

# 10852

Diag. Cht. No. 6157.

Form 504

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-5807 Office No. T-10852

### LOCALITY

State Washington and Oregon

General locality Columbia River

Locality Dallesport

1958-59

### CHIEF OF PARTY

L.G.Taylor, Chief of Party

K.W.Jeffers, Portland Photo. Office

### LIBRARY & ARCHIVES

DATE May 1962

USCOMM-DC 5087

# 10852

DESCRIPTIVE REPORT - DATA RECORD

T - 10852

Project No. (II): Ph-5807

Quadrangle Name (IV):

Field Office (II): The Dalles, Oregon

Chief of Party: Lorne G. Taylor

Unit Chief: K. W. Jeffers

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge: Lorne G. Taylor

Instructions dated (II) (III): Undated  
Field and Office

Copy filed in Division of  
Photogrammetry (IV)

Modification: Letter 73/rrj dated 9 March 1959  
Letter 831/es dated 12 March 1959  
Letter 732/rrj dated 21 May 1959

Method of Compilation (III): Kelsh Stereoscopic Instrument

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Viewing Scale

1:6000

Scale Factor (III): None

Pantograph Scale

1:10,000

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

22 Aug 1961

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Refer to datum pro-

Vertical Datum (III): file on manuscript

Mean sea level except as follows:

Elevations shown as (25) refer to mean high water

Elevations shown as (5) refer to sounding datum -

i.e., mean low water on mean low water

From 72.0 ft. above M.S.L. at Bonneville Dam forebay and upstream at the gradient of the Bonneville Pool as of the date of photography, 28 Aug. 1958

\*See below.

Reference Station (III): HILL, 1939

Lat.: 45° 34' 53.654"

Long.: 121° 09' 36.900"

Adjusted X  
Unadjusted

Plane Coordinates (IV):

State: Oregon

Zone: North

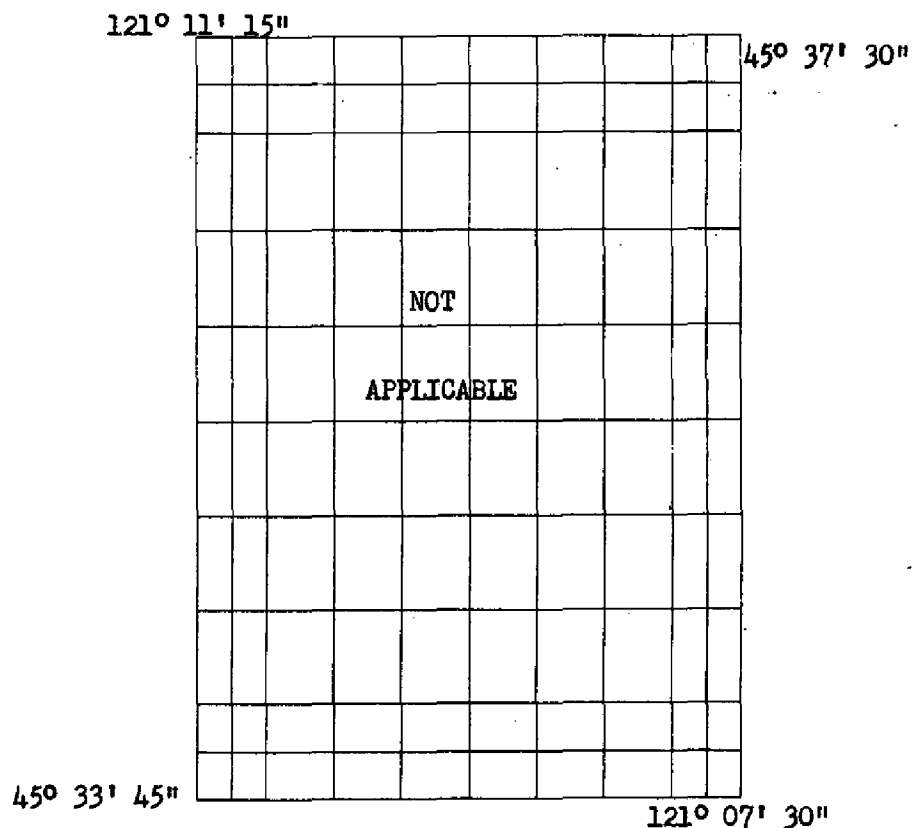
Y= 698,811.54 ft.

