

10867

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Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Office No. T-10867

LOCALITY

State Oregon and Washington

General locality Columbia River

Locality Blalock Rapids

1959

CHIEF OF PARTY

Lorne G. Taylor, Photogrammetric Office

LIBRARY & ARCHIVES

DATE May 1962

USCOMM-DC 5087

10867

DESCRIPTIVE REPORT - DATA RECORD

T - 10867

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 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

JUL 11 1961

Date received in Washington Office (IV): Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 7 June 1961

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): N.A. 1927 Vertical Datum (III): Refer to datum pro-
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~~
U. S. Engineers Columbia River
Low-Water Profile.

Reference Station (III): WOLLPERN (USE) 1942

Lat.: 45° 41' 29.623" Long.: 120° 29' 17.255" Adjusted X
Unadjusted

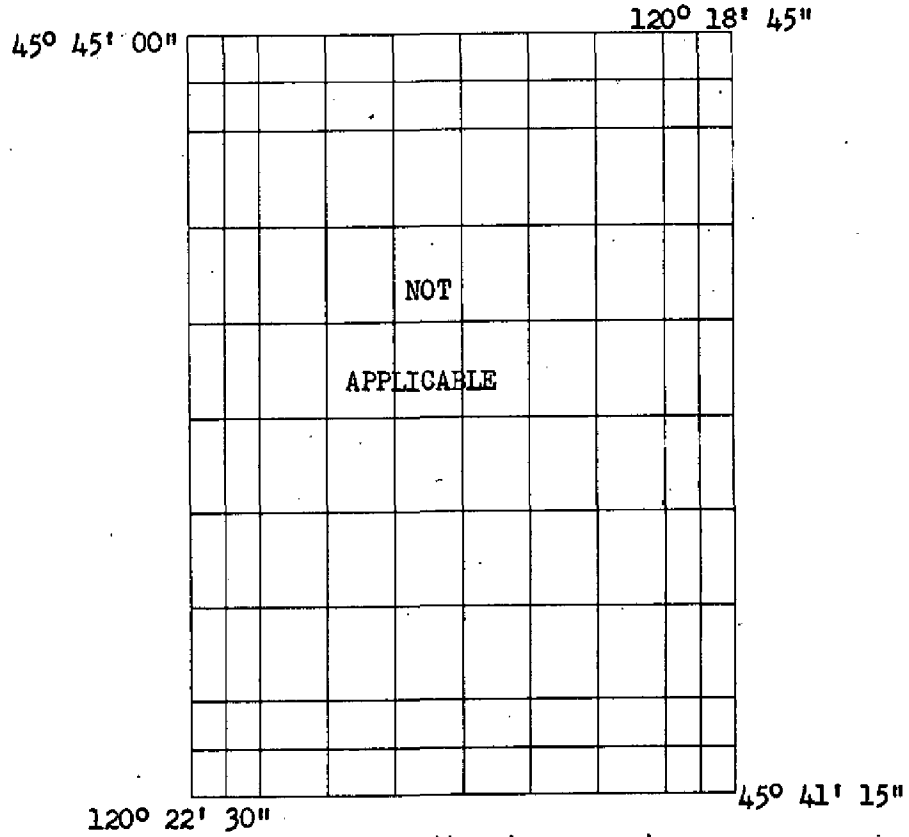
Plane Coordinates (IV): State: Oregon Zone: North

Y= 738,266.95 X= 2,041,365.79

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: 4-7-59
W. V. Hull (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: 5-14-59

Projection and Grids checked by (IV): Shoup Date:

Control plotted by (III): J. L. Harris (Pass Points & U.S.E.) Date: 7-27-59

Control checked by (III): J. E. Deal Date: 7-27-59

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

Stereoscopic Instrument compilation (III): Planimetry L. L. Graves Date: 9-18-59
Contours Date:

Manuscript delineated by (III): J. C. Lajoie (Scribing) Date: 12-16-59
C. C. Harris (Stick-up) 2-1-60

Photogrammetric Office Review by (III): J. L. Harris (Rough Draft) Date: 9-23-59
J. E. Deal (Advance) 3-30-60

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

DESCRIPTIVE REPORT - DATA RECORD

5.

