10861

10861

Diag. Cht. No. 6157 Inset.

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. *Office No.* T-10861

LOCALITY

State Oregon and Washington

General locality Columbia River
Lake Celilo

Locality John Day River

19 59

CHIEF OF PARTY

Lorne G. Taylor, Photogrammetric Office

LIBRARY & ARCHIVES

DATE May 1962

USCOMM-DC 5087

FORM 181
(4-23-54)

2.

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T - 10861

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
Modification: Letter 73/rrj dated 9 March 1959
Letter 831/es dated 12 March 1959
Letter 732/rrj dated 21 May 1959
Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Kelsh Stereoscopic Instrument

Manuscript Scale (III): 1:10,000 Stereoscopic Plotting Instrument Scale (III): Viewing Scale 1:6000
Pantograph Scale 1:10,000

Scale Factor (III): None

Date received in Washington Office (IV): JUL 11 1961 Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 3 July 1961

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): N.A. 1927 Vertical Datum (III): Refer to datum profile 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 or mean lower low water~~

Reference Station (III): CLAUSEN (USE) 1942

Lat.: 45° 45' 44.147" Long.: 120° 39' 45.125" Adjusted X
Unadjusted

Plane Coordinates (IV): State: Oregon Zone: North

Y= 764,046.83 X= 1,958,517.12

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

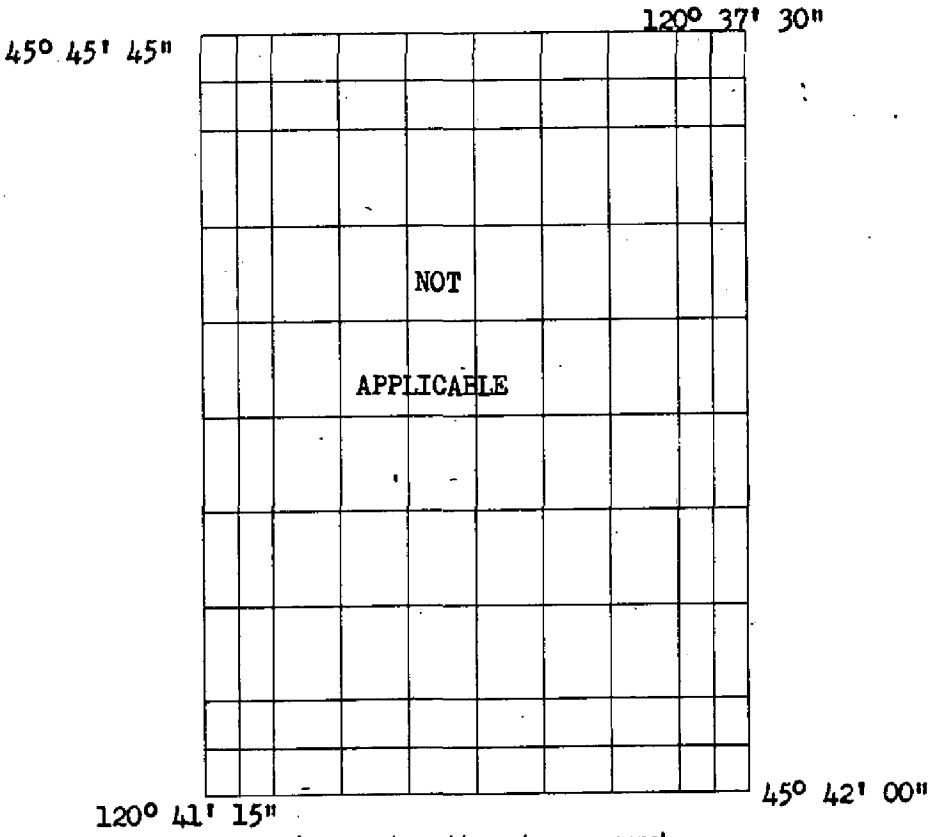
When entering names of personnel on this record give the surname and initials, not initials only.

COMM-DC-57842

FORM 181a
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD



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

FORM 181b
(4-23-54)

4.

