8664 8665

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-8664 &

Field No. Office No. T-8665

LOCALITY

State OREGON & WASHINGTON

General locality Multnomah County, Oregon
Clark County, Washington
Locality Reeder Point, Columbia River &
Shillapoo Lake

194 7

CHIEF OF PARTY

R. A. Earle

LIBRARY & ARCHIVES

DATE Dec 4-19.47

B-1870-1 (I)

8664 8665

DATA RECORD

T-8664

Quadrangle (II): REEDER POINT, OREGON

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 Copy filed in Descriptive Supplemental Instructions: Aug. 29, Sept. 10, Report No. T-Oct. 25, Nov. 30 and Dec. 6, 1945

Div. Phologram. Office Files

Completed survey received in office: 27 Law. 1947

Reported to Nautical Chart Section:

Reviewed: 28 Mar. 1947 Applied to chart No. Date:

Redrafting Completed: 18 Aug. 1947

Registered: 220ch, 1947 11/47 Published: 1947

Compilation Scale: 1:8000

Published Scale: /: 9600

Scale Factor (III): None

Geographic Datum (III): N.A. 1927

Datum Plane (III): * See below

Reference Station (III): W-TEN-2 (USE) Ore. 1912 r 1946

Lat.: 45° 43' 26.593" (821.0m) Long.: 122° 46' 19.027" (414.5m) Adjusted X Unadjusted

State Plane Coordinates (VI): Oregon North

X = 1,419,826.06 feet Y = 758,230.98 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) A 11 elevations are on the Standard 1929 general adjustment of leveling in the U.S.A.

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide	
			1:17000 contact	;	
631 to 634	Inc. 6-30-45	14:45	1: 8000 ratio	11.9 ft. above M	L.W.
670 to 673	" 7- 1-45	10:15	tt [*]	11.7 ft. "	п
3561 to 3564	" 11-21-45	14:15	tt	4.9 ft. "	17
3576 to 3579	" 11-21-45	14:15	Ħ	4.9 ft. "	
1391 to 1399	" 7- 10-45	10:30	1: 5000 contact	9.9 ft. "	ti

Daily readings of the U.S. Engineer 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 1.29 ft. above Mean Sea Level, which is M.L.W. Tide from (III): Columbia River. Spring Range:

date:

Mean Range:

K 17, focal length 12 inches

Camera: (Kind or source)

Field Inspection by: See remarks, page 3

Field Edit by: F. H. Elrod, Prin. 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 r	uled by	(III)	Washington	Office	date: June,	1946
----------------	---------	---------	-------	------------	--------	-------------	------

checked by: Washington Office date: June, 1946 Control plotted by: Eda H. Bunce date: Sept., 1946 date: Sept., 1946 Control checked by: Richard Foster

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

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

Reviewed in compilation office by: R. A. Davidson date: Dec. 5, 1946 Corrections and changes after field edit by: M.B. Elrod date: Jan. 13, 1947 Review after changes due to field edit by: Ree H. Barron date: Jan. 16, 1947 Elevations on Field Edit Sheet date: Jan. 1947 checked by: Charles Hanavich, Topographic Engineer

STATISTICS (III)

Land Area (Sq. Statute Miles): 5.5

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

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

Number of Recoverable Topographic Stations established: 6 (all are fixed aids to navigation)

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles:

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

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

Remarks:

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

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

Sept., 1945

Recovery of Horizontal Control by: J. C. LaJoye date: April, 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
Jan. 8, 1947

