

# 10864

Quig.

Diag. Cht. No. 6157 Inset.

<b>Form 504</b> U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY  <b>DESCRIPTIVE REPORT</b>	
<i>Type of Survey</i> ..... Shoreline	
<i>Field No.</i> ..... <i>Office No.</i> T-10864	
<b>LOCALITY</b>	
<i>State</i> .....	Oregon and Washington
<i>General locality</i> .....	Columbia River
<i>Locality</i> .....	Quinton
<u>19.59</u>	
<b>CHIEF OF PARTY</b>	
Lorne G. Taylor, Photogrammetric Office	
<b>LIBRARY &amp; ARCHIVES</b>	
<b>DATE</b> .....	May 1962

USCOMM-DC 5087

# 10864

DESCRIPTIVE REPORT - DATA RECORD

T - 10864

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      Copy filed in Division of  
Field and Office      Photogrammetry (IV)  
Modification: Letter 72/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): 7/3/61

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 (2) 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): BARTLEMAY (USE) 1942

Lat.: 45° 42' 36.776"      Long.: 120° 32' 34.304"      Adjusted X  
Unadjusted

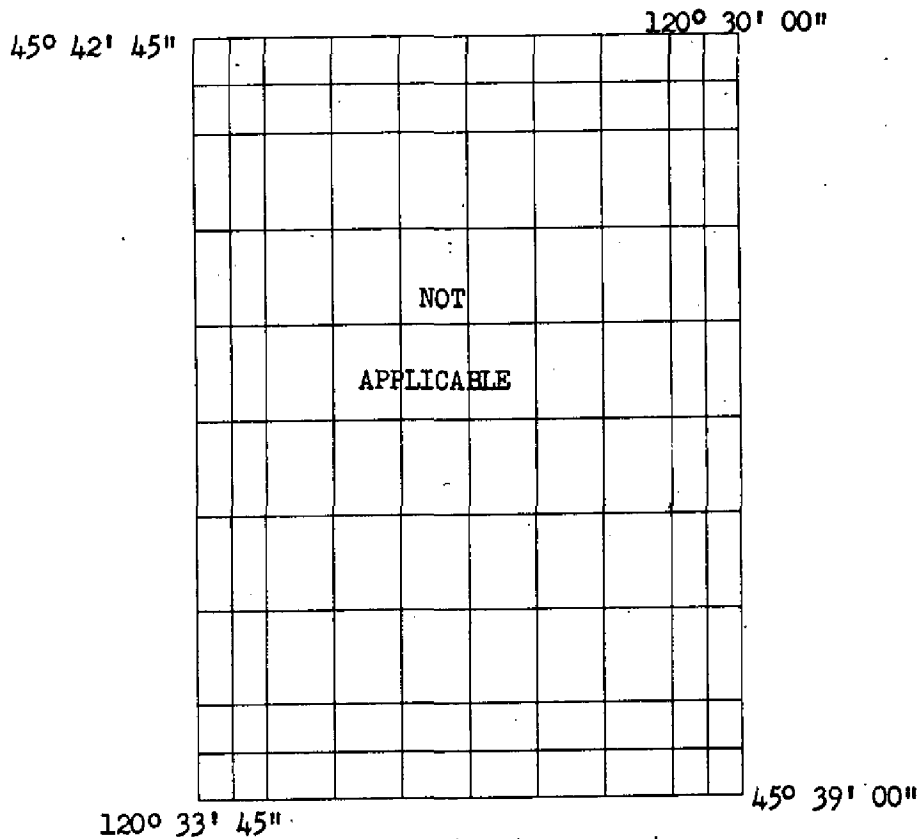
Plane Coordinates (IV):      State: Oregon      Zone: North

Y= 745,029.97      X= 1,989,050.43

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: 7 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 4-7-59 on single lens ratio prints taken 8-28-58 and delineated by Kelsh Stereoscopic Instrument on models of same photography. The shoreline is the normal gradient of the Columbia River at 110,000 cfs.

Projection and Grids ruled by (IV): P. Dempsey Date: 5-13-59

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

Control plotted by (III): J. L. Harris (Pass Points & U.S.E.) Date: 7-23-59

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

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

Stereoscopic Instrument compilation (III): Planimetry D. N. Williams Date: 9-10-59  
Contours Date:

Manuscript delineated by (III): W. V. Hull (Scribing) Date: 12-14-59  
D. N. Williams (Stick-up) 1-22-60

Photogrammetric Office Review by (III): J. L. Harris (Rough Draft) Date: 9-17-59  
J. E. Deal (Advance) 3-29-60

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

DESCRIPTIVE REPORT - DATA RECORD 5.

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

The Dalles Dam Pool  
Level (Forebay)  
Stage-of-Tide-

Number	Date	PHOTOGRAPHS (III) Time	Scale	Stage-of-Tide-
*58 S 7689A thru 7691A	8-28-58	10:17	1:30,000 contact 1:10,000 ratio	159.76' above MSL. Flow at Arlington Gage was 107,000 cf:
58 S 7712A and 7713A	"	10:35	DO	DO

\* Used for control identification only.

