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<p>Form 504</p> <p>U. S. DEPARTMENT OF COMMERCE</p> <p>COAST AND GEODETIC SURVEY</p> <p>DESCRIPTIVE REPORT</p>	
<p>Type of Survey <u>Shoreline</u></p>	
<p>Field No. _____ Office No. <u>T-10885</u></p>	
<p>LOCALITY</p>	
<p>State <u>Oregon & Washington</u></p>	
<p>General locality <u>Columbia River</u></p>	
<p>Locality <u>Devils Bend Rapids</u></p>	
<p><u>19 59</u></p>	
<p>CHIEF OF PARTY</p>	
<p><u>Lorne G. Taylor, Photogrammetric Office</u></p>	
<p>LIBRARY & ARCHIVES</p>	
<p>DATE _____</p>	

DESCRIPTIVE REPORT - DATA RECORD

T - 10885

Project No. (II): Ph-5807

Quadrangle Name (IV):

Field Office (II): Umatilla, Oregon

Chief of Party: Lorne G. Taylor

Photogrammetric Office (III): Portland, Oregon

Unit Chief: K. W. Jeffers

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):

15 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-

Reference Station (III): HAWK (USE) 1942

Lat.: 45° 53' 29.467"

Long.: 119° 24' 46.303"

Adjusted X
Unadjusted

Plane Coordinates (IV):

State: Oregon

Zone: North

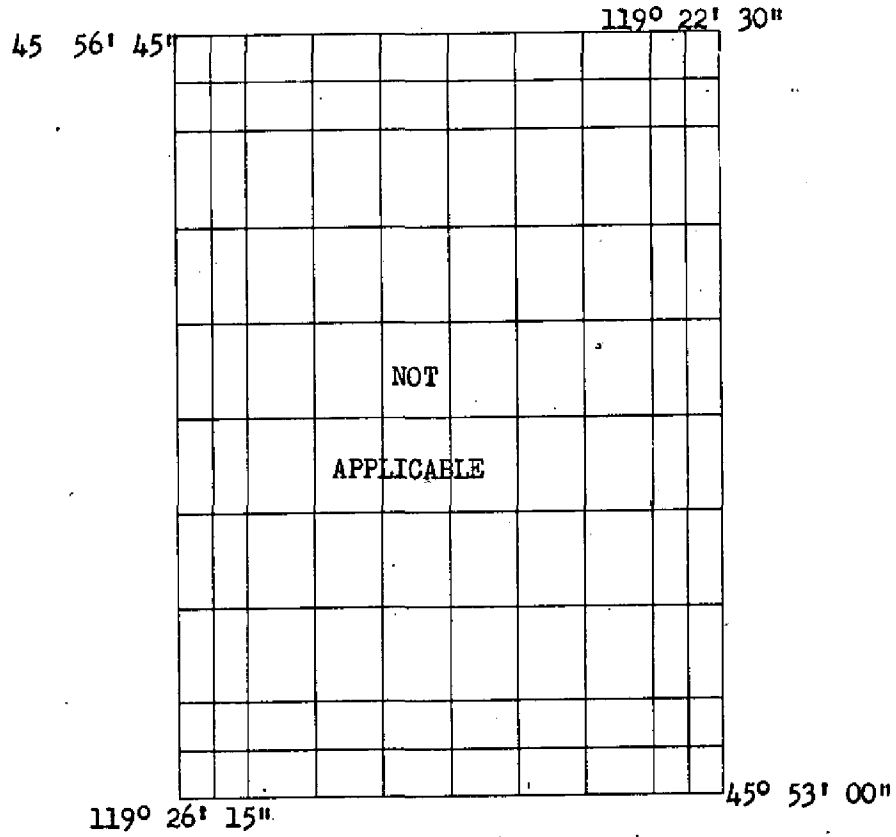
Y= 812,999.52

X= 2,276,822.09

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: 4-16-59
K. W. Jeffers (Shoreline) 9-30-59
K. W. Jeffers (Interior) Sept.-Oct. 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 4-16 and 9-30-59 on single lens ratio prints taken 8-28-58 and delineated by Kelsh Stereoscopic Instrument on this photography. The shoreline in the normal gradient of the Columbia River at 110,000 cfs.

