

4604

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Form 504

U. S. COAST AND GEODETIC SURVEY  
DEPARTMENT OF COMMERCE

**DESCRIPTIVE REPORT**

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Type of Survey *Hydrographic*  
Field No. .... Office No. *4604*

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LOCALITY

State *Florida*  
General locality *Off Santa*  
Locality *Rosa Island*  
*Gulf Coast of Florida*  
*S.E. of* 1926/27  
*Pensacola*

CHIEF OF PARTY  
*R. L. Scheppe*

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LIBRARY & ARCHIVES

DATE .....

DESCRIPTIVE REPORT

to accompany

SHEET "A"

OFF SANTA ROSA ISLAND

GULF COAST OF FLORIDA

NOV. 1926 - JAN. 1927.

DESCRIPTIVE REPORT

to accompany

SHEET "A"

OFF SANTA ROSA ISLAND

GULF COAST OF FLORIDA

NOV. 1926 - JAN. 1927

The limits of hydrography on this sheet are from Long. 87° 00' to Long. 86° 47' and from the 4 fathom curve off Santa Rosa Island southward to Lat. 30° 08'.

The work on this sheet was performed under instructions dated October 12, 1926. The sheet is unfinished, work having been suspended by telegraphic orders dated January 18, 1927. Originally the work was laid out on two sheets;- One with scale of 1/20,000 and one with scale of 1/80,000. On account of the small area covered it was found possible to plot it all on a scale of 1/40,000. This was done according to the Directors telegram dated January 26, 1927. This accounts for work done under two letters on the same date.

Most of the work was controlled by sextant fixes an shore signals. A small area on the South West part of the sheet was controlled by Bordens method of "Buoy Control". A copy of ship swing and log tests is forwarded herewith.

The bottom is entirely sandy in the area covered. An attempt was made to secure bottom samples in accordance with the Directors letter of November 12, 1926 but on account of the coarsness

*telegraph snappers furnished by Office*  
of some of the grains of sand, the ~~ordinary bottom specimen cups~~  
*\* telegraph snapper*  
failed repeatedly to bring up samples. A ~~Stollwagern cup~~ was re-  
constructed on the vessel and a few tests of it seemed to indicate  
that it would function in that character of bottom. For the above  
reason the desired bottom specimens were not secured.

O.H.  
P.F.S.

Weather conditions at this season of year are not favorable for close inshore work and a few poor crossings must be explained by the effect of swells running while the sounding was in progress. It seems to be a local characteristic that ridges exist more or less parallel to the shore and a few sharp differences of depth were found on the slope of these ridges. The spacing of lines is in accordance with the instructions.

At the close of work, a large amount of preparatory work had been done which had to be abandoned. Five tall signals were ready for use, four buoys had been placed and a number of other buoys had been prepared for use. The signals for inshore launch work were also located. It is regretted that there was no opportunity to use these signals.

A table of statistics is attached.

\* The failure was due to the lodgement of grains of sand in the joint (and not at the tip of the cups).  
P.F.S.

Respectfully submitted,

*Ray L. Schoppe*  
Ray L. Schoppe, Chief of Party



IN REPLY ADDRESS THE DIRECTOR  
U. S. COAST AND GEODETIC SURVEY  
AND NOT THE SIGNER OF THIS LETTER

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

August 19, 1927.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4604

Off Santa Rosa Island, Florida

Surveyed in 1926; 1927

Instructions dated October 12, 1926.

Chief of Party, R. L. Schoppe.

Surveyed by R. L. S. and C. A. Egner.

Protracted by C. A. E. and R. C. Overton.

Soundings plotted by C. A. E. and F. G. Johnson.

Verified and inked by A. L. Shalowitz.

