

00019

00019

<p>Form 504 U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY</p> <h2 style="text-align: center;">DESCRIPTIVE REPORT</h2>	
<p>Type of Survey <u>Chart Topography</u></p>	
<p>Field No. <u>PH-6804</u> Office No. <u>TP-00019</u></p>	
<p>LOCALITY</p>	
<p>State <u>Washington</u></p>	
<p>General locality <u>Snake River</u></p>	
<p>Locality <u>Lower Monumental Pool</u></p>	
<p><u>19.6g-70</u></p>	
<p>CHIEF OF PARTY</p>	
<p>Richard H. Houlder</p>	
<p>LIBRARY & ARCHIVES</p>	
<p>DATE _____</p>	

ESSA FORM 76-36a (2-70)		U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMIN. COAST AND GEODETIC SURVEY		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISED		SURVEY TP - <u>00019</u> JOB PH - <u>6804</u>	
DESCRIPTIVE REPORT - DATA RECORD				PHOTOGRAMMETRIC OFFICE <u>Rockville, Maryland</u>			
OFFICER-IN-CHARGE <u>Richard H. Houlder</u>				FOR REVISED SURVEY USE ONLY ORIGINAL SURVEY DATA:			
JOB PH - _____ DATES: 19____ TO 19____							
I. INSTRUCTIONS DATED							
1. OFFICE <u>from Marine Chart Division</u> <u>April 3, 1968</u> <u>Aerotriangulation Jan. 8, 1969</u> <u>Office July 17, 1969</u>				2. FIELD <u>Field June 25, 1968</u> <u>Field Supplement I</u> <u>Aug. 21, 1968</u>			
II. DATUMS							
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN				OTHER (Specify)			
2. VERTICAL: <input type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input checked="" type="checkbox"/> MEAN SEA LEVEL				OTHER (Specify) <u>Normal Pool Level 540 ft. MSL</u>			
3. MAP PROJECTION <u>Mercator</u>				4. GRID(S) STATE ZONE <u>Washington South</u>			
5. SCALE <u>1:10,000</u>				STATE ZONE			
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS		NAME		DATE			
1. AEROTRIANGULATION BY		<u>I. I. Saperstein</u>		<u>Aug. 1969</u>			
METHOD: LANDMARKS AND AIDS BY							
2. CONTROL AND BRIDGE POINTS PLOTTED BY		<u>P. J. Dempsey</u>		<u>Aug. 1969</u>			
METHOD: <u>Coradi</u> CHECKED BY							
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY		<u>J. C. Richter</u>		<u>Aug. 1969</u>			
COMPILATION CHECKED BY							
INSTRUMENT: <u>B-8</u> CONTOURS BY		<u>J. C. Richter</u>		<u>Aug. 1969</u>			
SCALE: <u>1:10,000</u> CHECKED BY							
4. MANUSCRIPT DELINEATION PLANIMETRY BY		<u>R. A. Youngblood</u>		<u>Aug. 1969</u>			
METHOD: <u>Inked</u> CHECKED BY							
SCALE: <u>1:10,000</u> HYDRO SUPPORT DATA BY							
CHECKED BY							
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		<u>J. P. Battley</u>		<u>Feb 1970</u>			
6. APPLICATION OF FIELD EDIT DATA BY		<u>M. C. Webber</u>		<u>June 1970</u>			
CHECKED BY							
7. COMPILATION SECTION REVIEW BY		<u>J. P. Battley</u>		<u>Sept. 1969</u>			
8. FINAL REVIEW BY		<u>J. P. Battley</u>		<u>June 1970</u>			
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		<u>J. P. Battley</u>		<u>Aug 1970</u>			
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		<u>S. G. Blankenbaker</u>		<u>Sept. 1970</u>			
11. MAP REGISTERED - COASTAL SURVEY SECTION BY							

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) "E" 6" focal length		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR <input checked="" type="checkbox"/> (P) PANCHROMATIC (I) INFRARED		ZONE <input type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT	
MERIDIAN					
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
COLOR 68-E-6759 6760 6761	7-1-68	14:53	1:20,000	Inapplicable	
1:10,000 ratio 69-E-2248 2249 2250	9-8-69	11:43	1:20,000	"	

REMARKS

2. SOURCE OF MEAN HIGH-WATER LINE:

Normal pool level 540 ft. MSL located by office interpretation from color photography dated July 1, 1968, and September 8, 1969.

