

4872

Diag. Cht. No. 5702-2

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

E. Lester Jones, Director

C. & G. SURVEY

L. & A.

APR 16 1929

Acc. No.

CALIFORNIA AND

State: OREGON

DESCRIPTIVE REPORT

~~Hydrographic~~  
Hydrographic

Sheet No. 7 4872

LOCALITY

Northern California and  
SOUTHERN OREGON

~~VICINITY OF BROOKINGS~~

Pyramid Pt to Cape Ferrel

1928

CHIEF OF PARTY

F. G. Engle, H. & G. Eng'r

GOVERNMENT PRINTING OFFICE

4872

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Oakland, California,

April 1, 1929

SUPERINTENDENT, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted:

H. 4872

*F. G. Engle*  
F. G. Engle, H. & G. Engr Chief of Party.

DESCRIPTION.	POSITION.					Method of determination.	Charts affected.
	Latitude.		Longitude.		Datum.		
	'	D. M. meters.	'	D. P. meters.			
<u>HOUSE ROCK</u> , a large off-shore rock about 110 ft. high, distinguishable by its light color.	42 06	1023	124 21	1323	MHW	5702	
<u>WHITE ROCK</u> , a large pointed rock about 76 ft. high with white tip.	42 04	1325	124 20	380	MHW	5702	
<u>TWIN ROCK</u> , about 125 ft. high. It is the inshore rock of two large rocks.	42 05	1134	124 20	1278	MHW	5702	
<u>CONE ROCK</u> , a conical shaped rock about 68 ft. high. Only large rock in the vicinity.	41 58	767	124 13	84	MHW	5702	
<u>HARRIS</u> , a large mound 243 ft. high and grass covered, north of Brookings, Oregon.	42 04	245	124 18	1001	MHW	5702	
<u>SINESTIA</u> , a brush covered mound, about 200 ft. high, on Pyramid Point.	41 57	171	124 12	391	MHW	5702	
<u>MCVAY</u> , rocky mound, about 174 ft. high in a cultivated field.	42 01	604	124 14	159	MHW	5702	

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance. The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstuffs and like objects are not sufficiently permanent to chart.

DESCRIPTIVE REPORT

To accompany  
Smooth Sheet No. 7

Instructions dated March 13, 1928.

Party of Str. DISCOVERER,  
F. G. Engle, H. & G. E. Comdg.

Surveyed by: R. W. Knox

October 2 - 26, 1928

Launch MARTHA  
Starboard Motor Sailor

Survey Methods: A twelve pound lead was used in surveying this area with the exception of the Starboard Motor Sailor when an eight pound lead was used. The leadlines were of sash-cord with phospher bronze centers and were checked frequently. No difficulty was experienced in keeping the error within one percent of the depth. Standard survey methods were followed in obtaining positions and soundings.

DISCREPANCIES: A rock awash, 494 meters north by east of Cone Rock, is shown on the boat sheet but no cuts are recorded in the record. There is a note on pos. 6 a SMS, to the effect that " Line bends to avoid breaker". The rock was transferred to the smooth sheet. The rock is shown on topographic sheet E as a sunken rock, but was observed to be awash at 1/4 tide by this party.

DANGERS: On the lower end of the sheet the dangers are within the ten fathom curve. On the upper end of the sheet there are only two rocks outside the line formed by House Rock, White Rock and Goat Island. One located by topography in lat. 42 05 1759 m. long. 124 21 910 m., the other by both parties, 460 meters westnorthwest of White Rock.

ANCHORAGES: The anchorage was surveyed on larger scale sheet.

COMPARISON WITH PREVIOUS SURVEYS: The following rocks are not on photostat of sheet H 1240 and not located by topography:

In area covered by Topo. sheet C: T4410

Sunken rock - lat. 42 06 306 m. long. 124 21 617 m. pos. 7 e MARTHA

Rock awash - lat. 42 04 1810 m. long. 124 20 164 m. pos. 13 e "

Rock awash - lat. 42 04 623 m. long. 124 19 671 m. pos. 18 e "

Rock awash - lat. 42 04 500 m. long. 124 19 680 m. pos. 19 e "

In area covered by Topo. sheet E: T4404

Rock awash - lat. 41 57 200 m. long. 124 13 120 m. pos. 19a SMS

Rock awash - lat. 41 58 1390 m. long. 124 13 10 m. pos. 116 a MARTHA

Respectfully submitted,

*Robert W. Knox, Jr.*  
R.W.Knox, Jr. H.&G.E.

STATISTICS, SHEET No. 7

DATE	LETTER	VOL.	POS.	SOUNDINGS	MILES(stat)	VESSEL
October 2, 1928	a	1	129	411	25.2	Launch MARTHA
" 13	" b	1	67	157	11.6	" "
" 15	" c	1	16	51	2.8	" "
" 24	" d	1	21	34	1.7	" "
" 26	" e	1	<u>21</u>	<u>56</u>	<u>3.2</u>	" "
Total			254	709	44.3	
October 3, 1928	a	1	33	116	5.7	Stbd. Motor Sailor
Totals - - - - -			287	825	50.0	

TIDAL NOTE

The auto-portable tide guage at Brookings, Oregon, lat. 42 03 north, long. 124 16 west, was used in reduceing the soundings on this sheet.

