

5165

5165

Form 504  
Ed. June, 1928

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
R. S. Patton, Director

State: California

DESCRIPTIVE REPORT

~~Topographic~~  
Hydrographic } Sheet No. 4. 5165

LOCALITY

Part  
Northern California, Tomales Bay,  
~~Sigvert 2 (1906) to Pelican Point,~~

1931.

CHIEF OF PARTY

L. G. Johnson.

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DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5165

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. 4

REGISTER NO. 5165

State California

General locality Northern <sup>Part (Calif)</sup> ~~California, Tomales Bay~~

Locality ~~Sizart P. (1906) to Pelican Pt.~~ Tomales Bay

Scale 1 - 10,000 Date of survey July - November, 1931

Vessel Chartered Launch " POINT REYES " & Launch No. 4149

Chief of Party L. C. Johnson

Surveyed by L. C. Johnson

Protracted by E. B. Lewey

Soundings penciled by E. B. Lewey

Soundings in ~~FATHOMS~~ feet

Plane of reference MLLW

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated April 29, 1930

Remarks:

*RWW 6/10/92*

## Descriptive Report

to accompany

Hydrographic Sheet, Field, No. 4.

### (a) Date of Instructions.

This survey was made in accordance with instructions from the Director, dated April 29, 1930.

### (b) Limits and Scale.

This sheet makes a junction with Hydro. Sheet, Field No. 2,<sup>5163</sup> in Tomales Bay, in the vicinity of Pelican Point, along the line between signal Fin and signal Ant. At the southern end, the hydrography was carried to the limits of the bay.

The scale of this sheet is 10,000 - 1.

### (c) Survey Methods.

There were no unusual methods used in the execution of the hydrography shown on this sheet. Positions were obtained by visual fixes throughout. The chartered Launch POINT REYES, and the chartered Launch # 4149 were used throughout.

All soundings shown on this sheet were taken with the hand-lead. On the Launch POINT REYES, a sounding chair was located 10 feet abaft the beam on the starboard side. Aboard the Launch # 4149 all soundings were obtained from a chair located just forward of the beam on the starboard side.

All signals used were plotted from a list of plane-table positions, scaled from Topo. Sheet, Field No. A and B, with the exception of signal Gyp, which was located by sextant cuts. The data concerning these cuts is described on page 6, Vol. 4, of the sounding records for this sheet.

### (d) Discrepancies.

A discrepancy is shown at position 101c, the fix as recorded, plots on the edge of the dock. The fix is strong and should be given full value. The possible explanation is that the dock has been shown by too heavy a line by the topographer, this sounding should be shown as being alongside the dock at the northeast corner.

There are no further discrepancies on this sheet.

### (e) Dangers.

There are no invisible dangers on this sheet,

### (f) Channels.

(f) Channels.

This portion of Tomales Bay has no channels, with the exception of two narrow and shallow channels that lead from the southern end of the bay into what is called Paper Mill Creek, these channels have a controlling depth of approximately 1 foot at MLLW.

There are numerous Caldrons throughout the area surveyed, the extent of which are clearly shown on the smooth sheet.

(g) Anchorage.

In latitude  $38^{\circ} - 09.7'$ , longitude  $122^{\circ} - 53.7'$ , there is suitable anchorage for small craft in 12 feet of water. There is a dock near by which is owned by Mr. Fred L. Shields, who runs the general store at Marshall, California. There is approximately 7 to 8 feet of water along the face of the dock at MLLW.

Due SW of Marshall on the west side of the bay, there is a small cove where protection from northerly weather may be had for small craft, in from 9 to 12 feet of water.

In latitude  $38^{\circ} - 08.85'$ , longitude  $122^{\circ} - 53.0'$ , there is a small bight or cove that affords protection from northerly weather for small craft in 15 to 16 feet of water. There are several fishermen who anchor their launches in this cove, and live on the beach nearby.

In latitude  $38^{\circ} - 08.55'$ , longitude  $122^{\circ} - 52.65'$ , there is suitable anchorage, with some northerly protection for small craft, in water ranging from 18 to 20 feet in depth, with good holding ground of soft gray mud.

Several small craft used as pleasure boats, anchor just off the Inverness Yacht Club Dock, in 3 to 4 feet of water. The dock at the Yacht Club has a controlling depth of approximately  $2\frac{1}{2}$  feet at MLLW.

No where in the area surveyed on this sheet is there suitable protection from southerly weather of any violence. The summer storms from the south are usually of short duration, and of not sufficient violence in the bay to cause much damage to such small craft as are habitually there.

(h) Comparison with previous surveys.

