4819

Diag. Cht. No. 5702-2

Form 504					
DEPARTMENT OF COMMERCE					
U. S. COAST AND GEODETIC SURVEY					
State: OREGON					
115613					
DESCRIPTIVE REPORT.					
Hydro. Sheet No. 6 4819					
LOCALITY:					
Coast of Oregon Cape Sebastian					
Rogue River Reef Rogue River Reef to Cape					
and Hubbard Mound Sebastian					
5.					
1928•					
CHIEF OF PARTY:					
A.P.Fatti					

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC

SHEET NO. 6 (Field Number), NORTH ROCK TO CAPE SEBASTIAN.

DATE OF INSTRUCTIONS.

Instructions covering this survey were dated March 19,1928.

LIMIT AND EXTENT.

This sheet covers the area from Latitude 42 33 to Cape Sebastian, Oregon, and makes a junction with Sheet 4 (Field No.) Sheet 4505, Sheet 1945 and Sheet 1946.

SURVEY METHODS.

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

Soundings from the beach to 15 fathoms were taken with the hand lead, beyond that depth soundings were obtained with the Standard Coast Survey Hand Sounding Machine, using stranded wire.

Chartered Launch Rogue was used on this Survey.

DANGERS AND SHOAL SOUNDINGS NOT INDICATED ON CHART 5951.

1. A rock with 31 Feet at MLLW over it and marked by anchored kelp,

Lat. 42° 31' (88 meters). Long. 124° 27' (89 "). Position of least sounding is Vol.3; 137g.

2. A rock with 31 Feet at MLLW over it,

Lat. 42° 30' (1766 Meters).

Long. 124° 26' (580 ").

Position of least sounding is Vol 1; 69a.

Chart 5951 shows a sounding of 8½ Fathoms at this spot.

3. A rock with 8 Feet at MLLW over it,

Lat. 42° 30° (927 Meters). Long.124° 27° (1115 "). Position of least sounding is Vol. 2; 97g. This rock shows a breaker. In this vicinity, no indication was found of the $6\frac{1}{4}$ Fathom spot shown on Sheet 1945.

4. A rock with 17 Feet at MLLW over it,

Lat. 42° 30' (1126Meters) Long.124° 27' (50 Meters).



Position of least sounding is Vol. 3; 136 g. This rock was marked by anchored kelp.

Chart 5951 shows no indication of this rock; however there is a 25 Fathom PD shown on Chart 5951 about 650 yds. east of this rock and it is beleived that they are the same rock as no indication of the PD was found at the spot indicated on Chart 5951.

6. A rock with 24 Feet at MLLW over it,

Lat. 42° 30' (859 Meters). Long.124° 26' (759 "). Position of least sounding is Vol.3; 130g.

7. A breaker with 2 Fathoms close to it,

Lat. 42° 30' (710 Meters).
Long. 124° 26' (173 ").
Position of breaker is Vol. 1; 71b.
This breaker comes between sounding lines on Sheet 1945.

8. Rock awash at } tide,

Lat. 42° 30' (1065 Meters).

Long.124 55' (876 ").

Position of this rock is Vol. 1; 110a. This rock is not shown on sheet 1945.

9. A rock with 13 Feet at MLLW over it and marked by anchored kelp,

Lat. 42° 30' (147 Meters). Long.124° 26' (566 "). Position of least sounding is Vol.3; lh.

10. A rock with 29 Feet at MLLW over it,

Lat. 42° 30° (46 Meters). Long.124° 26! (1190 ").

This rock is marked by anchored kelp. Position of least sounding is Vol.3; 39k. Least sounding shown on Chart 595l and sheet 1945 is 134 Fathoms.

11. A rock with 32 Feet at MLLW over it and marked by kelp,

Lat. 42° 30' (0 Meters). Long.124° 26! (900 "). Least shown on Sheet 1945 is 12½ Fathoms.

12. A rock with 25 Feet at MLLW over it,

Lat. 42° 29' (1362 Meters). Long.124° 27' (286 ").

