

4736 Contains W.D.

Diag. Cht. No. 6380 -1

4736 Contains W.D.

Form 504	
DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY L. & A.	
State: <u>Washington</u>	FEB 15 1928 Acc. No.
11-5613	
DESCRIPTIVE REPORT.	
Hydro. <u>Contains W.D.</u>	Sheet No. 4736
LOCALITY:	
<u>Guemes Channel - Anacortes</u>	
<u>to Green Pt.</u>	
1927	
CHIEF OF PARTY: M. V. NATOMA	
<u>G. C. Jones -- H. & G. Engr.</u>	

Descriptive Report to Accompany Hydrographic Sheet

Register # 4736
Field # 8.

Anacortes, Wash.

Instructions & 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 includes an examination of the westerly portion of Guemes Channel and the inshore waters west to Green Point, on a scale of 1 : 5000 .

Dangers : The only two dangers existing in this area are the sunken rock having a MLLW depth of 3 feet, and the rock on which triangulation station 'Ship Harbor' is located. These two lie inshore of the Shannon Point buoy, and being well marked by kelp are of danger only to the small craft which cut inside this buoy in rounding the point even in foggy weather.

Currents : The flood current sets eastward into Guemes Channel with its main current stream flowing close in to the southwest point of Guemes Island.
The main current stream of the ebb tide flows to the west along the south shore of the Channel, holding close in to Shannon Point.

Survey Methods : The usual bronze-centre hand leadlines with ten to twelve pound leads were used from launch #4, later designated as launch #61. This craft is equipped with a Kitchin rudder which allows excellent control of the sounding speed. With the further aid of a #80 degree mirror it was possible to sound across the strong channel currents and in general normal to the depth curves without unduly complicated systems of lines.

Care was taken in the field to delineate all kelp patches and plot all rocks on the boat sheet as the work progressed,

The rock wash in lat 48 31 plus 130 meters long 122 37 plus 840 meters no longer exists above low water. A careful examination was made at the time of the survey and the locality looked over at low water. The area of the rock was not carefully examined due to confusion of datums. The rock 2 3/4 sounding in Ship Harbor was not examined due to the displacement of the wheel in the vicinity

Respectfully submitted :

J. Reading

R. W. Woodworth
R. W. Woodworth, Jr. H&G.E.

Approved & Forwarded :

G. C. Jones

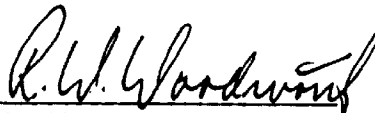
G. C. Jones, H&G.E.
Chief of Party.

ADDITION TO SMOOTH SHEET No 8.

4736

One shoal sounding located by wire drag is not plotted on Anacortes smooth sheet No. 8 thru early transmission of the record containing this information.

This sounding will be found in the single Wire Drag Sounding Record transmitted by this party which contains the drag soundings for Pt. Gamble, Pt. Ludlow, & Anacortes.



R. W. WOODWORTH,
Jr. H. & G. E.

STATISTICS

Hydrographic sheet #8

4736

Anacortes, Wn.

M.V. NATOMA

G.C. Jones, Comdg.

<u>Date</u>	<u>Vol.</u>	<u>Day</u>	<u>Soundings</u>	<u>Positions</u>	<u>Stat.Miles</u>	<u>Vessel</u>
Sept. 12, 1927	1	a	167	49	6.1	Lch. #4
" 13 "	"	b	371	91	12.0	"
" 14 "	"	c	471	126	11.2	"
" 15 "	"	d	180	59	6.6	"
" " "	2	"	259	65	8.3	"
" 16 "	"	e	275	97	9.7	"
" 17 "	"	f	185	56	5.8	"
" 19 "	"	g	397	135	9.5	"
" " "	3	"	108	38	2.5	"
" 20 "	"	h	502	133	5.1	"
Oct. 4 "	4	j	87	27	1.6	"
TOTALS --			3002	876	78.4	

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 auto. tide gauge located on the outer end of Booth Fisheries wharf -- Lat. 48 - 31 ; Long. 122 - 37 .

Copy for Records Section files.

March 6, 1928.

(11)

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in
4 volumes of sounding records for

HYDROGRAPHIC SHEET 4786

Locality: ANACORTES, WASHINGTON.

Chief of Party: G. O. 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.

W. H. White

Chief, Division of Tides and Currents.

Copy for Section Field Records files.

June 21, 1928.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in Vols. 5 & 6, 2 add'l,
volumes of sounding records for

HYDROGRAPHIC SHEET

4755

Locality: ANACORTES HARBOR, WASHINGTON.

Chief of Party: G. G. 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.
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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.

G. G. Jones
Chief, Division of Tides and Currents.

U.S. Coast and Geodetic Survey
Field Section
July 14, 1928

Report on Sheet No. 4736, State of Washington.

The original report written with detailed notes was blown away by the wind on Friday, July 13, 1928; therefore some of the notes in this report are abbreviated.

The boat sheet which is to accompany this smooth sheet was not located.* Otherwise the field record and the notes in it are complete to make a satisfactory plotting of the soundings for the area specified. The field draftsman's work is very neat and careful with but a very few omissions. Too many of boat positions particularly in congested areas were not numbered and the conversion of all negative soundings was not made to comply with the present instructions.

* The boat sheet was found later.

