

10853

Diag. Cht. No. 6157 and 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-10853

LOCALITY

State Oregon and Washington

General locality Columbia River

Locality Horsethief Lake

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

10853

DESCRIPTIVE REPORT - DATA RECORD

T - 10853

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)

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): 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 or mean lower low water~~

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

Reference Station (III): B0, 1939

Lat.: 45° 39' 41.606"

Long.: 121° 06' 48.823"

Adjusted X
Unadjusted

Plane Coordinates (IV):

State: Oregon

Zone: North

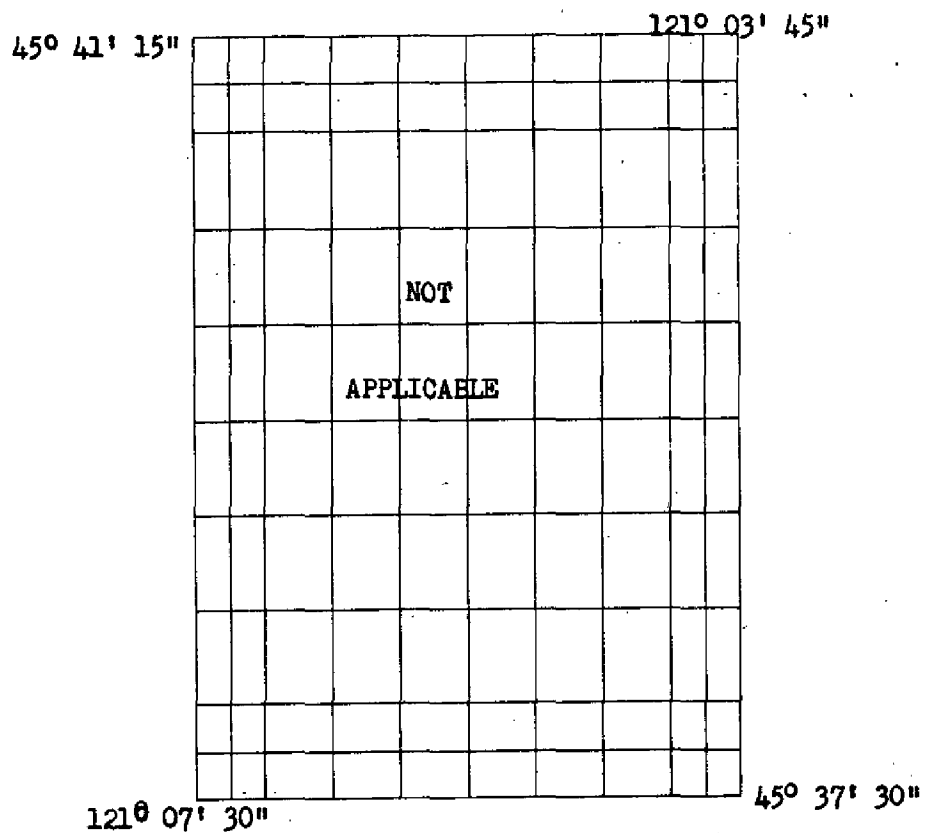
Y= 727,880.83 ft.

X= 1,843,126.38 ft.

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: 19 & 20 Mar. 1959
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 19 & 20 Mar. 1959 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 Celilo Lake Pool from 160.0 ft. normal pool level at the forebay of The Dalles Dam and proceeding upstream at the pool gradient of 28 ~~8-28~~ Aug. 1958, the date of photography.

Projection and Grids ruled by (IV):

P. Dempsey

Date: 4-13-59

Projection and Grids checked by (IV):

Shoup

Date: 4-14-59

Control plotted by (III):

L. L. Graves

Date: 5-7-59

Control checked by (III):

J. L. Harris

Date: 5-12-59

Radial Plot or Stereoscopic
Control extension by (III):

Robert Fuechsel

Date: May 1959

Stereoscopic Instrument compilation (III):

Planimetry L. L. Graves

Date: 7-15-59

Contours

Date:

Manuscript delineated by (III):

D. N. Williams (Scribing)
D. N. Williams (Stick-up)

Date: 11-27-59
12-24-59

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):

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

The Dalles Dam Pool
Level (Forebay)
Stage of Tide

Number	Date	Time	Scale	
58-S-7783A and 7784A	8-28-58	11:12	1:30,000 (Contact) 1:10,000 (ratio)	159.76 ft. above MSL
58-S-7813A thru 7815A	8-28-58	11:47	D0	"

