
Form 804
U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT.

Type of Survey    Shoreline
Field No.          Office No. T-10849

LOCALITY
State            Oregon - Washington
General locality Columbia River
Locality         Crates Point

1958-59
CHIEF OF PARTY
Lorne G. Taylor, Photogrammetric Office

LIBRARY & ARCHIVES

DATE        May 1962.
DESCRIPTIVE REPORT - DATA RECORD

T - 10849

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

Field Office (II): The Dalles, Oregon
Photogrammetric Office (III): Portland, Oregon

Instructions dated (II) (III): Undated
Field and Office Modification: Letter 73/rrj dated 9 March 1959

Chief of Party: Lorne G. Taylor
Unit Chief: K. W. Jeffers
Officer-in-Charge: Lorne G. Taylor
Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Kelsh Stereoscopic Instrument

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

Scale Factor (III): None

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

Date received in Washington Office (IV): MAR 9, 1959
Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 10 Aug 1961

Publication Scale (IV):

Geographic Datum (III): N.A. 1927

Reference Station (III): OIL (USE) 1939

Lat.: 45° 39' 50.968" Long.: 121° 12' 55.463"

Adjusted X

Plane Coordinates (IV):

State: Oregon Zone: North

Y = 729,043.17 X = 1,817,096.13

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): C. H. Bishop
K. W. Jeffers

Date: March 1959
May 1959

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Shoreline Location (III) (State date and method of location): Located by field inspection on
2-6-59 on single lens ratio prints taken 8-28-58 and delineated by Kelsh Stereoscopic Instrument on this photography. The shoreline is the gradient of Bonneville Dam Pool from 72.0 ft. normal pool level at the Forebay and proceeding upsteam at the pool gradient of 28 & 30 August 1958, the date of photography.

Projection and Grids ruled by (IV): P. J. Dempsey

Date: 4-16-59

Projection and Grids checked by (IV): Shoup

Date: 4-20-59

Control plotted by (III): L. L. Graves

Date: 5-6-59

Control checked by (III): J. L. Harris

Date: 5-7-59

Radial Plot or Stereoscopic Control extension by (III):

Robert Feuschel

Date: May 1959

Stereoscopic Instrument compilation (III):

Planimetry D. N. Williams

Date: 6-12-59

Contours

Manuscript delineated by (III):

J. L. Harris (Scribing)
L. L. Graves (Stick-up)

Date: 11-3-59
12-22-59

Photogrammetric Office Review by (III): J. L. Harris (Rough Draft)
J. E. Deal (Advance Complete)

Date: 6-26-59
1-21-60

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)

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<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
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</thead>
<tbody>
<tr>
<td>58 S 7793A &amp; 7794A</td>
<td>8-28-58</td>
<td>11:21</td>
<td>1:30,000 (contact) 73.5 ft. above MSL</td>
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<td>8-28-58</td>
<td>11:50</td>
<td>1:10,000 (Ratio)</td>
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</table>

Bonneville Dam Pool level (forebay) Stage of Tide

Tide (III)

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

Washington Office Review by (IV): [Signature]
Final Drafting by (IV): Portland Photographic Office
Drafting verified for reproduction by (IV): [Signature]
Proof Edit by (IV): [Signature]

Date: June 1961
Date: Aug. 1961
Date: June 1961
Date: Aug. 1961

Land Area (Sq. Statute Miles) (III): 11
Shoreline (More than 200 meters to opposite shore) (III): 6 statute miles
Shoreline (Less than 200 meters to opposite shore) (III): 0.5 statute miles
Control Leveling - Miles (II): [Number]
Number of Triangulation Stations searched for (II): 17
Recovered: 15
Identified: 4
Number of BMs searched for (II): None
Number of Recoverable Photo Stations established (III): 5
Number of Temporary Photo Hydro Stations established (III): None

Remarks:
SUMMARY
TO ACCOMPANY SHORELINE MAP MANUSCRIPTS
T-10847 through T-10857

These eleven (11) shoreline surveys are a part of FH-5307. The project covers the Columbia River and adjacent land areas of Oregon and Washington from Bonneville eastward to Umatilla. 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 McNary Dam. Subject T-sheets extend from the vicinity of Neskowin Island eastward to Miller Island.

A stereoplanigraph 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 instruments (Kilch Plotter) 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 surveyed sheets and suitable for the direct reproduction of registration copies.

