

# 10863

*Ques.*

Diag. Cht. No. 6157 Inset.

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	Shoreline
Field No.	Office No. T-10863
LOCALITY	
State	Oregon and Washington
General locality	Columbia River
Locality	Squally Hook Rapids
1959	
CHIEF OF PARTY	
Lorne G. Taylor, Photogrammetric Office	
LIBRARY & ARCHIVES	
DATE	May 1962

USCOMM-DC 5087

# 10863

DESCRIPTIVE REPORT - DATA RECORD

T - 10863

Project No. (II): Ph-5807      Quadrangle Name (IV):

Field Office (II): Arlington, Oregon

Chief of Party: Lorne G. Taylor

Unit Chief: K. W. Jeffers

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge: Lorne G. Taylor

Instructions dated (II) (III): Undated  
Field and Office

Copy filed in Division of  
Photogrammetry (IV)

Modification: Letter 73/rrj dated 9 March 1959  
Letter 831/es dated 12 March 1959  
Letter 732/rrj dated 21 May 1959

Method of Compilation (III): Kelsh Stereoscopic Instrument

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:6000

Viewing Scale

Scale Factor (III): None

Pantograph Scale

1:10,000

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 8/11/61

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Refer to datum pro-  
Vertical Datum (III): file on manuscript

Mean sea level except as follows:  
Elevations shown as (25) refer to ~~mean high water~~  
Elevations shown as (5) refer to ~~sounding datum~~  
i.e., ~~mean low water or mean lower low water~~

Normal gradient of Columbia River  
at 110,000 cfs

Reference Station (III): LUNA (USE) 1942  
(just north of manuscript limits)

Lat.: 45° 46' 43.990"

Long.: 120° 33' 26.848"

Adjusted    X  
Unadjusted

Plane Coordinates (IV):

State: Oregon

Zone: North

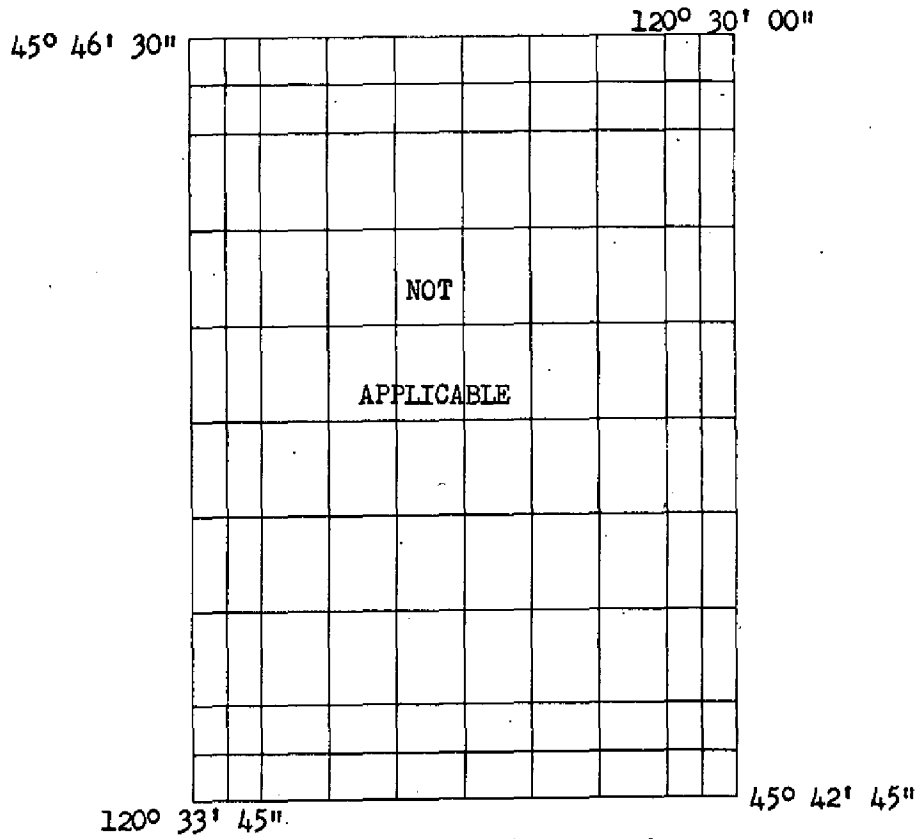
Y= 770,071.64

X= 1,985,339.66

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office,  
or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

