

orig.
10842

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-10842

LOCALITY

State Oregon & Washington

General locality Columbia River

Locality Little White Salmon River

1959

CHIEF OF PARTY

Lorne G. Taylor, Photogrammetric Office

LIBRARY & ARCHIVES

DATE _____

USCOMM-DC 5087

10842

DESCRIPTIVE REPORT - DATA RECORD

T - 10842

Project No. (II): Ph-5807

Quadrangle Name (IV):

Field Office (II): Hood River, Oregon

Chief of Party: Lorne G. Taylor

Photogrammetric Office (III): Portland, Oregon

Unit Chief: Charles H. Bishop

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~~
i.e., ~~mean low water or mean lower low water~~

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

Reference Station (III): COOKS, 1939

Lat.: 45° 42' 36.192"

Long.: 121° 39' 57.114"

Adjusted X
Unadjusted

Plane Coordinates (IV):

State: Oregon

Zone: North

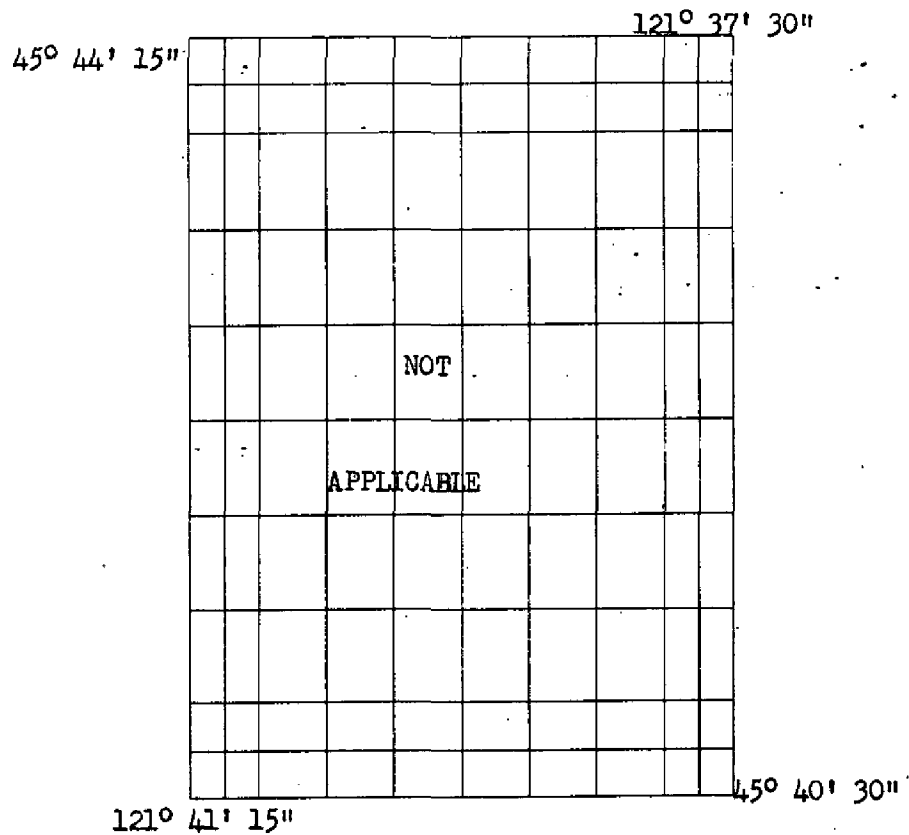
Y= 747,116.84

X= 1,702,177.88

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): Robert 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 on 3-4-59 on single lens ratio prints taken 30 Aug. 1958 and delineated by Kelsh Stereoscopic Instrument from models of the same photography. The shoreline is the gradient of the 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. J. 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 & 3-19-59

Control checked by (III): J. E. Deal & K. W. Jeffers

Date: 3-3 & 3-19-59

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

Date: 2-11-59

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

Date: 5-5-59

Date:

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

Date: 5-18-59
7-21-59

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

Date: 7-24-59

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

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

Number	Date	PHOTOGRAPHS (III)		Scale	Bonneville Dam Pool - Forebay Stage of Tide
		Time			
58-S-7874A thru 7877A	8-30-58	10:18		1:30,000 (contact) 1:10,000 (ratio)	74.0 ft. above M.S.L.

Tide (III)

Reference Station:
Subordinate Station: Not Applicable
Subordinate Station:

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): 9

Shoreline (More than 200 meters to opposite shore) (III): 6.0

Shoreline (Less than 200 meters to opposite shore) (III): 1.0

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 17

Recovered: 12

Identified: 1

Number of BMs searched for (II):

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): None

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-3837. 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 stereocompiling instrument (Kelish 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 master 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

Columbia River - Bonneville to Umatilla, Oregon

Sheets 10842, 10843

Project Ph-5807

2. Areal Field Inspection:

This area is the Columbia River Gorge. Both sides of the Columbia River are bounded by steep wooded terrain with precipitous cliffs. Lumbering and farming are the chief industries. Tug boat and barge traffic ply the waters of the Columbia River. The north side of the river is served by the Spokane, Portland and Seattle railway and by U.S. Highway 830. The south side of the river is served by the Union Pacific Railroad and by U.S. Highway 30. There are no incorporated communities in the area. There are several railroad and highway tunnels along the north shore of the Columbia River. There is a railroad bridge and a highway bridge over the mouth of the Little White Salmon River.

