# 8654 8655

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-8654 &
Field No. CS-322 Office No. T-8655
Horiz. Acc'y Test.

#### LOCALITY

State Oregon

General locality Columbia County

Locality Warren and Scappoose Bay

194 7....

CHIEF OF PARTY

R.A. Earle

LIBRARY & ARCHIVES

DATE Dec 4-1947

B-1870-1 (1)

8654 8655

#### RECORD SHEET

Div. of Photogrammetry Graphic Compilation Sect.

	GENERAL LOCALITY Columbia County, Oregon		SHEET NO. T-8654
	LOCALITY Warren, Oregon		PROJECT NO. CS-322
	9-24,26-45		SCALE 1:8000
	PHOTOS ORDERED Aug. 1945 REC'D 1-21-46		SCALE
	PROJECTION ORDERED June 146 REC'D 7-23-46		Joins None Ck
) to	CONTROL:		7
	COMPUTED Bunce VERIFIED Harris	Ç	QR 1
	PLOTTED Bunce VERIFIED Davidson	None	255
	PHOTO PREPARATION: CONTROL Sherwood, Harris		38
	AZIMUTHS Davidson	Joins	Joins. T8655
		اجا	A SUPPLEMENT OF THE PARTY OF TH
	PASS POINTS Bunce, Harris		Joins T-8658 Ck
	TEMPLETS Elrod VERIFIED Bunce	DATE	OF PHOTOS See reverse side
	PLOTTED BY Davidson DATE 11-18-46	TIME	OF PHOTOS
	VERIFIED Deal DATE 11-19-46		
	COMPILATION: DETAIL POINTS Elrod DATE 12-12-46	STAG	E OF TIDE
	DETAIL BY Elrod DATE 1-15-47		
	VERIFIED BYDavidsonDATE1-24-47		
	COMPADISON WITH DEFINING SUDVEYS, MODO, MYD		AND GUADTO.
	COMPARISON WITH PREVIOUS SURVEYS; TOPO., HYD  Due to a scale difference only a visual comparison		
	OregWash., 15 min, quadrangle scale: 1:62500.		
	common to the map manuscript and quadrangle map i		
	shown on the quadrangle map is at a higher water		
	manuscript. Nautical Chart No. 6754 does not inc	e ude	the small portion of (over)
	REMARKS		
	All corrections and additions which were found du		
	to the map manuscript and a final compilation off	fice r	eview was then made.
	FORWARDED TO Washington Office DAT	`E	19 March 1947
		B	A Farle M-2305-12
		Ch	nief of Party

#### COMPARISONS (cont'd.)

Scappoose Bay which falls within the limits of this map manuscript.

#### PHOTOGRAPH DATA

Number	Date	Time	Scale	Stage of	f Tide
365 to 369 Inc.	6-30-45	10:20	]: 8000 ratio 1:17000 contact	11.9 ft. above	e M. L. W.
1379 to 1382 "	7-10-45	10:30	II .	9.9 ft.	tt .
13 <b>8</b> 7 to 1390 "	7-10-45	10:30	12	9.9 ft.	ίι
3589 to 3592 "	17-21-45	14:45	Ħ	4.9 ft.	11

#### DATA RECORD

т- 8654

Quadrangle (II): WARREW, COLUMBIA CO., ORE. 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): 12 July 1945

Supplemental Instructions: Aug. 29, Sept. 10,
Oct. 25, Nov. 30 & Dec. 6, 1945

Copy filed in Descriptive

Report No. T = (VI)

Div. Photogram. Office Files

Completed survey received in office: 24 Mar. 1947

Reported to Nautical Chart Section:

Reviewed: 5 June 1947 Applied to chart No. Date:

Redrafting Completed: 19 Aug. 1947

Registered: 1//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): WARREN (OREGON), 1903 r 1934, 1946

State Plane Coordinates (VI): Oregon, North Zone

x = 1,396,028.77 feet y = 789,875.83 feet

Military Grid Zone (VI)

\*(M.H.W. = 6.29 ft. above Mean Sea Level, M.L.W. = .129 ft. above Mean Sea Level).

All elevations are on the Standard 1929 general adjustment of leveling in the U.S.A.

