
Form 604
U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey  Shoreline

Field No.                  Office No.  T-10848

LOCALITY

State       Oregon & Washington
Columbia River
General locality  Bonneville Dam Pool
Locality    Klickitat River

1958-59

CHIEF OF PARTY

Lerne G. Taylor, Photogrammetric Office
K.W. Jeffers, Portland Photo Off.
LIBRARY & ARCHIVES

DATE               May 1962
DESCRIPTIVE REPORT - DATA RECORD

Field Office (II): Hood River, Oregon
Photogrammetric Office (III): Portland, Oregon
Instructions dated (II) (III): Undated
Method of Compilation (III): Kelsh Stereoscopic Instrument
Manuscript Scale (II): 1:10,000
Scale Factor (III): None

Chief of Party: Lorne G. Taylor
Unit Chief: K. W. Jeffers
Officer-in-Charge: Lorne G. Taylor
Copy filed in Division of Photogrammetry (IV)
Modifications: letter 73/rrj dated 9 March 1959
11 831/n dated 12 March 1959
11 732/rrj dated 21 May 1959

Kelsh Stereoscopic Instrument

Viewing Scale
1:6000
Pantograph Scale
1:10,000

Applied to Chart No. Date received in Washington Office (IV): 788-9 - 5600
Date reported to Nautical Chart Branch (IV): 10 Aug 1961

Publication Scale (IV):
Geographic Datum (III): N.A. 1927
Reference Station (III): LYLE, 1939

Lat.: 45° 41' 14.817"
Long.: 121° 16' 13.118"

Plane Coordinates (IV):
Y = 737,664.39 ft.
X = 1,803,140.48 ft.

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 (II): Charles H. Bishop (Shoreline)  
K. W. Jeffers (Interior)  
Date: 11 & 16 March 1959  
May 1959

Completion Surveys by (II):  
Date:

Shoreline

Mean High Water Location (III) (State date and method of location): Located by field inspection on 3-11 & 16-59 on single lens ratio prints taken 8-28-58 and delineated by Kelsh Stereoscopic Instrument on models of same photography. 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 28 & 30 Aug. 1958, the date of photography.

Projection and Grids ruled by (IV): P. Dempsey  
Date: 12-22-58

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

Control plotted by (III): L. L. Graves  
Date: 3-2-59

Control checked by (III): J. E. Deal  
Date: 3-5-59

Radial Plot or Stereoscopic Control extension by (III): Robert Fuechsnel  
Date: May 1959

Planimetry: L. L. Graves  
Date: 6-9-59

Stereoscopic Instrument compilation (III):  
Contours

Manuscript delineated by (III): J. L. Harris (Scribing)  
C. C. Harris (Stick-up)  
Date: 7-20-59  
1-11-60

Photogrammetric Office Review by (III): J. E. Deal  
Date: 6-19-59  
1-25-60

Elevations on Manuscript checked by (II) (III):  
Date:
DESCRIPTIVE REPORT - DATA RECORD

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

PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>58-S-7820A</td>
<td></td>
<td>11:52</td>
<td>1:10,000 (ratio)</td>
</tr>
<tr>
<td>thru 7822A</td>
<td>8-28-58</td>
<td></td>
<td>73.5 ft. above MSL</td>
</tr>
</tbody>
</table>

Tide (III):

Reference Station:
Subordinate Station: Not applicable
Subordinate Station:

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Date: June 1961
Date: July 1960
Date: June 1961
Date: Aug. 1961

Land Area (Sq. Statute Miles) (III): 11
Shoreline (More than 200 meters to opposite shore) (III): 6
Shoreline (Less than 200 meters to opposite shore) (III): 2
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 20
Number of BMs searched for (II): None
Number of Recoverable Photo Stations established (III): 1
Number of Temporary Photo Hydro Stations established (III): None

Remarks:
These eleven (11) shoreline surveys are a part of PM-5307.
The project covers the Columbia River and adjacent land
areas of Oregon and Washington from Blesleville eastward
to Wanilla. It was designed to aid in the revision of
present nautical charts and in the construction of new
charts from the Dalles Dam upstream to the McHarry Dam.
Subject T-sheets extend from the vicinity of Hoodoos
Island eastward to Miller Island.

