4884 4885 4886
4887 4891

4884 4885 4886
4887 4891

Diag. Cht. No. 5802

Form 504.

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. ..... Office No. 4884 – 4887
4891

LOCALITY

State Oregon

General locality Coquille River

Locality to Siuslaw River

1928

CHIEF OF PARTY

O. W. Swanson.

LIBRARY & ARCHIVES

DATE .....

8-1870-1 (1)++

4884 - 4887 inclusive
4891

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

....., *Director*

State: Oregon

DESCRIPTIVE REPORT

~~*Topographic*~~
Hydrographic } *Sheet No.*

Field 12: 4884 4885 4886 4887
" 13
" 14
" 16
" 17 4891

LOCALITY

Coquille River to Siuslaw River

1928

CHIEF OF PARTY

O.W. Swainson

GOVERNMENT PRINTING OFFICE

4884 - 4887 inclusive
4891

DESCRIPTIVE REPORT

TO ACCOMPANY

4884 4885 4886 4887 4891

HYDROGRAPHIC SHEETS NOS. 12, 13, 14, 16, & 17.

OREGON COAST

SURVEY VESSEL PIONEER

O. W. SWAINSON - COMD'G.

1928

D E S C R I P T I V E R E P O R T

TO ACCOMPANY HYDROGRAPHIC SHEETS 12, 13, 14, 16 AND 17.

INSHORE HYDROGRAPHY COAST OF OREGON

AUTHORITY

Director's instructions dated March 3, 1928; supplemental instructions dated June 23, 1928, and September 22, 1928.

SCALE

Sheets 12, 13, 14, and 17 were surveyed on a scale of 1 : 20,000; sheet 16 on a scale of 1 : 10,000.

SURVEY METHODS

Sounding was done by hand lead only. The speed of the launch was regulated so that only reliable vertical casts were obtained. In depths over 13 fathoms the clutch was thrown out to slacken the speed sufficiently for casts of the lead. Beyond 15 fathoms it was necessary to reverse the propeller and come to a practical stop for the casts.

All fixes were on definite objects, mainly on triangulation points supplemented by topographic points.

DISCREPANCIES

Minor discrepancies found have been adjusted on the smooth sheets.

LIMITS

These launch sheets cover the hydrography between the ship work and the shore from latitudes 44° 03' to 43° 08'.

DANGERS

As much development as opportunity offered was made on Coos Bay bar on sheet No. 16. A shoal had been reported by mariners immediately south of whistle buoy "K", but no indications of this were found, except that the bar has shifted further to seaward. The shoal area 1/2 mile to the southeast of buoy "K" has been reported to break before the rest of the bar. This breaking I believe is not due to shoal depth in itself, but to the position of this shoal depth to seaward.

The depth of 11 feet on Baltimore Rock, off Coos Head, was not verified nor disproved. A minimum sounding of 6 fathoms was obtained near this shoal. No opportunity was offered for more thoroughly developing the region near Baltimore Rock because of continuous heavy swells. The spot was never seen breaking, however.

CHANNELS

No developments were made inside the bars of the various rivers, but proper junction was made with blue prints of the latest surveys by the U. S. Engineers. Soundings were found to agree very well with the U. S. Engineer's soundings.

ANCHORAGES FOR LAUNCHES

This part of the Oregon coast does not funish any good shelter for launches, but during the fishing season in good weather small boats do occasionally anchor in Sunset Bay, south of Cape Arago Light House.

COMPARISONS WITH PREVIOUS SURVEYS

No discrepancies with previous surveys were found. On sheet 17, however, between latitudes 43° 13' and 43° 17' shoal depths were found on development of the junction with the ship work of 1922.

TIDES

Newport tides reduced one foot for range were used for sheet 12, "a" day of sheet 13, and "b" and "c" days of sheet 17; Umpqua River tides on "b" and "c" days of sheet 13, "a" days of sheets 14 and 16; Coos Bay tides were used for all other days.

Approved and Forwarded:

O. W. Swainson

O. W. Swainson,
H. & G. Engineer,
Chief of Party.

STATISTICS

HYDROGRAPHIC SHEET NO. XII.

Date 1928	Day Letter	Vol.	Bomb Pos.	Log Pos.	Visual Posn	Stat. Miles	Soundings F.R.	Soundings F.W.	Soundings Sonic	Soundings Leadline	Soundings Boat
Aug. 14	a	1			12	3.2				46	WISDOM
16	b	1			71	26.3				385	"
17	c	1			12	3.2				50	"
20	d	1			6	1.9				18	"
22	e	1			8	2.2				13	"
24	f	1			31	11.5				204	"
Sept. 4	g	1			63	17.1				238	"
5	h	2			104	39.7				580	"
Totals					307	105.1				1534	

STATISTICS

HYDROGRAPHIC SHEET NO. XIII.

