

FEB 4 1938

Acc. No. _____

6237

453

Form 504
Rev. April 1935
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. SK
Hydrographic }

State OREGON

LOCALITY

COLUMBIA RIVER

Scipanon River

1935

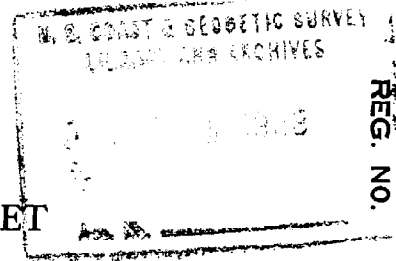
CHIEF OF PARTY

Robert W. Knox

6237

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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. SK

REGISTER NO. H 6237

State Oregon

General locality Columbia River

Locality Skipanon River

Scale 1:2,500 Date of survey Aug. 29-30, 1935, 19

Vessel Launch J372

Chief of Party Robert W. Knox

Surveyed by RWK

Protracted by KMcBean

Soundings penciled by K McB

Soundings in ~~fathoms~~ feet

Plane of reference mean lower low water

Subdivision of wire dragged areas by

Inked by W.A. Bruder

Verified by W.A. Bruder

Instructions dated February 26, 1935, 19

Remarks:

DESCRIPTIVE REPORT

TO ACCOMPANY HYDROGRAPHIC SHEET

SK

Scale 1:2,500

1935

COLUMBIA RIVER

OREGON

Instructions dated Feb. 26, 1935

Robert W. Knox, Chief of Party ✓

AREA, LIMITS, ETC. The hydrography of sheet SK covers the Skipanon River between the highway bridge at Warrenton and highway bridge (U. S. Highway 101) about a mile south. ✓

At the time the survey was made some improvements to this portion of the Skipanon River were contemplated, and this, along with the fact that the chief of party wished to provide the hydrographic party with a certain amount of training in large scale surveys, led to the selection of such a large scale for what proved to be a non-navigable waterway. ✓

SURVEY METHODS: Standard survey methods were used. ✓

COMPARISON WITH PREVIOUS SURVEYS: There were no previous surveys in this waterway. ✓

DISCREPANCIES: A number of discrepancies were noted in plotting the sheet, due to the narrow width of the river, loss of several signals, etc. These have been carefully and fully noted in the sounding volume. ✓

STATISTICS: Aug. 29, 1935 a day, 896 sdgs. 180 pos. 6.8 miles sdg. ✓
Aug. 30, 1935 b 252 73 0.8
1148 253 7.6

TIDAL NOTE: The soundings were reduced from data obtained from an automatic gage at Warrenton. ✓

APPROVAL OF CHIEF OF PARTY: Sheet SK is hereby approved. No additional work is considered necessary. ✓

Respectfully submitted:



Robert W. Knox,
H. & G. Eng'r,
Chief of Party.

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **H6237**

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

Number of positions on sheet <i>253</i>
Number of positions checked <i>150</i>
Number of positions revised <i>40</i>
Number of soundings recorded <i>1148</i>
Number of soundings revised <i>100</i>
Number of signals erroneously plotted or transferred <i>0</i>

Date: *March 24, 1938*

Verification by *Wallace A. Bruder*

Time: *25 hrs 0 min.* { *3 hrs inspection*
12 hrs ver. & ink.

Review by *W. J. A. Mc Cormick, April 1, 1938.*

Time: *7 hrs.*

HYDROGRAPHIC SURVEY NO. H6237

Smooth Sheet Yes

Boat Sheet Yes

Records; Sounding One Vols., Wire Drag Vols., Bomb Vols.

