

10849

Aug

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-10849
LOCALITY	
State	Oregon - Washington
General locality	Columbia River
Locality	Crates Point
19 58 58-59	
CHIEF OF PARTY	
Lorne G. Taylor, Photogrammetric Office	
LIBRARY & ARCHIVES	
DATE	May 1962

USCOMM-DC 5087

10849

DESCRIPTIVE REPORT - DATA RECORD

T - 10849

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

" 83les 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): 1:6000

Viewing Scale

Scale Factor (III): None

Pantograph Scale
1:10,000

Date received in Washington Office (IV): MAR 9 - 1960

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 -

4 ft. mean low water or mean lower low water

From 72.0 ft. above MSL at Bonneville
Dam forebay and upstream at the gra-
dient of the Bonneville Pool as of the
date of photography 28 & 30 Aug. 1958.

Reference Station (III): OIL (USE) 1939

Lat.: 45° 39' 50.968"

Long.: 121° 12' 55.463"

Adjusted X
Unadjusted

Plane Coordinates (IV):

State: Oregon

Zone: North

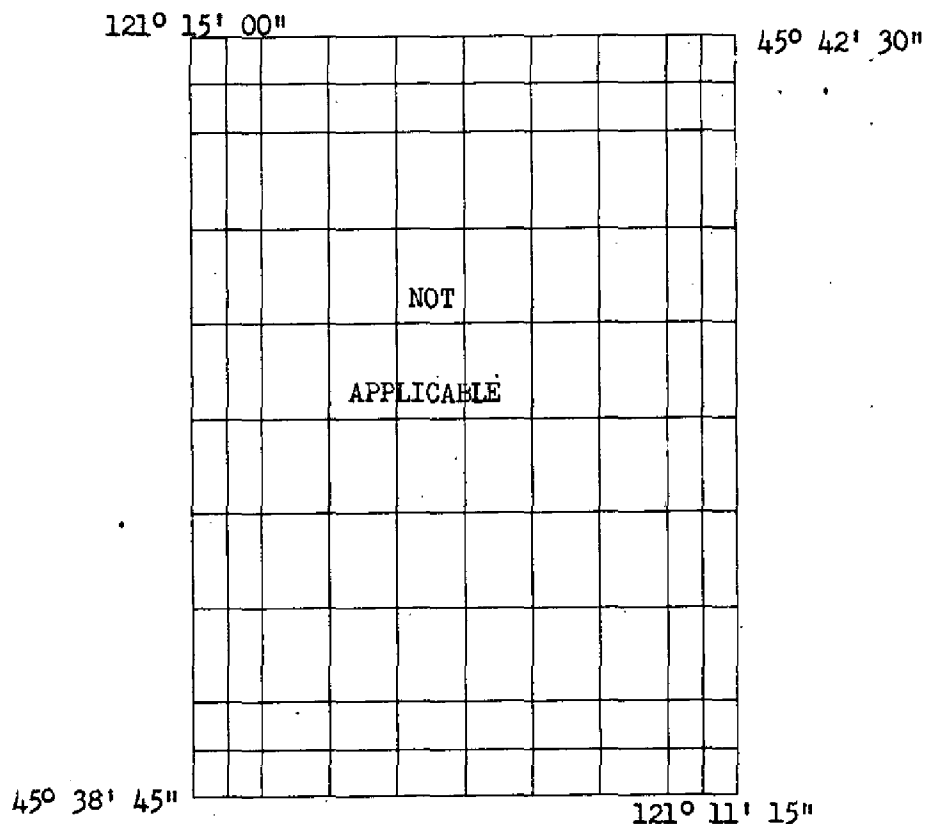
Y= 729,043.17

X= 1,817,096.13

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: 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 2-6-59 on single lens ratio prints taken 8-28-58 and delineated by Kelsh Stereoscopic Instrument on this 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 August 1958, the date of photography.

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

Date: 4-16-59

Projection and Grids checked by (IV): Shoup

Date: 4-20-59

Control plotted by (III): L. L. Graves

Date: 5-6-59

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

Date: 5-7-59

Radial Plot or Stereoscopic
Control extension by (III):

Robert Feuschel

Date: May 1959

Stereoscopic Instrument compilation (III):
Planimetry D. N. Williams

Date: 6-12-59

Contours

Date:

Manuscript delineated by (III):

J. L. Harris (Scribing)
L. L. Graves (Stick-up)

Date: 11-3-59
12-22-59

Photogrammetric Office Review by (III): J. L. Harris (Rough Draft)
J. E. Deal (Advance Complete)

Date: 6-26-59
1-21-60

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

Date:

DESCRIPTIVE REPORT - DATA RECORD

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

Number	Date	Time	Scale	Bonneville Dam Pool level (forebay) Stage of tide
58 S 7793A & 7794A	8-28-58	11:21	1:30,000 (contact) 1:10,000 (Ratio)	73.5 ft. above MSL
58 S 7818A & 7819A	8-28-58	11:50	"	"

Tide (III)

Reference Station:

Subordinate Station:

Subordinate Station:

Not applicable

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): 11

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): 17

Recovered: 15

Identified: 4

Number of BMs searched for (II): None

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): 5

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

Remarks:

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

These eleven (11) shoreline surveys are a part of FH-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 Hualapai 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 (Ketch 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-10849

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-10849

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).