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

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Number	Date	PHOTOGRAPHS (III)		Scale	The Dalles Dam Pool Level (Forebay) Stage of Rise
		Time			
58-S-7695A thru 7697A	8-28-58	10:20		1:30,000 contact 1:10,000 ratio	159.76' above MSL Flow at Arlington Gage was 107,000 cfs

Tide (III)

Reference Station: **Not Applicable.**
Subordinate Station:
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

Washington Office Review by (IV):

Streifler

Date: *May 1961*

Final Drafting by (IV):

Portland Photogrammetric Office

Date: *Dec. 59 - March 60*

Drafting verified for reproduction by (IV):

Streifler

Date: *May 1961*

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 11

Shoreline (More than 200 meters to opposite shore) (III): **6 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): **4***

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

Remarks:

* 2 were fixed aids to navigation located by Kelsh Instrument.
1 was floating aid to navigation located by sextant fix.

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 crownar 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-10867

Project Ph-5807

Refer to Field Inspection Report for T-10865 thru T-10869
which is included in the Descriptive Report for T-10865 (1959).

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10867

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-10867

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.

Refer to last paragraph under this heading 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 visual inspection of the U.S.G.S. topographic quadrangle, "Arlington", Oreg. - Wash., Scale 1:125,000 published 1947, reprinted 1948.

35. Shoreline and Alongshore Details:

The shoreline shown on this map manuscript is at the normal river gradient of 110,000 cfs flow. A graph showing this gradient from which the elevation of the shoreline may be determined for any place along the river is shown on 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 contained in the Descriptive Report for T-10865 (1959).

37. Landmarks and Aids:

Forms 567 were submitted to Washington 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 and two other structures were located by Kelsh Instrument. They are listed under Item 49, Notes to the Hydrographer.

39. Junctions:

A satisfactory junction was made on the west with T-10866 and on the east with T-10868. There are no contemporary surveys to the north and south.

40. Horizontal and Vertical Control:

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

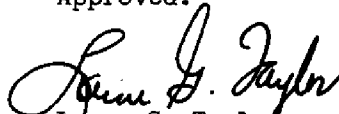
46. Comparison with Existing Maps:

Comparison was made with U.S.G.S. 30 minute "Arlington", Oreg.-Wash. quadrangle, Scale 1:125,000, edited 1916, reprinted 1948.

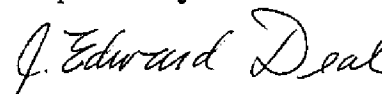
47. Comparison with Nautical Charts:

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

Approved:


Lorne G. Taylor
CDR, C&GS
Officer-in-Charge

Respectfully submitted:


J. Edward Deal
Cartographer
C&GS

48. GEOGRAPHIC NAMES LIST

Blalock
Blalock Canyon
Blalock Rapids

Chapman Creek
*Columbia River
Columbia River Hwy.

Gilliam County

Klickitat County

Oregon

Spokane, Portland & Seattle R.R.
Sundale

Union Pacific R.R.

Washington

* B.G.N. Decision

George M. Bass
Geographic Names Section
16 May 1960

49. Notes to the Hydrographer:

Forms 567 were submitted listing the scaled geographic positions of two fixed aids to navigation which were located by Kelsh Instrument:

- Four O'clock Rapids Range 1 Front Light, 1959
- Four O'clock Rapids Range 1 Rear Light, 1959

Two other structures shown on the manuscript were located by Kelsh Instrument:

- North Gable Elevator at Blalock, 1959
- Shed on Hill, 1959

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PHOTOGRAMMETRIC OFFICE REVIEW

T-10867

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 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 X 37. Descriptive Report X 38. Field inspection photographs X 39. Forms X

40. _____ J. Edward Deal
Reviewer 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.

Complier 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	1959	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. Streifler
Josef J. Streifler

Approved by:

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

Marvin Paulson
Chief, Nautical Chart
Division

J. E. Waugh 5/9/62
Chief, Photogrammetry Division

Max Skellett
Chief, Operations Division

