

orig
10841

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-10841

LOCALITY

State Oregon & Washington

Columbia River

General locality Bonneville Dam Pool

Locality Thirteen Mile Point

1959

CHIEF OF PARTY

Lorne G. Taylor, Photogrammetric Office

LIBRARY & ARCHIVES

DATE

USCOMM-DC 5087

10841

DESCRIPTIVE REPORT - DATA RECORD

T - 10841

Project No. (II): Ph-5807 Quadrangle Name (IV):

Field Office (II): Hood River, Oregon

Chief of Party: Lorne G. Taylor

Unit Chief: Charles H. Bishop

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 83/es dated 12 March 1959

Method of Compilation (III): Kelsh Stereoscopic Instrument

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Viewing Scale 1:6000

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): 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
to 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): SHELLROCK, 1957

Lat.: 45° 41' 33.358"

Long.: 121° 44' 24.743"

Adjusted X
Unadjusted

Plane Coordinates (IV):

State: Oregon

Zone: North

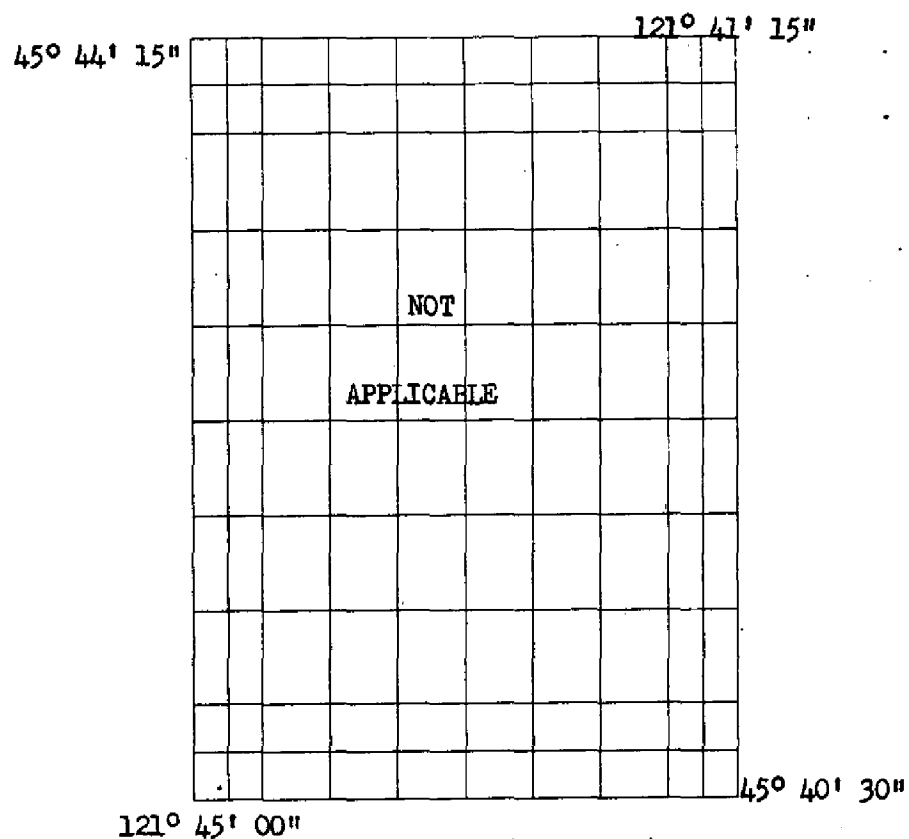
Y= 741,036.25

X= 1,683,091.01

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 & April 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 in March 1959 on single lens ratio photographs taken 30 Aug. 1958. 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 C&GS photography.

