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Diag. Cht. No. 5702

ORIGINAL

Form 504	
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEY	
E Lester Jones, <i>Director</i>	
<div style="border: 1px solid black; width: 100px; height: 50px; margin: 0 auto;"></div>	
State: Oregon	
DESCRIPTIVE REPORT	
Topographic } Sheet No. 12 (Field) Hydrographic } 4861	
LOCALITY	
Southern Oregon- Cape Sebastian Crook Point to Hunter Cove	
1928	
CHIEF OF PARTY	
F. G. Engle.	

GOVERNMENT PRINTING OFFICE

4861

DESCRIPTIVE REPORT

To Accompany Hydrographic Sheet #12.

Hunter Cove and Vicinity - - - - - Oregon.

Instructions dated March 13, 1928.

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

Party of the Str. DISCOVERER

Surveyed by R. W. Knox

October 11 - 26, 1928.
Launch "Martha".

Survey Methods:

The area was sounded from the chartered launch "Martha", a twelve pound lead being used exclusively. The lead lines were of bronze wire core sash-cord, carefully made and checked frequently. No difficulty was experienced in keeping the error within one percent of the depth. Standard survey methods were followed in determining depths and positions.

Dangers:

There are no important dangers to navigation in the area covered by this sheet. The following rocks and breakers are, however, noted:

A small rock, awash at the higher-high tides, in about the center of Hunter Cove.

Two breakers, baring about $\frac{1}{2}$ tide, (1) 200 meters North by West of hydrographic station Grass and (2) about 160 meters northwest of hydrographic station Grass.

A breaker, baring at $\frac{1}{2}$ tide, Latitude $42^{\circ} - 18'$, 900 meters, Longitude $124^{\circ} - 25'$, 290 meters.

A group of small rocks and breakers in Latitude $42^{\circ} - 15'$, 1040 meters, Longitude $124^{\circ} - 25'$, 100 meters.

A breaker 360 meters West of hydrographic station Crook Rock, and a group of small islets extending South from this breaker.

Comparison with Previous Surveys:

Appearing on the bromide of the 1873 work in the vicinity of Hunter Cove are a number of shoal soundings in Latitude $42^{\circ} - 19'$, Longitude $124^{\circ} - 26'$, that the party was unable to verify.

A system of lines, 50 meters apart, were run over this area, but no indication of the shoals were discovered. In addition, a whaleboat party under C. M. Durgin, in the course of planting a hydrophone, sounded out the same area, using the bromide as a boat sheet and tangents as signals. No shoal soundings are recorded in this work.

The two breakers, North by West ^{and North-west}, respectively, of hydrographic station Grass, mentioned under "dangers" do not appear on either the bromide or the chart 5923.

Anchorage:

The anchorage in Hunter Cove is not recommended except for very small boats in very smooth weather. It was found during the season that moderate northwesterly weather made the place dangerous for a launch.

Tidal Note:

An auto-portable tide gauge, placed at Brookings, Oregon, was used for the reduction of soundings on this sheet.

Hydrophone:

The Hunter Cove Hydrophone is shown on the sheet by a small blue square. This position was scaled from Topographic Sheet A as it is considered it is more accurate than if it was plotted on the Hydrographic Sheet.

Respectfully submitted,

Robert L. Knapp, Jr.
Robert L. Knapp, Jr., U. S. S.

Approved and forwarded

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

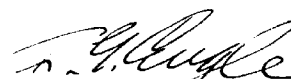
TIDAL NOTE SHEET 12 (FIELD)

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

The plane of mean lower low water on the gauge was used. The reading of mean lower low water on this gauge was 1.59 ft. The highest and the lowest tides were not tabulated.

Approval by Chief of Party.

Sheet #12 and accompanying record have been examined by me and approved. The field work was done by a detached party not under my immediate supervision. Office work was done under my supervision. No additional work is considered necessary.


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

Statistics, Sheet No. 12

Date 1928	Letter	Vol.	Pos.	Soundings		Miles(stat.)		Vessel
				Wire	H.L.	Wire	H.L.	
October 11	a	1	79	----	205	----	10.3	Launch Martha
" 12	b	1	93	----	292	----	13.1	" "
" 25	c	1	212	----	717	----	27.5	" "
" 26	d	1	15	----	29	----	1.4	" "
Totals - - -			399	----	1243	----	52.3	

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 4861

Locality: Hunter Cove, Southern Oregon.

