

4737 Contains W.D.

Diag. Cht. No. 6380-1

4737 Contains W.D.

Form 504  
 DEPARTMENT OF COMMERCE  
 U. S. COAST AND GEODETIC SURVEY

State: WASHINGTON

11-5613

DESCRIPTIVE REPORT.

Hydro Sheet No. 9 4737  
 Contains W.D.

LOCALITY:

~~Jones Channel - Anacortes.~~

Guemes Channel and N. Fidalgo Bay

1927

CHIEF OF PARTY:  
 Motor Vessel NATOMA  
 G. C. Jones, H. & G. E.

C. & G. SURVEY  
 L & A  
 FEB 15 1928  
 Acc. No.

Descriptive Report to Accompany Hydrographic Sheet

Register #  
Field #9

Anacortes, Wash.

Instructions and Limits of Work : The hydrography on this sheet was executed in accordance with the Director's instructions to the Commanding Officer of the Motor Vessel NATOMA, dated May 3rd, 1927. It consists of an examination of the central portion of Guemes Channel. West to longitude, approximately,  $122^{\circ} 36' 40''$ , east to a north and south line passing through the most southeasterly point of Guemes Island and Munks Landing, Fidalgo. South to a parallel of latitude passing through the tip of Crandall Spit.

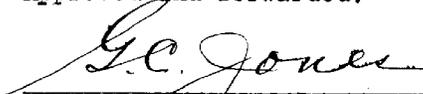
Dangers : Only one danger was found to exist in the area covered by this sheet. A spit extending 110 meters into a bay, at the head of Fidalgo Bay, and in the northeasterly section of Anacortes. This spit is dry at MLLW and is a danger to small craft only at tides above low water. The point is not buoyed.

Shoals : Two shoals were found in the fairway of Guemes Channel. These two shoals were developed until it was considered the shoalest depths had been found. A depth of thirty-eight and one-half ( $38\frac{1}{2}$ ) feet was found in latitude  $48-31-50$  longitude  $122-36$ . A depth of ninety-seven feet (97) was found in latitude  $48-38-28$ , longitude  $122-34-45$ .

Survey Methods : The usual bronze centre hand leadlines with ten to twelve pound leads were used from launch #4, later designated as launch #61. Very good control of the sounding speed of the launch was obtained through the Kitchin Rudder with which the launch is equipped. The use of a  $180^{\circ}$  mirror made possible the obtaining of sounding lines normal to the depth curves across the strong channel currents.

Respectfully submitted,

Approved and forwarded:

  
G. C. Jones, H & G. E.  
Chief of Party.

  
John M. Baker Jr., Aid.

STATISTICS

Hydrographic Sheet #9

Anacortes, Wn.

Motor Vessel NATOMA.

G. C. Jones, Cmdg.

<u>Date</u>	<u>Vol</u>	<u>Day</u>	<u>Soundings</u>	<u>Positions</u>	<u>Statute Miles</u>	<u>Vessel</u>
Sept. 20, 1927	1	a	123	36	2.7	Launch #4
" 21, 1927	1	b	371	79	7.5	Launch #4
# 22, 1927	1	c	662	159	10.8	Launch #4
" 23, 1927	1,2	d	581	130	12.7	Launch #4
" 24, 1927	2	e	216	62	7.8	Launch #4
" 26, 1927	2	f	480	129	17.6	Launch #4
" 28, 1927	3	g	157	46	6.9	Launch #4
Oct. 1, 1927	3	j	253	63	7.9	Launch #4
4, 1927	3	k	223	65	8.0	Launch #4
<u>TOTALS</u>			3066	1039	81.9	

Unit for soundings            Feet  
Plane of Reference            MLLW      2.9 ft. on staff.  
Highest tide 8/18/27            11.4 ft. on staff.  
Lowest tide 8/24/27            1.8 ft. on staff.

Portable automatic tide guage located on the outer end of Booth Fisheries Wharf -- Lat. 48-31 Long. 122-37.

March 6, 1928.

(11)

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in  
3 volumes of sounding records for

HYDROGRAPHIC SHEET  
4737

Locality: **ANACORTES HARBOR, WASHINGTON.**

Chief of Party: **G. C. Jones, 1927.**  
Plane of reference is **M L L W**  
**2.8** ft. on tide staff at **Anacortes.**

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.

