10873

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Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-5807 Office No. T-10873

LOCALITY

State Oregon and Washington

General locality Columbia River

Locality Heppner Junction

19.**59**...

CHIEF OF PARTY

Lorne G. Taylor, Photogrammetric Office

LIBRARY & ARCHIVES

May 1962

USCOMM-DC 5087

DESCRIPTIVE REPORT - DATA RECORD

T = 10873

Project No. (II): Ph-5807

Quadrangle Name (IV):

Field Office (II): Arlington, Oregon

Lorne G. Taylor Chief of Party:

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 1959

Method of Compilation (III): Kelsh Stereoscopic Instrument

Viewing Scale

Manuscript Scale (III):

1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:6000

Pantograph Scale

Scale Factor (III):

None

1:10,000

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

23 June 1961

Publication Scale (IV):

Publication date (IV):

Refer to datum pro-

Geographic Datum (III):

N.A. 1927

Vertical Datum (III): file on manuscript

Mean sea level except as follows:

Elevations shown as (25) refer to mean-high wa Elevations shown as (5) rafer to sounding datum i.a., mean-low water or mean lower low water U.S. Engineers Columbia River

Low-Water Profile

Reference Station (III):

LOWS (USE) 1942

Lat.:

450 461 57.425"

Long.:

1200 021 49,248"

Adjusted

X

Unadjusted

Plane Coordinates (IV):

State: Oregon Zone:

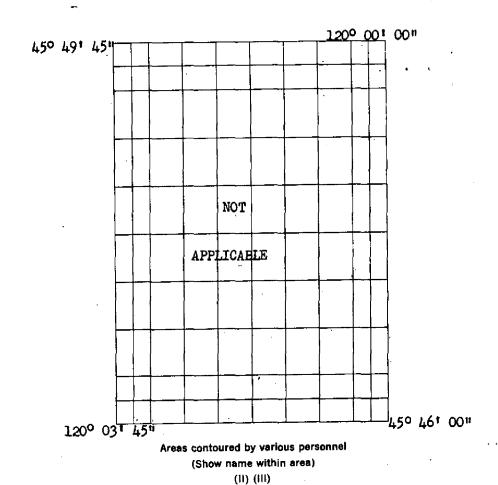
North

771.751.22

x = 2,115,571,24

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

Field Inspection by (II): R. B. Melby

W. V. Hull

Date: 4-10-59

Sept. 1959

Planetable contouring by (II):

Date:

Completion Surveys by (11):

Date:

Shoreline attraction (III) (State date and method of location):Located by field inspection on 4-10-59 on single lens ratio prints taken 8-28-58 and delineated by Kelsh Stereoscopic Instrument on this photography. The shoreline is the normal gradient of the Columbia River at 110,000 cfs.

Projection and Grids ruled by (iV):

P. Dempsey

Date: 6-30-59

Projection and Grids checked by (IV):

Shoup

Date: 8-3-59

Control plotted by (III):

J. L. Harrid (Pass Points)

Date: 8-24-59

Control checked by (III):

C. C. Harris

Date: 9-25-59

Radial Plot or Stereoscopic

John D. Perrow, Jr.

Date: June 1959

Control extension by (III):

Planimetry D.

D. N. Williams

Date: 9-29-59

Stereoscopic Instrument compilation (III):

Contours

None

Date:

Manuscript delineated by (III):

W. V. Hull (Scribing)
D. N1 Williams (Stick-up)

Date: 12-21-69

1-25-69

Photogrammetric Office Review by (III):

C. C. Harris (Rough Draft)

Date: 10-6-59

J. E. Deal (Advance)

3-31-60

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

None

Date:

Remarks:

DESCRIPTIVE REPORT - DATA RECORD

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

		The Dalles Dam		
Number	Date .	Time	Scale	(Forebay)
58-S-7637A & 7638A	8-28-58	9:30	1:30,000 Contact 1:10,000 Ratio	159.8' above M.S.L. Flow at Arlington Gage was 107,000 cfs.
*58-S-7653A & 7654#	8-28-58	9:30	DQ	

*Used for field inspection only.