A stereoplaniograph bridging plot of T-10847 through T-10857
was done in the Washington Office in February 1959 (see
separate report). They were compiled by stereoscopic in-
struments (Kalah Flatter) in the Portland Photogrammetric
Office in the latter part of 1959 from photography of
August 1958 and field inspection information of March and
May 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 contact 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.

July 1961
FIELD INSPECTION REPORT

Map Manuscript T-10848

Project Ph-5807

Refer to Field Inspection Report for T-10847 thru T-10849
which is included in the Descriptive Report for T-10847 (1959).
PHOTOGRAHMETRIC PLOT REPORT

Map Manuscript T-10848

Project Ph-5807

Refer to the Photogrammetric Plot Report (Stereoplanigraph Bridge) for T-10847 thru T-10849 which is included in the Descriptive Report for T-10847 (1959).
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR $\phi$-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)</th>
<th>DATUM CORRECTION</th>
<th>N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)</th>
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<tbody>
<tr>
<td>Klickitat River</td>
<td>Oreg.N.</td>
<td>N.A.</td>
<td>740.242.26</td>
<td>242.26 (4757.74)</td>
<td>73.8 (1450.2)</td>
<td>1321.1 (202.9)</td>
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<tr>
<td>LIGHT 32, 1957</td>
<td>Oreg.N.</td>
<td>1927</td>
<td>1,794.334.48</td>
<td>4334.48 (665.52)</td>
<td>1057.2 (466.8)</td>
<td>460.2 (1063.8)</td>
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<tr>
<td>Junction, 1957</td>
<td>Oreg.N.</td>
<td>1927</td>
<td>733.468.52</td>
<td>3468.52 (1531.48)</td>
<td>994.8 (529.2)</td>
<td>4.8 (1075.1)</td>
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<tr>
<td>Sub Station &quot;A&quot;</td>
<td>Oreg.N.</td>
<td>1927</td>
<td>1,801.509.91</td>
<td>1509.91 (3490.09)</td>
<td>994.8 (529.2)</td>
<td>448.9 (1075.1)</td>
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<td>Sub Station &quot;B&quot;</td>
<td>Oreg.N.</td>
<td>1927</td>
<td>1,801.142.93</td>
<td>1472.93 (3527.07)</td>
<td>1040.4 (483.6)</td>
<td>394.9 (1129.1)</td>
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<tr>
<td>Rowena Range Front</td>
<td>Office Comp.</td>
<td>1927</td>
<td>736.929.38</td>
<td>1929.38 (3070.62)</td>
<td>588.1 (935.9)</td>
<td>1325.5 (198.5)</td>
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<tr>
<td>Mayer, 1939</td>
<td>Oreg.N.</td>
<td>1927</td>
<td>734.822.96</td>
<td>4822.96 (177.06)</td>
<td>1470.0 (54.0)</td>
<td>242.7 (1281.3)</td>
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<td>McNeil, 1939</td>
<td>Oreg.N.</td>
<td>1927</td>
<td>744.094.50</td>
<td>4094.50 (905.50)</td>
<td>1248.0 (276.0)</td>
<td>325.8 (1198.2)</td>
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<td>Rowena, 1939</td>
<td>Oreg.N.</td>
<td>1927</td>
<td>730.355.66</td>
<td>355.66 (4564.34)</td>
<td>108.4 (1415.6)</td>
<td>152.1 (1371.9)</td>
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<td>Lyle, 1939</td>
<td>Oreg.N.</td>
<td>1927</td>
<td>737.664.39</td>
<td>2664.39 (2335.61)</td>
<td>812.1 (711.9)</td>
<td>957.2 (566.8)</td>