DESCRIPTIVE REPORT - DATA RECORD



Areas contoured by various personnel  
(Show name within area)  
(II) (III)

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): C. H. Bishop (Shoreline) Date: 4 April 1959  
K. W. Jeffers (Interior) August 1959

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

~~Shoreline~~  
~~Mean-High Water~~ Location (III) (State date and method of location): Located by field inspection on 4-4-59 on single lens ratio prints taken 8-28-58 and delineated by Kelsh Stereoscopic Instrument on Models of same photography. The shoreline is the gradient of Lake Celilo Pool from 160.0 Ft. normal pool level at the forebay of The Dalles Dam and proceeding upstream at the pool gradient of 8-28-58, the date of photography.

Projection and Grids ruled by (IV): P. Dempsey Date: 5-12-59

Projection and Grids checked by (IV): Shoup Date: 5-14-59

Control plotted by (III): J. L. Harris Date: 7-21-59

Control checked by (III): J. E. Deal Date: 7-30-59

Radial Plot or Stereoscopic Control extension by (III): Robt. Fueschel Date: May 1959

Planimetry D. N. Williams Date: 9-9-59

Stereoscopic Instrument compilation (III): Contours Date:

Manuscript delineated by (III): W. V. Hull (Scribing) Date: 12-12-59  
D. N. Williams (Stick-up) 1-21-60

Photogrammetric Office Review by (III): J. L. Harris (Rough Draft) Date: 9-15-59  
J. E. Deal (Advance) 3-30-60

Elevations on Manuscript checked by (II) (III): Date:

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): U.S.C.&G.S. Single lens 58-S

Number	Date	PHOTOGRAPHS (III)		Scale	The Dalles Dam Pool Level (Forebay) Stage of Tide
		Time			
58-S7714A & 7715A	8-28-58			1:30,000 (contact)	159.76' above M.S.L.
		10:36		1:10,000 (ratio)	

Tide (III)

Reference Station:  
Subordinate Station:  
Subordinate Station:

Not Applicable

Ratio of Ranges	Mean Range	Spring Range

Washington Office Review by (IV):

*S. Stiefler*

Date: *May 1961*

Final Drafting by (IV):

*Portland Photogrammetric office*

Date: *Dec. 59 - March 60*

Drafting verified for reproduction by (IV):

*S. Stiefler*

Date: *May 1961*

Proof Edit by (IV):

*S. Stiefler*

Date: *July 1961*

Land Area (Sq. Statute Miles) (III): 12

Shoreline (More than 200 meters to opposite shore) (III): 6 statute miles

Shoreline (Less than 200 meters to opposite shore) (III): 1 " "

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 1 Recovered: 1 Identified: 1

Number of BMs searched for (II): None Recovered: Identified:

Number of Recoverable Photo Stations established (III): 10\*

Number of Temporary Photo Hydro Stations established (III): None

Remarks:

\* All fixed aids to navigation located by Kelsh Instrument.

3 Floating aids to navigation were located by Sextant Fix.

6

SUMMARY  
TO ACCOMPANY SHORELINE MAP MANUSCRIPTS  
T-10858 through T-10869

The twelve (12) subject surveys, extending from MILLER ISLAND eastward to the town of ARLINGTON, Oregon are part of project Ph-5807. The entire project consists of forty-nine (49) shoreline surveys which cover the Columbia River and adjacent land areas of Oregon and Washington from Bonneville eastward to Umatilla. It was designed to aid in the construction of a new series of nautical charts.

A stereoplanigraph bridging plot of the twelve subject surveys was done in the Washington Office in May 1959 (see separate report). They were compiled by Kelsh stereoscopic instruments in the Portland Photogrammetric Office during the latter part of 1959 from photography of August 1958 and field inspection information (shoreline, March-April 1959; interior, July-August 1959).