V.3

#### PHOTOGRAPHS (III)

Number	Date	<u>Time</u>	Scale	Stage of Tide
•			1:17000 contact	
365 to 369 Inc	. 6-30-45	10:20	1: 8000 ratio	11.9 ft. above M.L.W.*
1379 to 1382 "	7-10-45	10:30	n	9.9 ft. "
1387 to 1390 "	7-10-45	10:30	Ħ	9.9 ft. "
3589 to 3592 "	11-21-45	14:45	11	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 Mean Sea Tide from (III):

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. Ejrod, Prin. Photo. Aid

date: Feb., 1947

Date of Mean High-Water Line Location (III): 21 November, 1945 According to supplemental instructions dated 10 September 1945, a high-water Note: line of 5.0 ft. above Mean Low-Water is to be shown on the Map Manuscripts. Photographs made on 21 November 1945, were taken when the water level was 4.9 ft. above M.L.W.

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

date: July, 1946 checked by: Washington Office

Control plotted by: date: October, 3946 Eda H. Bunce

Control checked by: Roy A. Davidson date: October, 3946

Radial Plot by: James L. Harris, Roy A. Davidson date: 18 Nov. 1946

Detailed by: Marie B. Elrod date: 15 Jan. 1947

Reviewed in compilation office by: Roy A. Davidson Corrections and changes after field edit by: Ree H. Barron Review after changed due to field edit by: J. E. Deal

Elevations on Field Edit Sheet

checked by: None

date: 24 Jan. 1947 date: 17 March 1947 date: 18 March 1947

date:

#### STATISTICS (III)

Land Area (Sq. Statute Miles): 5.9

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

Shoreline (Less than 200 meters to opposite shore): 1.0 statute miles

Number of Recoverable Topographic Stations established: I 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: May, 1946
Shoreline Inspection by: J. C. LaJoye, Prin. Photo. Aid date: April, 1946

Recovery of Horizontal Control by: J. C. LaJoye date: June, 1946

Recovery of Vertical Control by: J. H. Winniford date: October, 1945

Investigation of Geographic
Names and Civil Bounderies by:

L. E. Ervast, Photo. Aid date: June, 1946

#### RECORD SHEET

Div. of Photogrammetry Graphic Compilation Sect.

GENERAL LOCALITY Multnomah Char	nel, Oregon SHEET NO. T-8655
LOCALITY Scappoose Bay	PROJECT NO. CS-322
PHOTOS ORDEREDAug. 1945 REC'D. 1-21	26-45 -46 SCALE 1:8000
PROJECTION ORDERED June 1946 REC'D. 7-23	Joins. T8651. Ck./
CONTROL: COMPUTED Bunce VERIFIED Harris	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
PLOTTED Bunce VERIFIED Davidson	256
PHOTO PREPARATION: CONTROL Harris	Joins. T-8654. Ck. L. Joins. T-8656. Ck. L.
AZIMUTHS Davidson	Join
PASS POINTS Bunce, Harris	Joins T-8659Ck
TEMPLETS Elrod VERIFIED Davidson	
RADIAL PLOT: Harris PLOTTED BY Davidson DATE 11-18-	DATE OF PHOTOS See reverse side TIME OF PHOTOS "
VERIFIED Deal DATE 11-19-	,6
COMPILATION: DETAIL POINTS Letson DATE 1-16-	STAGE OF TIDE
DETAIL BY Letson DATE 2-28-4	7
VERIFIED BY Barron DATE 3-5-47	
COMPARISON WITH PREVIOUS SURVEYS; T	OPO., HYDRO., AND CHARTS:
Due to a scale difference only a visual	comparison was made with the USes St. Helen
OregWash. 15 min. quadrangle, scale 1	:62500. In general, planimetry which is
common to the quadrangle map and the map	manuscript is in agreement. Many minor
differences were noted, between the map	manuscript and quadrangle map, in the de-
lineation of the shorelines, sloughs, a	nd marsh areas (over)
REMARKS	
All corrections and additions which were	a found during the field edit were applied
to the map manuscript and a final compi	lation office review was then made.
FORWARDED TO Washington Office	
	R. A. Earle M-2305-12
	Chief of Pontre

#### COMPARISONS (cont'd.)

Comparison was made with black line prints on clear acetate of Topographic Surveys No's. 6570b and 6571a of October 1937, scale 1:10,000 enlarged to a scale of 1:8000. The shorelines which were common to the surveys and the map manuscript are in excellent agreement.

Comparison was made with Nautical Chart No. 6154, scale 1:40,000 by use of the vertical projector. In general the shorelines of Mult-nomah Channel and Scappoose Bay are in agreement. In the area of this map manuscript the chart is in error in the location of many of the inland sloughs, ponds, and roads.