GENERAL LOCALITY Sauvie Island, Cregon	ι	SHEET NO.	-8664
LOCALITY Reeder Point, Columbia River 8-11, 9-24-45 PHOTOS ORDERED 1945 REC'D 1-21-46	r	PROJECT NO	
PROJECTION ORDERED May 1946 REC'D 6-21-46		Joins T-8660 C	k
CONTROL: COMPUTED Foster VERIFIED Bushnell	Ck ✓		
PLOTTED Bunce VERIFIED Foster	:		65 C
PHOTO PREPARATION: CONTROL BunceBushnell	JoinsT8663		JoinsT8665 CK
AZIMUTHS Davidson	Joins		Joins
PASS POINTSBunce		Joins T-8668 C	k
TEMPLETSSherwood VERIFIED Harris		_	
RADIAL PLOT: PLOTTED BY Harris DATE 10-7-46		E OF PHOTOSSe	
VERIFIED Deal DATE 10-11-46	*********		
COMPILATION: DETAIL POINTS M. B. Elroddate 10-16-46	STAG	SE OF TIDE	11
DETAIL BY MABA Elrod DATE 10-29-46	*******		
VERIFIED BY R.A. DavidsonDATE 12-5-46	*********		
COMPARISON WITH PREVIOUS SURVEYS; TOPO., I	HYDRO.,	AND CHARTS:	
Due to scale difference only a visual compar	ison was	made with the U	SGS Hills-
boro, Ore Wash., 15 min. quadrangle, Scale	e: 1:6250	00. Differences	were noted
along both shores of the Columbia River which	h in most	t cases is due t	o the dump-
ing of spoil, and on Sauvie Island where exte	ensive di	rainage operatio	ns have
been in progress since the quadrangle was re-	de.	(over)	
REMARKS			
All corrections and additions which were four	nd during	g the field edit	were applied
to the map manuscript. A final compilation	office re	eview was then m	ade,
,,,			
FORWARDED TO Washington Office I	DATEJ	anuary 20, 1947.	•••••••••••
	Ŕ.	. A. Earle	M-2305-12

Chief of Party

COMPARISONS (cont.d.)

In general, the planimetry common to the map manuscript and quadrangle is in agreement.

Comparison was made with the black line prints on clear acetate of previous topographic surveys No's. 6571b and 6572, Scale: 1:10,000, enlarged to a scale of 1:8000. In many places the shorelines of the Columbia River has either been built up, due to the dumping of spoil, or eroded. Much of the shoreline common to the map manuscript and topographic survey sheets is however, in excellent agreement.

Comparison was made with Nautical Chart No. 6154, Scale: 1:40,000, by use of the vertical projector. The same differences as noted in the comparison with the topographic surveys were noticed and in addition, there are many pond areas on Sauvie Island which have been reclaimed since the chart was made.

PHOTOGRAPH DATA

Number	•	<u>Date</u>	Time	<u>Scale</u>	Stag	e of Tide
I				1:17000 contact		
631 to 634	Inc.	6-30-45	14:45	1: 8000 ratio		Above M.L.W
670 to 673	ti	7- 1-45	10:15		`11.7 ft.	11 11
3561 to 3564	Ħ	11-21-45	14:15	u	4.9 ft.	11 11
3576 to 3579	Ħ	11-21-45	14:15	11	4.9 ft.	ti ii
1391 to 1399	r#	7-10-45	10:30	1: 5000 contact	9.9 ft.	11 11

DATA RECORD

T- 8665

Shillapoo Lake, Clark Co., Project No. (II): CS-322 Quadrangle (II):

Washington (3 minute)

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

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

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

Completed survey received in office:

Reported to Nautical Chart Section:

Date: Reviewed: 18 Apr. 1947 Applied to chart No.

Redrafting Completed: 3 Lune, 1947

Registered: 23 Oct 1947 11/47 Published: 1947

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

Scale Factor (III): None

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

Reference Station (III): ROBINSON, 1946

Lat.: 45° 43' 40.625" (1254.2m) Long.: 122° 43' 50.528" (1092.6m) Adjusted Unadjusted X

State Plane Coordinates (VI):

Y = X =

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)

Numbe	r	Date	Time	Scale	Stage of	f Tide	<u>.</u>
468 to 47 <u>1</u> 828 to 832 847 to 859	π	6-30-45 7- 1-45 7- 1-45	12:00 12:50 13:20	1:17000 contact 1: 8000 ratio . "	11.9 ft. 11.7 ft. 11.7 ft.	above "	M.L.W.
Nine lens		11-21-45	13:00	1:15000 contact	5.0 ft.	. 11	Ħ

Daily readings of the U.S. Engineer tide gauge located at Government Moorings on the west shore of the Willamette River Tide from (III): just south of St. Johns Bridge. The 0+00 of the gauge is 1.29 ft. above Mean Sea Level, which is M.L.W. Columbia River.

