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69801

Form 504 U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY DESCRIPTIVE REPORT	
Type of Survey	Shoreline
Field No.	Office No. T-10869
LOCALITY	
State	Oregon and Washington
General locality	Columbia River
Locality	Arlington
<u>19 59</u>	
CHIEF OF PARTY	
Lorne G. Taylor, Photogrammetric Office	
LIBRARY & ARCHIVES	
DATE	

DESCRIPTIVE REPORT - DATA RECORD

T - 10869

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):

7 June 1961

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

U. S. Engineers Columbia River
Low-Water Profile.

Reference Station (III): There are no triangulation stations within
area of manuscript. Refer to T-10871.

Lat.:

Long.:

Adjusted
Unadjusted

Plane Coordinates (IV):

State:

Zone:

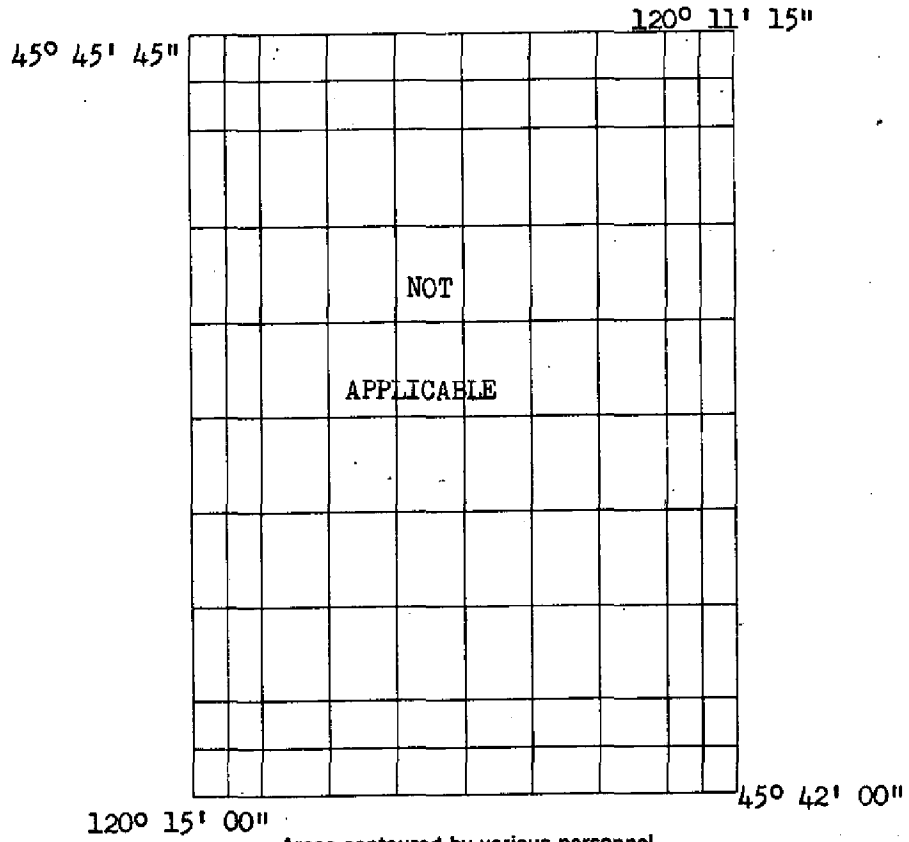
Y=

X=

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 Date: 9 April 1959
K. W. Jeffers 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 4-9-59 on single lens ratio prints taken 8-28-58 and delineated by Kelsh Stereoscopic Instrument on this 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) Date: 7-27-59

Control checked by (III): J. E. Deal Date: 7-28-59

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

Stereoscopic Instrument compilation (III): Planimetry D. N. Williams Date: 9-24-59

Contours None Date:

Manuscript delineated by (III): W. V. Hull (Scribing) Date: 12-17-59
L. L. Graves (Stick-up) 1-27-60

Photogrammetric Office Review by (III): J. L. Harris (Rough Draft) Date: 9-25-59
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. Single lens 58-S

The Dalles Dam, Lake
Celilo Pool (Forebay)
Stage-of-Tide

Number	Date	Time	Scale	Stage-of-Tide
* 58 S 7644A thru 7646A	8-28-58	9:35	1:30,000 contact 1:10,000 ratio	159.8' above MSL. Flow at Arlington Gage was 107,000 cfs.
58 S 7700A & 7701A	"	10:22	DO	DO

* Used for field inspection only.