Tide (III)	
	Ratio of Mean Spring Ranges Range Range
Reference Station:	
Subordinate Station: Not Applicable	
Subordinate Station:	
Washington Office Review by (IV):	Date: March 1961
Final Drafting by (IV): Partland Thatan Office	Date: Dec. 19 - March 60 Date: March 1961 Date: June 1961
Drafting verified for reproduction by (IV):	Date: March 1961
Proof Edit by (IV): Streeter	Date: June 1961
Land Area (Sq. Statute Miles) (III):	
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): 3 Recovered: 2	Identified: 1
Number of BMs searched for (II): None Recovered:	Identified:
Number of Recoverable Photo Stations established (III): 2	
Number of Temporary Photo Hydro Stations established (III): None	

SUMMARY to accompany Shoreline Map Manuscripts T-10870 through T-10885

The sixteen (16) subject surveys represent the eastern portion of project Ph-5807. The project consists of forty-nine (19) shoreline surveys of the Columbia River (Ore.-Wash.) from Bonneville eastward to Umatilla and was designed to aid in the construction of a new series of nautical charts. T-10870 thru T-10885 extend from Arlington to Umatilla, which are covered by a stereoplanigraph bridging plot done in the Washington Office in June 1959.

The map manuscripts were compiled by Kelsh stereoscopic instruments in the Portland Photogrammetric Office from photography of August 1958 and field inspection information (shoreline - April 59, interior - September 59).

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:\$0,000 and the Descriptive Report of each will be registered and filed in the Bureau Archives.

May 1961

FIELD INSPECTION REPORT

Map Manuscript T-10873

Project Ph-5807

Refer to Field Inspection Report for T-10870 thru T-10875, which is included in the Descriptive Report for T-10870 (1959).

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10873

Project Ph-5807

Refer to the Photogrammetric Plot Report (Stereoplanigraph Bridge) for T-10870 thru T-10885 which is included in the Descriptive Report for T-10870 (1959).

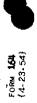
DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

AST AND GEODETIC SURVEY JONTROL RECORD

FROM GRID OR PROJECTION LINE IN METERS COMM- DC- 57843 (BACK) 9. None FORWARD DATE 1-7-59 SCALE FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS (962.0) (990,2) (1349.9)(1383.9)995.5) (1344.3)(153.2)(1151,6)(BACK) N.A. 1927 - DATUM FORWARD 562.0 528.5 179.7 372.4 140.1 533,8 1370,8 DATUM 1:10,000 J.L.H. 1734.05 (3265.95) OR PROJECTION LINE IN METERS (4428.76)(3156.29)(4540.43)(4410,59) (502,64) (3778, 26)(3248.78)DISTANCE FROM GRID IN FEET. (BACK) SCALE OF MAP. FORWARD 459.57 4497,36 1751,22 571,24 1843.71 589.41 1221.74 LONGITUDE OR x-COORDINATE LATITUDE OR #-COORDINATE 771,734.05 771,751,22 2,115,571,24 764,497,36 771,843.77 2,115,459.57 2,115,589.41 2,121,221,74 PROJECT NO Ph-5807 12-17-58 DATUM N.A. 1927 = = z SOURCE OF INFORMATION Oreg.N. PR. 73 = J.E.D. MAP T- 10873 WILLOWS (USE) 1942 1 FT. = .3046006 METER IOWS (USE) 1942 Sub Station "A" Sub Station "B" STATION COMPUTED BY ደ

CHECKED BY

DATE.



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COMPILATION REPORT

Map Manuscript T-10873

Project Ph-5807

31. Delineation:

The Kelsh Stereoscopic Instrument was used to compile the planimetry.

The C&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 Item 31, Delineation of the Descriptive Report for T-10837 (1959).

32. Control:

Refer to the Photogrammetric Plot Report (Stereoplanigraph Bridge) T-10870 thru T-10885 which is included in the Descriptive Report for T-10870 (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 supplimented by minute examination of the Kelsh models for drainage and by visual inspection of the U.S.G.S. topographic quadrangle, "Arlington", Oreg. - Wash., Scale 1:125,000, published 1948.

35. Shoreline and Alongshore Details:

The shoreline shown on this map manuscript is at the normal river gradient of 110,000 cfs flow. A graph showing this gradient from which the elevation of the shoreline may be determined for any place along the river is shown on the manuscript.

Refer to correspondence included in the Descriptive Report for T-10837 (1959) for a detailed report on this feature.

36. Offshore Details:

Refer to remarks under this heading in the Descriptive Report for T-10865 (1959).