The completed compilations as submitted to the Washington Office are the result of adequately scribed sheets and suitable for the direct reproduction of registration copies.

A cronar film positive at the compilation scale of 1:40,000 and the Descriptive Report of each will be registered and filed in the Bureau Archives.

June 1961

## FIELD INSPECTION REPORT

Map Manuscript T-10863

Project Ph-5807

Refer to the Field Inspection Report for T-10859 thru T-10864  
which is included in the Descriptive Report for T-10859 (1959).

## PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10863

Project Ph-5807

Refer to the Photogrammetric Plot Report (Stereoplanigraph Bridge) for T-10858 thru T-10869 which is included in the Descriptive Report for T-10858 (1959).





## COMPILATION REPORT

Map Manuscript T-10863

Project Ph-5807

31. Delineation:

The Kelsh Stereoscopic Instrument was used to compile the planimetry.

Planimetry was compiled to the extent of the stereoplanigraph bridge and not for the entire area of the manuscript.

Refer to letter modifying the Instructions, 732/rrj, dated 21 May 1959.

Refer to the last paragraph under Item 37 in the Descriptive Report for T-10837 (1959), page 19.

32. Control:

Refer to remarks in the Descriptive Report for T-10858 (1959) and to the Photogrammetric Plot Report for T-10858 thru T-10869 which is included in the Descriptive Report for T-10858 (1959).

33. Supplemental Data:

None.

34. Contours and Drainage:

Contours are not applicable.

The drainage shown on the manuscript was delineated from field inspection notes supplemented by minute examination of the Kelsh models for drainage and by visual inspection of the U.S.G.S. topographic quadrangle, "Wasco" Oreg. - Wash., Scale 1:62,500, published 1957.

35. Shoreline and Alongshore Details:

Refer to remarks under this heading in the Descriptive Report for T-10853 (1959).

This manuscript covers the upstream limit of The Dalles Dam Reservoir. This limit is approximately river mile 224. The datum reference for the heights of rocks at shoreline gradient is continued thru manuscript T-10864 to the junction line between T-10864

and T-10865 (Longitude 120° 30'). East of this longitude the heights of rocks are referenced to the U.S.E. Low Water Profile. The shoreline gradients, on stick-up material, of Lake Celilo Pool and the normal river gradient (110,000 cfs) above the pool are shown on the manuscript.

36. Offshore Details:

Refer to remarks under this heading in the Descriptive Reports for T-10853 (1959) and T-10861 (1959). Remarks contained under Item 35 of this report are also applicable to offshore details.

37. Landmarks and Aids:

Form 567 was submitted to the Washington Office on 28 Sept. 1959 for nautical aids.

There are no aeronautical aids or landmarks within the limits of this manuscript.

38. Control for Future Surveys:

There were ten fixed aids to navigation located by Kelsh Instrument. These are listed under Item 49: Notes to the Hydrographer.

39. Junctions:

A satisfactory junction was made with T-10862 on the west, T-10864 on the south and a portion of T-10865 on the east. There are no contemporary surveys for most of the junction to the east and none to the north.

40. Horizontal and Vertical Accuracy:

Refer to the Descriptive Report for T-10837 (1959).

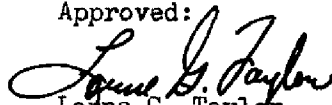
46. Comparison with Existing Maps:

Comparison was made with U.S.G.S. 15 minute Wasco, Oreg. - Wash., Scale 1:62,500, published 1957.

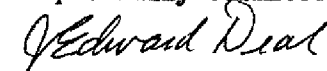
47. Comparison with Nautical Charts:

Refer to remarks under this heading in the Descriptive Report for T-10853 (1959).

Approved:

  
Loyne G. Taylor  
CDR, C&GS

Respectfully submitted:

  
J. Edward Deal  
Cartographer, C&GS

48. GEOGRAPHIC NAMES LIST

Columbia Hills  
\*Columbia River  
Columbia River Hwy.

