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U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Chart Topography
Field No. PH-6804 Office No. TP-00026
LOCALITY
State Washington
General locality Snake River
Locality Lower Monumental Pool
•
<u>19 69</u> -70
CHIEF OF PARTY
Richard H. Houlder
LIBRARY & ARCHIVES
DATE

USCOMM-DC 5087

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USCOMM-DC 46200-P70

1	(2-70) ENVIRONMENTAL SCIENCE	SERVICES ADMIN.	TYPE OF SURVEY		AND STREET
			Y ORIGINAL	SURVEY	TP - 00026
	DESCRIPTIVE REPORT - DATA RE	CORD	-		
			REVISED	JOB	рн - <u>6804</u>
	PHOTOGRAMMETRIC OFFICE		FOR REVI	SED SURVEY US	E ONLY
	Rockville, Maryland		ORIGINAL	the Contract of the Contract o	PH
	OFFICENTIANOE		SURVEY DATA:	DATES:	TO 19
	Richard H. Houlder				
	I. INSTRUCTIONS DATED			2 5151 5	
	1, OFFICE		- 1	2. FIELD	
	from Marine Chart Division	1	Field	June	25, 1968
	April 3,	, 1968	Field Supple	ement I	
	Aerotriangulation Jan. 8,	1969		Aug.	21, 1968
	Office July 17,	, 1969			
	II. DATUMS		OTHER (Specify)		
	I. HORIZONTAL: 1927 NORTH	AMERICAN			
	☐ MEAN HIGH-W	ATER	OTHER (Specify)		
	2. VERTICAL:		Normal Pool	Level 54	oft. MSL
	MEAN LOWER				
1	3. MAP PROJECTION			4. GRID(S)	
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	5. SCALE		STATE	ZONE	
	1:10,000				
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	2. CONTROL AND BRIDGE POINTS METHOD: Coradi	PLOTTED BY CHECKED BY	J. C. Rich	tec	Sept. 1969
	3. STEREOSCOPIC INSTRUMENT	PL ANIMETRY BY	J. C. Richte		Sept. 1969
	COMPILATION	CHECKED BY			
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	5. OFFICE INSPECTION PRIOR TO FIELD EDIT	CHECKED BY	J.P. Battl	leil	Feb. 1970
		ВУ	1	-3	1
	6. APPLICATION OF FIELD EDIT DATA	CHECKED BY	M. C. Webber		June 1970
		DV	IT D Dott	V	Oct. 1969
	7. COMPILATION SECTION REVIEW	ВУ	J. P. Battle	-	
	8. FINAL REVIEW	ВУ	J. P. Battle	-	June 1970
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SUPERSEDES FORM C&GS 181 SERIES

ESSA FORM 76-36 A

COMPILATION SOURCES

1. COMPILATION PHO	OTOGRAPHY	and the second							
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from color	photogr	raphy dated	July	1, 1	968, and	Sept.	196	9.	
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4. CONTEMPORARY	1	IC SURVEYS (List of	only those su	rveys th	at are sources f	or photogran	nmetric	survey info	rmation.)
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ESSA FORM 76-36c (2-70)

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HISTORY OF FIELD OPERATIONS TP-00026

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ESSA FORM 76-36d

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

		RECO	RD OF SURVE	Y USE		
I. MANUSCRI	PT COPIES					
	COM	IPILATION STAGE	s		DATE MANUSCRI	PT FORWARDED
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Field Ed	lit Applied	June 1970				
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II. LANDMAR	KS AND AIDS TO NAVIGAT	ION				
1. REPOR	TS TO MARINE CHART DIV	ISION, NAUTICAL	DATA BRANCH			
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IV. SURVEY	REVISION (This section she	JOB NUMBE		y is registered.)		<u> </u>
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REVISION	DATE OF PHOTOGRAPH	Y DATE OF FI	ELD EDIT			
	SURVEY NUMBER	JOB NUMBE	R	REMARKS		
SECOND REVISION	TP.	(3) PH-	,			
	DATE OF PHOTOGRAPH	Y DATE OF FI	ELD EDIT			
	SURVEY NUMBER	JOB NUMBE	R	REMARKS		
THIRD	TP.	(4) PH -				
REVISION	DATE OF PHOTOGRAPH	Y DATE OF FI	ELD EDII			

Summary to Accompany
Descriptive Reports TP-00019
through TP-00027
PH-6804
June 1970

This project consists of nine chart topography manuscripts, covering the Lower Monumental Dam and Pool area on the Snake River, Washington. The manuscripts were compiled at a scale of 1:10,000 to provide the base for a new small-craft route chart, (683-SC), scale 1:20,000.