Mean Range:

Spring Range:

Camera: (Kind or source) K 17, focal length 12 inches
U.S. Coast & Geodetic Survey 9 lens, focal length 8.25.

Field Inspection by: See remarks, page 3

date:

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

date: Dec., 1946

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: Eda H. Bunce

date: Sept., 1946

Control checked by: Helen L. Letson

date: Sept., 1946

Radial Plot by: James L. Harris & J. E. Deal

date: Sept. 19, 1946

Detailed by: Carita C. Wiebe

date: Nov. 4, 1946

Reviewed in compilation office by: R. A. Davidson Corrections and changes after field edit by: Carita Wiebe Review after changes due to field edit by: Ree Barron

date: Jan. 15, 1947 date: Jan. 17, 1947

date: Dec. 12, 1946

Elevations on Field Edit Sheet

date: Dec., 1946

checked by: Charles Hanavich, Topo. Engineer

STATISTICS (III)

Land Area (Sq. Statute Miles): 7.0

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

Shoreline (Less than 200 meters to opposite shore): 12.0 statute miles

Number of Recoverable Topographic Stations established: 3 (1 landmark and 2 topographic stations)

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles:

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

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

Remarks:

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

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

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

GENERAL LOCALITY Clark County, Washi	ngton SHEET NO. T-8665
LOCALITY Shillapoo Lake	PROJECT NO. CS-322
8-17, 9-26-45 PHOTOS ORDERED Aug. 1945 REC'D 6-21-46	SCALE 1:8000
PROJECTION ORDERED NAY 1946REC'D 6-21-46	Joins.T-8661. Ck
CONTROL: COMPUTED Harris VERIFIED Bunce	ž Š
PLOTTED Bunce VERIFIED Letson	
PHOTO PREPARATION: CONTROL Harris	Joins. T. 8664
AZIMUTHSDavidson	Joins.
PASS POINTSBunce	Joins T-8669 Ck
TEMPLETS Sherwood VERIFIED Harris	
RADIAL PLOT: PLOTTED BY Harris DATE 9-13-46	DATE OF PHOTOS See reverse S
VERIFIED Desl DATE 9-19-46	
COMPILATION: DETAIL POINTSWiebe DATE10-11-46	STAGE OF TIDE
DETAIL BY Wiebe DATE 11-4-46	
VERIFIED BY Davidson. DATE 12-12-46	
COMPARISON WITH PREVIOUS SURVEYS; TOPO.,	HYDRO., AND CHARTS:
Due to scale difference only a visual compa-	rison was made with the USGS Portla
Oregon - Washington, 15 min. quadrangle, Sca	ale: 1:62500. On the quadrangle mo
a road, which parallels the northeast shore	line of Shillapoo Lake, could not b
found on the ground, Mundays Ferry has been	abandoned, and the high-water line
in Salmon Creek is in error. Elsewhere, the	e common planimetry of the map (or
REMARKS	
All corrections and additions which were for	und during the field edit were appl
to the map manuscript. A final compilation	office review was then made.
FORWARDED TO Washington Office	DATE January 20, 19/7
	R. A. Earle M-2305-11
	Chief of Party

COMPARISONS (cont'd)

manuscript and quadrangle is in fair agreement.

Comparison was made with Nautical Chart No. 6154, Scale: 1:40, 000, by use of the vertical projector, and in most places the high-water line is in agreement. On the chart, parts of the Lake River are not in their correct geographic position and the interpretation of the high-water line of Salmon Creek appears to be in error. There are many marsh and pond areas between Shillapoo Lake and Round Lake which are not shown on the chart.

