

10848

Orig

Diag. Cht. No. 6157.

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	Shoreline
Field No.	Office No. T-10848
LOCALITY	
State	Oregon & Washington
	Columbia River
General locality	Bonneville Dam Pool
Locality	Klickitat River
1958-59	
CHIEF OF PARTY	
Lorne G. Taylor, Photogrammetric Office	
K.W. Jeffers, Portland Photo. Off.	
LIBRARY & ARCHIVES	
DATE	May 1962

USCOMM-DC 5087

10848

DESCRIPTIVE REPORT - DATA RECORD

T- 10848

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

Copy filed in Division of
Photogrammetry (IV)

Modification: letter 73/rrj dated 9 March 1959

" 831/es dated 12 March 1959

" 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

Pantograph Scale

1:10,000

Scale Factor (III): None

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

10 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~~

~~from 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): LYLE, 1939

Lat.: 45° 41' 14.817"

Long.: 121° 16' 13.118"

Adjusted X

Unadjusted

Plane Coordinates (IV):

State: Oregon

Zone: North

y= 737,664.39 ft.

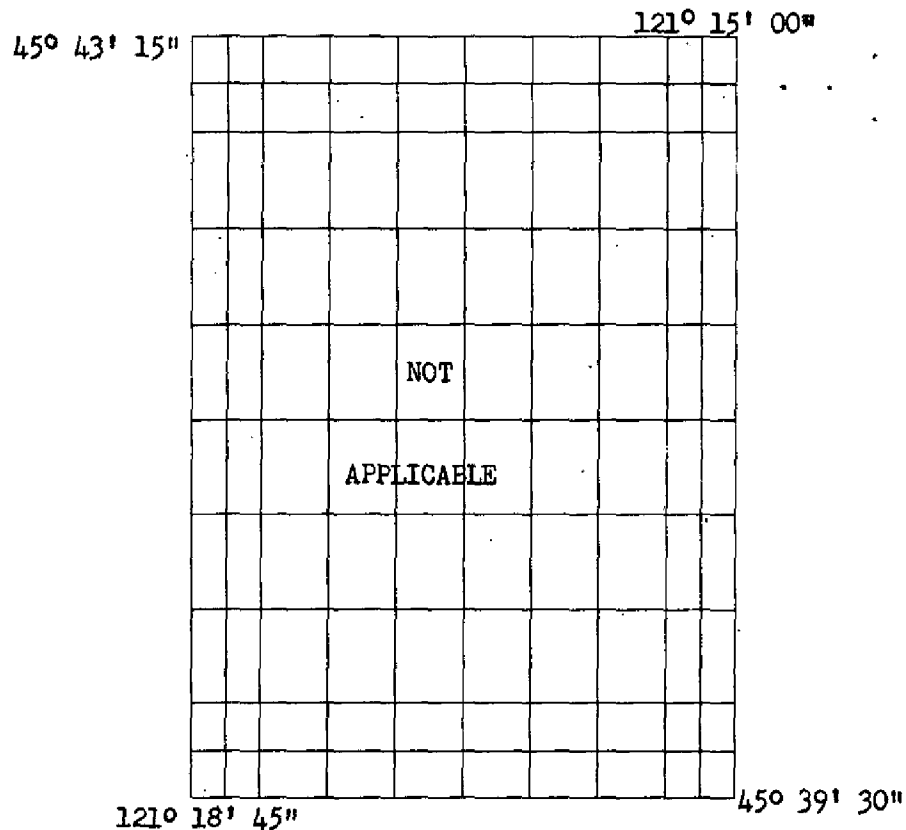
x= 1,803,140.48 ft.

