

4812

C. & G. SURVEY
L. & A.
DEC 8 1928
Acc. No.

Diag. Cht. No. 5802

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

State: OREGON

11-5613

DESCRIPTIVE REPORT.

Hydrographic Sheet No. 1 (Field) 4812

LOCALITY:

~~COAST OF OREGON~~
Coquille Pt.

COQUILLE RIVER Approaches

~~ENTRANCE~~

1928

CHIEF OF PARTY:

A. P. Ratti - H. & G. E.

4812

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC
SHEET NO.1 COQUILLE RIVER ENTRANCE, COAST OF OREGON.

DATE OF INSTRUCTIONS.

Instructions covering this survey were dated March 19, 1928.

SURVEY METHODS.

Soundings from the beach to a depth of 15 fathoms were obtained with a hand lead using for leadline Sampson mahogany tiller rope, size No.8; beyond 15 fathoms, soundings were obtained with the standard Coast Survey Hand sounding machine, using stranded wire.

Chartered gas launch Rogue was used on this survey. Soundings with the hand lead were taken amidships while launch was underway and soundings with the sounding machine were taken from the stern bringing the launch to a complete stop in each case to insure a vertical cast. Special effort was made to regulate the speed of the launch so as to obtain true up and down soundings with the hand lead.

COMPARISON WITH PREVIOUS SURVEYS.

In comparing this sheet with ^HT2264 the following was found: WASH ROCK is shown as three rocks on T2264 ; only one rock was found in this survey and that checked very closely with the most north-easterly one shown on T2264.

Breaks shown as C and D on T2264 were located and the least water found on each was 6 FEET at MLLW. These breaks checked very closely with the locations shown on T2264.

BREAK F was found correctly located with a least depth of 3 FEET at MLLW.

The least depth found on BREAK B was 57 FEET at MLLW. A least depth of 18 FEET was obtained between BREAK F and BREAK B and closest to BREAK F.

COQUILLE ROCK is correctly located and a least depth of 28 FEET at MLLW was found on it. The note that this rock "Never breaks, except in very heavy weather" was verified.

2 COQUILLE RIVER ENTRANCE.

In comparing this recent survey with the latest issue of chart 5971 the following was found:

WASH ROCK is incorrectly located; for true position see topographic sheet A (Field Number). T

The two breakers close together and to the westward of WASH ROCK were found. Mention was made of them in paragraph 2.

No evidence was found of the 16 Ft. reported shown on parallel 43-07. A sounding of 38 FEET at MLLW was found about 100 meters eastward of the 16 Ft. reported.

No evidence was found of the BREAKER shown about 130 meters northwestward of the 16 Ft. reported; however a least sounding of 28 FEET at MLLW was obtained about 200 yards eastward. Further note will be made of these shoal soundings later in this report.

The least depth found on breaker shown in Lat.43-07 (444 m) Long. 124-27 (1110m) was 122 FEET at MLLW. No indication of this breaker was ever seen during the course of this survey or when cruising about in this vicinity.

The breakers shown in Lat. 43-07 (684 m) Long. 124-27(20m) and Lat.43-07 (627m) Long. 124-27(75 m) are covered in paragraph 4 under this heading.

The two breakers shown in Lat.43-07 (1016m) Long 124-27(318m) and Lat. 43-07 (934m) Long. 124-27 (225m) were not found; however least soundings of 47 FEET at MLLW and 36 FEET at MLLW respectively were found about 100 yards eastward of each breaker. Further mention will be made of these soundings.

DANGERS.

✓ ~~334~~ COQUILLE ROCK, breaks only in very heavy weather. Least depth 28Feet at MLLW.

Lat. 43 07' 1691 meters.

Long. 124 27' 1057 "

Position number of least sounding is 147j, Vol. 4.

✓ ~~334~~ Least depth of 59 Feet at MLLW, rocky bottom ,

Lat. 43 08' 121 meters.

Long. 124 28' 241 "

Position number of least sounding is 77 $\frac{1}{2}$ k, Vol.4.

✓ ~~334~~ Least depth of 36 Feet at MLLW. rocky bottom,

Lat. 43 07' 957 meters.

Long. 124 27' 133 "

Position number of least sounding is 81d, Vol.2.

3. COQUILLE RIVER ENTRANCE.

✓ JTW Least depth of 3 Feet at MLLW, rocky bottom, breaks.
Lat. 43 07' 675 Meters.
Long. 124 27' 20 "
Position number of least sounding is 166 d, Vol. 2.

✓ JTW Least depth of 21 Feet at MLLW, rocky bottom,
Lat. 43 07' 434 Meters.
Long. 124 26' 1066 "
Position number of least sounding is 31j, Vol.4.

✓ JTW Least depth of 28 Feet at MLLW, rocky bottom,
Lat. 43 07' 102 Meters.
Long. 124 26' 1299 "
Position number of least sounding is 18m, Vol. 5.

✓ JTW Least depth of 6 Feet at MLLW, rock,
Lat. 43 06' 1817 Meters.
Long. 124 27' 959 "
Position number 36g. Vol.3.

