

# 8810

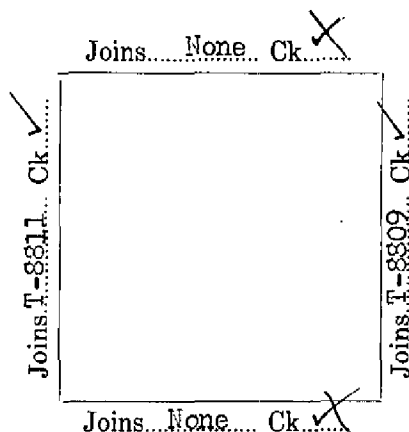
# 8810

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey <u>Planimetric Air Photographic</u>	
Field No. ....	Office No. <u>T-8810</u>
LOCALITY	
State <u>OREGON</u>	
General locality <u>Willamette River</u>	
Locality <u>Champoeg State Park</u>	
<u>194 7</u>	
CHIEF OF PARTY	
<u>R. A. Earle</u>	
LIBRARY & ARCHIVES	
DATE <u>January 8, 1948</u>	

# RECORD SHEET

Div. of Photogrammetry  
Graphic Compilation Sect.

GENERAL LOCALITY Willamette River, Oregon SHEET NO. T-8810  
LOCALITY Champoeg State Park PROJECT NO. Ph-13(46)  
PHOTOS ORDERED Dec., 1946 REC'D 14 Jan. 1947 SCALE 1:10,000  
PROJECTION ORDERED Dec. 1946 REC'D 13 Jan. 1947 Joins. None Ck. ☒  
CONTROL:  
COMPUTED Harris VERIFIED Davidson  
PLOTTED Davidson VERIFIED Harris  
PHOTO PREPARATION:  
CONTROL Harris  
AZIMUTHS Davidson  
PASS POINTS Harris & Davidson  
TEMPLATES Davidson VERIFIED Harris  
RADIAL PLOT: Harris DATE OF PHOTOS 8-9-46  
PLOTTED BY Davidson DATE 3-13-47 TIME OF PHOTOS Not listed  
VERIFIED Deal DATE 3-14-47  
COMPILATION: STAGE-OF-TIDE  
DETAIL POINTS M.B. Elrod DATE 4-11-47 Water level is 52.78 ft. above  
DETAIL BY M. B. Elrod DATE 5-19-47 Mean Sea Level.  
VERIFIED BY Barron DATE 5-27-47



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

Due to a scale difference only a visual comparison was made with the USGS  
Tualatin, Ore. and Mt. Angel, Oregon 15 minute quadrangles, Scale: 1:62500.  
The planimetry which is common to the map manuscript and quadrangle maps is in  
good agreement. The drainage pattern of the area as shown on the map manuscript  
is more complete than that shown on the quadrangle maps. Nautical charts for

REMARKS Complete planimetric detail along both shores of the Willamette River  
and within a zone averaging 300 meters in width on each side of the river has  
been compiled. Inshore from this area only skeleton planimetric details  
are shown.

FORWARDED TO Washington Office DATE May 1947

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

643

COMPARISON (continued)

this part of the Willamette River have not been compiled.

## DATA RECORD

T- 8810

TUALATIN, OREGON  
 Quadrangle (II): MT. ANGEL, OREGON  
 (USGS) 15 minute

Project No. (II): Ph-13(46)

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

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

Instructions dated (II III): 8 October 1946 Copy filed in Descriptive  
 Supplemental Instructions: 4 November 1946 Report No. T- (VI) Div. of Photo-  
 grammar Office Files

Completed survey received in office: 7/21/47

Reported to Nautical Chart Section: 7/24/47

Reviewed: 9/15/47 Applied to chart No. \_\_\_\_\_ Date: \_\_\_\_\_

~~Redrafting Completed: 7/7/47~~

Registered: 12/47

~~Published:~~

Compilation Scale: 1:10,000

~~Published Scale:~~

Scale Factor (III): None

Geographic Datum (III): N.A. 1927

Datum Plane (III): \* See below

Reference Station (III): CHAMPOEG, 1946

Lat.: 45° 14' 56.579" (1746.7m) Long.: 122° 53' 48.019" (1047.1m) Adjusted  
 Unadjusted X

State Plane Coordinates (VI): OREGON NORTH ZONE (ruled in red on the  
 manuscript\*)

X =

Y =

## Military Grid Zone (VI)

Adopted Plane between Oregon City and Newberg is <sup>52.0</sup>~~51.6~~ ft. above Mean Sea Level.  
 All bench mark elevations are referenced to Mean Sea Level and are on the Standard  
 1929 general adjustment of leveling in the U. S. A.