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

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY



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

DESCRIPTIVE REPORT - DATA RECORD

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

Date: 11 & 16 March 1959
May 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 3-11 & 16-59 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 Bonneville Dam Pool from 72.0 ft. normal pool level at the forebay and proceeding upstream at the pool gradient of 28 & 30 Aug. 1958, the date of 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

Date: 3-2-59

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

Date: 3-5-59

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

Date: May 1959

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

Date: 6-9-59

Contours

Date:

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

Date: 7-20-59
1-11-60

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

Date: 6-19-59
1-25-60

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

Date:

DESCRIPTIVE REPORT - DATA RECORD

5.

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

Bonneville Dam Pool
Level (Forebay)
~~Stage of Tide~~

Number	Date	Time	Scale	
58-S-7820A			1:30,000 (contact)	
thru 7822A	8-28-58	11:52	1:10,000 (ratio)	73.5 ft. above MSL

Tide (III):

Ratio of Ranges	Mean Range	Spring Range

Reference Station:

Subordinate Station:

Subordinate Station:

Not applicable

Washington Office Review by (IV):

Date:

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 11

Shoreline (More than 200 meters to opposite shore) (III): 6

Shoreline (Less than 200 meters to opposite shore) (III): 2

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 20

Recovered: 13

Identified: 3

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:

6

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

These eleven (11) shoreline surveys are a part of PX-5307. 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 Knaploose 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 (Kalah 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 master 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-10848

Project Ph-5807

Refer to Field Inspection Report for T-10847 thru T-10849
which is included in the Descriptive Report for T-10847 (1959).

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10848

Project Ph-5807

Refer to the Photogrammetric Plot Report (Stereoplanigraph Bridge) for T-10847 thru T-10849 which is included in the Descriptive Report for T-10847 (1959).

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T-10848 PROJECT NO. Ph-5807 SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR λ -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
KLICKITAT RIVER	Oreg.N. Pg.277	N.A. 1927	740,242.26	242.26	(4757.74)		73.8	(1450.2)	
LIGHT 32, 1957	"	"	1,794,334.48	4334.48	(665.52)		1321.1	(202.9)	
JUNCTION/, 1957	"	"	733,468.52	3468.52	(1531.48)		1057.2	(466.8)	
"	Pg.276	"	1,801,509.91	1509.91	(3490.09)		460.2	(1063.8)	
Sub Station "A"	"	"	733,263.81	3263.81	(1736.19)		994.8	(529.2)	
"	"	"	1,801,472.93	1472.93	(3527.07)		448.9	(1075.1)	
Sub Station "B"	"	"	733,413.26	3413.26	(1586.74)		1040.4	(483.6)	
ROWENA RANGE FRONT	"	"	1,801,295.73	1295.73	(3704.27)		394.9	(1129.1)	
LIGHT 34, 1959	Office Comp.	"	736,929.38	1929.38	(3070.62)		588.1	(935.9)	
MAYER, 1939	Oreg.N. Pg.29	"	1,799,348.85	4348.85	(651.15)		1325.5	(198.5)	
McNEIL, 1939	"	"	734,822.96	4822.96	(177.04)		1470.0	(54.0)	
ROWENA, 1939	"	"	1,795,796.40	796.40	(4203.60)		242.7	(1281.3)	
LYLE, 1939	"	"	744,094.50	4094.50	(905.50)		1248.0	(276.0)	
LYLE HIGH SCHOOL	"	"	1,796,069.06	1069.06	(3930.94)		325.8	(1198.2)	
FLAGPOLE, 1939	"	"	730,355.66	355.66	(4644.34)		108.4	(1415.6)	
LYLE, SHEEP SHED,	"	"	1,805,499.03	499.03	(4500.97)		152.1	(1371.9)	
NORTH GABLE, 1939	"	"	737,664.39	2664.39	(2335.61)		812.1	(711.9)	
LYLE, SHEEP SHED,	"	"	1,803,140.48	3140.48	(1859.52)		957.2	(566.8)	
SOUTH GABLE, 1939	"	"	740,569.19	569.19	(4430.81)		173.5	(1350.5)	
"	Pg.42	"	1,799,484.73	4484.73	(515.27)		1366.9	(157.1)	
"	"	"	739,130.11	4130.11	(869.89)		1258.9	(265.1)	
"	"	"	1,799,449.52	4449.52	(550.48)		1356.2	(167.8)	
"	"	"	738,638.75	3638.75	(1361.25)		1109.1	(414.9)	
"	"	"	1,799,149.01	4149.01	(850.99)		1264.6	(259.4)	

1 FT. = 3048006 METER

COMPUTED BY J.E.D.

