

orig.  
10839

# 10839

Diag. Cht. No. 6157.

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	SHORELINE
Field No.	Office No. T-10839
LOCALITY	
State	Oregon - Washington
	Columbia River
General locality	Bonneville Dam Pool
Locality	Government Cove
1959	
CHIEF OF PARTY	
Lorne G. Taylor - Photogrammetric Office	
LIBRARY & ARCHIVES	
DATE	

USCOMM-DC 5087

DESCRIPTIVE REPORT - DATA RECORD

T - 10839

Project No. (II): Ph-5807

Quadrangle Name (IV):

Field Office (II): Hood River, Oregon

Chief of Party: Lorne G. Taylor

Charles H. Bishop, Unit Chief

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge: Lorne G. Taylor

Instructions dated (II) (III): Undated

Copy filed in Division of  
Photogrammetry (IV)

Field and Office

Modification: Letter 73/rrj dated 9 March 1959

Letter 83les dated 12 March 1959

Method of Compilation (III): Kelsh Stereoscopic Instrument

Viewing Scale

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:6000 & 1:4800

Pantograph Scale

Scale Factor (III): None

1:10,000

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

10/5/61

Publication Scale (IV):

Publication date (IV):

Refer to datum pro-

Geographic Datum (III): N.A. 1927

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.

From 72.0 ft. above M.S.L. at Bonneville Dam forebay and upstream at the gradient of the Bonneville Pool as of the date of photography 30 Aug. 1958.

Reference Station (III): ANDER, 1957

Lat.: 45° 41' 51.593"

Long.: 121° 49' 02.016"

Adjusted X  
Unadjusted

Plane Coordinates (IV):

State: Oregon

Zone: North

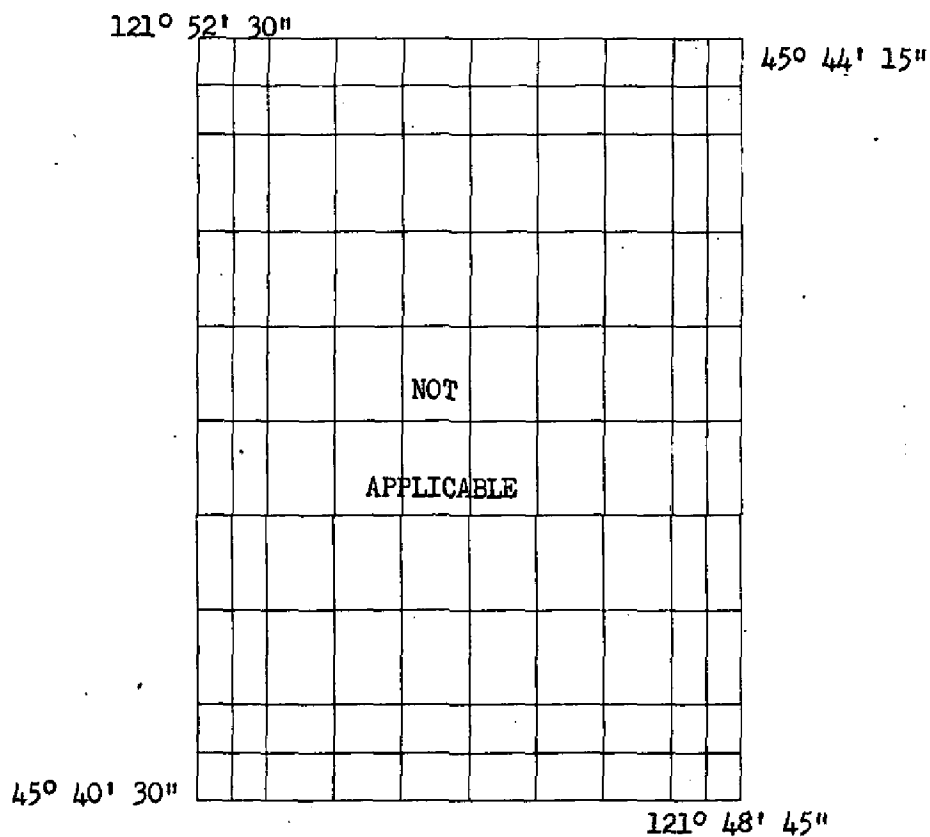
Y= 743,194.43

X= 1,663,441.89

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): R. B. Melby

Date: March 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 2-6-59 on single lens ratio prints taken 8-30-58 and delineated by Kelsh Stereoscopic Instrument on this photography supplemented by models of U.S.E. photography taken on 7-22-57. The shoreline is the gradient of Bonneville Dam Pool from 72.0 ft. normal pool level at the forebay and proceeding upstream at the pool gradient of 30 Aug. 1958 the date of photography.

