10858



10828

Diag. Cht. No. 6157 Inset.

Form 50s

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

· · · · · · · · · · · · · · · · · · ·	
Type of Survey	Shoreline
Field No.	Office No. T-1 0858
	LOCALITY
State	
General locality	Columbia River Lake Celilo
Locality	Biggs
ı	1959
	CHIEF OF PARTY
Lorne G. Tayl	or, Photogrammetric Office
LIB	RARY & ARCHIVES
DATE	lay 1962

USCOMM-DC 5087

DESCRIPTIVE REPORT - DATA RECORD

T = 10858

Project No. (II): Ph-5807

Quadrangle Name (IV):

Field Office (II): The Dalles, Oregon

Chief of Party:

Lorne G. Taylor

Photogrammetric Office (III): Portland, Oregon

Unit Chief:

K. W. Jeffers

Officer-in-Charge:

Lorne G. Taylor

Instructions dated (II) (III):

Undated

Field and Office

Copy filed in Division of Photogrammetry (IV)

Modifications: 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

Viewing Scale

Manuscript Scale (III):

1:10,000

Stereoscopic Plotting Instrument Scale (III):

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):

3 July 1961

Publication Scale (IV):

Publication date (IV):

Refer to datum pro-

Geographic Datum (III):

N.A. 1927

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 datumi.e., mean low water or mean lower low water

From 160.0 ft. above M.S.L. at The Dalles Dam forebay and upstream at the gradient of Lake Celilo Pool as of date of photography, 28 Aug. 1958.

Reference Station (III):

450 401 23.675"

HALE (USE) 1942

Long.: 120° 48' 57.130"

Adjusted X

Unadjusted

Plane Coordinates (IV):

State: Oregon

Zone:

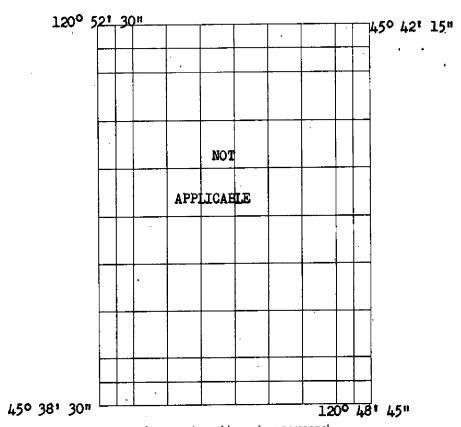
North

731,703.87

x = 1,919,255.56

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

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



Areas contoured by various personnel (Show name within area)
(II) (III)

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): C. H. Bishop (Shoreline)

3-27**-**59 Date:

K. W. Jeffers (Interior)

July 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
3-27-59 on single lens ratio prints taken 8-28-58 and delineated by Kelsh Stereoscopic Instrument on models of same photography. The shoreline is the gradient
of lake Celilo Pool from 160.0 ft. normal pool level at The Dalles, Dam forebay
and proceeding upstream at the pool gradient of 28 August, 1958, the date of photography.

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

Date: 4-28-59

Projection and Grids checked by (IV):

Shoup

5-14-59 Date:

Control plotted by (III):

J. L. Harris

Date: 6-1-59

Control checked by (III):

J. E. Deal

Date: 6-1-59

Radial Plot or Stereoscopic

Robert Feuschel

May 1959 Date:

Control extension by (III):

Planimetry L. L. Graves

Date: 8-7-59

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III):

W. V. Hull (Scribing) Date: 12-3-59

J. L. Harris (Stick-up)

Photogrammetric Office Review by (III);

J. D. Harris Rough Draft)

9-2-59

J. E. Deal (Advance Complete)

2-24-60

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

Date:

Date:

COMM- DC- 57842

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

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

		PHOTOGRAPHS	G (III)	The Dalles Dam Ferebay
Number	Date	Time	Scale	Stage of Tide
58 S 7733A theu 7735A * 58 S 7774A	8-28-58	10:53	1:30,000 contact 1:10,000 ratio	159.8 ft. above MSL
thru 7776A	11	11:07	Ħ	ti

* These photographs were used for field inspection only.