VERIFIED - FIELD EDIT, MAR.-APRIL 1970

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED
NONE					

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
No contem. survey	TP-00020	No contem. survey	No contem. survey

REMARKS

HISTORY OF FIELD OPERATIONS TP-00019

I. FIELD INSPECTION OPERATION FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. B. Melby	March-April 1970
2. HORIZONTAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY		
3. VERTICAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY		
4. LANDMARKS AND AIDS TO NAVIGATION RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	L. L. Riggers	" "
5. GEOGRAPHIC NAMES INVESTIGATION TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE BY <input type="checkbox"/> SPECIFIC NAMES ONLY <input type="checkbox"/> NO INVESTIGATION		
6. PHOTO INSPECTION CLARIFICATION OF DETAILS BY	L. L. Riggers	" "
7. BOUNDARIES AND LIMITS SURVEYED OR IDENTIFIED BY		

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED <input checked="" type="checkbox"/>		2. VERTICAL CONTROL IDENTIFIED <input checked="" type="checkbox"/>	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)
69-E-2249

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED
L. L. Riggers

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
69-E-2249	PAUL LT. 4		

5. GEOGRAPHIC NAMES: REPORT NONE

6. BOUNDARY AND LIMITS: REPORT NONE

7. SUPPLEMENTAL MAPS AND PLANS

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Shoreline, planimetry bathymetric contours and land contours.	Sept. 1969	Advance Copy	April 1970	
Field Edit Corrections	June 1970		July 1970	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
4 pgs.	CL-886	7-21-70	

2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____
 3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. BRIDGING PHOTOGRAPHS; DUPLICATE BRIDGING REPORT; COMPUTER READOUTS.
 2. CONTROL STATION IDENTIFICATION CARDS; FORM C&GS 567 SUBMITTED BY FIELD PARTIES.
 3. SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, ESSA FORM 76-36C.
 ACCOUNT FOR EXCEPTIONS:
 4. DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: Sept. 1970

IV. SURVEY REVISION (This section shall be completed when a revised survey is registered.)

FIRST REVISION	SURVEY NUMBER	JOB NUMBER	REMARKS
	TP - (2)	PH -	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
SECOND REVISION	SURVEY NUMBER	JOB NUMBER	REMARKS
	TP - (3)	PH -	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD REVISION	SURVEY NUMBER	JOB NUMBER	REMARKS
	TP - (4)	PH -	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

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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 bathymetry, 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.

-2-

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.