The Lower Monumental Pool was formed by impounding the water behind Lower Monumental Dam east to the Little Goose Dam.

Field operations prior to bridging included the premarking of horizontal control, selecting photoidentifying and determining elevations of photogrammetric vertical control points, identifying and determining the elevation of features critical for charting and a geographic names investigation. This was completed in November 1968.

Bridging of the entire Pool area was completed in August 1969 by the analytical aerotriangulation method. 1:40,000 scale color diapositives were bridged and numerous points common to the 1:20,000 scale compilation photography were obtained to control these models.

Compilation was accomplished in the Washington Office in August-September 1969 utilizing 1:20,000 scale color photography taken July 1, 1968, prior to the flooding of the pool area. The normal pool level after flooding was established at 540 ft. above MSL. The river level for the area prior to flooding was approximately 440 ft. above MSL at the Lower Monumental Dam to 530' in the vicinity of Little Goose Dam. The area between the prescribed normal pool level and the prior river level was contoured on the B-8 stereoplotter at intervals compatible with required depth curves, (3',6',9',12',18', etc.) and were supplemented with spot elevations (soundings) to define shoals, gentle slopes and deep water. Rigid vertical and horizontal accuracy was maintained during compilation to comply with project instructions. Along with this bathemetry, the required chart compilation features were delineated above the 540 ft. normal pool level shoreline. This included the 600 ft. contour line for use by marine charts in correlating the compilation with existing maps.

Field edit was completed in April 1970 and encompassed the verification and/or location of aids to navigation and landmarks, a facility survey and verification of compiled features.

The application of field edit revisions and additions was completed in June 1970 for the entire project. Final review was also completed in June.

Advance copies prior to field edit had been supplied to the Small Craft Branch of the Marine Chart Division. Field edit corrections and/or additions were minimal and this afforded the Small Craft Branch more "lead time" to compile new route Chart 648-SC. Final copy will be sent to Marine Chart Division along with the facilities report.

A Registration Manuscript Copy will be registered in the Bureau Archives under their respective TP-numbers.

Submitted by,

J. P. Battley, Jr.

Photogrammetric Plot Report Job PH-6804 Snake River, Lower Monumental Pool Washington

August 1969

21. Area Covered

This report covers the Snake River from the Lower Monumental Dam to the Little Goose Dam, consisting of nine (9) 1:10,000 scale sheets, TP-00019 thru TP-00027.

22. Method

Eight (8) strips were bridged using analytical aerotriangulation methods. Strips 1 and 2 were 1:40,000 scale color diapositives and strips 3 thru 8 were 1:20,000 scale color diapositives. Strips 1 and 2 were bridged using premarked control. The control does not appear on the 1:20,000 scale photographs as the photography was flown prior to premarking. Numerous tie points were located from the 1:40,000 scale bridge to control the 1:20,000 scale photography.

The attached sketch of the strips bridged shows the placement of triangulation used in the final strip adjustments. All bridge points are on Washington South Zone plane coordinates and converted to Mercator values.

23. Adequacy of Control

All horizontal control was premarked and was adequate to control the 1:40,000 scale bridge. The field party furnished elevations to vertically control each strip of 1:20,000 scale photographs and proved very adequate.

24. Photography

The definition and quality of the RC-8 "E" photography were good. No difficulty was encountered in the bridging of any strip.