1. The records conform to the requirements of the General Instructions. They were clean and legible and contained information necessary for a proper verification of the sheet.
2. The plan and character of the survey conform to the requirements of the General Instructions.
3. The plan and extent of development as far as the survey goes satisfy the specific instructions with the exception that an insufficient number of cross lines were run. This was probably due to the sudden termination of the season's work (see Descriptive Report).
4. The information is sufficient for drawing the usual depth curves.
5. The usual field plotting was done by the field party and was generally well done. The protracting of the 3 point fixes was characterized by a number of errors due to the use of an erroneous signal or the incorrect laying off on the protractor of one of the angles. The protracting of the work beyond shore fixes was carefully checked. The cuts and fixes for the locations of the inshore buoys A and B were carefully plotted. The office plotting of buoy B agreed well with the field plotting and was therefore accepted. Buoy A was shifted approximately 80 meters to the southward, this being considered as the best location.

The outer buoys, C and D, located by Borden's full speed run method were checked. D remained as plotted by the field party but C was shifted about the same distance as A was.

Owing to the new locations of buoys A and C, the positions on L day required a slight adjustment. Positions 9 - 19 P agreed with the field plotting. The line from 20 to 28 P was readjusted causing a slight shift in the positions. The line between 28 and 32 P was replotted by one angle, time and course. This gave a better spacing of the positions and conformed more to the actual distance registered by the log. On N day the entire line was replotted and adjusted owing to an error made in the computation of the dead reckoning abstract. The sounding record notes that log No. 185 was used on this day, but the computation was made based on log No. 181 with entirely different log factors. The corrections are shown in red on the abstract. On the final adjustment of the recomputed line, there was only a slight variation from the original field plotting.

It is believed that with the method adopted on the offshore work no great discrepancies in the locations of the lines could have occurred. The accurate locations of buoys C and D definitely fix the offshore ends of the lines.

6. The sounding line crossings are generally good. There are a number of places where the cross lines differ by 2 and 3 feet. This is explained by the fact that a 3 foot ground swell was running during the progress of the work. Such soundings were usually the deeper, hence the charts will not be affected since the compiler would use the shoaler soundings in such cases.
7. A junction was effected with H. 4139 surveyed in 1920. The later survey seems to be generally shoaler by several feet. This may be due to the uneven bottom.

The junction with the offshore sheet, H. 4133, is satisfactory.

A comparison with H. 1309 (surveyed in 1875) discloses no marked changes. There are differences in places of several feet, but this is to be expected in an area that is characterized by a series of narrow ridges. The 10 fathom curve appears to have shifted approximately 200 meters to the southward.

8. A 10 fathom recorded sounding between 36 and 37 F was questioned in the record with a note that it is probably 13 fathoms. As the adjacent sounding lines show no indication of such shoaling, it was assumed that an error was made in reading the leadline and 78 feet was plotted. The location of the sounding is Lat. 30° 15' 1600 m., Long. 86° 55' 184 m.

9. This survey is of course not complete. Additional work should be done to extend the work to the beach and when the work is extended to the eastward the blank spaces between lines at the eastern end of this survey should be filled in.
10. Character and scope of field operations - excellent.  
Field drafting - very good.
11. There is no verification report for this sheet, the substance having been incorporated in this review.
12. Reviewed by A. L. Shalowitz, August, 1927.

Approved:

Chief, Section of Field Records (Charts)

*L. O. Pollard*

Chief, Section of Field Work (H. & T.)

*Additional work required, when surveys  
are continued in this vicinity.*



March 29, 1917.

(11)

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in  
4 volumes of sounding records for

HYDROGRAPHIC SHEET 4604

Locality: FLORIDA WEST COAST.

Chief of Party: R. L. Schoppe  
Plane of reference is M L W  
7.7 ft. on tide staff at Pensacola

Condition of records satisfactory except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of each day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.



Chief, Division of Tides and Currents.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4604

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. "A"

REGISTER NO. 4604

State Florida

General locality Gulf of Mexico SE. of Pensacola

Locality Off Santa Rosa Island

Scale 1:40000 Date of survey Nov. 30, 1926 to Jan. 20, 1927

Vessel Bache

Chief of Party Ray L. Schoppe

Surveyed by Ships officers

Protracted by R. C. Overton

Soundings penciled by E. G. Johnson

Soundings in ~~fathoms~~ feet

Plane of reference M. L. W.

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated October 12, 1926

Remarks: Work suspended according to Director's telegram of January 18, 1927