3. Horizontal Control:

- a. No supplemental control was established.
- b. No datum adjustment was made by the field party.
- c. Stations of other agencies were not recovered.
- d. All stations required by the project instructions were identified.
- e. The following Coast and Geodetic Survey stations were not searched for:

Portland - Spokane Airway, 55-Mile Red Blinker, 1939

This station was reported as destroyed at a previous date.

The following stations have been reported as LOST on Form 526:
Sheet 10842

Cooks Light, 1939

Cooks, Railroad Station, East Gable, 1939

Perham Creek Light, 1939

Viento, Large Barn, East Gable, 1939

Sheet 10843

Portland - Spokane Airway Beacon, 55-Mile Red
Blinker, 1939

If one or both reference marks were recovered and the station mark was not, the station was considered as recovered and not lost.

4. Vertical Control:

Vertical Control not applicable.

5. Drainage and Contours:

Contours not applicable.

The drainage has been indicated on the field photographs where this feature is discernible, usually near the mouths of the streams as the upper reaches of the drainage pattern are obscured by woodland cover.

6. Woodland Cover:

Representative areas of the woodland cover have been indicated on the field photographs.

7. Shoreline and Alongshore Features:

a. The shoreline as indicated on the field photographs is the normal pool level of the Columbia River as controlled by the Corps of Engineers at the face of Bonneville Dam. The elevation of the water surface of the river at the time of photography was about 1.5 feet above the established normal pool level. This difference in surface elevations is not great enough to cause an appreciable horizontal displacement of the shoreline. The image of the shoreline as it appears on the field photographs can be considered the mapping feature. The character of the shore has been indicated on the field photographs.

b. Low Water Line:

Not applicable.

c. The Foreshore:

Not applicable.

d. Bluffs and Cliffs:

Bluffs and cliffs were noted on the field photographs, estimated heights were indicated on the photography.

e. Docks, Wharves, Piers, Landings etc:

There are no docks, piers or wharves in this area. In Drano Lake there are numerous dolphins and piles used to secure log rafts.

f. Submarine Cables:

There are no submarine cable crossings in the area.

g. Other Shoreline Features:

At Cook, Washington, there is a small lumber mill. At the north end of Drano Lake there is a fish hatchery. The log dump at Drano Lake has been indicated on the field photography.

8. Offshore Features:

Rocks, dolphins, piles, tree stumps and snags have been indicated on the field photographs.

9. Landmarks and Aids:

a. There are no landmarks for charts in Sheets 10842 and 10843.

b. There are no interior landmarks within the area of this report.

c. There are no aeronautical aids within the area of this report.

d. The following fixed aids to navigation were located and identified on the field photographs:

<u>Aid</u>	<u>How Located</u>	<u>Ident. on Photo</u>
Viento Light 18	Triangulation	58 S 7877A
Mitchell Point Range Rear Light	Photo Plot	58 S 7875A
Mitchell Point Range Front Light 20	Triangulation	58 S 7875A

e. There are no floating aids to navigation within the area covered by this report.

10. Boundaries, Monuments and Lines:

No boundaries, monuments or lines were located during the field work. ~~The state line between Washington and Oregon is the Columbia River.~~

11. Other Control:

No other control was established within the area covered by this report.

12. Other Interior Features:

Roads have been classified in accordance with Photogrammetry Instruction 56 dated 1 July 1958.

Buildings have been classified on field photographs in accordance with Photogrammetry Instruction 54 dated 2 January 1958.

There is a power transmission line supported on skeleton steel towers along the north slope of the gorge of the Columbia River.

There is a wooden flume that transports rough lumber from a sawmill at Willard, Washington to a lumber mill at Hood Siding, Washington along the face of the bluffs and cliffs on the east side of the Little White Salmon River and then northward along the south slope of the gorge bluffs of the Columbia River.

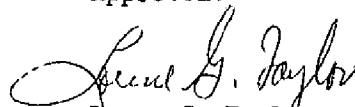
13. Geographic Names Investigation:

Geographic names are the subject of a special report. See 14. a.


14. Special Reports and Supplemental Data:

a. Geographic names within the area covered by this report are contained in a special report "Geographic Names Report, Part 1, Columbia River, Bonneville to The Dalles".

