

10838

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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-10838

LOCALITY

State Oregon & Washington

Columbia River,

General locality Bonneville Dam Pool

Locality Eagle Creek

1959

CHIEF OF PARTY

Lorne G. Taylor, Photogrammetric Office

LIBRARY & ARCHIVES

DATE _____

USCOMM-DC 5087

10838

DESCRIPTIVE REPORT - DATA RECORD

T - 10838

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

Field and Office

Photogrammetry (IV)

Modification: Letter 73/rrj dated 9 March 1959

Letter 83les dated 12 March 1959

Method of Compilation (III): Kelsh Stereoscopic Instrument

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:7200 & 1:4800

Viewing Scales

Pantograph Scale

1:10,000

Scale Factor (III): None

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):

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

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

Reference Station (III): GODS, 1957

Lat.: 45° 39' 44.687"

Long.: 121° 53' 39.530"

Adjusted X
Unadjusted

Plane Coordinates (IV):

State: Oregon

Zone: North

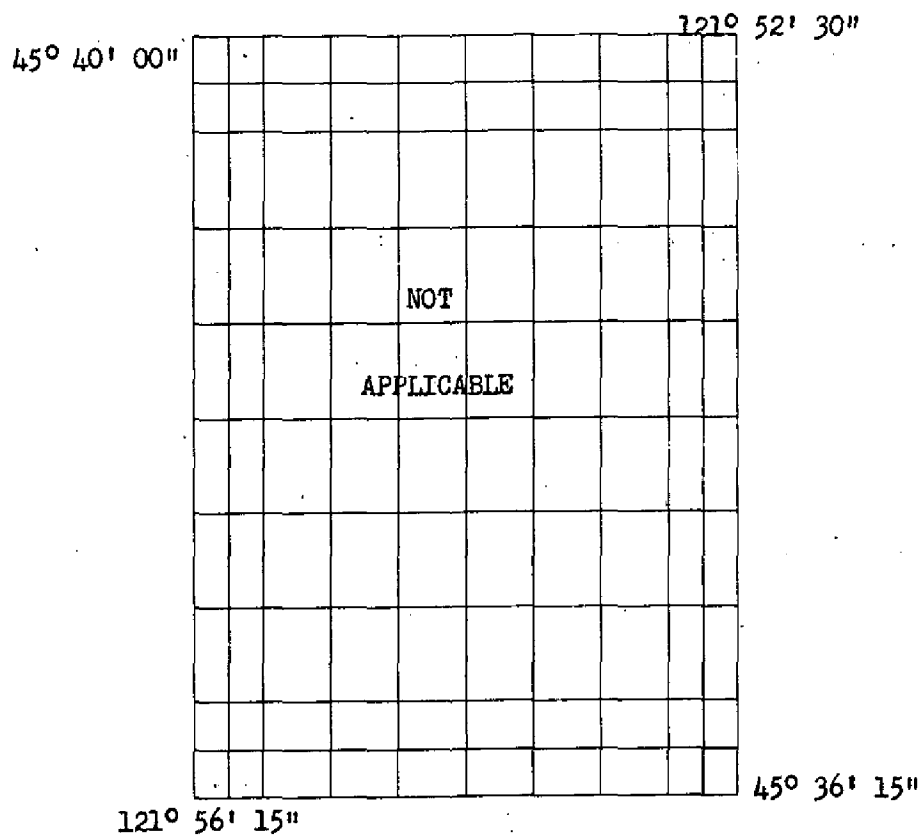
Y= 730,673.34

X= 1,643,525.79

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): Charles H. Bishop
Robert B. Melby

Date: 2-24-59

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

~~Mean High Water~~ Shoreline

Location (III) (State date and method of location): Located by field inspection on 2-24-59 on single lens ratio prints taken 6-14-51 and delineated by Kelsh Stereoscopic Instrument on models of C&GS photography of 6-14-51 supplemented by U.S.E. photography of 7-22-57. The shoreline in the gradient of Bonneville Dam Pool from 72.0 ft. normal pool level at the forebay and proceeding upstream at the pool

Projection and Grids ruled by (IV): gradient of C&GS photography.

