

4486 4487

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Form 504
 DEPARTMENT OF COMMERCE
 U. S. COAST AND GEODETIC SURVEY

State: Oregon

11-5613

DESCRIPTIVE REPORT.

Dia. ⁵⁷⁰²⁻¹₅₈₀₂ **4486**
 Hydro. Sheet No. **4487**

LOCALITY:

— 4486 —
Pacific Coast

C. Blanco to Blacklock Pt.

— 4487 —
Pacific Coast

Caquille Pt.

1925

CHIEF OF PARTY:

E. H. Bernstein



DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

C. & G. SURVEY
L. & A.
NOV 30 1925
Acc. No.

4486

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey

Register No. *"C" 4486*

State *Oregon*

General locality *Pacific Coast*

Locality *Cape Blanco to Blacklock Pt.*

Chief of party *E. H. Bernstein*

Surveyed by *E. H. Bernstein*

Date of survey *October 1925*

Scale *1:20,000*

Soundings in *Fathoms*

Plane of reference *2.64 ft. (Port Orford) M.L.L. water*

Protracted by *V. A. Powell* soundings in pencil by *E. H. B.*

Inked by *V. A. P.* Verified by *E. H. B.*

Records accompanying sheet (check those forwarded):

Des. report, Tide books, Marigrams, Boat sheets,

* Sounding books, Wire-drag books, Photographs.

Data from other sources affecting sheet

Remarks:

* *Only one sounding record for sheets "B" & "C"*

DEC 29 45 AM '25

DESCRIPTIVE REPORT

To accompany

Hydrographic Sheets "B" & "C"

General Locality: Pacific Coast.

Sublocality: Coast of Oregon.
Coquille River to Cape Blanco.

1925

E.H. Bernstein, Chief of Party

DESCRIPTIVE REPORT TO ACCOMPANY SHEETS "B" & "C".

(a) Authority:
Orders dated August 31st, 1925.

(b) Limits:
Coast of Oregon, south of Coquille River to Cape Blanco; latitude $43^{\circ}-07'$ to $42^{\circ}-50'$ / Uncompleted from latitude $43^{\circ}-02'$ to $42^{\circ}-53'$.

(c) Inshore Danger:
Wash Rock breaks at all stages of tide, Coquille Rock breaks only in very heaviest weather. Region between latitudes $43^{\circ}-06'$ and $43^{\circ}-08'$ should be more thoroughly examined. The party had no chance to make developments of sunken rocks shown on charts #5971 and #5952. The importance of detail development in this region can not be stressed too strongly.

(d) Currents:
In general the launch was set towards the south; the amount of set varying directly with the northerly winds.

(e) Landmarks:
A list of landmarks accompanies the report for the topographic sheet of this region.

(f) Bars and Channels:
Bandon bar is passed by launches only at or near high tide and not long after the beginning of the ebb. Under the usual local weather conditions the bar breaks at almost all the time. An examination of the last issue of chart No. 5971, of September 21st, 1925, shows the condition prevailing. The very narrow deeper passage of 16 ft. between the 9 ft and the 12 ft depth shown, is so disturbed even if the bar does not actually break here, that a small boat has a very difficult time. The city of Bandon is employing a drag dredge inside the river and a suction dredge, towed by a tug, for dredging operations in the river. A depth of 14 ft minimum is claimed for the bar. To make the bar, boats come up to buoy C, "CR" and proceed towards the entrance along the line of the south jetty, favoring the southern half of the entrance on going in. No soundings were made by this party over the bar, but observations of the breaking bar show that the latest soundings given by the U.S. Engineers must still about hold good. Local authorities claim that the bar is continually changing, depending upon the stage of flood of the river and winds along the coast. The magnitude of these changes is demonstrated on a smaller scale by the Sixes River, two miles north of Cape Blanco, which river after a day of extremely

STATISTICS

SHEET NO. B.

Date 1925	Letter	Volume	Positions	Soundings	Miles Statute	Vessels
Sept			q			
Sept. 26	A	1	43	140	8.1	Traveler
Sept. 28	B	1	71	235	7.5	Traveler
Oct. 5	C	1	17	49	2.0	Traveler
Oct. 12	D	1	36	68	8.0	Traveler
Oct. 16	G	1	85	234	16.5	Traveler

STATISTICS

SHEET NO. C.

Date 1925	Letter	Volume	Positions	Soundings	Miles Statute	Vessel
Oct. 13	E	1	72	188	16.3	Traveler
Oct. 14	F	1	96	215	21.6	Traveler

(J) Tides.

For the reduction of soundings, tides at Port Orford were used on the following dates:-

October 12, 13, 14 and 15th.

Tides on working grounds were taken as 30 minutes later than the observed tide at Port Orford.

For the following dates, observed tides at Coquille River Station at Bandon were used because of failure of gauge at Port Orford to operate:-
September 26 and 27th; October 5th.

