Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Chart Topography PH-6804 Office No. TP-00021
LOCALITY
State Washington
General locality Snake River
Locality Lower Monumental Pool
1968-70
CHIEF OF PARTY
Richard H. Houlder
LIBRARY & ARCHIVES
DATE

USCOMM-DC 5087

-1-

ESSA FORM 76-360 U.S. DEPARTMENT OF ENVIRONMENTAL SCIENCE SERV	ICES ADMIN.	TYPE OF SURVEY		
COAST AND GEODE	ITC SURVEY	▼ ORIGINAL	SUBVEY T	P00021_
DESCRIPTIVE REPORT - DATA RECOR	D	X ORIGINAL	JUNET 1	-
		REVISED-	JOB PI	н - <u>6804 —</u>
PHOTOGRAMMETRIC OFFICE		FOR REVISED	SURVEY USE	ONLY
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Rockville, Maryland		ORIGINAL		н
		SURVEY DATA:	DATES:	TO 19
Richard H. Houlder				
I. INSTRUCTIONS DATED		r ·- · · · · · · · · · · · · · · · · · ·		
1, OFFICE		2.	FIELD	
from Marine Chart Division April 3, 196 Aerotriangulation Jan. 8, 1969 Office July 17, 196		Field Field Supplem	ent I	5, 1968 1, 1968
II. DATUMS				
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1:10,000				
III. HISTORY OF OFFICE OPERATIONS				
OPERATIONS		NAME		DATE
1. AEROTRIANGULATION	BY	I. I. Saperste	<u>in</u>	Aug. 1969
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l –	OTTED BY	P. J. Dempsey J. C. Richte		Sept. 1969
		J. C. Richter		Sept. 1969
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INSTRUMENT: B-8 CO	NTOURS BY	J. C. Richter		Sept. 1969
scale: 1:10,000 cr	ECKED BY			
4. MANUSCRIPT DELINEATION PLAN	IMETRY BY	R. A. Youngbloo		Sept. 1969
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5. OFFICE INSPECTION PRIOR TO FIELD EDIT	вү	J.P. Battley		JE10.1970
6. APPLICATION OF FIELD EDIT DATA	BY IEČKED BY	J. P. Battley		June 1970
7. COMPILATION SECTION REVIEW	ВҮ	J. P. Battley		Sept. 1969
8. FINAL REVIEW	ВҮ	J. P. Battley		June 1970
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	ВҮ	J.P. Battley		Aug 1970
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	5.6. Blankenboke	سره	Sep 7. 1970

ESSA FORM 76-36b

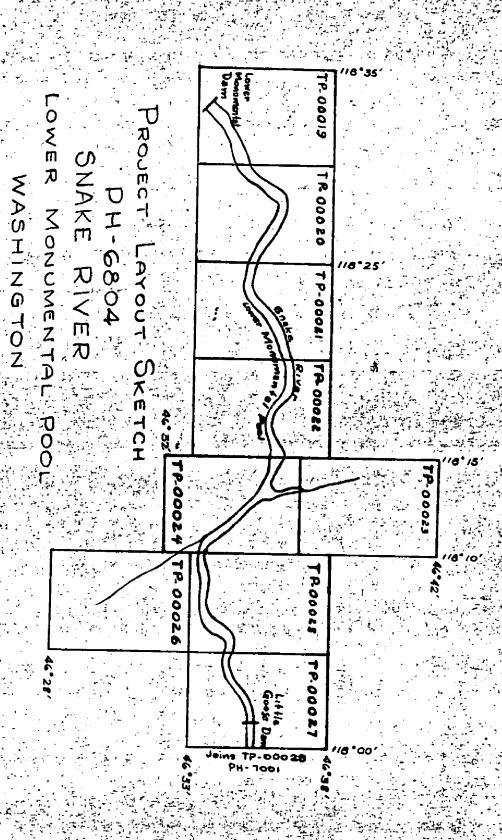
U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

COMPILATION SOURCES

1. COMPILATION PH	OTOGRAPHY		***************************************					
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3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:								
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4. CONTEMPORARY	HYDROGRAPHIC	C SURVEYS (List of	only those s	urveys th	at are sources fo	r photogram	metric survey it	nformation.)
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IV. SURVEY	REVISION (This section shall	be completed when a revised st	urvey is registered.)	
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FIRST	TP - (2) PH -		
REVISION	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT		
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SECOND	TP - (3) PH-		
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THIRD	TP - (4) PH-		
REVISION	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT		
ESSA FORM 76	3-36D			USCOMM-DC 46200-P7



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, (663-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 centrol 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.