Tide (III)

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

Ratio of Ranges	Mean Range	Spring Range

Washington Office Review by (IV):

W. Stiefler

Date:

May 1961

Final Drafting by (IV):

Portland Photogrammetric Office

Date:

Dec. 59 - March 60

Drafting verified for reproduction by (IV):

W. Stiefler

Date:

May 1961

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 12
 Shoreline (More than 200 meters to opposite shore) (III): 7 statute miles
 Shoreline (Less than 200 meters to opposite shore) (III): 0.5 " "
 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): 11 ***
 Number of Temporary Photo Hydro Stations established (III): None

Remarks:

** North of Manuscript Limits.

*** 9 were fixed aids to navigation and 2 were landmark structures, all located by Kelsh Instrument.

3 floating aids to navigation (buoys) were located by sextant fix.

6

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

The twelve (12) subject surveys, extending from **KELLED 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 master film positive at the compilation scale of 1:20,000 and the Descriptive Report of each will be registered and filed in the Bureau Archives.

June 1961

FIELD INSPECTION REPORT

Map Manuscript T-10869

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-10869

Project Ph-5807

Refer to the Photogrammetric Plot Report (Stereoplanigraph Bridge) T-10859 thru T-10869 which is included in the Descriptive Report for T-10859 (1959).

COMPILATION REPORT

Map Manuscript T-10869

Project Ph-5807

31. Delineation:

The Kelsh Stereoscopic Instrument was used to compile the planimetry.

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

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

32. Control:

Refer to the Photogrammetric Plot Report (Stereoplanigraph Bridge) for T-10859 thru T-10869 which is included in the Descriptive Report for T-10859 (1959).

33. Supplemental Data:

Blue line print "City of Arlington", Gilliam County, Oregon, Scale 1" = 600'.

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, "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 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-10865 (1959).

37. Landmarks and Aids:

Forms 567 for nautical aids and for landmarks for charts were submitted to the Washington Office on 30 Sept. 1959. There are no aeronautical aids. Refer to correspondence in the Descriptive Report for T-10837 (1959) for other details on nautical aids.

38. Control for Future Surveys:

Nine 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 with T-10868 on the west and portions of T-10870 and T-10871 on the east. There are no contemporary surveys to the north and south.

40. Horizontal and Vertical Accuracy:

Refer to remarks under this item in the Descriptive Report for T-10837 (1959).

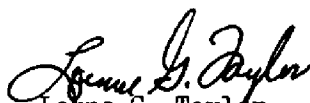
46. Comparison with Existing Maps:

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

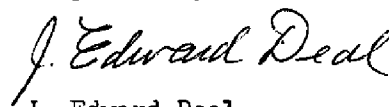
47. Comparison with Nautical Charts:

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

Arlington

*Columbia River
Columbia River Hwy.

Gilliam County

Klickitat County

Oregon
Owyhee Rapids

Roosevelt

Spokane, Portland & Seattle R.R.

Union Pacific R.R.

Washington
Wood Gulch

* B.G.N. Decision

George M. Bae
GEOGRAPHIC NAMES SECTION
16 MAY 1960

49. Notes to the Hydrographer:

Forms 567 were submitted listing the scaled geographic positions of nautical aids and landmarks:

Owyhee Rapids Range 1 Rear Light
Goose Island Range 1 Front Light
Goose Island Range 1 Rear Light
Owyhee Rapids Range 2 Front Light
Owyhee Rapids Range 2 Rear Light
Arlington Range Front Light
Arlington Range Rear Light
Island No. 30 Range 2 Front Light
Island No. 30 Range 2 Rear Light

Owyhee Rapids Buoy 22
Owyhee Rapids Buoy 24
Owyhee Rapids Buoy 26

Light on top of grain elevator
North of U. P. tracks at Arlington, Oregon

Northwest corner of house on top
of grain elevator at Roosevelt, Washington

PHOTOGRAMMETRIC OFFICE REVIEW

T-10869

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

PHYSICAL FEATURES

20. Water features X 21. Natural ground cover None 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 None 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.

Compiler Supervisor

43. Remarks:

NAUTICAL CHARTS BRANCH
REVIEW REPORT OF
SHORELINE MAP MANUSCRIPTS T-10858 THROUGH T-10869
JUNE 1960. T-10869

Record of Application to Charts
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:

Joseph J. Streffler
Joseph J. Streffler

Approved by:

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

Martin T. Paulson
Martin T. Paulson
Chief, Nautical Chart
Division

J. E. Waugh 5/19/62
J. E. Waugh 5/19/62
Chief, Photogrammetry Division

Max B. Ricketts
Max B. Ricketts
Chief, Operations Division

