U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey: Photographic
Field No.: T-3660
Office No.: T-3661

LOCALITY
State: OREGON & WASHINGTON
Columbia County, Oregon
Clark County, Washington
Locality: Campbell Lake, Lake River

Date of Photos: 1945
1947

CHIEF OF PARTY
R. A. Earle

LIBRARY & ARCHIVES
DATE: Dec. 11, 1947
DATA RECORD

T - 3660

Quadrangle (II): CAMPBELL LAKE, Clark Co. Wash. Project No. (II): CS-322
(3 minute)

Field Office: Portland, Oregon Chief of Party: R. A. Earle


Instructions dated (III): July 12, 1945
Supplemental Instructions: Aug. 29, Sept. 10, Oct. 25, Nov. 30, and Dec. 6, 1945

Completed survey received in office: 26 Feb. 1947

Reported to Nautical Chart Section:

Reviewed: 1 July, 1947 Applied to chart No. Data:

Redrafting Completed: July 47
Registered: Nov. Oct. 1947 Published: 1947

Compilation Scale: 1:8000 Published Scale: 1:3600

Scale Factor (III): None

Geographic Datum (III): N.A. 1927 Datum Plane (III): See below*

Reference Station (III): LYONS BARN UPSTREAM VENT, 1937 r1945

Lat.: 45° 16' 37.643" (1162.3m) Long.: 122° 46' 37.596" (812.2m) Adjusted X
Unadjusted

State Plane Coordinates (VI):

\[ X = \quad Y = \]

Military Grid Zone (VI)

*(M.H.W. = 6.29 ft. above Mean Sea Level() M.L.W. = 3.29 ft. above Mean Sea Level).
All elevations are on the Standard 1929 general adjustment of leveling in the U.S.A.
STATISTICS (III)

Land Area (Sq. Statute Miles): 6.0

Shoreline (More than 200 meters to opposite shore): 9.0 statute miles

Shoreline (Less than 200 meters to opposite shore): 11.0 statute miles

Number of Recoverable Topographic Stations established: 3
(all fixed aids to navigation)

Number of Temporary Hydrographic Stations located by radial
plot: None

Leveling (to control contours) - miles:

Roman numerals indicate whether the item is to be entered
by, (II) Field Party, (III) Compilation Party, or, (VI) the
Washington Office.

When entering names of personnel on this record give the
surname and initials (not initials only).

Remarks:

Field Inspection by: W. J. Bushnell, Photo. Aid date: April, 1946

Shoreline Inspection by: J.C. LaJoye, Prin. Photo. Aid date: May, 1946

Recovery of Horizontal Control by: J. C. LaJoye date: June, 1946

Recovery of Vertical Control by: None

Investigation of Geographic Names and
Civil Boundaries: L. E. Ervast, Photo. Aid date: July, 1946
RECORD SHEET

GENERAL LOCALITY: Columbia River, Oreg.-Wash.
LOCALITY: Campbell Lake, Washington  
PHOTOS ORDERED: Aug., 1945  REC'D: 1-21-46  
PHOTOS ORDERED: Aug. 1946  REC'D: 7-16-46  

CONTROL:
COMPUTED: Bunce  VERIFIED: Bunce  
PLOTTED: Bunce  VERIFIED: Letson  

PHOTO PREPARATION:
CONTROL: Harris, Sherwood  
AZIMUTHS: Davidson  
PASS POINTS: Davidson, Bunce  Bunce  
TEMPLATES: Flood  VERIFIED: Harris  
RADIAL PLOT: Harris  
PLOTTED BY: Davidson  DATE: 11-18-46  
VERIFIED: Deal  DATE: 11-19-46  

COMPILATION:
DETAIL POINTS: Turner  DATE: 11-21-46  
DETAIL BY: Turner  DATE: 1-10-47  
VERIFIED BY: Davidson  DATE: 1-21-47  

DATE OF PHOTOS: See reverse side
TIME OF PHOTOS: 
STAGE OF TIDE: 

COMPARISON WITH PREVIOUS SURVEYS: TOPO., HYDRO., AND CHARTS:
Due to a scale difference only a visual comparison was made with the 1938 St. Helens, Oreg.-Wash. 15 min. quadrangle, Scale: 1:62500. The planimetry which is common to the map manuscript and quadrangle map is in general agreement. Some of the ponds on Sauvie Island, which are shown as intermittent ponds on the quadrangle map, are flooded at the water level used for Project CS-322. (over)

REMARKS:
All corrections and additions which were found during the field edit were applied to the map manuscript and a final compilation office review was then made.