X= 1,830,951.23 ft.

\* For Lake Celilo from 160 ft. above M.S.L. at The Dalles Dam forebay and proceeding upstream at the gradient of Lake Celilo as of date of photography, 28 Aug. 1958.

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

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



COMM-DC-57842

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): C. H. Bishop (Shoreline)  
K. W. Jeffers (Interior)

Date: March 1959  
May & June 1959

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Shoreline

~~Mean High Water~~ Location (III) (State date and method of location): Located by field inspection on 3-11-59 on single lens ratio prints taken 8-28-58 & delineated by Kelsh Stereoscopic Instrument on this photography. The shoreline is the gradient of Bonneville Dam Pool from 72.0 ft. normal pool level at the forebay and proceeding upstream at the pool gradient of 8-28-58 the date of photography. For Celilo Lake The Dalles Dam forebay is 160 ft. normal pool level and proceeds upstream as described for Bonneville Dam Pool.

Projection and Grids ruled by (IV): P. J. Dempsey

Date: 4-9-59

Projection and Grids checked by (IV): Shoup

Date: 4-10-59

Control plotted by (III): L. L. Graves

Date: 5-7-59

Control checked by (III): J. L. Harris

Date: 5-7-59

Radial Plot or Stereoscopic  
Control extension by (III):

Robert Feuschel

Date: May 1959

Stereoscopic Instrument compilation (III):

Planimetry D. N. Williams

Date: 7-10-59

Contours

Date:

Manuscript delineated by (III):

L. L. Graves (Scribing)  
L. L. Graves (Stick-up)

Date: 12-4-59  
1-19-60

Photogrammetric Office Review by (III):

J. L. Harris (Rough Draft)  
J. E. Deal (Advance Complete)

Date: 7-14-59  
1-22-60

Elevations on Manuscript  
checked by (II) (III):

Date:

DESCRIPTIVE REPORT - DATA RECORD

5. U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

Camera (kind or source) (III): U.S.C. & G.S. Single lens 58-S

Number	Date	Time	PHOTOGRAPHS (III)		Scale	Bonneville Dam Pool level (forebay) Stage of tide
58-S-7789A thru					1:10,000 (ratio)	
7791A	8-28-58	11:20			1:30,000 (contact)	73.5 ft. above M.S.L.
58-S-7800A	"	11:37			"	"

Note: Pool level at The Dalles  
Dam Forebay for this date  
was 159.76 ft. above  
M.S.L.

Tide (III)

Reference Station:

Subordinate Station:

Subordinate Station:

Not applicable

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Ratio of Ranges	Mean Range	Spring Range

Date:

Date:

Date:

Date:

Land Area (Sq. Statute Miles) (III): 12

Shoreline (More than 200 meters to opposite shore) (III): 7 Statute miles

Shoreline (Less than 200 meters to opposite shore) (III): 0.5 " "

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 21 Recovered: 14

Number of BMs searched for (II): None Recovered:

Number of Recoverable Photo Stations established (III): 2

Number of Temporary Photo Hydro Stations established (III): None

Identified: 3

Identified:

Remarks:

1 Floating Aid (buoy) was located.

6

**SUMMARY**  
**TO ACCOMPANY SHORELINE MAP MANUSCRIPTS**  
**T-10847 through T-10857**

These eleven (11) shoreline surveys are a part of FH-5867. The project covers the Columbia River and adjacent land areas of Oregon and Washington from Seaside eastward to Vashik. It was designed to aid in the revision of present nautical charts and in the construction of new charts from the Dalles Dam upstream to the McNary Dam. Subject T-sheets extend from the vicinity of Humbug Island eastward to Miller Island.