DATE 12-4-58

CHECKED BY J.L.H.

DATE 12-5-58

CONNA-DC-57843

COMPILATION REPORT

Map Manuscript T-10848

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 limits indicated on the project index.

Refer to the last paragraph under 31. Delineation on page 19 in the Descriptive Report for T-10847 (1959).

32. Control:

Refer to remarks in 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:

The limit lines of Mayer State Park were transferred from a plan furnished by the Oregon State Highway Dept., entitled "Boundary, Mayer State Park, Columbia River, Wasco County," Scale 1" = 400', dated 1-21-59. This print is submitted as part of the project data.

34 thru 37

Facts relative to the subjects of these items are identical with those described under these headings in the Descriptive Report for T-10837 (1959) pages 20 and 21 except that under Item 34 the U.S.G.S. 15 minute "White Salmon", Oreg-Wash. quadrangle, Scale 1:62,500 published 1957 was available for drainage comparison. Also under Item 37 Forms 567 were forwarded to Washington on 31 August. 1959.

38. Control for Future Surveys:

One fixed aid to navigation was located by Kelsh Instrument. It is listed under Item 49. Notes to the Hydrographer.

39. Junctions:

A satisfactory junction was completed with T-10847 on the west and T-10849 on the east. There are no contemporary surveys to the north and south.

40. Horizontal and Vertical Accuracy:

Refer to the remarks under this heading in the Descriptive Report for T-10837 (1959), page 22.

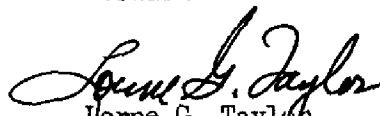
46. Comparison with Existing Maps:

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

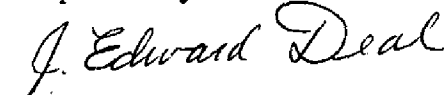
47. Comparison with Nautical Charts:

Refer to remarks under this heading in the Descriptive Report for T-10837 (1959), page 22.

Forwarded:


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

Respectfully submitted:


J. Edward Deal
Cartographer
C&GS

T-10848

GEOGRAPHIC NAMES LIST

Chamberlain Lake
Columbia Hills
*Columbia River
Columbia River Highway

Klickitat County
Klickitat River

Lewis & Clark Highway
Lyle

Mayer State Park

*Oregon

Rowena
Rowena Creek
Rowena Dell
Rowena Lookout

Silvas Creek
Spokane, Portland & Seattle R.R.

Union Pacific R.R.

Wasco County
*Washington

* B.G.N. Decision

George W. Bace
GEOGRAPHIC NAMES SECTION
9 MARCH 1960

49. Notes to the Hydrographer:

Form 567 has been submitted listing the geographic position of Rowena Range Front Light 34, 1959 which was located by triangulation methods and Rowena Range Rear Light, 1959 which was located by Kelsh Instrument.

The location of photo-hydro stations was not applicable to this project

PHOTOGRAMMETRIC OFFICE REVIEW

T. 10848

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 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 None 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. _____
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
10/
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. Landy
Chief, Review & Editing Section
Photogrammetry Division

William T. Paulson
Chief, Nautical Chart
Division

J. E. Waugh 4/26/62
Chief, Photogrammetry Division

Max B. Kellits
Chief, Operations Division

NAUTICAL CHARTS BRANCH

SURVEY NO. T-10848

Record of Application to Charts

[illegible]

M-216A-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.