Date 1928	Day Letter	Vol.	Bomb Pos.	Log Pos.	Visual Pos.	Stat. Miles	Soundings F.R.	F.W.	Sonic	Leadline	Boat
Sept. 6	a	1			74	28.6				409	WISDOM
7	b	1			64	22.5				275	"
8	c	1			11	4.5				60	"
19	d	1			26	7.4				98	"
Oct. 12	e	1			16	4.6				62	"
Totals					191	67.6				90 4	

STATISTICS

HYDROGRAPHIC SHEET NO. XIV.

Date '28	Day Letter	Vol.	Bomb Pos.	Log Pos.	Visual Pos.	Miles	Soundings F.R.	Soundings F.W.	Soundings Sonic	Soundings Leadline	Boat
Sept. 8	a	1			29	16.3				286	WISDOM
19	b	1			89	32.8				354	"
28	c	1			18	6.9				71	"
Oct. 12	d	1			88	23.0				321	"
Totals					224	79.0				1032	

STATISTICS

HYDROGRAPHIC SHEET NO. XVI.

Date 1928	Day Letter	Vol.	Bomb Pos.	Log Pos.	Visual Pos.	Stat. Miles	Soundings				Boat
							F.R.	F.W.	Sonic	Leadline	
Sept. 13	a	1			92	22.1				328	WISDOM
18	b	1			94	16.8				285	"
24	c	1			85	16.6				271	"
28	d	1			5	1.1				18	"
Oct. 2	e	2			55	10.5				156	"
Totals					331	67.1				1058	

STATISTICS

HYDROGRAPHIC SHEET NO. XVII.

Date 1928	Day Letter	Vol.	Bomb Pos.	Log Pos.	Visual Pos.	Stat. Miles	Soundings F.R.	Soundings F.W.	Soundings Sonic	Soundings Leadline	Boat
Oct. 25	a	1			73	25.1				313	WISDOM
27	b	1			51	22.0				210	"
31	c	1			39	10.6				97	"
Nov. 30	A	2			91	40.0	496			40	PIONEER
Dec. 1	B	2			104	43.0	276			156	"
" 1	"a"	3			44	13.0				223	Motorsailer Y
Totals					402	153.7	772			1039	

Form 567

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DIVISION OF CHARTS, FILE NO. .....

LANDMARKS FOR CHARTS

USC & GSS PIONEER

March 5, 1929., 19

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:

O. W. Swainson.
Chief of Party.

DESCRIPTION.	POSITION.						Method of determination.	Charts affected.
	Latitude.			Longitude.		Datum.		
	° ′	D. M. meters.		° ′	D. P. meters.			
Old Tower, of old Cape Arago L. H.	43 20	1191		124 22	744	N. A.	Topo.	5984; 5802
This object has been omitted on present issues of the above charts. It is essential that it be charted as well as the New Cape Arago Light House to make the mariner aware of its presence and prevent its being mistaken for the new light house now in use.								
NOTE (See list of Landmarks for Charts accompanying Descriptive Reports for ship sheets).								

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, flagstaffs and like objects are not sufficiently permanent to chart.

11—5948

ACCEPTED POSITIONS OF HYDROGRAPHIC SIGNALS

SHEET 17 - Scale 1 : 20,000.

	Latitude			Longitude		
	°	'	m. (1238)	°	'	m. (1271)
Lone	43	14	614	124	24	83

REPORT OF COMMANDING OFFICER'S INSPECTION

OF RECORDS AND SHEETS.

Sheets 12, 13, 14, 16, and 17, and their records have been examined and approved by me. Each individual record was not examined thoroughly but all doubtful entries found by the various officers when working on the records were examined and acted on. The officers were instructed to examine the records closely when they plotted the positions, reduced the soundings, and put the soudings on the sheet.

The field work of the launch hydrography was examined only from time to time during the season as the launch party was not in contact with the ship.

O. W. Swainson

O. W. Swainson,
H. & G. Engineer,
Chief of Party.

Section of Field Records

Report on sheet No. 4885
Surveyed in 1928 Instructions 3/3/28
Chief of Party - O.W. Swainson
Surveyed by - C.N. Bernstein
Protracted by - L.J. Crosby
Soundings plotted by - L.J. Crosby
Verified and inked by - J.N. Church

1. The records conform to the requirements of the general instructions
2. The plan and character of the development fulfil the requirements of the general instructions.
3. The junction with H. 4886 is adequate and satisfactory.

The other adjoining sheets have not been verified and therefore the junction with them was not examined.