A stereoplotting bridging plot of T-10847 through T-10857 was done in the Washington Office in February 1959 (see separate report). They were compiled by stereoscopic instruments (Relish Plotter) in the Portland Photogrammetric Office in the latter part of 1959 from photography of August 1958 and field inspection information of March and May 1959.

The completed compilations as submitted to the Washington Office are the result of adequately derived sheets and suitable for the direct reproduction of registration copies.

A master film positive at the compilation scale of 1:10,000 and the Descriptive Report of each will be registered and filed in the Bureau Archives.

July 1961

## FIELD INSPECTION REPORT

Map Manuscript T-10852

Project Ph-5807

Refer to Field Inspection Report for T-10850, T-10852 and T-10854 which is included in the Descriptive Report for T-10850 (1959).

## PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10852

Project Ph-5807

Refer to the Photogrammetric Plot Report (Stereoplanigraph Bridge) for T-10847 thru T-10857 which is included in the Descriptive Report for T-10847 (1959).



U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY  
DESCRIPTIVE REPORT  
CONTROL RECORD

MAP T. 10852

PROJECT NO. Ph-5807

SCALE OF MAP 1:10,000

SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\psi$ -COORDINATE LONGITUDE OR $\lambda$ -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		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
The Dalles, Old Wasco County Courthouse, clock, tower final, Pg. 44 1939	Oreg.N. Pg. 44	N.A. 1927	706,372.26	1372.26	(3627.74)		418.3	(1105.7)	
			1,824,981.57	4981.57	(18.43)		1518.4	(5.6)	
The Dalles, Wasco Warehouse Milling Co., Tank, 1939	" Pg. 45	"	704,768.46	4768.46	(231.54)		1453.4	(70.6)	
			1,828,152.63	3152.63	(1847.37)		960.9	(563.1)	
			709,177.57	4177.57	(822.43)		1273.3	(250.7)	
THREE MILE RAPIDS LIGHT, 1939 Pg. 44 DALLESPOUT, THE DALLES MUNICIPAL AIRPORT, Office Rotating Aero Beacon Comp. 1959	" Pg. 44	"	1,834,513.06	4513.06	(486.94)		1375.6	(148.4)	
			711,795.61	1795.61	(3204.39)		547.3	(976.7)	
			1,827,971.20	2971.20	(2028.80)		905.6	(618.4)	
T2N-RL3E, SECTIONS 27 & 34 QUARTER COR. (USE) (1939 Pg. 44 THE DALLES, ST. PETER'S CHURCH SPIRE, FINAL, 1939	" Pg. 44	"	713,620.05	3620.05	(1379.95)		1103.4	(420.6)	
			1,829,684.61	4684.61	(315.39)		1427.9	(96.1)	
			706,622.00	1622.00	(3378.00)		494.4	(1029.6)	
MEYERS 2, 1959 Ts 1 & 2, RL3E Secs. 3 & 34 Iron Pipe (USE) Tie) 1939	Office Comp. Oreg.N. Pg. 46	"	1,824,340.39	4340.39	(659.61)		1323.0	(201.0)	
			704,011.41	4011.41	(988.59)		1222.7	(301.3)	
			1,832,996.03	2996.03	(2003.97)		913.2	(610.8)	
DALLES, 1939	" Pg. 29	"	707,863.12	2863.12	(2136.88)		872.7	(651.3)	
			1,824,558.73	4558.73	(441.27)		1389.5	(134.5)	
			707,872.49	2872.49	(2127.51)		875.5	(648.5)	
HILL, 1939	" Pg. 26	"	1,824,552.70	4552.70	(447.30)		1387.7	(136.3)	
			698,811.54	3811.54	(1188.46)		1161.8	(362.2)	
			1,830,951.23	951.23	(4048.77)		289.9	(1234.1)	

1 FT. = 3048006 METER

COMPUTED BY: J.E.D.

DATE 12-4-58

CHECKED BY: J.L.H.