PAGE 3. REPORT FOR SHEET 6.

Position of least sounding is Vol.3; 1k. This rock is marked by anchored kelp.

13. A rock with 2 Feet at MLLW over it,

Lat. 42° 29' (177 Meters). Long.124° 26' (924 "). Position of least sounding is Vol. 3; 41 h.

14. A rock with 26 Feet at MLLW over it,

Lat. 42 28' (1410 Meters).
Long. 124' 27' (140 ").
Position of least sounding is Vol.3; 48 h.

15. A rock with 18 Feet at MLLW over it,

Lat. 42° 27' (1570 Meters). Long. 124° 30' (270 ").

Sheet 1945 shows a sounding of $6\frac{1}{4}$ fathoms west of this sounding which should be retained.

Chart 5702 and 5951 show a sounding of $2\frac{1}{2}$ Fathoms at this spot which should be tetained.

Position of least sounding is Vol. 1; 6b.

16. A rock awash at MLLW

Lat. 42° 26' (1800 Meters).
Long.124° 29' (968 ").
Chart 5951 shows a sunken rock symbol here.
Position of this rock is Vol.3; 26 k.

17. A rock with 6 Feet at Mllw over it,

Lat. 42° 26' (1700 Meters).
Long.124° 29' (817").
There is no indication of this rock on Chart 5951.
Position of least sounding is Vol. 3; 27k.

18. A rock with 13 Feet at MLLW over it,

Lat. 42° 26' (70 maters).
Long.124° 28' (1060").
Position of least sounding is Vol.3; 31k.
Chart 5951 shows a sunken rock symbol here.

19. A breaker in moderate sea.

Lat. 42° 24' (1650 Meters).

Long.124° 29' (355 ").

Chart 5951 shows a sounding of 2½ fathoms which should be retained and noted as marked by kelp. This rock shows a breaker in heavy NW weather. Position of this breaker is Vol.2; 8e.

PAGE 4. REPORT FOR SHEET6.

20. ROrock with 20 Feet at MLLW over, it,

Lat. \$20 25' (850 Meters).

Long. 124° 28' (30").

Chart 5951 shows a least sounding of 7 fathoms at this location.

Position of least sounding is Vol. 2;6e.

21. A rock with 6 Feet at MLLW over it,

Lat. 42° 25' (1072 Meters).
Long. 124° 27' (1020 ").
This rock is marked by anchored kelp.
Chart 5951 shows a sunken rock symbol at this spot.

22. A rock marked by kelp with 21 Feet at MLLW over it,

Lat. 42° 25' (1349 Meters).
Long. 124° 27' (1189 ").
There is no indication of this rock on sheet 1945 or chart 5951.
Position of least sounding is Vol.2; 4e.

23. A rock with 11 Feet at MLLW over it,

Lat. 42° 20° (348 Meters).

Long. 124° 26° (453 ").

Chart 5951 shows a breaker about 250 yards west of this position, which is a mislocation of this rock.

The position of the least sounding 4s Vol. 2; 66 d.

COMPARISON WITH PREVIOUS SURVEYS.

At the junction of sheets 1945 and 1946 single soundings of 52 and 102 fathoms are shown. This spot was investigated but the least water found was 14 fathoms. In cruising and working in this vicinity in heavy weather a watch was kept for breakers at this spot but none were ever seen. It is therefore believed that the position of this sounding is mislocated on sheet 1946 and that this shoal is the same as the one described in the 1 st. paragraph under the heading Dangers etc. The position of this 52 fathom sounding on sheet 1946 should be replotted to ascertain the feasability of the above explanation.

Numerous soundings were taken on the $8\frac{3}{4}$ Fathom spot at the junction of 1945 and 1946 and the least water found was 5 Fathoms one Foot at MLLW.

