**DESCRIPTIVE REPORT**

**Type of Survey**  
Shoreline

**Field No.**  
Ph-5807

**Office No.**  
T-10843

**LOCALITY**

**State**  
Oregon and Washington

**General locality**  
Columbia River

**Locality**  
Mitchell Point

**1951-59**

**CHIEF OF PARTY**

L.G. Taylor, Chief of Field Party  
C.H. Bishop, Portland Photo. Office

**LIBRARY & ARCHIVES**

**DATE**  
May 1962
DESCRIPTIVE REPORT - DATA RECORD

T - 10843

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

Field Office (II): Hood River, Oregon
Chief of Party: Lorne G. Taylor
Photogrammetric Office (III): Portland, Oregon
Unit Chief: Charles H. Bishop
Instructions dated (II) (III): Undated
Officer-in-Charge: Lorne G. Taylor
Field & Office Modification: Letter 73/rrj, dated 9 March 1959
Letter 83/es, dated 12 March 1959
Letter 732/rrj, dated 21 May 1959

Method of Compilation (III): Kelsh Stereoscopic Instrument
Viewing Scale 1:6000
Stereoscopic Plotting Instrument Scale (III): 1:10,000
Pantograph Scale 1:10,000
Scale Factor (III): None

Date received in Washington Office (IV): Date reported to Nautical Chart Branch (IV):

Date registered (IV): 18 Aug 1961

Publication Scale (IV): 
Publication date (IV):

Geographic Datum (III): N.A. 1927
Refer to datum profile on manuscript

Mean sea level except as follows:
Elevations shown as (2B) refer to mean high water
Elevations shown as (2) refer to sounding datum
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 August 1958.

Reference Station (III): ORCHARD, 1957

Lat.: 45° 42' 17.710"
Long.: 121° 35' 57.031"

Adjusted X
Unadjusted

State: Oregon Zone: North

Plane Coordinates (IV):

\[ Y = 745,006.26 \]
\[ X = 1,719,187.33 \]

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.
Areas contoured by various personnel
(Show name within area)
(II) (III)
DESCRIPTIVE REPORT - DATA RECORD

Field inspection by: Robert B. Melby
Date: March & April 1959

Planetable contouring by: 

Completion Surveys by: 

Shoreline. Location (III) (State date and method of location): Located by field inspection on 3-4-59 on single lens ratio prints taken 30 August 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 August 1958, the date of C&G photography.
Projection and Grids ruled by (IV): P. J. Dempsey
Date: 12-20-58

Projection and Grids checked by (IV): Shoup
Date: 12-24-58

Control plotted by (III): L. L. Graves
Date: 2-26-59

Control checked by (III): J. E. Deal
Date: 2-27-59

Radial Plot or Stereoscopic Control extension by (III): George Ball
Date: 2-11-59

Stereoscopic Instrument compilation (III):
Planimetry D. N. Williams
Contours
Date: 5-7-59

Manuscript delineated by (III):
J. L. Harris (Scribing) Date: 5-26-59
C. C. Harris (Stick-up) 8-4-59

Photogrammetric Office Review by (III): J. E. Deal
Date: 8-21-59

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

COMM-SC. 57842
DESCRIPTION REPORT - DATA RECORD

Camera (kind or source) (III): USC&GS - Single lens 58-3

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<th>Time</th>
<th>Scale</th>
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<td>10:18</td>
<td>1:30,000 (contact)</td>
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<td>thru 7875A</td>
<td></td>
<td></td>
<td>74.0 ft. above M.S.L</td>
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<pre><code>                                                             | 1:10,000 (ratio) |
</code></pre>

5.
Bonneville Dam Pool
level - Forebay

Tide (III)

Reference Station: Not Applicable
Subordinate Station:
Subordinate Station:
Washington Office Review by (IV):
Final Drafting by (IV):
Drafting verified for reproduction by (IV):
Proof Edit by (IV):

Date: July 1961
Date: May-Aug. 1959
Date: July 1961
Date: Sept. 1961

Land Area (Sq. Statute Miles) (III): 11
Shoreline (More than 200 meters to opposite shore) (III): 6.0
Shoreline (Less than 200 meters to opposite shore) (III): None
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 17
Number of BMs searched for (II): None
Number of Recoverable Photo Stations established (III): 2
Number of Temporary Photo Hydro Stations established (III): None

Remarks:
SUMMARY

TO ACCOMPANY SHORELINE MAP MANUSCRIPTS
T-10537 through T-10546

The ten (10) subject map manuscripts represent
the westernmost shoreline surveys of project PI-5807.
The project covers the Columbia River and adjacent land
areas of Oregon and Washington from Bonneville Dam east-
ward to the vicinity of Apparly 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 Astoria. T-10537 through T-10546 extend from Bonne-
ville eastward to Rainier 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-10537). The
map manuscripts were compiled by stereoscopic instrumen-
tation (Salaris Flottow) in the Portland Photogrammetric Office
from March to July 1959 from photography of August 1958
(pluse U.S. Engineers' photography of July 1957 and Bonne-
ville Power Administration photography of July 1958) and
results of field inspection of February to April 1959.

