

5828

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Form 504  
Rev. Dec. 1933  
DEPARTMENT OF COMMERCE  
U.S. COAST AND GEODETIC SURVEY  
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. 11  
Hydrographic }

State Louisiana

LOCALITY

Oyster Bayou and Vicinity.

Fourleague Bay

1935

CHIEF OF PARTY

Thos. B. Reed

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 11

REGISTER NO. 5828

State Louisiana

General locality Fourleague Bay.

Locality Oyster Bayou and Vicinity

Scale 1:10,000 Date of survey Mar. 10 to April 13, 1935

Vessel Field Party No. 4.

Chief of Party Thos. B. Reed

Surveyed by E. H. Maher, J. C. Tribble

Protracted by H. L. Proffitt

Soundings penciled by H. L. Proffitt, T. F. Donlon

Soundings in ~~fathoms~~ feet

Plane of reference M. L. W.

Subdivision of wire dragged areas by

Inked by A. Stiles

Verified by " "

Instructions dated June 26, Sept. 15, 1934; Jan. 19, Feb. 4, 1935

Remarks:

DESCRIPTIVE REPORT  
to accompany

Hydrographic Sheet No. 11, Oyster Bayou and Vicinity.

Louisiana

Field Party No. 4.

Thos. B. Reed, Chief of Party

Project H. T. 156.

DATE OF INSTRUCTIONS: June 26, September 15, 1934; January 19,  
February 4, 1935.

DATE OF SURVEY: March 10 to April 13, 1935.

SURVEY METHODS:

This survey was made by the usual launch hydrographic methods, using a pole, marked to feet, for the shoaler soundings and a standard lead line for the deeper. Sounding lines were run as close to the beach as possible.

DISCREPANCIES:

Discrepancies in the records necessitating changes of objects or angles are noted in the sounding records by the smooth plotter. Oyster reefs in the bayou were sketched on the boat sheet by the hydrographer from adjacent sounding lines. The several pipes and the wooden stake shown on the sheet were located on topographic Sheet "K". These pipes and stake were placed by local residents to mark the above reefs. Pipes are about 3 inches in diameter.

During the first several days sounding in the bayou the positions were plotted with signal SET about 100 meters in error. Rather than erase and change all the soundings in the bayou another boat sheet (No. 11a) was made and the positions replotted and the remainder of the lines in the bayou were run on Boat Sheet 11a.

There are strong tidal currents in Oyster Bayou and on some of the lines run with the current the spacing is ~~too~~ long between soundings.

GENERAL DESCRIPTION:

This sheet includes Oyster Bayou, a section of the Gulf to the Southward, Bay Castagnier and the southern end of Four League Bay. The entire area is marsh, with a considerable number of Oyster reefs along the shores and in the bayou. With the exception of Oyster Bayou Light the two shrimp platforms and the adjacent buildings are the most prominent objects in the locality.

COMPARISON WITH PREVIOUS SURVEYS:

A comparison with sheet No. 2996 (1909) shows that some shoaling has occurred in the southern end of Four League Bay and at the southern entrance to Oyster Bayou. Oyster Bayou was not developed sufficiently on the old survey for making a comparison.

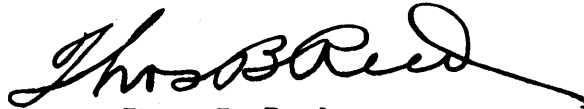
JUNCTION WITH CONTEMPORARY SURVEYS:

This sheet joins on the north with Sheet No. 10 and on the south with Sheet No. 9.

TIDE REDUCERS:

Tidal reductions are shown on the attached sheets.

Respectfully submitted,



Thos. B. Reed,  
Lieut., C. & G. Survey,  
Chief of Field Party No. 4.

Verification report - H-5828 - (1935)

Generally the records conformed to instructions <sup>of manual,</sup> ✓

The depth curves were completely drawn ✓

The smooth sheet was checked with the boat sheet positions showing possibility of error were checked

No serious discrepancies were revealed altho a ✓  
few positions were changed to conform with records.

