

8814

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

Field No. Office No. T-8814

LOCALITY

State OREGON

General locality Willanette River

Locality Wheatland

194 7

CHIEF OF PARTY

R. A. Earle

LIBRARY & ARCHIVES

DATE January 8, 1948

B-1870-1 (1)

8814

RECORD SHEET

Div. of Photogrammetry
Graphic Compilation Sect.

GENERAL LOCALITY Willamette River, Oregon

SHEET NO. T-8814

LOCALITY Wheatland, Oregon

PROJECT NO. Ph-13(46)

PHOTOS ORDERED Dec., 1946 REC'D 14 Jan. 1947

SCALE 1:10,000

PROJECTION ORDERED Dec. 1946 REC'D 3 Feb. 1947

CONTROL:

COMPUTED Harris VERIFIED Davidson

PLOTTED Harris VERIFIED Barron

PHOTO PREPARATION:

CONTROL Harris

AZIMUTHS Davidson

PASS POINTS Letson

TEMPLATES Barron VERIFIED Harris

RADIAL PLOT:

PLOTTED BY Harris DATE 5-9-47

VERIFIED Deal DATE 5-12-47

COMPILATION:

DETAIL POINTS Harris DATE 5-29-47

DETAIL BY Marie Elrod DATE 7-18-47

VERIFIED BY Ree Barron DATE 8-14-47

DATE OF PHOTOS 8-9-46

TIME OF PHOTOS 12:29 to 13:08

Pacific Standard Time

STAGE OF TIDE Water level is a
gradient between the elevations
above M.S.L. of the zeros of the
U.S.E. river gages.

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

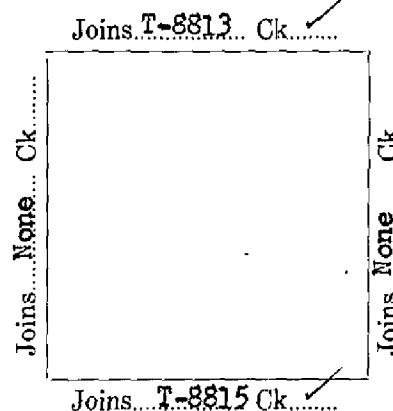
Due to a scale difference only a visual comparison was made with portions of the USGS McMinville, Oregon and Mount Angel, Ore. 15 min. quadrangles. In general the planimetry which is common to the map manuscript and quadrangle maps is in good agreement. It was noticed, however, that a new channel of the Willamette River, which has been cut through just north of Wheatland, Oregon, is not shown on (over)

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 22 August 1947

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



COMPARISONS (CONT'D)

the quadrangle maps. It also appears that the water level of the quadrangle maps is higher than that of the map manuscripts.

DATA RECORD

T- 8814

Quadrangle (II): Mount Angel, Oregon
 McMinnville, "
 (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

Supplemental Instructions: 4 November 1946

Copy filed in Descriptive Div of Photo
 Report No. T- (VI)

grammetry Office File

Completed survey received in office: 8/27/47

Reported to Nautical Chart Section: 9/1/47

Reviewed: 11/12/47

Applied to chart No. —

Date: —

Redrafting Completed:

Registered: 12/26/47

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): WHEATLAND, 1940 r 1947

Lat.: 45° 05' 41.258" (1273.6m) Long.: 123° 03' 57.277" (1252.4) Adjusted x
 Unadjusted

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

X =

Y =

Military Grid Zone (VI)

The adopted water plane is a gradient between 81.2 ft. above M.S.L. (the zero of the river gage at Eldridge Bar) and 91.6 ft. above M.S.L. (the zero of the river gage at Middle Windsor Island). All bench mark elevations are referenced to M.S.L. and are on the Standard 1929 general adjustment of leveling in the U. S. A.

PHOTOGRAPHS (III)

<u>Number</u> <u>Nine Lens</u>	<u>Date</u>	<u>Time</u> <u>P. S. T.</u>	<u>Scale</u>	<u>Stage of Tide</u> <u>Water Level</u>
17283 to 17286 Inc.	8-9-46	12:29	1:10,000	The water level of the photographs is believed to be close to the adopted water plane.
17299 & 17300	"	12:49	"	
17312 & 17313	"	13:08	"	

Tide from (III): None

Mean Range: None

Spring Range: None

Camera: (Kind or source) USC&GS Nine Lens, focal length 8.25 inches

	J. C. LaJoye (Shoreline)	April, 1947
Field Inspection by:	J. H. Winniford (Interior)	date: March, 1947
	J. H. Winniford (Geo. Names)	Feb., 1947

Field Edit by: None

date:

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

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

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

Control plotted by: James L. Harris date: April, 1947

Control checked by: Ree H. Barron date: April, 1947

Radial Plot by: J.L. Harris & J. E. Deal date: 12 May 1947

Detailed by: J. L. Harris & M. B. Elrod date: 18 July 1947

Reviewed in compilation office by: R. H. Barron date: 14 August 1947

Elevations on Field Edit Sheet

checked by: None

date:

STATISTICS (III)

Land Area (Sq. Statute Miles): 19.1 " 8.5 sq. mi. (complete detail)
" (skeleton detail)