PHOTOGRAPH DATA

Number	Date	Time	Scale	Stage	of Tide	9
468 to 471 Inc.	6-30 - 45	12:00	1:17,000 contact 1: 8,000 ratio]].9 ft.	above	M.L.W.
828 to 832 "	7- 1-45	12:50	, u	11.7 ft.	11	11
847 to 859 " Nine lens	7- 1 - 45	13:20	1: 5,000 contact]1.7 ft.	rı	11
151.23	11-21-45	13:00	1:10,000	5.0 ft.	11	ŧŧ

FIELD INSPECTION REPORT T-8664 and T-8665 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-8669 and T-8670. This Descriptive Report has been submitted.

Approved by:

Robert A. Earle

Athelt arle

Chief of Party

Respectfully submitted:

Charles Hanavich Charles Hanavich

Topographic Engineer

Amendment to Pile 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 hus 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 C5-322 are now filed in the Bureau Archives, rather than according to the red notes in the Lescriptive Reports:

4.	Specia	al Reports;	400	of ass	•
		Investigation of Boundary Honuments and Land Lines for Radial Plots 1, 2, 3, and 4	CS-3227	Rept.	1
	2.	Radial Plots 1, 2, 3, and 4	7	*	2
	3.	Legal descriptions of boundaries	**	种	3
	Į.	Field Inspection for plats 1, 2, 3, and 4	***	#	Į,
В.	Сомри	estions: Triungulation and Traverse	943/017	0-67	85
ċ.	Field	records:			
,	1.	Horisental Angles (form 250) 12 vol.	943/0H	8-708	2
	2.		943/GB	0-708	3
•	3.	Descriptions (form 525) and recoveries (form 526)	943/GA	G-678	6
	4.	Pricking cards (form M-982-1) for tri. and Trav.	Div. of Concral		raamê te
	5.	Recoverable Topographic stations (form 524)		Photo	grammet.
-		444	***		

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.

January 1951

COMPILATION REPORT MAP MANUSCRIPTS T-8664 and T-8665 PROJECT CS-322

26. Control:

At the time this project was started there were forty-eight horizontal control stations in the area of these two map manuscripts. Nine of these stations were recovered and five were identified on the photographs for use in the radial plot. In order to satisfactorily control the photographs, two permanent triangulation stations were established in the area of Quadrangle T-8665.

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.

Photogram. General Files under "Special Reports."

The two new triangulation 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.

**Tiled 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 descrepancy 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 map, which was forwarded to the Washington Office on 14 January 1947, was used to supplement the photographs:

Sheet 12, 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 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 unit indicated several small areas which bare at low-water. They have been shown enclosed in a dotted black acid ink line and appropriately noted. The field inspection unit did not indicate any shoal areas.

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-8664, Forms 567 are being submitted for the following:

KNAPP POINT LIGHT
WILLOW BAR RANGE FRONT LIGHT
WILLOW BAR RANGE REAR LIGHT,
(Triangulation Station).

WILLOW BAR "3" LIGHT
-WILLOW BAR DIKE LIGHT
REEDER POINT LIGHT
-HUTCHINSON DIKE LIGHT

In the area of Map Manuscript No. T-8665, Forms 567 are being submitted for the retention of Nautical Landmark "FELIDA AVIATION > BEACON", on Nautical Chart No. 6154.

35. <u>Hydrographic Control</u>:

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 the Lake River for use during future hydrographic surveys.

36. Landing Fields and Aeronautical Aids:

There are no landing fields within the area of these two map manuscripts. Form 567 is being submitted for the retention of "FELIDA AVIATION BEACON" as an Aeronautical Aid on Chart No. W - 1.

37. Geographic Names:

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

38. Recoverable Topographic Stations:

In the area of Map Manuscript No. T-8664 copies of Forms 524 are being submitted for the six fixed aids to navigation, listed in Paragraph 34, which are not triangulation stations.

