**Type of Survey**: Shoreline  
**Field No.**: Ph-5807  
**Office No.**: T-10875

**LOCALITY**

**State**: Oregon & Washington  
**General locality**: Columbia River  
**Locality**: Alder Creek

**1959**

**CHIEF OF PARTY**

Lorne G. Taylor, Photogrammetric Office

**LIBRARY & ARCHIVES**

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

T = 10875

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

Field Office (II): Umatilla, Oregon
Chief of Party: Lorne G. Taylor
Unit Chief: K. W. Jeffers
Officer-in-Charge: Lorne G. Taylor

Photogrammetric Office (III): Portland, Oregon
Copy filed in Division of Photogrammetry (IV)

Instructions dated (II) (III):
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

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):

Publication Scale (IV): 23 June 1961

Geographic Datum (III): N.A. 1927

Publication date (IV):
Refer to datum Profile on manuscript

Mean sea level except as follows:
Elevations shown as (26) refer to mean high water
Elevations shown as (3) refer to sounding datum
i.e., mean low water or mean lower low water

U.S. Engineers Columbia River
Low-Water Profile

Reference Station (III): DALE (USE) 1942

Lat.: 45° 50' 22.219"
Long.: 119° 54' 44.232"

Plane Coordinates (IV):
State: Oregon Zone: North

Y = 792,715.37
X = 2,149,792.85

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)
DESRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): R. B. Melby (Shoreline)  
W. V. Hull (Interior)  
Date: 4-13-59
Sept. 1959

Completion Surveys by (II):  
Date:

Shoreline: Location (III) (State date and method of location): Located by field inspection on 4-13-59 on single lens ratio prints taken 8-28-58 and delineated by Kelsh Stereoscopic Instrument on models of same photography. The shoreline is the normal gradient of the Columbia River at 110,000 cfs.

Projection and Grids ruled by (IV): P. Dempsey  
Date: 6-30-59

Projection and Grids checked by (IV): Shoup  
Date: 8-3-59

Control plotted by (III): J. L. Harris  
Date: 8-25-59

Control checked by (III): G. C. Harris  
Date: 9-28-59

Radial Plot or Stereoscopic Control extension by (III): John D. Perrow, Jr.  
Date: June 1959

Stereoscopic Instrument compilation (III):  
Planimetry D. N. Williams  
Contours  
Date: 10-6-59

Manuscript delineated by (III): W. V. Hull (Scribing)  
Date: 12-23-59
D. N. Williams (Stick-up)  
1-27-60

Photogrammetric Office Review by (III): J. E. Deal (Rough Draft)  
Date: 10-8-59
Advance  
3-31-60

Elevations on Manuscript checked by (II) (III): None  
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>
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</thead>
<tbody>
<tr>
<td>58-S-7632A</td>
<td>8-28-58</td>
<td>9:26</td>
<td>1:30,000 contact</td>
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<tr>
<td>&amp; 7633A</td>
<td></td>
<td></td>
<td>1:10,000 ratio</td>
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</table>

*58-S-7657A thru 7659A 8-28-58 9:42 DO DO

*Used for field inspection only.

Tide (III)

Reference Station: Not applicable
Subordinate Station: Not applicable
Subordinate Station: Not applicable

Washington Office Review by (IV): Streifler
Final Drafting by (IV): Portland Photograph Office
Drafting verified for reproduction by (IV): Streifler
Proof Edit by (IV): Streifler

Land Area (Sq. Statute Miles) (III): 11
Shoreline (More than 200 meters to opposite shore) (III): 11 statute miles
Shoreline (Less than 200 meters to opposite shore) (III): None
Control Leveling - Miles (II): None
Number of Triangulation Stations searched for (II): 3 Recovered: 3 Identified: 2
Number of BMs searched for (II): 1 Recovered: 1 Identified: 1
Number of Recoverable Photo Stations established (III): 8
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

The Dalles Dam
Stage of Tide: Forebay

159.8 ft. above M.S.L.
River flow at Arlington Gage and Patterson Gage was 107,000 cfs.