The completed compilations as submitted to the Wash-
ington Office are the result of adequately scaled sheets
and suitable for the direct reproduction of registration
copies.

A stereo film positive at the compilation scale of
1:10,000 and the Descriptive Report of each will be regis-
tered and filed in the Bureau Archives.

August 1961
FIELD INSPECTION REPORT

Map Manuscript T-10843

Project Ph-5807

Refer to the Field Inspection Report for T-10842 and T-10843 which is included in the Descriptive Report for T-10842 (1959).
PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10843

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.
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<th>STATION</th>
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<td>751,432.87</td>
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1 FT. = 0.3048006 METER

COMPUTED BY: J.E.D. DATE: 12-4-58
CHECKED BY: J.L.H. DATE: 12-5-58
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<td>1490.0 (34.0)</td>
<td>1080.3 (442.7)</td>
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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.

In accordance with modified instructions planimetry was detailed only to Latitude 45° 44' because the stereoplanigraph control extension did not locate sufficient pass points to orient models of photographs 58-S-7837A thru 7839A. Neither were Kelsh plates furnished for these photographs. The area not detailed is for the most part wooded.

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:**

Seneca Fouts Memorial State Park was 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 limit lines shown on the manuscripts merely represent the area.

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.

One exception is that under Item 34 the U.S.G.S. 15 minute quadrangle, Hood River, Washington–Oregon, Scale 1:62,500 published in 1957 was also available for comparison for drainage.
38. **Control for Future Surveys:**

There are sufficient triangulation stations situated along the shorelines of the Columbia River for use in future surveys.

Triangulation station BARN WEST GABLE, 1939 which did not hold in the stereoplanigraph control extension was located by Kelsh Instrument methods as BARN WEST GABLE, 1959, a recoverable topographic station, in accordance with reference letter 73/rrj dated 25 May 1959.

39. **Junctions:**

Satisfactory junctions were made on the east with T-10844 and on the west with T-10842. 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). An exception is that under Item 46, comparison was made with U.S.G.S. 15 minute Hood River, Washington-Oregon quadrangle, Scale 1:62,500 published in 1957.

Approved:  

[Signature]

Dorne G. Taylor  
LCIR, C&GS  
Officer-in-Charge

Respectfully Submitted:  

[Signature]  
J. Edward Deal  
Cartographer  
C&GS
48. Geographic Names:

Columbia River
Columbia River Highway
Hood River County
Lewis & Clark Highway
Meno Siding
Mitchell Point
Oregon
Phelps Creek
Post Canyon
Ruthton
Seneca Fouts Memorial State Park
Skamania County
Spokane, Portland & Seattle RR
Union Pacific RR
Washington

[Signature]

Geographic Names Section
6 July 1961
49. Notes to the Hydrographer:

No additional horizontal control for future surveys was located. BARN, WEST GABLE, 1959, was destroyed as a triangulation station and located again as a 1959 recoverable topographic station. Mitchell Point Range Rear Light, 1959 was located by the field unit by azimuth and stadia distance from triangulation station Mitchell Point Range Front Light 20, 1939. The angles and distance were plotted on the manuscript from the field notes.
PHOTOGRAFMETRIC OFFICE REVIEW

T-10843


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

ALONGSHORE AREAS
(Nautical Chart Data)

17. Landmarks None 18. Other alongshore physical features X 19. Other alongshore cultural features X

CULTURAL FEATURES


BOUNDARIES

31. Boundary lines X 32. Public land lines None

MISCELLANEOUS

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

43. Remarks:
Geographic Name List

*Columbia River
Columbia River Highway

Hood River County
Hood River Saddle Club

Lewis & Clark Highway

Menlo Siding
Mitchell Creek
Mitchell Point

*Oregon

Phelps Creek
Post Canyon
Post Canyon Road

Ruthton

Seneca Fouts Memorial State Park
Skamania County
Spokane Portland & Seattle R.R.

Union Pacific

*Washington

*B.C.N. Decision
62. Comparison with Registered Topographic Surveys

A small portion of T-8507 (1948) of adjoining project PN-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-8507 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


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° 53'- in the vicinity of Government Cove
2. Lat. 45° 41' 45", Long. 121° 41'- see long point of land and island 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. ADVISORY OF DISPATCH AND PRIOR PUBLISHING

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

Reviewed by:

[Signature]

JOSEPH J. SHIELDS

Approved by:

[Signature]

LE LANDER
Chief, Review & Reporting Section

[Signature]

Marvin Paulson
Chief, Medical Chart Division

[Signature]

J. Waugh 4/1/62
Chief, Photographic Division

[Signature]

[Signature]
Chief, Specialized Division
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<th>CARTOGRAPHER</th>
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<td>6157</td>
<td>J. Brady</td>
<td>Before After Verification and Review</td>
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<td>3/11/19</td>
<td>18531B</td>
<td>F. James</td>
<td>Fully applied</td>
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</table>

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.