

4817

Diag. Cht. No. 5702-2

Form 504 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY
State. <u>O R E G O N</u>
<small>11-5613</small>
DESCRIPTIVE REPORT.
Hydrographic Sheet No. <u>4. 4817</u>
LOCALITY:
Coast of Oregon <u>Capt Blanco</u>
<u>Island Rock to Euchre Creek</u>
<hr/> 192 ⁸ <hr/>
CHIEF OF PARTY:
<u>A. P. Ratti</u>

4817

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC

SHEET NO.4 (Field Number), ISLAND ROCK TO $1\frac{1}{4}$ Miles of OPHIR.

DATE OF INSTRUCTIONS.

Instructions covering this survey were dated March 19, 1923.

LIMIT AND EXTENT.

This survey covers the area from the beach to a junction with Reg. H4505 from 1 mile north of Island Rock to Lat. $42^{\circ} 32\frac{1}{2}'$.

SURVEY METHODS.

All signals used on this sheet were located by triangulation in 1924 and by topography shown on sheet F. For list of signals used see page 2 Vol. 1 Sounding Record of this sheet.

Soundings from the beach to 15 Fathoms were obtained with the Hand Lead us using for leadline Sampson Mahogany Tiller Rope size no.8; beyond 15 Fathoms soundings were obtained with the Standard Coast Survey Hand Sounding Machine, using stranded wire.

Chartered gas Launch Rogue was used on this survey.

DANGERS.

No outlying dangers were found on this sheet.

COMPARISON WITH PREVIOUS SURVEY.

Chart 5952 shows a sunken rock about 250 yds. south of Island Rock- no indication of this was found. A least sounding of 9 Fathoms at MLLW was found about 100 meters south of the south tangent of Island Rock.

Reg. sheet no. 1946 shows a sunken rock about $\frac{1}{2}$ naut. mile south of Frankport and about $\frac{1}{4}$ mile south of Signal Tory shown on Reg. 1946 This rock bears the notation " Hydrographic Party reports no rock here," on Sheet Reg. No. 1946. This rock was found by topographic party and verified by hydrographic party. For location and characteristic see topographic sheet No. F.

The soundings shown on Reg. No. 4505 west of Station Ophir and inside the 10 Fathom curve as shown on that sheet, were not found to check with this recent survey. This recent survey indicates that these soundings are erroneous.

ANCHORAGES.

There is a very contracted anchorage for small craft at Frankport as shown by the symbol close to Signal NOB. There are ring bolts for mooring lines as indicated of hydrographic sheet. This is a very good anchorage for small craft in heavy northwest weather.

REDUCTION OF SOUNDINGS.

The reference plane for the reduction of soundings is MLLW and the reading on the staff for this plane was taken as 4.84 Feet at Port Orford.

LOCATION OF TIDE GAUGE.

The tide gauge for the work on this sheet was located at Port Orford, Oregon.

REMARKS.

All soundings on smooth hydrographic sheet are in Fathoms. Soundings on Boat sheet are in Fathoms approximately reduced.

Respectfully Submitted,

Augustus P. Ratti

Chief of Party, U.S.C.&G.S.

STATISTICS SHEET NO. 4. (Field Number).

Date 1928.	Letter	Volume	Positions	Soundings	Miles Stat.	Vessel.
July 27	a	1	150	315	26.0	Rogue
" 31	b	1	70	260	15.0	"
Aug. 1	c	1 & 2	86	287	19.3	"
" 2	d	2	98	294	20.0	"
" 6	e	2	15	26	5.0	"
TOTALS			419	1162	85.3	

12 Sq. Miles (Naut.).

January 11, 1929.

EAL

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEET 4017

Locality: VICINITY OF EUGENE CREEK, COAST OF OREGON.

Chief of Party: A.P. Batti in 1928.

Plane of reference is Mean lower low water, reading.

4.8 ft. on tide staff at Port Orford, Oregon.

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.

Paul C. Whitney

Chief, Division of Tides and Currents.

Section of Field Records

District No. 4817

Surveyed in - 1928

Chief of Party - A. P. Latta

Surveyed by - A. P. Latta

Protracted by - J. B. Reed

Soundings Plotted by - J. B. Reed

Verified and inked by - J. H. Church

1. The records conform to the requirements of the general instructions.
2. The plan and character of the development conform to the general instructions.
- 3.
- 4.
5. The usual depth curves can be drawn completely, except the two fathom curve.
6. The field plotting was completed to the extent prescribed by the general instructions.
7. The office draftsman did not have to do any part of the drafting by the field party over.
- 8.
- 9.

10. Remarks:-

The positions of 226 and 716 were erroneously plotted in the original protracting, as evidenced by an inspection of the course and confirmed by reprotracting. The hydrographic station 50w and these features (as noted) were transferred from the boat sheet and topographic ^{sheet}, respectively, to the smooth sheet, by the office draftsman.

