# DESCRIPTIVE REPORT

**Type of Survey:** Planimetric Air Photographic

**Field No.:** T-8656 & T-8657

**Office No.:** T-8657

## LOCALITY

**State:** OREGON AND WASHINGTON

**Columbia County, Oregon**

**General locality:** Clark County, Washington

**Locality:** Bachelor Island & Ridgefield, Wash.

**Date of Photos:** 1945

1947

**CHIEF OF PARTY:**

R. A. Earle

**LIBRARY & ARCHIVES DATE:**

**Dec 1947**
DATA RECORD

T- 8656

Quadrangle (II): BACHELOR ISLAND  
Project No. (II): CS-322

(3 minute)

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

Compilation Office: Portland, Ore.  
Chief of Party: R. A. Earle

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

Copy filed in Descriptive
Report No. T-(VI)  
Div. Photogrammetry Office files

Completed survey received in office: 3 April, 1946

Reported to Nautical Chart Section:

Reviewed: 26 June, 1947  
Applied to chart No.  
Date:

Redrafting Completed: 11 July, 1947

Registered: 21 Oct., 1947  
Published: 1947

Compilation Scale: 1:8000  
Published Scale: 1:9600

Scale Factor (III): None

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

Reference Station (III): DOS (OREGON) 1937 +1946

Lat.: 45° 48' 25.504" (787.4m)  
Long.: 122° 47' 46.488" (1003.3m) Adjusted X  
Unadjusted

State Plane Coordinates (VI):

X =  
Y =

Military Grid Zone (VI)
*(H.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.
### PHOTORES (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>638 to 641</td>
<td>Inc. 6-30-45</td>
<td>14:45</td>
<td>1:17000</td>
<td>11.9 ft. above M.L.W.</td>
</tr>
<tr>
<td>3541 to 3545</td>
<td>7-21-45</td>
<td>13:45</td>
<td>1:8000 ratio</td>
<td>4.9 ft.</td>
</tr>
<tr>
<td>3555 to 3557</td>
<td>7-21-45</td>
<td>14:15</td>
<td>&quot;</td>
<td>4.9 ft.</td>
</tr>
</tbody>
</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 O Oh of the gauge is M.L.W., Columbia River which is 1.29 ft. above Mean Sea Level.

**Tide from (III):**

**Mean Range:**

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

**Field Inspection by:** See remarks, page 3

**Field Edit by:** F. H. Eìrod, Prin. Photo. Aid

**Date of Mean High-Water Line Location (III):** Nov. 27, 1945

**Date of Compilation Office:** July, 1947

**Check by:**

- Washington Office: July, 1946
- Eda Bunce: October, 1946
- Roy A. Davidson: October, 1946
- James L. Harris & Roy A. Davidson: November, 18, 1946
- Marie B. Eìrod: Feb. 10, 1947

**Reviewed in compilation office by:** Roy A. Davidson

**Corrected by:** Marie B. Eìrod

**Reviewed after changes due to field edit by:** R.H. Barron

**Elevations on Field Edit Sheet checked by:** Charles Banovich, Topo. Engineer

**Date:**
- 2 Feb. 1947
- 24 Feb. 1947
- February, 1947
STATISTICS (III)

Land Area (Sq. Statute Miles): 4.0

Shoreline (More than 200 meters to opposite shore): 12.2 statute miles

Shoreline (Less than 200 meters to opposite shore): 18.0 statute miles

Number of Recoverable Topographic Stations established: 4
(3 fixed aids to navigation and 1 topographic station).

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, Phot. Aid date: May, 1946
Shoreline Inspection by: J. C. LaJoye, Prin. Photo. Aid date: May, 1946
Recovery of Horizontal Control by: J. C. LaJoye date: Aug., 1946
Recovery of Vertical Control by: J. H. Winniford, Photo. Aid date: Oct., 1946
Investigation of Geographic Names and Civil Boundaries by: L. E. Ervast, Photo. Aid date: July, 1946
RECORD SHEET

GENERAL LOCALITY: Clark County, Washington
LOCALLY: Bachelor Island

PHOTOS ORDERED: Aug. 1945; REC'D 1-27-46
PHOTOS ORDERED: June 1946; REC'D 7-16-46

CONTROL:
COMPUTED: Bunce
VERIFIED: Harris
PLOTTED: Bunce
VERIFIED: Davidson

PHOTO PREPARATION:
CONTROL: Harris

AZIMUTHS: Davidson

PASS POINTS: Bunce, Harris
Elrod

TEMPLATES: Davidson, VERIFIED: Harris

RAdIAL PLOT: Davidson
PLOTTED BY: Harris
DATE: 1-18-46
VERIFIED: Deal
DATE: 1-19-46

COMPIlATION:
DETAIL POINTS: Elrod
DATE: 1-15-47
DETAIL BY: Elrod
DATE: 2-10-47
VERIFIED: Davidson
DATE: 2-12-47

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 USGS St.
Helens, Ore., Wash., 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 black line prints on clear acetate of Topographic Surveys
Nos. 6570b and 6571a of October 1937, Scale 1:10000, enlarged to a scale of

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: 3 March 1947

R. A. Earle
Chief of Party
COMPARISONS (cont'd)

1:8000. The following differences were noted:

The west shoreline of the Columbia River between Lat. 45° 49' 30" and 45° 50' 30"
has built up since the topographic surveys were made.

A shoal or low-water area north of Bachelor Island Shoal, shown on the topographic
surveys, could not be determined from the photographs available for this project.

The west shoreline of the Columbia River between Lat. 45° 48' 10" and 45° 49' 00"
has eroded from 0 to 30 meters since the topographic surveys were made.

The west shoreline of the Columbia River in the vicinity of Lat. 45° 42' 05" has
built up due to the dumping of spoil.

The east shoreline of the Columbia River between Lat. 45° 49' 15" and 45° 50' 05"
has built up.

At Lat. 45° 50' 50" and the east shoreline of the Columbia River a slough is closed
at the water level of this project.

Due to dredging operations there are many differences in the area of Bachelor Island
Shoal, since the topographic surveys were made.

The north tip of Bachelor Island is now of a more pointed shape than that shown on
the topographic surveys.

Comparison was made with Nautical Chart No. 6154 by use of the vertical projector.
The differences are too numerous to list and the planimetry as shown on the map
manuscript should supersede that of the chart.

<table>
<thead>
<tr>
<th>Number</th>
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<tbody>
<tr>
<td>638 to 641 Inc.</td>
<td>6-30-45</td>
<td>14:45</td>
<td>1:7000 contact</td>
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<td>11-27-45</td>
<td>13:45</td>
<td>1:8000 ratio</td>
<td></td>
</tr>
<tr>
<td>3555 to 3557 ''</td>
<td>11-27-45</td>
<td>14:15</td>
<td>''</td>
<td>4.9 ft.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4.9 ft.</td>
</tr>
</tbody>
</table>
DATA RECORD
T-8657

Quadrangle (II): RIDGEFIELD, 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. TV---(VI)

.Completed survey received in office: 3 April, 1946

Reported to Nautical Chart Section:

Reviewed: 2 May 1947 Applied to chart No. Date:

Redrafting Completed: 2 May 1947

Registered: Mar 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° 48' 44.556" (1375.6m) Long.: 122° 44' 15.336" (333.1m) Adjusted Unadjusted

State Plane Coordinates (VI):

X = 

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 'eveling in the U. S. A.
PHOTOGRAPHS (III)

<table>
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<tr>
<th>Number</th>
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<td>836 to 839 &quot;</td>
<td>7-1-45</td>
<td>12:50</td>
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<td>71.7 ft. &quot;</td>
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<tr>
<td>3583 to 3586 &quot;</td>
<td>11-21-45</td>
<td>14:15</td>
<td>&quot;</td>
<td>4.9 ft. &quot;</td>
</tr>
</tbody>
</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 H.L.W., Columbia River, which is 7.29 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: Feb., 1947

Date of Mean High-Water Line Location (III): Nov. 21, 1945

NOTE: According to 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 H.L.W.

Projection and Grids ruled by (III) Washington Office date: June, 1946

Control plotted by: Roy A. Davidson date: Oct., 1946

Control checked by: Eda H. Bunce date: Oct., 1946

Radial Plot by: James L. Harris, Roy A. Davidson date: Nov. 19, 1946

Detailed by: Mary Davison date: Feb. 4, 1947

Reviewed in compilation office by: J. E. Deal date: Feb. 7, 1947

Corrections and changes after field edit by: Marie Elrod

Review after changes due to field edit by: Ree H. Barron
date: Feb. 25, 1947

Elevations on Field Edit Sheet
checked by: Charles Hanovich, Topo. Engineer
date: Feb., 1947
STATISTICS (III)

Land Area (Sq. Statute Miles): 2.5

Shoreline (More than 200 meters to opposite shore): None

Shoreline (Less than 200 meters to opposite shore): 2.0 statute miles

Number of Recoverable Topographic Stations established: 2
(1 section corner and 1 topographic station)

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: May, 1946

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

Recovery of Horizontal Control: 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. Ervast, Photo. Aid
date: July, 1946
RECORD SHEET

GENERAL LOCALITY........... Clark County, Washington

LOCALITY..................... Ridgefield, Wash.

PHOTOS ORDERED............. Aug 1945... REC'D 9-24, 26-45

PROJECTION ORDERED......... June 1946.... REC'D 7-16-46

CONTROL:
COMPUTED......... Harris....... VERIFIED....... Dunce

PLOTTED.............. Davidson..... VERIFIED....... Dunce

PHOTO PREPARATION:
CONTROL............ Harris........

AZIMUTHS............ Davidson......

PASS POINTS........... Dunce, Sherwood

Davidson

TEMPLATES............. Eliot....... VERIFIED....... Harris

RADIAL PLOT: Davidson,
PLOTTED BY........... Harris........ DATE 11-18-46

VERIFIED.............. Deal........ DATE 11-19-46

COMPILATION:
DETAIL POINTS........ Davidson..... DATE 12-30-46

DETAIL BY............ Davidson....... DATE 2-4-47...

VERIFIED BY.......... Deal........ DATE 2-7-47...

DATE OF PHOTOS........... See reverse side

TIME OF PHOTOS......... "n"

STAGE OF TIDE........... "n"

COMPARISON WITH PREVIOUS SURVEYS; TOPO., HYDRO., AND CHARTS:
Due to a scale difference only a visual comparison was made with the USGS La Center
15 min. quadrangle Scale, 1:62500. The planimetry which is common to the map manu-
script and the quadrangle map is in general agreement. Comparison was made with
Nautical Chart No. 6154 by use of the vertical projector. The shorelines of Lake
River as shown on the chart are in general agreement with the shorelines shown

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 3 March 1947

R. A. Earle
Chief of Party
FIELD INSPECTION REPORT
T-8656 and T-8657
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 Radial
Plot", which was enclosed with the Descriptive
Report for Quadrangles T-8699 and T-8670. This
Descriptive Report has been submitted.

Approved by:                           Respectfully submitted:

Robert A. Earle
Chief of Party

Charles Hanavich
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 Reports:

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

B. Computations: Triangulation and Traverse 943/G7Z 0-6785

C. Field records:
   1. Horizontal Angles (form 250) 12 vol. 943/GH 0-7042
   2. Traverse Measurements (form 590) 9 vol. 943/GB 0-7063
   3. Descriptions (form 525) and recoveries (form 526) 943/QL 0-6786
   4. Pricking cards (form M-982-1) for tri. and Trav. Div. of Photogrammetry General File
   5. Recoverable Topographic stations (form 524) Div. of Photogrammetry General File

D. Recovery of bench marks (form 685) Filed in Leveling Sec

E. Supplemental data: maps, plans
   These were transferred to the Map Section (Mr. Stanley, Chief), Division of Charts, to be selectively filed or discarded.

L75

January 1951
26. Control:

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

In the area of Map Manuscript T-8657, the field unit established one permanent and one temporary triangulation station and one temporary traverse station.

A complete tabulation of the horizontal control stations which were originally in the area of these two map manuscripts is attached to the "Field Inspection Report, Project CS-322, Area of the Fourth Radial Plot". This report was included with the descriptive report for Map Manuscripts T-8669 and T-8670, which was forwarded on 8 January 1947.

The supplemental horizontal control stations which were established in this area are listed in a tabulation attached to a special report, "Third Order Triangulation and Traverse, Project CS-322, Area of the Fourth Radial Plot", which has been forwarded.

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 CS-322". This radial plot report was included with the descriptive report for Map Manuscripts T-8669 and T-8670, which was submitted to the Washington Office on 8 January 1947.

28. Detailing:

Compilation was done in accordance with instructions for Project CS-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. During the running of the radial plot for this part of the project, it was found necessary to substitute re-flight photographs for many of the original photographs which were found to be tilted. Though the detail on these re-flight photographs was not as sharp and clear as that on the original photographs, it was possible to select and radial plot enough pass points, which were common to both sets of photographs to enable the compiler to satisfactorily detail the map manuscripts. Where the detail on the re-flight photographs was not clear the tilted photographs were referred to for interpreting the planimetry which has been shown on the map manuscripts. In some cases it was difficult to delineate 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 man 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 curled line which denotes the limits of said areas. These curled lines and the letter symbols are in green acid ink.

All boundary and 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 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 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-8556 copies of Forms 567 are being submitted for the following aids to navigation:
HENRICI CROSSING 2 LIGHT
HENRICI LANDING RANGE FRONT LIGHT
HENRICI LANDING 2 LIGHT
DUCK CLUB LIGHT (Triangulation station)
WARRIOR ROCK LIGHT (Triangulation station)
HENRICI CROSSING 1 LIGHT (Triangulation station)

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. One recoverable topographic station was established along Lake River and one was established along Bachelor Island Slough 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. Filed in Geo. Names Section, Chart Division.

38. Recoverable Topographic Stations:

In the area of Map Manuscript T-8656 copies of Forms 524 are being submitted for the following:

  NORTH GABLE BARN, 1947
  HENRICI LANDING 2 LIGHT, 1946
  HENRICI CROSSING 2 LIGHT, 1946
  HENRICI LANDING FRONT RANGE LIGHT, 1946

In the area of Map Manuscript T-8657 copies of Forms 524 are being submitted for the following:

  SOUTH GABLE BARN, 1946
  WILLAMETTE MERIDIAN, T 4N R 1E-W 1/2 section corner 24-19, 1946

39. Junctions:

Complete and satisfactory junctions have been made between Map Manuscripts T-8656 and T-8657 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 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:  
26 February 1947  
J. Edward Deal, Jr.  
Photogrammetric Engineer
FIELD EDIT REPORT  
Quadrangles T-8656 and T-8657  
Project GS-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 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 planimetry 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, as 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. All offshore and shoreline features were checked. The field inspection of several dolphins, piling areas, and overhead cable crossings and their vertical clearances, which were omitted during the field inspection in the vicinity of Bachelor Island Shoal and Lake River, were inspected during field edit and cross referenced between the field photographs and the field edit prints and supplemented by pertinent notes. Other minor changes and omissions were noted and corrected.

Except for a few changes, the numerous inland wooded marsh, pond, and lake areas appear to have been delineated correctly. These low land areas, when unprotected by dikes and terrain relief, become inundated during the annual freshets. For additional information refer to side headings 1 and 7 of the "Field Inspection Report, Area of the Fourth Radial Plot, Project GS-322".

In T-8656, the shoreline in the vicinity of Bachelor Island Shoal in the Columbia River was determined by planimetric methods, at the plane of reference for this project, during shoreline inspection of this area. The shoreline as delineated had not changed at the time of the field edit, however, the area may change, if additional dredging work is done.

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. Morris, District
Engineer for the Sauvie Island Soil Conservation District and by Mr. Bernard Morris, County Surveyor of Clark County, Vancouver, Washington. The geographic names in this area have been reviewed by Mr. Lewis A. McArthur, Collaborator for the U. S. Coast and 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-8651, T-8654 and T-8655.

49. Bench Mark Elevations:

The elevations of the bench marks shown on these sheets have been checked. Some of the elevations at the USC & GS bench marks are unadjusted elevations and are subject to correction when adjusted.

50. Donation Land Claims and Section Lines:

Donation Land claims and section lines were located on additional geodetic 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 geodetic prints will be submitted with the field edit sheets.

51. Geographic Names: (Listed in Geographic Names Report)

CANVASBACK LAKE: In T-8656 on Bachelor Island 814

Through a typographical error this name was listed as CANVASBACK LAKE in the geographic names report for the fourth radial plot. The correct spelling is, CANVASBACK LAKE.

Field Edit reviewed by:

Charles Hanavich
Topographic Engineer

Field Edit by:

F. H. Elrod
Prin. Photo. Aid

Approved by:

R. A. Earle
Chief of Party
Division of Photogrammetry

Review Report of

Planimetric Map Manuscript T-8656

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


Triangulation stations, Henrič Crossing Light and Eleven-2, 1937 were indicated as recovered on Forms 526. The Field Inspection Report—Area of the Fourth Radial Plot listed the first station as lost and the second without a status.


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

41. Donation Land Claim and Section Lines.

The southern boundary of the S. Hendrickas Donation Land Claim has been moved to the north as shown on the map manuscript in brown acid ink.

Section lines were adjusted approximately to the positions they occupied on the General Land Office plats.

44. Comparison with Existing Topographic Surveys.

Comparison was made with the following (A) Previous Surveys and (B) Quadrangles and the planimetry in all common areas is superseded by T-8656:

A. Previous Surveys.
   T-1542  1:10,000  1882
   T-1563  1:10,000  1880
   T-6570  1:10,000  1937
   T-6571  1:10,000  1937

Comparisons with the T-6570 and T-6571 are adequately described on the Record Sheet attached to this Descriptive Report.

B. Quadrangle.

U.S.E. St. Helens, Ore.—Wash. 15', 1:62,500
45. **Comparison with Nautical Charts.**

6154 1:40,000 1945

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

Reviewed by: B. Thomas Hynson

Reviewed under direction of: S. V. Griffith

B. Thomas Hynson
Photogrammetrist
26 June 1947

Chief, Review Section B 4/27/47

APPROVED BY:

Technical Assistant to the
Chief, Div. of Photogrammetry

K. T. Adams

Chief, Div. of Photogrammetry

Chief, Nautical Chart Br.
Division of Charts

Chief, Div. of Coastal Surveys
Division of Photogrammetry

Review Report of

Planimetric Map Manuscript T-8657

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


One temporary triangulation station and one temporary traverse station established in the area of this survey by the field unit have 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 sheet is confined to the area covered by the westerly one minute, i.e. 122°44' to 122°45'. However, Donation Land Claim lines and the Ridgefield City Boundary line extending east of this minute have been completed and will be shown on the printed map.

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

41. Donation Land Claim and Section Lines.

The western boundary of the Preston Lands Donation Land Claim has been moved approximately 100 feet to the east.

Three Donation Claims, not shown on the manuscript, are to be investigated. These are indicated on an ozalid which has been forwarded to the Portland Office. (Letter attached)

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-8657:

<p>| | | |</p>
<table>
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<tr>
<td>T-1542</td>
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<td>T-1563</td>
<td>1:10,000</td>
<td>1880</td>
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</table>
B. Comparison was made with the following quadrangles and the planimetry in all common areas is superseded by T-8657:

<table>
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<tr>
<th>U.S.G.S.</th>
<th>La Center, Wash. 15' 1:62,500</th>
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<tbody>
<tr>
<td>U.S.E.</td>
<td>La Center, Wash. 15' 1:62,500</td>
</tr>
</tbody>
</table>

**45. Comparison with Nautical Charts.**

Comparison was made with nautical chart No. 6154, 1:40,000, 1945. Comments made on the Record Sheet are adequate. This survey has not been applied to nautical charts as of the date of this report.

Reviewed by: Reviewed under direction of:

<table>
<thead>
<tr>
<th>Harold R. Brooks</th>
<th>S. V. Griffin</th>
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</thead>
<tbody>
<tr>
<td>Photogrammetrist</td>
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<td>5/2/47</td>
<td>5/16/47</td>
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**APPROVED BY:**

<table>
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<tr>
<th>Technical Assistant to the Chief, Div. of Photogrammetry</th>
<th>Chief, Nautical Chart Branch Division of Charts</th>
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<tr>
<th>K. T. Adams</th>
<th>C. H. Green</th>
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<tbody>
<tr>
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<td>Chief, Div. of Coastal Surveys</td>
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</tbody>
</table>
To: Chief, Division of Photogrammetry
   U. S. Coast & Geodetic Survey
   Washington 25, D. S.