Descriptive Report Yes

Title Sheet Yes

List of Signals Vol.#1

Landmarks for Charts (Form 567) None

Statistics Yes

Approved by Chief of Party Yes

Recoverable Station Cards (Form 524) None

Special Chart for Lighthouse Service None
(Circular Nov.30, 1933)

Hydrography: Total Days 2 ; Last Date Aug 30, 1935

Remarks _____

Remarks

Decisions

	Remarks	Decisions
1	<i>For Title</i>	<i>USGB decision</i>
2		<i>see T-6484</i>
3	<i>For Title</i>	
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GEOGRAPHIC NAMES
 Survey No. **H6237**

Name on Survey	<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On Chart No. 6151</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On previous survey No.</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On U. S. Quadrangle Maps</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">From local information</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On local Maps</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">P. O. Guide or Map</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Rand McNally Atlas</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">U. S. Light List</div> </div>										
	A	B	C	D	E	F	G	H	K		
<u>Skipanon River</u>	✓										1
<u>Warrenton</u>	✓										2
<u>Oregon</u>	✓										3
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Names underlined in red approved											25
by <u>JHE</u> on <u>3/17/38</u>											26
											27

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT
~~PHOTOSTAT OF~~

} No. H-6237
 No. T-~~xxxx~~

{ received Feb. 4, 1938
 registered Feb. 15, 1938
 verified
 reviewed
 approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
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83			
88			
90			

RETURN TO

82	T. R. Reed
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✓

TIDE NOTE FOR HYDROGRAPHIC SHEET

February 28, 1938

Division of Hydrography and Topography:

✓ Division of Charts: Attention: Mr. E. P. Ellis

Plane of reference
~~Tide Reductions~~ approved in
1 volume of sounding records for

HYDROGRAPHIC SHEET 6237

Locality Skipanon River, Columbia River, Oregon

Chief of Party: R. W. Knox in 1935
Plane of reference is mean lower low water, reading
1.4 ft. on tide staff at Warrenton
11.9 ft. below B.M. 1

Height of mean high water above plane of reference is 7.7 feet.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.

Report on H-6237

VERIFIER'S REPORT

Chief of Party: Robert W. Knox
Projected by: K. Mc Bean
Verified and inked by W.A. Bruder

Surveyed in: July, 1935
Surveyed by: Robert W. Knox
Soundings plotted by K. Mc Bean

1. The records conform to the requirements of the General Instructions with the following exceptions:
 - a. The hour number as well as the minute and second should always be shown at the top of each page in the records. ✓
 - b. Only 3 bottom characteristics were taken during the 1148 soundings. ✓
It is recommended more should have been taken.
 - c. The notes could have been more legible. ✓
2. The sound depth curves can be drawn except where log rafts prevented sounding in several apparently deep areas. ✓
3. The field plotting was complete, showing very thorough thought in plotting every sounding. The field plotter's remarks in the records were excellent. ✓
One suggestion is never to break a definite shore line for position numbers. ✓
4. The field drafting was excellent. It is recommended the shoreline never be broken for position numbers. This correction was taken care of in the office. ✓
Another office correction was to sink the shoreline to within a millimeter of the station location. Never let a symbol obliterate important topography such as a pronounced point. ✓
5. There are no adjacent hydrographic sheets. ✓

6. Remarks:

- a. Soundings and positions between 45a and 49a are indefinite and as recommended to be rejected. Rejected.
- b. There is a jump of 5 minutes between position 48 and 49a which is probably due to the confusion accompanying 10 second interval sounding. ✓
- c. The use of names similar in sound or spelling in the same locality should be avoided. Examples are positions 125 and 126a where "TEA" was rounded for "KEY" and "TWO" for "NEW". ✓
- d. All estimated distances of positions to signal, were plotted on the smooth sheet as 1:10,000 scale. The verifier changed them (about 25) to 1:2500 scale before inking. ✓
- e. Two topographic signals inked on the smooth sheet by the field were without names. Located at:

$44^{\circ} 04' 42''$	$123^{\circ} 55' 21''$	Originate with T-6484 but had not been inked. Inking was done in office.
$44^{\circ} 04' 03''$	$123^{\circ} 55' 28''$	
$9^{\circ} 45.3'$	$55^{\circ} 15.9'$	