FORWARDED TO: Washington Office  DATE: 22 February 1947
R. A. Earl
Chief of Party

Div. of Photogrammetry  
Graphic Compilation Sect.
COMPARISONS (cont'd.)

Comparison was made with black line prints on clear acetate of Topographic Surveys No's. 6571a and 6571b of October, 1937, scale, 1:10000, enlarged to a scale of 1:8000. The west shoreline of the Columbia River, between Lat. 45° 46' 45" and 45° 47' 30", has eroded from 0 to 50 meters. The east shoreline of the Columbia River has eroded between the south entrance to Bachelor Island Slough and Dike No. 216. The east shoreline of the Columbia River, from the south entrance to Bachelor Island Slough to the north limits of the map manuscript, has been shown as indefinite on the map manuscript. The north tip of an island at Lat. 45° 45' 10" has eroded approximately 70 meters since the topographic surveys were made.

Comparison was made with Nautical Chart No. 6154, Scale: 1:40000 by use of the vertical projector. In general the shoreline of the Columbia River as shown on the map manuscript and chart is in agreement. Inshore from the Columbia River are numerous places where the planimetry on the chart does not agree with that shown on the map manuscript.

PHOTOGRAPH DATA

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<th>Stage of Tide</th>
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<td>11-21-45</td>
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DATA RECORD
T-8661

Quadrangle (II): LAKE RIVER, CLARK CO., WASH.  Project No. (II): CS-322
(3 minute)

Field Office: Portland, Oregon  Chief of Party: R. A. Earle


Instructions dated (II III): July 12, 1945  Copy filed in Descriptive
Supplemental Instructions: Aug. 29, Sept. 10,  Report No. T---
Oct. 25, Nov. 30 and Dec. 6, 1945 (VI)

Completed survey received in office: 26 Feb. 1947

Reported to Nautical Chart Section:

Reviewed: 30 April 1947  Applied to chart No. Date:

Redrafting Completed: 10 June, 1947

Registered: 8 Nov. 1947  Published: 1947

Compilation Scale: 1:8000  Published Scale: 1:3600

Scale Factor (III): None

Geographic Datum (III): N.A. 1927  Datum Plane (III): See below*

Reference Station (III): GRAIL (WASH.), 1946**

Lat.: 45° 45' 48.556" (1375.6m)  Long.: 122° 44' 15.336" (337.1m) Adjusted
Unadjusted X

** Located in the area of Map Manuscript No. T-8657.

State Plane Coordinates (VI):

\[
X = \quad Y =
\]

Military Grid Zone (VI)

* (M.H.W. = 6.29 ft. above Mean Sea Level) (M.L.W. = 1.29 ft. above Mean Sea Level)

All elevations are on the Standard 1929 general adjustment of leveling in the
U.S.A.
PHOTOGRAPHS (III)

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<tr>
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<td>&quot;</td>
<td>4.9 ft. &quot; &quot;</td>
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</table>

Daily readings of the U.S. Engineers tide gauge located at Government Moorings on the west shore of the Willamette River just south of St. Johns Bridge. The 0:00 of the gauge is M.L.W., Columbia River which is 1:29 ft. above Mean Sea Level.

Tide from (III): Spring Range:

Camera: (Kind or source) K 17, focal length 12 inches

Field Inspection by: See remarks page 3 date:

Field Edit by: F. H. Elrod, Prin. Photo. Aid date: Jan., 1947

Date of Mean High-Water Line Location (III): Nov. 29, 1945
Note: According to the supplemental instructions dated Sept. 10, 1945, a high-water line of 5.0 ft. above Mean Low Water is to be shown on the map manuscripts. Photographs made on Nov. 21, 1945, were taken when the water level was at 4.9 ft. above M.L.W.