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

MAP T. 10849

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 FORWARD (BACK)	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)	
SOUTH BANK Alignment tie, WLA (USE)(WASH) 1939	Oreg.N. Pg.43	N.A. 1927	733,273.97	3273.97 (1726.03)		997.9	(526.1)	
			1,815,000.98	0.98 (4999.02)		0.3	(1523.7)	
Sub Station "A"		"	733,468.30	3468.30 (1531.70)		1057.1	(466.9)	
			1,814,556.62	4556.62 (443.38)		1388.9	(135.1)	
Sub Station "B"		"	733,273.20	3273.20 (1726.80)		997.7	(526.3)	
			1,815,322.98	322.98 (4677.02)		98.4	(1425.6)	
SQUALLY PT. LIGHT, 1939	Oreg.N. Pg.43	"	729,193.50	4193.50 (806.50)		1278.2	(245.8)	
			1,817,116.29	2116.29 (2883.71)		645.0	(879.0)	
BENCH, 1939	" Pg.29	"	734,742.99	4742.99 (257.01)		1445.7	(78.3)	
			1,813,318.74	3318.74 (1681.26)		1011.6	(512.4)	
CRATES POINT LIGHT, 1939	" Pg.43		723,462.87	3462.87 (1537.13)		1055.5	(468.5)	
			1,820,793.26	793.26 (4206.74)		241.8	(1282.2)	
BPA THE DALLIES- GOLDENDALE LINE, TOWER C, 1957	" Pg.278	"	723,244.47	3244.47 (1755.53)		988.9	(535.1)	
			1,821,743.96	1743.96 (3256.04)		531.6	(992.4)	
BENCH MARK L 43 1939	" Pg.43	"	725,267.61	267.61 (4732.39)		81.6	(1442.4)	
			1,821,997.82	1997.82 (3002.18)		608.9	(915.1)	
BLOCK SIGNAL 3/4 MILE WEST OF SQUALLY PT., 1939	" Pg.42		730,686	686 (4314.)		209.1	(1314.9)	
			1,812,165	2165 (2835)		659.9	(864.1)	
CHARLIE, 1939	" Pg.29	"	728,316.97	3316.97 (1683.03)		1011.0	(513.0)	
			1,814,976.74	4976.74 (23.26)		1516.9	(7.1)	9.
GRAHAM, 1939	" "	"	729,446.04	4446.04 (553.96)		1355.2	(168.8)	
			1,811,390.45	1390.45 (3609.55)		423.8	(1100.2)	
OIL (USE) 1939	" Pg.43	"	729,043.17	4043.17 (956.83)		1232.4	(291.6)	
			1,817,096.13	2096.13 (2903.87)		638.9	(885.1)	

1 FT. = 3048006 METER

COMPUTED BY: J.E.D.

DATE 12-4-58

CHECKED BY: J.L.H.

DATE

12-5-58

COMMA-DC-57843

COMPILATION REPORT

Map Manuscript T-10849

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-10837 (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:

None.

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 "The Dalles" 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:

Five recoverable topographic stations were located by Kelsh Instrument. They are listed under Item 49: Notes to the Hydrographer.

39. Junctions:

A satisfactory junction was made with T-10848 on the west, T-10851 on the east and T-10850 on the south. There is no contemporary survey to the north.

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 "The Dalles" 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:



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

Respectfully submitted:



J. Edward Deal
Cartographer
C&GS

GEOGRAPHIC NAME LIST

Columbia Hills
*Columbia River
Columbia River Highway
Crates Point

Klickitat County

Lewis & Clark Highway

*Oregon

Spokane, Portland & Seattle R.R.
Squally Point

Tooley Lake

Wasco ~~the~~ County

*Washington

* B.G.N. Decision

George M. Bae
GEOGRAPHIC NAMES SECTION
9 MARCH 1960

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49. Notes to the Hydrographer:

Forms 567 have been submitted listing the geographic positions of the following landmarks which were located by Kelsh Instrument:

Easterly Tower of North Cable Crossing, 1959
Center Tower of South Cable Crossing, 1959
Westerly Tower of North Cable Crossing, 1959
Westerly Tower of South Cable Crossing, 1959

Also Form 524 has been submitted for:

Lyle Gage, 1959

PHOTOGRAMMETRIC OFFICE REVIEW

T. 10849

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 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 X 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, 1937, U.S. Geological Survey
THE DALLES, ORE.-WASH., 1:62,500, 1937, U.S. Geological Survey
WIERHAM, ORE.-WASH., 1:62,500, 1937, 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 A. Steifler
Joseph J. Steifler

Approved by:

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

Marvin T. Lambson
Chief, Nautical Charts
Division

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

Max R. Keltz
Chief, Operations Division

NAUTICAL CHARTS BRANCH

SURVEY NO. T-10849

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.