The 62 Fathom spot west and near the area marked "Breakers" about 3 miles north of Rogue River Reef on 1945 was investigated by a close system of sounding lines and considerable time was

PAGE 5. REPORT FOR SHEET6.

spent in watching for breaks. No indication was found of this sounding- the least found was 16 fathoms as shown on Hydrographic sheet no.6. The position of this sounding should be replotted on Sheet 1945 as it is beleived that it is in error.

The area west of North West Rock was investigated and numerous soundings were taken on the spot where Chart 5702 and Chart 5951 show an "obstruction reported". Soundings over 20 'Fathoms were obtained here. Considerable time was spent in watching for a break in heavy weather in this location but none was seen. The 2½ fathom spot that has been added to Chart 5951 in this vicinity was verified by the fact that 3 Fathoms at MAAN was obtained close to this spot.

Chart 5951 shows a rock close to and to the eastward of the letter R in Rogue or about 300 yards SE of the south tip of North West Rock. There is no rock here.

All the visible rocks and sunken rocks in Rogue River Reef and vicinity were verified and are correctly shown on Topo. Sheet No.G and smooth sheet No.6.

During the period of this survey several Freighters of the Melson Steamship Line were seen passing between the Rogue River Reef and the Mainland and North Rock nad the Mainland. It is recommended that this channel be wire dragged. This channel is not safe for strangers and should not be used by vessells with local knowledge in other but fair weather.

REDUCTION OF SOUNDINGS.

The reference plane for the reduction of soundings is MILW 4.84 Feet on gauge at Port Orford where the tide gauge was located for this work.

All soundings on smooth hydrographic sheet are in Fathoms at MLLW. Soundings on Boat Sheet are in Fathoms approximately reduced by predicted tides.

Respectfully Submitted,

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

STATISTICS SHEET NO.6. (Field No.).

rigit.						
Date 1928	Letter	Volume	Positions	Soundings	Miles Stat.	Vessel.
Aug.3	a	1	114	337	22.2	Rogue
7	ъ	1	71	173	11.0	11
" 8	С	1&2	120	231	22.0	**
" 10	đ	2	109	218	28.1	7.0
" 22	е	2	. 8	7	1.0	TF
Sept.10	f	2	.68	110	4.5	††
" 28	g	2&#</td><td>140</td><td>271</td><td>19.6</td><td>19</td></tr><tr><td>Oct. 16</td><td>h</td><td>3</td><td>67</td><td>155</td><td>10.5</td><td>78</td></tr><tr><td>" 17</td><td>j</td><td>3</td><td>35</td><td>97</td><td>6.5</td><td>r#</td></tr><tr><td>" 18</td><td>35</td><td>3</td><td>43</td><td>67</td><td>6.0</td><td>78</td></tr><tr><td></td><td colspan=2>CLAIOT</td><td>775</td><td>1666</td><td>131.4</td><td></td></tr></tbody></table>				

Area 22 Sq. Naut. Miles.

January 12, 1929.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in volumes of sounding records for

HYDROGRAPHIC SHEET 4819 V

Locality: FRANKPORT to C. SERASTIAN, COAST OF ORECON.

Chief of Party: A. P. Batti in 1928. Plane of reference is men lever lev water, reading,

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

Hydrographie Sheet No. 4519

Cape Sebastian, Roque Rine Reef and Hubbard Mound, Oregon

Surveyed in 1928

Instructions dated March 19, 1925

chief of Party- a.P. Ratti Surveyed by - a.P. Ratti and J.B. Reed Protracted by- J. a. Melson and J.B. Reed Soundings plotted by - J.B. Reed Verified and Inked by - J. J. Jarman