Tides on working grounds were taken as 15 minutes earlier than the observed tides at this station.

Port Orford tides are from record of Str. GUIDE. Coquille River tides are taken from accompanying marigrams.

heavy westerly swells, closed up its mouth entirely, putting a stop to salmon fishing in it. For the greater part of the time this shore party was bar bound at Bandon. A picture showing the bar, not at its worst, has been sent to the office with the season's report.

This party made the run from Cape Blanco to Port Orford in its 38 ft launch several times. Always terrific chop was encountered in the region 2 1/2 miles from Cape Blanco and on the line Cape Blanco to N.W. Rock. On chart No 5952, this passage, between Port Orford Reef and the mainland, is conspicuously designated "Steamer Channel". The advisability of laying stress upon this passage by the designation given on our charts, is strongly doubted. To a vessel approaching from southward, the time saved by taking this passage over rounding Port Orford Reef on the outside, is negligible, and does not compensate for the dangerous narrow passage above referred to. Local fisherman in any except moderate westerly weather prefer to go on the outside of Port Orford Reef in their launches. The prevalence of foggy weather adds the big dangerous element for larger ships in making this passage.

(g) Changes of Coast Line:
See report for accompanying topographic sheets.

(h) Survey Methods:
Usual methods of launch hydrography. In general soundings by hand lead to about 12 fathoms, then vertical casts by hand sounding machine to junction with work of Steamer GUIDE, 1924. Control was by objects, natural and artificial located by P.T. methods from triangulation points. Sunken rocks shown on charts Nos. 5971 and 5952, should be investigated, see (d) above.

(i) A table of statistics accompanies this report.

(k) *These sheets are forwarded for advance use; boat sheets have been transferred to Ste. Guide for future completion.*

Respectfully submitted,

E. H. Bernstein
E. H. BERNSTEIN,
Lieut. U.S.C. & G.S.

Forwarded -

T. J. MAHER,
COMMANDING OFFICER,
STEAMER GUIDE.

November 21st, 1925.

B/

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON April 29, 1926.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4486

Cape Blanco, Oregon

Surveyed in 1925

Instructions dated April 29, 1924 (GUIDE)

Orders dated August 31, 1925 (E.H.Bernstein)

Chief of Party, E. H. Bernstein.

Surveyed by E. H. B.

Protracted by V. A. Powell.

Soundings plotted by E. H. B.

Verified and inked by G. Risegari.

1. The records conform to the requirements of the General Instructions except in the following respects:
 - a. The soundings for this sheet are included in the same volume with those of H. 4487.
 - b. In several instances notes appear in the record: "Rock awash at L.T.", when as a matter of fact the height of the tide at the time was 6 to 7 feet above M. L. L. W.
 - c. Bottom characteristics were entirely omitted on E day.
2. The plan and character of development conform to the requirements of the General Instructions.
3. The detailed instructions for this survey are not available, but the plan and extent conform to the instructions to the GUIDE of April 29, 1924 with the exception that no cross lines were run. As far as information relative to rocks and submerged dangers is concerned, the survey is incomplete particularly in the area southwest of Cape Blanco and the area west of Blacklock Pt.

The work was not carried close inshore but it is assumed that the party found it too dangerous to extend the work any nearer shore than was done.

ON ORIGINAL DOCUMENT

GPO

4. The information was sufficient for drawing the usual depth curves except off Cape Blanco and in the vicinity of Gull Rock.
5. The usual field plotting was done by the field party.
6. The junction with H. 4452 on the west is satisfactory. The junction with H. 1946 and H. 1300 on the south is satisfactory.
7. This survey cannot be considered as complete for the following reasons:
 - a. The area in the vicinity of the 10 ft. P. D. spot about 1 mile northwest of Blacklock Pt. (Authority, letter 635 - 1909) should be investigated and a more accurate determination obtained for the shoal.
 - b. The area in the vicinity of the + P. D. about 1/2 mile southwest of Cape Blanco Light (Authority, letter 246 - 1917) should be closer developed. This is apparently a used passage as a steamer struck here while proceeding on its usual course. According to the report the rock is covered by about 4 ft. of water at M. L. L. W.
 - c. It is recommended that on account of the many rocks existing in this locality the area inside the 10 fathom curve should be developed by lines spaced closer than 1/4 mile, called for in the instructions.
 - d. The areas off Cape Blanco and Blacklock Pt. require additional development as noted on the sheet by the surveyor.
8. Attention is called to the following summary relative to offshore rocks in this vicinity:
 - a. There are numerous rocks shown on T. 1130 that are not shown on the present survey.
 - b. There are a number of rocks shown on the present survey that do not appear on the older survey (T. 1130).
 - c. There are several rocks on the present survey that appear to be the same as located on T. 1130 but which differ slightly in location.

