10846

Diag. Cht. No. 6157.

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-5807 *Office No.* T-10846

LOCALITY

State Oregon and Washington

General locality Columbia River

Locality Mosier, Oregon

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

10846

FORM 181
(4-23-54)

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

DESCRIPTIVE REPORT - DATA RECORD

T - T-10846

Project No. (II): Ph-5807 Quadrangle Name (IV):

Field Office (II): Hood River, 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 83/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

FEB 16 1960

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

Applied to Chart No. Date: Date registered (IV): 18 Sept 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~~
From 72.0 ft. above M.S.L. at Bonneville Dam forebay and upstream at the gradient of Bonneville Pool as of the date of photography, 28 & 30 Aug. 1958.

Reference Station (III): MILEPOST (USE), 1939

Lat.: 45° 41' 57.170" Long.: 121° 25' 23.972" Adjusted X
Unadjusted

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

Y= 742,363.68 X= 1,764,086.76

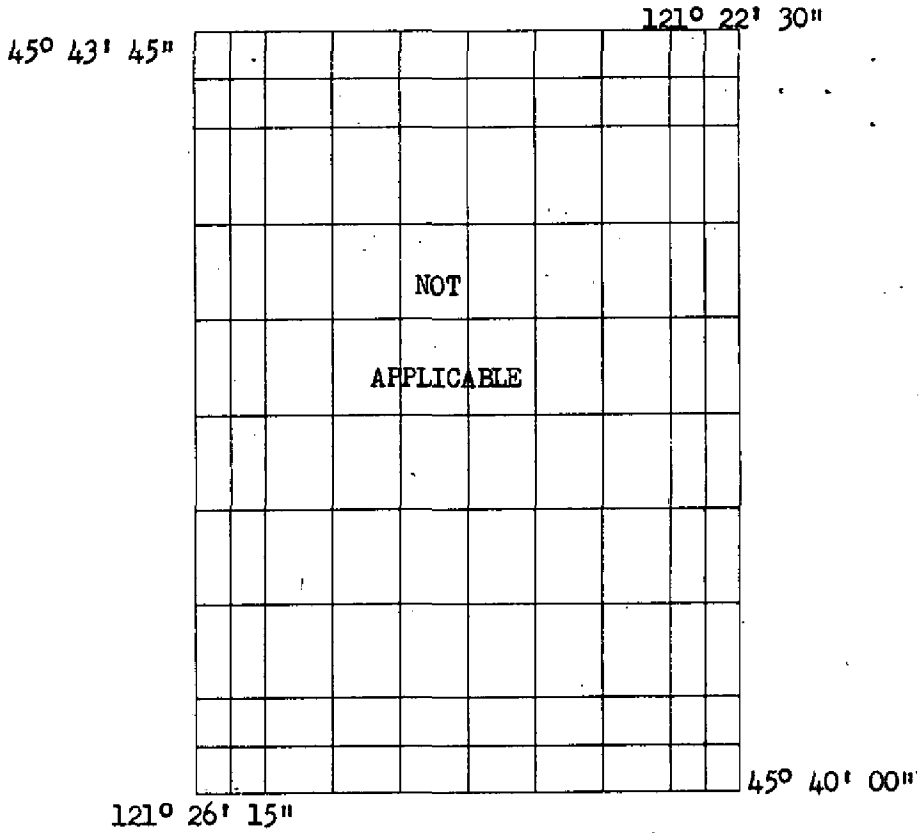
Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

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

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): Robert B. Melby — Date: 3-10-59, 4-28-59

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 3-10-59 and delineated by Kelsh Stereoscopic Instrument on models of C&GS photography dated 28 & 30 Aug. 1958. The shoreline is the gradient of Bonneville Dam Pool from 72.0 ft. normal pool level at the forebay and proceeding upstream at the pool gradient of 30 Aug. 1958, the date of C&GS photography.

Projection and Grids ruled by (IV): P. Dempsey — Date: 12-22-58

Projection and Grids checked by (IV): Shoup — Date: 12-24-58

Control plotted by (III): L. L. Graves, J. L. Harris — Date: 3-2-59, 5-11-59

Control checked by (III): J. E. Deal — Date: 3-4-59, 5-12-59

Radial Plot or Stereoscopic Control extension by (III): George Ball — Date: 2-11-59

Stereoscopic Instrument compilation (III):
Planimetry: D. N. Williams — Date: 7-24-59
Contours — Date:

Manuscript delineated by (III): L. L. Graves (Scribing), C. C. Harris (Stick-up) — Date: 10-27-59, 12-15-59

Photogrammetric Office Review by (III): J. L. Harris, J. E. Deal — Date: 8-14-59, 1-18-60

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

COMM-DC-57842

FORM 181c
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD 5.