In the area of Map Manuscript No. T-8665 copies of Forms 524 are being submitted for the following:

SILO, 1946 - NORTHWEST CUPOLA, 1946 - FELIDA AVIATION BEACON, 1946

33. Warved and Shore ine Structures:

Piers, wherves, do'phins, dikes, etc., have been shown.

34. Isnd aries and Aids to Navigation:

In the area of Map Lanuscript No. T-866%, Forms 567 are being submitted for the Following:

MARF FORT MEGHT WILLOW LAND BROWN LAND LAND, MILLOW MAR RANGE HAND LAND, (Printerland Station Station).

TILLOW BAR USE LIGHT WILLOW BAR DING LIGHT RESULT FROM LIGHT LIGHT

Special Report: Investigation of Boundary Monuments and Lines... Area of the Fourth Radial Plot. Filed in DIN Photogram, Gen Files under "Special Reports."

35. Badrouranhio 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 the Lake River for use during future hydrographic surveys.

36. Landing Fields and Aeronautical Aids:

There are no landing fields within the area of these two map manuseripts. Form 567 as being submitted for the retention of "Fills AVIATION MINCOLN" as an Aeronautical Aid on Chart No. W - 1.

37. Geographic Lanes:

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

38. Recoverable Topographic Stations:

In the area of Map Manuscript No. I-8664 copies of Forms 524 are being submitted for the six fixed alds to navigation, listed in Faragraph 34, which are not triangulation stations.

In the area of lap lanuscript No. T-8665 copies of Forms 524 are being submitted for the Following:

SILO, 1946 - MORTHIEST OUPDIA, 1946 - PELEDA AVIATION ISAGON, 1946

39. Junctions:

Complete and satisfactory junctions have been made between Map Manuscripts No's. T-8664 and T-8665, 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.

by whated

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:

Mohit Earle Robert A. Earle Chief of Party Respectfully submitted: January 17, 1947

J. Edward Deal, Jr. Photogrammetric Engr.

FIELD EDIT REPORT QUADRANGLES T-8664 and T-8665 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. The additional names and numbers of roads were obtained and verified from official signs. Special attention was given to the various notes on the map manuscripts calling the field editor's attention to features which the Compilation Office had considered questionable. Several dikes, which were delineated in the office by stereoscope, were deleted. Several drainage ditches, which were recently constructed (in T-8664) were located by planetable methods or field measurements on the field photographs. As a result of this several intermittent and perennial ponds were drained.

All the shoreline features were checked. Reeder Point Light, which was rebuilt, was indicated by the field editor on field photograph 632. It is to be noted that the various low land areas, unprotected by dikes and noted on the field edit sheets, become flooded during the annual freshets or out of season floods. 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. Bernard Morris, County Surveyor of Clark County, Vancouver, Washington. Sheet T-8664 was examined, also, by Mr. George B. Stocks of the U. S. Soil Conservation, Box 116D, Portland, Oregon. The geographic names in this area have been reviewed by Mr. Lewis A. McArthur, Collaborator for the U.S. Coast & Geodetic Survey

48. Accuracy Tests:

No horizontal accuracy tests were run in this area. For map accuracy tests near the area of these map manuscripts refer to the Field Edit Reports for Quadrangles T-8675 and for T-8679 to T-8681 inclusive.

49. Bench Mark Elevations:

The elevations of the bench marks shown on these sheets have been checked.

Donation Land Claim and Section Lines:

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

Field Edit reviewed by:

Charles Hamarick Charles Hanavich, Topographic Engineer Field Edit by:

F. H. Elrod, Prin. Photo. Aid

Approved by:

R. A. Earle

Chief of Party

Marle

Division of Photogrammetry

Review Report

Planimetric Survey Manuscript T-8664.

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

26. CONTROL

The field party recovered nine triangulation stations and considered fourteen lost in the area of this survey. Additional stations located in the same area, all established approximately sixty-five years ago, were not plotted by the reviewer since no descriptions were available.

28. DETAILING

Corrections, made during review, have been shown on the manuscript in brown acid ink.