Chief of Party: F. G. Eagle in 1928

Plane of reference is Mean lower low water, reading
1.6 ft, on tide staff at Brookings, Ore.

~~XXXXXXXXXXXX~~

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. Whitcomb

Chief, Division of Tides and Currents.

SECTION OF FIELD RECORDS

JUNE 11 - 1929

REPORT ON SHEET No. 4861

CHIEF OF PARTY - F. G. ENGLE
PROTRACTED BY - C. J. WAGNER
VER. & INKED BY - W. H. BAMFORD

SURVEYED BY - R. W. KNOX
SOUNDINGS PENCILED BY - R. W. K

- 1./ The records were found to 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 satisfies 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 prescribed extent except that very few bottom characteristics were penciled.
7. Very few bottom characteristics were plotted and very little attention was paid to irregular time intervals which necessitated entire re-penciling of a number of soundings.

Page 2.

8./ The junctions with the adjacent sheets are satisfactory

9./ Stations referred to as Hydrographic Stations "GRASS" and "CROOK ROCK" - in the Descriptive Report. are actually triangulation stations "COVE ISLAND 1924" and "CROOK ROCK 1924" - respectively.

10/ The sheet was very clean and the work legible

Respectfully Submitted

Warren H Bamford

Section of Field Records
Report on Hyd. Sheet No. 4861
Crook Pt. to Hunter Cove, Oregon.
Surveyed in 1928

Instructions dated March 13, 1928. (Discoverer)

Chief of Party - F. G. Engle
Surveyed by - R. H. Knox
Protracted by - C. J. Wagner
Soundings plotted by - R. H. Knox
Verified and inked by W. H. Bamford

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 satisfies the specific instructions, except that the hydrography was not carried as close inshore as directed.

4. There are only a few cross lines. These cross satisfactorily and the soundings on adjacent lines agree.
5. The five and ten fathom curve can be fairly completely drawn. The curves for depths under five fathoms can only be completely drawn in the vicinity of Hunter Cove.
6. The junction on the north with H. 4819, the junction on the west with H. 4863 and the junction on the south with H. 4864 are satisfactory.
7. The sheet was well protracted but the soundings were not always spaced to conform with irregular time intervals and not enough bottom characteristics were plotted.
8. The old topographic sheets T. 1588 and T. 1317 show a number of rock symbols, mostly sunken rocks, which were not indicated on the present topographic sheet, T. 4400. These have been added to T. 4400 in red, but have not yet been transferred

to this sheet (H. 4861) as it was thought best to refer them to Capt. Engle.

On hydrographic sheet No. 1212 b there are some shoal soundings in the vicinity of Lat. $42^{\circ}-19'$, Long. $124^{\circ}-26'$. This work shows no trace of a shoaling at this point and a second examination by Lieut. Durgin also failed to show any indication of a shoal. It would be desirable to verify these soundings on H. 1212 b from the original records, but the sounding records for that sheet were not accessible. These soundings appear to have been discredited and should be superseded by this work.

9. Additional work within the limits of this sheet is not recommended.

Reviewed by R. L. Johnston

July 16, 1929.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4861

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. 12

REGISTER. NO. 4861

State Oregon

General locality ~~Southern Oregon~~ Cape Sebastian

Locality ~~Hunter Cove~~ Crook Pt. to Hunter Cove

Scale 1/10,000 Date of survey October 1928

Vessel Str. DISCOVERER

Chief of Party F. G. Engle

Surveyed by R. W. Knox

Protracted by C. J. Wagner

Soundings penciled by R. W. Knox

Soundings in fathoms feet

Plane of reference MLLW

Subdivision of wire dragged areas by

Inked by Warren H. Bamford

Verified by Warren H. Bamford

Instructions dated March 13, 1928 1928

Remarks:

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. 4861

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

Number of positions on sheet	.397. . .
Number of positions checked	79. . .
Number of positions revised	5. . .
Number of soundings recorded	.1243. .
Number of soundings revised	.161. . .
Number of signals erroneously plotted or transferred	.0.

Date: -- JUNE 10 - 1929
Cartographer: Warren H. Bamford