See remarks - page 3

94.0

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
<u>Nine lens</u>				<u>Water Level</u>
17263 to 17266 Inc.	8-9-46	Not listed	1:10,000	52.78 ft above M.S.L.
17271 to 17274 "	8-9-46	"	"	52.78 ft. "

Tide from (III): None

Mean Range: None

Spring Range: None

Camera: (Kind or source) U.S. Coast & Geodetic Survey nine lens  
focal length 8.25 inches

Field Inspection by: J. C. LaJoye (Interior) date: Dec., 1946  
J. Winniford (Shoreline, Geographic Feb., 1947  
Names) Dec., 1946

Field Edit by: None date:

Date of Mean High-Water Line Location (III): February, 1947

Projection and Grids ruled by (III) Washington Office date: January, 1947

" " " checked by: Washington Office date: January, 1947

Control plotted by: Roy A. Davidson date: February, 1947

Control checked by: James L. Harris date: February, 1947

Radial Plot by: J. L. Harris & R. A. Davidson date: 13 March 1947

Detailed by: Marie B. Elrod date: 4-11 to  
5-19-47

Reviewed in compilation office by: Ree H. Barron date: 27 May 1947

Elevations on Field Edit Sheet  
checked by: None

date:

042

STATISTICS (III)

Land Area (Sq. Statute Miles): 7.0 sq. mi. (complete detail)  
23.0 sq. mi. (skeleton detail)

Shoreline (More than 200 meters to opposite shore): 15.0 statute miles

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

Number of Recoverable Topographic Stations established: 8

Number of Temporary Hydrographic Stations located by radial  
plot: 41

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:

The adopted Water Plane is a pool between  
the dam at Oregon City and the zero of the gage  
at Newberg, Oregon which is 52.0 ft. above M.S.L.

JH

MAP T. 8810

PROJECT NO. Ph-13(46)

SCALE OF MAP 1:10,000

SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\mu$ -COORDINATE LONGITUDE OR $x$ -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	REMARKS FACTOR OF DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD - - - (BACK)
✓ REX 1945 r 1946	G 6734 page 878	N.A. 1927	45° 18' 16.948" 122 53' 36.608	523.2 (1329.1) 797.6 (509.6)			Used in radial plot.
QUEED (USE 1935)							Not searched for.
POP (USE 1935)							Not searched for.
✓ IADD, 1946	Field Comp.	"	45° 17' 12.653" 122 51 20.154	390.6 (1461.7) 439.2 (868.4)			Unadjusted, used in radial plot.
MAM (USE 1935-36)							Not searched for.
OAG (USE 1935-36)							Not searched for.
KUD (USE 1935)							Not searched for.
✓ HAZEL 1946	Field Comp.	"	45° 15' 58.471" 122 53 28.025	1805.1 (47.2) 611.0 (697.0)			Unadjusted, used in rad. pl.
✓ BAP (USE 1935-36) 1946	"	"	45° 15' 50.662" 122 50 42.452	1564.0 (288.3) 925.5 (382.6)			Unadjusted, used in radial plot.
PTS 60 (USCS (USE 1935)							Not searched for.
NEW (USE 1935-36)							Not searched for.
X 99 USCGS (USE 1935)							Not searched for Shown as BM

1 FT. = 3048006 METER

COMPUTED BY: J. L. Harris

DATE February, 1947

CHECKED BY: R. A. Davidson

DATE February, 1947

M-2388-12

MAP T- 8810

PROJECT NO. Ph-13(46)