#### PHOTOGRAPH DATA

Number	Dai	te Time	Scale 1:17000 co	ntact	Stage	of Tide
324 to 327	Inc. 6-30.	<b>-</b> 45 9:50	J: 8000 ra	tio 3	1.9 ft.	above M.L.W.
442 to 445	" 6-30-	-45 11:30	II II	, 1	1.9 ft.	- 11
538 to 541	" 6-30-	-45 13:00	. 11	'\$ 1⁻	1.9 ft.	11
3508 to 3510	" 33 -21	1-45 13:45	tl	- <del></del>	4.9 ft.	11
3514 to 3517	" 17 <b>–</b> 27	1-45 13:45	, 11		4.9 ft.	11

#### DATA RECORD

T- 8655

Quadrangle (II): SCAPPOOSE BAY, 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

Supplemental Instructions: Aug. 29, Sept. 10, Oct. 25, Nov. 30 & Dec. 6. 1945

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

Completed survey received in office: 24 Har 1947

Reported to Nautical Chart Section:

Reviewed: 17 June 1847 Applied to chart No.

Date:

Redrafting Completed: 25 July 1947

Registered: 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): ST. HELENS FIRTEX STACK (ORE.) 1937 r 1946.

Lat.: 45° 50 23.572" (727.8m) Long.: 122° 48' 57.153" (1233.4m) Adjusted X Unad justed

State Plane Coordinates (VI): Oregon, North Zone

x = 1,409,823.04 feet x = 800,766.88 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)

Number	<u>r</u>	Date	<u>Time</u>	Scale	Stage o	f Tide
3				1:17000 contact		
324 to 327	Inc.	6-30-45	9:50	1: 8000 ratio	11.9 ft.	above M.L.W.*
442 to 445	Ħ	6-30-45	17:30	II	11.9 ft.	u
538 to 541	tr	6-30-45	13:00	n	11.9 ft.	11
3508 to 3510	, lt	11-21-45	13:45	11	4.9 ft.	Ħ
3514 to 3517	11	11-21-45	13:45	Ħ	4.9 ft.	Ħ

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: F. H. Elrod, Prin. Photo. Aid date: March, 1947

Date of Mean High-Water Line Location (III): 21 November 1945

Note: According to supplemental instructions dated 10 September 1945, a high-water line of 5.0 ft. above Mean Low Water is to be shown on the map manuscripts. Photographs made on 21 November 1945, were taken when the water level was 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: October, 1946

Control checked by: Roy A. Davidson date: October, 1946

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

Detailed by: Helen L. Letson date: February 28, 1947

Reviewed in compilation office by: Ree H. Barron date: Mar Corrections and changes after field edit by: Ree H. Barron date: Mar date: Marchanges due to field edit by: J. E. Deal date: Marchanges due to field Edit Sheet

checked by: Charles Hanavich, Topo. Engr.

date: March 5, 1947 date: March 17, 1947 date: March 18, 1947

date: March, 1947

#### STATISTICS (III)

Land Area (Sq. Statute Miles): 7.5

Shoreline (More than 200 meters to opposite shore): 17.0 statute miles

Shoreline (Less than 200 meters to opposite shore): 20.0 statute miles

Number of Recoverable Topographic Stations established: 11 (1 landmark, 4 topographic stations, 2 aids to navigation) (1 topo. sta. recovered) (3 topo. sta. recovered and reported lost).

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: July, 1946

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

date: June, 1946

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

Investigation of Geographic

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

#### FIELD INSPECTION REPORT T-8654 and T-8655 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

Pohitt Earle

Chief of Party

Respectfully submitted:

Charles Hangeich

Charles Hanavich

Topographic Engineer

#### Amendment to File Data

Since project CS-322 was reviewed and registered, it was decided that a Completion Report for each project would be written and filed in the Bureau of Archives. This Completion Report should include all special reports, correspondence of probable future interest or importance, a project layout, a photo index, and a copy of the initial and supplementary project instructions.

A special file has been set up in the library for Division of Photogrammetry projects. The Completion Report and other special reports will be filed under the project number, and these will be arranged in numerical order.

The following reports and records for project CS-322 are now filed in the Bureau Archives, rather than according to the red notes in the Descriptive Reports:

Special Reports:

Supplemental data: maps, plans

E.