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

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Bonneville Dam Pool ~~Stage of Tide~~ (Forebay)
58-S-7831A & 7832A	8-28-58	12:00	1:30,000 (contact)	73.5' above M.S.L.
58-S-7866A & 7867A	8-30-58	10:13	1:10,000 (Ratio)	73.6' " "

Tide (III)

Ratio of Ranges	Mean Range	Spring Range

Reference Station:
Subordinate Station: NOT APPLICABLE
Subordinate Station:

Washington Office Review by (IV): J.J. Stempler Date: July 1961

Final Drafting by (IV): Portland Photogrammetric Office Date: Oct 59-Jan 60

Drafting verified for reproduction by (IV): J.J. Stempler Date: July 1961

Proof Edit by (IV): J.J. Stempler Date: Sept. 1961

Land Area (Sq. Statute Miles) (III): 12
Shoreline (More than 200 meters to opposite shore) (III): 6
Shoreline (Less than 200 meters to opposite shore) (III): 0.5
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 23 Recovered: 18 Identified: 2
Number of BMs searched for (II): None Recovered: Identified:
Number of Recoverable Photo Stations established (III): 0
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

COMM-DC-57842

EXHIBIT
TO ACCOMPANY DESCRIPTIVE MAP MANUSCRIPTS
T-10037 through T-10046

The ten (10) subject map manuscripts represent the photogrammetric mapping surveys of project EX-5307. The project covers the Columbia River and adjacent land areas of Oregon and Washington from Bonneville Dam southward to the vicinity of Sandy Bar. It was designed to aid in the revision of existing nautical charts and in the construction of new ones from the Dalles upstream to Umatilla. T-10037 through T-10046 extend from Bonneville eastward to Rowland Lake.

A stereoplanigraph bridging plot of subject surveys was done in the Washington Office in February 1959 (see pages 13 through 16 of Descriptive Report T-10037). The map manuscripts were compiled by stereoscopic instrument (Kelsh Plotter) in the Portland Photogrammetric Office from March to July 1959 from photography of August 1958 (plus U.S. Engineers' photography of July 1957 and Bonneville Power Administration photography of July 1958) and results of field inspection of February to April 1959.

The completed compilations as furnished to the Washington Office are the result of adequately worked checks and suitable for the direct reproduction of registration copies.

A drawing film positive at the compilation scale of 1:10,000 and the Descriptive Reports of each will be registered and filed in the Bureau Archives.

August 1961

FIELD INSPECTION REPORT

Map Manuscript T-10846

Project Ph-5807

The report on the field inspection for this manuscript is part of a combined field inspection report for T-10844 thru T-10846. It is included in the descriptive report for T-10844 (1959).

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10846

Project Ph-5807

Refer to the "Photogrammetric Plot Report, Columbia River, Project Ph-5807 (Stereoplanigraph Bridge)", manuscripts T-10837 thru T-10845. This report is included in the descriptive report for T-10837, pages 13 thru 16.

While the title of the above report does not include T-10846 it was a part of the stereoplanigraph bridge for strip 58 T-10837 thru T-10845.

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT

COAST AND GEODETIC SURVEY
CONTROL RECORD

MAP T-10846 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)
Straights Point	Oreg.N.	N.A.	741,657.39	1657.39	(3342.61)		505.2	(1018.8)		
Light (Wash) 1939	Pg.41	1927	1,771,376.59	1376.59	(3623.41)		419.6	(1104.4)		
MILEPOST (USE)	"	"	742,363.68	2363.68	(2636.32)		720.4	(803.6)		
(WASH) 1939	Pg.40		1,764,086.76	4086.76	(913.24)		1245.6	(278.4)		
Ditto	Office	"	742,358.20	2358.20	(2641.80)		718.8	(805.2)		
Sub Station "A"	Comp.		1,764,186.61	4186.61	(813.39)		1276.1	(247.9)		
Ditto	"	"	742,320.66	2320.66	(2679.34)		707.3	(816.7)		
Sub Station "B"			1,764,153.02	4153.02	(846.98)		1265.8	(258.2)		
BENCH MARK T-533	Oreg.N.	"	738,117.60	3117.60	(1882.40)		950.2	(573.8)		
(OSHD) 1957	Pg.277		1,767,647.49	2647.49	(2352.51)		807.0	(717.0)		
GINGER (USE) 1957	"	"	738,109.96	3109.96	(1890.04)		947.9	(576.1)		
	Pg.275		1,767,570.02	2570.02	(2429.98)		783.3	(740.7)		
HIGHWAY, 1939	"	"	737,280.29	2280.71	(2719.29)		695.2	(828.8)		
	Pg.28		1,765,046.61	46.61	(4953.39)		14.2	(1509.8)		
MOSIER, 1939	"	"	736,719.75	1719.75	(3280.25)		524.2	(999.8)		
	Pg.28		1,774,242.70	4242.70	(757.30)		1293.2	(230.8)		
MOSIER DLC SOUTH WEST CORNER (USE) 1939	"	"	737,388.12	2388.12	(2611.88)		727.9	(796.1)		
	Pg.40		1,767,888.12	2888.12	(2111.88)		880.3	(643.7)		
MOSIER,RR BRIDGE OVER MOSIER CREEK E.END OF RIVER SIDE,1939	"	"	737,281.	2281.	(2719.)		695.2	(828.8)		
	Pg.41		1,771,733.	1733.	(3267.)		528.2	(995.8)		
MOSIER, SCHOOL, TIP	"	"	736,488.39	1488.39	(3511.61)		453.7	(1070.3)		
OF FLAGPOLE, 1939	Pg.41		1,770,112.79	112.79	(4887.21)		34.4	(1489.6)		
SHOGREN, 1957	"	"	740,848.46	848.46	(4151.54)		258.6	(1265.4)		
	Pg.275		1,775,802.99	802.99	(4197.01)		244.8	(1279.2)		