Projection and Grids ruled by (III) Washington Office date: June, 1946
" " " checked by: Washington Office date: June, 1946
Control plotted by: Eda H. Bunce date: Oct., 1946
Control checked by: Helen L. Letson date: Oct., 1946
Radial Plot by: James L. Harris, R. A. Davidson date: Nov. 19, 1946

Detailed by: Marie B. Elrod date: Dec. 12, 1946

Reviewed in compilation office by: Roe H. Barron date: Dec. 30, 1946
Corrections and changes after field edit by: Roe H. Barron date: Feb. 19, 1947
Review after changes due to field edit by: R.A. Davidson date: Feb. 20, 1947
Elevations on Field Edit Sheet checked by: Charles Hanavich, Topo. Engr. date: Jan., 1946
STATISTICS (III)

Land Area (Sq. Statute Miles): 2.5

Shoreline (More than 200 meters to opposite shore): 2.5 statute miles

Shoreline (Less than 200 meters to opposite shore): 6.0 statute miles

Number of Recoverable Topographic Stations established: 2

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles:

Roman numerals indicate whether the item is to be entered by, (II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname and initials (not initials only).

Remarks:

Field Inspection by: W.J. Bushnell, Photo. Aid date: April, 1946

Shoreline Inspection by: J. C. LaJoye, Prin. Photo. Aid date: April, 1946

Recovery of Horizontal Control by: J. C. LaJoye, date: June, 1946

Recovery of Vertical Control by: J. H. Winniford, Photo. Aid date: Oct., 1945

Investigation of Geographic Names and Civil Boundaries by: L. E. Erwast, Photo. Aid date: July, 1946
RECORD SHEET

GENERAL LOCALITY...Clark County, Washington
LOCALITY..............Lake River
PHOTOS ORDERED...Aug. 1945...REC'D...9-24-45
PHOTO PREPARATION:
CONTROL....Bunce...VERIFIED...Letson
PHOTO PREPARATION:
CONTROL....Harris...Sherwood
PHOTO PREPARATION:
CONTROL....Harris...Sherwood
AZIMUTHS...Davidson
PASS POINTS...Harris, Bunce, Elrod
TEMPLETS...Bunce...VERIFIED...Davidson
RADIAL PLOT: Harris,
PLOTTED BY...Davidson...DATE...11-13-46
VERIFIED...Deal...DATE...11-19-46
COMPIIATION:
DETAIL POINTS...Elrod...DATE...11-20-46
DETAIL BY...Elrod...DATE...12-12-46
VERIFIED...R.H...Barren DATE...12-30-46

COMPARISON WITH PREVIOUS SURVEYS; TOPO., HYDRO., AND CHARTS:
Due to a scale difference only a visual comparison was made with the La Center,
Washington, U.S.G.S. 15 min. quadrangle Scale: 1:62500. The planimetry which is
common to the map manuscript and quadrangle map is in general agreement. Com-
parison was made with Nautical Chart No. 6154, Scale: 1:40000 by use of the ver-
tical projector. The location of Lake River, between Lat. 45° 45' 00" and Lat.

REMARKS:
All corrections and additions which were found during the field edit were applied
to the map manuscript and a final office review was then made.

FORWARDED TO...Washington Office...DATE...20 February 1947

(over)

R. A. Earle
Chief of Party

Div. of Photogrammetry
Graphic Compilation Sect.

SHEET NO...T-8661
PROJECT NO...GS-322
SCALE...1:8000

Joins T-8667...Ck....
Joins T-8665...Ck....
COMPARISONS (cont'd.)

45° 45' 50", as shown on the nautical chart, does not agree with that shown on the map manuscript. Elsewhere the planimetry which is common to the map manuscript and the nautical chart is in general agreement.

PHOTOGRAPH DATA

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<td>3580 to 3582 &quot;</td>
<td>7-27-45</td>
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<td>&quot;</td>
<td>4.9 ft. &quot; &quot;</td>
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FIELD INSPECTION REPORT
T-8660 and T-8661
Project CS-322

1 to 25: All the information that is applicable to these side headings is given in the "Field Inspection Report, Project CS-322, Area of the Fourth Radar Plot", which was enclosed with the Descriptive Report for Quadrangles T-8669 and T-8670. This Descriptive Report has been submitted.

Approved by:  Respectfully submitted:

Robert A. Earle  Charles Hanavich
Chief of Party  Topographic Engineer
Amendment to File Data

Since project CS-322 was reviewed and registered, it was decided that a Completion Report for each project would be written and filed in the Bureau of Archives. This Completion Report should include all special reports, correspondence of probable future interest or importance, a project layout, a photo index, and a copy of the initial and supplementary project instructions.

A special file has been set up in the library for Division of Photogrammetry projects. The Completion Report and other special reports will be filed under the project number, and these will be arranged in numerical order.