Comparison with previous surveys as shown on Sheet No. 757, shows some few changes where depths vary slightly; but on an average, the change is very small, and to a certain point, the profile of the bottom has not changed a great deal. Generally speaking, there seems to have been a slight filling in of somewhat less than a foot, from the northern end of this sheet, as far south as a line between signal Out and signal Ced. From this line south, to the limits of the present hydrography, there has been a very definite change, a gradual loss of depth from 1 to 5 feet.

(j) Geographic Names.

All geographic names in general usage by local inhabitants are shown on Topo. Sheet, Field No. A and B.

(k) Statistics.

Accompanying this report is a table of statistics, a tide data sheet, and an approval sheet.

Respectfully submitted,

*L. C. Johnson.*

L. C. Johnson,  
Jr. H. & G. E.  
Chief of Party, C&GS.

Statistics for hydrographic sheet, field No. 4,

To accompany Descriptive Report.

Total number of positions-----	1092
Total number of soundings-----	5608
Statute miles of sounding lines-----	119.1

Approval Sheet

To accompany Hydrographic Sheet, field No. 4,

This sheet has been examined and is approved; the records pertaining to this sheet have been examined and are approved.

*L. C. Johnson.*

L.C. Johnson, Jr. H. & G. E.  
Chief of Party, C&GS.

June 2, 1932.

Division of Hydrography and Topography:

✓ Division of Charts:

Tide Reducers are approved in  
4 volumes of sounding records for

HYDROGRAPHIC SHEET 5165

Locality Tomales Bay, Northern Coast of California

Chief of Party: L. C. Johnson in 1931

Plane of reference is mean lower low water reading

4.9 ft. on tide staff at Marshall

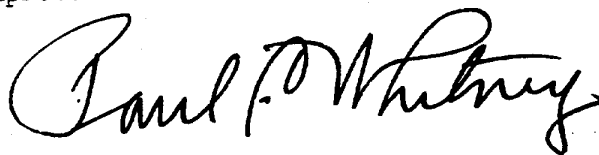
6.5 ft. below B. M. 1

4.0 ft. on tide staff at Inverness Yacht Club

10.4 ft. below B. M. 1

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 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.



Field Records Section (Charts)

HYDROGRAPHIC SHEET No. *H 5165*

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

Number of positions on sheet	<i>10.92</i>
Number of positions checked	<i>.122</i>
Number of positions revised	<i>4</i>
Number of soundings recorded	<i>56.08</i>
Number of soundings revised	<i>.21</i>
Number of signals erroneously plotted or transferred	<i>0</i>

Date: *July 14 1932*

Cartographer: *W. S. Shaw*

Section of Field Records.

Surveyed 1931.

Report on H-5165.

Chief of Party L. S. Johnson.

Surveyed by L. S. J.

Retracted by E. B. Levey.

Soundings plotted by E. B. J.

Verified and Inked by L. S. Straw.

1. The records conform with the requirements of the General Instructions.

2. The plan and character of development fulfill the requirements of the General Instructions.

3. The sounding line crossings are adequate for this Survey.

4. The usual depth curves can be satisfactorily drawn.

5. The field plotting was completed to the extent prescribed in the Hydrographic Manual with the exception that in plotting soundings the  $\frac{1}{2}$  foot was used far in excess of the requirements. (See page 19, P 153 of the Hydrographic Manual (Rev.))

6. No drafting done by the field was done over by the office draftsman.

However, a consistent discrepancy in the plotting of the penciled soundings, according to times, indicated a possible irregularity or lack of uniformity in the spacing of the spacing dividers.

# 5165  
7. This sheet (#5165) joins #5163; and  
this junction will be considered  
when #5163 is verified.

8. Further surveying is not  
required to fully develop  
important areas within the  
limits of this sheet.

Respectfully Submitted  
L. S. Shaw

July 14, 1932.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet H. 5165.

Tomales Bay, California.

Surveyed in 1931.

Instructions dated April 29, 1930 - (L. C. Johnson).

Chief of Party - L. C. Johnson.

Surveyed by - L. C. Johnson.

Protracted and soundings plotted by - E. B. Lewey.

Verified and inked by - L. S. Straw.

1. The records conform to the requirements of the Hydrographic Manual.
2. The work is in accordance with the Specific Instructions.
3. A comparison of adjacent sounding lines shows good agreement.
4. Practically all the depth curves can be completely drawn.
5. The field plotting was completed as required by the Hydrographic Manual with the exception that soundings were plotted to half feet in more cases than seemed necessary.
6. The junction with H. 5163 will be considered when that sheet is reviewed.
7. A comparison with H. 757 (surveyed in 1861) shows a number of very marked changes particularly at the southern end of the bay. The new survey should supersede the corresponding portion of the old survey.
8. No additional work is recommended.
9. Reviewed by A. L. Shalowitz.

Approved: A. M. Sobieralski. *(Signed)*