Comb. Clock 28658 New 4-19-39

9-275 c
(July 1935)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

RECORDED

DISCHARGE MEASUREMENT NOTES

Meas. No. 202

Checked by W.H.G.

Date 11-28-41

Brazos River at Richmond, Tex.

Date Nov. 11, 1941 Party Weinheimer & Goines

Width 381 Area 4480 Vel. 2.44 G. H. ____ Disch. 10,900

Method 2-8 No. secs. 26 G. H. change .08 in 1.3 hrs. Susp. 506.9

Method coef. 1.00 Hor. angle coef. 1 Meter No. 1705 Susp. coef. 1.00

GAGE READINGS

Time		Recorder	Inside (Tape)	Outside
8:00 a.m.			11.09	11.10
8:30	Start		11.04	
9:25	Start		(10.90)	
10:45	Finish		(10.91)	
11:35 a.m.			10.86	
11:45			10.84	
7:55 a.m.	Finish	U.S.W.B. m-wt.		11.10
11:30 a.m.		do		10.87
Weighted M. G. H.			10.95	
G. H. correction			—	
Correct M. G. H.				

Date rated Nov. 12, 1938 Used rating for rod rod susp. Meter 9 ft. above bottom of wt. Tags checked —

Spin before meas. ok after ok

Meas. plots — % diff. from — rating

Wading, cable, ice, boat, upstr., downstr., side bridge 270 feet, mile, above, below gage, and —

~~Chain~~, wire, found 58.58,

changed to no at —

Correct length 58.57

Levels obtained —

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

Flow Smooth Weather Favorable

Other —

Gage Removed pen for repairs

Record removed Yes Intake flushed No

Observer —

Control —

Remarks Falling .06'/hr.

Sheet No. 1 of 5 sheets. G. H. of zero flow — ft.

9-275
January 1935

UNITED STATES
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GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date Nov 11, 19 41 **DISCHARGE MEASUREMENT NOTES**

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 vertical	Velocity Mean in section	Area	Mean depth	Width	Discharge
REW 77		0	Start 9:25am			0						
								.18	~~4~~ 3	1.15	3	
80		2.3	1.3	7	47	.35						
								.82	44	4.4	10	36
90		6.5	1.3	30	45	1.49	1.28					
			4.2	20	41½	1.08		1.78	~~146~~ 150	~~9.75~~	15	260
105		13.5	2.7	50	46	2.41	2.29					
			10.8	40	41	2.17		2.26	230	15.35	15	520
120		17.2	3.5	50	47	2.36	2.24					
			13.7	40	42	2.12		2.20	243	16.2	15	535
135		15.2	3.0	50	49	2.26	2.16					
			12.2	50	54	2.06		2.42	215	14.35	15	520
150		13.5	2.7	60	46	2.88	2.67					
			10.8	50	45	2.46		2.80	200	13.3	15	560
165		13.1	2.6	60	44	3.01	2.92					
			10.5	60	47	2.82		2.94	194	12.9	15	570
180		12.7	2.5	60	40½	3.27	2.95					
9:50am			10.2	50	42	2.63		3.00	190	12.7	15	570
195		12.7	2.5	60	40	3.31	3.06					
			10.2	60	47	2.82		3.02	192	12.8	15	580
210		12.9	2.6	60	43	3.09	2.98					
			10.3	60	46	2.88		2.98	198	13.2	15	590
225		13.5	2.7	60	44	3.01	2.98					
			10.8	60	45	2.94		2.99	206	13.7	15	616

No. 2 of 5 Sheets. Comp. by RW Chk. by

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9-275
January 1935

UNITED STATES
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WATER RESOURCES BRANCH

Date 11-11, 1941 **DISCHARGE MEASUREMENT NOTES**

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 vertical	Velocity Mean in section	Area	Mean depth	Width	Discharge
240		13.9	2.8	60	41	3.23	3.00					
			11.1	50	40	2.76		2.98	212	14.1	15	632
255		14.3	2.9	60	41	3.23	2.96					
			11.4	50	41	2.70		2.88	214	14.25	15	616
270		14.2	2.8	60	42	3.15	2.80					
			11.4	50	45	2.46		2.77	213	14.2	15	590
285		14.2	2.8	60	44	3.01	2.74					
10:15 am			11.4	60	54	2.46		2.72	212	14.1	15	577
300		14.0	2.8	60	42	3.15	2.70					
			11.2	50	49	2.26		2.58	204	13.65	15	528
315		13.3	2.7	60	47	2.82	2.46					
			10.6	40	42	2.12		2.44	194	12.9	15	474
330		12.5	2.5	50	43	2.57	2.42					
			10.0	60	59	2.26		2.40	184	12.3	15	442
345		12.1	2.4	50	40	2.76	2.37					
			9.7	40	45	1.98		2.34	182	12.1	15	426
360		12.1	2.4	50	42	2.63	2.32					
			9.7	40	44	2.02		2.14	183	12.2	15	392
375		12.3	2.5	40	42	2.12	1.95					
10:31 am			9.8	40	50	1.78		1.85	180	12.0	15	333
390		11.7	2.3	40	51	1.75	1.75					
			9.4	40	51	1.75		1.54	170	11.3	15	262
405		10.9	2.2	25	42	1.33	1.32					
			8.7	25	43	1.30		1.13	142	9.45	15	160

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January 1935

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WATER RESOURCES BRANCH

Date Nov 11, 1941 **DISCHARGE MEASUREMENT NOTES**

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 vertical	VELOCITY Mean in section	Area	Mean depth	Width	Discharge
420		8.0	1.6	20	42	1.07	.94					
			6.4	15	41	.82		.82	86	5.75	15	70
435		3.5	2.1	15	49		.69					
								.34	40	1.75	23	14
LEW 458		0				0	0					
				Finish		10:45	am		~~4478~~			~~10874~~
									4482			10881

No. 4 of 5 Sheets. Comp. by TW Chk. by

9-275 d
(Sept., 1927)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 11-11-41, 19____ No. of Meas.____

SUPPLEMENTARY DISCHARGE MEASUREMENT NOTES

Brazos River at Richmond, Tex.

Enter on this form ample notes in regard to the following:

1. Accuracy of measurement; 2, gage; 3, observer; 4, bench marks; 5, gage-height corrections; 6, adjustments to total discharge; 7, station equipment; 8, channel, control, and point of zero flow; 9, rating, backwater; 10, diversions, regulation; 11, records; 12, cooperation.

Recorder inspection

Pencil	Stevens Chart Ink Turg. 38	Record	ok clear
Wt. Adj.	no	Chart time	2h 20m 5l.
Paper	dry	Clock Reg.	no

Ink reservoir on pen leaks - removed for repairs.

No. 5 of 5 sheets

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