SCALE OF MAP 1:10,000

SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $y$ -COORDINATE LONGITUDE OR $x$ -COORDINATE		DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		REMARKS FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
PTS 62 USGS (USE 1935-36)										
YOLK, OSHD (USE 1935)										Not searched for
PEN, OSHD (USE 1935)										Not searched for
✓ PTS 61 USGS (USE 1935)	Re-computed	N.A. 1927	45° 14' 55.83"	122 53 47.21	1723.6 (128.7)	1029.5 (278.9)				Not searched for
HIC, USGS (USE 1935)										Unadjusted, not used in rad. pl.
IDS (USE 1935)										Not searched for
HYDRO SIGNAL trimmed tree near LaButte, 1946	Field Comp.	N.A. 1927	45° 15' 15.23"	122 51 01.87	470.2 (1382.1)	40.8 (1267.5)				Unadjusted, not searched for but shown as tri. sta. since established in 1946.
✓ LaBUTTE, 1946	Field Comp.	"	45° 15' 13.465"	122 51 04.138	415.7 (1436.6)	90.2 (1218.1)				Unadjusted, used in radial plot
✓ YOLK (USE) 1946	G 6734 page 880	"	45° 14' 41.80"	122 56 25.35	1290.4 (561.9)	552.8 (755.7)				Used in rad. pl. Az.Mk. for HOPPER
✓ HOPPER, 1946	Field Comp.	"	45° 14' 46.096"	122 56 07.861	1423.0 (429.3)	171.4 (1137.1)				Unadjusted, used in radial plot
✓ CHAMPOEG, 1946	"	"	45° 14' 56.579"	122 53 48.019	1746.7 (105.6)	1047.1 (261.3)				Unadjusted, used in radial plot

1 FT. = 3048006 METER

M-2388-12

COMPUTED BY: J. L. Harris

DATE Feb., 1947

CHECKED BY: R. A. Davidson

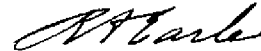
DATE Feb., 1947



[illegible]

FIELD INSPECTION REPORT  
Sheets T-8809, T-8810 & T-8811  
Project Ph-13(46)

1 to 25: All information that is applicable to these side headings is given in the "Field Inspection Report, Project Ph-13(46), Sheets T-8809, T-8810 and T-8811". This report is included with the Descriptive Report for Sheet T-8809.



R. A. Earle  
Chief of Party

COMPILATION REPORT  
Map Manuscript T-8810  
Project Ph-13(46)

26. Control:

At the time this project was started there were twenty-five horizontal control stations within the area of this map manuscript. Eight of these stations had been established by the USC&GS, thirteen were traverse stations, established by the U. S. Engineers, and four were traverse stations established by the USGS. Two of the above listed USE traverse stations and one USGS traverse station were included in the USC&GS scheme of triangulation in 1946. The eight USC&GS stations were recovered and seven were identified for use in the radial plot. The two U. S. Engineer stations and one USGS station, which had been included in the USC&GS 1946 control, were identified for use in the radial plot. PTS 61 (USGS) was recovered but not identified. It was plotted on the map manuscript by using a position which was determined by readjusting the USE traverse between points relocated by our 1946 triangulation.

Traverse station "X 99 (USE), 1935", was recovered as a USC&GS bench mark. It was plotted by using the position published by the U. S. Engineers but is shown as a bench mark, due to the slight differences in position which were noted when the USC&GS tied into other USE stations in the vicinity.

Ten USE traverse stations and two USGS traverse stations were not recovered as they were not needed to control the radial plot. These stations were disregarded during the compilation of this map manuscript.

A complete tabulation of the horizontal control stations for this map manuscript is shown on three sheets of Form M-2388-12, which are attached to this descriptive report.

27. Radial Plot:

This map manuscript is part of Radial Plot No. 1, Project Ph-13(46), which includes the Map Manuscripts No's. T-8809, T-8810, and T-8811.

The facts concerning this radial plot have been fully described in the descriptive report for T-8809.

28. Detailing:

Compilation was done in accordance with instructions for Project Ph-13(46). Special care was taken to see that the requirements of Paragraph 34, of the instructions, were met.

The transforming printer at the Washington Office was not in proper adjustment at the time the photographs were printed and they could not be oriented in their entirety at the compilation table when radially plotting various types of pass points. Enough pass points had, however, been established

during the radial plot so that each chamber of each photograph could be separately oriented. For at least two of the chambers on each photograph, it was found necessary to de-center the photograph radially, to or from the chamber being oriented, so that the radials to the pass points and horizontal control stations in the chamber would pass through their positions on the map manuscript.

Due to shadows and overhanging trees along the banks of the rivers, it was often impossible to get more than a two radial intersection, on some of the detail pass points which were used to compile the shorelines. These two radial intersection points have been shown with a small circle in green ink on the reverse side of the map manuscript.

The photograph coverage was adequate and very little trouble was encountered in interpreting the planimetric details.