Remarks:-

Positions 5a, 40a, 16, 36, 25b 29b, 34b, 17d and 23d were not plotted.
Positions 45b, 46b and 47b

were evidently misplotted, using "A pple" as the light signal & the "fix" instead of "Al".

The date of the establishment of the Mongaup Court House Station also changes on the sheet from 1908 to 1928. Authority for this change was obtained from the computations of triangulation for this area.

The end of the jetty and the two U.S.E. Engineers signals plotted on this sheet were plotted by the graphic method from good sextant cuts taken from the vessel.

July 5, 1929

Respectfully submitted

J.A. Church.

Sec. of Field Records. EAL

June 11, 1929.

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in
one (1) volumes of sounding records for

HYDROGRAPHIC SHEET 4885

Locality: Coast of Oregon, near Umpqua River.

Chief of Party: O. W. Swainson in 1928.
Plane of reference is mean lower low water, reading
*2.1 ft. on tide staff at Newport, Oregon.
~~ft. below B.M.~~
3.1 ft. ~~mmmx~~ on tide staff at Umpqua River Jetty
3.8 ft. on tide staff at Coos Bay C. G. Station, Coos Bay, Oregon.
*Allowance made for range of tide at place of sounding operations.

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:

Whitney

Chief, Division of Tides and Currents.

Section of Field Records

Sheet No 4886
Surveyed in 1928
Chief of Party - O.W. Swainson
Surveyed by - E. N. Bernstein
Protracted by - E. N. Bernstein
Soundings Plotted by - J. F. Foy
Verified and inked by - J.H. Church

1. The records conform to the requirements of the general instructions ✓
2. The plan and character of the development fulfil the requirements of the general instructions. ✓
3. The usual depth curves can be completely drawn. 2
4. The office draftsman did not have to do over any part of the work ✓
5 Remarks :-

The records were found to be complete and the plotting excellent.

June 18, 1929

Respectfully submitted
J.H. Church

FOR FIELD RECORDS SECTION FILES

E.a.L.

Division of Hydrography and Topography: June 7, 1928

Division of Charts:

Tide Reducers are approved in
One volume of sounding records for

HYDROGRAPHIC SHEET 4886

Locality: Pacific Coast, Coos Bay to Umpqua River, Oregon

Chief of Party: O. W. Sawinson in 1928
Plane of reference is mean lower low water, reading
3.[illegible] ft. on tide staff at Jetty, mouth of Umpqua River, Oregon
[illegible] ft. below B.M.
3.8 ft. on tide staff at Coos Bay C. O. Station, Coos Bay, Oregon

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:

Chief, Division of Tides and Currents.

Sec. of Field Records. ✓ June 17, 1929. EAR

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEET 4887

Locality: Coos Bay Bar, Oregon Coast.

Chief of Party: O. W. Swainson in 1928.
Plane of reference is mean lower low water, reading
3.1 ft. on tide staff at Umpqua River Jetty.
~~ft. below B. M.~~
3.8 ft. on tide staff at Coos Bay C. G. Station.

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

JULY-9-1929.

REPORT ON SHEET No. 4884

CHIEF OF PARTY - O.W. SWAINSON — SURVEYED BY {E.H. BERNSTEIN, J.A. BOND}

PROTRACTED BY - E.H. BERNSTEIN

VER & INKED BY - W.H. BAMFORD — SOUNDINGS PLOTTED BY - J.F. FAY

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~~ (see, letter)

4./ It was possible to completely draw the usual depth curves.

6./ The field plotting was completed to the extent prescribed in the General Instructions.

7./ The junctions with the adjacent sheets are satisfactory

8./ Siuslaw Inlet was erroneously marked Siuslaw River — this change was made by the office draftsman.

The protracting was excellent and the soundings were well penciled — the sheet was clean and soundings legible.

Respectfully submitted

Warren H Bamford

Section of Field Records

Report on sheet No. 4887

Survey in 1928 Instructions dated 3/3/28

Chief of Party - O. W. Swainson

Surveyed by - E. N. Bernstein

Protracted by - K. G. Crosby

Soundings plotted by - K. G. Crosby

Verified and inked by - J. B. Church

1. The records conform to the requirements of the general instructions.

2. The plan and character of the development fulfil the requirements of the general instructions.

3. The usual depth curves can not be completely drawn.

4. The field plotting was completed to the extent prescribed by general instructions.

5. The field draftsman replotted positions 3 a, 8 & 6 2 & c, 8 3 c, 2 5 e, 3 3 e, 4 0 e, 4 2 e 4 9 e and 5 0 e, and changed the day letter of positions 9 and 10 c which were erroneously designated 9 and 10 b.

Report H-4887 Cont'd

6 Remarks:-

This sheet has two signals, one a topographic and one a triangulation, designated by the same name (Red).