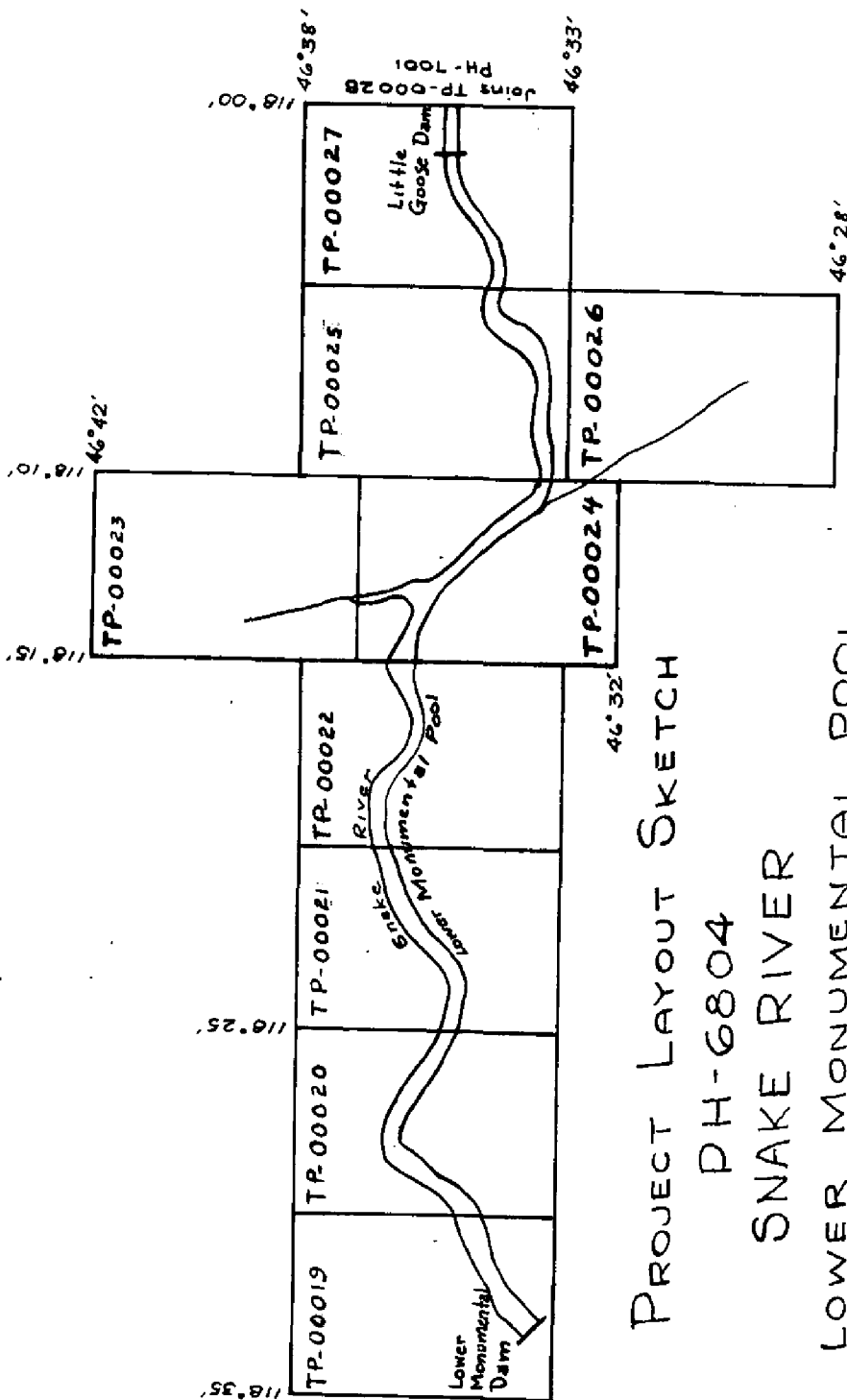
The application of field edit revisions and additions was completed in June 1970 for the entire project. Final review was also completed in June.

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,

Jeter P. Battley Jr.
J. P. Battley, Jr.



PROJECT LAYOUT SKETCH
 PH-6804
 SNAKE RIVER
 LOWER MONUMENTAL POOL
 WASHINGTON

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.