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): C. H. Bishop (Shoreline) — Date: 1 & 3 April 1959
K. W. Jeffers (Interior) — August 1959

Planetable contouring by (II): — Date:

Completion Surveys by (II): — Date:

~~Mean High Water~~ Shoreline Location (III) (State date and method of location): Located by field inspection on 4/1 & 3/59 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 forebay of The Dalles Dam and proceeding upstream at the pool gradient of 8-28-58, the date of photography.

Projection and Grids ruled by (IV): P. Dempsey — Date: 5-6-59

Projection and Grids checked by (IV): — Date:

Control plotted by (III): J. L. Harris (Pass Points & U.S.E.) — Date: 6-4-59

Control checked by (III): J. E. Deal — Date: 7-20-59

Radial Plot or Stereoscopic Control extension by (III): Robert Fueschel — Date: May 1959

Stereoscopic Instrument compilation (III):
Planimetry L. D. Graves — Date: 9-21-59
Contours — Date:

Manuscript delineated by (III): D. N. Williams (Scribing) — Date: 12-9-59
D. N. Williams (Stick-up) — 1-14-60

Photogrammetric Office Review by (III): J. E. Deal (rough draft) — Date: 10-9-59
J. E. Deal (Advance) — 3-29-60

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

COMM-DC-57842

FORM 181c
(4-23-54)

5.

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

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

The Dalles Dam
Pool Level
~~Stage of Tide~~ (Forebay)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	
58 S 7726A thru 7728A	8-28-58	10:49	1:30,000 contact 1:10,000 ratio	159.76 ft. above MSL

Tide (III)

Ratio of Ranges	Mean Range	Spring Range

Reference Station:
Subordinate Station: Not Applicable
Subordinate Station:

Washington Office Review by (IV): J J Streffler Date: June 1961

Final Drafting by (IV): Portland Photogrammetric Office Date: Dec. 59-March 60

Drafting verified for reproduction by (IV): J J Streffler Date: June 1961

Proof Edit by (IV): J J Streffler Date: July 1961

Land Area (Sq. Statute Miles) (III): 11
Shoreline (More than 200 meters to opposite shore) (III): 10 statute miles
Shoreline (Less than 200 meters to opposite shore) (III): 2 " "
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 14* Recovered: 14* Identified: 13*
Number of BMs searched for (II): None Recovered: Identified:
Number of Recoverable Photo Stations established (III): 8**
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

* 13 Aids to Navigation with U.S.E. triangulation positions.

** All daybeacons.

4 Floating aids were located by Kelsh Instrument and
4 by sextant fix.

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 forty-nine (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-10861

Project Ph-5807

Refer to the Field Inspection Report for T-10859 thru T-10864 which is included in the Descriptive Report for T-10859 (1959).

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10861

Project Ph-5807

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

FORM 164
(4-23-54)

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

DESCRIPTIVE REPORT — CONTROL RECORD

MAP T-10861 PROJECT NO. Ph-5807 SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
CLAUSEN (USE) 1942	Oreg.N.	N.A.	764,046.83	4046.83 (953.17)		1233.5 (290.5)	
	Pg.72	1927	1,958,517.12	3517.12 (1482.88)		1072.0 (452.0)	

1 FT. = .3048006 METER

COMPUTED BY: J.E.D. DATE 2-26-59 CHECKED BY: L.L.G. DATE 2-27-59

COMM-DC-57843

.9

copy to field

COMPILATION REPORT

Map Manuscript T-10861

Project Ph-5807

31. Delineation:

The Kelsh Stereoscopic Instrument was used to compile the planimetry.

The C&GS 1958 photography was adequate to compile the planimetry to the detail limits indicated on the project index.

Refer to last paragraph under this heading in the Descriptive Report for T-10837 (1959), page 19.

32. Control:

Refer to remarks in the Descriptive Report for T-10858 (1959) and to the *Photogrammetric Plot Report for T-10858 thru T-10869* which is included in the Descriptive Report for T-10858 (1959).

33. Supplemental Data:

None.

34. Contours and Drainage:

Contours are not applicable.

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. topographic quadrangle, "Wasco" 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).