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<td>Lyle High School</td>
<td>Oreg.N.</td>
<td>1927</td>
<td>740.569.19</td>
<td>569.19 (4430.81)</td>
<td>173.5 (1350.5)</td>
<td>1366.9 (157.1)</td>
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<tr>
<td>Flagpole, 1939</td>
<td>Oreg.N.</td>
<td>1927</td>
<td>1,794.484.73</td>
<td>4484.73 (515.27)</td>
<td>1258.9 (265.1)</td>
<td>1356.2 (167.8)</td>
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<tr>
<td>Lyle, Sheep Shed,</td>
<td>Oreg.N.</td>
<td>1927</td>
<td>739.130.11</td>
<td>430.11 (869.89)</td>
<td>1109.1 (414.9)</td>
<td>1264.6 (259.4)</td>
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<tr>
<td>North Gable, 1939</td>
<td>Oreg.N.</td>
<td>1927</td>
<td>1,799.449.52</td>
<td>449.52 (550.48)</td>
<td>1264.6 (259.4)</td>
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<td>Lyle, Sheep Shed,</td>
<td>Oreg.N.</td>
<td>1927</td>
<td>738.638.75</td>
<td>3638.75 (1361.25)</td>
<td>1109.1 (414.9)</td>
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<td>South Gable, 1939</td>
<td>Oreg.N.</td>
<td>1927</td>
<td>1,799.149.01</td>
<td>4149.01 (850.99)</td>
<td>1264.6 (259.4)</td>
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<tr>
<td>STATION</td>
<td>SOURCE OF INFORMATION (INDEX)</td>
<td>DATUM</td>
<td>LATITUDE OR y-COORDINATE</td>
<td>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</td>
<td>DATUM CORRECTION</td>
<td>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</td>
<td>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</td>
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<td>BENCH MARK</td>
<td>Oreg.N.</td>
<td>N.A.</td>
<td>741,077.13</td>
<td>1077.13 (3922.87)</td>
<td>328.3 (1195.7)</td>
<td>889.6 (634.4)</td>
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<td>Q 43, 1939</td>
<td>Pg.42</td>
<td>1927</td>
<td>1,797,918.77</td>
<td>2918.77 (2081.23)</td>
<td>806.2 (717.8)</td>
<td>877.5 (646.5)</td>
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<td>ROWENA GRADE SCHOOL</td>
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<td>&quot;</td>
<td>732,645</td>
<td>2645.45 (2355.70)</td>
<td>689.7 (834.3)</td>
<td>31.3 (1492.7)</td>
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<tr>
<td>FLAGPOLE, 1939</td>
<td>&quot;</td>
<td>&quot;</td>
<td>1,802,879</td>
<td>2879.20 (2121.10)</td>
<td>1214.0 (310.0)</td>
<td>128.8 (1395.2)</td>
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<tr>
<td>TRAVERSE HUB</td>
<td>&quot;</td>
<td>&quot;</td>
<td>732,262.70</td>
<td>2262.70 (2737.20)</td>
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<tr>
<td>511/30.33 (USE),</td>
<td>&quot;</td>
<td>&quot;</td>
<td>1,805,102.78</td>
<td>102.78 (4897.22)</td>
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<tr>
<td>1939</td>
<td>&quot;</td>
<td>&quot;</td>
<td>732,982.91</td>
<td>3982.91 (1017.09)</td>
<td></td>
<td></td>
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<tr>
<td>1939</td>
<td>&quot;</td>
<td>&quot;</td>
<td>1,800,422.71</td>
<td>422.71 (4577.29)</td>
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<td></td>
<td></td>
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</tbody>
</table>