✓ JTW Least depth of 6 Feet at MLLW rock,
Lat. 43 06' 1653 Meters.
Long. 124 27' 824 "
Position number 34g. Vol. 3.

✓ JTW Least depth of 2 Feet at MLLW, rock,
Lat. 43 06' 1620 Meters.
Long. 124 26' 760 "
Position number 55h. Vol.3.

CHANNEL.

The controlling depth on the entrance bar to Coquille River was found to be 12 Feet at MLLW.

EXTENT

This sheet covers the area shown on Chart 5971. It makes a junction with Reg. No. 4452 on the west and with Reg. No. 4487 on the south and with the U.S. Engineers Survey 1927.

LANDMARKS

All prominent landmarks are already shown on chart 5971; for their location see topographic sheet A (Field Number).

REDUCTION OF SOUNDINGS.

The reference plane for the reduction of soundings on this sheet is MLLW and the reading on the staff for this plane was taken as 3.42 Feet.

4. COQUILLE RIVER ENTRANCE.

LOCATION OF TIDE GAUGE

The tide gauge was located off the Coast Guard Station at Bandon, Oregon.

Reading on gauge for MLLW is 3.42
" " " " Highest Tide is 11.5
" " " " Lowest " " 1.0

All soundings on smooth sheet are expressed in FEET at MLLW.
All soundings on boat sheet are expressed in fathoms and are not reduced.

Tide reducers were taken directly from the marigrams of Bandon Tide Gauge using MLLW as 3.42 Feet.

Respectfully submitted,
Augustus P. Ratti
Chief of Party, U.S.C. & G.S.

STATISTICS SHEET NO.1 (Field Number)

Date 1928	Letter	Volume	Positions	Soundings	Miles Stat.	Vessel		
May 24	a	1	7	38	1.5	Chartered	Launch	Rogue
" 26	b	1	115	555	23.2	"	"	"
" 31	c	1	81	193	18.4	"	"	"
June 1	d	1 & 2	188	585	27.1	"	"	"
" 4	e	2	59	175	5.8	"	"	"
" 6	f	2	159	434	19.2	"	"	"
" 7	g	3	105	230	13.5	"	"	"
" 8	h	3	188	717	22.3	"	"	"
" 9	j	3 & 4	147	319	14.0	"	"	"
" 12	k	4	91	178	6.7	"	"	"
" 13	l	4 & 5	157	300	16.5	"	"	"
" 14	m	5	136	300	19.3	"	"	"
TOTAL			<u>1433</u>	<u>4024</u>	<u>187.5</u>			

Section of Field Records

Report on Sheet No. 4812

Chief of Party A.P. Ratti

Protracted by G.A. Nelson

Verified and Labeled by J.F. Walker

Surveyed in 1928

Surveyed by A.P. Ratti

Soundings plotted by

G.A. Nelson

The sounding records were complete and fairly neat except the first volume.

The protracting was exceptionally accurate, only six positions being found off.

The soundings were well plotted and the time intervals were carefully adhered to.

The sheet was clean and the work was legible.

The drafting conformed to General Instructions. Numerous rocks along the shore were not transferred to the smooth sheet. A tracing of the topo sheet was made of all the rocks and they were compared with the rocks on the smooth sheet. The rocks omitted were added and the others were checked for position. Numerous notes were added as to state of tide when rocks were awash.

The location of buoy C "CR" is from a fix Vol 5 p. 38.

From nos 33c to 45c the speeds were in excess of 10 knots. It was thought that this was due to drifting while stop soundings were being taken.

There was no overlap later than 1925.

Reviewed by

Date

Respectfully submitted
J.F. Walker

AND REFER TO No. 11-DEM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON April 6, 1929.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4812

Surveyed in 1928

Chief of Party, A. P. Ratti.

Instructions dated March 19, 1928.

Surveyed by A. P. Ratti.

Protracted and soundings plotted by G. A. Nelson.

Verified and inked by J. T. Walker.

1. The records 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 satisfy the specific instructions.
4. The sounding line crossings are adequate.
5. The usual depth curves can be drawn except close inshore where it was too rocky for sounding.
6. The field plotting was completed to the extent prescribed in the General Instructions.
7. The office draftsman did not have to do over any part of the drafting done by the field party. It was necessary though to transfer a number of rocks from the topographic sheet to the smooth sheet, with notes regarding the state of tide when the rocks were awash.
8. The junction with H. 4452 is good.
The junction and overlap with H. 4487 is good.
Blue print 22,000 of the U. S. Engineers dated May 4 to 12, 1928, covering Coquille River entrance, is superseded by this survey.

