
FORM 504

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey: Shoreline
Field No.: Ph-5807  Office No.: T-10876

LOCALITY

State: Oregon & Washington
General locality: Columbia River
Locality: Crow Butte

1959

CHIEF OF PARTY

Lorne G. Taylor, Photogrammetric Office

LIBRARY & ARCHIVES

DATE: May 1962
DESCRIPTIVE REPORT - DATA RECORD

T - 10876

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

Field Office (II): Umatilla, 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: Copy filed in Division of
  Letter 73/rrj dated 9 March 1959
  Letter 83/le dated 12 March 1959
  Letter 732/rrj dated 21 May 1959

Method of Compilation (III): Kelsh Stereoscopic Instrument
Manuscript Scale (III): 1:10,000 Viewing Scale
Stereoscopic Plotting Instrument Scale (III):
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): 23 June 1961

Publication Scale (IV): Publication date (IV):
Geographic Datum (III): N.A. 1927 Refer to datum pro-

Reference Station (III): ROCK (USE) 1942 file on manuscript

Lat.: 45° 50' 02.546"
Long.: 119° 51' 17.656"

Plane Coordinates (IV):
State: Oregon Zone: North
Y = 790,834.33
X = 2,164,433.69

Mean sea level except as follows:
Elevations shown as (2) refer to mean high water
Elevations shown as (3) refer to mean lower low water
I.e., mean high water or mean low water

U. S. Engineers Columbia River
Low-Water Profile

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)  Date: 4-13-59
W. V. Hull (Interior)  Date: Sept. 1959

Planetary contouring 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 4-13-59 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. J. Dempsey  Date: 8-1-59
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): C. 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 L. L. Graves  Date: 10-8-59
Contours  Date:

Manuscript delineated by (III): J. L. Harris (Scribing)  Date: 12-24-59
D. N. Williams (Stick-up)  1-28-60

Photogrammetric Office Review by (III): J. L. Harris (Rough Draft)  Date: 10-13-59
J. E. Deal (Advance Complete)  3-31-60

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-7629A</td>
<td>8-28-58</td>
<td>9:25</td>
<td>1:30,000 contact</td>
</tr>
<tr>
<td>thru 7631A</td>
<td></td>
<td></td>
<td>1:10,000 ratio</td>
</tr>
<tr>
<td>*58-S-7660</td>
<td>8-28-58</td>
<td>9:41</td>
<td>DO</td>
</tr>
</tbody>
</table>

*Used for field inspection only

The Dalles Dam
Stage of Tide (forebay)

159.8 ft above M.S.L.
Flow at Arlington Gage & Paterson Gage was 107,000 cfs.

TIDE (III)

Reference Station: Not Applicable.
Subordinate Station: Not Applicable.

Washington Office Review by (IV): Streifler
Final Drafting by (IV): Portland Photo 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): 7 statute miles
Shoreline (Less than 200 meters to opposite shore) (III): None
Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 3
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:
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 cronar 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 Manuscripts T-10876 thru T-10881
Project Ph-5807

2. Areal Field Inspection:

The area covered by this report includes a portion of the Columbia River from about two miles west of Castle, Oregon to a point about one mile west of Paterson, Washington. Interior coverage is about equally divided between the Oregon and Washington sides of the river.

There is no woodland cover within the area with the exception of a few trees along the banks of the Columbia River and along other drainage features. There are numerous truck farms on the flat irrigated lands along the Columbia River and the remainder of the area is grazing land.

The major transportation routes on the Oregon side are the Union Pacific Railroad and U. S. Highway 30. In the vicinity of Messner these routes turn inland and vehicular traffic can continue up the river on U. S. Highway 730 and Oregon State Highway 32. The major routes on the Washington side are the Spokane, Portland and Seattle Railway and Washington State Highway 8.

Boardman, Oregon is the only incorporated town in the area. Three unincorporated communities in the area are as follows:

Castle and Messner, Oregon
Whitcomb, Washington

Photo coverage was not complete for the interior on sheets 10878, 10879 and 10881. However, photo coverage did span both sides of the Columbia River and extended inland for sufficient distance to be considered adequate.