1 FT. = 0.3048006 METER

COMPUTED BY: J.E.D.    DATE: 12-1-59    CHECKED BY: J.L.H.    DATE: 12-1-59
31. Delineation:

The Kelsh Stereoscopic Instrument was used to compile the planimetry.

The C&GS photography was adequate to compile the planimetry to the limits indicated on the project index.


32. Control:

Refer to remarks in the Photogrammetric Plot Report (Stereoplanigraph Bridge) T-10847 thru T-10857 which is included in the Descriptive Report for T-10847 (1959).

33. Supplemental Data:

The limit lines of Mayer State Park were transferred from a plan furnished by the Oregon State Highway Dept., entitled "Boundary, Mayer State Park, Columbia River, Wasco County," Scale 1" = 400', dated 1-21-59. This print is submitted as part of the project data.

34 thru 37

Facts relative to the subjects of these items are identical with those described under these headings in the Descriptive Report for T-10837 (1959) pages 20 and 21 except that under Item 34 the U.S.G.S. 15 minute "White Salmon", Oreg.-Wash. quadrangle, scale 1:62,500 published 1957 was available for drainage comparison. Also under Item 37 Forms 567 were forwarded to Washington on 31 August 1959.

38. Control for Future Surveys:

One fixed aid to navigation was located by Kelsh Instrument. It is listed under Item 49. Notes to the Hydrographer.
39. Junctions:

A satisfactory junction was completed with T-10847 on the west and T-10849 on the east. There are no contemporary surveys to the north and south.

40. Horizontal and Vertical Accuracy:

Refer to the remarks under this heading in the Descriptive Report for T-10837 (1959), page 22.

46. Comparison with existing Maps:

Comparison was made with U.S.G.S. 15 minute "White Salmon", Oreg-Wash. quadrangle, Scale 1:62,500, published 1957.

47. Comparison with Nautical Charts:

Refer to remarks under this heading in the Descriptive Report for T-10837 (1959), page 22.

Forwarded:  

Respectfully submitted:

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

J. Edward Deal  
Cartographer  
C&GS
GEOGRAPHIC NAMES LIST

Chamberlain Lake
Columbia Hills
*Columbia River
Columbia River Highway

Klickitat County
Klickitat River

Lewis & Clark Highway
Lyle

Mayer State Park

*Oregon

Rowena
Rowena Creek
Rowena Dell
Rowena Lookout

Silvas Creek
Spokane, Portland & Seattle R.R.

Union Pacific R.R.

Wasco County
*Washington

* B.C.N. Decision

GEORGIAHIC NAMES SECTION
9 MARCH 1960
49. **Notes to the Hydrographer:**

Form 567 has been submitted listing the geographic position of Rowena Range Front Light 34, 1959 which was located by triangulation methods and Rowena Range Rear Light, 1959 which was located by Kelah Instrument.

The location of photo-hydro stations was not applicable to this project.
PHOTOGNAMETRIC OFFICE REVIEW
T. 10848

1. Projection and grids  
2. Title  
3. Manuscript numbers  
4. Manuscript size  

CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy  
6. Recoverable horizontal stations of less than third-order accuracy (topographic stations)  
7. Photo hydro stations  
8. Bench marks  
9. Plotting of sextant fixes  
10. Photogrammetric plot report  
11. Detail points  

ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline  
13. Low-water line  
14. Rocks, shoals, etc.  
15. Bridges  
16. Aids to navigation  
17. Landmarks  
18. Other alongshore physical features  
19. Other alongshore cultural features  

PHYSICAL FEATURES
20. Water features  
21. Natural ground cover  
22. Planarcontours  
23. Stereoscopic instrument contours  
24. Contours in general  
25. Spot elevations  
26. Other physical features  

CULTURAL FEATURES
27. Roads  
28. Buildings  
29. Railroads  
30. Other cultural features  

BOUNDARIES
31. Boundary lines  
32. Public land lines  

MISCELLANEOUS
33. Geographic names  
34. Junctions  
35. Legibility of the manuscript  
36. Discrepancy overlay  
37. Descriptive Report  
38. Field inspection photographs  
39. Forms  
40.  

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:  

COMM-DC 34529
62. Comparison with Registered Topographic Surveys

There are no registered topographic surveys of this area.

63. Comparison with Maps of Other Agencies


A detailed comparison is impractical because of scale difference. However, several disagreements in shoreline delineation are apparent.

64. Comparison with Contemporary Hydrographic Surveys

There are no contemporary hydrographic surveys of subject area.

65. Comparison with Nautical Charts

6197  1:40,000  Revised to March 1961

There are shoreline differences between these surveys, which should be considered in the future revision of chart 6197. Additional navigation aids have been installed since the field inspection of the T-sheets in 1959 and that are shown on the nautical chart. The surveys, however, are in agreement with their corresponding light lists.

The eastern portion of this group of T-sheets is not covered by existing nautical charts. A new series of nautical charts of the upper Columbia River is being constructed now and at the time of the Washington Office Review, not available for comparison.

66. Adequacy of Results and Future Surveys

T-10647 through T-10857 have been compiled according to instructions and meet the adequacy and accuracy requirements for this type of survey.
# NAUTICAL CHARTS BRANCH

**SURVEY NO. T-10848**

Record of Application to Charts

<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 1942</td>
<td>6157</td>
<td>J. D. A.</td>
<td>Before After Verification and Review</td>
</tr>
<tr>
<td>3/21/47</td>
<td>10531B</td>
<td>C. Jones</td>
<td>Before After Verification and Review</td>
</tr>
</tbody>
</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.