- A		er nobotos.		460 1104	
	1.	Investigation of Boundary Monuments and Land Lines for Radial Plots 1,	C\$~322	Rept. 1	
		2, 3, and 4			
	2.	Radial Plots 1, 2, 3, and 4	75	" 2	
		Legal descriptions of boundaries	и	n 3	
		Field Inspection for plots 1, 2,	Ħ	n T	
		3, and 4		•	
B.	Compu	tations: Triangulation and Traverse	943/GTZ	0-6785	
c.	Field	records:		•	
	1.	Horizontal Angles (form 250) 12 vol.	943/GH	0-7082	
	2.	Traverse Measurements (form 590)	943/GB		
	1	9 vol.			
	3.	Descriptions (form 525) and	943/GA	G-6786	
	,	recoveries (form 526)	7427 WAL	0 0100	
	h.	Pricking cards (form M-982-1) for	Div of	Photogrammetr	
	7	tri. and Tray.	General		¥
	₫.	Recoverable Topographic stations	••	Photogrammetr	
		(form 524)	General		*
		(IOLIM )SH!	Canalet	LTTA	
D.	Recov	ery of bench marks (form 685)	Pilad fr	n Leveling Sec	. ,
	774.4	AT AT RANKIN WEIGH (TATM AAN)	* ***** **	ア かんしカマヤバビ ひひぐ	٠

Access No.

175

Division of Charts, to be selectively filed or discarded.

These were transferred to the Map Section (Mr. Stanley, Chief),

# COMPILATION REPORT Map Manuscripts T-8654 and T-8655 Project CS-322

#### 26. Control:

At the time this project was started there were five horizontal control stations within the area of these two map manuscripts. All were recovered and identified for use in the radial plot.

In addition the field inspection unit recovered and identified four unmonumented 29th Engineers traverse stations. In general these traverse stations, as identified on the photographs, could be held during the running of the radial plot.

In the area of Map Manuscript T-8654, the field inspection unit established one temporary and one permanent triangulation station so that the photographs might be firmly fixed along the western limits of this part of the project.

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.

#### 27. Radial Plot:

The facts concerning the radial plot for the area of these two map manuscripts have been fully covered in the "Descriptive Report, Fourth Radial Plot, Project CS-322". This radial plot report was included with the descriptive report for Map Manuscripts T-8669 and T-8670, which was submitted to the Washington Office on 8 January 1947.

Filed in Div. Phologram. 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 re-flight photographs made on 21 November 1945, were helpful in determining the high-water line and other shoreline details. During the running of the radial plot, for this part of the project, it was found necessary to substitute re-flight photographs for many of the original photographs which were found to be tilted.

Though the detail on these re-flight photographs was not as sharp and clear as that on the original photographs, it was possible to select and radially plot enough pass points, which were common to both sets of photographs, to enable the compiler to satisfactorily detail the map manuscripts. Where the detail on the re-flight photographs was not clear the tilted photographs were used for interpreting the planimetry which has been shown on the map manuscripts. In some cases it was difficult to delineate from the ratio print, the correct shape and size of buildings. This was attributed to the loss of sharpness when the contact prints were enlarged.

When any item relative to the field inspection data was doubtful, it could be clarified by consultation with the field man who had done the inspection work. It was, therefore, unnecessary to make 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:

There was no supplemental data used in the area of these two map manuscripts.

#### 30. Mean High-Water Line:

The mean high-water line was detailed from information submitted by the field parties and from stereoscopic examination of the photographs. Most of the shoreline data is shown on field photographs taken on 21 November 1945. The mean high-water line, bordering firm ground, is shown by a continuous heavy-weight black acid inkline, 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.

#### 3]. Low-Water and Shoal Lines:

The field inspection unit did not indicate any low-water or shoal lines within the limits of these two map manuscripts.

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

There are no details offshore from the mean high-water line.

#### 33. Wherves and Shoreline Structures:

Fiers, wherves, dolphins, dikes, etc., have been shown.

#### 34. Landmarks and Aids to Navigation:

In the area of Manuscript T-8655, copies of forms 567 are being submitted for the following fixed sids to nevigetion and roll selds:

> MULTWOMAH CHANNEL LIGHT HENRICI LANDING RANGE REAR LIGHT

STACK, St. Helens Purp and Paper Co., Tari Stack, (Tri. Sta.)

Special Report: Investigation of Boundary Monuments & Land Lines ... Area Fourth Radial Plot. Filed in Div. Photogram. General Files under "Sp'f. Rep'ls."