Projection and Grids ruled by (IV): P. Dempsey Date: 7-29-59

Projection and Grids checked by (IV): Shoup Date: 8-3-59

Control plotted by (III): J. L. Harris (Pass Points) Date: 9-11-59

Control checked by (III): C. C. Harris Date: 10-6-59

Radial Plot or Stereoscopic Control extension by (III): John D. Perrow, Jr. Date: June 1959

Stereoscopic Instrument compilation (III):
Planimetry D. N. Williams Date: 10-13-59
Contours None Date:

Manuscript delineated by (III): L. L. Graves (Scribing) Date: 2-9-60
C. C. Harris (Stick-up) 3-18-60

Photogrammetric Office Review by (III): J. L. Harris (Rough Draft) Date: 11-24-59
J. E. Deal (Advance) 3-31-60

Elevations on Manuscript checked by (II) (III): None 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 Stage of Tide (Forebay)
		Time			
58-S-7600A & 7601A	8-28-58	9:04		1:30,000 contact 1:10,000 ratio	159.8' above M.S.L. Flow at Arlington Gage and Paterson Gage was 107,000 cfs.

Tide (III)

Reference Station:
Subordinate Station: Not applicable
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

Washington Office Review by (IV): *J. Streifler*
Final Drafting by (IV): *Portland Photod. Office*
Drafting verified for reproduction by (IV): *J. Streifler*
Proof Edit by (IV): *J. Streifler*

Date: *Febr. 1961*
Date: *Feb. - March 1960*
Date: *Febr. 1961*
Date: *June 1961*

Land Area (Sq. Statute Miles) (III): 10
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): 7 * Recovered: 7 * Identified: 2
Number of BMs searched for (II): None Recovered: Identified:
Number of Recoverable Photo Stations established (III): 7
Number of Temporary Photo Hydro Stations established (III): None

Remarks:
* 4 were east of project limits.

SUMMARY
to accompany Shoreline Map Manuscripts
T-10870 through T-10885

The sixteen (16) subject surveys represent the eastern portion of project Ph-5807. The project consists of forty-nine (49) shoreline surveys of the Columbia River (Ore.-Wash.) from Bonneville eastward to Umatilla and was designed to aid in the construction of a new series of nautical charts. T-10870 thru T-10885 extend from Arlington to Umatilla, which are covered by a stereoplanigraph bridging plot done in the Washington Office in June 1959.

The map manuscripts were compiled by Kelsh stereoscopic instruments in the Portland Photogrammetric Office from photography of August 1958 and field inspection information (shoreline - April 59, interior - September 59).

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 crown 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.

May 1961

FIELD INSPECTION REPORT

Map Manuscript T-10885

Project Ph-5807

Refer to Field Inspection Report for T-10882 thru T-10885
which is included in the Descriptive Report for T-10882 (1959).

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10885

Project Ph-5807

Refer to the Photogrammetric Plot Report (Stereoplanigraph Bridge) for T-10870 thru T-10885 which is included in the Descriptive Report for T-10870 (1959).

MAP T. 10885 PROJECT NO. Ph-5807 SCALE OF MAP 1:19,000 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)	(BACK)		FORWARD IN METERS	(BACK)	
TRANS (USE) 1942 (WASH)	Oreg.N. Pg.76	N.A. 1927	829,324.30 2,299,099.56	4324.30 (675.70) 4099.56 (900.44)			1318.0 (206.0) 1249.5 (274.5)		
DO Sub Station "A"	"	"	829,147.94 2,298,934.57	4147.94 (852.06) 3934.57 (1065.43)			1264.3 (259.7) 1199.3 (324.7)	<i>part of project</i>	
DO Sub Station "B"	"	"	829,322.95 2,299,005.07	4322.95 (677.05) 4005.07 (994.93)			1317.6 (206.4) 1220.7 (303.3)		
UMATILLA (USE) 1942	Oreg.N.	"	819,125.62 2,293,095.82	4125.62 (874.38) 3095.82 (1904.18)			1257.5 (266.5) 943.6 (580.4)		
DO Sub Station "A"	"	"	819,169.47 2,293,145.15	4169.47 (830.53) 3145.15 (1854.85)			1270.9 (253.1) 958.6 (565.4)		
HAWK (USE) 1942	Oreg.N. Pg.74	"	812,999.52 2,276,822.09	2999.52 (2000.48) 1822.09 (3177.91)			914.3 (609.7) 555.4 (968.6)		
MESA (USE) 1942 (WASH)	" Pg.74	"	830,165.76 2,271,192.55	165.76 (4834.24) 1192.55 (3807.45)			50.5 (1473.5) 363.5 (1160.5)		
									9.

COMPILATION REPORT

Map Manuscript T-10885

Project Ph-5807

31. Delineation:

The Kelsh Stereoscopic Instrument was used to compile the planimetry.

The C&GS photography of 8-28-58 was adequate to compile the planimetry to the detail limits indicated on the project index.