37. STATE LINE, OREGON-WASHINGTON

A note has been placed on the manuscript indicating that a portion of this state line is indefinite. The state line is said to follow the main channel of the Columbia River. However, there is no clearly defined channel along this shore.

41. DONATION LAND CLAIM AND SECTION LINES

The section lines have been straightened between recovered corners and are in a position approximating their original layout as shown on the General Land Office plats. Since much of the land in this area has built up since the original surveys, the land lines have been cut back to cover only the area of the land at the time of the original surveys. The Horace J. McIntire D.L.C. was not shown on the map manuscript, nor was it listed in the special report, "Investigation of Boundary Monuments and Lines, Area of the Fourth Radial Plot," but since it was clearly shown on General Land Office plat No. 8 it has been added. Four other claims that show on the General Land Office plats have not been added but they have been shown on the ozalid print forwarded to Lt. Comdr. Earle. Lt. Comdr. Earle has been asked to state whether or not these claims are existing.

44. COMPARISON WITH EXISTING TOPOGRAPHIC SURVEYS

U.S.G.S.-Hillsboro, Oreg.-Wash. 15' quadrangle, scale 1:62,500, surveyed in 1915 - fair agreement.

U.S.E.-Revision of above quadrangle - 1939-1940. This quadrangle is in good agreement with T-8664.

Both of these quadrangles are superseded by T-8664 in common areas.

44a. COMPARISON WITH TOPOGRAPHIC SURVEYS BY THE BUREAU

T-1562	1:20,000	1884
T-6572	1:10,000	1937
T-6571b	1:10,000	1937

The above surveys and the map manuscript were compared with the aid of the vertical projector. The west shoreline in the area of the bluffs was in very good agreement with the mpa manuscript. The west side of the river was generally in better agreement than the east side. Addition of spoil banks, erosion and other factors have changed the shoreline since the time of the above surveys.

45. COMPARISON WITH NAUTICAL CHARTS

This survey has not been applied to nautical charts.

Reviewed by: .

Reviewed under direction of:

Harold R. Brooks

Photogrammetrist

S. V. Griffith 10 am

Chief, Review Section

APPROVED BY:

BG goves 11/47

Technical Assistant to the Chief, Div. of Photogrammetry

Chief, Nautical Chart Branch

Division of Charts

Chief, Div. of Photogrammetry

Chief, Div. of Coastal Surveys

Division of Photogrammetry

Review Report of

Planimetric Map Manuscript T-8665

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

26. CONTROL:

One permanent triangulation station was established in the area of this survey. The second one, mentioned in the compilation report, is located to the east of this survey and outside the limits of the project.

28. DETAILING:

Corrections made to the manuscript, during review, are shown in brown acid ink. 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 section lines have been straightened between recovered corners and are in a position approximating their original layout as shown on the General Land Office plats.

It was necessary to make adjustments to all the donation land claims on this manuscript. Two claims, belonging to W. D. Patterson and S. Mathews, were omitted entirely. These claims had been shown as parts of the Wm. Green and Christian Pouli claims respectively. The name Pouli is spelled Powley on the G.L.O. plat covering this area, and John Stanley is shown as Joseph Stanley on the plat. The special report, "Investigation of Boundary Monuments and Lines, Area of the Fourth Radial Plot," agrees, in the spelling of names, with the manuscript.

44. COMPARISON WITH EXISTING TOPOGRAPHIC SURVEYS:

U.S.G.S., 15' Quadrangles, Portland, Oreg.-Wash., scale 1:62,500, Surveyed in 1896, Edition of 1905

U.S.E. Revision of same quadrangle - 1939, 1940

Both of these surveys are superseded by T-8665 in common areas.

COMPARISON WITH NAUTICAL CHARTS, HYDROGRAPHIC AND

This manuscript has been visually compared with Chart #6154 and supersedes this chart and the hydrographic and topographic surveys of the area as far as their common planimetry is concerned.

The manuscript has not been applied to nautical chart #6154 as of the date of this report.