Respectfully submitted,

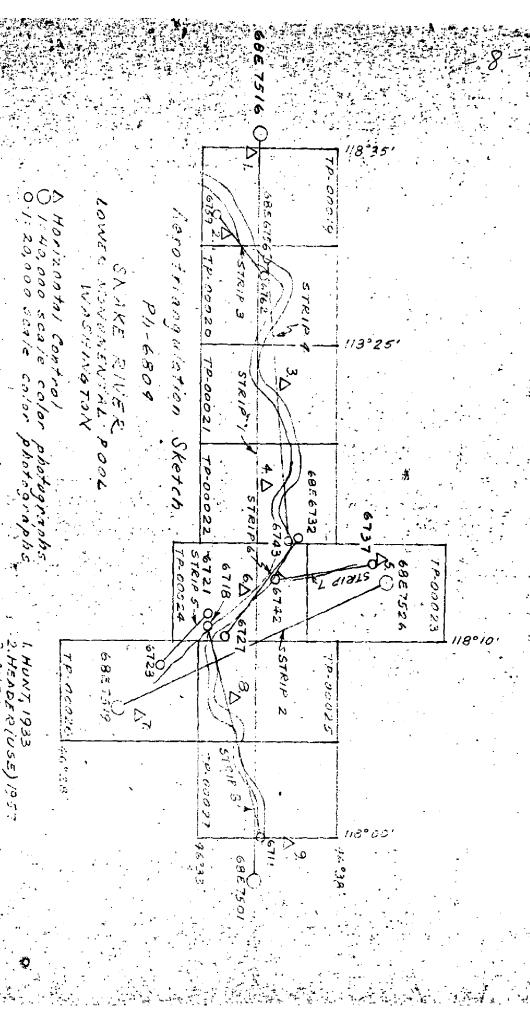
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Approved and forwarded,

Chief, Aerotriangulation

Section



COMPILATION REPORT TP-00026

Refer to Descriptive Report No. TP-00019 for Field Inspection and Photogrammetric Plot Reports. All seports are included zuthin This Descriptive Report 31. Delineation

TP-00026 is a 1:10,000 scale chart compilation manuscript of part of the Tucannon River.

Color photography, scale 1:20,000 taken July 1, 1968, was bridged and used for delineation. This photography was supplemented with 1:20,000 photography taken in Sept. 1969 after the Lower Monumental Pool was flooded. 1:10,000 ratio prints were compared with the inked manuscript and additions or revisions were made.

A cronaflex copy and ozalid copies were ordered for this manuscript for field edit use.

After field edit is applied 1/2 reductions will be made for chart compilation at 1:20,000 scale.

32. Control

All horizontal control was premarked and adequate in density and placement.

Vertical control was of prime importance for this project as the area contoured is to be used for bathymetry (depth curves, etc.)

Excellent vertical accuracy was achieved in the bridge from numerous field identified vertical points.

(See Photogrammetric Plot Report.)

33. Supplemental Data

None used in photogrammetric compilation. De item 63 of the Review Report the C. of E. drawings were referred to during compilation,

34. Contours and Drainage

Color photography at 1:20,000 scale was bridged by analytic methods and used in the B-8 stereoplotter for contouring. This photography taken in July 1968 before the pool area was flooded is of good quality and contours within the required accuracy (\pm 2 ft.) were obtained.

Contours were drawn at prescribed intervals from the old river shoreline to 537 ft.

These intervals were: 3 ft. from 540 ft. shoreline to 534 ft. contour (6' depth curve), 6 ft. intervals from 534 ft. to 510 ft. (30' depth curve) and 10 ft. intervals to the old river level.

In areas of congestion the 534 ft. and the 522 ft. (6' and 18') depth curves were given preference and contoured without feathering.

The 540 ft. elevation was contoured as the shoreline at normal pool level.

35. Shoreline and Alongshore Detail

The shoreline was delineated as stated in Paragraph 34. Color photography of Sept. 1969 taken after the Lower Monumental Pool was flooded was ratioed and compared with the contoured shoreline. Minor differences were noted and revised.

36. Offshore Detail

No comment.

37. Landmarks and Aids

U. S. Coast Guard Civil Engineering blueprints were furnished for location of Aids to Navigation. This was used to help locate the Aids on the 1969 ratioed photographs. A few of the Aids could not be located and will have to be located during field edit.

Landmarks are to be located during field edit.

-3-

38. Control for Future Surveys

None

39. Junctions

Junctions were made to the north with TP-00025, to the west with TP-00024 and are in agreement.

40. Horizontal and Vertical Accuracy

Refer to Paragraph 23 of Photogrammetric Plot Report and Paragraph 32 of this report.

41. thru 45.

Inapplicable.

