

4864

Diag. Cht. No. 5702

11/20/24

Form 504	
DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY E Lester Jones <i>ector</i>	
State: <u>OREGON</u>	
DESCRIPTIVE REPORT	
Hydrographic Hydrographic	Sheet No. 6 4864
LOCALITY	
SOUTHERN OREGON Cape Ferrello	
NORTH OF BROOKINGS	
Cape Ferrello to Crook Pt.	
1928	
CHIEF OF PARTY	
F. G. Engle, H. & G. Eng'r	

GOVERNMENT PRINTING OFFICE

4864

DESCRIPTIVE REPORT
To Accompany Hydrographic Sheet No. 6

North of Brookings, Southern Oregon.

Instructions dated March 13, 1928.

F. G. Engle,
H. & G. Engineer,
Commanding.

Party of the Str. DISCOVERER

Surveyed by R. W. Knox

October 15 - 27, 1928.
Launch "Martha".

Survey Methods:

A twelve pound lead was used in the surveying of this area. Standard survey methods were followed in obtaining soundings and positions.

Dangers:

There are no dangers to navigation outside the 15 fathom curve, which is generally within a mile of the beach. A thick kelp patch 400 meters Northwest of Mack Arch was sounded out, least water, 2 4/8 fathoms.

Anchorage:

The Coast Pilot completely and correctly notes the two anchorages in this vicinity, Mack Arch Cove, outer anchorage and inner anchorage.

Comparison with Previous Surveys:

No evidence of the sunken rock on chart 5923 in Latitude 42° - 14', 30 meters, Longitude 124° - 24', 1170 meters was observed by the party. Position 14 e. The party had no opportunity to observe this during heavy weather. This rock is not shown on H-1240.

Retain. Some investigations not complete enough to disprove.

No evidence of rock awash on chart 5923 in Latitude 42° - 14' 815 meters, Longitude 124° - 24', 350 meters was observed, although lines were run on either side of it's location. Positions 10d-14d and 17d - 20d. This rock was not seen by Topographic Party and shown as two fathoms on H-1240.

Removal from chart. Authority for placing on chart doubtful.

A small islet, not on chart 5923 was observed by the party in Latitude 42° - 14', 1227 meters, Longitude 124° - 24', 457 meters. Position 10d. Located by Topographic Party and shown in approximate position on H - 1240.

A sunken rock, covered with kelp and with a least depth of 2 4/6 fathoms, was located 400 meters Northwest of Mack Arch. Position 13e. ✓

A rock awash at high water in Latitude 42° - 14', 652 meters, Longitude 124° - 24', 207 meters, was noted by the party. Position 13-14d. Also located by Topographic Party. ✓

A rock awash is shown on photostat of sheet 1240, 200 meters South by East of Mack Arch, but was not observed by either the Hydrographic or Topographic Parties. This rock is shown on the chart as a small islet. Not shown on Topographic Bromide 1317.

Retain, AMS. Investigation not complete.
A group of rocks shown on photostat of sheet 1240 as islands was observed by the party to be awash at high tide. Latitude 42° - 11', 1720 meters, Longitude 124° - 23', 150 meters. Follow T 4401.

Respectfully submitted,

Robert W. Knox
Lt. j.g. U.S.N.

ams

F. G. Engle

F. G. Engle,
H. & G. Engineer,
Commanding.

STATISTICS SHEET NO.6

Date 1928	Letter	Vol.	Pos.	Soundings		Miles(stat.)		Vessel
				Wire	H.L./	Wire	H. L.	
October 15	a	1	61	-----	109	-----	10.4	Launch Martha
" 23	b	1	111	-----	267	-----	23.4	" "
" 24	c	1	105	-----	309	-----	20.6	" "
" 26	d	1	60	-----	130	-----	6.8	" "
Totals -			337	-----	815	-----	61.2	

TIDAL NOTE SHEET 6 (FIELD)


The auto-portable tide gauge at Brookings, Oregon, Latitude 42-03 North, Longitude 124-16 West was used in the reduction of the soundings on this sheet.

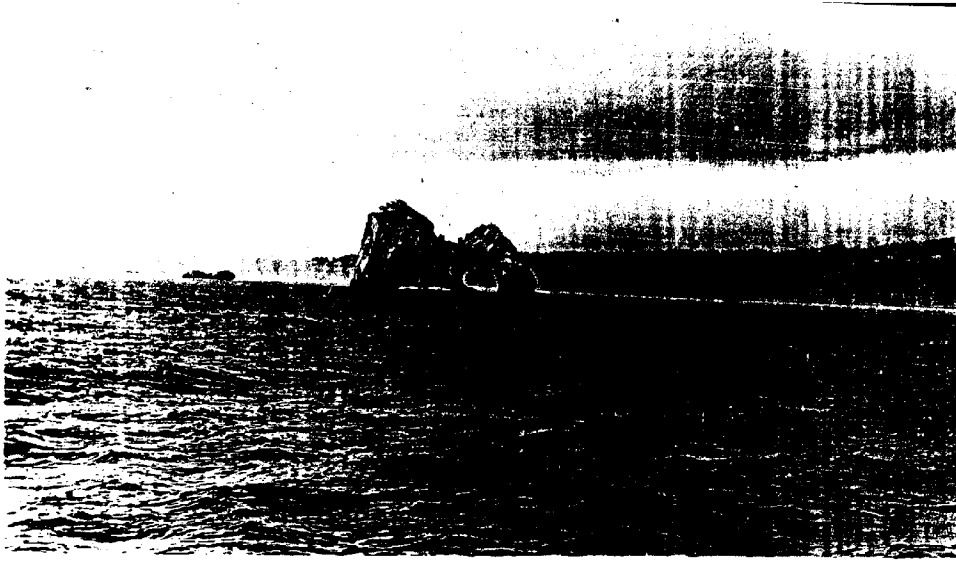
The plane on mean lower low water on this gauge was used. The reading of mean lower low water on this gauge was 1.59 ft.

