELOCITY At point	VELOCITY Mean in vertical	VELOCITY Mean in section	Area	Mean depth	Width	Discharge
			WMt = 5.20 ± .03 @ 9:45 am - Waves.									
	715	0	LEW @ 9:45 am								2½	—
		1.4 ~~1.0~~										
.96	720		0.5	3	40			.18	16.8	17.5	12½	3
		4 ~~4.8~~										
.98	740		.8	15	55	.62		.60	86	88	20	52
		9.1	3.2	10	40	.57						
.99	760	~~8.7~~	1.7	20	48	.93		1.04	180	182	20	187
			7.0	25	48	1.16						
.99	780	13.1 ~~12.7~~	2.5	25	47	1.18		1.32	227	229	17½	300
			10.2	30	46	1.45						
.99	795	4 ~~13.8~~	2.6	30	44	1.51		1.56	199	201	15	310
			10.4	30	41	1.62						
.99	810	9 ~~14.5~~	2.9	30	50	1.33		1.46	222	224	15	324
			11.6	30	42	1.58						
.99	825	4 ~~15.8~~	3.0	30	42	1.58		1.48	229	231	15	339
			12.0	25	40	1.39						
1	840	8 ~~15.4~~	3.1	30	43	1.55		1.56	198	198	12½	309
			12.3	30	42	1.58						
.99	850	16.1 ~~15.7~~	3.1	40	53	1.67		1.64	159	161	10	261
		9	12.6	30	41	1.62						
.99	860	~~17.5~~	3.5	25	44	1.26		1.37	177	179	10	243
			14.0	30	45	1.48						
												2254

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September 1943

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date Feb 20, 1958 **DISCHARGE MEASUREMENT NOTES**

Brazos River at Richmond

Angle coefficient	Dist. from initial point	Depth	Observation depth	Revolutions	Time in seconds	VELOCITY At point	VELOCITY Mean in vertical	VELOCITY Mean in section	Area	Mean depth	Width	Discharge
												2254
.98	870	21.~~0~~ 4	4.2	30	44	1.51		1.50	210	214	10	315
			16.8	30	45	1.48						
	Boom is about 4' U.S. from pier - Say no pier effect											
.90	880	21.2 ~~20.8~~						(1.52)	191	212	10	290
	Est D & V as avg. of sta 870 and 890											
⊥	890	20.~~5~~ 9	4.1	30	41	1.62		1.55	209	209	10	324
			16.4	30	45	1.48						
⊥	900	19.~~3~~ 7	3.9	40	52	1.70		1.16	197	197	10	229
			15.4	15	56	.61						
⊥	910	11.~~5~~ 9	2.3	30	41	1.62		1.55	119	119	10	184
			9.2	30	45	1.48						
⊥	920	11.~~5~~ 9	2.3	30	42	1.58		1.~~3~~28	119		10	~~164~~ 152
			9.2	~~8~~ 20	45	.99 ~~.36~~						
⊥	930	11.~~4~~ 8	2.3	30	42	1.58		1.40	118		10	165
			9.1	25	46	1.21						
⊥	940	~~9.8~~ 10.2	2.0	30	44	1.51		1.32	127		12½	168
			7.8	30	60	1.12						
	95~~0~~ 5	5.~~5~~ 9	1.1	20	47	.95		.92	88		15	81
		~~0.5~~ 0.9	4.4	20	51	.88						
	970	~~1.0~~	est v = ¼ of sta 955					(.23)	7.65		8½	2
	972	0	REW @ 10:53 am								1	
	715		WW = 5.18 ± .03 @ 10:57 pm						3079		257	4~~249~~ 38
	257		CB = 58.72			Correct = 58.68				~~Susp. coeff.~~		x .995
												4100

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