Au Clock 813
cl. 7-31-45

9-275 c
(July 1935)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

DISCHARGE MEASUREMENT NOTES

Meas. No. 270

Checked by

Date 11-19-45

RECORDED

Brazos River at Richmond, Tex.

Date Nov. 8, 1945 Party W. H. Goines

Width 357 Area 2070 Vel. 0.98 G. H. Disch. 2,030

Method 2-8 No. secs. 25 G. H. change 0.00 in 1.0 hrs. Susp. 30C.5

Method coef. 1.00 Hor. angle coef. As Noted Meter No. 1950 Susp. coef. 1.005

C.S.T. GAGE READINGS				
Time	G. W. T.	Recorder	Inside	Outside
10:15 a	m.		4.77	4.78±
11:05	Start		(4.76+)	
12:05	Finish		(4.76-)	
12:35			4.75±	4.75±
2:00 p	m.	4.75	4.75	4.75±
	Finish			
10:00 a	m. U.S.W.B.	W. Wt.		4.75±
Weighted M. G. H.			4.76	
G. H. correction				
Correct M. G. H.				

Date rated Oct. 3 1944 Used rating for rod Rod susp. Meter 0.5 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 no

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

Flow Smooth Weather Favorable

Other strong upstr. wind

Gage See sheet 4

Record removed Yes Intake flushed Yes

Observer U.S.W.B. observer seen

Control Probably channel

Remarks RATE OF CHANGE IN STAGE: 0.00 ft./HR.

Sheet No. 1 of 4 sheets. G. H. of zero flow ft.

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80 • 75 • str. upstr. wind.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

9-275
January 1935

85 •

Date 11-8-45, 19 ___ DISCHARGE MEASUREMENT NOTES

Brazos River, at Richmond, Tex.

90 •

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	Corr. Area	Mean depth Area	Width	Discharge
LEW 435		0						0	0		7½	0
420		1.8	V	=0				0	31.5		17½	0
400		0.5	V=	0				0	10.0		20	0
380	97	1.9	1.1	15	41			.81	32.3	33.3	17½	26
365	98	2.7	.5	25	51	1.08		.92	39.7	40.5	15	36
			2.2	15	44	.76						
350	98	3.2	.6	30	60	1.11		.96	47.0	48.0	15	45
			2.6	20	55	.81						
335	99	4.2	.8	25	48	1.15		1.02	62.4	63.0	15	64
			3.4	20	49	.90						
320	99	4.5	.9	25	46	1.20		1.04	66.8	67.5	15	70
			3.6	25	63	.88						
305	⊥	5.3	1.1	30	55	1.20		1.08	79.5		15	86
			4.2	20	46	.96						
290		6.3	1.2	25	48	1.15		.98	94.5		15	93
			5.1	20	55	.81						
275	⊥	5.8	1.2	25	46	1.20		1.09	87.0		15	93
			4.6	20	45	.98						
260		6.6	1.3	25	44	1.25		1.12	99.0		15	171
			5.3	20	45	.98						

No. 2 of 4 Sheets. Comp. by W.H.G. Chk. by [illegible]

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75 •

12:35pm 1 4.75±0.02
0 4.75±03

Replaced Cone at 2pm.

9-275
January 1935

2:00pm
1 4.75
0 4.75±03

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 11/8/45, 19 ___ **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
245		7.5	1.5	25	45	1.23		1.06	112	11.25	15	119
			6.0	20	50	.89						
230	⊥	7.8	1.6	25	44	1.25		1.05	117		15	123
			6.2	20	52	.85						
215		7.9	1.6	30	49	1.35		1.14	118	11.85	15	135
			6.3	25	59	.94	29					
200		8.0	1.6	25	44	1.25		1.11	120		15	133
			6.4	25	57	.97	22					
185	⊥	8.0	1.6	25	44	1.25		1.10	120		15	132
			6.4	20	46	.96	21					
170		8.1	1.6	25	44	1.25		1.21	122	12.15	15	148
		4.05	6.5	25	47	1.17						
155		8.2	1.6	25	50	1.11		1.08	123		15	133
			6.6	25	52	1.06						
140	⊥	8.2	1.6	20	48	.92		.90	123		15	111
			6.6	20	51	.87						
125		11.0	2.2	20	52	.85		.76	165		15	125
			8.8	20	66	.68						
110	⊥	11.8	2.4	15	40	.83		.80	148		12½	118
			9.4	15	43	.78						
100		9.7	1.9	20	51	.87		.85	97		10	82
			7.8	15	40	.83						
90		5.5	1.1	15	44	.76		.64	60		11	38
			4.4	15	65	.52						
78		0						0	0		6	0

2014.7

2023 × 1.005 = 2033

12:05 pm

REW

No. 3 of 4 Sheets. Comp. by W.H.G. Chk. by [illegible]

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9-275 d
(Sept., 1927)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 11-8-45, 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 Turq 2B : Record clear

Wt. Adj. no : Chart time 45 m 51

Paper dry : Clock Reg. found to limit Fast.

An recorder should be replaced with Sterens recorder with 75 ft. float-tape - 1.6 can only be read at low stages. El. lower platform 4.7

Well door hinges are rusting, door will not close tight, will cause considerable surge at high stages.

Small cone in well repaired

Replace all wood in cable car soon.

Build a shield over upper vent, to prevent wind from blowing wind on recorder.

No. 4 of 4 sheets

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