1 FT. = .3048006 METER

COMM-DC-57843

COMPUTED BY: J.E.D. DATE 12-1-59 CHECKED BY: J.L.H. DATE 12-5-59

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT — CONTROL RECORD

MAP T- 10846 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)
RIM, 1939	OregoN.	N.A.	743,113.02	3113.02	(1886.98)		948.8	(575.2)		
	Pg.28	1927	1,770,438.94	438.94	(4561.06)		133.8	(1390.2)		
McMAHON, 1939	"	"	748,215.77	3215.77	(1784.23)		980.2	(543.8)		
	Pg.26		1,767,911.43	2911.43	(2088.57)		887.4	(636.6)		
EIGHTEEN MILE ISLAND, BARN, NORTH GABLE, 1939	"	"	738,929.08	3929.08	(1070.92)		1197.6	(326.4)		
	Pg.40		1,764,692.38	4692.38	(307.62)		1430.2	(93.8)		
COURTNEY, 1939	"	"	744,120.31	4120.31	(879.69)		1255.9	(268.1)		
	Pg.28		1,764,225.72	4225.72	(774.28)		1288.0	(236.0)		
SOUTH BANK ALIGNMENT TIE, W17A(USE) 1939	"	"	741,672.38	1672.38	(3327.62)		509.7	(1014.3)		
	Pg.40		1,771,258.15	1258.15	(3741.85)		383.5	(1140.5)		
*WASCO LIGHT 24, 1958 (USE)	Portland District U.S.E.	"	739,607.98	4607.98	(392.02)		1404.5	(119.5)		
			1,763,969.58	3969.58	(1030.42)		1209.9	(314.1)		

*Note: The position of this station was obtained from the Portland District U. S. Engineers. The light was located by Kelsh Instrument and was in close agreement with the position. The station is not included in any C&GS triangulation scheme.

1 FT. = 3048006 METER

COMPUTED BY: J.E.D. DATE 12-1-59 CHECKED BY: J.L.H. DATE 12-1-59

COMM-DC-57843

COMPILATION REPORT

Map Manuscript T-10846

Project Ph-5807

31. Delineation:

The Kelsh Stereoscopic Instrument was used to compile the planimetry.

The C&GS photography of 8-28-58 and 8-30-58 was adequate to compile the planimetry to the limits of the map manuscript. The stereoplanigraph bridge, however, was not adequate to compile the entire area. The photography flight 58-S 7864A thru 7885A which was selected for the bridge lies in the northern portion of T-10846 and pass points for this manuscript were located no farther south than just inshore and adjacent to the Oregon shoreline of the Columbia River. In order to compile the town of Mosier, Oregon and other important planimetry models of photographs 58-S-7830A thru 7832A were oriented to the pass points located in the stereoplanigraph bridge for 58-S-7864A thru 7885A and planimetry was extended south to Latitude 45° 40'30". It is believed that this will be adequate for charting needs. Refer to modified instructions letter 732/rrj dated 21 May 1959.

Refer to the last paragraph under this heading in the descriptive report for T-10837.

32. Control:

Refer to the Photogrammetric Plot Report (Stereoplanigraph Bridge) T-10837 thru T-10845 and to an appendix to this report submitted by the Portland Photogrammetric Office. These are included as part of the descriptive report for T-10837 (1959) pages 13 thru 17.

The remarks in this report (T-10846) under Item 31, Delineation, relative to the adequacy of the stereoplanigraph bridge are also applicable to this heading.