The following reports and records for project CS-322 are now filed in the Bureau Archives, rather than according to the Red notes in the Descriptive Report:

A. Special Reports:
   1. Investigation of Boundary Monuments and Land Lines for Radial Plots 1, 2, 3, and 4
   2. Radial Plots 1, 2, 3, and 4
   3. Legal descriptions of boundaries
   4. Field Inspection for plots 1, 2, 3, and 4

Access No. CS-322 Dept. 1

B. Computations: Triangulation and Traverse

Access No. 943/072 G-6785

C. Field records:
   1. Horizontal Angles (form 250) 12 vol.
   2. Traverse Measurements (form 598) 9 vol.
   3. Descriptions (form 525) and recoveries (form 526)
   4. Plotting cards (form M-982-1) for tri. and trav.
   5. Recoverable Topographic stations (form 524)

Access No. 943/09 G-7082

D. Recovery of bench marks (form 685)

Access No. 943/0A G-6786

E. Supplemental data: maps, plans

These were transferred to the Map Section (Mr. Stanley, Chief), Division of Charts, to be selectively filed or discarded.

LTS

January 1951
COMPILATION REPORT
Map Manuscripts T-3660 and T-3661
Project GS-322

26. Control:

At the time this project was started there were forty-six horizontal control stations in the area of these two map manuscripts. Five were recovered and four of these were identified for use in the radial plot.

In an effort to make available for radial plot purposes some of the existing horizontal control stations which had been found destroyed, the field inspection unit doubtfully identified on the photographs, five triangulation stations which were dolphins, formerly located at the outer ends of five existing dikes. These stations are in the area of Map Manuscript T-3660 and fall along the east shoreline of the Columbia River. In general they were held during the running of the radial plot and during the establishment of minor pass points. They have been plotted on the map manuscript and appropriate notes have been lettered nearby relative to their use.

In addition the field unit established one temporary triangulation station in the area of Map Manuscript T-3661.

A complete tabulation of the horizontal control stations which were originally in the area of these two map manuscripts in attached to the "Field Inspection Report, Project GS-322, Area of the Fourth Radial Plot". This report was included with the descriptive report for Map Manuscripts T-3669 and T-3670 which was forwarded on 8 January 1947. Filed in Div. Photogrammetry General files under "Special Reports".

The supplemental horizontal control station which was established in this area is listed in a tabulation attached to a special report, "Third-Order Triangulation and Traverse, Project GS-322, Area of the Fourth Radial Plot", which has been forwarded. Filed in Library under "G-6785".

27. Radial Plot:

The facts concerning the radial plot for the area of these two map manuscripts have been fully covered in the "Descriptive Report, Fourth Radial Plot, Project GS-322". This radial plot report was included with the descriptive report for Map Manuscripts No's. T-3669 and T-3670, which was submitted to the Washington Office on 8 January 1947. Filed in Div. Photogrammetry General files under "Special Reports".

28. Detailing:

Compilation was done in accordance with instructions for Project GS-322 and special instructions applicable to planimetric mapping.
The photography was adequate. The re-flight photographs made on 21 November 1945, were helpful in determining the high-water line and other shoreline details. They were not satisfactory for accurately determining the detail falling in the outer limits of the photographs or for orientation and use in the radial plotting of the minor pass points. In some cases it was difficult to interpret, from the ratio print, the correct shape and size of buildings. This was attributed to the loss of sharpness when the contact prints were enlarged.

When any item relative to the field inspection data was doubtful, it could be clarified by consultation with the field men who had done the inspection work. It was, therefore, unnecessary to make discrepancy overlays for the field edit work.

The classification symbols for tree or brush areas are placed on the inside of the curved line which denotes the limits of said areas. These curved lines and the letter symbols are in green acid ink.

All boundary and land claim lines are shown by appropriate symbols in red acid ink. A legend shown in the margin of each map manuscript identifies these lines.

Pertinent notes, relative to various items, have been lettered in the margins of the map manuscripts.

29. Supplemental Data:

There was no supplemental data used in the area of these two map manuscripts.

30. Mean High-Water Line:

The mean high-water line was detailed from information submitted by the field parties and from stereoscopic examination of the photographs. Most of the shoreline data is shown on field photographs taken on 21 November 1945. The mean high-water line, bordering firm ground, is shown by a continuous heavy-weight black acid ink line, at a plane five feet above the U. S. Engineers low-water datum, which is 1.29 feet above the mean sea level. The mean high-water line bordering marsh or mud, is shown with a continuous light-weight black acid ink line at the same plane.