Refer to last paragraph Item 31, Delineation of the Descriptive Report for T-10837 (1959).

32. Control:

Refer to the Photogrammetric Plot Report (Stereoplanigraph Bridge) T-10870 thru T-10885 which is included in the Descriptive Report for T-10870 (1959).

33. Supplemental Data:

Refer to County Maps of Morrow County, Oregon and Umatilla County, Oregon for county boundary.

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 "Umatilla", Oreg. - Wash., Scale 1:125,000, published 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 under this heading in the Descriptive Report for T-10865 (1959).

37. Landmarks and Aids:

Forms 567 were submitted to Washington on 1 December 1959 for three fixed aids to navigation, seven floating aids to navigation and one aeronautical aid. There are no landmarks within the limits of the manuscript.

38. Control for Future Surveys:

In addition to the aids to navigation listed under Item 37 there were three structures located by Kelsh Instrument as recoverable topographic stations. All are listed under Item 49, Notes to the Hydrographer.

39. Junctions:

A satisfactory junction was made with T-10884 on the west. On the east this project junctions with Project Ph-63. A satisfactory junction was made with T-10426 and T-10430 of this project. There are no contemporary surveys to the north and south.

40. Horizontal and Vertical Control:

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 "Umatilla", Oreg. - Wash. quadrangle, Scale 1:125,000, published 1906.

47. Comparison with Nautical Charts:

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

Approved:

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

Respectfully submitted:

J. Edward Deal
J. Edward Deal
Cartographer
C&GS

48. GEOGRAPHIC NAMES LIST

Benton County

*Columbia River

Devils Bend Rapids

Morrow County

Oregon

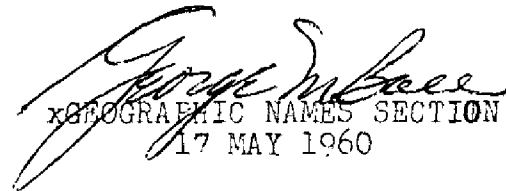
Spokane, Portland & Seattle

Umatilla County

Union Pacific

Washington

* B.G.N. Decision


GEOGRAPHIC NAMES SECTION
17 MAY 1960

49. Notes to the Hydrographer:

Three structures were located by Kelsh Instrument principally for the use of the U. S. Coast Guard for future sextant locations of floating aids;

EAST GABLE 1959; SOUTH GABLE 1959; WEST GABLE 1959

Forms 567 listing the scaled geographic positions of three fixed aids to navigation, seven floating aids to navigation and one aeronautical aid were submitted to Washington:

Devils Bend Range 1 Rear Light
Umatilla River Shoals Range Front Light
Umatilla River Shoals Range Rear Light

Devils Bend Rapids Buoy 34
Devils Bend Rapids Buoy 36
Devils Bend Rapids Buoy 38
Devils Bend Rapids Buoy 40
Devils Bend Rapids Buoy 42
Devils Bend Rapids Buoy 44
Devils Bend Rapids Buoy 46

Lighted Radio Tower East of Patterson, Washington

PHOTOGRAMMETRIC OFFICE REVIEW

T. 10885

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

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

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

BOUNDARIES

- 31. Boundary lines
- 32. Public land lines None

MISCELLANEOUS

- 33. Geographic names
- 34. Junctions
- 35. Legibility of the manuscript
- 36. Discrepancy overlay None
- 37. Descriptive Report
- 38. Field inspection photographs
- 39. Forms

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-10870 through T-10885
May 1961

62. Comparison with Registered Topographic Surveys:

There are no registered topographic surveys of this area.

63. Comparison with Maps of Other Agencies:

ARLINGTON, ORE.-WASH. 1:125,000, 1916, U.S. Geological Survey
BLALOCK IS., ORE.-WASH. 1:125,000, 1906, U.S. Geological Survey
UMATILLA, ORE.-WASH. 1:125,000, 1908, U.S. Geological Survey

Because of scale difference a detailed comparison is impractical.

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. Incomplete compilations are not available for comparison.

66. Adequacy of Results and Future Surveys:

T-10870 through T-10885 have been compiled according to instructions and meet the adequacy and accuracy requirements for this type of survey.

Reviewed by:

Josef J. Streffler
Josef J. Streffler

Approved by:

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

Mervin T. Carlson
Chief, Nautical Chart Division

J. E. Waugh 5/4/62
Chief, Photogrammetry Div.

G. L. Mast 6/19/62
Chief, Operations Division

NAUTICAL CHARTS BRANCH

SURVEY NO. T-10885

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
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

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.