Date: March 1961
Date: Dec. 59 - March 60
Date: March 1961
Date: June 1961

COM: DC-57642
SUMMARY

to accompany Shoreline Map Manuscripts
T-10870 through T-10885

The sixteen (16) subject surveys represent the eastern portion of project Ph-5807. The project consists of forty-nine (49) shoreline surveys of the Columbia River (Ore.-Wash.) from Bonneville eastward to Umatilla and was designed to aid in the construction of a new series of nautical charts. T-10870 thru T-10885 extend from Arlington to Umatilla, which are covered by a stereoplanigraph bridging plot done in the Washington Office in June 1959.

The map manuscripts were compiled by Kelsh stereoscopic instruments in the Portland Photogrammetric Office from photography of August 1958 and field inspection information (shoreline - April 59, interior - September 59).

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 color film positive at the compilation scale of 1:30,000 and the Descriptive Report of each will be registered and filed in the Bureau Archives.

May 1961
FIELD INSPECTION REPORT

Map Manuscript T-10875

Project Ph-5807

Refer to Field Inspection Report for T-10870 thru T-10875 which is included in the Descriptive Report for T-10870 (1959).
PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10875

Project Ph-5807

Refer to the Photogrammetric Plot Report (Stereophanigraph Bridge) for T-10870 thru T-10885 which is included in the Descriptive Report for T-10870 (1959).
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION</th>
<th>DATUM</th>
<th>LATITUDE OR y-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
<th>LATITUDE OR x-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
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</thead>
<tbody>
<tr>
<td>DALE (USE) 1942</td>
<td>Oreg.N.</td>
<td>N.A.</td>
<td>792,715.37</td>
<td>2715.37 (2284.63)</td>
<td>2149,792.85</td>
<td>4792.85 (207.15)</td>
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<td>Pg.74</td>
<td>1927</td>
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<tr>
<td>Sub Station &quot;B&quot;</td>
<td>&quot;</td>
<td>&quot;</td>
<td>792,355.54</td>
<td>2355.54 (2644.46)</td>
<td>2149,840.72</td>
<td>4840.72 (159.28)</td>
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<tr>
<td>SIX (USE) 1942</td>
<td>&quot;</td>
<td>&quot;</td>
<td>784,998.53</td>
<td>4998.53 (147)</td>
<td>2144,128.83</td>
<td>4128.83 (871.17)</td>
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<tr>
<td></td>
<td>Pg.74</td>
<td>&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DO</td>
<td>&quot;</td>
<td>&quot;</td>
<td>785,151.73</td>
<td>151.73 (4848.27)</td>
<td>2144,111.32</td>
<td>4111.32 (888.68)</td>
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<tr>
<td>Sub Station &quot;A&quot;</td>
<td>&quot;</td>
<td>&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DO</td>
<td>&quot;</td>
<td>&quot;</td>
<td>785,142.40</td>
<td>142.40 (4857.60)</td>
<td>2143,880.03</td>
<td>3880.03 (1119.97)</td>
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<tr>
<td>Sub Station &quot;B&quot;</td>
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<tr>
<td>THREE (USE) 1942</td>
<td>&quot;</td>
<td>&quot;</td>
<td>778,506.07</td>
<td>3506.07 (1493.93)</td>
<td>2147,575.74</td>
<td>2575.74 (2424.26)</td>
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</tbody>
</table>

1 FT = 0.3048006 METER

31. **Delineation:**

The Kelsh Stereoscopic Instrument was used to compile the planimetry.

The C&GS photography of 8-28-58 was adequate to compile the planimetry to the detail limits indicated on the project index.

Refer to last paragraph Item 31, Delineation, of the Descriptive Report for T-10837 (1959).

32. **Control:**

Refer to the Photogrammetric Plot Report (Stereoplanigraph Bridge) T-10870 thru T-10875 which is included in the Descriptive Report for T-10870 (1959).

33. **Supplemental Data:**

None.

