

6024

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

**DESCRIPTIVE REPORT**

~~XXXXXXXXXX~~ } Sheet No. S (T-5038)  
Hydrographic } 6024

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State CALIFORNIA

LOCALITY

SAN JOAQUIN DELTA

OLD RIVER, VICINITY OF BETHANY

---

1934

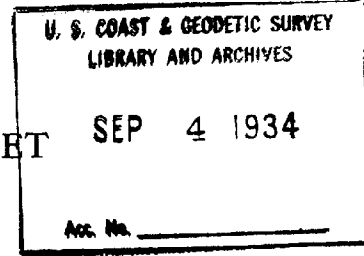
CHIEF OF PARTY

L. P. RAYNOR

6024

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET



REG. NO. 6024

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. S (T-5038)

REGISTER NO. 6024

State CALIFORNIA

General locality SAN JOAQUIN DELTA

Locality OLD RIVER, VICINITY OF BETHANY

Scale 1:10,000 Date of survey May-June, 1934

Vessel HELEN F (Lease Launch)

Chief of Party L. P. RAYNOR

Surveyed by L. P. RAYNOR

Protracted by T. M. MEANS

Soundings penciled by N. G. KORNEEFF

Soundings in ~~fathoms~~ feet

Plane of reference M L L W

Subdivision of wire dragged areas by

Inked by E.R.Behn

Verified by E.R.Behn

Instructions dated SEPTEMBER 2, 1933 et.al., 19

Remarks:

HYDROGRAPHIC TITLE SHEET

Field No. S (T-5038)

STATE: CALIFORNIA

GENERAL LOCALITY: SAN JOAQUIN DELTA

LOCALITY: OLD RIVER, VICINITY OF BETHANY

SCALE: 1:10,000      DATE OF SURVEY: MAY-JUNE, 1934

VESSEL: HELEN F (Leased Launch)

CHIEF OF PARTY: L. P. RAYNOR

SURVEYED BY: L. P. RAYNOR

PROTRACTED BY: T. M. MEANS

SOUNDINGS PENCILED BY: N. G. KORNEEFF

SOUNDINGS IN FEET

PLANE OF REFERENCE: M L L W

INSTRUCTIONS DATED: SEPTEMBER 2, 1933, et.al.

DESCRIPTIVE REPORT

of

HYDROGRAPHIC SHEET S (T-5038)

AUTHORITY, LIMITS, DATES:

The AUTHORITY for this work is contained in the following letters;

1. 22 LE 1990 March 17, 1933
2. 22 AHH 1990 August 12, 1933
3. SUPPLEMENTAL INSTRUCTIONS  
PROJECT 98 HT Sept. 2, 1933
4. 26 RS 1990 Nov. 9, 1933
5. 22 AHH 1990 Nov. 16, 1933
6. 22 MEN 1990 Dec. 2, 1933

This sheet covers that small portion of Old River between Latitude  $37^{\circ} 48\frac{1}{2}'$  and  $37^{\circ} 47\frac{1}{2}'$ . The hydrography was accomplished on May 25 and June 5, 1934, by a party in charge of the Chief of Party.

GENERAL NOTES:

This part of Old River is seldom used either by commercial or pleasure craft. The controlling depth of that section shown on this sheet is 6 feet in the vicinity of White House Landing. There are high levee banks overgrown with trees and bushes on each side of the river. There was no indication that there had been any dredging done in this section in recent years. Low, overhanging trees extend some 5 to 10 meters out into the river at many places on both levees.

SURVEY METHODS:

Signals were located by:

1. Spotting directly on the boat sheet in the field from details as shown by the photo compilation.
2. By planetable traverse. The signals located by this traverse are indicated by red circles on the boat sheet and letter (P). A traverse was started on the levee at ORW 7 and run to a closure of about 5 meters with ORM 3, a spotted station. This closure in a distance of about 1 mile was unadjusted.

Boat positions were located by range finder readings taken simultaneously with compass bearings. Range finder calibration tests are shown in Range Finder Book #2. No three-point fixes were used due to narrowness of the river. All soundings were made with a 24 ft. pole graduated in fathoms and feet, which was turned end for end after each sounding.

