Type of Survey: Shoreline
Field No.: Ph-5807, Office No.: T-10874

LOCALITY
State: Oregon & Washington
General locality: Columbia River
Locality: Thanksgiving Island

1959
CHIEF OF PARTY
Lorne G. Taylor, Photogrammetric Office

DATE: May 1962
DESCRIPTIVE REPORT - DATA RECORD

T - 10874

Project No. (II): Ph-5807

Field Office (II): Arlington, Oregon

Chief of Party: Lorne G. Taylor

Photogrammetric Office (III): Portland, Oregon

Unit Chief: K. W. Jeffers

Instructions dated (II) (III): Undated

Officer-in-Charge: Lorne G. Taylor

Field and Office

Modification: Letter 73/rrj dated 9 March 1959
Letter 831/es dated 12 March 1959
Letter 732/rrj dated 21 May 1959

Method of Compilation (III): Kelsh Stereoscopic Instrument

Viewing Scale

Stereoscopic Plotting Instrument Scale (III): 1:6000
Pantograph Scale 1:10,000

Manuscript Scale (III): 1:10,000

Scale Factor (III): None

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

Applied to Chart No. Date: Date registered (IV): 23 June 1961

Publication Scale (IV):

Publication date (IV):

Refer to datum profile on manuscript

Mean sea level except as follows:
Elevations shown as (2) refer to mean high-water
Elevations shown as (9) refer to mean low-water
i.e., mean-sea-water-reference-level

U. S. Engineers Columbia River
Low-Water Profile

Geographic Datum (III): N.A. 1927

Reference Station (III): ALDER (USGS) 1916

Lat.: 45° 50' 59.419"
Long.: 119° 56' 21.080"

Adjusted X Unadjusted

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

Y = 796,434.52 X = 2,142,910.13

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): R. B. Melby (Shoreline)  
W. V. Hull (Interior)  
Date: 4-10-59  
Sept. 1959

Plotting contours 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 4-10-59 on single lens ratio prints taken 8-28-58 and delineated by Kelah Stereoscopic Instrument on this 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: 8-24-59

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

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

Stereoscopic Instrument compilation (III):  
Planimetry D. N. Williams  
Date: 10-2-59

Contours

Manuscript delineated by (III): J. L. Harris (Scribing)  
D. N. Williams (Stick-up)  
Date: 12-22-59  
1-26-60

Photogrammetric Office Review by (III): J. L. Harris  
J. E. Deal  
Date: 10-7959  
3-30-60

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

PHOTOGRAPHS (III)

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<thead>
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<th>Time</th>
<th>Scale</th>
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</thead>
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<tr>
<td>58-S-7634A</td>
<td>8-28-58</td>
<td>9:28</td>
<td>1:30,000 contact</td>
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<tr>
<td>thru 7636A</td>
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<td>1:10,000 ratio</td>
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<td>8-28-58</td>
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<td>DO</td>
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<td>thru 7656A</td>
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</table>

* Used for field inspection only.

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):

Land Area (Sq. Statute Miles) (III): 12
Shoreline (More than 200 meters to opposite shore) (III): 8 Statute miles
Shoreline (Less than 200 meters to opposite shore) (III): None
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 2
Number of BMs searched for (II): None
Number of Recoverable Photo Stations established (III): 9
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

** All were fixed aids to navigation.
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 croner film positive at the compilation scale of 1:40,000 and the Descriptive Report of each will be registered and filed in the Bureau Archives.

May 1961
FIELD INSPECTION REPORT

Map Manuscript T-10874

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).
PHOTOGRAHMETRIC PLOT REPORT

Map Manuscript T-10874

Project Ph-5807

Refer to the Photogrammetric Plot Report, Columbia River Ph-5807 (Stereoplanigraph Bridge) T-10870 thru T-10885 which is included in the Descriptive Report for T-10870 (1959).
### Table: Station Data

<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION</th>
<th>DATUM</th>
<th>LATITUDE OR x-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS</th>
<th>N.A. 1927 - DATUM CORRECTION</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<tr>
<td>THANKS (USE) 1942</td>
<td>WALLA WALLA DIST. U.S.G. 1927</td>
<td>780,946.93</td>
<td>946.93 (4053.07)</td>
<td>288.6 (1235.4)</td>
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<td>AIDER (USGS) 1916</td>
<td>org: N. Meas.</td>
<td>796,434.52</td>
<td>1434.52 (3565.48)</td>
<td>137.2 (1086.8)</td>
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<tr>
<td></td>
<td>Pg. X 144</td>
<td>2,142,910.13</td>
<td>2910.13 (2089.87)</td>
<td>887.0 (637.0)</td>
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<td></td>
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</tbody>
</table>

**Notes:**
- 1 FT. = 0.3048006 METER
- COMPUTED BY: J.E.D.  DATE: 12-19-58
- CHECKED BY: J.L.H.  DATE: 1-8-59
COMPILATION REPORT
Map Manuscript T-10874
Project Ph-5807

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, "Elaklock Island", Ore. - 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:

From 567 was submitted to Washington on 12 October 1959 for ten nautical aids. There are no aeronautical aids or landmarks within area of this manuscript.

38. Control for Future Surveys:

None.

39. Junctions:

A satisfactory junction was made on the west with T-10873 and on the east with T-10875. There are no contemporary 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 "Blalock 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:  

Respectfully submitted:

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

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

Alder Ridge
*Columbia River
Columbia River Hwy.

Gilliam County
Klickitat County
Morrow County
Oregon
Spokane, Portland & Seattle R.R.

Thanksgiving Island
Threemile Canyon

Union Pacific R.R.
Washington

* B.G.N. Decision

[Signature]

GEOGRAPHIC NAMES SECTION
17 MAY 1960
49. Notes to the Hydrographer:

Form 567 was submitted listing the scaled positions of ten fixed aids to navigation located by Kelsh Instrument.

Heppner Junction Range Front Light
Heppner Junction Range Rear Light
Island No. 27 Range Front Daybeacon
Island No. 27 Range Rear Daybeacon
Thanksgiving Island Range 1 Front Light
Thanksgiving Island Range 1 Rear Light
Thanksgiving Island Range 2 Front Light
Thanksgiving Island Range 2 Rear Light
Thanksgiving Island Range 3 Front Light
Thanksgiving Island Range 3 Rear Light
PHOTOGRAMMETRIC OFFICE REVIEW

T-10874


CONTROL STATIONS


ALONGSHORE AREAS
(Nautical Chart Data)


PHYSICAL FEATURES


CULTURAL FEATURES


BOUNDARIES

31. Boundary lines  X  32. Public land lines None

MISCELLANEOUS


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

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
BLAOCk IS., ORE.-WASH. 1:125,000, 1906, U.S. Geological Survey
UMATILLA, ORE.-WASH. 1:125,000, 1905, U.S. Geological Survey

Because of scale differences 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. Streifler

Approved by:
La Lande
Chief, Review & Drafting Sec.
Photogrammetry Division

Maurice Towbom
Chief, Nautical Chart Division

F. E. Mast
Chief, Operations Division

Chief, Photogrammetry Div.
### Nautical Charts Branch

**Survey No.** T-10874

**Record of Application to Charts**

<table>
<thead>
<tr>
<th>DATE</th>
<th>Chart</th>
<th>Cartographer</th>
<th>Remarks</th>
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<tr>
<td>6/24/76</td>
<td>6161</td>
<td>D. Corrutz</td>
<td>Before After Verification and Review</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Superseded by T-13215, 13216, 12150</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.