34. **Contours and Drainage:**

Contours are not applicable.

The drainage shown on the manuscript was delineated from field inspection notes supplemented by minute examination of the Kelsh Models for drainage and by visual inspection of the U.S.G.S. topographic quadrangle, "Blalock Island", Oreg. - Wash., Scale 1:125,000, published 1906.

35. **Shoreline and Alongshore Details:**

The shoreline shown on this map manuscript is at the normal river gradient of 110,000 cfs flow. A graph showing this gradient from which the elevation of the shoreline may be determined for any place along the river is shown on the manuscript.

Refer to correspondence included in the Descriptive Report for T-10837 (1959), for a detailed report on this feature.
36. Offshore Details:

Refer to remarks under this heading in the Descriptive Report for T-10865 (1959).

37. Landmarks and Aids:

Forms 567 were submitted to Washington on 12 October 1959 for six fixed aids to navigation and one landmark for charts.

38. Control for Future Surveys:

Six fixed aids to navigation, one object located as a recoverable topographic station and one landmark for charts are listed under Item 49, "Notes to the Hydrographer".

39. Junctions:

A satisfactory junctions was made with T-10874 on the east and T-10876 on the west. There are no surveys to the north and south.

40. Horizontal and Vertical Accuracy:

Refer to remarks under this item in the Descriptive Report for T-10837 (1959).

46. Comparison with Existing Maps:

Comparison was made with U.S.G.S. 30 minute "Elalock Island" Oreg.-Wash. quadrangle, Scale 1:125,000, published 1906.

47. Comparison with Nautical Charts:

Refer to remarks under this heading in the Descriptive Report for T-10853 (1959).

Approved:

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

Respectfully submitted:

J. Edward Deal
Cartographer
C&GS
48. GEOGRAPHIC NAMES LIST

Alder Creek
Alderdale
Alder Ridge

*Columbia River
Columbia River Hwy.

Klickitat County

Morrow County

Oregon

Sixmile Canyon
Spokane, Portland & Seattle R.R.

Union Pacific R.R.

Washington

* B.G.N. Decision

[Signature]

GEOGRAPHIC NAMES SECTION
17 MAY 1960
PHOTOGRAMMETRIC OFFICE REVIEW
T. 10675


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)

PHYSICAL FEATURES

CULTURAL FEATURES

BOUNDARIES
31. Boundary lines X 32. Public land lines None

MISCELLANEOUS

Reviewer

Supervisor, Review Section or Unit

J. Edward Deal

40. 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:
62. Comparison with Registered Topographic Surveys:

There are no registered topographic surveys of this area.

63. Comparison with Maps of Other Agencies:

ARLINGTON, ORE.-WASH. 1:125,000, 1916, U.S. Geological Survey
BLA LOCK IS., ORE.-WASH. 1:125,000, 1906, U.S. Geological Survey
UMATILLA, ORE.-WASH. 1:125,000, 1906, U.S. Geological Survey

Because of scale difference a detailed comparison is impractical.

64. Comparison with Contemporary Hydrographic Surveys:

There are no contemporary hydrographic surveys of subject area.

65. Comparison with Nautical Charts:

The first nautical charts of this portion of the Columbia River are being constructed now. Incomplete compilations are not available for comparison.

66. Adequacy of Results and Future Surveys:

T-10870 through T-10885 have been compiled according to instructions and meet the adequacy and accuracy requirements for this type of survey.

Reviewed by:

Josef J. Streiffer

Approved by:

E. L. Sandusky
Chief, Review & Drafting Sec.
Photogrammetry Division

Maurice D. Watson
Chief, Nautical Chart Division

Chief, Operations Division
<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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<tbody>
<tr>
<td>6/24/76</td>
<td>6/61</td>
<td>D. CORETS</td>
<td>Before  After  Verification and Review</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Superseded by</strong> T-13215, 13216, 12150</td>
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<td></td>
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<td>Before  After  Verification and Review</td>
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<td>Before  After  Verification and Review</td>
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</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.