> In the area of Map Manuscript T-8655 three recoverable topographic stations were established along Multaomah Channel for use during future hydrographic surveys. These stations will supplement the horizontal

control stations and located fixed adds to navigation in the area.

#### 36. Landing Fields and Aeronautical Aids:

There are no landing fields or aeronautical aids within the limits of these two man manuscripts.

#### 37. Geographic Names:

Only undisputed geographic names are shown on the map manuscripts. Geographic nemes 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 T-8654 copies of Forms 524 are being submitted for the following:

TAN R2W Section Corner 11-12-13-14, 1947

In the area of Map Manuscript T-8655 copies of Forms 524 are being submitted for the following:

> MULINOMAH CHANNEL LIGHT, 1946 HENRICI TANDING RANGE REAR LIGHT, 1946 TANK, St. Helens Pulp and Paper Company, 1947

JACK, 1947 ncm (1937), 1946 nAm (1937), 1946 (Recovered but not identified or radially nAm (1937), 1946 (Recovered but not identified or radially

uBu

(1937), 1946 (Lost) (1937), 1946 (Lost) ngn

(1937), 1946 (Lost)

#### 39. Junctions:

Complete and satisfactory junctions have been made between Map Manuscripts T-8654 and T-8655 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.

#### 40. Donation Land Claim and Section Lines:

Filed in map monuseript 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:

Nobult Earle

Robert A. Earle

Chief of Party

Respectfully submitted: 13 March 1947

J. Edward Deal, Jr.

Photogrammetric Engineer

J. Edward Deal Jr.

# FIELD EDIT REPORT Quadrangles T-8654 and T-8655 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. Additional names of roads and public buildings were first obtained from signs and then verified by reliable authorities. Planetable methods were used in some instances to locate new cultural detail. Several drainage revisions were made in T-8654. Other minor changes, corrections, and omissions were noted and corrected on both sheets during the field edit.

All shoreline and offshore detail was carefully checked. Several dolphins and pile areas were added. The numerous inland wooded marsh, pond and slough areas appear to have been delineated correctly. These low land areas, unprotected by dikes or terrain relief, become flooded during the annual freshets. For additional information refer to side headings 1 and 7 of the "Field Inspection Report, Area of the Fourth Radial Plot, Project 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. The geographic names in this area have been reviewed by Mr. Lewis A. McArthur, Collabor-My ator for the U. S. Coast and Geodetic Survey.

#### FIELD EDIT REPORT Quadrangles T-865% and T-8655 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

Special Report: Investigation of Boundary Monuments & Land Lines ...

Area of the Fourth Radial Plat.

Filed in Div. Postagram General Files under "Spy Repts."

#### 47. Adequacy of the Compilation:

The planimetry as defineated on the map menuscripts may be considered as complete and adequate with respect to the corresponding ground detail. Except for the defetions, 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. Additional names of roads and public buildings were first obtained from signs and then verified by reliable authorities. Planetable methods were used in some instances to locate new oultural detail. Several drainage revisions were made in T-8654. Other minor changes, corrections, and omissions were noted and corrected on both sheets during the field edit.

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In accordance with the field edit instructions, these map menuscripts 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. 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:

Results of the horizontal accuracy test on these map manuscripts are attached to the back of this report. For data on this traverse refer to "Special Report Third-Order Traverse, HEDGES, 1946 - WAR-REN, 1903, Quadrangles T-8651, T-8654, and T-8655, Project CS-322".

#### 49. Bench Mark Elevations:

There were no bench marks in T-8654. In T-8655, all bench marks were checked; however, some of the elevations of the USC&GS bench marks are unadjusted and subject to correction when adjusted.

#### 50. Donation Land Claims and Section Lines:

Donation land claims and section lines were located on additional oza-\_\_ lid 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. C Filed in map manuscript envelope.

(Listed in Geographic Names Report) (14 51. Geographic Names:

LEMONT HILL: In T-8651 just north of St. Helens

Although this report does not deal with T-8651, attention is called to the correct spelling of this name. Through a typographical error this name was listed as LAMONT HILL in the geographic names report for the fourth radial plot. The correct spelling is: LEMONT HILL.

Field Edit reviewed by:

Charles Hanavich Charles Hanavich Topo. Engineer

Field Edit by:

F. H. Elrod

Prin. Photo. Aid

Approved by:

R. A. Earle

Chief of Party

Marle

# HORIZONTAL ACCURACY TEST Map Manuscripts T-8654 and T-8655 Project CS-322

This test consists of a check traverse between triangulation stations HEDGES, 1946 and WARREN, 1903. The traverse is 6.0 statute miles in length and the probable error is one part in 9,400. There are 45 test points available and 29 of them are within the limits of these map manuscripts.