Tide (III)

	Ratio of Ranges	Mean Range	Spring Range	
Reference Station:	7			
Subordinate Station: Not applicable				
Subordinate Station:				
Washington Office Review by (IV): Streetler	Date	fin	ne 17	961
Final Drafting by (IV): Rolagrammetric office-Partland	Date	De	:.17-	Febr. 60
Drafting verified for reproduction by (IV):	Date	je fra	ξe.	1961
Proof Edit by (IV): Italier	(Date		ely	1961

Land Area (Sq. Statute Miles) (III): 11

Shoreline (More than 200 meters to opposite shore) (III): 6 statute miles

Shoreline (Less than 200 meters to opposite shore).(III): none

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 6**

Recovered: 6₩

Identified: 5××

Number of BMs searched for (II): None

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): 4

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

4 were aids to navigation with U.S.E. triangulation positions

COMM- DC- 57842

SUMMARY TO ACCOMPANY SHORELINE MAP MANUSCRIPTS T-10858 through T-10869

The twelve (12) subject surveys, extending from MILLER ISLAND eastward to the town of ARLINGTON, Oregon are part of project Ph-5807. The entire project consists of fortynine (49) shoreline surveys which cover the Columbia River and adjacent land areas of Oregon and Washington from Bonneville eastward to Umatilla. It was designed to aid in the construction of a new series of nautical charts.

A stereoplanigraph bridging plot of the twelve subject surveys was done in the Washington Office in May 1959 (see separate report). They were compiled by Kelsh stereoscopic instruments in the Portland Photogrammetric Office during the latter part of 1959 from photography of August 1958 and field inspection information (shoreline, March-April 1959; interior, July-August 1959).

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

A cronar film positive at the compilation scale of 1:20,000 and the Descriptive Report of each will be registered and filed in the Bureau Archives.

June 1961

FIELD INSPECTION REPORT

Map Manuscript T-10858

Project Ph-5807

Refer to the Field Inssection Report for T-10856 thru T-10858 which is included in the Descriptive Report for T-10856 (1959).

PHOTOGRAMMETRIC PLOT REPORT Columbia River, PH-5807 Stereoplanigraph Bridging May 1959

21. Area Covered

T-10858 thru T-10869

22. Method

Three stereoplanigraph bridges were run and were designated as Strips #81, #82 and #83. All three were computed and adjusted by IBM methods. Strip #80 of a prior report covers most of the area of T-10858.

23. Adequacy of Control

All control stations within the area covered by the T-sheets numbered above held in their respective bridges and were adequate to control same. However, the bridged position of triangulation station ARLE (USE) 1942 SUB PT. B, which falls on T-10871, missed the true ground position for this station by about 100' in both X and Y, and it is recommended that this substitute station be eliminated.

24. Supplemental Data

None

25. Photography

Photographs used in the bridging described in this report are all of scale 1:30,000 and are numbered as follows:

STRIP 81: 58-S-7722A thru 7733A STRIP 82: 58-S-7711A thru 7716A STRIP 83: 58-S-7693A thru 7703A

Photography was adequate in quality.