Reviewed by:

Reviewed under direction of:

Harold K. Brooks Photogrammetrist

18 April 1947

APPROVED BY:

Technical Assistant to the Chief, Nautical Chart Chief, Div. of Photogrammetry Division of Charts

Chief, Div. of Photogrammetry Chief, Div. of Coastal Surveys

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

Project 03-322 T-8664

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED

STRIKE OUT ONE

January 14, 1947

The following fixed sids to navigation 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 by Amad

1				,		=		=	*	=		THOM	CHARTING	STATE OR	
		June .	1249		1	Fl. R., 4 Seconds	FI. W., 4 Seconds (same location)	Fl. W., 4 Seconds	10	WILLOW BAR RANGE REAR F.W.	F1. W., 4 Seconds	MAPP POINT F.W.	DESCRIPTION	OREGON & WASHINGTON	
				ة الح الح		=	=	=	-	=		TIGHT	SIGNAL		
						45 42	45 42	45 43	45 44	45 44	5 4	45 14	0	LATITUDE	
					- 14.	1.8	1074.8	874.4	567.6	1174.4	(903.4)	(500.0)	D. M. METERS		
						122 46	122 46	122 45	122 45	122 45	122 45	122 45	0 -	LONGITUDE	
						(815.1)	232.7	1252.8	(804.3)	(864.3)	(807.2)	597.4	D. P. METERS	TUDE	
						==	-	=	=	3	•	1927	DATUM		ED.
							•	=	Radial Plot	riangu-		Radial Flot	SURVEY No	METHOD OF LOCATION AND	. Earle
						5-8-46	1-17-46	==	4-9-46	1913		1-9-16		DATE	
						×	×	м	×	м	Þ4	м	INSH	OR CHART ORE CHART	Chie
						•	•	•	•	•		67.54		CHARTS	Chief of Party.

This form shall be prepa d in accordance with Hydrographic Manual, pages 800 to 804. Positions of the ted 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.

	GEOGRAPHIC NAMES Survey No. 1-8664 and 1-8665 Name on Survey A B C D E F G H K	/
	Names on both sheets:	
	Washington V	2
	Clark County /	3
\mathcal{L}	Round Lake	
•	. Control of the cont	. 4
		6
		1
	_ 0(()	7
	T-8664:	8
	oregon .	9
	Multnomah County V	10
	Columbia County	11
	Columbia River	12
	Washington Side of river:	13
	OK Brown Lending Comit except as unno of D)	14
1	Willow Bar 3 Light	15
~	Willow Bar Range Front Light	16
	v Willow Bar Range Reer Light	17
·-	Knapp Point	18
·-	Knapp Point Light	19
α	Post Cffice Lake	20
		21
_	Oregon Side of river Resident Frint:	22
	Sauvie Island Reeder Road	23
V	Willow Bar Dike Light	24
/	Sturgeon Lake Reeder Point	25
/	Reeder Point Light (see note re destruction and reconstruction)	26
/	H tohinson Dike Light	27
. · -		M 234
		1

79

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY c/o Swan Island Postal Station Portland 18, Oregon



POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

20 August 1947

To:

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

Subject:

W. D. Patterson and S. Mathews Tracts

Reference:

Your Letter, 78-aar, dated 8 August 1947

In reply to the above reference the W. D. Patterson and S. Mathews Claims were again investigated and it was found that the W. D. Patterson Claim is a subdivision of the original Ira Patterson Donation Land Claim. It should, therefore, be deleted as shown on the ozalid print of <u>T-8665</u>. The S. Mathews Claim was a legal claim but not a donation land claim. As its boundaries are purely property lines, it is recommended that it be deleted on both T-8665 and T-8669.

This S. Mathews Claim had not been deleted on T-8669 because all information pertaining to this claim had been forwarded to your office when T-8665 was investigated and it was assumed that you had reasons for ignoring our original recommendation for deletion.

Both Assessor and County Surveyor of Clark County, state that these claims are not shown in their records as original donation land claims.

Answers to other questions in the above reference have been placed on the attached prints.