46. Comparison with Existing Maps

Comparison has been made with USGS Quadrangle Starbuck, Washington, scale 1:62,500 dated 1950, contour interval 40 ft.

Compilation instructions state that all detail and the 600 ft. and 700 ft. contours that have been changed above the 540 ft. pool level should tie into the existing quadrangle. Areas of change were compiled and this tie made. Comparison was made with Cofk Drawings 47. Comparison with Nautical Charts

No chart exists in this area. This is a new chart compilation for Chart No. 683-SC.

Respectfully submitted,

John C. Richter Cartographer

Approved and forwarded,

K. N. Maki

Chief, Compilation Section

June 24

FINAL NAME SHEET

TP-00026

choke Cherry Canyon*

Kellogg Creek *

Powersy

TUCANNON RIVER -Union Pacific Railroad _

Approved by:

Chief Geographer

Cartographic Technician

Chart Topography
Lower Monumental Pool
Snake River, Washington
Map Manuscripts TP-00019 through TP-00027

This report covers the portion of the Snake River impounded by the Lower Monumental Dam, and entirely within the State of Washington.

The entire shoreline was inspected by vehicle or small boat. The shoreline and alongshore features were compared with the field edit copies of the map manuscripts (discrepancy prints) and/or the field edit color photographs.

The field edit copies (discrepancy prints) of the map manuscripts were used as the index for the field corrections and the numbers of the photographs used for such corrections appear on the discrepancy prints.

Adequacy of Compilation

The extent and accuracy of the maps appear to be reasonably complete, considering the compilation was without the benefit of field inspection.

As the river passes through a definite gorge, cliffs and bluffs are in evidence throughout the project area. The most salient cliffs were indicated as features of landmark value.

There are so few buildings in the area, that nearly every shoreline cultural feature is of landmark value. Along the railroad are located two small communities, Ayer and Riparia. They are the residences of the railroad maintenance and service personnel.

Several recreation areas are found along the shoreline and are in various stages of development. Usually they consist of a surfaced launching ramp, a float and comfort facilities.

All fixed aids to navigation were field checked and photo identified except Tucannon River Light 34, which was located by traverse methods, due to its location on the north slope of a cliff.

All landmarks were investigated. All landmarks, recommended for charting, have been listed on form 567.

Purple ink was used to indicate corrections on the discrepancy prints. Red tempera ink was used for the annotations on the field edit photographs. Green ink was used to indicate deletions.

Rocks and shoals were investigated. The elevations of the tops of these features were determined in the field.

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All entries for aids to navigation and landmarks for charts have been hand lettered in ink on Form 567. The smooth copies of the Form 567 can be prepared and submitted to the appropriate sections after the positions of the aids and landmarks have been finalized by the compilation section.

Geographic Names are the subject of a separate report.

A small craft chart facility investigation was completed in the field, concurrent with the field edit. Entries were made on the discrepancy prints.

Sheet TP-00019

Lower Monumental Dam and surfaced ramp are found on this sheet.

Sheet TP-00020

All fixed aids to navigation were investigated and photo-identified. A secondary, dirt road of landmark value is found near the east edge of the sheet.

Sheet TP-00021

A landmark for charts in the form of a tank is found on this sheet, also the railroad community of Ayer.

Sheet TP-00022

Heights of rocks and shoreline corrections were made on this sheet.

Sheet TP-00023

No field edit entries.

Sheet TP-00024

The highway bridge over the Snake River near the mouth of the Palouse River has been completed. It is a fixed span structure. The cofferdam that was constructed around the Marmes Rockshelter failed to save the rockshelter due to uncontrolled seepage. At present a pond is formed in the rockshelter area behind the cofferdam. Two overhead cable crossings and a submerged pipeline crossing are found on this sheet.

.Sheet TP-00025

The railroad community of Riparia is found on this sheet. The Project Engineer, Seattle District, Corps of Engineers reported the abandoned piers of the old Riparia railroad bridge were removed to the depths (elevations) that appear on photograph 69E 2302. The masonry bridge abutments are scheduled to remain in place. A landmark in the form of an elevated water tank is found at Riparia.

Sheet TP-00026

At Powers a grain elevator and storage tank was compiled as tanks only.

