

10855

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-10855

LOCALITY

State Oregon and Washington

General locality Columbia River

Locality Browns River

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

10855

DESCRIPTIVE REPORT - DATA RECORD

T - 10855

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 1950

Method of Compilation (III): Kelsh Stereoscopic Instrument

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:6000

Scale Factor (III): None

Viewing Scale

1:6000

Pantograph Scale

1:10,000

Date received in Washington Office (IV): JUN 13 1960

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

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, 8-28-58.

Reference Station (III): KASER, 1939

Lat.: 45° 38' 19.614"

Long.: 121° 02' 22.136"

Adjusted
Unadjusted

X

Plane Coordinates (IV):

State: Oregon

Zone: North

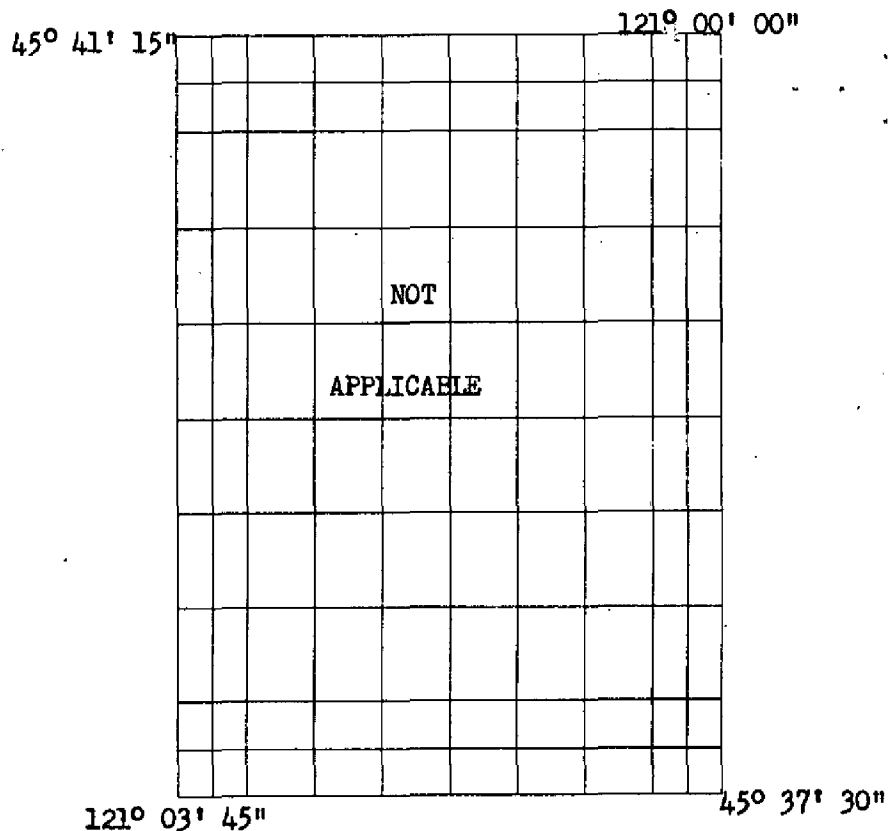
Y= 719,441.46

X= 1,862,011.10

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
K. W. Jeffers

Date: 19 & 20 March 1959
June 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 3-19 & 3-20-59 on single lens ratio prints taken 8-28-59 and delineated by Kelsh Stereoscopic Instrument on this 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 Aug. 1958, the date of photography.

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

Date: 4-16-59

Projection and Grids checked by (IV): Shoup

Date: 4-17-59

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

Date: 5-11-59

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

Date: 5-12-59

Radial Plot or Stereoscopic
Control extension by (III):

Robert Fuechel

Date: May 1959

Planimetry D. N. Williams

Date: 7-17-59

Stereoscopic Instrument compilation (III):

Contours None

Date:

Manuscript delineated by (III): Wesley V. Hull (Scribing)
D. N. Williams (Stick-up)

Date: 11-19-59
1-5-60

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

Date: 8-3-59
1-26-60

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

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,
Celilo Lake Pool
(Forebay)
~~Stage of 1960~~

Number	Date	Time	PHOTOGRAPHS (III)		Scale
58-S-7780A thru 7783A	8-28-58	11:11	1:30,000 (contact)	1:10,000 (ratio)	159.8' above M.S.L.