It was not necessary for the office draftsman to do over any part of the field parties work except for ✓  
some minor corrections.

The air compilation sheet is ~~not~~ complete at this time it was therefor ~~not~~ possible to make careful comparison.

The grass islands north east of signal "Duffy" ✓  
were indicated with a low water line after investigation in Topographic section who disclosed that these islands were covered at high water.

Junction with H-5838 (1935) and H-5827 - (1935) was ✓  
not made the sheets not being completely verified.

Respectfully submitted

A. Stiles

Satisfactory comparison was made with T-6324 - (1935) ✓

Air compilation sheets used for ~~partial~~ comparison T-5389 - T-5562 -  
complete and satisfactory

STATISTICS FOR SHEET NO. 11

YEAR 1935	DAY	VOL.	STATUTE MI.	NUMBER	NUMBER
DATE -----	LETTER ---	NO. -----	SDG. LINES ---	SOUNDINGS ---	POSITIONS ---
March 10	a	1	18.0	620	131
" 11	b	1	18.0	686	115
" 20	c	1	25.8	689	97
" 21	d	2	6.8	171	23
" 22	e	2	10.5	276	37
" 25	f	2	11.9	365	78
" 26	g	2	2.1	57	14
April 11	a	3	5.8	231	50
" 13	b	3	3.8	135	25
TOTAL -----			102.7	3230	570

NO. SQ. MILES OF SOUNDING AREA --- 7.0

Field Records Section (Charts).

HYDROGRAPHIC SHEET NO. **.5828**

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	<b>.570..</b>
Number of positions checked	<b>.56..</b>
Number of positions revised	<b>..2...</b>
Number of soundings recorded	<b>2330..</b>
Number of soundings revised	<b>..23..</b>
Number of signals erroneously plotted or transferred	<b>...0..</b>

Date:

Verification by	<b>A Stiles.</b>	Time: <b>34½ hours</b>
Review by	<b>John G. Ladd.</b>	Time: <b>6 "</b>
<b>add'l. Verification</b>	<b>" " "</b>	<b>2½ "</b>

HYDROGRAPHIC SURVEY NO. 5888

Smooth Sheet 1

Boat Sheet 2

Sounding Records 3 Vols. \_\_\_\_\_

Descriptive Report Yes

Title Sheet Yes

List of Signals Yes in Vol. 1

Landmarks for Charts (Form 567) No

Statistics Yes

Approved by Chief of Party T. B. Reed

Recoverable Station Cards (Form 524) Yes

Special Chart for Lighthouse Service No  
(Circular Nov. 30, 1933)

Remarks \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



Date July 18, 1935

**GEOGRAPHIC NAMES  
LOUISIANA**

Survey No. H5828

Chart No. 1116

Diagram No. 1116

Approved by the Division of Geographic Names, Department of Interior. ✕

Referred to the Division of Geographic Names, Department of Interior. R

Under investigation. Q

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>Fourleague Bay</u>	Same <sup>(1116)</sup>			
	<u>Oyster Bayou</u>	"			
	<u>Bay Castagnier</u>	"			
		APPROVED NAMES UNDERLINED IN RED H. L. F. [Signature]			

TIDE NOTE FOR HYDROGRAPHIC SHEET

July 26, 1935.

Division of Hydrography and Topography:

✓ Division of Charts: Attention: Mr. E. P. Ellis

Tide Reducers are approved in  
3 volumes of sounding records for

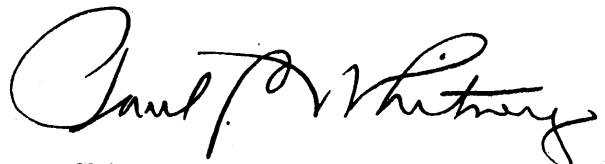
HYDROGRAPHIC SHEET 5828

Locality Oyster Bayou and Vicinity, Coast of Louisiana.