1. The records conform to the reguirements of the General Instructions.

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

3. The usual defith curves can be completely drawn.

4. In general, the field platting was completed to the extent prescribed in the General Instruction.

However, the following ominions

. a. no attention was paid to notes in the records concerning kelp and it was necessary for the affice drafteman to add these symbols to the sheet. b. The notation Rk" was omitted by the field drafteman when platting soundings over sunker rocks. There authority parties notations came from the description of the Breaker motation was omitted in several instances. 5. The junction with HY117 is satisfactory. The junction with Hy505 on the west is satisfactory below the narallel 42° 254. above the parallel 42° 31', there are some discrepancies in the junction with \$4505. The work on \$4505 was done with sounding tubes while the work on this sheet uns secured by means of the machine or lead line. Captain Sabreralshi suggested that it might she were to reject all tube soundings from 144505 un the above locality which do mot agree with the lead line soundings on this sheet. The tube

on this sheet and the apprie draftsman is awaiting further orders.

a similar care occurs on the south where a function with #4489 is affected. The tube soundings of #4489 have been left in pencil pending a decision by the reviewer.

In approximately Lat. 12° 27' to Lat. 42° 28' and Long. 1240 30' to Long 1240 31' there is a close development which is Entirely over lapped by #4505. There is a sharp disagreement between several of the soundings of the two surveys and no adjustment has been made. Vyron the suggestion of those in sutherity, the affice drafteman did not go completely into these discrepancies Int merely made a few puliminary investigations in order to facilitate the most of the reviewer. a photostat enlargement of the area in question on H 4505 will be found attached to H4F19. a tracing of the above photostat will be attached to this report under the

title ef tracing A. In order to secure a check on "Tracing A", a price of tracing praper was placed over H4F19 and several of the critical soundings of 1 4505 were plotted thereon. It some necessary to plat the trangerlation stations Tryply and sister in order to seeme the proper control in platting positions from the records of #4505. (There signals were platted on H4+19 by the verfeer and checked by J. J. Walker). The tracing resulting from the above operation is labeled Tracing B" and the positions of soundwith the position of soundings on Tracing A". This difference between the two tracingo is juggling and the verifier is it a loss to explain it. The signals involved on both sheets have been checked and no error was discovered. Several positions were checked on Hysos and no error uns found. However, due to the close developement on 44505, it was discavered that

quite a few soundings were platted slightly out of position in order to get them in and that this small error has been magnified on the shotostat enlargement. A concrete example is the original platting of the seven fathour sounding on 144505 at Lat. 42 27' 1256 meters and Long. 124° 30' 365 meters. The above statement probably Aplains some of the discrepancies espanion the two tracings. Shrinkage or a many have something to do with the difference in location of the soundings on the two tracingo, although from a loseral examination it does not appear to be excersive on the two sheets 1/44819 and 144505).

Remarks: The sunken rock ryuntal in Let. 42° 30' 709m and Long. 124° 26' 170m does not belong to the two fathern sounding nearly. but is a separate fix which locate a breaker. Lee Records 1 poo. 715, page 52 of vol. 1.

Inery position seemed to be aff by about the same amount and in the same direction. This condition was attributed to either a protractor in poor adjustment or to shrinkage and as it was slight mo corrections were made.

Tube with repayment of one day.
This particular day pull within
the area questioned above and
its prositions are marked with
red day letters. The tube soundings have green day letters.

The area questioned above an Hysos has been enlarged to a 10000 scale on the same sheet and this enlargement although agreeting in general with the original is not an exact diplicate. The curves in the greationed area of 14419 have not been inked pending the investigation by the reviewer.

The verifier of \$4505 failed to include fractions with sound-Reportly Note J. J. Jarman The rach awach becated in Lat. yro-26'-1718m and Long. 1240-29'- 130m was first shown as a rock awach an the topographic sheet and smooth sheet respectively. The records show (pro. 10g-page 52, vol 2) that this the tider in this locality shows that it is impossible for the above rack to be award since the durnal trole is 6 feet and the extreme tide & feet ! whiched by the records and by division of theles) voing the extreme tide of theet since such a tide was approvened during the period of the survey) a motation, "have 4 feet at High water" was entered and the web changed to a have rock an the smooth street and Topographic sheet respectively. tide instead of the diurnal 6 pool tide the notation apposite lave woch in Lat 42°-26' 1707 m and Long. 124°-29'- 410 m on take sheet was in order to make it conform to records and single sheet. authority for above - E. P. E and a. I. J.