In the tabulation, the geographic position from the traverse computations is referred to as T.P.No., and the scaled position from the map manuscripts (scale 1:8000) is referred to as M.M.No.

Description	TABULATION (	Latitu		Longit	udo	Displacement
of Point	Number	THAT	70	TOTEL	ида	in mm
OI TOTAL	Mamber	<del></del>	<del></del>	<del></del>		*II IIII
	T-86	54				
Inter. of rd.,	T.P.No.20	<b>45 48</b> 3	1807.4	122 51	24.4	
90 degrees	M.M.No.20		1807.0		25.6	•13
Inter. of T-rd.,	T.P.No.20B	45 48 ]	1451.4	122 51	174.2	
75 degrees	M.M.No.20B	3	452.2		174.0	•08
1 Jesucup	T.P.No.B	45 48 ]	1525.8	122 51	682.9	
	M.M.No.B	3	L527.6		682.1	.20
Inter. of T-rd.,	T.P.No.200	45 48 1	447.7	122 51	339.2	
50 degrees	M.M.No.20C	]	L448.2		338.6	•08
Center of ho.	T.P.No.21	45 48 I	423.3	122 51	704.9	
	IS.on.M.M	1	1422.5		703.8	.14
Center of he.	T.P.No.22	45 <b>4</b> 8 ]	420.5	122 51	1175.8	
	M.M.No.22	]	421.3		1174.3	.17
Ch. spire	T.P.Ch.spire	45 49 3	312.1	122 51	104.7	
1 —	M.M.Ch.spire	3	8.218		106.2	•16
	T-86	55				
Tch.spire Inter. of rd. & RR.	T.P.No.9A	45 50 ]	709.8	122 49	1040.4	
80 degrees	M.M.No.9A		708.3		1046.0	•58
Inter. of X-rds.,	T.P.No.9B	45 50 ]	722.2	122 49	1061.1	
80 degrees	M.M.No.9B	1	.720.4		1065.0	•43
Inter. of T-rd.,	T.P.No.10	45 50 1	.581.0	122 49	1146.6	
70 degrees	M.M.No.10	1	579.0		1151.3	.51
Center of bldg.	T.P.No.10A	<b>4</b> 5 50 1	.505.1	122 49	1185.8	
	M.M.NO.10A	1	505.1		1185.4	.04
Center of bldg.	T.P.No.11	45 50 1	.025.0	122 50	102.7	
	M.M.No.11	1	022.1		103.2	29

Inter. of T-rd., 45 degrees	T.P.No.12 M.M.No.12	45 50	882.4 882.9	122 50	134.9 137.6	.27
Bench mark	T.P.No.X-116 M.M.No.X-116	45 50	1501.1 1498.5	122 49	1191.0 1193.7	•37
Inter. of X-rds., 45 degrees	T.P.No.13 M.M.No.13	45 50	629.8 628.7	122 50	232.2 235.5	•35
Inter. of rd.& RR, 45 degrees	T.P.No.13A M.M.No.13A	45 50	603.0 601.4	122 50	216.2 220.0	•41
Bench mark	T.P.No.H-30 M.M.No.H-30	<b>4</b> 5 50	616.0 613.5	122 50	219.7 220.0	.25
Inter. of T-rd., 90 degrees	T.P.No.14 M.M.No.14	45 50	280.3 278.8		365.8 -369.4	•39
Inter. of T-rd. 90 degrees	T.P.No.15 M.M.No.15	<b>4</b> 5 50	148.5 147.2	122 50	416.6 419.1	•28
Cupola, center of barn	T.P.No.A M.M.No.A	<b>4</b> 5 50	195.4 192.8	122 50	18 <b>4.3</b> 186.8	.36
Inter. of T-rd. 85 degrees	T.P.No.16 M.M.No.16	45 49	1592.5 1592.0	122 50	573.3 576.0	.27
Center of ho.	T.P.No.16A M.M.No.16A	45 49	1292.4 1293.3	122 50	732.2 733.8	.18
	T.P.No.17 M.M.No.17		958.3 road - not	122 50 compile		
Inter. of rd.& RR, 85 degrees	T.P.No.17A M.M.No.17A	45 49	737.3 737.4	122 50	877.3 879.6	.23
Inter. of X-rds., 90 degrees	T.P.No.17B M.M.No.17B	45 49	747.8 747.1	122 50	899.7 901.2	•16
Inter. of rd& RR, 80 degrees	T.P.No.18 M.M.No.18	45 49	289.3 290.4	122 50	1093.2 1097.2	•41
Inter. of X-rds., 80 degrees	T.P.No.19 M.M.No.19	45 49	286.5 287.6	122 50	1121.7 1124.5	•30
Bench mark	T.P.No.V-162 M.M.No.V-102	45 49	235.2 234.4	122 50	1133.1 1135.0	.21
Inter. of rd.& RR, 90 degrees	T.P.No.20A M.M.No.20A	45 48	1783.9 1783.4	122 50	1273.5 1275.1	.17