Tide (III)

Reference Station:  
Subordinate Station: Not applicable  
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

Washington Office Review by (IV):

*J. Streifer*

Date: *May 1961*

Final Drafting by (IV):

*Portland Photogrammetric office*

Date: *Dec. 59 - March 60*

Drafting verified for reproduction by (IV):

*J. Streifer*

Date: *May 1961*

Proof Edit by (IV):

*J. Streifer*

Date: *July 1961*

Land Area (Sq. Statute Miles) (III): 3\*\*

Shoreline (More than 200 meters to opposite shore) (III): 3 statute miles

Shoreline (Less than 200 meters to opposite shore) (III): None

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 2 Recovered: 2 Identified: 1

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

Number of Recoverable Photo Stations established (III): 2

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

Remarks:

\*\* 11 sq. miles was indicated on official mileage for cost accounts.

See Item 37:-Compilation Report

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-10864

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-10864

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).



U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY  
DESCRIPTIVE REPORT  
CONTROL RECORD

MAP T. 10864 PROJECT NO. Ph-5807 SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
BARTLEMEY (USE)	Oreg.N.	N.A.	745,029.97	29.97	(4970.03)		9.1	(1514.9)	
1942	Pg.72	1927	1,989,050.43	4050.43	( 949.57)		1234.6	( 289.4)	
DO	"	"	745,029.19	29.19	(4970.81)		8.9	(1515.1)	
Sub Station "A"			1,989,116.03	4116.03	( 883.97)		1254.6	( 269.4)	
DO			744,952.92	4952.92	( 47.08)		1509.7	( 14.3)	
Sub Station "B"			1,989,160.80	4160.80	( 839.20)		1268.2	( 255.8)	
FIELD 1941	Oreg.N.	"	736,826.88	1826.88	(3173.12)		556.8	( 967.2)	
	Pg.72		1,999,242.12	4242.12	( 757.88)		1293.0	( 231.0)	
									9.

## COMPILATION REPORT

Map Manuscript T-10864

Project Ph-5807

31. Delineation:

The Kelsh Stereoscopic Instrument was used to compile the planimetry.

The C&GS 1958 photography was adequate to compile the planimetry to the detail limits indicated on the project index.

A Stereoplanigraph Bridge was not made of the photograph flight 58 S 7688A thru 7692A which traversed the south portion of the manuscript.

An area extending south to approximately one mile interior from the south shore of the Columbia River was compiled and is believed adequate for charting needs.

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

Refer to 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:

The river area of this manuscript lies upstream from the upstream limit of The Dalles Dam Reservoir. This limit is at approximately river mile 224. The shoreline shown is at the normal river gradient of 110,000 cfs and a graph on stick-up material showing this gradient for any point of the river above the limit of the Lake Celilo Pool backwater has been applied to the manuscript.

Refer to correspondence included in the Descriptive Report for T-10837 (1959) for a detailed report on this feature.

36. Offshore Details:

Refer to remarks under this heading in the Descriptive report for T-10853 (1959) and T-10861 (1959).

For this manuscript the heights of rocks are referenced to the normal river gradient at 110,000 cfs. This datum reference is changed at the junction of T-10864 and T-10865 (Longitude 120° 30' 00"). East of this point and beginning with manuscript T-10865 the rock heights are referenced to U.S.E. Low Water Profile.

37. Landmarks and Aids:

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

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

38. Control for Future Surveys:

Two fixed aids to navigation were located by Kelsh Instrument. They are listed under Item 49: Notes to the Hydrographer.

39. Junctions:

A satisfactory junction was made with T-10863 on the north and T-10865 on the east. There are no contemporary surveys to the west and south.

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., quadrangle, 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:

  
Lorne G. Taylor  
CDR, C&GS

Respectfully submitted:

  
J. Edward Deal  
Cartographer, C&GS

48. GEOGRAPHIC NAMES LIST

\*Columbia River  
Columbia River Hwy.

Gilliam County

Klickitat County

Oregon

Quinton

Spokane, Portlnad & Seattle R.R.

Union Pacific R.R.

Washington

\* B.G.N. Decision

*George J. Bae*  
GEOGRAPHIC NAMES SECTION  
16 MAY 1960

49. Notes to the Hydrographer:

Form 567 was submitted listing the scaled geographic position of two fixed aids to navigation located by Kelsh Instrument:

- Mile 24 Range Front Light
- Mile 24 Range Rear Light

PHOTOGRAMMETRIC OFFICE REVIEW

T-10864

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 None 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 X

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 None 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:

*Joseph J. Streifler*  
Joseph J. Streifler

Approved by:

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

*Maurice Paulson*  
Chief, Nautical Chart  
Division

*J. E. Vaughn 5/9/62*  
Chief, Photogrammetry Division

*Max K. Kett*  
Chief, Operations Division



# NAUTICAL CHARTS BRANCH

SURVEY NO. T-10864

## Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
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M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.