3. Horizontal Control:

(a) No supplemental control was established at this time.
(b) No datum adjustments were made in the field.
(c) Stations of other agencies were not recovered.
(d) The recovery done in 1958 met the minimum requirements in project instructions for the control of compilation.

One additional station was identified on the photographs at this time:

<table>
<thead>
<tr>
<th>Station</th>
<th>Photo</th>
<th>Sheet</th>
</tr>
</thead>
<tbody>
<tr>
<td>COYOTE, 1947</td>
<td>58-S-7611A</td>
<td>10878</td>
</tr>
</tbody>
</table>

(e) All Coast and Geodetic Survey stations were searched for.

The following station is listed as destroyed:

BOARDMAN (U.S.E.) 1942

4. **Vertical Control:**

Not applicable.

5. **Contours and Drainage:**

Contours are not applicable.

Drainage has been delineated on the photographs wherever it is obscure in interior regions that were accessible by truck, and along the Columbia River where visible from the skiff.

The main irrigation canal for the Oregon Land and Water Company has been indicated on the photographs. There is a myriad of small canals leading off the main canal in the vicinity of Boardman, Oregon. The larger and more prominent of these have been indicated on the photographs.

6. **Woodland Cover:**

There is no woodland cover within the area with the exception of a few trees along the banks of the Columbia River and along other drainage features.

7. **Shoreline and Alongshore Features:**

(a) through (c) - Water Levels and Shoreline

The level and shoreline of the river depend on the volume of runoff.
The photographs were taken on 28 August 1958 when the rate of flow at Paterson was 107,000 cfs. Since the adopted normal river level is that corresponding to a rate of flow of 110,000 cfs, the shoreline at the time of photography may be considered the same as that of normal river level.

Low gradient features such as mud flats, sand bars and shoals have been noted on the photographs. Foul areas have been sketched on the photographs.

(d) Bluffs and cliffs along both shores of the Columbia River have been noted on the photographs and estimated heights given.

(e) There are no docks, wharves or piers in the area. There is a graded beach, small boat launching site shown on photo 58-S-7629A. There is a stone jetty and small boat concrete launching ramp at Boardman. These features are shown on photo 58-S-7664A.

(f) There are no submarine cables in the area.

(g) There are no other shoreline structures in the area.

8. Offshore Features:

Estimated heights along with the time and date of inspection are noted on the photographs for all offshore rocks and sand bars. The limits of offshore foul areas and rapids have also been sketched on the photographs.

9. Landmarks and Aids:

(a) No landmarks for charts were selected at this time.

(b) No interior landmarks were selected. Buildings have been circled and classified on the photographs in accordance with Photogrammetric Instructions 54, dated 2 January 1958.

(c) There are no aeronautical aids in the area.

(d) There are twenty fixed aids to navigation in the area.