In each case that either of these signals were used for checking the plotting they were identified in the records by the proper symbol

July 23, 1929

Respectfully submitted

J.T.C. Leach

Section of Field Records

Report on sheet No. 4891

Surveyed in 1928 – Instructions dated 3/3/28
Chief of party – O. W. Swainson
Surveyed by – O.W. Swainson – E.H. Bernstein – H.A. Karo
Protracted by – L. G. Crosby
Soundings plotted by – L. G. Crosby
Verified and inked by – J.H. Church

1. The records conform to the requirements of the general instructions, except the bottom characteristics are not stated frequently enough to properly determine the limits of each type of bottom in the volume containing the fathometer work.

2. The plane and character of the development fulfil the requirements ~~of the special instructions~~ of the general instructions, except that the fathometer was used in shoaler depths than 15 fathoms

3. The usual depth curves can be completely drawn.

4. The field platting was completed to the extent prescribed by the General instructions.

5. The junction with H-4890 is satisfactory. This sheet does not overlap H-4887 but makes a junction with it at about the intertidal the sounding lines are spaced on H-4887. The junction is apparently satisfactory. There is a good

H-4891 Cont'd.

overlaps between this sheet and H-4812, in general the junction is good, but there is considerable variation between soundings in several instances.

6. The office draftsman did not have to do over any part of the drafting done by the field party except replot positions 24 and 25a, volume 1, 13 and 21A volume 2

7. Remarks:-

Respectfully submitted
Joseph H. C. Hurd
Sept. 28, 1929.

FOR FILES OF FIELD RECORDS SECTION

Division of Hydrography and Topography:

June 22,1929

Division of Charts:

Tide Reducers are approved in
volumes of sounding records for
3
HYDROGRAPHIC SHEET
4884
Locality:
Oregon Coast, off Siuslaw River
Chief of Party:
Plane of reference C. W. Swainson in 1928
ft; on tide staff at Mean lower low water, reading
2.1 ft below B. M. Newport

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.

June 28, 1929.

[redacted] Hydrography and Topography:

[redacted]

The soundings are approved in
[redacted] of sounding records for

HYDROGRAPHIC SHEET 4891

[redacted] Oregon Coast, off Cape Arago

Chief of Party: O. W. Swainson in 1928
Plane of reference is mean lower low water, reading
[redacted] on tide staff at Newport
[redacted] on tide staff at Coos Bay.

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:

[redacted]

Chief, Division of Tides and Currents.

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO No. 11-DRM

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

November 11, 1929.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4884

Tahkenitch Creek to Suislaw River, Oregon

Surveyed in 1928

Instructions dated March 3, 1928 (PIONEER); Director's letter of July 3, 1928

Chief of Party, O. W. Swainson.

Surveyed by E. H. Bernstein, J. A. Bond.

Protracted by E. H. B.

Soundings plotted by J. F. Ray.

Verified and inked by W. H. Bamford.

1. The records conform to the requirements of the Hydrographic Manual.

2. The plan, character and extent of the survey conform to the specific instructions with the following exceptions:

   a. In the vicinity of Suislaw Inlet, the work should have been extended to a junction with the latest Engineers survey. This would have obviated the need of using old information in a changeable area to fill in the gap between the late Engineers survey and our present survey. The field party effected a junction with the offshore limits of the hydrography shown on chart 6023, which contains information that dates back at least 20 years. While the depths at the junction are not in perfect agreement, the compiler will be able to make a satisfactory selection for charting purposes.

   b. At the southern end of the sheet there is too wide a gap between the first and second lines of soundings paralleling the shore.

3. The sounding line crossings are adequate.

4. The usual depth curves could be drawn except those close inshore. It is assumed that breakers prevented the carrying of

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO No. 11-DRM

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4885

Umpqua River to Tahkenitch Creek, Oregon

Surveyed in 1928

Instructions dated March 3, 1928 (PIONEER) and Director's letter of July 3, 1928

Chief of Party, O. W. Swainson.

Surveyed by E. H. Bernstein.

Protracted and soundings plotted by K. G. Crosby.

Verified and inked by J. H. Church.

1. The records conform to the requirements of the Hydrographic Manual.

2. The plan, character and extent of the survey conform to the specific instructions with the following exceptions:

   a. In the vicinity of Umpqua River, the work should have been extended to a junction with the latest Engineers survey. The field party carried the work to a junction with the limits of chart 6004, which chart is a compilation of the latest Engineers work, previous Engineers surveys and hydrographic sheet No. 4141 (surveyed in 1920). As the work now stands the compiler will have to utilize old information to fill the gap between the present survey and the latest Engineers Survey. The limits of the Engineers survey (Blueprint 22123) are sketched in pencil on the smooth sheet and the hiatus is readily discernible.

   b. Just north of the entrance to Umpqua River, the inshore lines are spaced too far apart. The diagonal system of lines in the upper half of the sheet should have been carried further inshore to give a more rigid determination of the 3-fathom curve.