Chief of Party: Thos. B. Reed in 1935  
Plane of reference is mean low water reading  
1.4 ft. on tide staff at Eugene Island  
4.2 ft. below B.M. 1  
3.2 ft. on tide staff at Oyster Bayou  
1.7 ft. below B.M. 1

Height of mean high water above plane of reference is 1.3 feet at Eugene Island; 0.9 foot at Oyster Bayou.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5828 (1935) - FIELD NO. 11

Oyster Bayou and Vicinity, Fourleague Bay, Louisiana  
Surveyed in March - April, 1935  
Instructions dated January 19, 1935

Hand Lead and Pole Soundings.

3 Point Fixes on Shore Signals.

Chief of Party - T. B. Reed.  
Surveyed by - E. H. Maher, T. C. Tribble.  
Protracted by - H. L. Proffitt.  
Soundings penciled by - H. L. Proffitt, T. F. Donlon.  
Verified and Inked by - A. Stiles.

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual.

The "Descriptive Report" is complete and adequately covers all matters of importance.

2. Compliance with Instructions for the Project.

The survey satisfies the instructions for the project.

3. Shoreline.

The shoreline and topographic signals originate with T-5389 (1931), T-5662 (1931), T-6322 (1935), T-6323 (1935) and T-6324 (1935).

4. Sounding Line Crossings.

No regular system of crosslines was run, however those that do occur in the normal development of the work, together with the parallel adjacent lines are in good agreement.

5. Depth Curves.

Within the limits of the survey the usual depth curves may be satisfactorily drawn.

6. Junctions with Contemporary Surveys.

The junctions with H-5827 (1935) on the south and H-5838 (1935) on the north will be considered in the reviews of those surveys.

7. Comparison with Prior Surveys.

a. H-1831 (1888-9).

This survey on a scale of 1:80,000 makes a small overlap with the present survey on the south. It contains no soundings that are in conflict with the present survey.

b. H-2996 (1909).

A comparison between this survey, which is on a 1:20,000 scale, and the present survey reveals numerous changes in depths of the channel and shoals, as well as extensive changes in shoreline. The area in the vicinity of the mouth of Oyster Bayou has uniformly shoaled and the shoreline receded at least 150 meters, a number of small islets have disappeared in the southern end of Fourleague Bay. Numerous oyster reefs are now shown in the Bayou that were not on the previous survey. Further discussion of the changes noted is omitted since it would serve no useful cartographic purpose. H-2996 (1909) should be superseded by the present survey for charting purposes.

8. Comparison with Chart No. 1116 (Corrected to March 13, 1935).

a. Hydrography.

Within the area of the present survey the chart is based on surveys discussed in the foregoing paragraphs and contains no additional information that needs consideration in this review.

b. Aids to Navigation.

None of the aids to navigation shown on the present survey are on the present chart with the exception of "Oyster Bayou Light" at the mouth of Oyster Bayou, which is in substantially the same position as charted.

9. Field Plotting.

The field plotting was satisfactory.

10. Additional Field Work Recommended.

No additional field work is required.

11. Superseding Old Surveys.

Within its limits the present survey supersedes the following surveys for charting purposes:

H-1831 (1888-9) in part.  
H-2996 (1909) " "

12. Reviewed by - John G. Ladd, September 26, 1935.

Inspected by - A. L. Shalowitz.

Examined and approved:

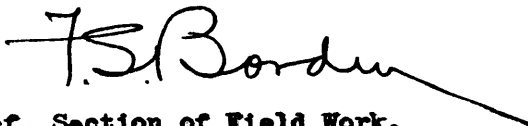
C. K. Green,  
Chief, Section of Field Records.



Chief, Division of Charts.



Chief, Section of Field Work.



Chief, Division of H. & T.



Applied to Chart 1050 May 1937  
" " " 1275 " "

Chas. P. Bush Jr  
JTD *[Signature]*