9-275 c
(July 1935)

RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

DISCHARGE MEASUREMENT NOTES

Meas. No. 240

Checked by NEB

Date 7/26/44

Brazos River at Richmond, Tex.

Date May 2, 1944 Party Goines and Longacre

Width 340 Area 2430 Vel. 1.62 G. H. ____ Disch. 3940

Method 2-8 No. secs. 20 G. H. change +0.34 in 0.8 hrs. Susp. 30c.5

Method coef. 1.00 Hor. angle coef. 1.00 Meter No. 1765 Susp. coef. 1.005

GAGE READINGS				
Time	C. W. T.	Recorder	~~Inside~~ Tape	Outside
9:30	m	5.63	5.64+	5.62
10:00	Start		(5.86)	
10:45	Finish		(6.20)	
11:05		6.36+	6.35	6.34±
	Finish			
~~Weighted~~ M. G. H.			6.03	
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 not read, changed to — at —

Correct length —

Levels obtained —

Measurement rated ~~excellent (2%)~~, good (5%), ~~fair (8%), poor (over 8%)~~, based on following conditions: Cross section Plotted on x-sect attached to meas. of 5/3/44

Flow Smooth Weather light rain

Other —

Gage ok

Record removed no Intake flushed No

Observer —

Control channel

Remarks Rising 0.45 ft/hr

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

T 5.64+
P 5.63
O 5.62 9:30

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January 1935

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 5/2/44, 19__ DISCHARGE MEASUREMENT NOTES

Brazos River, at Richmond, Tex.

10:00

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
		Comp by mid-sect method										
LEW 422		0						0	0		6	0
410		2.8	1.7	7	41			.39	38		13½	15
395		3.9	2.3	20	50			.89	58		15	52
380	⊥	3.6	2.2	20	46			.97	3 60		17½	61 ~~58~~
360		3.4	2.2	25	48			1.16	72		20	84
340		4.9	2.9	30	42			1.58	98		20	155
320		6.3	1.3	40	42	2.10		1.65	126		20	208
			5.0	25	46	1.20						
300	⊥	7.2	1.4	40	41	2.15		1.70	144		20	244
2 10:20			5.8	30	53	1.25						
280		7.7	1.5	40	40	2.20		1.76	154		20	271
			6.2	30	50	1.33						
260		8.3	1.7	50	49	2.24		1.86	166		20	308
			6.6	30	45	1.47						
240		8.8	1.8	50	46	2.39		1.98	176		20	349
			7.0	30	42	1.58						
220	⊥	9.1	1.8	50	48	2.29		1.90	182		20	346
2 10:30			7.3	30	44	1.51			1171		112	

No. 2 of 4 Sheets. Comp. by WHG JKL Chk. by

80 • 75 •

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WATER RESOURCES BRANCH

9-275
January 1935

85 •

Date 5/2/44, 19__ DISCHARGE MEASUREMENT NOTES

90 • 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
									1277			
200		9.3	1.9	50	50	2.20		1.82	186		20	338
			7.4	30	46	1.44						
180		9.8	2.0	50	50	2.20		1.84	196		20	360
			7.8	30	45	1.47						
160	⊥	10.4	2.1	40	46	1.92		1.76	208		20	366
			8.3	40	55	1.61	353					
140		9.9	2.0	30	46	1.44		1.42	198		20	281
			7.9	30	47	1.41						
120		11.6	2.3	30	42	1.58		1.42	203		17½	288
			9.3	25	44	1.26						
105		8.9	1.8	30	47	1.41		1.35	111		12½	150
			7.1	25	43	1.29						
95		4.4	2.6	20	48			.93	51		11½	47
82		0						0	0		6½	0
LEW												1830
									2427			
10:45 am				T	6.35						3	3920
				P	6.36 +		11:05 am					×1.005
				O	6.34 ±							3,940