Approved:


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

Respectfully submitted:


Robert B. Melby
Cartographic Survey Aid
C&GS

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10842

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

Pg. 1 of 2

MAP T-10842		PROJECT NO. Ph-5807		SCALE OF MAP 1:10,000		SCALE FACTOR None	
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR λ -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
T3N R9E Sections 27 & 34 East 1/16 Cor. Monument(USE) 1939	Oreg.N. Pg. 38	N.A. 1927	747,716.34 1,705,152.79	2716.34 (2283.66) 152.79 (4847.21)		827.9 (696.1) 46.6 (1477.4)	
DO Sub Sta. "A"		"	747,638.55 1,705,167.13	2638.55 (2361.45) 167.13 (4832.87)		804.2 (719.8) 51.0 (1473.0)	
DO Sub Sta. "B"		"	747,770.07 1,705,091.64	2770.07 (2229.93) 91.64 (4908.36)		844.3 (679.7) 27.9 (1496.1)	
VIENTO LIGHT 18 1959	Office Comp.	"	743,739.37 1,701,650.45	3739.37 (1260.63) 1650.45 (3349.55)		1139.8 (384.2) 503.1 (1020.9)	
Bench Mark P.C. 347062 No. 18-1 1939	Oreg.No Pg. 38	"	747,138.97 1,704,110.96	2138.97 (2861.03) 4110.96 (889.04)		652.0 (872.0) 1253.0 (271.0)	
Bench Mark P.C. 347062 No. 18-2 1939	" Pg. 46	"	747,213.30 1,704,069.94	2213.30 (2786.70) 4069.94 (930.06)		674.6 (849.4) 1240.5 (283.5)	
COOKS, 1939	" Pg. 28	"	747,116.84 1,702,177.88	2116.84 (2883.16) 2177.88 (2822.12)		645.2 (878.8) 663.8 (860.2)	
STARVATION, 1939	" Pg. 27	"	740,399.15 1,698,673.25	399.15 (4600.85) 3673.25 (1326.75)		121.7 (1402.3) 1119.6 (404.4)	
STARVE, 1957	" Pg. 275	"	741,204.39 1,697,368.72	1204.39 (3795.61) 2368.72 (2631.28)		367.1 (1156.9) 722.0 (802.0)	
TRAVERSE HUB HB 369/01.83 R.M. 1 1939	" Pg. 38	"	741,095.69 1,697,155.02	1095.69 (3994.31) 2155.02 (2844.98)		334.0 (1190.0) 656.9 (867.1)	12.
T3N, R9E, SECS 34 & 35, 4 Corner Monument(USE) 1939	DO	"	743,004.69 1,701,782.64	3004.69 (1995.31) 1782.64 (3217.36)		915.8 (608.2) 543.3 (980.7)	
T3N, R9E, SECS 33 & 34 Iron Post 1939	DO	"	747,296.60 1,701,248.31	2296.60 (2703.40) 1248.31 (3751.69)		700.0 (824.0) 380.5 (1143.5)	

1 FT. = 3048006 METER

COMPUTED BY: J.E.D.

DATE 12-4-58

CHECKED BY: J.L.H.

DATE 12-5-58

COMM-DC-57643

COMPILATION REPORT

Map Manuscript T-10842

Project Ph-5807

31. Delineation:

The Kelsh Stereoscopic Instrument was used to compile the planimetry. The C&GS photography of 8-30-58 was adequate to compile planimetric details to the limits indicated on the project index.

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:

Oregon State Parks were delineated from a plan furnished by the Oregon State Highway Commission showing state owned land along U. S. Highway 30. This plan is inadequate for accurate delineation and the boundary lines 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 are sufficient triangulation stations situated along the shorelines of the Columbia River for use in future surveys. Viento Light 18 was located by triangulation methods.

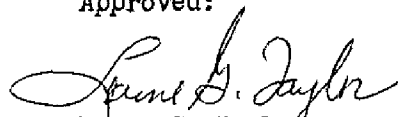
39. Junctions:

Satisfactory junctions were made on the east with T-10843 and on the west with T-10841. There are no contemporary surveys to the north and south.

40 - 46 and 47:

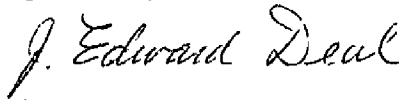
Facts relative to the subjects of Items 40 - 46 and 47 are identical with those described under these paragraphs in the descriptive report for T-10837 (1959).

Approved:



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

Respectfully submitted:



J. Edward Deal
Cartographer
C&GS

16

48. Geographic Names:

Columbia River
Columbia River Highway
Cook
Dog Creek
Drano Lake
Hood River County
Lewis & Clark Highway
Little White Salmon River
Oregon
Perham Creek
Skamania County
Spokane, Portland & Seattle RR
Starvation Creek
Starvation Creek State Park
Union Pacific RR
Viento
Viento Creek
Viento State Park
Washington
Wygant State Park

George M. Bee
Geographic Names Section
6 July 1961

10842

49. Notes to the Hydrographer:

No additional horizontal control for future surveys was located. Viento Light 18 was located by triangulation methods.

PHOTOGRAMMETRIC OFFICE REVIEW

T-10842

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) None 7. Photo hydro stations None 8. Bench marks None 9. Plotting of sextant fixes None 10. Photogrammetric plot report X 11. Detail points None

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 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 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:

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 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 datum planes
could

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').

NAUTICAL CHARTS BRANCH

SURVEY NO. T-10842

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.