J. J. H.

11

Copy for Record Section files.

February 21, 1928.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in  
22 volumes of sounding records for

HYDROGRAPHIC SHEET No. 4734

Locality: **VICINITY OF OCRACOCKE INLET, N. C.**

Chief of Party: **R. R. Moore, 1927.**

Plane of reference is	<b>M L W</b>
<b>1.0</b> ft. on tide staff at	<b>Ocracoke Inlet</b>
<b>2.1</b> " " " " "	<b>Ocracoke</b>
<b>2.5</b> " " " " "	<b>Caseys Island</b>

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.

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Chief, Division of Tides and Currents.

**NOTE: - to Division of Charts: Please furnish the Division of Tides and Currents with the number of this hydrographic sheet when a number has been assigned to it.**

## Section of Field Records

Report on Sheet No. 4737 Surveyed in Sept. 20 - Oct. 4 - 1927

Chief of Party. G. C. Jones.

Surveyed by - O. S. Reading

Protracted by - C. R. Bush

Soundings plotted by - J. M. Baker Jr.

Verified & Inked by - W. R. Rounds.

1. The records conform to the requirements of the General Instructions except that no courses are given.
2. The plan and character of the development fulfill the requirements of the General Instructions.
3. Sounding line crossings are adequate.
4. The usual depth curve can be drawn.
5. The field plotting was completed to the extent prescribed in the General Instructions.

no. of positions - 1039

no. of positions checked - 363.

no. of positions corrected - 9

no. of soundings 3066.

6. Character and scope of surveying is very good and the field drafting good.

Respectfully submitted,

D. R. Rourke.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

AND REFER TO No. 3-DRM

WASHINGTON

April 13, 1928.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4737

Anacortes, Washington

Surveyed by O. S. Reading.

Chief of Party, G. C. Jones.

Protracted by C. R. Bush.

Soundings plotted by J. M. Baker, Jr.

Verified and inked by D. R. Rounds.

1. The records were very well kept.
2. The plan and character of the development conform to the requirements of the General Instructions as far as possible at that time. Log booms prevented the complete survey of the approaches to the wharves and docks along the east coast of Anacortes Island.
3. The specific instructions called for 25 meter lines in the vicinity of the wharves and docks. This was not complied with along the east coast of Anacortes Island, perhaps on account of the log booms. *The right line structures shown are stacks of lumber in storage and piles. This lumber is shipped out by rail and truck. The mainland is hilly and this type of storage is cheaper. O.S.R.*
4. If it be found advisable to complete the survey of the east coast of this island in the vicinity of the wharves and docks, *the structures are not approved by vessels.* it would also be well to investigate the 54 ft. sounding just north of Tide Point and the 30 ft. sounding about position 47K. Each of these soundings were taken on rocky bottom while that around them is gravel. The 54 ft. sounding was checked in the record. There is a possibility that these two depths are not the least depths, especially in the case of the 54 ft. sounding. Also more development should be made north of the 97 ft. sounding.
5. A buoy was located northwest of Tide Point which has not previously been charted.

6. A few rocks in addition to those shown by previous surveys were found at the south shore of Guemes Island but they lie practically on the beach. The shore line as indicated by these soundings agrees pretty closely with topographic sheet 1746a (surveyed in 1913).
7. The character and scope of the surveying were good and the field drafting good.
8. Reviewed by W. M. Gibson, April 10, 1928.

Approved:

*Examined by Collier*

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Chief, Section of Field Records (Charts)

*L. O. Collier*

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

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4737

HYDROGRAPHIC TITLE SHEET  
*Includes Wire Drag Work*

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. 9

REGISTER NO. 4737

State Washington

General locality Anacortes

Locality Guemes Channel and N. Fidalgo Bay

Scale 1:5,000 Date of survey Sept. 2-Oct. 4, 1927

Vessel Motor Vessel NATOMA

Chief of Party G. C. Jones

Surveyed by O. S. Reading

Protracted by C. R. Bush

Soundings penciled by J. M. Baker Jr.

Soundings in ~~fathoms~~ feet

Plane of reference MLLW

Subdivision of wire dragged areas by

Inked by D. R. Rounds

Verified by D. R. Rounds

Instructions dated May 3rd, 1927

Remarks:

Applied to drawing of chart 6376 - Oct. 6, 1944 - J.F.W.