Projection and Grids ruled by (IV): P. J. D.

Date: 12-20-58

Projection and Grids checked by (IV): Shoup

Date: 12-23-58

Control plotted by (III): L. L. Graves

Date: 2-26-59  
3-5-59

Control checked by (III): J. E. Deal

Date: 3-3-59  
3-10-59

Radial Plot or Stereoscopic Control extension by (III): George Ball

Date: 2-11-59

Planimetry D. N. Williams

Date: 3-31-59

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III): J. L. Harris (Scribing)  
C. C. Harris (Stick-up)

Date: 4-30-59  
5-18-59

Photogrammetric Office Review by (III): J. L. Harris

Date: 5-24-59

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

Date:

-5-  
DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

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

Number	Date	PHOTOGRAPHS (III)		Scale	Bonneville Dam
		Time			Pool Level Stage of Tide (forebay)
58-S-7882A thru 7884A	8-30-58	10:21		1:30,000(contact) 1:10,000(ratio)	73.6 ft. Above M.S.I
U. S. Engineers 57-4331 thru 4333	7-22-57	13:46		1:24,000(contact)	73.7 ft. above M.S.I
Bonneville Power Administration 2-10 & 2-11	7-3-52	13:35		1:42,000(contact)*	not applicable

\*Used only for interior detail compilation

Tide (III)

Reference Station:

Subordinate Station:

Subordinate Station:

Not applicable

Ratio of Ranges	Mean Range	Spring Range

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Date:

Date:

Date:

Date:

Land Area (Sq. Statute Miles) (III): 6

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): 22

Recovered: 15

Identified: 1

Number of BMs searched for (II): None

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): 1

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

Remarks:

6

SUMMARY  
TO ACCOMPANY SHORELINE MAP MANUSCRIPTS  
T-10837 through T-10846

The ten (10) subject map manuscripts represent the westernmost shoreline surveys of project FH-5807. The project covers the Columbia River and adjacent land areas of Oregon and Washington from Bonneville Dam eastward to the vicinity of McNary Dam. It was designed to aid in the revision of existing nautical charts and in the construction of new ones from the Dalles upstream to Umatilla. T-10837 through T-10846 extend from Bonneville eastward to Rowland Lake.

A stereoplanigraph bridging plot of subject surveys was done in the Washington Office in February 1959 (see pages 13 through 16 of Descriptive Report T-10837). The map manuscripts were compiled by stereoscopic instrument (Kelsh Plotter) in the Portland Photogrammetric Office from March to July 1959 from photography of August 1958 (plus U.S. Engineers' photography of July 1957 and Bonneville Power Administration photography of July 1952) and results of field inspection of February to April 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 1:10,000 and the Descriptive Report of each will be registered and filed in the Bureau Archives.

August 1961

## FIELD INSPECTION REPORT

Map Manuscript T-10839

Project Ph-5807

The report on the field inspection for this manuscript is part of a combined field inspection report for T-10837 thru T-10839. It is included in the descriptive report for T-10837 (1959) pages 7 thru 12.

## PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10838

Project Ph-5807

Refer to the "Photogrammetric Plot Report, Columbia River Project Ph-5807 (Stereoplanigraph Bridge)" Map Manuscripts T-10837 thru T-10845. This report is included in the descriptive report for T-10837, pages 13 thru 16.