A cover 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-10849

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).
PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10849

Project Ph-5807

Refer to the Photogrammetric Plot Report (Stereoplanigraph Bridge) for T-10847 thru T-10857 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 y-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
<th>N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<td>Oreg.N.</td>
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<td>733.273.97</td>
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<td>997.9 (526.1)</td>
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<td>(USE)(WASH) 1939</td>
<td>Pg.43</td>
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<td>3273.20 (1726.80)</td>
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<td>3228.98 (1467.02)</td>
<td>98.4 (1425.6)</td>
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<td><strong>SQUALLY PT.</strong></td>
<td>Oreg.N.</td>
<td>Pg.43</td>
<td>729.193.50</td>
<td>4393.50 (806.50)</td>
<td>1278.2 (245.8)</td>
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<td>LIGHT, 1939</td>
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<td>1,817,116.29</td>
<td>2116.29 (2883.71)</td>
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<td><strong>BENCH, 1939</strong></td>
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<td>Pg.29</td>
<td>734.742.99</td>
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<td>1,813,318.74</td>
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<td><strong>CRATES POINT</strong></td>
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<td>Pg.43</td>
<td>723.452.87</td>
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<td>1055.5 (468.5)</td>
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<td>LIGHT, 1939</td>
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<td>1,820,793.26</td>
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<td>723.244.47</td>
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<td><strong>BENCH MARK L 43</strong></td>
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<td>Pg.43</td>
<td>725.267.61</td>
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<td>1939</td>
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<td>1,821,997.82</td>
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<td><strong>BLOCK SIGNAL 3/4</strong></td>
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<td>Pg.42</td>
<td>730.686</td>
<td>686 (4314.)</td>
<td>209.1 (1314.9)</td>
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<td>1,812,165</td>
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<td><strong>CHARLIE, 1939</strong></td>
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1 FT. = 304.8006 METER

COMPUTED BY: J.E.D.         DATE: 12-4-58
CHECKED BY: J.L.H.         DATE: 12-5-58
<table>
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<tr>
<th>STATION</th>
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<th>DATUM</th>
<th>LATITUDE OR y-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<tr>
<td>T2N, R13E, Secs. 8, 9, 16 &amp; 17 Section Corner (USE) 1939</td>
<td>Oreg.N. Pg.43</td>
<td>1927</td>
<td>729,615,18</td>
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<td>T2N, R13E, Secs. 16 &amp; 17 meander corner (USE) 1939</td>
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<td>—</td>
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<td>WINDY, 1939</td>
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<td></td>
<td>572.3 (951.7)</td>
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</tbody>
</table>
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:**

None.

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 "The Dalles" 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:**

Five recoverable topographic stations were located by Kelsh Instrument. They are listed under Item 49: Notes to the Hydrographer.

39. **Junctions:**

A satisfactory junction was made with T-10848 on the west, T-10851 on the east and T-10850 on the south. There is no contemporary survey to the north.
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 "The Dalles" 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:

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

Respectfully submitted:

J. Edward Deal
Cartographer
C&GS
GEOGRAPHIC NAME LIST

Columbia Hills
*Columbia River
Columbia River Highway
Crates Point

Klickitat County

Lewis & Clark Highway

*Oregon

Spokane, Portland & Seattle R.R.
S-ually Point

Tooley Lake

Wasco County
*Washington

* B.G.N. Decision

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

Forms 567 have been submitted listing the geographic positions of the following landmarks which were located by Kelsh Instrument:

- Easterly Tower of North Cable Crossing, 1959
- Center Tower of South Cable Crossing, 1959
- Westerly Tower of North Cable Crossing, 1959
- Westerly Tower of South Cable Crossing, 1959

Also Form 524 has been submitted for:

- Lyle Gage, 1959
PHOTOGRAMMETRIC OFFICE REVIEW

T. 10849


CONTROL STATIONS


ALONGSHORE AREAS

(Nautical Chart Data)


PHYSICAL FEATURES


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

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


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

6157 1:40,000 Revised to March 1961

There are shoreline differences between these surveys, which should be considered in the future revision of chart 6157. 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. Accuracy of Results and Future Surveys

T-10547 through T-10657 have been compiled according to instructions and meet the adequacy and accuracy requirements for this type of survey.
Reviewed by:

[Signature]

V. J. Schaller

Approved by:

La Lande

Chief, Review & Drafting Section
Photogrammetry Division

[Signature]

E. Truettter

Chief, Operations Division

[Signature]

Maurice R. Pearson

Chief, Nautical Chart Division
<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 1962</td>
<td>6157</td>
<td>Mr. Bailey</td>
<td>Before, After, Verification and Review, Part C of C.</td>
</tr>
<tr>
<td>3/24/70</td>
<td>10551B</td>
<td>C. S. Bell</td>
<td>Before, After, Verification and Review, Consider 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.