Gilliam County  
Goodnoe

Klickitat County

Oregon

Spokane, Portland & Seattle R.R.  
Squally Hook Rapids

Union Pacific R.R.

Washington

\* B.G.N. Decision

*George M. Ball*  
GEOGRAPHIC NAMES SECTION  
16 MAY 1960

49. Notes to the Hydrographer:

Forms 567 were submitted listing the scaled geographic positions of ten fixed aids to navigation located by Kelsh instrument:

Mile 20-21 Range Front Light  
Mile 20-21 Range Rear Light  
Squally Hook Rapids Range 2 Front Light  
Squally Hook Rapids Range 2 Rear Light  
Squally Hook Rapids Range 3 Front Light  
Squally Hook Rapids Range 3 Rear Light  
Squally Hook Rapids Range 4 Front Light  
Squally Hook Rapids Range 4 Rear Light  
Squally Hook Rapids Range 5 Front Light  
Squally Hook Rapids Range 5 Rear Light

Also three floating aids to navigation were located by sextant fix:

Squally Hook Rapids Buoy 44  
Squally Hook Rapids Buoy 19  
Goodnoe Reef Buoy 21

### PHOTOGRAMMETRIC OFFICE REVIEW

T-10863

1. Projection and grids X 2. Title X 3. Manuscript numbers X 4. Manuscript size X

#### CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy X 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) X 7. Photo hydro stations None 8. Bench marks None 9. Plotting of sextant fixes X 10. Photogrammetric plot report X 11. Detail points X

#### ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline X 13. Low-water line None 14. Rocks, shoals, etc. X 15. Bridges None 16. Aids to navigation X 17. Landmarks None 18. Other alongshore physical features X 19. Other along-shore cultural features X

#### PHYSICAL FEATURES

20. Water features X 21. Natural ground cover X 22. Planetable contours None 23. Stereoscopic instrument contours None 24. Contours in general None 25. Spot elevations None 26. Other physical features None

#### CULTURAL FEATURES

27. Roads X 28. Buildings X 29. Railroads X 30. Other cultural features X

#### BOUNDARIES

31. Boundary lines X 32. Public land lines None

#### MISCELLANEOUS

33. Geographic names X 34. Junctions X 35. Legibility of the manuscript X 36. Discrepancy overlay X 37. Descriptive Report X 38. Field inspection photographs X 39. Forms X

40. \_\_\_\_\_  
Reviewer J. Edward Deal  
Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

#### FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

\_\_\_\_\_  
Compiler Supervisor

43. Remarks:

REVIEW REPORT OF  
SHORELINE MAP MANUSCRIPTS T-10858 THROUGH T-10869  
June 1961

62. Comparison with Registered Topographic Surveys:

There are no registered topographic surveys of this area.

63. Comparison with Maps of Other Agencies:

WISHRAM, ORE. -WASH.	1:62,500	1957	U.S.G.S.
WASCO, ORE.-WASH.	1:62,500	1957	U.S.G.S.
ARLINGTON, ORE.-WASH.	1:125,000	Ed. of 1916	U.S.G.S.

There is good agreement between effected subject surveys and the later Geological Survey Quads of 1:62,500. Arlington quadrangle of 1916 at 1:125,000 does not permit a detailed comparison because of scale difference.

64. Comparison with Contemporary Hydrographic Surveys:

There are no contemporary hydrographic surveys of subject area.

65. Comparison with Nautical Charts:

The first nautical charts of this portion of the Columbia River are being constructed now and incomplete compilations are not available for comparison at this time.

66. Adequacy of Results and Future Surveys:

T-10858 through T-10869 were compiled according to instructions. No deficiencies in accuracy or adequacy are indicated.

Reviewed by:

*Josef J. Streffler*  
Josef J. Streffler

Approved by:

*L. C. Lande*  
Chief, Review & Drafting Sec.  
Photogrammetry Division

*Marvin T. Hansen*  
Chief, Nautical Chart  
Division

*J. E. Waugh 5/4/62*  
Chief, Photogrammetry Division

*Max Skellett*  
Chief, Operations Division

