9-275 c
(July 1935)

RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

DISCHARGE MEASUREMENT NOTES

Meas. No. 272

Checked by C.P.C.

Date 1-11-46

Brazos River at Richmond, Tex.

Date Jan. 10, 1946 Party W.H. Goines

Width 369 Area 2510 Vel. 1.60 G. H. — Disch. 4020

Method 2-8 No. secs. 24 G. H. change 0.00 in 1:1 hrs. Susp. 30C.5

Method coef. 1.00 Hor. angle coef. Noted Meter No. 1791 Susp. coef. 1.005

GAGE READINGS

Time	~~Gage height~~	Recorder	~~Inside~~ (Tape)	Outside
1:30 p.m.		6.42	6.43	6.43±
3:00	Start		(6.42)	
4:05	Finish		(6.42)	
4:30 p.m.		6.42	6.42	
U.S.W.B.	w. wt			
4:25 p.m.				6.38
	~~Finish~~			
~~Weighted~~ M. G. H.			6.42	
G. H. correction				
Correct M. G. H.				

Date rated June 4, 1943 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 —

Gage ok

Record removed Yes Intake flushed No

Observer —

Control channel

Remarks —

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

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

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9-275
January 1935

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 1-10-46, 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	Corr. Area	Area ~~Mean depth~~	Width	Discharge
		30.05	17.91									
LEW 445		0						0	0		7½	0
430	97	1.6	1.0	10	42			.56	27	~~28°~~	17½	15
410	97	1.9	1.1	15	45			.77	37	~~38°~~	20	28
390	98	2.7	.5	25	46	1.25		1.10	53	~~54°~~	20	58
			2.2	20	48	.96						
370	99	4.1	.8	25	44	1.31		1.17	81	~~82~~	20	95
			3.3	20	45	1.03						
350	99	4.9	1.0	40	54	1.71		1.44	97	~~98~~	20	140
			3.9	25	49	1.18						
330	99	5.6	1.1	40	47	1.96		1.66	97	~~98~~	17½	161
			4.5	25	42	1.37						
315	99	6.1	1.2	40	46	2.00		1.75	91 ~~90~~	~~92~~ ~~91~~	15	159 ~~158~~
			4.9	30	46	1.50						
300	99	6.7	1.3	40	49	1.88		1.69	99 ~~100~~	~~100~~ ~~105~~ 5	15	167 ~~169~~
			5.4	30	46	1.60						
285	99	7.0	1.4	40	46	2.00		1.77	104	~~105~~	15	184
			5.6	30	45	1.54						
270	99	7.5	1.5	40	44	2.09		1.85	111	~~112~~ ~~112~~ 5	15	205
			6.0	30	43	1.61						
255	99	8.0	1.6	40	44	2.09		1.85	119	120	15	220
			6.4	30	43	1.61						

No. 2 of 4 Sheets. Comp. by W.H.G. Chk. by C.R.C.

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80 • 75 •

58.58 Corr 58.57 6.38 430 pm T 642

2-2½ x 3/8 bolts

Dixon 3B

UNITED STATES
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WATER RESOURCES BRANCH

9-275
January 1935

85 •

Date 1-10-46, 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	Area	Mean depth	Width	Discharge
240	99	8.5	1.7	40	45	2.05		1.89	127	~~128~~	15	240
			6.8	30	40	1.73						
225	⊥	8.8	1.8	40	43	2.14		1.92	132	~~132~~	15	25~~4~~3
			7.0	40	54	1.71						
210	⊥	9.3	1.9	40	45	2.05		1.76	140		15	246
			7.4	30	47	1.47						
195		9.2	1.8	40	44	2.09		1.93	138		15	266
			7.4	40	52	1.77	386					
180		9.6	1.9	40	46	2.00		1.90	144		15	274 ~~273~~
			7.7	40	51	1.81						
165	⊥	9.8	2.0	40	53	1.74		1.74 ~~1.74~~	147		15	256
			7.8	30	40	1.73						
150		9.5	1.9	30	41	1.69		1.56	142		15	222
			7.6	30	48	1.44						
135		9.9	2.0	25	41	1.41		1.26	148		15	186
			7.9	20	42	1.10						
120		12.5	2.5	25	41	1.41		1.44	188		15	271 ~~270~~
			10.0	30	47	1.47						
105	⊥	12.6	2.5	25	40	1.44		1.34	189		15	253
			10.1	25	46	1.25						
90		7.1	1.4	20	48	.96		.94	103		14½	97
			5.7	20	50	.93						
76		0						0	0		7	0
REW												3996
												×1.005
									2514		369	4016

4:05 pm

No. 3 of 4 Sheets. Comp. by W.H.G Chk. by C.R.C.

75 •

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9-275 d
(Sept., 1927)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 1-10-46, 19____ No. of Meas.____

SUPPLEMENTARY DISCHARGE MEASUREMENT NOTES

Brazos R. 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 Dixon 3B : Record clear

Wt. Adj. no : Chart time 20m Sl.

Paper dry : Clock Reg. no

Well not inspected for mud.

No. 4 of 4 sheets

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