In view of the above discrepancies together with the fact that the survey is incomplete, it is recommended that for cartographic purposes, all the rocks falling under (a) of the above

classification be retained; those included under (b) be added to the charts and those falling under (c) the old location should be used. This also applies to the area around Blacklock Pt. where the details on the three sheets covering this area (T. 1130, T. 4110, H. 4486) differ.

The rock awash at H. W. (on H. 4486) about 700 meters northwest of Blacklock Pt. is doubtless the same rock shown bare on T. 4110 about 40 meters to the northward.

9. No boat sheet was transmitted with this sheet nor was there any sheet sent in showing the locations of the various topographic signals used. © Has north of Castle Rock is apparently on an offlying rock, but no rock symbol is shown. There is no information in the office to supply this.

A statement should have been made in the descriptive report as to the source from which the shoreline on the sheet was taken.

10. In conclusion it is desired to state that the reviewer is fully cognizant of the difficulties the party had to contend with, which doubtless account for many of the shortcomings mentioned above.
11. Character and scope of field operations and field drafting, good.

Reviewed by A. L. Shalowitz, April, 1926.

Note:

This sheet is classified as acceptable for the area outside the 9-fathom curve and is considered as reconnaissance inside this curve. It is recommended by the Chiefs of Field Work and Field Records that the latter hydrography be not charted pending additional development.

Oct. 20, 1926.

TIDES: HOURLY HEIGHTS

*M.L.L. water on
staff at Port Orford
= 2.64'*

Station: Port Orford, Oregon. Year: 1925

Chief of Party: _____ Lat. _____ Long. _____

*Time Meridian: 120 W Tide Gauge No. _____ Scale 1: _____ Reduced to Staff. _____

11-702

Month and Day.	mo.	d.	d.	d.	d.	d.	d.	d.	d.	Horizontal Sum.
Oct 12			13	14	16					
Day of Series.										
Hour.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.
0	<i>Copied from records of Sta. Guide.</i>									
1										
2										
3										
4										
5										
6										
7										
8	8.5	8.4	8.3	7.6						
9	8.6	8.9	9.1	8.7						
10	8.3	8.8	9.3	9.6						
11	7.8	8.2	8.9	9.8						
Noon.	7.0	7.4	8.0	9.1						
13	6.5	6.5	6.9	7.9						
14	6.1	5.8	5.8	6.5						
15	6.2	5.5	5.1	5.0						
16	6.6	5.7	5.0	4.1						
17										
18										
19										
20										
21										
22										
23										
Sum.										

*Reduced by E.H.B.
Checked by V.A.P.*

Sum for 29 days, 1 to 29 of _____ =

Divisor=696; mean for 29 days=

Tabulated by _____ Date _____ Summed by _____ Date _____

TIDES: HOURLY HEIGHTS

Station: _____ Year: _____

Chief of Party: _____ Lat. _____ Long. _____

Time Meridian: _____ Tide Gauge No. _____ Scale 1: _____ Reduced to Staff. _____

11-792

Month and Day.	mo.		d.		d.		d.		d.		d.		Horizontal Sum.
Day of Series.													
Hour.	Feet.		Feet.		Feet.		Feet.		Feet.		Feet.		ft.
0													
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
Noon.													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
Sum.													
Sum for 29 days, 1 to 29 of _____ =													Divisor=696; mean for 29 days=

Tabulated by _____ Date _____ Summed by _____ Date _____

TIDES: HOURLY HEIGHTS

Station: Cogswill River, Oregon Year: 1925
 Chief of Party: E. H. Bernstein Lat. 43-07-15 Long. 124-25-00
 Time Meridian: 120W Tide Gauge No. _____ Scale 1: _____ Reduced to Staff. _____

11-792

Month and Day.	mo.	d.	d.	d.	d.	d.	d.	d.	d.	Horizontal Sum.
	Sept	26	28			Oct	5			
Hour.	Fect.		Fect.		Fect.		Fect.		Fect.	Fect.
0	.		.		.		.		.	.
1	.		.		.		.		.	.
2	.		.		.		.		.	.
3	.		.		.		.		.	.
4	.		.		.		.		.	.
5	.		.		.		.		.	.
6	.		.		.		.		.	.
7	.		.		.		.		.	.
8	9.4		7.6				3.5			.
9	8.6		7.9				4.4			.
10	7.9		7.5				5.7			.
11	7.3		6.8				7.1			.
Noon.	7.0		5.8				8.4			.
13	7.4		4.9				9.2			.
14	8.2		4.3				9.2			.
15	9.4		4.3				8.3			.
16	10.5		4.9				6.9			.
17	.		.				.			.
18	.		.				.			.
19	.		.				.			.
20	.		.				.			.
21	.		.				.			.
22	.		.				.			.
23	.		.				.			.
Sum.										