3. The sounding line crossings are adequate.

the lines further inshore, although no mention of them is made in the records or in the descriptive report. This matter should be referred to the field party, as such information is of value on the charts. The parallel system of sounding lines as used on this survey crossed by a diagonal system gives a generally rigid determination of the depth curves, with a fair assurance that no long narrow ridges exist between the parallel lines.

5. The usual field plotting was completed by the field party and was very satisfactory.

6. The junction with H. 4881 on the north is satisfactory.

The junctions with the other contemporary surveys will be taken up when those sheets are reviewed.

No comparison was made with H. 1558 as this is but a reconnaissance survey in a changeable area.

7. The whistle buoy off Suislaw Inlet was located about 200 meters N x E of its charted position. The channel buoy off the inlet was not located by the hydrographic party, but it is shown on the topographic sheet.

8. No additional work is considered necessary at this time, although if work is done in this vicinity in the near future, consideration might be given the circumstance mentioned in paragraph 2--a above.

9. Reviewed by A. L. Shalowitz, July, 1929.

Approved:

J. M. Sobieralski
Chief, Section of Field Records (CHARTS)

T. S. Borden
Chief, Section of Field Work (H. & T.)

4. The usual depth curves could be drawn except those close inshore and a portion of the 10 fathom curve as mentioned below. It is assumed that breakers prevented the carrying of the work further inshore, although no mention is made of them in the records, nor in the descriptive report. This matter should be referred to the field party as such information is of value on the charts.

   The information at the southern half of the sheet is inadequate for properly drawing the 10 fathom curve, as the gap between this survey and the offshore sheet (H. 4890) is too great to give more than an approximate delineation of the curve.

5. The usual field plotting was completed by the field party and was adequate.

6. The junctions with H. 4886 and H. 4884 are satisfactory.

   The junction with the offshore sheet H. 4883 will be taken up in the review for that sheet.

   A comparison has been made with the unverified soundings of the offshore sheet H. 4890 for the purpose of getting additional information on the 9 1/4 fathom sounding (questioned by field party) obtained 140 meters north of the Whistle Buoy (positions 1-2b, H. 4885). The offshore sheet shows no indication of a shoaling in this vicinity and 17 fathoms was obtained close to the 9 1/4 fathom sounding on H. 4885. There are other discrepancies between the offshore sheet and the inshore sheet in this vicinity and it was therefore decided to omit the line 1 - 7 b. (Approved by A.M.S. See note in Vol.1, page 25.)

7. For filling in gaps between the Engineers survey and the new work, the compiler should use only such of the old work as is consistent with the new work.

8. If work is done in this locality in the near future, some additional lines should be run in the vicinity of the Whistle Buoy to determine whether any shoaling has taken place here and the work extended to overlap the work of the U.S.Engineers. The 10 fathom curve, as mentioned in paragraph 4 above, should also be better developed.

9. The 2 5/6 fathom sounding in Lat. 43° 45 1/4', Long. 124° 11'.4 has been accepted. It appears to be a fathom in error, but since it is close to the breakers it is not of great importance to navigation.

10. Reviewed by A. L. Shalowitz, July, 1929.

Approved:

A. M. Sobieralski
Chief, Section of Field Records (Charts)

J. S. Borden
Chief, Section of Field Work (H. & T.)

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO No. 11-DRM

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON November 11, 1929.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4886

Oregon Coast - Coos Bay to Ten Mile Creek

Surveyed in 1928

Instructions dated March 3, 1928 (PIONEER) and Director's letter of July 3, 1928

Chief of Party, O. W. Swainson.

Surveyed by E. H. Bernstein.

Protracted by E. H. B.

Soundings plotted by J. Fay.

Verified and inked by J. H. Church.

1. The records conform to the requirements of the Hydrographic Manual.

2. The plan, character and extent of the survey conform to the specific instructions. It is assumed that the launch could not approach the beach any nearer than the survey shows. However, no mention of this is made in the sounding records or descriptive report. If the field party has information as to breakers along this coast it would be valuable for charting purposes.

3. The usual depth curves could be drawn except those close inshore and the 10 fathom curve at the northern part of the sheet. The 10 fathom curve should have been definitely established on the entire length of this sheet.

4. The usual field plotting was completed by the field party and was very satisfactory.

5. The junction with H. 4885 on the north is satisfactory.

The junction with H. 4890 on the west and H. 4887 on the south will be taken up when those sheets are reviewed.