All planimetric features have been compiled, within a zone averaging 300 meters in width, along both shores of the Willamette River. Inshore from this zone only skeleton planimetric details have been shown. The detailing limits of the map manuscript were taken from the index map furnished the compilation office and are shown with a light full line in green acid ink.

This map manuscript is relatively a smooth drawing and all symbols have been drafted to conform with samples furnished the compilation office or with symbols shown on similar planimetric maps which have recently been published by the U. S. Coast & Geodetic Survey.

The heights of bluffs only, were indicated by the field inspector. Their location was interpreted by the compiler with the aid of the stereoscope. Shoreline features and drainage were also delineated by extensive use of the stereoscope, however, it was often necessary to detail the field inspector's interpretation of drainage through thickly wooded areas. This was done only when it was impossible to determine the location of drainage by stereoscopic examination of the photographs.

29. Supplemental Data:

No supplemental data was used in the area of this map manuscript.

30. Mean High-Water Line: (River shoreline at the adopted plane of reference)

A complete discussion of this feature may be found in paragraph 7 of the Field Inspection Report, Sheets 8809, 8810, and 8811, Project Ph-13(46). (T-8809)

The mean high-water line (River shoreline at the adopted plane of reference) is shown by a continuous black acid ink line, .008" in thickness, at a plane 52.0 ~~52.6~~ ft. above Mean Sea Level. There are no marsh areas immediately bordering the shoreline.

31. Low-Water and Shoal Lines:

The field inspection unit did not indicate any low-water or shoal lines within the area of this map manuscript.

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

The ruins of two docks and some old piling are the only details lying off-shore from the river shoreline.

33. Wharves and Shoreline Structures:

There are no shoreline structures within the limits of this map manuscript.

34. Landmarks and Aids to Navigation:

There were no aids to navigation within the area of this map manuscript. Form 567 is being submitted recommending the charting as a nautical landmark of "FLAGPOLE, CHAMPOEG PARK, 1947".

35. Hydrographic Control:

A complete discussion of this subject can be found in the Field Inspection Report, Sheets 8809, 8810, and 8811, Project Ph-13(46), paragraph 12. (T-8809)

It is believed that the field unit, in an attempt to satisfy the minimum hydrographic control requirements for this project, may have selected a few temporary signals that were of doubtful identity on the photographs or located them by methods which were not too strong. The compiler has radially plotted or otherwise located all of the signals recommended for hydrographic control, by the field unit, for this map manuscript. (The compilation office is confident that the signals, which were easily identified on the photographs, are accurately located but, should the hydrographic party encounter some difficulty with a particular signal it should be discarded.) In any event, there has been a sufficient number of well located signals established, which may be used by the hydrographic party for establishing additional signals at the time the hydrographic survey is made.

A list of forty-one hydrographic signal sites, which fall in the area of this map manuscript, is attached to the Field Inspection Report, Sheets 8809, 8810, and 8811, Project Ph-13(46). T(8809)

36. Landing Fields and Aeronautical Aids:

A portion of Sportsman Airport (emergency field) falls along the western limits of this map manuscript. There are no aeronautical aids within the limits of this map manuscript.

37. Geographic Names:

Geographic names are the subject of a special report, Investigation of Geographic Names, Sheets 8809, 8810, and 8811, Project Ph-13(46), which has been submitted. All undisputed and recommended geographic names have been shown on the map manuscript. Geographic Names Section, Division of Charts

38. Recoverable Topographic Stations:

Copies of Forms 524 are being submitted for the following: Photogrammetry Files

FARM, 1947  
JIGG, 1947  
IVAN, 1947  
EVER, 1947

BUTTEVILLE RIVER GAGE, 1947  
FLAGPOLE, CHAMPOEG PARK, 1947  
HUNG (ROCK, OSHD, 1935), 1947  
GONE, 1947

39. Junctions:

Complete and satisfactory junctions have been made between Map Manuscripts T-8809 and T8810 and between Map Manuscripts T-8810 and T-8811.

40. Bench Marks:

Bench marks have been detailed as identified by the field inspection units. Each bench mark shown is indicated by a black acid ink cross with the name and elevation to the nearest 1/10 foot lettered nearby.

44. Comparison with Existing Topographic Surveys: *Quadrangles*

See record sheet which accompanies each map manuscript.

45. Comparison with Nautical Charts:

There are no nautical charts of the area.