DATE 12-5-58

COMM. DC-57843

MAP T-10852	PROJECT NO. Ph-5807	SCALE OF MAP	SCALE FACTOR
		1:10,000	None

[illegible]

1 FT. = 3048006 METER	J.E.D.	12-4-58	J.L.H.	12-5-58	COMM. DG-57045
COMPUTED BY:	DATE	CHECKED BY:	DATE		

## COMPILATION REPORT

Map Manuscript T-10852

Project Ph-5807

31. Delineation:

The Kelsh Stereoscopic Instrument was used to compile the planimetry.

The project index indicated that all planimetry within the manuscript limits was to be compiled. The stereoplanigraph bridge did not extend south of Latitude  $45^{\circ} 35'$  and the compilation of planimetry was stopped at approximately this latitude. The south neat limits of the manuscript is Latitude  $45^{\circ} 33' 45''$ .

Refer to letter modifying the instructions 732/rrj dated 21 May 1959.

Refer to the last paragraph under Item 37 in the Descriptive Report for T-10837 (1959) page. 19.

32. Control:

Refer to remarks in the Photogrammetric Plot Report (Stereoplanigraph Bridge) T-10847 thru T-10857 which is included in the Descriptive Report for T-10847 (1959).

33. Supplemental Data:

A map of Dalles City, Oregon (The Dalles, Oregon) Scale 1:10,000, dated February 1945, Homer S. Wall, City Engineer, was used to supplement the field inspection of identified points on the city boundary. Streets appearing on this map which are not visible on the photographs have not been shown on the manuscript.

34. Contours and Drainage:

The drainage shown on the manuscript was delineated from field inspection notes supplemented by minute examination of the Kelsh models for drainage and by visual inspection of the U.S.G.S. 15 min. topographic quadrangle "The Dalles, Oreg. - Wash." Scale 1:62,500, published 1957.

### 35. Shoreline and Alongshore Details:

Downstream from The Dalles Dam these features are the same as described in the Descriptive Report for T-10837 (1959) page 20 Item 35, 1st paragraph.

Above The Dalles Dam or in Celilo Lake the shoreline shown on this manuscript is at the gradient of Celilo Lake Pool referenced to the normal pool level of 160.0 ft. above M.S.L. at the forebay of The Dalles Dam and proceeding upstream at the gradient of the pool as of 28 August 1958, the date of photography. Graphs, printed on stick-up material, for the Bonneville Dam Pool and the Celilo Lake Pool from which the elevation of the shoreline above M.S.L. may be determined at any given place have been applied to this manuscript.

Facts relative to other features under this heading are the same as described in Item 35, paragraphs 2 thru 5 of the Descriptive Report for T-10837 (1959).

### 36. Offshore Details:

Refer to Descriptive Report for T-10837 (1959).

### 37. Landmarks and Aids:

Forms 567 listing these features for both nautical and aeronautical charts were forwarded to Washington on 31 August 1959.

For additional data refer to the Descriptive Report for T-10837 (1959), Item 37.

### 38. Control for Future Surveys:

Two recoverable topographic stations were located by Kelsh Instrument. They are listed under Item 49: Notes to the Hydrographer.

### 39. Junctions:

Satisfactory junctions were made with T-10850 on the west, T-10851 on the north and T-10854 on the east.

### 40. Horizontal and Vertical Accuracy:

Vertical accuracy is not applicable.

There are no areas on this manuscript that are considered to be of sub-normal accuracy.

46. Comparison with Existing Maps:

Comparison was made with U.S.G.S. 15 minute "The Dalles",  
Oreg. - Wash. quadrangle, Scale 1:62,500, published 1957.

47. Comparison with Nautical Charts:

Refer to the Descriptive Report for T-10837 (1959).

Approved:



Lorne G. Taylor  
CDR, C&GS  
Officer-in-Charge

Respectfully submitted:



J. Edward Deal  
Cartographer  
C&GS

## GEOGRAPHIC NAMES LIST

\*Columbia River  
Columbia River Highway  
Covington Point

\*Dallesport  
Dry Hollow

Klickitat County

\*Lake Celilo

Northdalles Station

\*Oregon

Port of The Dalles

Spokane, Portland & Seattle R.R.