They were both probably taken from the penciled positions on the boat sheet, as they do not appear on T-6484. Only the southern station was used. This was given the name "N16" as per boat sheet and sounding records. The unused northern station remains unnamed.
- f. The 6 ft. curve below signal "ED", lat $9^{\circ} 45.3'$, was left penciled because of faulty hydrography in that locality. Curve completed.
- g. Capt. Ellis questions "Log Rafts" as being "Log Booms". "Rafts" probably correct.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6237 (1935) FIELD NO. SK

Skipanon River, Columbia River, Oregon
Surveyed in August 1935, Scale 1:2,500
Instructions dated Feb. 26, 1935.

Hand Lead Soundings.

3 Point fixes on shore signals.

Chief of Party - R. W. Knox
Surveyed by - R. W. Knox
Protracted by - K. McBean
Soundings plotted by - K. McBean
Verified and inked by - W. A. Bruder

1. Condition of Records

The records are neat and legible and conform to the requirements of the Hydrographic Manual except as follows:

- a. The geographic datum and the reference station were not noted on the sheet. They were added in the office.
- b. Position numbers and day letters were inked on the cover label and title page in a color different from that used in the records. This was corrected in the office.
- c. More bottom characteristics should have been obtained. Only three were taken on the entire survey.
- d. The hour of the day was entered in the records only where it changed. It should also be shown in its proper column at the top of each page.

The Descriptive Report is complete and satisfactorily covers all items of importance, except that it is desirable when so large a scale is used to make some statement regarding the precautions used to insure accurate results.

2. Compliance with Instructions for the Project.

The survey satisfies the instructions for the project.

3. Shoreline and Signals.

Shoreline and topographic signals originate with T-6484 (1935).

4. Sounding Line Crossings.

Sounding line crossings are, in general, satisfactory. Minor discrepancies are caused by displacements due to the large scale of the survey.

5. Depth Curves.

Depth curves may be satisfactorily drawn except in the areas obstructed by log rafts at the time of the survey.

6. Junctions with Contemporary Surveys.

There are no contemporary surveys adjoining the present survey. U. S. Engineers' surveys on the north stop approximately 300 meters from a junction with this survey.

7. Comparison with Prior Surveys.

No prior surveys have been made by this Bureau within the limits of the present survey.

8. Comparison with Chart 6151 (New Print dated September 15, 1937).

a. Hydrography.

No soundings are charted within the area of the present survey.

b. Aids to Navigation.

The charted position of Skipanon Rear Range Light (latitude $46^{\circ} 09.9'$, longitude $123^{\circ} 54.9'$) is in good agreement with the position shown on the survey.

9. Field Plotting.

The field plotting is satisfactory.

10. Additional Field Work Recommended.

As the Skipanon River is practically non-navigable no additional work is recommended. Attention is called, however, to paragraphs 4, 5 and 6, this review.

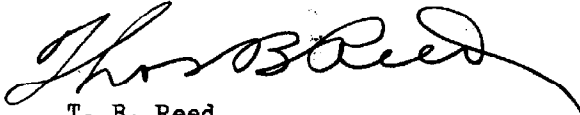
11. Superseding Old Surveys.

This bureau has made no previous surveys in this area.

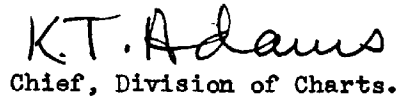
12. Reviewed by - J. A. McCormick, April 1, 1938.

Inspected by - A. L. Shalowitz.

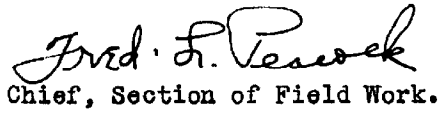
Examined and approved:



T. B. Reed,
Chief, Field Records Section



Chief, Division of Charts.



Chief, Section of Field Work.



Chief, Division of H. & T.

Applied to Chart Correction 6151 Sept. 2, 1938 H.E.M.