6. No additional work is necessary within the limits of this survey unless it is desirable to run closer in to the beach.

7. Reviewed by A. L. Shalowitz, July, 1929.

Approved:

A. M. Schwerdtfeger
Chief, Section of Field Records (Charts)

F. B. Gordon
Chief, Section of Field Work (H. & T.)

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO No. 11-DRM

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4887

Entrance to Coos Bay, Oregon

Surveyed in 1928

Instructions dated March 3, 1928 (PIONEER)

Hand Lead Soundings

Chief of Party, O. W. Swainson

Surveyed by E. H. Bernstein

Protracted and soundings plotted by K. G. Crosby

Verified and inked by J. H. Church

1. No particular cartographic problems are presented by this survey. A junction was effected with the Army Engineers survey of July 13, 1928 (B.P. 22129).

2. The inshore development, outside of the limits of the Army Engineers survey, appears sparse. This was doubtless due to the heavy swell prevailing. The area around Baltimore Rock is also incomplete. No definite information could be found in the office for its authority. It first appeared on Chart 637 in 1879 and it is mentioned in Davidsons Coast Pilot of the Pacific Coast (page 395) as having been located by the U. S. Coast Survey in 1861, and again in 1879. The only 1861 survey covering this area is H. 755 but no examination of the rock is shown. There is no 1879 survey in this locality. There is a possibility that the rock was reported in the form of a letter. As it would entail a considerable amount of time to run down such information, and since the present survey does not contradict its existence, nothing further was done. Aside from showing an 11-foot sounding over this rock, there exists very little information on the present chart of the surrounding depths and it is recommended that a complete examination be made of this area at an opportune time with a view to determining the least depth of water over this rock as well as to determine the offshore extent of the 10 fathom curve. The rock will of course be

retained on the charts for the present. It was transferred to the present survey from chart 5984, and is indicated in blue.

3. The junctions with the adjacent surveys are satisfactory.

4. Additional work will be required as mentioned above.

5. Reviewed by A. L. Shalowitz, December, 1929.

Approved:

A. M. Sobiesiaki
Chief, Section of Field Records (Charts)

H. B. Bodam
Chief, Section of Field Work (H. & T.)

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO No. 11-WSW

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON

August 29, 1930.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4891

Cape Orago, Southward, Oregon

Surveyed in 1928

Instructions dated March 3, 1928.

Chief of Party, O. W. Swainson.

Surveyed by O. W. Swainson, E. H. Bernstein, H. A. Karo.

Protracted and soundings plotted by K. G. Crosly.

Verified and inked by J. H. Church.

1. The records conform to the requirements of the Hydrographic Manual with the exception that an unnecessary amount of work was done by the field party in showing the shore details on on the hydrographic sheet. Very few bottom characteristics were noted in the Pioneer work and not a single bottom entered in the work of thw motor sailer.

2. The work conforms to the requirements of the specific instructions. Fathometer work was carried to depths shoaler than 15 fathoms. These were utilized on the smooth sheet whenever their omission would have meant leaving a considerable gap in the work. The work should have been carried closer inshore by a development of the 3 fathom curve. If this was impossible, due to breakers, this should have been noted in the records and it would seem that a system of zig zag lines along the inshore end of the work would have been of greater value in delineating the shoal depth curves than the present system of parallel lines.

3. The information was sufficient for drawing the usual depth curves, except the 10 fathom curve in the vicinity of Cape Orago and the 5 fathom curve from Five Mile Point south and from 1 mile south of Cape Orago to the northern limit of the sheet. None of the shoaler depths curves have been delineated. The 20 fathom curve can be definitely drawn by combining the information on this sheet with the offshore sheet except in the vicinity of Lat. 43° 10' where more soundings should have been taken to define the curve.

4. The usual field plotting was done by the field party and was satisfactory.

5. The sounding line crossings are excellent.

6. The junction with H. 4887 and H. 4890 on the north are adequate.

a. The junction with H. 4812 on the south is also adequate. The few differences are doubtless due to the irregularities in the bottom.

b. A comparison has been made with the offshore sheet H. 4217 (surveyed in 1922) and the agreement found to be very satisfactory. In general the differences between the two surveys do not exceed 1 fathom. There are numerous cases where the agreement is perfect and there are occassional differences of 2 fathoms. An adjustment has been made in the 20 fathom curve to conform to the soundings on both sheets.