Date:

P. Dempsey

12-20-58

Projection and Grids checked by (IV): Shoup

Date: 12-23-58

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

Date: 2-25-59

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

Date: 2-26-59

Radial Plot or Stereoscopic George Ball

Date: 2-11-59

Control extension by (III):

Planimetry D. N. Williams

Date: 3-13-59

Stereoscopic Instrument compilation (III):

Contours

Date:

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

Date: 3-31-59
5-4-59

Photogrammetric Office Review by (III): J. E. Deal

Date: 3-16-59
5-5-59

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

Date:

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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 51-0

Bonneville Dam
Pool Level
~~Stage of Tide~~ (Forebay)

Number	Date	PHOTOGRAPHS (III) Time	Scale	
51-0-7058 thru 7061	6-14-51	Unknown	1:36,000 (contact) 1:10,000 (ratio)	79.3 above M.S.L.
CE-NPP-57-4335 thru 4337	7-22-57	13:49	1:24,000 (contact)	73.7 above M.S.L.

Tide (III)

Reference Station: Not applicable
Subordinate Station:
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

Washington Office Review by (IV):

Date:

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Le Landy

Date:

*J. I. Striefler
July 1961
Oct 1961*

Land Area (Sq. Statute Miles) (III): 12
Shoreline (More than 200 meters to opposite shore) (III): 4
Shoreline (Less than 200 meters to opposite shore) (III): 0.5
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 16
Number of BMs searched for (II):
Number of Recoverable Photo Stations established (III): 5
Number of Temporary Photo Hydro Stations established (III): None

Recovered: 12
Recovered:

Identified: 3
Identified:

Remarks:

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

The ten (10) subject map manuscripts represent the westernmost shoreline surveys of project PH-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 crown 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-10838

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)", 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. 10838

PROJECT NO. Ph-5807

SCALE OF MAP 1:10,000

SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ν -COORDINATE LONGITUDE OR x -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
				FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
BONNEVILLE DAM	OREG.N	N.A.	723,387.28	3387.28	(1612.72)		1032.4	(491.6)		
WATER TANK 1957	P-1198	1927	1,632,710.88	2710.88	(2289.12)		826.3	(697.7)		
B.P.A. Downstream	"	"	722,620.71	2620.71	(2379.29)		798.8	(725.2)		
Tower 1, 1957	"	"	1,629,609.17	4609.17	(390.83)		1404.9	(119.1)		West of limit
GODS 1957	"	"	730,673.34	673.34	(4326.66)		205.2	(1318.8)		
	P-1193	"	1,643,525.79	3525.79	(1474.21)		1074.7	(449.3)		
DITTO	"	"	730,706.65	706.65	(4293.35)		215.4	(1308.6)		
Sub Station "A"	"	"	1,643,772.05	3772.05	(1227.95)		1149.7	(374.3)		
DITTO	"	"	730,646.09	646.09	(4353.91)		196.9	(1327.1)		
Sub Station "B"	"	"	1,643,800.14	3800.14	(1199.86)		1158.3	(365.7)		
BENCH MARK	"	"	727,349.67	2349.67	(2650.33)		716.2	(807.8)		
T-44, 1939	P-36	"	1,637,459.22	2459.22	(2540.78)		749.6	(774.4)		
BONNE 1957	"	"	723,335.26	3335.26	(1664.74)		1016.6	(507.4)		
	P-1193	"	1,632,668.24	2668.24	(2331.76)		813.3	(710.7)		
B.P.A. Upstream	"	"	722,524.42	2524.42	(2475.58)		769.4	(754.6)		West of limit
Tower 1, 1957	P-1198	"	1,629,810.47	4810.47	(189.53)		1466.2	(57.8)		West of limit
Bradford Island	U.S.E.	"	723,091.29	3091.29	(1908.71)		942.2	(581.8)		
Light 3, 1959	Position	"	1,633,041.75	3041.75	(1958.25)		927.1	(596.9)		
Bridge of the Gods	OREG.N	"	730,809.16	809.16	(4190.84)		246.6	(1277.4)		
Main Span, Northeast	P-36	"	1,641,864.15	1864.15	(3135.85)		568.2	(955.8)		
Pier 1939	"	"	729,491.11	4491.11	(508.89)		1368.9	(155.1)		
CASCADE 1901	P-80	"	1,646,299.56	1299.56	(3700.44)		396.1	(1127.9)		
EAGLE 1957	"	"	722,997.62	2997.62	(2002.38)		913.7	(610.3)		
	P-1193	"	1,634,548.37	4548.37	(451.63)		1386.3	(137.7)		

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

MAP T-10838

PROJECT NO. Ph-5807

SCALE OF MAP 1:10,000

SCALE FACTOR None

[illegible]

COMPILATION REPORT

Map Manuscript T-10838

Project Ph-5807

31. Delineation:

The Kelsh Stereoscopic Instrument was used to compile the planimetry.