Sheet TP-00027

Corrections of the area adjacent to the Little Goose Dam including the northsection (earth fill portion) of the dam, road relocation and an overhead power line should be applied to the manuscript from recent photography that reflects the above changes.

Respectfully Submitted,

Robert B. Melby

Chief, Field Party, PMC

Review Report TP-00026 PH-6804 June 1970

61. General Statement

See summary in Preface.

62. Comparison with Registered Topographic Surveys

None

63. Comparison with Maps of Other Agencies

Comparison was made with 1:62,500 scale quadrangles, HAAS, Washington, dated 1950 and Starbuck, Washington, dated 1948. These maps were used to compare planimetric features adjacent to the river, as a base for a geographic names verification and to assure correlation between the compiled 600 ft. contour, (the first index contour above the shoreline), and the G. S. topography. Comparison was also made with Corps of Engineers Reservoir Maps compiled in 1957. These maps were used to locate the approximate position of lights for subsequent photoidentification.

64. Comparison with Contemporary Hydrographic Surveys

None - this is a newly formed pool area of the Snake River.

65. Comparison with Nautical Charts

None

66. Adequacy of Results and Future Surveys

This survey complied with project instructions and excellent results were realized in maintaining the required vertical accuracy for the compiled contours and spot elevations to be used as hydrography. The survey meets the National Standards of Accuracy.

67. Geographic Names

A thorough geographic names verification was made by the 1968 field inspection party and approved by the Geographic Names Branch. A names list is included in this report.

Reviewed by,

Seter P Battley Ir

Approved by,

Chief, Photogrammetric Branch App Chief, Photogrammetry Division

DESCRIPTIVE REPORT CONTROL RECORD

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

COMPUTED BY MAP T- P-00026 S.P. STATION BM Z341 (USE)1961 I. Saperstein PROJECT NO. DATE 8/30/68 SOURCE OF COMR PH-6804 (INDEX) NA 1927 DATUM SCALE OF MAP CHECKED BYH. P. Eichert 2,607,595.43 438,005,36 SCALE FACTOR DATE 8/31/68 FORWARD N.A. 1927 - DATUM
DISTANCE FROM GRID OR PROJECTION LINE
IN METERS (1 Ft. = 3048006 meter) (BACK)

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

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charted on tablesad from) I recommend that the following objects which have there an the charts indicated. inspected from seaward to determine their value as landmarks be 1

The positions given have been checked after listing å

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COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

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B. Melb

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Mashington

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The positions given have been checked after listing by Riggers

. . ** LIVE 2 CHARTING M-GUIRE MEGUIRE MCGUIRE RNG RR L+ Mashington GUIRE RNG FRT L+ 43 L+ 41 DESCRIPTION 1968.93 19C8 89 1968.95 16.8761 46 . .: ·; . 34 34 34 X CHITUDE * 1020.1 782. E-9057 152 POSITION 811 18 113 118 Ç.# ., ., COMMITTUDE . 0,2 0 9.EFF 150 619 671.7 A.P. Walters 1770 2 810,0 696 2 .P DATUM 1927 : ٠_ : N. B. TP 000 27 LOCATION AND AND AND AND AND AND apyed 1: D Į Melbu **HOGYLON** 3/25/70 **:** . : = RARBOR CHART OFFENDER CHART of Parts CHANTS Zr. . . į . . .

landmar SELECT CAN SCHOOLS BLYDNING considered for the charts of the area and not by individual field survey sheets. This orm shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-53, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. And nonfloating aids to navigation, if redetermined, shall be reported on the form. Revisions shall show both the old and new positions. lofor kion under each column heading should be given. Positions of charted SO-WINDSID The data bould be

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U.S. DEPARTMENT OF COMMERCE COAST AND GRODETIC SURVEY

NONFLOATING	

LANDMARKS	
FOR	
CHART:	

TO BE CHARTED TO BE REVISED 0-82-9CLETED STRIKE OUT TWO

charted on fibrited from) the charts indicated. recommend that the following objects which have there inspected from seaward to determine their value as landmarks be

The positions given have been checked after listing by

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landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. RULL SECONDS AND NEUTRIN pred for the charts of the area and not by individual field survey sheets. prmetion under each column heading should be given. Positions of charted The data should be

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