

10857

Diag. Cht. No. 6157 Inset.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-5807 Office No. T-10857

LOCALITY

State Oregon and Washington

General locality Columbia River

Locality Miller Island

1958-59

CHIEF OF PARTY

L.G.Taylor, Chief of Party
K.W.Jeffers, Portland Photo. Off.

LIBRARY & ARCHIVES

DATE May 1962

USCOMM-DC 5087

10857

DESCRIPTIVE REPORT - DATA RECORD

T- 10857

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 83/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):

18 Aug 1961

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III):

N.A. 1927

Vertical Datum (III):

Mean sea level except as follows:

Elevations shown as (25) refer to mean high water

Elevations shown as (2) refer to sounding datum

i.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 the Lake Celilo Pool as of
the date of photography, 8-28-58.

Reference Station (III): FULTON (USE) 1942

Lat.: 45° 38' 02.256"

Long.: 120° 53' 24.841"

Adjusted X
Unadjusted

Plane Coordinates (IV):

State: Oregon

Zone: North

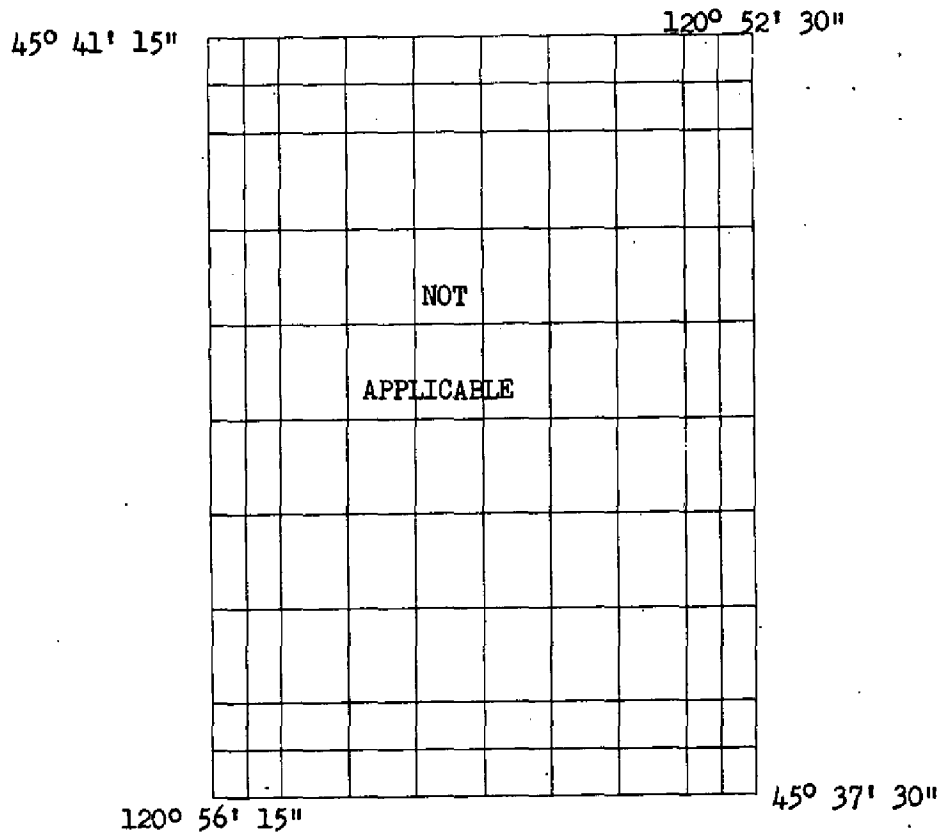
Y= 717,463.76

X= 1,900,177.10

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.

DESCRIPTIVE REPORT - DATA RECORD



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

DESCRIPTIVE REPORT - DATA RECORD

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

Date: 3-19 & 20-59
June 1959

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): Located by field inspection on 3-19 & 20-59 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' normal pool level at the forebay of The Dalles Dam ~~Pool~~ and proceeding upstream at the pool gradient of 8-28-58, the date of photography.

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

Date: 4-20-59

Projection and Grids checked by (IV): Shoup

Date: 4-20-59

Control plotted by (III): J. E. Deal

Date: 5-12-59

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

Date: 5-12-59

Radial Plot or Stereoscopic
Control extension by (III): Robert Feuschel

Date: May 1959

Planimetry L. L. Graves
Stereoscopic Instrument compilation (III):

Date: 7-23-59

Contours

Date:

Manuscript delineated by (III): J. L. Harris (Scribing)
J. L. Harris (Stick-up)

Date: 12-7-59
1-19-60

Photogrammetric Office Review by (III): J. L. Harris (rough draft)
J. E. Deal (advance)

Date: 8-3-59
1-25-60

Elevations on Manuscript
checked by (II) (III): None

Date:

DESCRIPTIVE REPORT - DATA RECORD

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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	PHOTOGRAPHS (III)		Scale	The Dalles Dam Stage of Rec. (Forebay)
		Time			
58-S-7737A	8-28-58	10:55		1:30,000 (contact) 1:10,000 (ratio)	159.8' above M.S.L.
58-S-7776A thru 7778A	"	11:09		DO	" " "

Tide (III)

Reference Station:

Subordinate Station:

Not Applicable

Subordinate Station:

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

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

Shoreline (More than 200 meters to opposite shore) (III): 12 Lin. miles

Shoreline (Less than 200 meters to opposite shore) (III): 1.0 " "

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 16*

Recovered: 13*

Identified: 9*

Number of BMs searched for (II):

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): 6

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

Remarks:

* 7 were fixed aids to navigation with U.S. Engineers positions.

1 temporary station was located and identified for photo. control.