Approved and forwarded:

*Robert A. Earle*

Robert A. Earle  
Chief of Party

Respectfully submitted:

9 July 1947

*J. Edward Deal Jr.*

J. Edward Deal, Jr.  
Photogrammetric Engineer

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

PROJECT 13 (46)  
7-8810

## LANDMARKS FOR CHARTS

TO BE CHARTED } STRIKE OUT ONE  
TO BE DELETED }

**Portland, Oregon**

24 June 1947

I recommend that the following objects which have ~~(have not)~~ 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. *W. J. J. J.*

Stearls

**B. A. Fazio** Chief of Party.

[illegible]

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." 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*  
Shoreline Map Manuscript T-8810

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

28. Detailing

Corrections made to map detail were limited to the shoreline. Inshore planimetric detail was in order.

In checking the position of the shoreline only positive image points were used. The majority of these points were limited to two cuts but a sufficient number of three point cuts were available to verify the weaker points.

The transfer of field inspection shoreline to the office photographs was checked and then applied to the manuscript by holding to the new pass points. An additional check was made by use of the vertical projector.

Due to the high wooded banks along both sides of the river a combination of relief displacement and shadows tended to obscure the shoreline. Relief displacement of the image was not taken into consideration in one instance where the field inspector had delineated the tops of trees as the shoreline. See field photo number 17273.

Characteristic features of shoreline as shown on the field inspection photos had not, in every instance, been applied to the map manuscript.

All shoreline revisions are shown in red acid ink.

35. Hydrographic control

The positions of the hydrographic and topographic stations were verified. Two hydrographic stations, numbers 1017 and 1028, were changed in position about 0.8 mm.

44. Comparison with existing topographic surveys *quadrangles*

Tualatin, Oregon, USGS, 1:62,500, 1914	
" " " USE " 1938-39	
Mount Angel, Oregon, USGS, 1:62,500, 1921	
" " " USE, " 1938-39	



45. Comparison with nautical charts

There are no nautical charts in the area of this map manuscript.

Reviewed by:

*K. N. Maki*  
K. N. Maki  
9-15-47

Reviewed under direction of:

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

APPROVED BY:

*B. G. Jones 12/47*  
Technical Assistant to the  
Chief, Div. of Photogrammetry

*J. E. Rutledge*  
Chief, Nautical Chart Br.  
Division of Charts

*K. T. Adams*  
Chief, Div. of Photogrammetry

*C. K. Green*  
Chief, Div. of Coastal Surveys  
KRG

# GEOGRAPHIC NAMES

Survey No.

T-8810

CHAMPOEG STATE PARK, Oregon

1 Name on Survey

	A	B	C	D	E	F	G	H	K	
✓ Oregon									USGB	1
✓ Marion County										2
✓ Yamhill County										3
✓ Clackamas County										4
✓ Willamette River									USGB	5
✓ U.S. 99W Pacific Highway West										6
✓ State No. 219 Salem Newberg Highway										7
✓ Newberg Wilsonville Road										8
										9
✓ Butteville										10
✓ Butteville Cemetery										11
✓ Butteville School										12
✓ La Butte										13
✓ Champoeg Creek										14
✓ Champoeg										15
✓ Champoeg State Park										16
✓ Champoeg Memorial Monument										17
✓ Champoeg Pioneer Memorial Building										18
✓ Mission Creek										19
✓ Gearns Ferry Road										20
✓ Dogwood Ridge										21
✓ Hess Creek										22
✓ Spring Brook										23
✓ Fernwood										24
✓ Fernwood School										25
✓ Fernwood Grange	?	addition of "Hall" sk'd by L. Heck K.H.M. 6-1-49								26
✓ Sportsman Airport										27

# GEOGRAPHIC NAMES

Survey No. T-8810

2	Name on Survey	A	B	C	D	E	F	G	H	K	
✓	<u>Grouse Butte</u>										1
✓	<u>Parrett Mountain</u>										2
✓	<u>Parrett Mountain School</u>										3
✓	<u>South Fork Corral Creek</u>										4
✓	<u>Middle Fork Corral Creek</u>										5
✓	<u>North Fork Corral Creek</u>										6
✓	<u>Corral Creek</u>										7
✓	<u>Ladd Hill School</u>										8
											9
											10
											11
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Names underlined in red are approved.  
2/10/48. L. Heck

M 234

Names underlined in red are approved.  
2/10/48. L. Heck