Projection and Grids ruled by (IV): P. Dempsey

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
4-20-59

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

Date: 3-3-59
4-20-59

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

Date: 2-11-59

Planimetry D. N. Williams
Stereoscopic Instrument compilation (III):
Contours

Date: 4-17-59

Date:

Manuscript delineated by (III): C. C. Harris (scribing)
C. C. Harris (stick-up)

Date: 4-27-59
7-28-59

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

Date: 4-20-59
7-28-59

Elevations on Manuscript checked by (II) (III): None

Date:

DESCRIPTIVE REPORT - DATA RECORD

5. U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

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

Bonneville Dam
Pool Level - Fore-
~~Stage of Tide~~ bay

PHOTOGRAPHS (III)
Number Date Time Scale
58-S-7877A thru 8-30-58 10:18 1:30,000
7879A

74.0' above ,.S.L.

Tide (III)

Reference Station:

Subordinate Station:

Subordinate Station:

Not Applicable

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Ratio of Ranges	Mean Range	Spring Range

Date:

Date:

Date:

Date:

Land Area (Sq. Statute Miles) (III): 10

Shoreline (More than 200 meters to opposite shore) (III): 7

Shoreline (Less than 200 meters to opposite shore) (III):

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 15

Number of BMs searched for (II):

Number of Recoverable Photo Stations established (III): 2

Number of Temporary Photo Hydro Stations established (III):

Recovered: 15

Recovered:

Identified: 1

Identified:

None

Remarks:

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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 Bay. 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 (Kalah 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 crownar 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-10841

Project Ph-5807

Refer to Field Inspection Report for T-10840 and T-10841
which is included in the Descriptive Report for T-10840 (1959).

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10841

Project Ph-5807

Refer to the "Photogrammetric Plot Report, Columbia River, Project Ph-5807 (Stereoplanigraph Bridge)", Manuscripts T-10837 through T-10845. This report is included in the descriptive report for T-10837 (1959), pages 13 through 16.

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

MAP T-10841

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 DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
SHELLROCK, 1957	Oregon North P-275	N.A. 1927	741,036.25	1036.26	(3963.74)		315.9	(1208.1)	
			1,683,091.01	3094.01	(1908.99)		942.1	(581.9)	
"	Office	"	741,081.69	1081.69	(3918.31)		329.7	(1194.3)	
Sub Station "A"	Comp.		1,683,405.75	3405.75	(1594.25)		1038.1	(485.9)	
"	"	"	740,957.11	957.11	(4042.89)		291.7	(1232.3)	
Sub Station "B"	"	"	1,683,323.93	3323.93	(1676.07)		1013.1	(510.9)	
BACKBONE, 1939	Oregon North P-27	"	739,495.74	4495.74	(504.26)		1370.3	(153.7)	
			1,686,034.73	1034.73	(3965.27)		315.4	(1208.6)	
CREST, 1957	"	"	745,242.69	242.69	(4757.31)		74.0	(1450.0)	
			1,692,595.11	2595.11	(2404.89)		791.0	(733.0)	
CRYSTAL, 1939	"	"	743,840.31	3840.31	(1159.69)		1170.5	(353.5)	
			1,693,182.89	3182.89	(1817.11)		970.1	(553.9)	
DOG MOUNTAIN, 1939	"	"	748,252.51	3252.51	(1747.49)		991.4	(532.6)	
			1,694,018.31	4018.31	(981.69)		1224.8	(299.2)	
LINDSEY, 1957	"	"	740,440.70	440.70	(4559.30)		134.3	(1389.7)	
			1,688,906.86	3906.86	(1093.14)		1890.8	(333.2)	
POOL MARK (USE) 1957	"	"	740,445.00	445.00	(4555.00)		135.6	(1388.4)	
			1,688,904.58	3904.58	(1095.42)		1190.1	(333.9)	
PORTLAND-SPOKANE AIRWAY BEACON, 48 MILE RED BLINKER 1939	"	"	740,768.39	768.39	(4231.61)		234.2	(1289.8)	
			1,684,157.68	4157.68	(842.32)		1267.3	(256.7)	
POWER, 1939	"	"	743,610.63	3610.63	(1389.37)		1100.5	(423.5)	
			1,690,620.08	620.08	(4379.92)		189.0	(1335.0)	
PUPPY, 1946	"	"	748,561.32	3561.32	(1438.68)		1085.5	(438.5)	
			1,693,761.81	3761.81	(1238.19)		1146.6	(377.4)	

1 FT. = 3048006 METER

COMPUTED BY: J.E.D.