9. If too much expense is not involved it is believed that further development should be made in the area between Long. 124° 27' and 124° 28', Lat. 43° 07' and 43° 07' 30". In this area a submerged rock, over which the sea breaks in heavy weather, was reported in 1909 by the Hydrographic Office Notice to Mariners but was never placed on the chart.* (See letter 369 (1909), Westdahl, C. & G. S. N. to M. 30, 1909.) This rock was reported as being 2580 yards N. 66° 30' W. from the life saving lookout flagstaff on Coquille Point. The plotted position of this rock is Lat. 43° 07' 720 m., Long. 124° 27' 935 M. Around this point the development is not complete on this sheet.

and H.O.N. to M. 30, 1909.
This position does not agree with the one given in 6895 N to M 30 1909
HFS 7-7-54
** (see Standard No. 2 of chart 5971)*

It would also be well to make an additional search for the sunken rock at Lat. 43° 07', Long. 124° 27' 60 m. In 1903 this rock was reported by a ship drawing 13 feet of water -- see letter 314 (1903) Rodgers -- which struck it. The position was obtained by rough shore ranges so cannot be considered very reliable. It is quite probable that this rock will be found in the vicinity of the 28 ft. sounding, about 150 meters northeast of the reported position of the rock.

10. Remarks:

In making up a new chart the positions of Wash Rock and the two breakers about 1/4 miles northwestward should be taken from the new sheet as they vary slightly from the positions on the existing chart.

The three sunken rocks indicated on chart 5971, Long. 124° 27', Lat. 43° 07' 650 meters should be replaced by the 3 ft. sounding on this sheet.

It is recommended that the 16 ft. reported sunken rock, Lat. 43° 07', Long. 124° 27' 60 m. and the breaker 140 meters northwest of it be removed from the chart and replaced by a sunken rock symbol at the 28 ft. sounding which is 150 meters eastward of them. This 16 ft. reported rock (see letter 314 (1903) Rodgers) and the breaker northwest of it (see letter 369 (1909) Westdahl & C. & G. S. N. to M. 30 (1909) were both obtained from outside information and not by actual survey work. Neither of them could be located by our field party. It is considered probable, however, that shoaler water exists over the 28 foot spot.

It appears that the breaker at Lat. 43° 07' 444 m., Long. 124° 27' 1110 m. was erroneously plotted on the chart and it should have been plotted at Lat. 43° 07' 720 m., Long. 124° 27' 935 m.

No.
See above
HFS
7-7-54
Chart was
O.K.

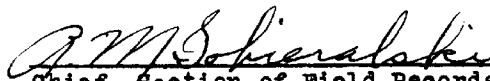
See letter 369 (1909) and C. & G. S. N. to M. 30 (1909) and H. O. N. to M. 30 (1909). No breaker was seen by our field party in the vicinity of the charted position of the breaker and the least depth at this point was 122 ft. It is recommended that this breaker be removed from the chart.

It is recommended that the two breakers in Lat. 43° 07' 1016 m., Long. 124° 27' 318 m. and Lat. 43° 07' 934 m., Long. 124° 27' 225 m. be removed from the chart and replaced by a sunken rock symbol at the 36 ft. sounding about 100 meters to the eastward. These breakers were originally obtained from outside information, (See H. O. N. to M. 30, 1909), and not by actual field work. Bearings and distances were given to them, but it is not known how the distances were obtained. It is considered probable that shoaler water exists in this vicinity.

The location of C "CR" buoy will be found on page 38 of Vol. 5 of sounding records.

11. (a) Character and scope of the surveying are good.
(b) Field drafting is good.
12. Reviewed by Earl O. Heaton, Jr. H. & G. E., March 18, 1929.

Approved:


Chief, Section of Field Records (Charts)


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

January 19, 1929.

E.A.L.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in
volumes of sounding records for

HYDROGRAPHIC SHEET **4812**

Locality: **GOQUILLE RIVER APPROACHES, COAST OF OREGON.**

Chief of Party: **A. P. Hatti in 1928**
Plane of reference is **Mean lower low water, reading**
5.2 ft. on tide staff at **London, 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 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.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

C. & G. SURVEY
L. & A.
DEC 8 1928
Acc. No.

HYDROGRAPHIC TITLE SHEET

REG. NO.
4812

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. 1

REGISTER NO. 4812

State Oregon

General locality ~~Pacific Coast~~ Coquille Pt.

Locality Coquille River Entrance Approaches

Scale 1-10000 Date of survey May to June, 1928.

Vessel Chartered Launch Rogue

Chief of Party Augustus P. Ratti

Surveyed by A. P. Ratti

Protracted by George A. Nelson

Soundings penciled by George A. Nelson

Soundings in ~~fathoms~~ feet

Plane of reference MLLW 3.42 feet above zero of staff. Bandon.

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated March 19, 1928.

Remarks: This sheet makes a junction with Sheet
Reg. No. 4452 & sheet 2 (Field)

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. 4812

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

Number of positions on sheet . 1433
Number of positions checked . 359
Number of positions revised . . . 6
Number of soundings recorded . 4024
Number of soundings revised . . 98
Number of signals erroneously
plotted or transferred 0

Date: March 8, 1929

Cartographer: J. Walker

Re applied to chart 5971 May 1953 ~~Adros~~

Agreed To Chit 140-4 11-28-60 RKD
Agreed To Chit 140-3 12-1-60 RKD

C