37. Landmarks and Aids:

Form 567 was submitted to Washington on 12 October 1959 listing the scaled geographic position of one fixed aid to navigation. There are no aeronautical aids or landmarks within the area of this manuscript.

38. Control for Future Surveys:

One object was located by Kelsh Instrument as a recoverable topographic station. The aid to navigation mentioned in Item 37 and this object are listed in Item 49: Notes to the Hydrographer.

39. Junctions:

A satisfactory junction was made on the west with T-10872 and on the east with T-10874. There are no contemporary surveys to the north and south.

40. Horizontal and Vertical Control:

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

46. Comparison with Existing Maps:

Comaprison was made with U.S.G.S. 30 minute "Arlington", Oreg. - Wash. quadrangle, Scale 1:125,000, edited 1916, reprinted 1948.

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

48. GEOGRAPHIC NAMES LIST

Alder Ridge

*Columbia River Hwy.

Gilliam County

Happner Junction

Klickitat County

Oregon

Spokane, Portland & Seattle R.R.

Union Pacific R.R.

Washington Willows Willow Creek

* B.G.N. Decision

GOOGRAPHIC NAMES SECTION 47 May 1960

49. Notes to the Hydrographer:

Form 567 has been submitted listing the scaled geographic position of one fixed aid to navigation which was located by Kelsh Instrument:

Pine Creek Range 1 Rear Light, 1959

One other object was located by Kelsh Instrument?

West Gable; maroon roofed shack, 1959

14

PHOTOGRAMMETRIC OFFICE REVIEW

T-10873

1. Projection and grids X 2. Title X 3. Manuscript numb	ers X 4. Manuscript size X
CONTROL STATIONS	. •
5. Horizontal control stations of third-order or higher accuracy X	6 Description because of large
than third-order accuracy (topographic stations)	
9. Plotting of sextant fixes NODE 10. Photogrammetric plot report	11. Detail points
ALONGSHORE AREAS	
(Nautical Chart Data)	
12. Shoreline X 13. Low-water line None 14. Rocks, shoals, e	
to navigation X 17. Landmarks None 18. Other alongshore p	hysical featuresX19. Other along-
shore cultural featuresX	
PHYSICAL FEATURES	
20. Water features X 21. Natural ground cover X 22. Pla	netable contours None 23. Stereoscopic
instrument contours None 24. Contours in general None 25. S	
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	
overlay None 37. Descriptive Report X 38. Field Inspection p	•
40	Edward Deal Supervisor, Review Section or Unit
Reviewer	Supervisor, Review Section of Unit
41. Remarks (see attached sheet)	
FIELD COMPLETION ADDITIONS AND CORRECTIONS	S TO THE MANUSCRIPT
42. Additions and corrections furnished by the field completion survey ha	ave been applied to the manuscript. The
manuscript is now complete except as noted under item 43.	
Complier	Supervisor

43. Remarks:

REVIEW REPORT OF SHORELINE MAP MANUSCRIPTS T-10870 through T-10885 May 1961

62. Comparison with Registered Topographic Surveys:

There are no registered topographic surveys of this area.

63. Comparison with Maps of Other Agencies:

ARLINGTON, ORE.-WASH. 1:125,000, 1916, U.S. Geological Survey BLALOCK IS., ORE.-WASH. 1:125,000, 1906, U.S. Geological Survey UMATILLA, ORE.-WASH. 1:125,000, 1908, U.S. Geological Survey

Because of scale difference a detailed comparison is impractical.

64. Comparison with Comtemporary Hydrographic Surveys:

There are no contemporary hydrographic surveys of subject area.

65. Comparison with Nautical Charts:

The first nautical charts of this portion of the Columbia River are being constructed now. Incomplete compilations are not available for comparison.

66. Adequacy of Results and Future Surveys:

T-10870 through T-10885 have been compiled according to instructions and meet the adequacy and accuracy requirements for this type of survey.

Aref Streit

Josef J. Streffler

Approved by:

Chief, Réview & Brafting Sec.

Photogrammetry Division

Chief, Nautical Chart Division

Jellaugh 4/26/1

Chief, Photogrammetry Div.

hief, Operations Division

NAUTICAL CHARTS BRANCH

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
			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
			Before After Verification and Review
			Before After Verification and Review
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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.