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

MAP T-10839

PROJECT NO. Ph-5807

SCALE OF MAP 1:10,000

SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\psi$ -COORDINATE LONGITUDE OR $\chi$ -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
ANDER, 1957	Oreg.N P-275	N.A. 1927	743,194.43 1,663,441.89	3194.43 3441.89	(1805.57) (1558.11)		973.7 1049.1	(550.3) (474.9)	
DITTO		"	743,194.87	3194.87	(1805.13)		973.8	(550.2)	
Sub Pt "A"		"	1,663,368.99	3368.99	(1631.01)		1026.9	(497.1)	
DITTO		"	743,162.32	3162.32	(1837.68)		963.9	(560.1)	
Sub Pt "B"		"	1,663,319.02	3319.02	(1680.98)		1011.6	(512.4)	
CRETEGNY 1939	Oreg.N P-37	"	750,782.25	782.25	(4217.75)		238.4	(1285.6)	
			1,664,376.96	4376.96	(623.04)		1334.1	(189.9)	
END 1901	Oreg.N P-27	"	740,587.36	587.36	(4412.64)		179.0	(1345.0)	
			1,655,986.08	986.08	(4013.92)		300.6	(1223.4)	
FLUME (USE) 1939	" P-27	"	746,700.48	1700.48	(3299.52)		518.3	(1005.7)	
			1,658,385.06	3385.06	(1614.94)		1031.8	(492.2)	
HERMAN 1957	" P-275	"	736,691.85	1691.85	(3308.15)		515.7	(1008.3)	
			1,657,265.16	2265.16	(2734.84)		690.4	(833.6)	
Iron pipe on	"	"	746,415	1415.0	(3585.0)		431.3	(1092.7)	
Property Line 1939	P-37	"	1,657,260	2260.0	(2740.0)		688.8	(835.2)	
LOGHRY 1957	" P-277	"	745,277.03	277.03	(4722.97)		84.4	(1439.6)	
			1,651,040.972	1040.97	(3959.03)		317.3	(1206.7)	
OAKS 1957	" P-277	"	748,563.077	3563.08	(1436.92)		1086.0	(438.0)	
			1,658,318.177	3318.18	(1681.82)		1011.4	(512.6)	
PARK 2 1957	" P-275	"	742,692.69	2692.69	(2307.31)		820.7	(703.3)	
			1,660,012.02	12.02	(4987.98)		3.7	(1520.3)	
PARK 1939	" P-27	"	742,702.81	2702.81	(2297.19)		823.8	(700.2)	
			1,659,969.51	4969.51	(30.49)		1514.7	(9.3)	

1 FT. = 3048006 METER

COMPUTED BY: J.E.D.

DATE 12-4-58

CHECKED BY: J.L.H.

DATE 12-5-58

COMM-DC-57843

9

MAP T-10839

PROJECT NO. Ph-5807

SCALE OF MAP  
1:10,000

None

[illegible]

1 FT. = 3048006 METER

**L.L.C.**

DATE \_\_\_\_\_

checked by  
K.W.J.

LEO

COMM-DC-57843

## COMPILATION REPORT

Map Manuscript T-10839

Project Ph-5807

31. Delineation:

The Kelsh Stereoscopic Instrument was used to compile the planimetry.

The remarks relative to photography contained under this heading in the descriptive report for T-10837 are also applicable to this manuscript.

Also refer to the last paragraph under this heading in the descriptive report for T-10837.

32. Control:

Refer to the Photogrammetric Plot Report (Stereoplanigraph Bridge) T-10837 thru T-10845 and to an appendix to this report submitted by the Portland Photogrammetric Office. These are included as part of the descriptive report for T-10837 (1959) pages 13 thru 17.

33. Supplemental Data:

The limits of Lang Forest Wayside were delineated from a plan furnished by the Oregon State Highway Commission showing state owned lands along U. S. Highway 30. This plan is inadequate for accurate delineation and the limits shown on the manuscript merely represent an outline of the area.

34 thru 37:

Facts relative to the subjects of Items 34 thru 37 are identical with those described under these paragraphs in the descriptive report for T-10837.

38. Control for Future Surveys:

Form 524 is submitted for the gaging station at Stevenson, Washington.

There are no aids to navigation within the limits of this manuscript. There is a sufficient number of triangulation stations available to meet horizontal control requirements for future surveys.

39. Junctions:

Satisfactory junctions have been made on the east with T-10837 and on the west with T-10840. There are no contemporary surveys adjoining to the north and south of this manuscript.

40. Horizontal and Vertical Accuracy:

Vertical Accuracy is not applicable.

There are no areas on this manuscript that are considered to be of sub-normal horizontal accuracy.

46. Comparison with Existing Maps:

Comparison was made with U.S.G.S. 30 minute Hood River - Washington - Oregon quadrangle, scale 1:125,000. The shoreline features of this quadrangle are obsolete since it was compiled before the flooding of Bonneville Dam Pool.