33. Supplemental Data:

The city limits of Mosier, Oregon were transferred to the map manuscripts from a paper tracing entitled "City Limits of Mosier, Oreg". Scale 1" = 400', Wasco County Assessors Office. Two points common to this plan were identified by the field unit, located by Kelsh Instrument and then used to supplement the paper tracing when compiling the city limits.

Items 34 thru 37

Facts relative to the subjects of these items are identical with those described in the descriptive report for T-10837 (1959) except that under Item 34 the U.S.G.S. 15 min. topographic quadrangle, White Salmon, Oreg - Wash, Scale 1:62,500, published 1957 was available for comparison for drainage. Also under Item 37 the Forms 567 were forwarded to Washington on 31 Aug. 1959.

38. Control for Future Surveys:

None was located within the limits of this map manuscript.

39. Junctions:

A satisfactory junctions has been completed with T-10845 on the west and T-10847 on the east. There are no contemporary surveys to the north and south.

40. Horizontal and Vertical Accuracy:

Vertical accuracy is not applicable.

Refer to remarks in this report under Item 31, Delineation relative to the extension of planimetry beyond the limits of the pass points located in the stereoplanigraph bridge.

46. Comparison with Existing Maps:

Comparison was made with U.S.G.S. 15 minute, "White Salmon", Orego. - Wash. quadrangle, Scale 1:62,500, published 1957.

47. Comparison with Nautical Charts:

Identical with data contained in Descriptive Report for T-10837 (1959).

Approved:

Lorne G. Taylor
LCDR, C&GS
Officer-in-Charge

Respectfully submitted:

J. Edward Deal
Cartographer
C&GS

13

GEOGRAPHIC NAMES LIST

Campbell Creek
*Columbia River
Columbia River Highway

Eighteenmile Island

Klickitat County

Lewis & Clark Highway
Locke Lake

Mosier
Mosier Creek

*Oregon

Rock Creek
Rowland Lake

Spokane, Portland & Seattle R.R.
Straights Point

Union Pacific R.R.

Wasco County
Wasco Light
*Washington

* B.G.N.Decision

George M Baer
GEOGRAPHIC NAMES SECTION
9 MARCH 1960

10846

FORM 182
(6-12-56)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

T- 10846

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) None 7. Photo hydro stations None 8. Bench marks None
9. Plotting of sextant fixes None 10. Photogrammetric plot report X 11. Detail points None

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
HYDROGRAPHIC MAP MANUSCRIPTS
T-10237 through T-10256
August 1961

64. Comparison with Registered Topographic Surveys

A small portion of T-2507 (1938) of adjoining project TI-17 overlaps into T-10238. There are some discrepancies in this common area, however, the different datums could account for most of these. T-10238 supersedes T-2507 for the common use for nautical charting purposes. No other previously registered topographic surveys exist of subject coverage.

over datum places could

63. Comparison with Maps of Other Agencies

Sommerville Dam, Ore.-Wash., 1:62,500, 1957, U.S. Geological Survey
Hood River, Ore.-Wash., 1:62,500, 1957, U.S. Geological Survey
White Salmon, Ore.-Wash., 1:62,500, 1957, U.S. Geological Survey

Subject surveys at scale of 1:10,000 do not readily permit a detailed comparison with above-listed quadrangles at 1:62,500. However, observable differences exist throughout.

62. Comparison with Contemporary Hydrographic Surveys

There are no contemporary hydrographic surveys of subject area.

65. Comparison with Nautical Charts

6137 1:80,000 Revised to March 1951

There are considerable discrepancies between these surveys. An evaluation of these by the Nautical Chart Division for possible early consideration is recommended. Typical major discrepancies are at the following locations:

1. Lat. 45° 41', Long. 121° 31'- in the vicinity of Government Cove
2. Lat. 45° 41' 45", Long. 121° 41' - one long point of land and islands SW thereof
3. At the Oregon shore of Columbia River directly west of Hood River - White Salmon Bridge (lat. 45° 43' - long. 121° 30' to 31').

- 2 -

66. <u>Adequacy of Results and Future Surveys</u>

Subject surveys have been compiled according to instructions and no deficiencies in adequacy or accuracy are indicated.

Reviewed by:

Joseph J. Streifler

Approved by:

Chief, Review & Drafting Section   Chief, Nautical Chart Division

4/17/62

Chief, Photogrammetry Division   Chief, Operations Division

NAUTICAL CHARTS BRANCH

SURVEY NO. T-10846

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
May 1962	6157	J.M. Bailey	~~Before~~ After Verification and Review Part Appl'd
3/24/74	16531B	C. Jones	Before ~~After~~ Verification and Review consider 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
			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.