31. Low-Water and Shoal Lines:

The field unit did not indicate any low-water lines within the limits of these two map manuscripts. Approximate shoal areas at Henrici Bar and at the south tip of Bachelor Island, in the Columbia River, have been shown as indicated by the field unit.

32. Details Offshore from the Mean High-Water Line:

There are no details offshore from the mean high-water line.
33. **Wharves and Shoreline Structures:**

Piers, wharves, dolphins, dikes, etc., have been shown.

34. **Landmarks and Aids to Navigation:**

In the area of Map Manuscript T-8660 copies of Forms 567 are being submitted for the following aids to navigation:

- BACHELOR POINT LIGHT
- BACHELOR DIKE 21 LIGHT
- PALES LIGHT

35. **Hydrographic Control:**

No additional hydrographic stations were established along the Columbia River as a sufficient number of existing horizontal control stations and fixed aids to navigation had been recovered or located to comply with the instructions. Two recoverable topographic stations were established along Lake River for use during future hydrographic surveys.

36. **Landing Fields and Aeronautical Aids:**

There are no landing fields or aeronautical aids within the limits of these two map manuscripts.

37. **Geographic Names:**

Only undisputed geographic names are shown on the map manuscripts. Geographic names are the subject of a special report, "Investigation of Geographic Names, Project CS-322, Area of the Fourth Radial Plot", which was forwarded on 8 January 1947.

38. **Recoverable Topographic Stations:**

In the area of Map Manuscript T-8660 copies of Forms 524 are being submitted for the following:

- BACHELOR POINT LIGHT
- BACHELOR DIKE 21 LIGHT
- PALES LIGHT

In the area of Map Manuscript T-8661 copies of Forms 524 are being submitted for the following:

- SOUTH GABLE BARN, 1946
- SOUTH CUPOLA OF BARN, 1946
- T 3-4N R 1E Section Corner 4-5-32-33, 1946 East of mapped area
- T 3-4N R 1E Section Corner 4-6-31-32, 1946

39. **Junctions:**

Complete and satisfactory junctions have been made between Map Manuscripts T-8660 and T-8661, and with adjoining map manuscripts.

40. **Bench Marks:**

Bench marks have been detailed as identified by the field inspection units. Each bench mark is indicated by a black acid ink cross with...
Special Report: Investigation of Boundary Monuments & Land Lines

Area of the Fourth Section 1912

Filed in our Photographic General Files, under "Sp. 1 Rep. 104"
the name and elevation to the nearest 1/10 foot lettered nearby.

41. Donation Land Claim and Section Lines:

Donation land claim and section lines were located on ozalid prints of the map manuscripts after the initial compilation had been completed. These lines, with pertinent explanatory notes, were placed on the prints in red and purple ink respectively, by the field party, and were then traced on the map manuscripts by the compilers. The ozalid prints containing these lines are being forwarded.

44. Comparison with Existing Topographic Surveys:

See record sheet which accompanies each map manuscript.

45. Comparison with Nautical Charts:

See record sheet which accompanies each map manuscript.

Approved and forwarded:

Robert A. Earle
Chief of Party

Respectfully submitted:
19 February 1947

J. Edward Deal Jr.
Photogrammetric Engr.
FIELD EDIT REPORT
Quadrangles T-8660 and T-8661
Project CS-322

46. Methods:

These map manuscripts were field edited in accordance with the Field Edit Instructions dated 24 August 1945. All corrections and additions have been made accurately on the field edit prints in colored ink, or in the place where a correction or addition is to be made has been indicated by a note which refers to a field photograph. All features which are to be deleted have been crossed out in colored ink.

New buildings were located either by pacing or taping and are shown on the field edit prints. A legend on each of these prints will furnish a key to all the symbols and to the different colored inks used.

47. Adequacy of the Compilation:

The plenimetry as delineated on the map manuscripts may be considered as complete and adequate with respect to the corresponding ground detail. Except for the deletions, corrections, additions, and notations made on the field edit prints, it is accurate, also in regard to relative position.