7. Additional Work:

a. If work is contemplated in this vicinity in the future the following places should be given consideration.

b. Some additional lines in the north of Cape Orago with a view to completing the 10 fathom curve.

c. A development of the area around the 12 fathom spot of Lat. 43° 16', Long. 124° 25.2' for a distance of about .4 mile around. This sounding which is a headline sounding is substantiated by a 15 fathom fathometer sounding close by and a 13 fathom leadline sounding about 250 meters to the southeast. There is evidently a bank here and its full extent should be determined. About 650 meters to the southward of the 12 there is a 14 fathom sounding from H. 4217. This should be included in the examination.

d. The irregularity in the vicinity of Lat. 43° 14' Long. 124° 26' should be developed. If practicable the work should be extended further inshore, particularly from Five Mile Point southward with special reference to delineating the breaker line.

8. Note to Compiler:

a. Since most of the rocks along the shore fall well within the inshore limits of the hydrography, no attempt has been made to transfer these from the topographic sheets. Reference should be made to the latter for completion of the chart. Also the question of the correct location of the reef to the northwest of Cape Arogo has not been considered on the review of the topographic sheets for this locality.

b. There is a discrepancy between the positions of the Whistle Buoy on this sheet and that shown in H. 4812 surveyed a few months previous to the survey of H. 4812. The hydrographic location (Position 125 M.) of the buoy on H. 4812 (not plotted on sheet) agrees within 50 meters with the location on the present survey. ~~Bolts were located in the position~~

~~recommended to be used on the charts unless a latter determination has been obtained for the lighthouse Bureau or unless the buoy has an assigned position.~~ Position of buoy furnished by Lt. Ho B. must be charted. The present charted position (edition of August, 1929) shows the buoy about 180 meters to the southwest of the position on H. 4891 and about 100 meters to the southwest of the position on H. 4812.

9. Reviewed by A. L. Shalowitz, August, 1930.

Approved:

A. M. Sobieralski
Chief, Section of Field Records (CHARTS)

F. S. Borden
Chief, Section of Field Work (H. & T.)

Form 537

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

REG. NO. 4884

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. 4884

State Oregon

General locality ~~Southwest Oregon Coast~~ Siuslaw River

Locality Tahkenitch Creek to Siuslaw River
~~Off Siuslaw River~~

Scale 1 : 20,000 Date of survey Aug. 14 - Sept. 5, 1928

Vessel Launch WISDOM

Chief of Party O. W. Swainson

Surveyed by E. H. Bernstein - J. A. Bond

Protracted by E. H. Bernstein

Soundings penciled by J. F. Fay

Soundings in fathoms ~~feet~~

Plane of reference M. L. L. W.

Subdivision of wire dragged areas by

Inked by Warren H Bamford

Verified by Warren H Bamford.

Instructions dated March 3, 1928

Remarks:

U. S. GOVERNMENT PRINTING OFFICE

Form 537

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4885

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. 13

REGISTER NO. 4885

State Oregon

General locality ~~Southwest Oregon Coast~~ Near Umpqua River

Locality ~~Near Umpqua River~~ Umpqua River to Tahkenitch Creek

Scale 1 : 20,000 Date of survey Sept. 6 - Oct. 12, 1928

Vessel Launch WISDOM

Chief of Party O. W. Swainson

Surveyed by E. H. Bernstein

Protracted by K. G. Crosby

Soundings penciled by K. G. Crosby

Soundings in fathoms ~~feet~~

Plane of reference M. L. L. W.

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated March 3, 1928

Remarks:

U. S. GOVERNMENT PRINTING OFFICE

Form 537

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

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. 14

REGISTER NO. 4886

State Oregon

General locality ~~Southwest Oregon Coast~~ Coos Bay

Locality Coos Bay to Umpqua River

Scale 1 : 20,000 Date of survey Sept. 8 - Oct. 12, 1928

Vessel Launch WISDOM

Chief of Party O. W. Swainson

Surveyed by E. H. Bernstein

Protracted by E. H. Bernstein

Soundings penciled by J. F. Fay

Soundings in fathoms ~~feet~~

Plane of reference M. L. L. W.

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated March 3, 1928

Remarks:

U. S. GOVERNMENT PRINTING OFFICE

Form 537

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4887

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. 16

REGISTER NO. 4887

State Oregon

General locality ~~Southwest Oregon Coast~~ Cape Arago

Locality Coos Bay ~~Bar~~ Entrance

Scale 1 : 10,000 Date of survey Sept. 13 - Sept. 28 1928

Vessel Launch WISDOM

Chief of Party O. W. Swainson

Surveyed by E. H. Bernstein

Protracted by K. G. Crosby

Soundings penciled by K. G. Crosby

Soundings in fathoms ~~feet~~

Plane of reference M. L. L. W.