26. Additional Information

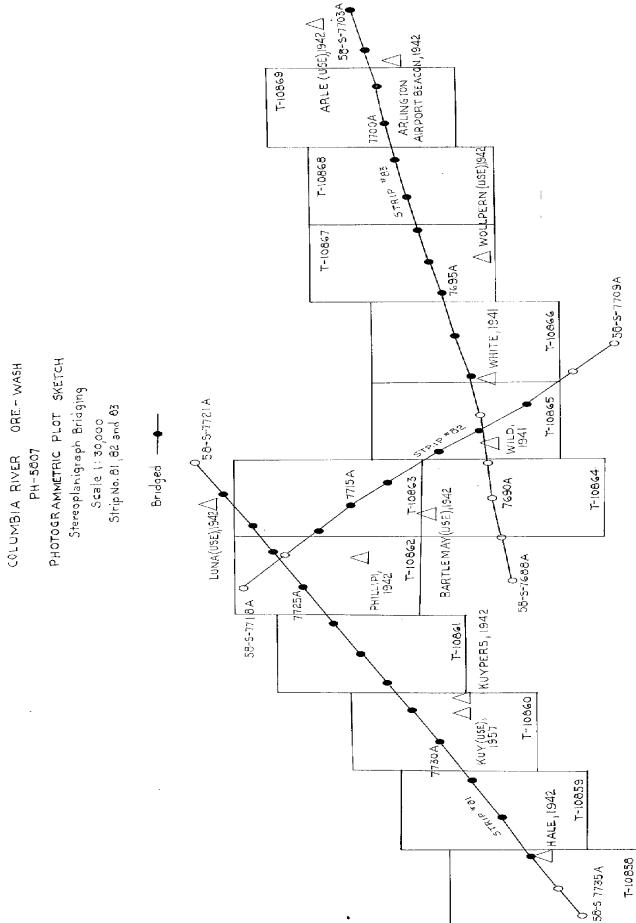
There were a few instances of pass points being common to two separate strips. In these cases the two positions obtained were meaned and the meaned positions were written in on the IBM computational sheets involved. The original positions were crossed out.

Submitted

RF. by MK Robert Fuechsel

Approved

Morton Keller Morton Keller



ALL CONTROL FIELD IDENTIFIED (refer toplot report)

FORM 164 (4.23-54)

U.S. DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT

COAST AND GEODETIC SURVEY

FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD None SCALE FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS 226.9) (1044.9)(186.5) 509.1 (1014.9) (_233.0) (1004.7)N.A. 1927-DATUM 479.1 1337.5 519.3 1291.0 FORWARD 1297.1 DATUM 1:10,000 OR PROJECTION LINE IN METERS (3428.13)(96,119 (3329.64)744.44) DISTANCE FROM GRID IN FEET, (764.39) (3296, 13)(BACK) SCALE OF MAP FORWARD 1670.36 4255.56 4388,02 1571,87 1703.87 4235.61 LONGITUDE OR x COORDINATE LATITUDE OR y-COORDINATE 1,919,255,56 731,571,87 1,919,388,02 731,670,36 731,703.87 1,919,235,61 PROJECT NO. Ph-5807 DATUM N.A. 1927 = = SOURCE OF Oreg.N. (INDEX) Pg. 73 MAP T- 10858 HAIE (USE) 1942 Sub Station "A" Sub Station "B" STATION 呂

COMM- DC- 57843

1-6-59

DATE

J.L.H.

CHECKED BY:

12-15-58

DATE.

J.E.D.

1 FT. = .3048006 METER

COMPUTED BY:

COMPILATION REPORT

Map Manuscript T-10858

Project Ph-5807

31. Delineation:

The Kelsh Stereoscopic Instrument was used to compile the planimetry.

The C&GS photography of 8-28-58 was adequate to compile the planimetry to the detail limits indicated on the project index.

Refer to last paragraph, Item 31, Delineation of the Descriptive Report for T-19837 (1959).

32. Control:

Refer to the Photogrammetric Plot Report (Stereoplanigraph Bridge) May 1959, T-10858 thru T-10869 which is included in this Descriptive Report.

Reference is made to this report Item 23, Adequacy of Control, relative to sub-point "B" for ARLE (USE) 1942. The original computation for the Oregon State coordinate position for this station was rechecked and found to be in error. When the new position was plotted it held along with all other control in the orientation of the Kelsh models.

33. Supplemental Data:

None.

34. Contours and Drainage:

Contours are not applicable.

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. topographic quadrangle, "Wishram", Oreg.-Wash., Scale 1:62,500 Published 1957.

35. Shoreline and Alongshore Details:

Refer to remarks under this heading in the Descriptive Report for T-10853 (1959).

36. Offshore Details:

Refer to remarks under this heading in the Descriptive Report for T-10853 (1959).

37. Landmarks and Aids:

Forms 567 for nautical aids and landmarks were submitted to the Washington Office on 10 Sept. 1959. Refer to remarks under this heading in the Descriptive Report for T-10837 (1959).