Any omissions or drafting of detail that seemed to be questionable was called to the attention of the Compilation Office by notes. Several recently constructed drainage ditches were located by field measurements on the field photographs or the ozalid prints. The names of roads, which were added, were obtained from posted signs or other local official sources. Other minor changes, omissions and corrections were noted and corrected.

All offshore and shoreline features were checked. Inland the numerous wooded marsh, marsh, pond, and lake areas appear to have been delineated correctly. It is to be noted that the low land areas unprotected by dikes and terrain relief become inundated when the sloughs, ponds, etc., overflow during the annual freshets. Areas enclosed by dikes are not subject to these severe flood conditions as the drainage is controlled by pumping stations and dredged ditches. For additional information refer to side headings 1 and 7 of the "Field Inspection Report, Area of the Fourth Radial Plot, Project CS-322".

In accordance with the field edit instructions, these map manuscripts were examined for completeness and accuracy in regard to geographic names, boundaries, public land lines, and detail by Mr. Wm. Norris, District Engineer for the Sauvie Island Soil Conservation District, in T-8660 and by Mr. Bernard Norris, County Surveyor of Clark County, Vancouver, Washington, in T-8661. The geographic names in this area have been reviewed by Mr. Lewis A. McArthur, Collaborator for the U. S. Coast & Geodetic Survey.
48. Accuracy Tests:

No horizontal accuracy tests were run in this area. For map accuracy tests near the area of these map manuscripts refer to the field edit reports for T-3651, T-3654, and T-3655.

49. Bench Mark Elevations:

No vertical control was recovered in T-3660. The elevations of the bench marks in T-3667 have been checked.

50. Donation Land Claims and Section Lines:

Donation land claims and section lines were located on additional ozalid prints of the map manuscripts by a special field party after the initial compilation had been completed. These lines were indicated in red and purple ink, respectively, and supplemented, if necessary, by explanatory notes. These additional ozalid prints will be submitted with the field edit sheets.

51. Geographic Names: (Not listed in Geographic Names Report)

McNARY LAKE: In T-3660 along the west side.

A field investigation made during the field edit of this sheet identifies this geographic name as being well established in local usage. The following individuals also have verified the usage of this name:

Mr. Wm. Norris, District Engineer
U. S. Soil Conservation
Portland, Oregon
(In charge of soil conservation program on Sauvie Island).

Mr. Charles Dadyley, Multnomah Co. Employee
Route 13, Portland, Oregon
(Resident of vicinity of McNary Lake for 16 years).

Mr. George A. Johnson, Farmer
Route 13, Portland, Oregon
(Resident of vicinity of McNary Lake for 33 years).

Field Edit reviewed by: Charles Hanavich,
Topographic Engineer

Field Edit by: F. H. Elrod,
Prin. Phot. Aid

Approved by: R. A. Earle,
Chief of Party
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<th>C</th>
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Two names on area but not shown:

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Signed: L. Heck 12/2/47

M 234
NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Portland, Oregon
16 February 1947

The following fixed aids to navigation which have not been inspected from seaward to determine their value as landmarks, be charted on the charts indicated.

The positions given have been checked after listing by

R. A. Earle
Chief of Party.

<table>
<thead>
<tr>
<th>State</th>
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<tbody>
<tr>
<td>Charting Name</td>
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<tr>
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<tr>
<td>LIGHT</td>
<td>Fales Light Fl. W., 4 Sec.</td>
</tr>
</tbody>
</table>

Note: The geographic positions of the above non-floating aids to navigation are in general agreement with the charted positions shown on Chart #6154.

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.
Division of Photogrammetry

Review Report of

Planimetric Map Manuscript T-8660

Subject numbers not used in this report have been adequately covered in other parts of the descriptive report.


The offshore limits of marsh were changed from a dashed line to a thin solid line.

31. Low-Water and Shoal Lines.

Shoal lines were changed from dotted lines to thin dashed lines.

41. Donation Land Claim and Section Lines.

The Special Report, Investigation of Boundary Monuments and Lines--Area of the Fourth Radial Plot listed no Donation Land claims for this map manuscript. This Report has been corrected to agree with the map manuscript and the land line ozalid print submitted by the Field Office, both of which have eight claims.

The eastern boundary of the M.E. Hathaway tract has been moved to the west. This adjustment was the only one necessary to verify all the land lines on this map manuscript.

44. Comparison with Existing Topographic Surveys.

Comparisons were made with the following (A) Previous Surveys and (B) Quadrangle, and the planimetry in all common areas is superseded by T-8660.