Tide (III)

Reference Station: Not applicable

Subordinate Station:

Subordinate Station:

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): 6 statute miles

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

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 2* Recovered: 2 Identified: 2

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

Remarks:

* one permanent Fixed Aid to Navigation was located by triangulation methods.

4 Floating Aids to Navigation (buoys) were located by Sextant fix.

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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 Nemaloose 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 cronar 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-10855

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.

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10855

Project Ph-5807

Refer to the Photogrammetric Plot Report, Columbia River,
Ph-5807 (Stereoplanigraph Bridge) T-10847 thru T-10857 which is
included in the Descriptive Report for T-10847, pages 12, 13 & 14.

COMPILATION REPORT

Map Manuscript T-10855

Project Ph-5807

31. Delineation:

The Kelsh Stereoscopic Instrument was used to compile the planimetry.

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

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

32. Control:

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).

33. Supplemental Data:

None.

34. Contours and Drainage:

Refer to remarks under this heading in the Descriptive Report for T-10851 (1959).

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:

Facts relative to this item are the same as described under this heading in the Descriptive Report for T-10837 (1959) except that the Forms 567 were forwarded on 31 August 1959.

38. Control for Future Surveys:

Four objects were located by Kelsh Instrument for use by the U. S. Coast Guard in the location of floating aids to navigation. They are listed under Item 49. Notes to the Hydrographer.

39. Junctions:

A satisfactory junction was made with T-10853 on the west and T-10856 on the east. There are no contemporary surveys to the north and south.

40. Horizontal and Vertical Accuracy:

Refer to remarks under this item in the Descriptive Report for T-10837 (1959).

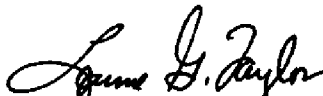
46. Comparison with Existing Maps:

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


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

Avery Siding

Browns Island

*Columbia River
Columbia River Highway

Dune Siding

Fifteenmile Creek

Klickitat County

*Lake Celilo
Lewis & Clark Highway

*Oregon

Spokane, Portland & Seattle R.R.

Union Pacific R.R.

Wasco County
*Washington

* B.G.N. Decision

George M. Bass
GEOGRAPHIC NAMES SECTION
10 MARCH 1960

49. Notes to the Hydrographer:

One permanent fixed aid was located by triangulation methods:

Mile 7 Light, 1959

Four objects were located by Kelsh Instrument as recoverable topographic stations:

S.P.& S. Railway Signal Control Box, 1959
Union Pacific Railroad Signal 916, Control Box, 1959
Top of Concrete Drainage Flume, 1959
Union Pacific Railroad Signal 941, Control Box, 1959

Four floating aids were located by sextant fix:

Avery Buoy 5
Browns Island Buoy 6
Avery Lighted Buoy 7
Dillon Buoy 8

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PHOTOGRAMMETRIC OFFICE REVIEW

T.10655

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. 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:

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 DALIAS, 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

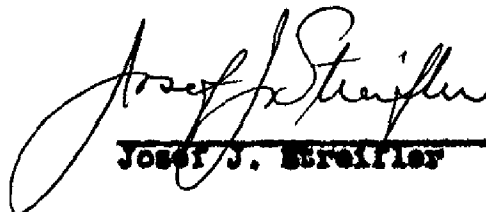
There are shoreline differences between these surveys, which should be considered in the future revision of chart 6157. Additional navigation aids have been installed since the field inspection of the T-sheets in 1959 and that are shown on the nautical chart. The surveys, however, are in agreement with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

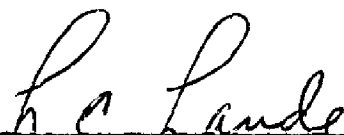
66. Adequacy of Results and Future Surveys

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

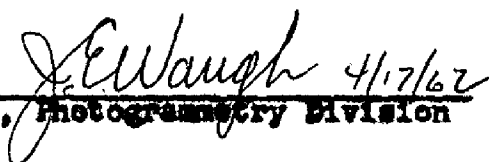
Reviewed by:


Josef J. Streifler

Approved by:


Chief, Review & Drafting Section
Photogrammetry Division


Chief, Nautical Chart
Division


Chief, Photogrammetry Division


Chief, Operations Division

NAUTICAL CHARTS BRANCH

SURVEY NO. T-10855

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.