38. Control for Future Surveys:

Four objects were located by Kelsh Instrument. They are listed under Item 49. Notes to the Hydrographer. Three of these were selected principally for the use of the U. S. Coast Guard when locating floating aids to navigation in this area.

39. Junctions:

A satisfactory junction was made with T-10857 on the West and T-10859 on the East. There are no contemporary surveys to the North and South.

40. Horizontal and Vertical Accuracy:

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

46. Comparison with Existing Maps:

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

47. Comparison with Nautical Charts:

Refer to remarks under this heading in the Descriptive Report for T-10853 (1959).

Approved:

Lorne G. Taylor

CDR, C&GS

Officer-in-Charge

Respectfully submitted:

J. Edward Deal Cartographer

C&GS

GEOGRAPHIC NAMES LIST

Biggs Biggs Junction

Columbia Hills *Columbia River Columbia River Highway

Fulton Canvon

Klickitat County

≱Lake Celilo Lewis ♣ Clark Highway

Maryhill

*Oregon

Sherman County Spanish Hollow Spokane, Fortland & Seattle R.R.

Union Pacific R.R.

*Washington

* B.G.N. Decision

GEOGRAPHIC NAMES SECTION
10 MARCH 1960

49. Notes to the Hydrographer:

Forms 567 were submitted listing the geographic position of four fixed Aids to Navigation:

Biggs Rapids Range Front Light Hells Gate Range 2 Front Light Hells Gate Range 2 Rear Light Biggs Rapids Light

These aids to navigation were located by U. S. Engineers and verified by Kelsh Instrument.

Also three floating aids to navigation located by Sextant fix:

Biggs Rapids Buoy 16 Biggs Rapids Buoy 17 Hells Gate Rapids Buoy 15

Form 567 was submitted for one landmark located by Kelsh Instrument:

Elevator, 1959

Three other objects were located by Kelsh Instrument:

South Gable Green Roofed Shack East Gable, Biggs R. R. Depot Scale, 1959 (center of small scale house)

PHOTOGRAMMETRIC OFFICE REVIEW

T- 10358

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 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
9. Plotting of sextant fixes
ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline X 13. Low-water line None 14. Rocks, shoals, etc. X 15. Bridges None 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 None
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
J.Edward Deal
Reviewer 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.
Compiler Supervisor
43. Remarks: comm. DC 34529

REVIEW REPORT OF SHORELINE MAP MANUSCRIPTS T-10858 THROUGH T- 10869 June 1961

62. Comparison with Registered Topographic Surveys:

There are no registered topographic surveys of this area.

63. Comparison with Maps of Other Agencies:

WISHRAM, ORE.-WASH. 1:62,500 1957 U.S.G.S. WASCO, ORE.-WASH. 1:62,500 1957 U.S.G.S. ARLINGTON, ORE.-WASH. 1:125,000 Ed. of 1916 U.S.G.S.

There is good agreement between effected subject surveys and the later Geological Survey Quads of 1:62,500. Arlington quadrangle of 1916 at 1:125,000 does not permit a detailed comparison because of scale difference.

64. Comparison with Contemporary Hydrographic Surveys:

There are no contemporary hydrographic surveys of subject area.

65. Comparison with Nautical Charts:

The first nautical charts of this portion of the Columbia River are being constructed now and incomplete compilations are not available for comparison at this time.

66. Adequacy of Results and Future Surveys:

T-10858 through T-10869 were compiled according to instructions. No deficiencies in accuracy or adequacy are indicated.

, and the contract

Reviewed b

Approved by:

Chief, Review & Drafting Sec. Photogrammetry Division

XeWaysh 5/4/6

Division

Division

Chief, Nautical

Chief, Operations Division

NAUTICAL CHARTS BRANCH

SURVEY NO. <u>T-10858</u>

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
1-21-66	6158	H. Roddan	Before After Verification and Review App'd LNCurve
	<u> </u>		consider sheet fully applied
			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
	<u> </u>		Before After Verification and Review
	<u></u>		Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
		<u> </u>	

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.