Because of high water conditions during the field inspection it was not practicable for the field unit to investigate and measure heights on many photograph images that appeared to be rocks just bare or awash at the shoreline gradient of the manuscript.

These were shown on the manuscript with the rock awash symbol with an (a) adjacent thereto. An appropriate note has been added in the legend explaining this symbol.

Refer to letter 711-kak, dated 3 Feb. 1960 regarding supplemental instructions on this subject.

37. Landmarks and Aids:

There were no landmarks located. Forms 567 were submitted to the Washington Office on 28 Sept. 1959 for nautical aids.

The location of Upper John Day Rapids Buoy 35 and John Day Rapids Buoy 37 is shown inshore from the shoreline gradient at normal pool level. These are apparently high water buoys and are probably only used for navigation during the high stages of the Lake Celilo Pool.

38. Control for Future Surveys:

There were eight daybeacons located by Kelsh Instrument. They are listed under Item 49. Notes to the Hydrographer.

39. Junctions:

A satisfactory junction was made with T-10860 on the west and T-10862 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 Wasco, Oreg. - Wash., 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

Lorne G. Taylor
CDR, C&GS

Respectfully submitted:

J. Edward Deal

J. Edward Deal
Cartographer, C&GS

T-10861

48. GEOGRAPHIC NAMES LIST

Columbia Hills
*Columbia River
Columbia River Hwy.

Gilliam County
Goff

Helms Canyon

John Day River

Klickitat County

Lower John Day Rapids

Middle John Day Rapids

Oregon

Sherman County
Spokane, Portland & Seattle R.R.

Union Pacific R.R.
Upper John Day Rapids

Washington

* B.G.N. Decision

GEOGRAPHIC NAMES SECTION
16 MAY 1960

49. Notes to the Hydrographer:

Forms 567 (3 pages) were submitted listing the geographic positions of fourteen aids to navigation which were located by triangulation by U.S.E. and verified with Kelsh Instrument:

Preachers Eddy Range Front Light
Preachers Eddy Range Rear Light
John Day Rapids Range 1 Front Light
John Day Rapids Range 1 Rear Light
John Day Rapids Range 2 Front Light
John Day Rapids Range 2 Rear Light
John Day Rapids Range 3 Front Light
John Day Rapids Range 3 Rear Light
John Day Rapids Range 4 Front Light
John Day Rapids Range 4 Rear Light
John Day Rapids Range 5 Front Light
John Day Rapids Range 5 Rear Light
Indian Rapids Range 1 Front Light
Indian Rapids Range 1 Rear Light.

In addition the scaled position of eight highwater daybeacons located by Kelsh Instrument are listed:

John Day Highwater Range 1 Front Daybeacon
John Day Highwater Rante 1 Rear Daybeacon
John Day Highwater Range 2 Front Daybeacon
John Day Highwater Range 2 Rear Daybeacon
John Day HighwaterRange 3 Front Daybeacon
John Day Highwater Range 3 Rear Daybeacon
John Day Highwater Range 4 Front Daybeacon
John Day Highwater Range 4 Rear Daybeacon

The scaled positions of four buoys located by Kelsh Instrument are also listed:

Lower John Day Rapids Buoy 28
Lower John Day Rapids Buoy 29A
Upper John Day Rapids Buoy 35
John Day Rapids Buoy 37

Also the scaled positions of four buoys located by sextant fix:

Lower John Day Rapids Buoy 29
Middle John Day Rapids Buoy 30
Middle John Day Rapids Buoy 31
Middle John Day Rapids Buoy 33

FORM 182.
(6-12-56)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

T-10861

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 None 18. Other alongshore physical features X 19. Other alongshore 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.

_____ 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.

Reviewed by:

Josef J. Streifler

Approved by:

Lester C. Lamb
Chief, Review & Drafting Sec.
Photogrammetry Division

Marvin T. Pankow
Chief, Nautical Chart Division

J. E. Waugh 5/4/62
Chief, Photogrammetry Division

Max B. Ricketts
Chief, Operations Division

NAUTICAL CHARTS BRANCH

SURVEY NO. T-10861

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
			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
			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.