R. A. Earle

Lt. Comdr., USC&GS Chief of Party KTA 7HM 788-->

POST-OFFICE ADDRESS:

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
c/o Swan Island Postal Station
Portland 18, Oregon

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

1 May 1947

To:

Chief, Division of Photogrammetry U. S. Coast & Geodetic Survey

Washington 25, D. C.

From:

Lt. Comdr. R. A. Earle

Subject:

Review and Smooth Drafting of Map Manuscripts T-8663,

T-8664 and T-8665

Reference:

Your Letter 711-RCR dated 23 April 1947

With regard to the above reference, the reviewed map manuscripts were received after the metal mounted blueline prints had been forwarded to Washington. We are therefore, returning the map manuscripts this date so that the bluelines can be corrected.

It is strongly felt that the method used in Washington of correcting the map manuscripts by drawing straight land lines between recovered corners, in accordance with ancient G.L.O. plats, is wrong for large scale maps. This is due to the fact that the lines were far from . straight and even though the corners may have been lost for fifty years, local information and exhaustive search in county files and in the field often establishes the recognized position of a corner or line and the straightening or moving of lines in the review section, just throws out this local information. For example both the writer and Mr. Deal studied the adjustment of lines on the above listed map manuscripts and, because the G.L.O. plats are inaccurate, found that they could be adjusted in several different ways. Our recommendation would be to leave them as Mr. Ervast (who as previously stated left the organization three months ago) listed them because he studied many old surveys and contacted people in the area. Without an exhaustive search, we cannot disprove the new location, particularly as we have no record of the original location, except for lines which appear scratched out on the map manuscript.

Due to the fact that the ozalid prints of most of the map manuscripts were made prior to the location of these lines, we have no record of our original lines in this office. It is therefore requested that in the future, an ozalid print of the map manuscript be made in your office and the lines be reviewed and changes made in red ink, on said print. By doing this we know exactly what changes have been made and can more readily verify or disprove these changes. An example of the difficulties encountered is evident on sheet T-8686. In this case a black ozalid showing revised lines in black was forwarded so we have absolutely no manner of knowing what changes were made.

The section lines in the area of the above three map manuscripts may be adjusted in several different ways. The lines shown on the map manuscripts were the result of exhaustive investigation by the field unit and information obtained from persons who know conditions in this area. It is felt that changes should not have been made, however, this office cannot disprove the new locations without exhaustive search.

An ozalid print of T-8664 is being returned on which several notes have been made in answer to questions by the reviewer on Donation Land Claims in that area.

R. A. Earle Chief of Party

Juffth
Jor the vernander of this project

Where charges in land lines are very

to Portland for verification to see to

wend the Jula tolif wheel or other

why of the original manuscrift as well

as a veriend copy. I also verypuf

will rend any photos whowing held

work on the land lines to him

to assist in verying our charges

This letter spises the question of whether we are moting too many changes? I'm any particular core wales you ful sure of and the severies perhops we whould left the line whould as originally compiled.

Alean make this letter part of the uplant on halferies

41.

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY c/o Swan Island Postal Station Portland 18, Oregon

File T-8665

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

Ö

7 March 1950

To:

The Director

U.S. Coast and Geodetic Survey

Washington 25, D.C.

Subject: Position of Felida Aero Beacon on T-8665

As requested in letter No. 78 rs, dated 21 February 1950, Felida Aero Beacon was visited to verify its position.

The beacon is at the position shown on Map T-8665. N-W cupola was not visited but is visible from the beacon. Both objects are properly labeled on the map.

The position of the beacon on attached form 524 is therefore correct and the position on attached form 567 incorrect. Form 567 was corrected to agree with Form 524.

Forms 524 and 567 and Map T-8665 are returned herewith.

Lt. Comdr.-USC&G Survey Chief of Party

This information does not affect the map and all records have been corrected in conformance with this

NAUTICAL CHARTS BRANCH

SURVEY NO. <u>78664</u>, 8665

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
5/25/48	6154	Risegari	Before After Verification and Review Bartially appla
			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

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.