The highest and the lowest tides on this gauge were not tabulated.

APPROVAL BY CHIEF OF PARTY

Sheet #6 and accompanying record have been examined by me and approved. The field work was done by a detached party not under my immediate supervision. The office work was done under my supervision. No additional work is considered necessary.


F. G. Engle
H. & G. Engineer
Chief of Party



This is a view of MACK ARCH taken about 3/4 mile S x W of the rock. The two pinnacle rocks at the left edge of the picture are on Crook Point, the right hand pinnacle being Δ Crook Rock.

E.A.L.

(For Files Field Records Section)

April 16, 1929

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in
1 volume of sounding records for

HYDROGRAPHIC SHEET 4864

Locality: Vicinity of ^{Mack} ~~March~~ Arch, Southern Oregon

Chief of Party: P. C. Engle in 1928

Plane of reference is Mean lower low water, reading

1.6 ft. on tide staff at Brookings, Ore.
~~1.6 ft. on tide staff at Brookings, Ore.~~

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.

Paul C. Whitney

Chief, Division of Tides and Currents.

Section of Field Records

Sheet No. 4864

Surveyed in - 1928

Chief of Party - F. H. Engle

Surveyed by - P. W. Knox

Projected by - C. J. Waggoner

Soundings plotted by - G. L. Shelton

Verified and inked by - J. B. Church

1. The records conform to the general instructions
2. The plan and character of the development fulfill the requirements of the general instructions.
3. The usual depth curves cannot be completely drawn
4. The field plotting was completed to the extent prescribed, except the plotting of the depth curves, which was omitted.

5. Remarks

The office draftsman replotted positions 59a, 72b, 75a, 28c and 30d.

Signals "Lat" and "Loc" were identified in reverse order on H 4864, but the plotting was not affected thereby.

June 13, 1929
Respectfully submitted
J. B. Hurch

P. S. The shore line was not plotted on this sheet by the field party. The office draftsman omitted plotting the shore line at this time, by direction of the Chief of Section, it being understood that this shall be done at a presentable convenient time of in the future
J. B. Hurch

Section of Field Records
Report on Hyd. Sheet No 4864
Cape Ferrel to Crook Pt., Oregon
Surveyed in 1928

Instructions dated March 13, 1928 (Discovered)

Chief of Party - F. G. Engle

Surveyed by - R. H. Knox

Protracted by - C. J. Wagoner

Soundings plotted by - G. R. Shelton

Verified and inked by - J. H. Church

1. The records conform to the requirements.
2. The plan and character of development conform to the requirements of the General Instructions.

3. The plan and extent of the survey satisfy the specific instructions, except that it is believed that the spacing of sounding lines should have been a little closer.
4. No cross lines were run.
5. The information is sufficient for drawing the usual depth curves, except the curves for depths under ten fathoms, which can only be partially drawn.
6. The junctions with H. 4861 on the north, H. 4863 on the west and H. 4872 on the south, are satisfactory.
7. The usual amount of field plotting was well by the field party. It was found that signal "Top" had been incorrectly transferred. This signal was replotted and the positions, depending on it for control, were retracted.
The shoreline could not be put on the sheet in the field owing to the difference

in scale between the hydrographic and topographic sheets. The topographic sheets were reduced by photography and the shore line placed on the sheet. A number of rocks had been located by direction and estimated distance from the sounding lines and inked on the sheet. Some of these were shown in a slightly different position on the topographic sheets, causing a duplication of some of these features. In these cases the topographic location was accepted.

The sunken rock shown on chart 5923 in Lat. $42^{\circ}-14'$ (30 me), Long. $124^{\circ}-24'$ (1170 me) was taken from J. 1317. While the field party found no indication of this, they state that they had no opportunity to observe it in heavy weather, the locality was not closely examined, and the existence of the rock has not been completely disproved. It will be retained on the chart. (Approved by U. M. S.)

The rock awash shown on chart 5923 in Lat. $42^{\circ}-14'$ (815 me), Long $124^{\circ}-24'$ (350 me) is shown on H. 1240, as a two fathom spot. No authority could be found for showing this as a rock awash. The field party found no indication of this and its existence appears to have been disproved. Its removal from the chart is recommended. (Approved by U.M.S.)

There is a small islet shown on chart 5923 about 200 meters S. S. E. of Mack Arch. This is shown as a rock awash on H. 1240 and apparently should have been so shown on the chart.

The field party observed no evidence of this, but the investigation is not considered complete enough to disprove its existence and it will be retained on the chart as a rock awash. (Approved by U.M.S.)

8. While the survey is a little open, no additional work is recommended.

Reviewed by R. L. Johnston

Sept. 3, 1929.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.
4864

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. 6

REGISTER NO. 4864

State OREGON

General locality ~~SOUTHERN OREGON~~ Cape Ferrelo

Locality ~~NORTH OF BROOKINGS~~ Cape Ferrelo to Crook Pt.

Scale 1/20000 Date of survey^x October 1928

Vessel Str. DISCOVERER

Chief of Party F. G. Engle

Surveyed by R. W. Knox

Protracted by C. J. Wagner

Soundings penciled by G. R. Shelton

Soundings in fathoms ~~not~~

Plane of reference MLLW

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated March 13, 1928

Remarks: