

8662
8663

Diag'd. On Diag. Ch. No. 6154

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric Air Photographic

T-8662 &

Field No. _____ Office No. T-8663 ✓

LOCALITY

State Oregon

Multnomah Channel &

General locality Sauvie Island

Locality Johnson Crossing & Sturgeon Lake

194 7

CHIEF OF PARTY

R. A. Earle

LIBRARY & ARCHIVES

DATE

Dec 3 - 1947

B-1870-1 (1)

8662
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RECORD SHEET

Div. of Photogrammetry
Graphic Compilation Sect.

GENERAL LOCALITY Columbia County, Oregon

SHEET NO. T-8662

LOCALITY Johnson Crossing

PROJECT NO. CS-322

PHOTOS ORDERED Aug. 1945 REC'D 1-21-46 9-26, 10-1-45

SCALE 1:8000

PROJECTION ORDERED May 1945 REC'D 6-21-46

Joins T-8658 Ck.....

CONTROL:

COMPUTED Foster VERIFIED Bushnell

PLOTTED Bushnell VERIFIED Bunce

PHOTO PREPARATION:

CONTROL R. Foster

AZIMUTHS Davidson

PASS POINTS Bunce

TEMPLATES Sherwood VERIFIED Harris

RADIAL PLOT:

PLOTTED BY Harris DATE 10-7-46

VERIFIED Deal DATE 10-7-46

COMPILATION:

DETAIL POINTS C. Wiebe DATE 11-6-46

DETAIL BY C. Wiebe DATE 12-4-46

VERIFIED BY R. Davidson DATE 12-21-46

DATE OF PHOTOS See reverse side

TIME OF PHOTOS "

STAGE OF TIDE "

COMPARISON WITH PREVIOUS SURVEYS; TOPO., HYDRO., AND CHARTS:

Due to scale difference only a visual comparison could be made with the USGS Hillsboro, Oregon - Washington, 15 minute quadrangle, Scale: 1:62500. There have been many changes and additions in cultural features, in this area, since the quadrangle was made. The drainage is shown in more detail on the map manuscript, however, in general, the common planimetry of the map manuscript (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 January 24, 1947

R. A. Earle
R. A. Earle
Chief of Party

M-2305-12

940

COMPARISONS (cont'd.)

and quadrangle is in agreement.

Comparison was made with a black line print on clear acetate, of previous topographic survey No. 6617a, dated October 1938, Scale: 1:10,000 enlarged to 1:8000. The west shoreline of the Multnomah Channel, as shown on the map manuscript and the survey sheet, is in excellent agreement. The east bank of Multnomah Channel has eroded from 10 to 50 meters throughout its entire length. Since the topographic survey was made a dike with riprap on its west slope, has been built parallel to the east shoreline of Multnomah Channel to prevent further erosion.

Comparison was made with Nautical Chart No. 6154, Scale: 1:40,000 by use of the vertical projector. The same differences were noted for the shoreline as has been mentioned in the above paragraph. Roads and inland pond areas, as shown on the map manuscript and the chart, are not in good agreement.

PHOTOGRAPH DATA

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
357 to 361	Inc. 6-30-45	10:20	1:17000 contact 1: 8000 ratio	11.9 ft. above M.L.W.
1372 to 1375	" 7-10-45	10:30	"	9.9 ft. " "
3501 to 3504	" 11-21-45	13:45	"	4.9 ft. " "

DATA RECORD

T-8662

Quadrangle (II): Johnson Crossing, Oregon
(3 minute)

Project No. (II): CS-322

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, 1945Copy filed in Descriptive
Report No. T- (VI)
Div. Photogram. Office Files

Completed survey received in office: 29 Jan, 1947

Reported to Nautical Chart Section:

Reviewed: 18 Mar. 1947

Applied to chart No.

Date:

Redrafting Completed: 19 Apr. 1947

Registered:

11/47

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): CROSS, 1938 r 1946

Lat.: 45° 43' 57.310" (1769.4m) Long.: 122° 52' 26.911" (581.8m) Adjusted X
Unadjusted

State Plane Coordinates (VI): Oregon, North

X = 1,393,829.21 feet

Y = 762,091.17 feet

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)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
			1:17000 contact	
357 to 361 Inc.	6-30-45	10:20	1: 8000 ratio	11.9 ft. above M.L.W.
1372 to 1375 "	7-10-45	10:30	"	11.9 ft. " "
3501 to 3504 "	11-21-45	13:45	"	4.9 ft. " "

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 Tide from (III): gauge is M.L.W., Columbia River, which is 1.29 ft. above Mean Sea Level.

Mean Range:

Spring Range:

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

Field Inspection by: See remarks, page 3

date:

Field Edit by: J. H. Winniford, Photo. Aid

date: Jan., 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 M.L.W.

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

" " " checked by: Washington Office date: June, 1946

Control plotted by: Walter J. Bushnell date: Sept., 1946

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

Radial Plot by: James L. Harris & J. E. Deal date: Oct. 7, 1946

Detailed by: Carita C. Wiebe date: Dec. 4, 1946

Reviewed in compilation office by: Roy A. Davidson date: Dec. 21, 1946

Corrections and changes after field edit by: Ree H. Barron date: Jan. 21, 1947

Review after changes due to field edit by: Roy A. Davidson date: Jan. 22, 1947

Elevations on Field Edit Sheet

checked by: Charles Hanavich, Topo. Engr. date: Jan., 1947

STATISTICS (III)

Land Area (Sq. Statute Miles): 8.0 miles

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

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

Number of Recoverable Topographic Stations established: 6
(4 topographic stations and 2 section corners)

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: J. H. Winniford, Photo. Aid date: April, 1946

Recovery of Horizontal Control by: J. C. LaJoye, Prin. Photo. Aid date: May, 1946

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

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

Investigation of Geographic

Names and Civil Boundaries by: L. E. Ervast, Photo. Aid date: June, 1946

RECORD SHEET

Div. of Photogrammetry
Graphic Compilation Sect.

GENERAL LOCALITY.....Sawvie Island, Oregon
LOCALITY.....Sturgeon Lake
PHOTOS ORDERED.....Aug. 1945.....9-24, 9-26-45
REC'D.....1-21-46
PROJECTION ORDERED.....May 1945.....REC'D.....6-21-45

SHEET NO. T-8663.....
PROJECT NO. CS-322.....
SCALE 1:8000.....

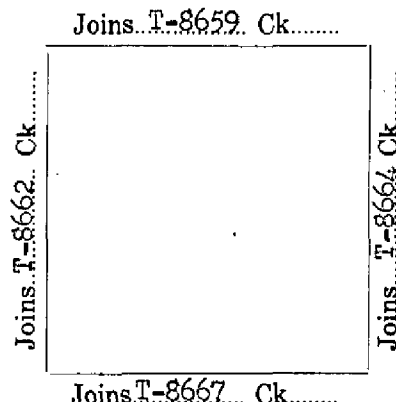
CONTROL:
COMPUTED.....Foster.. VERIFIED.....Bunce.....
PLOTTED.....Foster..... VERIFIED.....Bushnell

PHOTO PREPARATION:
CONTROL.....Foster.....
AZIMUTHS.....Davidson.....
PASS POINTS.....Bunce.....

TEMPLETS.....Sherwood.. VERIFIED.....Harris.....

RADIAL PLOT:
PLOTTED BY.....Harris..... DATE 10-7-46
VERIFIED.....Deal..... DATE 10-11-46

COMPILATION:
DETAIL POINTS.....Elrod..... DATE 11-5-46
DETAIL BY.....Elrod..... DATE 11-20-46
VERIFIED BY.....Davidson..... DATE 12-16-46



DATE OF PHOTOS.....See reverse side

TIME OF PHOTOS....."

STAGE OF TIDE....."

COMPARISON WITH PREVIOUS SURVEYS; TOPO., HYDRO., AND CHARTS:

Due to scale difference only a visual comparison could be made with the USGS Hillsboro, Oregon - Washington, 15 minute quadrangle, Scale: 1:62500. Mouse Island Lake and a few small ponds, shown on the quadrangle, have been drained and these areas are now under cultivation. Elsewhere the common planimetry of the map manuscript and quadrangle map is in agreement. (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.....January 24, 1947.....

R. A. Earle
R. A. Earle
Chief of Party

M-2305-12

94A

COMPARISONS (cont'd.)

Comparison was made with a black line print on clear acetate of previous topographic survey No. 6617a, dated October 1938, Scale: 1: 10,000 enlarged to 1: 8000. The shoreline of the survey and map manuscript is in excellent agreement.

Comparison was made with Nautical Chart No. 6154, Scale: 1: 40, 000, by use of the vertical projector. Mouse Lake and several ponds south of Mouse Lake, which are now shown on the chart, have been reclaimed and are under cultivation. Elsewhere the planimetry common to the chart and map manuscript is in fair agreement.

PHOTOGRAPH DATA

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
332 to 336 Inc.	6-30-45	9:50	1:17000 contact 1: 8000 ratio	11.9 ft. above M.L.W.
438 to 442 "	6-30-45	11:30	"	11.9 ft. " "
531 to 534 "	6-30-45	13:00	"	11.9 ft. " "
3522 to 3525 "	11-21-45	15:00	"	4.9 ft. " "
3535 to 3538 "	11-21-45	15:00	"	4.9 4.9 ft. " "

DATA RECORD

T-8663

Quadrangle (II): Sturgeon Lake
(3 minute)

Project No. (II): CS-322

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, 1945Copy filed in Descriptive
Report No. T- (VI)Completed survey received in office: *29 Jan. 1947*

Reported to Nautical Chart Section:

Reviewed: *21 Mar. 1947* Applied to chart No. Date:Redrafting Completed: *20 May 1947*Registered: *Nov. 22 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): CLARK 1938 r 1941, 1945

Lat.: $45^{\circ} 44' 24.047''$ (742.4m) Long.: $122^{\circ} 50' 20.594''$ (445.2m) Adjusted X
UnadjustedState Plane Coordinates (VI): *Oregon North*X = *1,402,863.83 feet* Y = *764,536.79 feet.*

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.

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PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
			1:17000 contact	
332 to 336 Inc.	6-30-45	9:50	1: 8000 ratio	11.9 ft. above M.L.W.
438 to 442 "	6-30-45	11:30	"	11.9 ft. " "
531 to 534 "	6-30-45	13:00	"	11.9 ft. " "
3522 to 3525 "	11-21-45	15:00	"	4.9 ft. " "
3535 to 3538 "	11-21-45	15:00	"	4.9 ft. " "

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 Tide from (III): Mean Sea Level.

Mean Range:

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

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

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

" " " checked by: Washington Office date: June, 1946

Control plotted by: Richard Foster date: Sept., 1946

Control checked by: Walter Bushnell date: Sept., 1946

Radial Plot by: James L. Harris & J. E. Deal date: Oct. 11, 1946

Detailed by: Marie B. Elrod date: Nov. 29, 1946

Reviewed in compilation office by: R. A. Davidson date: Dec. 16, 1946
Corrections and changes after field edit by: Ree H. Barron date: Jan. 21, 1947
Review after changes due to field edit by: Roy A. Davidson date: Jan. 22, 1947
Elevations on Field Edit Sheet
checked by: Charles Hanavich, Topo. Engr. date: Jan., 1947

STATISTICS (III)

Land Area (Sq. Statute Miles): 5.0

Shoreline (More than 200 meters to opposite shore): 25.0 statute miles

Shoreline (Less than 200 meters to opposite shore): 10.0 statute miles

Number of Recoverable Topographic Stations established: 3
(2 landmarks and 1 section corner)

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: J. H. Winniford, 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: Sept., 1945
Recovery of Vertical Control by: J. H. Winniford	date: Oct. 1945
Investigation of Geographic Names and Civil Boundaries by: L. E. Ervast, Photo. Aid	date: June, 1946

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:

- | | Access No. |
|---|--|
| A. Special Reports: | |
| 1. Investigation of Boundary Monuments and Land Lines for Radial Plots 1, 2, 3, and 4 | CS-322 Rept. 1 |
| 2. Radial Plots 1, 2, 3, and 4 | " " 2 |
| 3. Legal descriptions of boundaries | " " 3 |
| 4. Field Inspection for plots 1, 2, 3, and 4 | " " 4 |
| B. Computations: Triangulation and Traverse | 943/OTZ G-6785 |
| C. Field records: | |
| 1. Horizontal Angles (form 250) 12 vol. | 943/GH G-7082 |
| 2. Traverse measurements (form 590) 9 vol. | 943/GB G-7083 |
| 3. Descriptions (form 525) and recoveries (form 526) | 943/GA G-6786 |
| 4. Pricking cards (form A-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. | |

L 75

January 1951

COMPILATION REPORT
MAP MANUSCRIPTS T-8662 and T-8663
PROJECT CS-322

26. Control:

At the time this project was started there were eleven existing horizontal control stations in the area of these two map manuscripts. Eight of these stations were recovered and five were identified for use in the radial plot. In order to satisfactorily control the photographs, one permanent triangulation station and one temporary traverse station were established along the west limits of T-8662, and two temporary triangulation stations were established in the area of T-8663. 3 in 8663

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.

→ Filed in Div. Photogram. General Files, under "Special Reports".

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.

→ Filed in Library & Archives 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 CS-322". This radial plot report was included with the descriptive report for Map Manuscripts No's. T-8669 and T-8670, which was submitted to the Washington Office on 8 January 1947.

→ Filed in Div. Photogram. General Files under "Special Reports".

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 reflight photographs made on November 21, 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 photograph 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 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 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:

The following maps, which were forwarded to the Washington Office on 14 January 1947, were used to supplement the photographs:

Sheets 1 and 10, of a set of 74 sheets published by the Multnomah County Assessor's Office, Scale: 1" = 600'.

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 November 21, 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. Where the field inspection unit could not definitely establish the location of the high-water line, it is shown by dashed black acid ink lines, of the same weights, as described above.

31. Low-Water and Shoal Lines:

The field inspection units did not indicate any low-water areas within the limits of these two map manuscripts. Approximate shoal areas have been enclosed within dotted black acid ink lines and appropriately noted.

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 No. T-8663, Forms 567 are being submitted for the following:

✓TOWER (North) ✓TOWER (South)
✓TANK (North of two), triangulation station

35. Hydrographic Control:

No additional hydrographic control 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. Several recoverable topographic stations were established along Multnomah Channel, in the area of T-8662, 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. *Division of Charts.*
→ *Filed in Geographic Names Section, Coastal Surveys*

38. Recoverable Topographic Stations:

In the area of Map Manuscript No. T-8662 copies of Forms 524 are being submitted for the following:

CHAN, 1946	T 3N R 1W-2W Section Corner 19-24-25-30, 1946
DOLE, 1946	T 3N R 2W $\frac{1}{4}$ Section Corner 23-26, 1946
PHIN, 1946	W 101 = PTS 12 USGS, (1914), 1946

In the area of Map Manuscript No. T-8663 copies of Forms 524 are being submitted for the following:

• WOODEN TRANSMISSION TOWER NORTH, 1946
• WOODEN TRANSMISSION TOWER SOUTH, 1946
• T 3N R 1W Section Corner 29-30-31-32, 1946

39. Junctions:

Complete and satisfactory junctions have been made between Map Manuscripts No's. T-8662 and T-8663, and with adjoining map manuscripts.

*Special Report: Investigation of Boundary Monuments & Land Lines ...
Area of the Fourth Radial Plot.
Filed in Div. Photogram. Gen. Files under "Sp'l. Rpts."*

40. Bench Marks:

8412 { 12 revo.
9 plotted
8413 { 2 revo
none plotted

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:

Filed with map manuscript

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
Robert A. Earle
Chief of Party

Respectfully submitted:
22 January 1947

J. Edward Deal Jr.
J. Edward Deal, Jr.
Photogrammetric Engr.

FIELD EDIT REPORT
QUADRANGLES T-8662 and T-8663
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 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, 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 buildings and recently constructed drainage ditches were located by field measurements on the field photographs or the ozalid prints. Several wooded and intermittent pond areas were found to have been cleared and drained when these new ditches were constructed. The names of roads which were indicated on the prints were obtained from official road signs. Other minor changes, omissions and corrections were noted and corrected.

All offshore and shoreline features were checked. Several additions and corrections were noted. Inland the numerous marsh, pond and lake areas appear to have been delineated correctly. It is to be noted that the low land areas in T-8663, unprotected by dikes and terrain relief, become inundated when the sloughs, ponds, et cetera, overflow during the annual freshets. Areas enclosed by dikes are not subject to these severe flood conditions as the drainage is carefully 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. D. C. Slaght, City and County Engineer, St. Helens, Oregon, in T-8662 and by Mr. George B. Stocks of the U.S. Soil Conservation, Box 116D, Portland, Oregon, in T-8663. 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 Report for Quadrangle T-8671.

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 change when adjusted.

50. Donation Land Claim and Section Lines:

Donation land claim 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)

Jones Creek: In T-8662 at Latitude $45^{\circ} 42.6'$; Longitude $122^{\circ} 52.6'$.

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:

Claude Powers, County Surveyor
County Court House, Portland, Oregon

Earl A. Marshall,
(former Multnomah County Surveyor)
1172 S. E. 55th Avenue
Portland, Oregon

Field Edit Reviewed by:

Charles Hanavich
Charles Hanavich
Topographic Engineer

Approved by:

R. A. Earle
R. A. Earle
Chief of Party

Field Edit by:

J. H. Winniford
J. H. Winniford (T-8662)
Photo. Aid

F. H. Elrod
F. H. Elrod (T-8663)
Prin. Photo. Aid

Division of Photogrammetry

Review Report of

Planimetric Survey T-8662

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

28. Detailing:

Bluelines were furnished the Portland Office and drafting started in that office on T-8662 prior to this review. Revisions of the manuscript made during the review are shown in brown ink, and these details must be corrected on the bluelines. Changes in land claim and section lines noted in the next section are subject to verification by the Portland Office.

41. Donation Land Claim and Section Lines:

Two slight changes were made in the section lines in the southeast corner of the sheet, the line west of and the line south of corner 25, 26, 35, 36. These lines had been shown slightly curved by the compiler.

Section Corner 13, 18, 19, 24 has been moved southward on the range line 68 feet. This position was located by drawing a straight line from the first corner to the west, a recovered corner, to the first recovered corner on the same line to the east. The new position was further verified by measurements to the other corners of Section 24, the other corners all being recovered corners.

By changing the position of Section Corner, 13, 18, 19, 24 all the D.L.C. lines on this map changed position. Their original layout in reference to measurements and angles was correct, except in two instances, so that the layout could be moved bodily to its new position. The exceptions were: the western boundary of Jesse Miles' D.L.C., in error by two degrees, and the western boundary of Thomas Jackson's D.L.C., shown as a straight line, whereas, the G.L.O. plot indicated a breakaway in the northern portion of the line.

One Donation Claim, not indicated on the compilation or in the Special Report on this subject, was noted on the G.L.O. plats (#7 & #8). The name shown on the claim is "Ridsell". Decision as to whether this should be added is left to the Portland Office. See also review of T-8663.

44. Comparison With Existing Topographic Surveys:

U.S.G.S. Hillsboro, Ore.-Wash. 15' quadrangle,
scale 1:62,500. Surveyed 1915 - Reprinted 1920.

U.S.E. - Revision of above - 1939, 40.

Both of these surveys are superseded by T-8662.

45. Comparison With Nautical Charts:

This survey has not been applied to nautical charts.
It has been compared with Chart No. 6154 with results as
mentioned on the Record Sheet.

Reviewed by:

Reviewed under direction of:

Harold R. Brooks
Harold R. Brooks 3/18/47
Photogrammetrist

S. V. Griffith
S. V. Griffith
Chief, Review Section

APPROVED BY:

B. G. Gores 11/47
Technical Assistant to the
Chief, Div. of Photogrammetry

J. E. Patterson
Chief, Nautical Chart Branch
Division of Charts

C. K. Green
Chief, Div. of Photogrammetry Chief, Div. of Coastal Surveys

Division of Photogrammetry

Review Report of

Planimetric Survey T-8663

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

28. Detailing:

Bluelines were furnished the Portland Office and drafting started in that office on T-8663 prior to this review. Revisions of the manuscript made during the review are shown in brown ink, and these details must be corrected on the bluelines. Changes in land claim and section lines noted in the next section are subject to verification by the Portland Office.

41. Donation Land Claim and Section Lines:

Corrections made on the section lines were to straighten out these lines between recovered corners and to relegate them to a position approximating their original layout as shown on the G.L.O. plats. The compiler had shown them only across the land areas as they exist today.

Sheet T-8663, as compiled, contained no Donation Land Claims. The Special Report, Investigation of Boundary Monuments and Lines - Area of the Fourth Radial Plot, also indicated that there were no D.L.C.'s in this area. However, the G.L.O. plat (#8) shows five D.L.C.'s in this area, viz:

1. J. M. Alexander — *accepted*
 2. ~~S. O. Bonser~~
 3. ~~M. L. Armstrong~~
 4. ~~B. F. Morgan~~
 5. ~~M. D. Lafayette Enyast~~
 6. ~~J. S. Reasomer~~ — *accepted*
- see letter filed in
Deser. Rept. 8864-8865*

These claims seem to have been established at a later date than those usually shown, since the names are written on the plats. Decision as to whether these claims shall be added is left to the Portland Office and will depend upon local need for the information and any special information which may be available at Portland regarding the original establishment of these claims.

44. Comparison with Hydrographic Surveys: See Record Sheet.

44. Comparison with Existing Topographic Surveys:

T-8663 has been compared with the following topographic maps. Planimetric details on T-8663 are complete and adequate as compared to the following maps.

U.S.G.S. - Hillsboro, Ore.-Wash., 15' quadrangle,
scale 1:62,500. Surveyed 1915 - Reprint of 1920.

U.S.E. - Revision of above - 1939, 40.

45. Comparison with Nautical Charts:

This survey has not been applied to nautical charts. It has been compared with Chart No. 6154 as mentioned on the Record Sheet.

Reviewed by:

Reviewed under direction of:

Harold R. Brooks
Harold R. Brooks 3/21/47
Photogrammetrist

S. V. Griffith
S. V. Griffith
Chief, Review Section

APPROVED BY:

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Chief, Div. of Photogrammetry

H. P. [Signature]
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K. T. Adams
Chief, Div. of Photogrammetry

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GEOGRAPHIC NAMES

Survey No. T-8662 & T-8663

1	Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K
	<u>Both Sheets:</u>									1
✓	<u>Oregon</u>									2
✓	<u>Columbia County</u>									3
✓	<u>Multnomah County</u>									4
✓	<u>Multnomah Channel</u>									5
✓	<u>Sauvie Island</u>									6
✓	<u>Dike Road</u>									7
✓	<u>Sauvie Island Road</u>									8
										9
										10
	<u>T-8662:</u>									11
✓	<u>Sauvie Island Drainage Ditch</u>									12
✓	<u>P.G.E. Power Line</u>									13
✓	<u>U.S. No. 30</u> <u>Columbia River Highway</u>									14
✓	<u>Spokane Portland & Seattle</u>									15
✓	<u>Rocky Point Road</u>									16
✓	<u>Jones Creek</u>									17
✓	<u>Joy Creek</u>									18
✓	<u>Watson Road</u>									19
✓	<u>Gilkinson Road</u>									20
✓	<u>Bonneville Power Administration Transmission Line</u>									21
✓	<u>Johnson Crossing</u>									22
✓	<u>Johnson Landing</u>									23
✓	<u>Jackson Creek</u> (nearer the river it is called "Slough")									24
✓	<u>Old Columbia Highway</u>									25
✓	<u>Swagger Road</u>									26
✓	<u>Fairview Cemetery</u>									27

GEOGRAPHIC NAMES

Survey No. T-8662 & T-8663

GEOGRAPHIC NAMES		Survey No. T-8662 & T-8663									
		On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
2	Name on Survey	A	B	C	D	E	F	G	H	K	
	<u>T-8662 (continued):</u>									1	
	<u>South Scappoose</u>									2	
	<u>South Scappoose Creek</u>									3	
	<u>Dutch Canyon Road</u>									4	
	<u>St. Wencelous Church</u>									5	
	<u>Scappoose Catholic Cemetery</u>									6	
	<u>Adams Road</u>									7	
	<u>Watts Road</u>									8	
	<u>Dike Road</u>									9	
										10	
	<u>T-8663:</u>									11	
	<u>Oak Island Road</u> ✓									12	
	<u>Gilbert River</u> ✓ (2 places)									13	
	<u>Sturgeon Lake</u> ✓ (several places)									14	
	<u>Clark & Wilson Co.</u>									15	
	<u>Honeyman Rd</u> ✓									16	
										17	
										18	
										19	
										20	
										21	
										22	
										23	
										24	
										25	
										26	
										27	

Names underlined in red book
by L. Heck on 4/2/47

M 234

Names underlined in red corrected
by L. Heck on 4/18/47

NAUTICAL CHARTS BRANCH

SURVEY NO. T-8662 - 8663

Record of Application to Charts

[illegible]

M-2168-1

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.