Bench marks H-30(USC&GS), V-102(OSHD), and X-116(OSHD) were established as marked traverse stations; they were used as test points and were scaled as such prior to submitting the geographic positions for them to the Compilation Office for plotting. This ewas a loss true of stheorest point church spire which was established as an intersection station. These marked traverse stations and the intersection station, and test points B, 21, 22, 10A,11, A, and 16A

are less well defined. The remaining test points are well defined. The map manuscripts are believed to be well within the accuracy requirements since the only test points that exceeded .5 mm were 9A, and 10. The displacement of these points was found, in the detailing.

R. A. Earle Chief of Party

Respectfully submitted:

Charles Hanavich

Topo. Engr.

#### Division of Photogrammetry

#### Review Report of

#### Planimetric Map Manuscript T-8654

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

#### 26. Control.

Four control stations shown on the map manuscript by a triangulation symbol are not to be smooth drafted. These stations are picture points. An explanatory note has been added to the drafting overlay.

#### 28. Detailing.

Corrections made to the manuscript, during review, are shown in brown acid ink.

The detailed area of this manuscript follows the irregular pattern indicated on the project layout.

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.

A small portion of the J. Stoughton D. L. C. boundary line omitted from this map manuscript by the compilation office was added during review. The eastern line of the Phillip Laffer D. L. C. was moved to the west. The names of four claims have been shown in red crayon on an ozalid print for the purpose of verification as original claims, by the Portland Office. One of these claims, Seth Pope, is listed in the Tabulation of Donation Land Claim Lines as an original claim but was not shown on the manuscript.

Section corner 11-12-13-14 was shown in the Special Report, Investigation of Boundary Monuments and Lines, area of the Fourth Radial Plot and indicated on the land line field edit print, submitted by the compilation office, as an unrecovered corner. A pricking card and Form 524 card were submitted for this corner and it is mentioned as a recoverable topographic station in the Compilation Report. The reviewer has reclassified this corner as a recovered monumented corner on the manuscript, ozalid print and in the Special Report.

44. Comparison with Existing Topographic Surveys.

Comparison was made with the following 15' cuadrangle and the planimetry in all common areas is superseded by T-8654:

U. S. E. St. Helens, Ore.-Wash. 1:62,500 1943

#### Division of Photogrammetry

#### Review Report of

#### Planimetric Map Manuscript T-8655

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

#### 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.

Corrections made to the section lines consisted of a relegation to a position approximating their original layout on the General Land Office plats.

Adjustments to one Donation Land Claim boundary were effected.

#### 44. Comparison with Existing Topographic Surveys.

Comparisons were made with the following (A) Previous Surveys and (B) Quadrangle and the planimetry in all common areas is superseded by T-8655.

A. Previous Surveys

T-1542	1:10,000	1882
T-1563	1:10,000	1880
T-6570	1:10,000	1937
T-6571	1:10,000	1937

#### B. Quadrangle

U.S.E. St. Helens, Ore.-Wash. 15' 1:62,500

An adequate description of these comparisons appears on the Record Sheet attached to this Descriptive Report.

#### 45. Comparison with Nautical Charts

This manuscript has not been applied to nautical charts. It was compared with Chart 6154 1:40,000 1945 and it supersedes that chart in all common features in the same area.