<table>
<thead>
<tr>
<th>Aid</th>
<th>Photograph</th>
<th>Sheet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canoe Encampment Rapids Range 2 Front Light 1959 (Permanent Structure)</td>
<td>58-S-7629A</td>
<td>10876</td>
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<tr>
<td>Canoe Encampment Rapids Range 2 Rear Light 1959 (Permanent Structure)</td>
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<td>&quot;</td>
</tr>
<tr>
<td>Alderdale Range 4 Front Light 1959 (Temporary Structure)</td>
<td>58-S-7627A</td>
<td>10877</td>
</tr>
<tr>
<td>Aid</td>
<td>Photograph</td>
<td>Sheet</td>
</tr>
<tr>
<td>------------------------------------------</td>
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<td>-------</td>
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<tr>
<td>Alderdale Range &amp; Rear Light 1959</td>
<td>58-S-7627A</td>
<td>10877</td>
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<tr>
<td>(Permanent Structure)</td>
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<tr>
<td>Canoe Encampment Rapids Range 1</td>
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<tr>
<td>Front Light 1959 (Temporary Structure)</td>
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<td></td>
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<tr>
<td>Canoe Encampment Rapids Range 1</td>
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<td></td>
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<tr>
<td>Rear Light 1959 (Temporary Structure)</td>
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<td></td>
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<tr>
<td>Mile 65 Range Front Light 1959</td>
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<td></td>
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<tr>
<td>(Permanent Structure)</td>
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<tr>
<td>(Temporary Structure)</td>
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<tr>
<td>Miller Drift Range 1 Front Light 1959</td>
<td>58-S-7663A</td>
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<tr>
<td>(Temporary Structure)</td>
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<td></td>
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<tr>
<td>Miller Drift Range 1 Rear Light 1959</td>
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<tr>
<td>(Temporary Structure)</td>
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<tr>
<td>Miller Drift Range 2 Front Light 1959</td>
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<td>10879</td>
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<td>(Temporary Structure)</td>
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<tr>
<td>Miller Drift Range 2 Rear Light 1959</td>
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<tr>
<td>(Temporary Structure)</td>
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<tr>
<td>Canoe Encampment Rapids Range 2.5</td>
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<td>Front Light 1959 (Temporary Structure)</td>
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<td></td>
<td></td>
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<tr>
<td>Rear Light 1959 (Temporary Structure)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Canoe Encampment Rapids Range 3 F</td>
<td></td>
<td></td>
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<td>Front Light 1959 (Permanent Structure)</td>
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<tr>
<td>Canoe Encampment Rapids Range 3</td>
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<tr>
<td>Rear Light 1959 (Temporary Structure)</td>
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<tr>
<td>Messner Range Front Light 1959</td>
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<td></td>
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<tr>
<td>Messner Range Rear Light 1959</td>
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</tr>
<tr>
<td>(Temporary Structure)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The elevation of some of the fixed aids have been determined by rough measurement with a handlevel. Those values have been noted on the photographs.

(e) There are two floating aids to navigation in the area:

<table>
<thead>
<tr>
<th>Aid</th>
<th>Photograph</th>
<th>Sheet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canoe Encampment Cut Buoy 28</td>
<td>58-S-7663A</td>
<td>10877</td>
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<tr>
<td>Canoe Encampment Cut Buoy 30</td>
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</tr>
</tbody>
</table>
10. **Boundaries, Monuments and Lines:**

The area falls entirely within Morrow County, Oregon and Klickitat and Benton Counties in Washington.

Boardman, Oregon is the only incorporated town in the area. The corporate limits are shown on photograph 58-S-7664A. Three unincorporated communities in the area are as follows: Castle and Messner in Oregon and Whitcomb in Washington.

The approximate boundary of the bombing and gunnery range near Castle, Oregon has been shown on photographs 58-S-7631A and 7629A. This conforms closely to the limits as posted on the ground.

Two sets of limits are shown on U.S.G.S. Blalock Island Quadrangle sheet. Those in red follow section lines as shown on a map at the control office at the bombing range. We believe these limits to be offset one mile to the south from the correct geographic position. The limits in blue are those believed to be correct.

11. **Other Control:**

Four photo-topo stations were selected and pricked on the photographs:

<table>
<thead>
<tr>
<th>Station</th>
<th>Photograph</th>
<th>Sheet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Point A 1959</td>
<td>58-S-7664A</td>
<td>10879</td>
</tr>
<tr>
<td>Point B 1959</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>Point C 1959</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>North Gable, Pump House at Cemetery, 1959</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
</tbody>
</table>

Azimuth points for all ranges were located by sextant fix. The fix for each azimuth point is recorded on the back of the photograph on which the corresponding range has been pricked.

12. **Other Interior Features:**

There is an air strip on the bombing and gunnery range near Castle. This strip is restricted to use by the U. S. Air Force and U. S. Navy. No beacons or other aids to air navigation are evident.