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Soundings were taken to tenths of feet and reduced to nearest half-foot. Soundings are plotted in  $\frac{1}{2}$  feet up to 9 feet and even feet from 10 feet and over in accordance with letter of Instructions of December 2, 1933. Smooth plotting was done on an aluminum sheet coated with tanned gum arabic and on which the photo compilation had been printed.

*\* In the photo compilation were plotted in half feet only in critical and limiting depths which in accordance with the liberty allowed in the instructions - H.P.M.*

LANDMARKS:

List of Landmarks was submitted with Descriptive Report of the photo compilation of this sheet. *None submitted for this sheet, according to remarks in D.R. T-5038, it is probable that there are no natural landmarks in this vicinity - H.P.M.*

TIDAL DATA:

Tide reducers were obtained from the records of the standard automatic gage maintained at the Clifton Court Ferry on Old River, corrections for time of tide being made as indicated in red on the boat sheet. Readings of the staff corresponding to the reductions to be made are shown in Descriptive Report accompanying hydrographic sheet T-5035.

STATISTICS:

DATE	DAY	VOL	MILES	SOUNDINGS	POSITIONS
May 25	A	1	5.3	369	35
June 5	B	1	<u>0.1</u>	<u>17</u>	<u>2</u>
TOTALS			5.4	386	37

HYDROGRAPHIC SIGNALS: 11

*L.P. Raynor  
H.P.M. Eng'r  
Chief of Party*

September 18, 1934

Division of Hydrography and Topography:

✓ Division of Charts:

Tide Reducers are approved in  
1 volume/s of sounding records for

HYDROGRAPHIC SHEET 6024

Locality Old River, Vicinity of Bethany, San Joaquin Delta, Calif.

Chief of Party: L. P. Raynor in 1934

Plane of reference is mean lower low water, reading

5.7 ft. on tide staff at Clifton Court Ferry

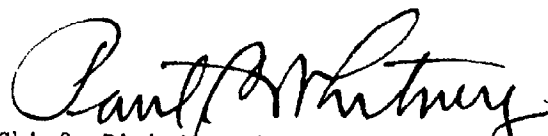
14.6 ft. below B. M. 1

4.2 ft. on tide staff at Naglee Bridge, Old River

8.6 ft. below B.M. 1

Height of mean higher high water above plane of reference is 3.6 feet.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. 6024..

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

Number of positions on sheet	...37..
Number of positions checked	....3..
Number of positions revised	.....
Number of soundings recorded	386...
Number of soundings revised	.....
Number of signals erroneously plotted or transferred	.....

Date:.....October 20, 1934.....

Cartographer:.....E. R. Behn.....

Verification of plotting Verification & inking of marks and sheets)	by E. R. Behn	Time: 1/2 hr
Verification of inking by	E. R. Behn	Time: 5 1/2 hr
Review by	Harold W. Murray	Time: 1/2 "

Section of Field Records.

Report on H-6024.

Chief of Party --L.P. Raynor.  
Protracted by T.M. Means.  
Verified and inked by E. R. Behn.  
Surveyed in May-June 1934.  
Surveyed by L.P. Raynor.  
Soundings plotted by N. G. Korneeff.

The records conform to the requirements of the general instructions. ✓

Depth curves could be completely drawn within the limits of the hydrography; only the 6 and 12 foot curves could be shown, the maximum depth being 17 feet. In three specific places in the vicinity of ORW 4 and ORW 5 the 12 foot curve was intentionally omitted due to the closeness of the soundings and to avoid confusion with the 6 foot curve. ✓

In verifying and inking this sheet all fractions were omitted. This was contrary to the second paragraph on page 2 of the accompanying descriptive report. *(See remarks added under this paragraph on page 2 - Behn)* ✓

This sheet joins in the south east with H 6023 and in the north west with H 6019. These sheets have not been inked or verified to date. ✓

The field drafting was legible, neat and uniform. ✓

Submitted by

E. R. Behn.  
10/19/34.

*No landmarks for charts covering this area were submitted.  
See remarks on page 2 - Behn. 10/15/34*

*G.R.B.*



## GEOGRAPHIC NAMES

Nov. 22, 1934

Date. \_\_\_\_\_

Chart No. \_\_\_\_\_

HMS Names underlined in red approved Nov. 23, 1934 Diagram No. \_\_\_\_\_

\* Approved by the Division of Geographic Names, Department of Interior.