Tide (III)

Reference Station:
Subordinate Station: Not applicable
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Date: June 1961
Date: Nov. 59 - Jan. 60
Date: June 1961
Date: Aug. 1961

Land Area (Sq. Statute Miles) (III): 12
Shoreline (More than 200 meters to opposite shore) (III): 7
Shoreline (Less than 200 meters to opposite shore) (III): None
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 7 Recovered: 5 Identified: 5*
Number of BMs searched for (II): None Recovered: Identified:
Number of Recoverable Photo Stations established (III): 1
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

2 Floating aids were located.

* 4 were new stations located in 1959
(Permanent Fixed Aids to Navigation)

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SUMMARY
TO ACCOMPANY SHOVELINE MAP MANUSCRIPTS
T-10547 through T-10557

These eleven (11) shoveline surveys are a part of PM-5807. The project covers the Columbia River and adjacent land areas of Oregon and Washington from Bannockville eastward to Umballa. It was designed to aid in the revision of present nautical charts and in the construction of new charts from the Dotted Line upstream to the Molokai Dam. Subject T-charts extend from the vicinity of Humbleton Island eastward to Miller Island.

A stereoplanigraph bridging plot of T-10547 through T-10557 was done in the Washington Office in February 1959 (see separate report). They were compiled by stereoscopic instruments (Kalon 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 manually sorted sheets and suitable for the direct reproduction of registration copies.

A camera 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-10853

Project Ph-5807

Refer to Field Inspection Report for T-10851, T-10853 and T-10855, which is included in the Descriptive Report for T-10851 (1959).

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10853

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

1 FT. = 30.48006 METER	DATE 12-12-58	CHECKED BY: J. L. H.	DATE 1-6-59	COMM-DC-57843
COMPUTED BY: J. E. D.				

COMPILATION REPORT

Map Manuscript T-10853

Project Ph-5807

31. Delineation:

The Kelsh Stereoscopic Instrument was used to compile the planimetry.

The Q&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 in 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, "The Dalles", Oreg. - Wash., Scale 1:62,500, published 1957.

35. Shoreline and Alongshore Details:

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 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 both nautical and aeronautical 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:

One object was located by Kelsh Instrument for use of the U. S. Coast Guard in their floating aid to navigation location. It is listed in Item 49: Notes to the Hydrographer.

39. Junctions:

A satisfactory junction was made with T-10851 on the west, T-10854 on the south and T-10855 on the east. There is no contemporary survey to the north.

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.C. & G.S. 15 minute "The Dalles", 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 River
Columbia River Highway

Eightmile Creek

Fifteenmile Creek

*Horse Thief Lake

Klickitat County

*Lake Celilo
Lewis & Clark Highway

Memaloose Island

*Oregon

Spearfish
Spokane, Portland & Seattle R.R.

Union Pacific R.R.

Wasco County

*Washington

* B.G.N. Decision

George M. Bue
GEOGRAPHIC NAMES SECTION
9 MARCH 1960

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49. Notes to the Hydrographer:

One recoverable topographic station was located by Kelsh Instrument:

S.P. & S. Railway Signal Control Box, 1959

Four permanent fixed aids to navigation were located by triangulation methods:

Big Eddy Light, 1959
Five Mile Rapids Light, 1959
Fivemile Lock Light, 1959
Memaloose Island Light, 1959

Two floating aids were located by sextant fix:

Memaloose Island Buoy 2
Memaloose Island Buoy 4

PHOTOGRAMMETRIC OFFICE REVIEW

T- 10853

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 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. _____ 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:

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REVIEW REPORT
OF
SHOELINE MAP MANUSCRIPTS
T-10047 through T-10057
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, ORG.-WASH., 1:62,500, 1937, U.S. Geological Survey
THE DALLAS, ORG.-WASH., 1:62,500, 1937, U.S. Geological Survey
WISHAM, 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.

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-chart 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-charts 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. Accuracy of Remarks and Figure Numbers

T-10047 through T-10057 have been compiled according to instructions and meet the accuracy and accuracy requirements for this type of survey.

Reviewed by:

Joseph J. Streifler
JOSEPH J. STREIFLER

Approved by:

L. C. Lande
CHIEF, REVIEW & INSPECTION SECTION
Photogrammetry Division

Mervin T. Burton
CHIEF, TECHNICAL GROUP
Division

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

Max B. Kille
CHIEF, OPERATIONS DIVISION

NAUTICAL CHARTS BRANCH

SURVEY NO. T-10853

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.