A. Previous Surveys
   T-1542  1:10,000  1882
   T-1562  1:20,000  1884
   T-6571  1:10,000  1937

B. Quadrangle
   U.S.E. St.Helens, Ore.-Wash. 15' 1:62,500

An adequate description of these comparisons appears on the Record Sheet attached to this Descriptive Report.
45. Comparison with Nautical Charts.

6154  1:40,000  1945

This map manuscript has not been applied to nautical charts as of the date of this report.

Reviewed by: B. Thomas Hynson
Photogrammetrist 1 July 1947

Reviewed under direction of: S. V. Griffith
Chief, Review Section

APPROVED BY:

Technical Assistant to the Chief, Div. of Photogrammetry

K. T. Adams
Chief, Div. of Photogrammetry

Chief, Nautical Chart Br.
Division of Charts

C. T. Green
Chief, Div. of Coastal Surveys
Subject numbers not used in this report have been adequately covered in other parts of the descriptive report.


The field unit established one temporary triangulation station in the area of this survey. This station, having served its purpose, has been deleted from the manuscript.


Corrections made to the manuscript during review are shown in brown acid ink.

According to the project layout, detailing on this map is confined to the area covered by the westerly one minute, i.e. 122°44' to 122°45'. However, Donation Land Claim lines extending east of this minute have been completed in order to show the complete Land Claim Scheme.

The offshore limits of wooded marsh have been changed from a dashed line to a thin solid line.

29. Supplemental Data.

The Clark County, Wash. Road Map was used to verify road classifications submitted by the field unit.

41. Donation Land Claim and Section Lines.

Two section corners, lying east of the detailed area of this map, were omitted by the compiler. These have been added by the review to establish complete section line coverage for this manuscript.

Corrections were made to the "Campbell and Law" Donation Land Claims. Four claims shown to the west of the Willamette Meridian were omitted on the eastern side of that line. These claims have been added. John Stanley is shown as Joseph Stanley on the G.L.O. plats.

An ozalid indicating the above corrections and additions has been sent to the Portland Office.
44. Comparison with Existing Topographic Surveys.

A. Comparison was made with the following previous surveys and the planimetry in all common areas is superseded by T-8661:

T-1542  1:10,000  1882
T-1562  1:20,000  1884

B. Comparison was made with the following quadrangles and the planimetry in all common areas is superseded by T-8661:

U.S.G.S. La Center, Wash., 15', 1:62,500
U.S.E.  La Center, Wash., 15', 1:62,500

45. Comparison with Nautical Charts.

Comparison was made with nautical chart No. 6154, 1:40,000, 1945. Comments shown on the Record Sheet are adequate.

This manuscript has not been applied to nautical charts as of the date of this review.

Reviewed by:  Reviewed under direction of:

Harold R. Brooks  S. V. Griffith
Photogrammetrist  4-30-47  Chief, Review Section

APPROVED BY:

Technical Assistant to the Chief, Div. of Photogrammetry

Chief, Nautical Chart Branch Division of Charts

Chief, Div. of Photogrammetry  Chief, Div. of Coastal Surveys
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
c/o Swan Island Postal Station
Portland 12, Oregon

To: Chief, Division of Photogrammetry
U. S. Coast & Geodetic Survey
Washington 25, D. C.

From: Lt. Comdr. R. A. Earle

Subject: Review of Map Manuscript T-8661

Reference: Your Letter, 78-RCR, dated 12 May 1947

The office has investigated and verified all omissions and changes of land lines found during review in the Washington Office. Additional data found during the investigation of land lines and pertinent notes relative to questionable items, are shown on the ozalid print in green crayon pencil.

Sketches of parts of the G. I. O. plats, which are in the record file in Clark County, Washington, are shown on the reverse side of the ozalid print on which the land lines were originally drawn by the field unit.

The two ozalid prints which were forwarded are respectfully returned herewith.

Filed with manuscript of map.

R. A. Earle
Chief of Party

RAE/grw
### NAUTICAL CHARTS BRANCH

**SURVEY NO. 7860, 8661**

**Record of Application to Charts**

<table>
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<th>DATE</th>
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<td>6±57</td>
<td>Pierpont</td>
<td>Before After Verification and Review</td>
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Before After Verification and Review

Before After Verification and Review

Before After Verification and Review

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Before After Verification and Review

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.