13. **Geographic Names:**

Geographic names are the subject of a special report: Geographic Names Report, Part 2, Columbia River, The Dalles to Umatilla, forwarded in June, 1959.
14. Special Reports and Supplemental Data:


Approved: 

[Signature]
Lorne G. Taylor  
CDR, C&GS  
Officer in Charge

Respectfully submitted:

[Signature]
K. William Jeffers  
LTJG, C&GS  
Unit Chief
PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10876

Project Ph-5807

Refer to the Photogrammetric Plot Report (Stereoplanigraph 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>DATUM CORRECTION</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<tbody>
<tr>
<td>ROCK (USE) 1942</td>
<td>Oreg.N. Pg. 74</td>
<td>1927</td>
<td>790.834.33</td>
<td>834.33 (4165.67)</td>
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<td>254.3 (1269.7)</td>
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<td>Sub Station &quot;A&quot;</td>
<td>&quot;</td>
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<td>2,164,433.69</td>
<td>4433.69 (566.31)</td>
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<td>1351.4 (172.6)</td>
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<tr>
<td>Sub Station &quot;B&quot;</td>
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<td>790,562.85</td>
<td>562.85 (4437.15)</td>
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<td>171.6 (1352.4)</td>
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<tr>
<td>CROW (USE) 1942</td>
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<td>2,164,190.92</td>
<td>4190.92 (809.08)</td>
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<td>1277.4 (246.6)</td>
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<tr>
<td>OASTLE (USE) 1942</td>
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<td>790,219.42</td>
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<td>66.9 (1457.1)</td>
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<td>2,164,491.29</td>
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<td>&quot; Pg. 73</td>
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<td>784,772.23</td>
<td>4772.23 (227.77)</td>
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<td>1454.6 (69.4)</td>
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</tbody>
</table>

1 FT. = .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-10885 which is included in the Descriptive Report for T-10870 (1959).

33. **Supplemental Data:**

   Refer to copy of U.S.G.S. Blalock Island, Oreg.-Wash. 30 minute quadrangle, Scale 1:125,000, published 1906 for U. S. Bombing Range boundary.

   Refer to county maps of Klickitat County and Benton County, Washington; and Morrow County, Oregon for county boundaries.

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:

Form 567 was submitted to Washington on 1 December 1959 for one fixed aid to navigation.

38. Control for Future Surveys:

One fixed aid to navigation located by Kelsh Instrument is listed under Item 49, Notes to the Hydrographer.

39. Junctions:

A satisfactory junction was made with T-10875 on the west and T-10877 on the east. 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" Ore.-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

Benton County

Castle
Castle Rock
*Columbia River
Columbia River Hwy.

Crow Butte

Klickitat County

Morrow County

Oregon

Spokane, Portland & Seattle R.R.

Union Pacific R.R.

Washington

* B.G.N. Decision

GEORGIIKA IVNIES SICTION
19 MAY 1960
PHOTOGRAMMETRIC OFFICE REVIEW

T-10876


CONTROL STATIONS


ALONGSHORE AREAS

(Nautical Chart Data)


PHYSICAL FEATURES


CULTURAL FEATURES


BOUNDARIES

31. Boundary lines  X  32. Public land lines  None

MISCELLANEOUS


40. ________________________________  
  Reviewer

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.

43. Remarks:

Compiler  
Supervisor

Reviewer  
Supervisor

COMM-CC 34529
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
ELALOCK IS., ORE.-WASH. 1:125,000, 1906, U.S. Geological Survey
UMATILLA, ORE.-WASH. 1:125,000, 1908, 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:

[Signature]

Jesse J. Streifler

Approved by:

[Signature]

Le Lande
Chief, Review & Drafting Sec.
Photogrammetry Division

[Signature]

Maurice J. Saulson
Chief, Nautical Chart Division

[Signature]

W. L. O'Leary 4/28/62
Chief, Photogrammetry Div.

G.L. Mack 6/19/62
Chief, Operations Division
# Nautical Charts Branch

**Survey No.** T-10876

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>6/24/76</td>
<td>6161</td>
<td>D. Cordts</td>
<td>Superseded July T-13215, 13216, 12150</td>
</tr>
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<td>Before After Verification and Review</td>
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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.