Ratio of Ranges	Mean Range	Spring Range

Date:

Date:

Date:

Date:

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

These eleven (11) shoreline surveys are a part of PH-5807. The project covers the Columbia River and adjacent land areas of Oregon and Washington from Bonneville eastward to Umatilla. 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 Memaloose Island eastward to Miller Island.

A stereoplanigraph 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 (Kelsh 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 scribed sheets and suitable for the direct reproduction of registration copies.

A crownar 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

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FIELD INSPECTION REPORT

Map Manuscript T-10857

Project Ph-5807

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

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10857

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).

SCALE FACTOR None

COMM-DC-57843

COMPILATION REPORT

Map Manuscript T-10857

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-10837 (1959).

32. Control:

Refer to 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:

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, "Wishram", Oreg.-Wash., Scale 1:62,500, published 1957.

35. Shoreline and Alongshore Details:

The shoreline shown on this manuscript is at the gradient of Lake Celilo 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 the photography. A graph, printed on stick-up material, from which the elevation of the shoreline above M.S.L. may be determined at any given place has been applied to each manuscript.

For additional facts refer to the Descriptive Report for T-10837 (1959), page 21, paragraphs 2 thru 5 of Item 35.

36. Offshore Details:

Numerous small islands, rocks, foul areas, dolphins and piling have been shown as interpreted by the field unit.

The bearing data shown for the rocks refers to the gradient of the shoreline of the manuscript as described in Item 35, Shoreline and Alongshore Details.

37. Landmarks and Aids:

Forms 567 listing these features for nautical charts were forwarded to Washington on 31 August 1959. Refer to letter to The Director dated 26 February 1959, Subject: Location of "Aids to Navigation", Project Ph-5807. Refer to letter 73/rrj dated 9 March 1959, Subject: Modification to Instructions, Project Ph-5807, Columbia River - Aids to Navigation. Thermo-Fax copies of this correspondence are included at the end of the descriptive report for T-10837 (1959).

38. Control for Future Surveys:

Five objects and one marked station were located by Kelsh Instrument. They are listed in Item 49, Notes to the Hydrographer.

39. Junctions:

A satisfactory junction was made with T-10856 on the west, and T-10858 on the east. There is no contemporary survey to the north and south.

40. Horizontal and Vertical Accuracy:

Refer to remarks under this item in 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:

There are no Coast and Geodetic Nautical Charts of this area.

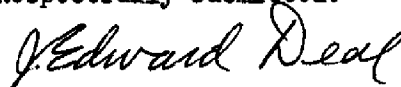
There is a set of five navigation charts compiled by the U. S. Engineers Office, 2nd Portland District (Oregon) May 1937, revised 1945. These are now obsolete because of the building of The Dalles Dam.

Approved:



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

Respectfully submitted:



J. Edward Deal
Cartographer
C&GS

GEOGRAPHIC NAMES LIST

Columbia Hills
*Columbia River
Columbia River Highway

Deschutes River

Fulton Canyon
Haystack Butte
Klickitat County

*Lake Celilo
Lewis & Clark Highway

Miller
Miller Island
Moody

*Oregon
Oregon Trunk R.R.

Sherman County
Spokane, Portland & Seattle R.R.

Union Pacific R.R.

Wasco County
*Washington

* B.G.N. Decision

George M. Bae
GEOGRAPHIC NAMES SECTION
10 MARCH 1960

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49. Notes to the Hydrographer:

Form 524 is submitted for GATE, 1959, a marked recoverable topographic station.

Three other objects were located by Kelsh Instrument:

CULV, 1959 (Easterly one of two, corrugated
metal culverts)

Miller Gage, 1959

Pump House on Miller Island, 1959

Forms 567 are submitted for two aids to navigation located by Kelsh Instrument:

South Channel Daybeacon 3, 1959

South Channel Daybeacon 7, 1959

Forms 567 are submitted showing U.S.E. positions for seven aids to navigation. These were verified by Kelsh Instrument:

Hells Gate Range 1, Front Light 1959

Hells Gate Range 1, Rear Light 1959

South Channel Range 2, Front Light 1959

South Channel Range 2, Rear Light 1959

South Channel Range 3, Front Light 1959

South Channel Range 3, Rear Light 1959

Biggs Rapids Range, Rear Light 1959

Four floating aids to navigation were located by sextant fix:

South Channel Buoy 2

South Channel Buoy 4

South Channel Buoy 5

Hells Gate Rapids Buoy 13

PHOTOGRAMMETRIC OFFICE REVIEW

T- 10857

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 None 16. Aids to navigation X 17. Landmarks None 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

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:

REVIEW REPORT
OF
SHORELINE MAP MANUSCRIPTS
T-10847 through T-10857
July 1961

62. Comparison with Registered Topographic Surveys

There are no registered topographic surveys of this area.

63. Comparison with Maps of Other Agencies

WHITE SALMON, ORE.-WASH., 1:62,500, 1957, U.S. Geological Survey
THE DALLAS, ORE.-WASH., 1:62,500, 1957, U.S. Geological Survey
WISHRAM, ORE.-WASH., 1:62,500, 1957, U.S. Geological Survey

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

64. Comparison with Contemporary Hydrographic Surveys

There are no contemporary hydrographic surveys of subject area.

65. 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.

66. Adequacy of Results and Future Surveys

T-10847 through T-10857 have been compiled according to instructions and meet the adequacy and accuracy requirements for this type of survey.

Reviewed by:

Joseph J. Streifler
Joseph J. Streifler

Approved by:

L. C. Lande
Chief, Review & Drafting Section
Photogrammetry Division

Mervin T. Carlson
Chief, Nautical Chart
Division

J. E. Waugh 4/17/62
Chief, Photogrammetry Division

Major K. K. Little
Chief, Operations Division

NAUTICAL CHARTS BRANCH

SURVEY NO. T-10857

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.