Section of Field Records

Report on Hyd. Sheet No 4819

From Lat. 42°-33' to Cape Sebastian, Oregon

Surveyed in 1928

Instructions dated March 19, 1928 (Lieut a.P. Ratti)

Chief of Party - a. P. Patti
Surveyed by - a. P. Patti and J.B. Reed
Protracted by - G.a. Melson and J.B. Reed
Plotted by - J. B. Reed
Verified and inked by - J. J. Jarman
Verified and inked by - J. J. Jarman

- 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 supplemental work was left largely to the judgement of the chief of party. Such specific instructions as were issued, were carefully carried out, but there are quite a number of shoal indications

on the old sheets, which were not mentioned in the orders, which should have been examined further. For example 4.1945 shows a $3\frac{1}{2}$ fathom spot in a surrounding depth of 7 fathoms, in Lat. $42^{\circ}-26.6$, Long. $124^{\circ}-27.6$. Also a shoal with 18 feet, in Lat. $42^{\circ}-27.3$, Long $124^{\circ}-28$ in a surrounding depth of 9 and 10 fathoms.

Mumerous new shoals were discovered. Some of these are shown by a single sounding. It is presumed that each of these is the result of a detailed examination, with only the shoalest sounding recorded, although this is not stated in the records.

Par. 26 a in the instructions calls for the development of soundings of $5\frac{1}{4}$, $10\frac{1}{2}$ and $8\frac{3}{4}$ fathoms shown at the junction of 4. 1945 and 4. 1946. shown at the junction of was verified and a least. The $8\frac{3}{4}$ fathom spot was verified and a least depth of $5\frac{1}{2}$ fathoms obtained. While the chief depth of $5\frac{1}{2}$ fathoms obtained. While the chief of party intimates that the $5\frac{1}{4}$ fathom spot and of party intimates that the $5\frac{1}{4}$ fathom spot and breaker, shown in Lat. 42° 31.4, Long 124° 26.7 on 34.1946, does not exist, on account of the

extremely irregular bottom, it is considered that the work on 04. 4819 does not disprove the existence of this rock and it should be retained. The plotting on H. 1946 was verified and the positions checked closely. On account of the comparatively distant signals, used in locating these soundings on H. 1946, there is a possibility that there may have been an error in the observations, but this is not evident from the records. No additional sounding is recommended over this reef as only a wire drag could disprove its existence. (approved by a. M. S.)

Par. 26 b in the instructions call for an investigation, in the area marked "breakers" about 3 miles N. N. E. in the area marked "breakers" about 3 miles N. N. E. of Rogue River Reef, of the 64 fathom spot on the west side and the 84 fathom spot on the east side. West side and the 84 fathom spot on the east side. No indication was found of the 64 fathom spot. The least depth obtained was 16 fathoms. spot. The least depth obtained was 16 fathoms. A careful replotting of the lines on A. 1945 failed to show any trace of this sounding in the records. It is believed to be erroneously plotted and a note has been placed on A. 1945 to that effect.

The position of the 84 fathom sounding was verified on 4.1945. The new work shows 94 fathoms dose to it and this sounding is believed to be all right. A rock with 4 fathoms over it was found close to the with 4 fathoms over it was found close to the 2½ fathom P.D. spot, while another rock with 2½ fathoms was located less than a half mile W.N.V. from it. It is therefore seem and should that the 2½ PD be removed. It is therefore the chart come. May 1929.

(Par. 26 i Instructions) The 12 fathom sounding in Lat 42°-28.3', Long 134°-30.3' was examined and a least depth of 10 fathoms obtained.