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

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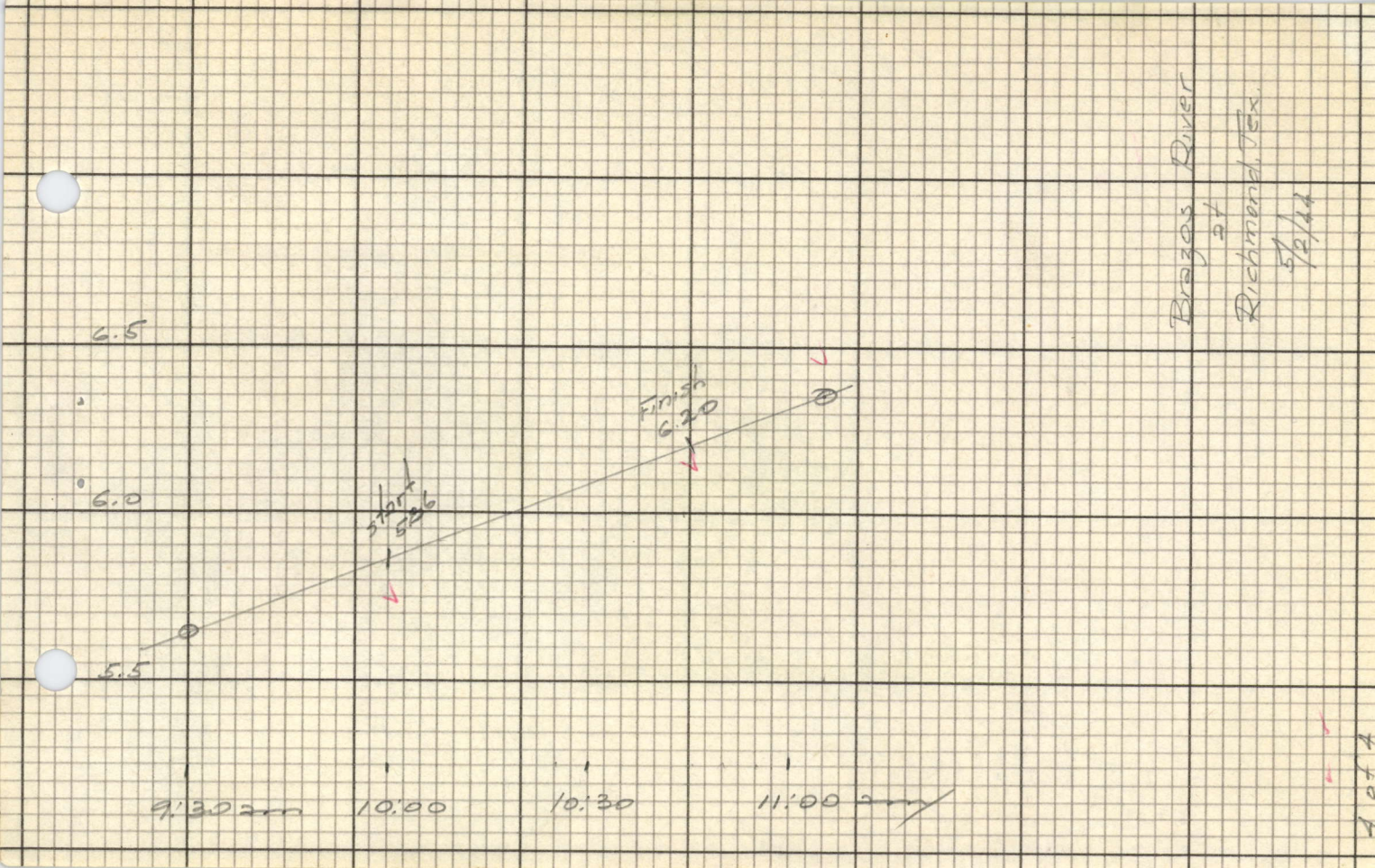
Brazos River
at
Richmond, Tex.
5/2/44
6.5
6.0
5.5
Start
5.86
Finish
6.20
9:30 am
10:00
10:30
11:00 am