The plane of mean lower low water on the <sup>au</sup>g~~ge~~ was 1.59 feet.

The ~~tabulations~~ tabulations for highest and lowest tides observed have not been made.

APPROVAL BY CHIEF OF PARTY

Hydrographic sheet 7 and accompanying records are approved. Office work only was done under my supervision, the field work being done by detached party under only occasion supervision. No additional work is considered necessary.

  
F. G. Engle, H. & G. Engr.  
Commndg. Str. DISCOVERER.

April 18, 1929.

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in  
2 volumes of sounding records for

HYDROGRAPHIC SHEET 4872

Locality: vicinity of Brookings, Southern Oregon.

Chief of Party: P. C. Whitney in 1928  
Plane of reference is mean lower low water, reading  
1.0 ft. on tide staff at Brookings, Oregon.~~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. Whitney

Chief, Division of Tides and Currents.

SECTION OF FIELD RECORDS

REPORT ON SHEET - H-4872

OCTOBER - 17 - 1929

CHIEF OF PARTY - F. G. ENGLE

SURVEYED IN - OCT. 1928.

PROTRACTED BY - C. J. WAGNER

SURVEYED BY - R. W. KNOX

VER & INK BY - W. H. BAMFORD

SOUNDINGS PLOTTED BY - R. W. K

1.) The records were found to conform to the requirements of the General Instructions, except that the notes indicating "bottom characteristics" were misspelled, ~~and~~ Bottom characteristic notes showing "Rk" on a practically uniform bottom were interpreted as "rky" -

2.) The plan and character of development fulfill the requirements of the General Instructions.

3.) There were no sounding line crossings on this sheet.

4.) It was possible to draw the usual depth curves.

5/ The bottom characteristics were misplaced and in many instances entirely omitted. The Hydrographic station "GULL" was not checked or the customary blue circle put around it. <sup>\* (The circle added)</sup> This was done by the verifier. The shoreline and rocks were not on this sheet. As there was no further hydrography inshore - the verifier transferred the shoreline and rocks within and adjacent to the hydrography from the Topographic Sheets T-4404 T-4410 & T-4423

6/ The spacing of the soundings was fair - ~~not~~ quite 10% having ~~to be~~ done over. The protracting was excellent.

7/ The junctions with the adjacent sheets were satisfactory.

8/ The work was legible and the sheet was reasonably clean.

Respectfully Submitted  
Clarence H. Bamford

Section of Field Records  
Report on Hyd. Sheet No. 4872  
Pyramid Pt. to Cape Ferrello, California and Oregon  
Surveyed in 1928  
Hand lead Soundings

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 - H. H. Bamford.

1. The records conform to the requirements, except that the abbreviation "Rk" was sometimes used when "rky" was apparently intended.
2. The plan and extent of the survey conform to the General and Specific Instructions.

3. No cross lines were run.
4. The information is sufficient for drawing the usual depth curves.
5. The junctions with the following sheets, H. 4860, H. 4862, H. 4863, H. 4864 and H. 4877 are satisfactory.
6. The usual amount of field plotting was well done by the field party, except that the bottom characteristics were not carefully plotted. The shoreline was put on the sheet in the office. Only the rocks within and adjacent to the hydrography have been transferred. The rocks inshore from the limits of the sounding lines, should be taken from the topographic sheets.

The rock awash  $338^{\circ}$ , 180 meters from Cone Rock is shown as a dry rock on T. 1216. From the note in the sounding record at pos. 126a, it seems probable that the topographer saw this rock at some intermediate stage of the tide when it was bare.

The rock  $315^{\circ}$ , 360 me. from Cone Rock, while shown as a sunken rock on both T. 1216 and T. 4404, is shown as a rock awash from the note in the sounding record at pos. 105 a, which calls it "awash" when there was 6 feet of tide.

The rock  $11^{\circ}$ , 494 me. from Cone Rock, is also shown as a sunken rock on both T. 1216 and T. 4404, but is shown as a rock awash on this sheet by authority of the statement in the descriptive report, in paragraph headed "Discrepancies".

7. Character and scope of surveying - good.

The work on this sheet does not cover much ground, but merely fills in two gaps between adjoining sheets. On the upper portion of the sheet, split lines between the two outside lines would have been desirable.

8. No additional work is considered necessary.

Reviewed by R. L. Johnston

Jan 23, 1930.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4872

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. 7

REGISTER NO. 4872

State CALIFORNIA AND OREGON

General locality NORTHERN CALIFORNIA & SOUTHERN OREGON

Locality ~~BROOKINGS~~ Pyramid Pt. to Cape Ferrel

Scale 1/20000 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. Bawford

Verified by Warren H. Bawford

Instructions dated March 13, 1928

Remarks:

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. 4872

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

Number of positions on sheet . . . . . 287 .  
Number of positions checked 50 . . .  
Number of positions revised . 3 . . .  
Number of soundings recorded . 825 .  
Number of soundings revised . 62 .  
Number of signals erroneously  
plotted or transferred . . . . . 0 . . . . .

Date: -- Oct. 17 - 1929. --

Cartographer: Warren H. Bamford.