(Par. 26 j Instructions) U development of the reported obstruction (authority Lighthouse Notice to Mariners 24 - 1925), in approximately Lat 42-27,7, Long 124°-31.0', failed to show any depth under 25 fathoms. It is possible that the position of the obstruction was not accurately obtained. This point should be passed over with the drag in order that the obstruction may be removed from the chart while value of the bottom makes wire dragging the if disproved of the whole arka desirable, the otatement of the chart of my s. May 1929, restricted from the chart of my s. May 1929. a least depth of 3 fathoms was obtained approximately 250 meters east of the charted 2½ fathom spot (authority Letter 329-1925) in Lat. 42°-27.8°, Long. 124°-30.4°. The chief of party

recommends that this spot be retained. If possible this spot should also be passed over with the drag. O.K. arms.

4. Very few cross lines were run, but a comparison of adjacent lines, show good agreement.

5. The information is only sufficient for drawing the curves in some plane.

6. The junction with 4.4817 on the north is satisfactory. The hydrography on A. 4505 does not agree well with the work on the northern limits of this sheet. This work was accepted and tube soundings under 11 fathoms on 9.4505 were rejected.

The western edge of this work does not overlap the eastern limits of H. 4505, between Lat. 42°-30' and Lat. 42°-32'. Below Lat. 42°-24' the junction with A. 4505 is satisfactory.

The development in the area west of Roque. River Reef is difficult to compare with the River Reef is difficult to compare with the development of the same area on H, 4505, due development of the same area on H, 4505, due to the fact that on the latter sheet positions to the fact that on the latter sheet positions were obtained from comparatively distant were obtained from comparatively distant signals and the slight irregularities in the protracting cause duplication of shoal

soundings where only one shoal probably exists. (See verifiers report) The soundings on H. 4819 in this area were accepted, where they differ with 4.4505, and a compilation made accordingly. It should also be noted that many of the soundings on H. 4505 are tube soundings.

The junction on the south with H. 4489, shows poor agreement. Us the soundings on H. 4489 are all tube soundings, they should be superseded by the work on A. 4863, which checks this sheet, by the work on A. 4863, which checks this sheet, (4.4819) and will be placed on this sheet when H. 4863 has been verified.

7. If ith the exception of the omission of the word Rock", "Breakers" and kelp symbols over sunken rocks, the usual amount of field drafting was well done. The protracting is slightly off was well done. The protracting is slightly off over the entire sheet, due either to shrinkage over the entire sheet, due either to shrinkage or a protractor in poor adjustment. The error was too small to warrant reprotracting.

8. Character and scope of surveying - good. More work might have been done around the Limits of Rogue River Reef and more development of shoal indications on the old sheete.

9. The chief of party recommends that the channel, between Rogue River Reef and the mainland, mainland and Morth Rock and the mainland, be wire dragged. Should this be under taken be wire dragged. Should this be under taken there are several other spots over which the drag should be passed. The reported obstruction, shown on chart No. 5951, north west of Rogue River on chart No. 5951, north west of Rogue River Neef and the 5# fathom spot in Lat 42°-31.4', Long 124°-26.7', both of which have been partially

Reviewed by R.L. Johnston

discredited.

april 11, 1929.

Approved AM. Sobieralski

FS Borden

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. 4819
State OREGON
General locality Pacific Coast Cape Sebastian Cape Sebastian, Rogue River Reef and Hubbard Mound Locality Rogue River Reef To Cape Sebastian
Scale 1-20000 Date of survey Aug. 3 to Oct. 18 , 192 8.
Vessel Chartered Launch Rogue.
Chief of Party A.P.Ratti
Surveyed by A.P.Ratti and T.B.Reed
Protracted by G.A.Nelson and T.B.Reed
Soundings penciled by T.B.R.
Soundings in fathoms feet-
Plane of reference MLLW 4.84Ft. Port Orford
Subdivision of wire dragged areas by
Inked by
Verified by
Instructions dated March 19 ,192 3.
Remarks: mhis sheet makes a junction with Reg. No.4505 Sheet 4 (Field No.) and supplements soundings on Page 1945

HYDROGRAPHIC SHEET No. 45-19

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

Dato: -- Merch 27, 1929 -- Cartographer: - Carrographer - Jarman -