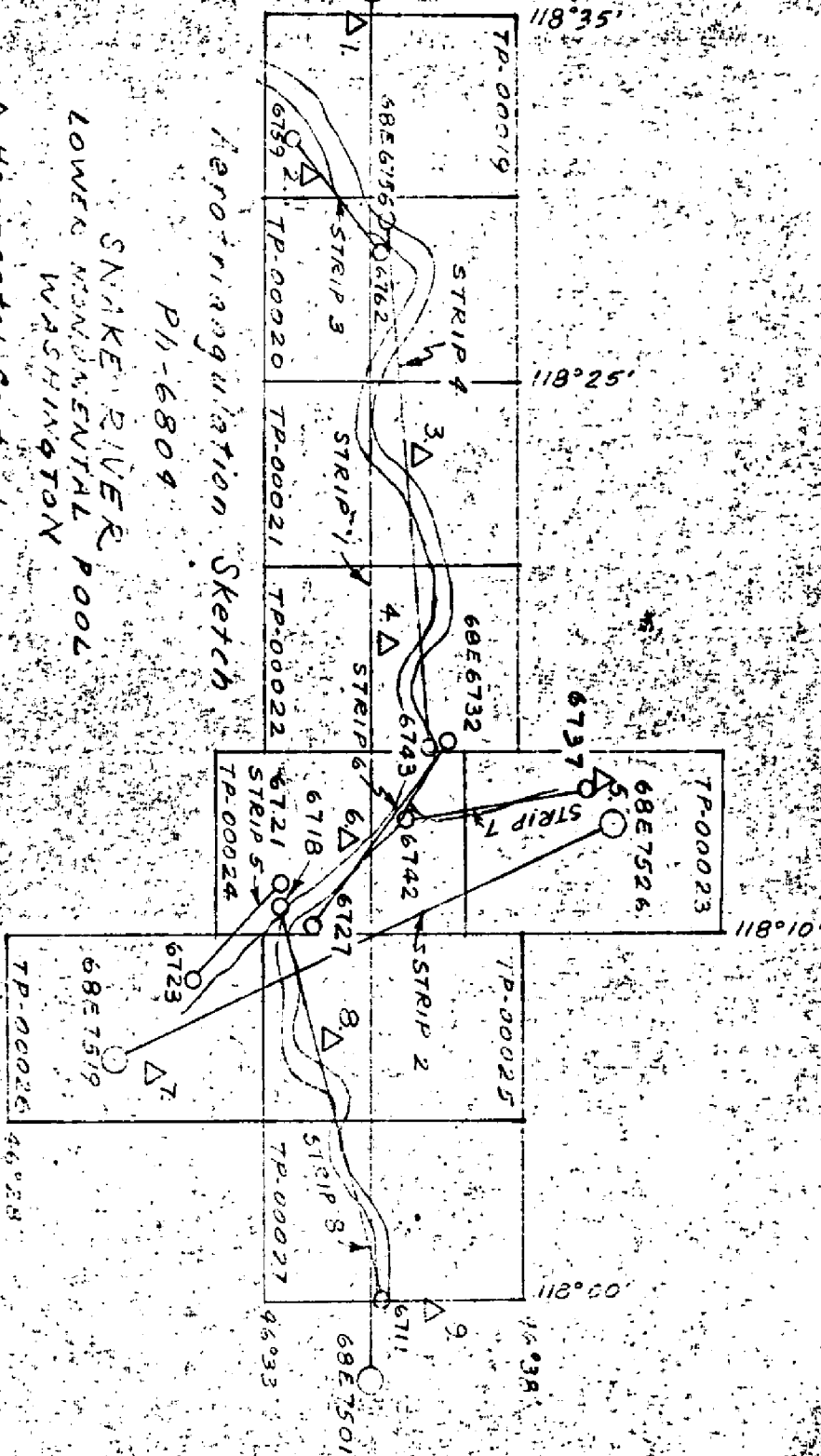
Respectfully submitted,
I. I. Saperstein
I. I. Saperstein

Approved and forwarded,
Henry J. Fisher
Chief, Aerotriangulation
Section

Snake River Lower Monumental Pool Washington

Aeromangulation Sketch
PH-6809

Horizontal Control
1:40,000 scale color photographs
1:20,000 scale color photographs



- 1. HUNT, 1933
- 2. HEADER (USE) 1957
- 3. AYERS, 1946
- 4. PERRY, 1946
- 5. PEARL, 1948
- 6. JUGANOV, 1958
- 7. S. F. B. M. Z. 391 (USE) 1961
- 8. RIPARIA, 1946
- 9. SCHMIDT, 1946

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COMPILATION REPORT
TP-00019

31. Delineation

TP-00019 is a 1:10,000 scale compilation manuscript.

Worksheets were compiled on the B-8 stereoplotter at a scale of 1:10,000.

1:20,000 color photography taken July 1, 1968, was bridged and used in the instrument. This photography was supplemented with 1:20,000 scale color photography taken in Sept. 1969 after the Lower Monumental Pool area was flooded. 1:10,000 ratio prints of the 1969 photography were compared with the compiled worksheets and/or revisions were made. A cronaflex copy and ozalid copies were ordered for these manuscripts for field edit use. After field edit is applied 1/2 reductions will be made for 1:20,000 scale chart use.

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 as hydrography (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.
See item 37 and 46 of this report

34. Contours and Drainage

1:20,000 scale color photography 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 very good quality and contours within the required accuracy (± 2 ft.), were obtained.

34. Contours and Drainage (continued)

Contours were drawn at prescribed intervals from the old river shoreline (440 ft.) to 540 ft. The intervals were: 3 ft. from 540 ft. shoreline to the 534 ft. contour (6' depth curve) 6 ft. from 534 ft. to 510 ft. (30 ft. depth curve) and 10 ft. intervals from there to 440 ft. (100' depth).