Ø, Not Approved by the Division of Geographic Names, Department of Interior.

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

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>Union Island</u>	Established usage shown on all maps early and recent			
	<u>Old River</u>	"			
	<u>Bethany</u>	U.S. Postal Guide, 1934			
	<u>Byron-Bethany Irrigation District</u>	Official name: see Hearings before the Committee on flood control, House of Representatives, 70th Cong. 1st Sess., 1927, part, 2, p. 68, contained in a compilation of bulletins published as "Sacramento-San Joaquin Flood Control 1916-1930, Washington, G.P.O.			
	<u>Mournian Tract</u>	The name, Thomas Mournian, appears as owner of a large tract of land in the same location as Mournian Tract, map of San Joaquin County and vicinity, 1916, compiled by Budd and Widdows. The Weathered Map spells the name <u>Mounian</u> , obviously a misspelling. Map of San Joaquin County, Compton, 1895 uses <u>Mournian</u>			
	<u>Mountain House Creek</u>	This spelling appears on: Topographical map of Central California, by State Geological Survey of California, 1873, 1" to 6 miles. San Joaquin Valley Tulare Lake to Suisun Bay, sh. 2, by Corps of Eng. in cooperation with department of Engineering, State of California. Field reports of U.S.C. & G.S. U.S.G.S. Quadrangle Bethany, and others evidently following it use <u>mountainhouse</u> , conforming to the principle of the U.S.G.B. favoring one word. However, since reports from the field men of the U.S.C. & G.S. give it in two words, would follow them, as probable local usage. No U.S.G.B. decision.			
	<u>Alameda County</u>	Local usage and reliable maps			
	<u>San Joaquin County</u>	"			
	<u>Naglee-Burke Tract</u>	"			
		For authorities consulted see DR-T-5027			

AMS<sup>(M 100)</sup>

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6024 (1934).

Old River, Vicinity of Bethany, San Joaquin Delta, California.

Instructions dated Sept. 2 and Mar. 17, 1933 (L.P.Raynor).

Surveyed May - June, 1934.

Pole Soundings. Control - Range Finder Distances and Compass Bearings.

Chief of Party: L. P. Raynor.

Surveyed by: L. P. Raynor.

Protracted by: T. M. Means.

Soundings penciled by: T. M. Means.

Verified and inked by: E. R. Behn.

1. Condition of Records.

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

2. Compliance with Instructions for the Project.

The plan, character and extent of the survey satisfy the instructions for the Project.

3. Sounding Line Crossings.

There are no cross lines on this survey. The waterway is too narrow and the scale of the sheet too small to run such lines.

4. Depth Curves.

The usual depth curves may be satisfactorily drawn.

5. Junctions with Contemporary Surveys.

The junctions with H-6019 (1934) and H-6023 (1934) will be considered in the review of those sheets.

6. Comparison with Prior Surveys.

The office has no record of any prior surveys made within the limits of the present survey.

7. Comparison with Chart.

There is no published chart covering the area of this survey.

8. Field Plotting.

The field protracting and plotting were excellent and conform to the requirements of the Hydrographic Manual.

9. Additional Field Work Recommended.

This survey is complete, no additional field work is required.

10. Superseding Previous Surveys.

Within the limits of the present survey, there are no previous surveys to be superseded.

11. Reviewed by: Harold W. Murray, October 25, 1934.

Inspected by: A. L. Shalowitz.

Examined and approved:

*K. T. Adams*

K. T. Adams,  
Chief Section of Field Records.

*L. O. Robert*

Chief, Division of Charts.

*J. S. Borden*

Chief, Section of Field Work.

*G. H. Hude*

Chief, Division of H. & T.