The C&GS photography of 8-30-58 did not cover the area of this manuscript. A flight of C&GS photography taken on 6-14-51 was furnished for the compilation of the planimetric details. The U. S. Engineers had 1:24,000 scale photography taken on 7-22-57 covering the river area of this manuscript. Kelsh plates were obtained of this photography and because this photography showed very recent shoreline conditions it was used to compile the shoreline and adjacent features. The 1951 photography was used for the compilation of interior details on the Oregon side of the river.

Refer to 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 portion of the corporate limits of Cascade Locks falling on this manuscript were obtained from a print of the following:

Map of Cascade Locks, Oregon, Scale 1" = 500'.

The limits of Eagle Creek Campground were transferred from a plan entitled "Eagle Creek Camps and Picnic Grounds", Scale 1" = 100' which was furnished this office by the Regional Forester, U. S. Forest Service. This plan does not furnish adequate information for accurate delineation of the campground limits and those shown on the manuscript are approximate.

The Hood River County - Multnomah County line was determined from the General Highway Map of Hood River County, Oregon, prepared by The Oregon State Highway Department, Scale 1:62,500. Multnomah County could not furnish any accurate data on the location of the boundary. The location shown on the manuscript is considered to be approximate.

Oregon State Parks and Waysides were delineated from a plan furnished by the Oregon State Highway Commission showing state-owned land along U. S. Highway 30. This plan is also inadequate for accurate delineation and the limits shown on the manuscripts merely represent the areas.

34 to 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:

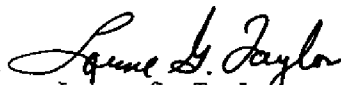
There were sufficient structures having geographic positions of less than 3rd order accuracy to supplement the triangulation stations for use as control for future surveys. Refer to Item 49: Notes to the Hydrographer.

39. Junctions:


A satisfactory junction was completed with T-10837 on the north. There are no contemporary surveys on the south and east. On the west this manuscript has a common area with T-8607 of Project Ph-17(47). Upon comparison with an ozalid print of T-8607 it was found that a satisfactory junction may be completed by making a slight adjustment in longitude position of the planimetry shown on T-8607. It is believed that the Kelsh compilation of T-10838 is more accurate than the graphic compilation of T-8607.

40 - 46 and 47 - Facts relative to the subjects of Items 40 - 46 and 47 are identical with those described under these paragraphs in the descriptive report for T-10837.

Approved:


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

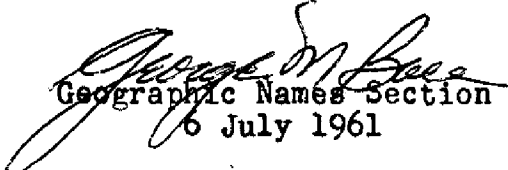
Respectfully submitted:


J. Edward Deal
Cartographer
C&GS

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48. Geographic Names:

Boat Rock
Bradford Island
Bridge of the Gods
Cascade Locks
Columbia River
Columbia River Highway
Eagle Creek
Eagle Creek Campground (USFS)
Hood River County
Lewis & Clark Highway
Multnomah County
North Bonneville
Oregon
Ruckel Creek
Sheridan Forest Wayside
Sheridan Point
Skamania County
Spokane, Portland & Seattle RR
Union Pacific RR
Washington
Wauna Lake


Geographic Names Section
6 July 1961

10838

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49. Notes to the Hydrographer:

Forms 567 were submitted listing the geographic positions of the following:

BRADFORD ISLAND LIGHT 3
BRADFORD SLOUGH LIGHT 2
BRADFORD SLOUGH ENTRANCE LIGHT 4
SHERIDAN POINT LIGHT 5
CASCADE RAPIDS LOWER RANGE FRONT LT. 6
CASCADE RAPIDS LOWER RANGE REAR LT.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 10838

1. Projection and grids X 2. Title _____ 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) None 7. Photo hydro stations None 8. Bench marks None 9. Plotting of sextant fixes X 10. Photogrammetric plot report X 11. Detail points Kelsh Comp.

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline X 13. Low-water line X 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 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. _____

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:

M-2623-12

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 FH-17 overlaps into T-10838. There are some discrepancies in this common area, however, the different ~~datums~~ ^{could} *River Datum places* 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.

63. Comparison with Maps of Other Agencies

Bonneville 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

6157 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° 51' - 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

Josef J. Streifler

L. C. Hardy
Approved by:

Chief, Review & Drafting Section

Marvin Hansen

Chief, Nautical Chart Division

J. E. Wough 5/10/62

Chief, Photogrammetry Division

W. S. Skelton

Chief, Operations Division

NAUTICAL CHARTS BRANCH

SURVEY NO. T-10838

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.