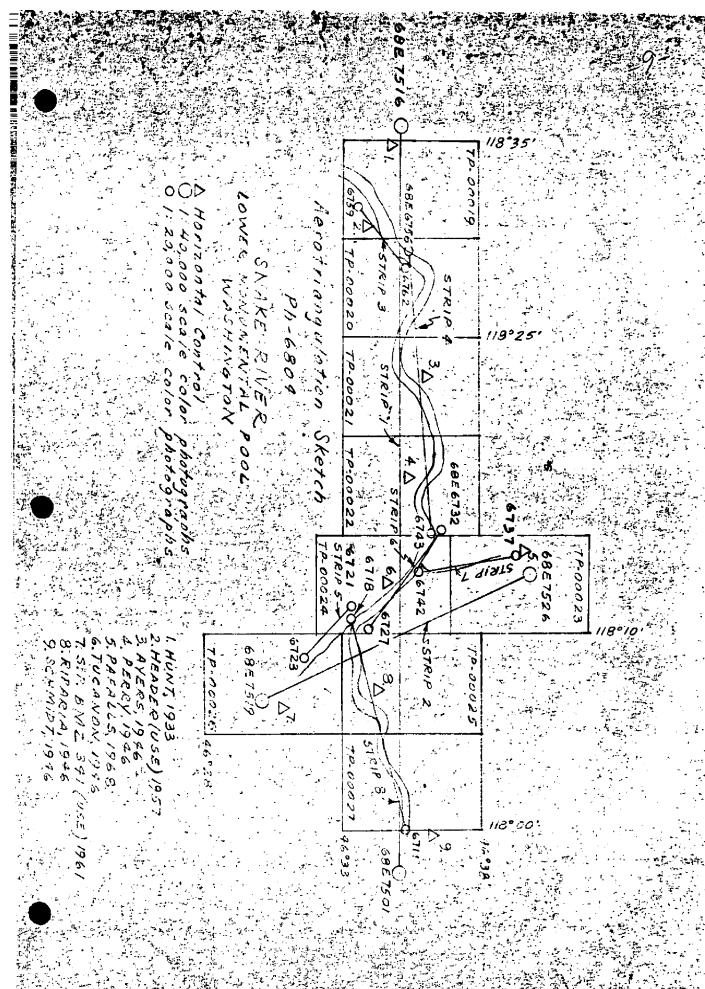
Respectfully submitted,

I. I. Saperstein

Approved and forwarded,

Chief, Aerotriangulation

Section



COMPILATION REPORT TP-00021

Refer to Descriptive Report No. TP-00019 for Field Inspection and Photogrammetric Plot Report. these reports are included JB 8/4/70 31. Delineation

TP-00021 is a 1:10,000 scale chart compilation manuscript.

Color photography, scale 1:20,000 taken July 1, 1968, was bridged and used for delineation. This photography was supplemented with 1:20,000 scale color 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.

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 was of good quality and contours within the required accuracy († 2 feet) were obtained.

Contours were drawn at prescribed intervals from the old river shoreline (440 ft.) 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 Details

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

A U. S. Coast Guard Civil Engineering blueprint was 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 to be located by field edit.

38. Control for Future Surveys

None

39. Junctions

Junctions were made with TP-00020 to the west and TP-00022 to the east and are in agreement.

40. Horizontal and Vertical Accuracy

Refer to Paragraph No. 23 of Photogrammetric Plot Report, also Paragraph No. 32 of this report.

41. thru 45.

Inapplicable

46. Comparison with Existing Maps

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

Compilation instructions state that all detail and the 600 and 700 ft. contours that have been changed above the 540 ft. pool level should tie into the existing quadrangles. Areas of change were compiled and this tie made. Comparison was made with C. of. E. Drawings, 1:6000 scale, dated Feb 1963.

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 24,1970

Prepared by

Cartographic Technician

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6804 (Washington) TP-00021

Northern Pacific Railroad * Skookum Canyon Union Pacific Railroad-

Approved by:

A. J. Wraight Chief Geographer

* Not Compiled

14

FIELD EDIT REPORT Chart Topography Lower Monumental Pool Snake River, Washington Hap 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.

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-00021 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. Bauley In

Approved by,

Chief, Photogrammetric Branch

Chief, Photogrammetry Division





DESCRIPTIVE REPORT CONTROL RECORD

MAP T- P-00021 PROJECT NO.	T NO. PH-6804	SCA	SCALE OF MAP 1:10,000 SC/	SCALE FACTOR
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U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

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o TABLE 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. for the charts of the area and not by individual field survey sheets. It ntion under each column beading should be given. Positions of charted The data should be:

COAST AND GRODETIC SURVEY U.S. DEPARTMENT OF COMMERCE

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U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

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

FAR. TANK CHARTING BTATE The positions given have been checked after listing by lank steel clevated references to the SAO' MSL H = 25(235) * DESCRIPTION hormal Ht= 56(122) 1 NAME 46 347 46 351 - 6 *XOUTITAL O. PLASSING 737.0 POSITION ≋ | | | | 05.5 LONGITUDE + 6180 60,0 Z. 1927 DATUM = R.B. Melby TP-00021 LOCATION AND BURVEY TP-00025 Yound with 3/31/70 3/3/ And the Party of t **FOCATION** PATR 70 MARROE CHARL Chief of Party. AFFECTED ly de

consid This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-35, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79, ESCONDS AND METERS and nonfloating alds to navigation, if redetermined, shall be reported on for the charts of the area and not by individual field aurvey sheets. Info ration under each column beading should be given. form. Revisions shall show both the old and new positions. Positions of The data charted uld be

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