*Reduced by E.H.B.
Checked by V.A.P.*

Sum for 29 days, 1 to 29 of _____ = Divisor=696; mean for 29 days=

Tabulated by _____ Date _____ Summed by _____ Date _____

TIDES: HOURLY HEIGHTS

Station: _____ Year: _____

Chief of Party: _____ Lat. _____ Long. _____

Time Meridian: _____ Tide Gauge No. _____ Scale 1: _____ Reduced to Staff. _____

11-702

Month and Day.	mo.	d.	d.	d.	d.	d.	d.	d.	d.	d.	Horizontal Sum.
Day of Series.											
Hour.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	R
0											
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
Noon.											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
Sum.											
Sum for 29 days, 1 to 29 of _____ =											Divisor=696; mean for 29 days=

Tabulated by _____ Date _____ Summed by _____ Date _____

January 8, 1926.

1926

5

ON ORIGINAL DOCUMENT

~~Division of Hydrography and Topography:~~

Division of Charts:

Tide reducers are approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEETS No. 4436 and 4437

Locality: Coast of Oregon

Chief of Party: E. H. Bernstein in 1925

Plane of reference is MLLW

3.5 ft. on tide staff at Sandus

3.4 ft. on tide staff at Fort Orford

For reduction of soundings, 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 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



Chief, Division of Tides and Currents.

Hyd Sheet No 4487

There are no noteworthy features about this work except that the work is incomplete. Much closer development is needed in the vicinity of Coquille Pt.

The boatsheets were retained by the field party.

The records are satisfactory except that it would have been better to have used separate sounding records for Hyd. 4486 and Hyd 4487, instead of recording all the work in one volume.

The protracting and plotting was well done.

R. L. Johnston

Jan 20, 1926.

DESCRIPTIVE REPORT TO ACCOMPANY

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

January 30, 1926.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4487

Coquille Point, Oregon

Surveyed in 1925

Chief of Party, E. H. Bernstein.

Surveyed, protracted and soundings plotted by E. H. Bernstein.

Verified and inked by R. L. Johnston.

1. The records are defective in that the source of the signals is not indicated; the soundings of the survey at Cape Blanco (H. 4486) are included in the same volume with those of H. 4487; an antiquated type of sounding volume was used.
2. The plan and character of hydrographic development conform to the requirements of the General Instructions.
3. The specific instructions for this survey are not available.
4. The sounding line crossings are adequate.
5. The information is sufficient for drawing the usual depth curves except off Coquille Pt.
6. The usual field plotting was done by the field party.
7. The junction with the adjoining survey is adequate.
8. The hydrographic development of this sheet is adequate except in the vicinity of Coquille Pt. where, as stated by the surveyor in the descriptive report and on the sheet, additional development is needed.
9. Numerous signals were located on offlying rocks but in no cases are the rock symbols shown.

The representation of rocks on T. 1813, T. 4110 and H. 4487 all differ, and it is impossible to know whether the differences indicate omissions of rocks or different locations for the same rock.

ON ORIGINAL DOCUMENT

GPO

Examples are:

⊙ Ren on H. 4487 is located where T. 4110 shows clear water but where T. 1813 shows a rock.

A rock 600 meters N by E of Greystone on T. 4110 is not shown on H. 4487 nor T. 1813.

⊙ Mal is shown on H. 4487 where both T. 4110 and T. 1813 show clear water.

⊙ Char is located 100 meters outside of high water line where both T. 1813 and T. 4110 show a sandy beach clear of rocks.

10. The signals on H. 4487 are shown by red circles and red lettering although none of them (excepting ⊙ Dot) are to be found on T. 4110. Therefore the manner of locating the signals on H. 4487 is unknown. *
11. As a result of the confusion of rock representation in the area of this sheet each survey discredits the others, without itself clearing up the discrepancies, and it will be impossible to chart the rocks correctly. A complete topographic survey that will displace all other surveys appears to be the only solution. An airplane survey would give the best results. R.
12. The character and scope of the surveying and field drafting are fair.
13. Reviewed by E. P. Ellis, January, 1926.

* Signals on 4486 + 7 were determined on T 4216 + 17 in 1925. The shoreline had been run in the previous year. However there is a discrepancy between the two sheets which must be corrected in the field by a reexamination R.

Report on Hyd. Sheet 4486

The character and completeness of the records accompanying this sheet are satisfactory, except for the failure by field party when recording the machine soundings the times for "stop" and "ahead".

Customarily, this important information is given, as it enables the spacing of the intermediate soundings between positions, to be plotted more accurately, — the time considered being the actual running time of boat.

Protracting and plotting of soundings were done satisfactorily.

The sheet was clean, legible, and in general satisfactory as to draftsmanship.

Respectfully submitted,

S. Riseyari

April 16, 1926.