Reviewed by:

Photogrammetrist 17 June 1947

APPROVED BY:

Technical Assistant to the Chief, Div. of Photogrammetry

Chief, Div. of Photogrammetry

Reviewed under direction of:

Chief, Review Section

Chief, Nautical Division of Cha

Chief, Div. of Coastal Surveys

Form 50, April 1945

# DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

Pro' t CS-322 T-8655

# NONFLOATING AIDS OR LANDMARKS FOR CHARTS

STRIKE OUT ONE TO-BE-CHARTED

Portland, Oregon

11 March

The feel Suring and the restriction of the state of the sand 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 Waltad

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							H. A.	Larle		Ch	Chief of Party.
STATE	OREGON			ă .	POSITION			METHOD		TAA	
			LAT	LATITUDE	LONG	LONGITUDE		LOCATION	DATE	ве сн	CHARTS
CHARTING	DESCRIPTION	SIGNAL	- 0	D. M. METERS	- 0	D. P. METERS	DATUM	SURVEY No.	LOCATION	HARBO INSHOI	
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TANK	ST. HELENS PULP & PAPER COMPANY	TANK	45 50	(47.2)	122 48	(1746.6)	=	Radia	26.17	4 Þ	*
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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 This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating individual field survey sheets. Information under each column heading should be given.

	GEOGRAPHIC NAMES			Ser C.	J.S. Mada	, refe	/ /		Mar Andrews	philos /	/ *
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		GEOGRAPHIC NAMES  Survey No.  T-8654 & T-8655 or 40 or	lou de sia	C. C. Local	Coulded	Mad Market Marke	N.S. J.S.	
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### DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

c/o Swan Island Postal Station,

Portland 18, Oregon

TELEGRAPH ADDRESS:

POST-OFFICE ADDRESS:

**EXPRESS ADDRESS:** 

29 July 1947

To:

Chief, Division of Photogrammetry,

U.S. Coast & Geodetic Survey,

Washington 25, D.C.

Subject:

Review of Map Manuscript T-8654.

Reference: Your Letter 78-aar dated 9 June 1947

The recommended changes by the Washington Office in the position of land lines, in the area of Map Manuscript No. T-8654, have been investigated. The original land line data which had been furnished the compilation office was not complete, and in order to obtain the correct information on the land lines, it was necessary to peruse the copies of the original deeds on file in the Columbia County Court House at St. Helens, Oregon. The results of the investigation are as follows:

The claim Ziopher Perkins is listed as the Zopher Perkins D.L.C. in the original deed and in the records of Columbia County. It has been added to the map manuscript and drafted on the smooth draft sheet. The name Zopher Perkins should be added to the smooth draft sheet at the Washington Office by use of stick-up. The land lines and notes of explanation regarding this claim have been shown on an ozalid print with green crayon pencil.

The Kerno claim is listed as the James A. Kerns D.L.C. in the original deed and in the record of Columbia County. It has been added to the map manuscript and drafted on the smooth draft sheet. The name James A. Kerns should be added to the smooth draft sheet at the Washington Office by use of stick-up. The land lines and notes of explanation regarding this claim have been shown on an ozalid print of T-8654 with green crayon pencil.

The Seth Pope claim should not be considered a D.L.C. and is not recognized as such in Columbia County, Oregon. The land was originally granted by President Abraham Lincoln to John Bird as a veteran of the Black Hawk War. He sold the claim to Seth Pope some time after the original grant. This name should not appear on the published maps as it is not a donation land claim.

PORVICTORY

The J. G. Martin D.L.C. has been added to the map manuscript and drafted on the smooth draft map. The name J. G. Martin should be added to the smooth draft map at the Washington Office by use of stick-up. The land lines and notes of explanation have been shown on an ozalid print of T-8654 with green crayon pencil.

The east line of the Phillip Laffer D.L.C. has been moved as suggested by the reviewer. The new position is shown on the smooth draft map and the map manuscript has been corrected.

While investigating the above claims, it was found that a claim known as the N. Hoyt D.L.C. falls in the southeast part of this map manuscript east of the Jacob G. Nessley and the Phillip Laffer donation land claims. It has been added to the map manuscript. This name should be added to the smooth draft map at the Washington Office by use of stick-up.

It was also noticed that the claim of Jacob A. Wessley is listed as Jacob G. Nessley in the record of Columbia County. Mr. Fred Watkins, Assessor of Columbia County states that this name is known as and listed in many deeds in the county as Nessley. This name should be shown on the published maps as Jacob G. Nessley. It has been corrected on the map manuscript and smooth draft sheet.

R. A. Earle,

Lt. Comdr., U.S.C.&G.S.,

Chief of Party

Marle

#### NAUTICAL CHARTS BRANCH

SURVEY NO. 8654, 8655

#### Record of Application to Charts

Before After Verification and Review  Before After Verification and Review	DATE	CHART	CARTOGRAPHER	REMARKS
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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.