From: Lt. Comdr. R. A. Earle

Subject: Review of Map Manuscript T-8657

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

With regard to the above reference, the correction made by the reviewer to the west line of the Preston Laws D.L.C. has been verified by this office.

Tracts 86 and 142 are land claims and not donation land claims. As stated in many previous letters, no local surveys were based on land claims, therefore, they would fall in the category of property lines. Multnomah County Officials have repeatedly requested that we show only original donation land claims, and for this reason other types of claims were omitted on all map manuscripts in that county and many of the map manuscripts in other counties. Mr. Morrison, Clark County Surveyor, would like these lines shown because land records in said county were very poorly recorded, however, they still are property lines and not a basis for surveys. The names of people who established these claims are shown on the attached ozalid print.

In places where the offshore limits of wooded swamp were shown on the map manuscript with a thin dashed line, it was intended that this symbol should represent a shoreline which could not be determined accurately by field investigation or by examination of the photographs. On page 3 of the published pamphlet, "SYMBOLS, AIR PHOTOGRAPHIC SHEETS, U. S. COAST AND GEODETIC SURVEY", the shoreline at swamp, mangrove, or marsh (definite limit of vegetation above mean high water) is shown with a light full line. This same weight line was dashed on the map manuscripts to indicate that the offshore limits of wooded swamp could not be accurately defined and the line should not be considered as a definite shoreline at the water level of this project.

R. A. Earle
Chief of Party

RAE/gw
I recommend that the following objects which have (here) been inspected from seaward to determine their value as landmarks, be charted on (deleted from) the charts indicated.

The positions given have been checked after listing by.

R. A. Earle
Chief of Party.

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<thead>
<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE</th>
<th>D. M. METERS</th>
<th>LONGITUDE</th>
<th>D. P. METERS</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
<th>DATE OF Harbors CHARTS</th>
<th>CHARTS AFFECTED</th>
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<td>LIGHT</td>
<td>HENRICI CROSSING 2, F.W. (New position Tri. Sta. destroyed)</td>
<td>LIGHT</td>
<td>45 48</td>
<td>(1484.8)</td>
<td>-</td>
<td>770.9</td>
<td>H.A.</td>
<td>Radial</td>
<td>4-5-46</td>
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<td>HENRICI LANDING RANGE FRONT</td>
<td>LIGHT</td>
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<td>F.L.W., 1 Sec. F.L.W., 4 Sec. (New position)</td>
<td>LIGHT</td>
<td>45 48</td>
<td>1012.4</td>
<td>122 47</td>
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NOTE: The following fixed aids to navigation have been inspected on the charts indicated.

| LIGHT         | DUCK CLUB F.L.W., 4 Sec. | LIGHT | 45 49 | 1001.6 | 850.9 | 122 47 | 1045.8 | H.A. | Triangulation | 1927 | - | - |
| LIGHT         | HENRICI CROSSING 1, F.L.W., 4 Sec. | LIGHT | 45 48 | 771.7 | - | 964.7 | - | - | - | - | - |
| LIGHT         | WARRIOR ROCK Gr. F.L.W. | LIGHT | 45 48 | 1080.7 | 122 47 | 350.3 | - | - | - | - | - |
| LIGHT         | 15 Seconds 2 flashes | LIGHT | 45 50 | 1717.4 | 122 47 | 298.9 | - | - | - | - | X |

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.
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<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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<th>F</th>
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Survey No: T-8656 & T-8657

Maplin, 20, Aug. 4

M.234
NAUTICAL CHARTS BRANCH

SURVEY NO. T.8656, 8657

Record of Application to Charts

<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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</table>
| 5/31/19 | 6154 | Trogani | Before After Verification and Review
|       |      |              | 78656 Partially Applied |

Before After Verification and Review

Before After Verification and Review

Before After Verification and Review

Before After Verification and Review

Before After Verification and Review

Before After Verification and Review

Before After Verification and Review

Before After Verification and Review

Before After Verification and Review

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.