DATE 12-4-58

CHECKED BY: J.L.H. & L.L.G.

DATE 12-5-58

COMM. DC. 57843

MAP T-10841	PROJECT NO. Ph-5807	SCALE OF MAP 1:10,000	SCALE FACTOR None
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[illegible]

1 FT. = 3048006 METER	DATE 12-5-58	CHECKED BY J. E. D.	DATE 12-5-58
COMPUTED BY L. L. G.			

COMM-DC-57843

COMPILATION REPORT

Map Manuscript T-10841

Project Ph-5807

31. Delineation:

The Kelsh Stereoscopic Instrument was used to compile the planimetry. The C&GS photography was adequate to compile the planimetric details to the limits indicated on the project index.

Refer to last paragraph under this heading in the descriptive report for T-10837 (1959).

32. Control:

Refer to the Photogrammetric Plot Report (Stereoplanigraph Bridge) T-10837 through 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 through 17.

33. Supplemental Data:

The limits of Lindsey Creek State Park and Starvation Creek State Park were obtained from plans of these parks furnished by the Oregon State Parks Department.

34 to 37:

Facts relative to the subjects of Items 34 to 37 are practically identical with those described under these paragraphs in the descriptive report for T-10837 (1959).

38. Control for Future Surveys:

For this manuscript there were sufficient triangulation stations recovered along with the located fixed aids to navigation to meet the spacing requirements for control for future surveys.

39. Junctions:

A satisfactory junction was completed with T-10840 on the west and T-10842 on the east. There are no contemporary surveys to the north and south.

40 - 46:

Facts relative to the subject of items 40 and 46 are identical with these paragraphs in the descriptive report for T-10837 (1959).

47. Comparison with Nautical Charts:

Comparison was made with Nautical Chart 6157, Scale 1:40,000 3rd edition 7-14-58. Two islands appearing on the chart at Long. $121^{\circ} 42'$ and Long. $121^{\circ} 43'$ respectively are not visible on the photographs and have not been indicated on the map manuscript.

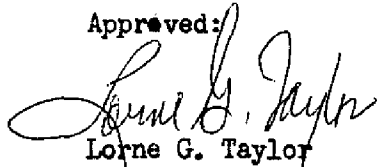
"Items to be applied to nautical charts immediately".

None

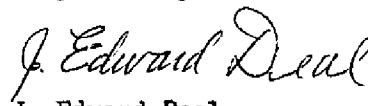
"Items to be carried forward".

None.

Approved:


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

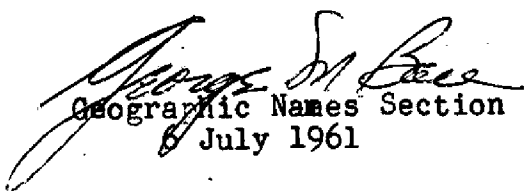
Respectfully submitted:


J. Edward Deal
Cartographer
C&GS

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48- Geographic Names:

Collins Creek
Collins Point
Columbia River
Columbia River Highway
Dog Mountain
Hood River County
Lewis and Clark Highway
Lindsey Creek
Lindsey Creek State Park
Oregon
Shellrock Mountain
Skamania County
Spokane, Portland & Seattle RR
Starvation Creek State Park
Thirteen Mile Point
Union Pacific RR
Warren Creek
Washington


Geographic Names Section
8 July 1961

PHOTOGRAMMETRIC OFFICE REVIEW

T-10841

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 X

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. C.C. Harris 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:

M-2623-12

15

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 datums ~~could~~ ^{T-10838 on 14} 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. ^{river datum, planes could}

63. Comparison with Maps of Other Agencies

Hemlock 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:


Joseph J. Streifler

Approved by:


Chief, Review & Drafting Section


Chief, Nautical Chart Division


Chief, Photogrammetry Division


Chief, Operations Division

NAUTICAL CHARTS BRANCH

SURVEY NO. T-10841

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.