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

Shoreline (Less than 200 meters to opposite shore): 12.3 statute miles
(measured along centerline of rivers)

Number of Recoverable Topographic Stations established: 7

Number of Temporary Hydrographic Stations located by radial
plot: 35

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:

MAP T- 887A

PROJECT NO Ph-13(46)

SCALE OF MAP 1:10,000

SCALE FACTOR

None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR μ -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
WHEATLAND, 1940	G 4774 page 536	N. A. 1927	45° 05' 41.258" 123 03' 57.277	1273.6 (578.6) 1252.4 (59.5)		Used in Rad. Pl.	FORWARD-----BACK
PTS 4 (USGS, 1924)						Not searched for	
YAV (USE, 1935)	USE adj. in comp. office	N. A. 1927	45° 04' 30.068" 123 04 14.317	928.2 (924.0) 313.2 (999.2)		Used in Rad. Pl.	
PTS 3 (USGS, 1924)	"	"	45° 04' 11.657" 123 01 05.016	359.9 (1492.3) 109.7 (1202.8)		Used in Rad. Pl.	
ZAX (USE, 1935-36)						Not searched for	
WINDSOR, 1945	G 6734 page 879	"	45° 03' 03.174" 123 04 25.099	98.0 (1754.2) 549.2 (763.7)		Used in Rad. Pl.	
HUBBARD, 1946	G 6734 page 878	"	45° 05' 37.806" 123 00 35.163	1167.1 (685.1) 768.9 (543.1)		Used in Rad. Pl.	
NUG (USE, 1936)						Not searched for	
NEW (USE, 1936)	USE adj. in comp. office	"	45° 04' 27.890" 122 58 37.139	861.0 (991.2) 812.4 (500.0)		Used in Rad. Pl.	
KUB (USE, 1936)						Not searched for	
LEL (USE, 1936)						Not searched for	
XAZ (USE, 1940)	G 4774 page 540	N. A. 1927	45° 05' 41.949" 123 03 56.292	1295.0 (557.2) 1230.9 (81.1)		Used in Rad. Pl.	

1 FT. = 3048006 METER

COMPUTED BY J. L. Harris

DATE March, 1947

CHECKED BY R. A. Davidson

DATE

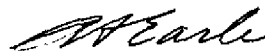
March, 1947

M-2389-12

460

FIELD INSPECTION REPORT
Sheet T-8814 Project Ph-13(46)

1 to 25: All information that is applicable to these side headings is given in the "Field Inspection Report Sheets T-8812 to T-8816 inclusive, Project Ph-13 (46)". This report was included in the "Descriptive Report" for Sheet T-8812, which has been forwarded.



R. A. Earle
Chief of Party

COMPIATION REPORT
Map Manuscript T-8814
Project Ph-13(46)

26. Control:

Seven horizontal control stations were recovered and satisfactorily identified by the field unit in the area of this map manuscript. They were well spaced and were adequate for use in controlling the photographs during the running of the radial plot.

The geographic positions of several traverse stations in the area which had been established or relocated by the U. S. Engineers, were readjusted in the following manner:

The differences between the positions published by the U. S. Engineers and that determined by the U. S. Coast & Geodetic Survey for other stations in the same lines were computed. These differences were then proportioned according to distances between stations and a correction applied to the original position of each traverse station.

The horizontal control stations of all federal agencies which fall in the area of this map manuscript, have been tabulated on Form M-2388-12 which is attached to this descriptive report. A special column headed "Remarks", has been added to the form. In this column a short note has been entered which explains the manner in which the station was used.

The published positions of the U. S. Engineer and U. S. Geological Survey stations which were not searched for by the field unit, have not been shown in the tabulation. These stations were not plotted on the map manuscript.

27. Radial Plot:

This map manuscript is part of Radial Plot No. 2, Project Ph-13(46), which includes Map Manuscripts T-8812 to T-8816 inclusive.

The radial plot was completed in the same manner as described for Radial Plot No. 1 of this project. The methods and a complete discussion of the various operations relative to work on the photographs, templates, and map manuscripts can be found in paragraph 27 of the Descriptive Report for Map Manuscript 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 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 can be found in paragraph 7 of the Field Inspection Report, Sheets T-8812 to T-8816 inclusive. (T-8812)

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 that is a gradient between 81.2 ft. above M.S.L. (the elevation of the zero of the USE river gage at Eldridge Bar) and ~~85.5~~^{87.6} ft. above M.S.L. (the elevation of the zero of the USE river gage at ~~Middle Windsor Island~~^{Lincoln Bar, Oregon})

There are no marsh areas immediately bordering the shoreline.

31. Low Water and Shoal Lines:

The approximate limits of a small shoal area has been detailed as indicated by the field inspection unit.

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

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

There are no details offshore from the mean high-water line within the limits of this map manuscript.

33. Wharves and Shoreline Structures:

The Wheatland Ferry Landings are the only shoreline structures within the area of this map manuscript.

34. Landmarks and Aids to Navigation:

There are no landmarks or fixed aids to navigation within the limits of this map manuscript.