- 11 Rating of work (a) Character and scope of surveying. -
(b) Field drafting - Good
12. Reviewed by

Respectfully submitted
J. H. Church

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

AND REFER TO No. 11-DRM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

April 15, 1929.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4817

Surveyed in 1928

Instructions dated March 19, 1928

Chief of Party, A. P. Ratti.

Surveyed by A. P. Ratti.

Protracted and soundings plotted by T. B. Reed.

Verified and inked by J. H. Church.

1. The records conform to the requirements of the General Instructions.
2. The plan and character of development fulfill the requirements of the General Instructions.
3. The plan and extent of development satisfy the specific instructions.
4. The sounding line crossings are adequate.
5. The usual depth curves can be completely drawn.
6. The field plotting was completed to the extent prescribed in General Instructions, except as follows: Two rocks awash, 450 meters northwest of signal Mus were transferred from the boat sheet, by the cartographer. These were not shown on the topographic sheet, but were probably included in a group of rocks mentioned in the sounding records. Another rock awash, 300 meters southeast of signal Tel was transferred from the boat sheet. The boat sheet was the only source of information regarding this rock.
7. The office draftsman did not have to do over any part of the drafting done by the field party.
8. The junction of this sheet and H. 4505 is not especially good at the north end of the sheet in the area between Island Rock and the shore. In this area there are several places which

have a discrepancy of about 2 fathoms in an 18 fathom depth. The difference in the two sheets is undoubtedly due to the fact that the soundings on H. 4505 were obtained by tubes while those on this sheet were lead soundings. While making the tube soundings the tubes were attached to the sounding line 2 fathoms above the lead. Using this system the field party has not applied any correction to depths because of this two fathoms, because they have assumed that the tube always goes to the bottom. In this case however it is quite probable that the tube does not always get to the bottom and indicates a depth from 0 to 2 fathoms shoaler than it should. This might explain why the two sheets agree well in some places while in others the tube soundings are shoaler than the lead soundings. At any rate the tube soundings will have to be maintained in order to be on the side of safety.

The original sheet No. 1946 for this area agrees very well with the present survey except in a small area within a radius of about 1/2 mile, at the east and southeast side of Island Rock. There are three soundings in this area which show discrepancies up to 2 fathoms.

Junctions with H. 4814 and H. 4819 have not been investigated because these two sheets are not yet completed.

9. Further surveying is not required to fully develop important areas within the limits of this sheet.
10. Remarks:

In the descriptive report of this sheet it is stated that there is no indication of a sunken rock 250 yards south of Island Rock, as shown on chart 5951. The original source of information regarding this rock is T. 1862. It is somewhat indistinct and was not used on the original compilation of chart 5951, but was shown on the later editions, compiled in 1928. In view of the somewhat doubtful character of the original information and the recommendation of the Chief of Party, it is recommended that this rock be removed from the chart.

The descriptive report states that soundings on H. 4505 west of station Ophir, inside the 10 fathom curve do not agree with the recent survey. This however does not refer to this sheet as there is not enough overlap of the two sheets upon which to base such a statement. From a casual inspection of H. 4819 it appears that there is a difference at this point between it and H. 4505.

The sunken rock 1 mile south of Frankfort and 1/4 mile south of signal Tory as described in the descriptive report, is now on smooth sheet 4817.

11. (a) The character and scope of the surveying are very good.
(b) The field drafting was of excellent quality.
12. Reviewed by Earl O. Heaton, Jr. H. & G. E., March 8, 1929.

Approved:

A. M. Sobieralski
Chief, Section of Field Records (Charts)

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

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

C. & G. SURVEY
L. & A.
DEC 26 1928
Acc. No.

REG. NO. 4817

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. 4817

State ~~OREGON~~ Cape Blanco

General locality COAST OF OREGON

Locality ISLAND ROCK TO EUCHRE CREEK

Scale 1-20000 Date of survey July 27 to Aug. 6, 1928.

Vessel Chartered Launch Rogue

Chief of Party A. P. Ratti

Surveyed by A. P. Ratti

Protracted by T. B. Reed

Soundings penciled by T. B. Reed

Soundings in fathoms feet

Plane of reference MLLW 4.84 Feet Port Orford, Oregon.

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated March 19, 1928.

Remarks: This sheet makes a junction with Sheet 3, Sheet Reg. No. H4505 and Sheet 6.

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. *4817* -

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

Number of positions on sheet . *419* . .
Number of positions checked *10%* . .
Number of positions revised . *2* . .
Number of soundings recorded . *1181* . .
Number of soundings revised . *5* . .
Number of signals erroneously
plotted or transferred

Date: - *March 7, 1929* - - - - -

Cartographer: *J. H. Burch* - - - - -