The Dalles (Dalles City)  
The Dalles Dam  
The Dalles Municipal Airport  
Threemile Creek  
Threemile Point  
Threemile Rapids

Union Pacific R.R.

Wasco County  
\*Washington

\* B.G.N. Decision

*George M. Bace*  
GEOGRAPHIC NAMES SECTION  
9 MARCH 1960

49. Notes to the Hydrographer:

Forms 567 have been submitted listing the scaled positions of two aids to navigation which were located by Kelsh Instrument.

The Dalles Boat Basin Light, 1959  
Red Clearance Light, 1959

# PHOTOGRAMMETRIC OFFICE REVIEW

T- 10852

1. Projection and grids X 2. Title X 3. Manuscript numbers X 4. Manuscript size X

## CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy X 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) X 7. Photo hydro stations None 8. Bench marks None 9. Plotting of sextant fixes X 10. Photogrammetric plot report X 11. Detail points X

## ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline X 13. Low-water line None 14. Rocks, shoals, etc. X 15. Bridges X 16. Aids to navigation X 17. Landmarks X 18. Other alongshore physical features X 19. Other along-shore cultural features X

## PHYSICAL FEATURES

20. Water features X 21. Natural ground cover X 22. Planetable contours None 23. Stereoscopic instrument contours None 24. Contours in general None 25. Spot elevations None 26. Other physical features X

## CULTURAL FEATURES

27. Roads X 28. Buildings X 29. Railroads X 30. Other cultural features X

## BOUNDARIES

31. Boundary lines X 32. Public land lines None

## MISCELLANEOUS

33. Geographic names X 34. Junctions X 35. Legibility of the manuscript X 36. Discrepancy overlay None 37. Descriptive Report X 38. Field inspection photographs X 39. Forms X

40. \_\_\_\_\_  
Reviewer J. Edward Deal  
Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

## FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

\_\_\_\_\_  
Complier Supervisor

43. Remarks:



17

REVIEW REPORT  
OF  
SHORELINE MAP MANUSCRIPTS  
T-10047 through T-10097  
July 1961

**60. Comparison with Registered Topographic Surveys**

There are no registered topographic surveys of this area.

**61. Comparison with Maps of Other Agencies**

WHITE SALMON, ORG.-WASH., 1:62,500, 1937, U.S. Geological Survey  
THE DALLES, ORG.-WASH., 1:62,500, 1937, U.S. Geological Survey  
WHELAN, ORG.-WASH., 1:62,500, 1937, U.S. Geological Survey

A detailed comparison is impractical because of scale differences. However, several discrepancies in shoreline delineation are apparent.

**62. Comparison with Contemporary Hydrographic Surveys**

There are no contemporary hydrographic surveys of subject area.

**63. Comparison with Nautical Charts**

6157

1:40,000

Revised to March 1961

There are shoreline differences between these surveys, which should be considered in the future revision of chart 6157. Additional navigation aids have been installed since the field inspection of the T-sheets in 1959 and that are shown on the nautical chart. The surveys, however, are in agreement with their corresponding light lists.

The eastern portion of this group of T-sheets is not covered by existing nautical charts. A new series of nautical charts of the upper Columbia River is being constructed now and at the time of the Washington Office Review, not available for comparison.

**64. Adequacy of Details and Future Surveys**

T-10047 through T-10097 have been compiled according to instructions and meet the adequacy and accuracy requirements for this type of survey.

Reviewed by:

*Joseph J. Streifer*  
JOSEPH J. STREIFER

Approved by:

*Le Lande*  
CHIEF, REVIEW & EDITING SECTION  
Photography Division

*Martin T. Hanson*  
CHIEF, MEDICAL CHART  
Division

*J. E. Waugh 4/17/62*  
CHIEF, PHOTOGRAPHY DIVISION

*Max B. Kett*  
CHIEF, OPERATIONS DIVISION

## NAUTICAL CHARTS BRANCH

SURVEY NO. T-10852

### Record of Application to Charts

[illegible]

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.