35. Hydrographic Control:

A complete discussion of this subject can be found in paragraph 12 of the Field Inspection Report, Sheets 8812 to 8816 inclusive, Project Ph-13(46), which was forwarded with the Descriptive Report for T-8812.

Deleted from map manuscript

A small (d) has been lettered behind hydrographic signal number 1407 to indicate that the location for this station is doubtful. Since the lists of hydrographic signals for this project have been forwarded to Washington, this doubtful station has been listed herein, so that it may be indicated on the list of hydrographic signals furnished the hydrographic party, for this map manuscript.

It is believed that a sufficient number of well located signals have been established which may be used by the hydrographic party for establishing additional signals at the time the hydrographic survey is made.

A list of thirty-five hydrographic signal sites, which fall in the area of this map manuscript, is attached to the Field Inspection Report, Sheets 8812 to 8816 inclusive, Project Ph-13(46). (T-8812)

36. Landing Fields and Aeronautical Aids:

There are no landing fields or 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 8812 to 8816 inclusive, Project Ph-13(46), which has been submitted. All undisputed and recommended names have been shown on the map manuscript.

Geographic Names Section, Division of Charts

38. Recoverable Topographic Stations:

Photogrammetry File 2

Copies of Forms 524 are being submitted for the following:

HARM (Z-323-3 USE 1943), 1947	LOIA, 1947
IRIS (N-319-2-B USE 1939), 1947	LAND (M-319 USE 1939), 1947
JANE (K-319 USE 1939), 1947	SLIP (AMY reset USE 1935),
KAYE (H-319 USE 1939), 1947	1947

39. Junctions:

Complete and satisfactory junctions have been made between map manuscripts T-8813 and T-8814 and between T-8814 and T-8815.

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:
11 August 1947

J. Edward Deal Jr.

J. Edward Deal, Jr.
Photogrammetric Engineer

Division of Photogrammetry
Review Report of
Shoreline Map Manuscript T-8814

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

26. Control.-

The triangulation station, New, USE, 1936, declared lost, has been deleted from the map manuscript.

28. Detailing.-

Major corrections, made by the reviewer were limited to the shoreline of the Willamette River. The shoreline of numerous lakes and ponds was changed to a thin line to agree with Field Memorandum No. 1. (1938).

A number of field inspection notes that were omitted on the map manuscript have been added by the reviewer.

44. Comparison with Existing Topographic Quadrangles.-

USGS, McMinnville, Ore., 15' quadrangle, 1924,
scale 1:62,500.
USE, McMinnville, Ore., 15' quadrangle, 1947,
scale 1:50,000.

At approximate latitude $45^{\circ}05'30''$ and longitude $123^{\circ}02'40''$ a power line crossing does not appear on either of the quadrangles.

The shoreline of the Willamette River on both quadrangles is superseded by that on the map manuscript. For further information see the Record Sheet.

45. Comparison with Nautical Charts.-

There are no nautical charts in this area.

Reviewed by:

Reviewed under direction of:

B. Thomas Hynson
B. Thomas Hynson
12 November 1947

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

APPROVED BY:

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

J. H. Hurling
Chief, Nautical Chart Br.
Division of Charts

K. T. Adams
Chief, Div. of Photogrammetry

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

GEOGRAPHIC NAMES

Survey No.

T-8814

WHEATLAND, Oregon

1 Name on Survey

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

A

B

C

D

E

F

G

H

K

Oregon

USGB

1

Marion County

2

Polk County?

3

Yamhill County

4

Willamette River

USGB

5

Oregon Electric

6

State No. 219 Salem Newberg Highway

7

State No. 221 Dayton Salem Highway

8

9

Buena Crest School Dist. No. 134

10

French Prairie (large area, on several sheets)

11

Hopmore

12

Wheatland Road (both sides of river)

13

Eldriedge School

14

Hubbard Lake

15

Mission Bottom

16

Mission Lake

17

Goose Lake

18

Finney and Egan Lake

19

Mission Bottom School Dist. No. 36

20

Clear Lake

21

Windsor Island

22

McCloskie Bar

23

Upper Simon Bar

24

Lower Simon Bar

25

Lone Tree Bar

26

Spring Valley (continued from T-8815)

27

GEOGRAPHIC NAMES

Survey No. T-8814

GEOGRAPHIC NAMES		Survey No. T-8814									
		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	
	Spring Valley Creek									1	
	Spring Valley School									2	
	Western Menonite School									3	
	Hopewell									4	
	Hopewell School Dist. No. 49									5	
	Seventh Day Adventist School									6	
	Hopewell Seventh Day Adventist Church									7	
	Wheatland									8	
	Wheatland School Dist. No. 20									9	
	Wheatland Community Hall									10	
	Wheatland Ferry		Wheatland	Road						11	
	Wheatland Bar									12	
	Wheatland Dam									13	
	Aquatic Gardens									14	
	Lambert Slough									15	
	Grand Island									16	
	Old river channel									17	
	Matheny Bar									18	
	Eldridge Slough									19	
	Capitol Hop Farm									20	
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Names underlined in red are approved
2/10/48. L. Hecker