Notes:

1. Following are the boat positions plotted at discretion of the plotter's best judgement by the use of one angle and either course or Time or both: — 97e, 80e, 27c, 80c, 97e.
2. The angles fixing boat position 95d are rejected. The soundings between 94d-96d are plotted with assumption that the boat speed was not varied between these positions.
3. Boat positions plotted to conform with boat sheet — 81b, 141g, 164g, 33h, 55h, 40g, 117g, rock awash 30sw.
4. 9j (near Trap) plotted on ship Chy, Race, not on ship, Race, Grid, as shown in the Field Record. The dolphin is shown to be located west of 9j, but plotted east of this position. The topographic sheet could not be located to check this discrepancy.

Respectfully Submitted,

A. T. Hession

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

AUG 30 9 44 AM '28

14

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

ans.

Hondagua, P.I.
July 26th, 1928.

To Director, U.S.Coast and Geodetic Survey
Washington, D.C.

Through Director of Coast Surveys,
Manila, P.I.

From G.C.Jones, Lt. U.S. Coast and Geodetic Survey

Subject Wire drag records.

Referring to your letter of June 22nd, to Commanding Officer Natoma, 10-McC, a copy of which I have received this date, I have to state that the wire drag work at both Anacortes and Port Gamble was rejected as per explanation below. The records were forwarded to the office, in error; probably after my departure from the Natoma.

The drag work at Anacortes was in excess of instructions and was intended to verify the least depth on two spots in Guernes Channel, neither of which was in an important position. One was a more or less critical depth but was near the beach. Due to the heavy currents in Guernes Channel, the drag failed in two attempts to cover the spots desired. On one attempt it grounded in known shallow water, and on the other it was so tangled by the current that no line was run. It was concluded that the expense involved, the jeopardizing of equipment, and the likelihood of missing the last of the season's good weather for triangulation at Deception Pass, and the surveys at Tacoma, was too great a price to pay for continued efforts which might be useless for several attempts.

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

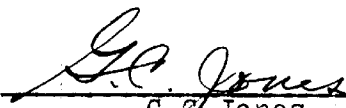
EXPRESS OFFICE:

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

The work at Port Gamble was a very short piece, intended to confirm our conclusion that a sounding near the dock was erroneous. This it did, and an appropriate note was entered in the sounding record. The hookup and path covered by the drag made it valueless for any other information.

It is doubtful whether the officers on the Natoma will be able to plot the drag as requested in your letter of above date.

A copy of this letter is forwarded to the Commanding Officer of the Natoma.


G. C. Jones
Lt. U. S. Coast and Geodetic Survey



Lt. U. S. Coast and Geodetic Survey

Note: This work to be investigated before re-
specting as suggested in this letter.
A. M. S.

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

AND REFER TO NO. 11-DEM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

October 29, 1928.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4736

Anacortes to Green Point, Washington

Surveyed in 1927

Instructions dated May 3, 1927 (NATOMA)

Chief of Party, G. C. Jones.

Surveyed by O. S. Reading.

Protracted and soundings plotted by R. W. Woodworth.

Verified and inked by J. T. Stessin.

1. The records as well as the plan and character of the survey conform to the requirements of the General Instructions.
2. The plan and extent of the development satisfy the specific instructions.
3. The sounding line crossings are adequate considering the uneven character of the bottom in places.
4. The information is sufficient for drawing the usual depth cruves.
5. The usual field plotting was done by the field party.
6. The junction with the adjoining contemporary work on the east is satisfactory.
7. In several places shoaler water on the old surveys was not found. These have been shown on the sheet in color and in conference with the Chief of Field Work it was decided that they should be charted.
8. A drag strip was run along shore for several miles west of Anacortes, but for the reasons stated by Capt. Jones in his letter of July 26, 1928 it was rejected.

9. The 18 foot spot in Ship Harbor was not covered by the developing lines. In the original sounding record it is noted that the original sounding of 3 fathoms 3 feet is "probably 6 fms 3 ft", but the sounding was not rejected. Until this sounding can be disproved by an examination it should be charted. The sounding is shown as 2 3/4 fathoms on chart 6377, but is omitted on chart 6380.
10. The area of the City of Seattle Rock was not covered for the reason stated in the descriptive report. There is no reason to doubt its existence and it should be charted. The drag passed over this spot when set at an effective depth of 9 feet, without touching.
11. The rock west of signal Crab was covered by development lines 13 meters apart without obtaining any indication of it. As the original record indicated that the rock was exposed only one foot at mean lower low water, and as there was 2 to 8 feet of tide when the recent development was made, it appears possible that the rock may exist. Mr. Reading states that a constant lookout for the rock was made when the ship passed the locality, and he does not believe it exists. The drag when set at 4 feet effective depth passed over the spot without touching, which helps confirm Mr. Reading's belief that the rock does not exist. Information has been requested from the Seattle Field Station regarding it, and until it is disproved it should be charted.
12. No additional surveying or investigating are required, except what may be necessary to clear up the two spots noted in paragraphs 9 and 11.
13. The character of the surveying and field drafting are excellent.
14. Reviewed by E. P. Ellis, September, 1928.

Approved:

Chief, Section of Field Records (Charts)

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

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4736

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. 8

REGISTER NO. 4736

State Washington

General locality ~~Pidalgo Island~~ Guemes Channel

Locality Anacortes to Green Pt.
~~Guemes Channel and west.~~

Scale 1 : 5000 Date of survey September to, 1927
Oct. 4,

Vessel Natoma

Chief of Party G.C. Jones

Surveyed by C.S. Reading

Protracted by R.W. Woodworth

Soundings penciled by R.W. Woodworth

Soundings in ~~fathoms~~ feet

Plane of reference MLLW

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated May 3, 1927

Remarks:

Applied to chart 6376 Oct 5, 1944 - J.W.