47. Comparison with Nautical Charts:

Comparison was made with nautical chart #6157, scale 1:40,000, 3rd Edition July 14, 1958, hand corrected 9-6-58.

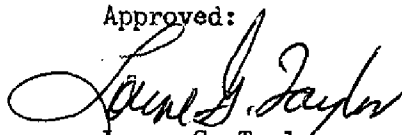
Items to be applied to the nautical chart immediately:

Item 12 of the Field Inspection Report "Other Interior Features" states that the cable crossing shown on Chart 6157 at Lat. 45° 41' 15" and Long. 121° 50' 25" across Government Cove has been removed. This feature should be deleted from the chart.

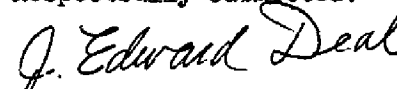
"Items to be Carried Forward"

None

Approved:

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

Respectfully submitted:

  
J. Edward Deal  
Cartographer  
C&GS

48. Geographic Names:

Carson  
Carson Creek  
Columbia River  
Columbia River Highway  
Farley Siding  
Government Cove  
Herman Creek  
Hood River County  
Lang Forest Wayside  
Lewis & Clark Highway  
Nelson Creek  
Oregon  
Skamania County  
Spokane, Portland & Seattle RR  
Trotter Point  
Union Pacific RR  
Washington

  
Geographic Names Section  
6 July 1961

10839

PHOTOGRAMMETRIC OFFICE REVIEW

T- 10859

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 X 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 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 X

MISCELLANEOUS

33. Geographic names X 34. Junctions X 35. Legibility of the manuscript X 36. Discrepancy overlay None 37. Descriptive Report None 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:

10

REVIEW REPORT  
of  
SHORELINE MAP MANUSCRIPTS  
T-10837 through T-10846  
August 1961

62. Comparison with Registered Topographic Surveys

A small portion of T-8607 (1948) of adjoining project PH-17 overlaps into T-10838. There are some discrepancies in this common area, however, the different ~~data~~ <sup>river data</sup> could account for most of these. T-10838 supersedes T-8607 for the common area for nautical charting purposes. No other previously registered topographic surveys exist of subject coverage.

*T-10838 only*  
*river data place*  
*Co. 14*

63. Comparison with Maps of Other Agencies

Bonnaville Dam, Ore.-Wash., 1:62,500, 1957, U.S. Geological Survey  
Hood River, Ore.-Wash., 1:62,500, 1957, U.S. Geological Survey  
White Salmon, Ore.-Wash., 1:62,500, 1957, U.S. Geological Survey

Subject surveys at scale of 1:10,000 do not readily permit a detailed comparison with above-listed quadrangles at 1:62,500. However, shoreline differences exist throughout.

64. Comparison with Contemporary Hydrographic Surveys

There are no contemporary hydrographic surveys of subject area.

65. Comparison with Nautical Charts

6137      1:40,000      Revised to March 1961

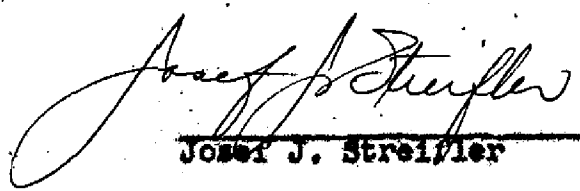
There are considerable disagreements between these surveys. An evaluation of these by the Nautical Chart Division for possible early consideration is recommended. Typical major discrepancies are at the following locations:

1. Lat. 45° 41', Long. 121° 31' - in the vicinity of Government Cove
2. Lat. 45° 41' 45", Long. 121° 41' - see long point of land and islands SW thereof
3. At the Oregon shore of Columbia River directly west of Hood River - White Salmon Bridge (lat. 45° 43' - long. 121° 30' to 31').

66. Adequacy of Results and Future Surveys

Subject surveys have been compiled according to instructions and no deficiencies in adequacy or accuracy are indicated.

Reviewed by:

  
Josef J. Streifler

Approved by:

  
Chief, Review & Drafting Section

  
Chief, Nautical Chart Division

  
Chief, Photogrammetry Division

  
Chief, Operations Division



## NAUTICAL CHARTS BRANCH

SURVEY NO. T-10839

### Record of Application to Charts

[illegible]

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.