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated March 3, 1928

Remarks:

U. S. GOVERNMENT PRINTING OFFICE

Form 537

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4891

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. 17

REGISTER NO. 4891

State Oregon

General locality ~~Southwest Oregon Coast~~ Cape Arago

Locality Coquille Pt. to Coos Bay ~~South of Cape Arago~~

Scale 1 : 20,000 Date of survey Oct. 25 - Dec. 1, 1928

Vessel Steamer PIONEER - Launch WISDOM - Motorsailer

Chief of Party O. W. Swainson

Surveyed by O. W. Swainson - E. H. Bernstein - H. A. Karo

Protracted by K. G. Crosby

Soundings penciled by K. G. Crosby

Soundings in fathoms ~~feet~~

Plane of reference M. L. L. W.

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated March 3, 1928

Remarks:

U. S. GOVERNMENT PRINTING OFFICE

11-WSW

August 29, 1930.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4891

Cape Orago, Southward, Oregon

Surveyed in 1928

Instructions dated March 3, 1928.

Chief of Party, O. W. Swainson.

Surveyed by O. W. Swainson, E. H. Bernstein, H. A. Karo.

Protracted and soundings plotted by K. G. Crosly.

Verified and inked by J. H. Church.

1. The records conform to the requirements of the Hydrographic Manual with the exception that an unnecessary amount of work was done by the field party in showing the shore details on on the hydrographic sheet. Very few bottom characteristics were noted in the Pioneer work and not a single bottom entered in the work of thw motor sailer.

2. The work conforms to the requirements of the specific instructions. Fathometer work was carried to depths shoaler than 15 fathoms. These were utilized on the smooth sheet whenever their omission would have meant leaving a considerable gap in the work. The work should have been carried closer inshore by a development of the 3 fathom curve. It was impossible, due to breakers, this should have been noted in the records and it would seem that a system of zig zag lines along the inshore end of the work would have been of greater value in delineating the shoal depth curves than the present system of parallel lines.

3. The information was sufficient for drawing the usual depth curves, except the 10 fathom curve in the vicinity of Cape Orago and the 5 fathom curve from Five Mile Point south and from 1 mile south of Cape Orago to the northern limit of the sheet. None of the shoaler depths curves have been delineated. The 20 fathom curve can be definitely drawn by combining the information on this sheet with the *offshore sheet* except in the vicinity of Lat. 43° 10' where more soundings should have been taken to define the curve.

4. The usual field plotting was done by the field party and was satisfactory.

5. The sounding line crossings are excellent.

6. The junction with H. 4887 and H. 4890 on the north are adequate.

a. The junction with H. 4812 on the south is also adequate. The few differences are doubtless due to the irregularities in the bottom.

b. A comparison has been made with the offshore sheet H. 4217 (surveyed in 1922) and the agreement found to be very satisfactory. In general the differences between the two surveys do not exceed 1 fathom. There are numerous cases where the agreement is perfect and there are occassional differences of 2 fathoms. An adjustment has been made in the 20 fathom curve to conform to the soundings on both sheets.

7. Additional Work:

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d. The irregularity in the vicinity of Lat. 43° 14' Long. 124° 26' should be developed. If practicable the work should be extended further inshore, particularly from Five Mile Point southward with special reference to delineating the breaker line.

8. Note to Compiler:

a. Since most of the rocks along the shore fall well within the inshore limits of the hydrography, no attempt has been made to transfer these from the topographic sheets. Reference should be made to the latter for completion of the chart. Also the question of the correct location of the reef to the northwest of Cape Orago has not been considered on the review of the topographic sheets for this locality.

b. There is a discrepancy between the positions of the Whistle Buoy on this sheet and that shown in H. 4812 surveyed a few months previous to the survey of H. 4812. The hydrographic location (Position 125 M.) of the buoy on H. 4812 (not plotted on sheet) agrees within 50 meters with the location on the present survey. Bolts were located in the position

recommended to be used on the charts unless a latter determination has been obtained for the lighthouse Bureau or unless the buoy has an assigned position. The present charted position (edition of August, 1929) shows the buoy about 180 meters to the southwest of the position on H. 4891 and about 100 meters to the southwest of the position on H. 4812.

9. Reviewed by A. L. Shalowitz, August, 1930.

Approved:

Chief, Section of Field Records (CHARTS)

Chief, Section of Field Work (H. & T.)

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. 4884

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

Number of positions on sheet ..307..

Number of positions checked ..76..

Number of positions revised ..2..

Number of soundings recorded ..1534.

Number of soundings revised ..78..

Number of signals erroneously plotted or transferred ..0.....

Date: July 9-1929.

Cartographer: Warren H Bamford.

Applied to chart 5971 1953 PH Andros
H.4885 Add a few soundings at north border of
Recon'n. 6004 H.W.B. Oct. 1954