In areas of congestion the 534 ft. and 522 ft. line (6' and 18' depth curve) were given preference and contoured without feathering. The 540 ft. elevation was then contoured as the shoreline at normal pool level.

35. Shoreline and Alongshore Details

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

36. Offshore Details

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

Junction was made to the East with TP-00020 and is in agreement. Junction was made with project 20,000-830 to the west.

40. Horizontal and Vertical Accuracy

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

41. thru 45.

Inapplicable

46. Comparison with Existing Maps

Comparison has been made with Corps of Engineers Engineering Drawings titled Lower Monumental Lock and Dam Reservoir Map dated Feb. 1963. Sheet SN-1-40/13, scale 1:6,000. This sheet was reduced to 1:10,000 scale so that details could be compared. *See item 63 of the Review Report for a listing of quadrangles compared.* 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 contours on the existing quads. Areas of change were recompiled and this tie made.

47. Comparison with Nautical Charts

Comparison has been made with Chart 6131 Snake River, Washington, Panel 4 worksheet 2 scale 1:10,000 used for Chart 682-SC Part 7 of 17 BP-64174.

Items to be applied to Nautical Charts immediately.

This is a new chart compilation for Chart No. 683-SC.

Respectfully submitted,

J. C. Richter

J. C. Richter
Cartographer

Approved and forwarded,

K. N. Maki

K. N. Maki
Chief, Compilation Section

June 24, 1970

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6804 Washington
TP-00019

- Devils Canyon ✓
- Fairington *
- Lower Monumental Dam ✓
- Mathews ✓
- Northern Pacific Railroad ✓
- Spokane, Portland and Seattle Railroad ✓
- Union Pacific Railroad ✓
- Windust *

Approved by:

A. J. Wraight
A. J. Wraight
Chief Geographer

Prepared by:

Frank W. Pickett
Frank W. Pickett
Cartographic Technician

* Names fall south of sheet limits.

FIELD EDIT REPORT
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.

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.

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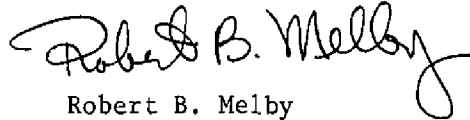
Sheet TP-00026

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

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Review Report
TP-00019
PH-6804
June 1970

61. General Statement

See summary in Preface.

TP-00019 is the westernmost survey of this project and includes the Lower Monumental Dam. Project 20,000-830 which junctions to the west (Ice Harbor Pool area) was compiled prior to the completion of the Lower Monumental Dam. The additions and shoreline changes occurring after the completion of the Dam were compiled on this survey and a corrected junction between the projects was made. The new railroad has not been compiled on Project 20,000-830. A matching junction for this feature was not made. The new railroad was shown on the latest edition of 682-SC, having been added by the Revision Surveys Section of Photogrammetry.

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 project.

Reviewed by,

Peter P. Bartley Jr

Approved by,

Franko G. ...
Chief, Photogrammetric Branch ^{A&B}

R. H. Houlster
Chief, Photogrammetry Division

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- P-00019 PROJECT NO. PH-6804 SCALE OF MAP 1:10,000 SCALE FACTOR _____

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	X COORDINATE Y COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) FORWARD (BACK)
HUNT, 1933	Pg. 222	NA 1927	2,480,161.51 459,682.12	
HEADER (USE), 1957	Use Position	"	2,495,253.32 453,094.35	

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NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Seattle, Washington

7 April 1970

TO BE CHARTED
~~TO BE REVISED~~
~~TO BE DELETED~~ } STRIKE OUT TWO

I recommend that the following objects which have ~~been~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.
The positions given have been checked after listing by Lyle L. Riggers

R. B. Melby

Chief of Party

STATE	CHARTING NAME	DESCRIPTION	LIGHT SYMBOL LISTED NO.	POSITION		DATUM	METHOD OF LOCATION SURVEY No.	DATE OF LOCATION	HARBOR CHART	NEARBY CHART	OTHER CHART	CHARTS AFFECTED					
				LATITUDE D. M. MINUTES	LONGITUDE D. M. MINUTES												
Washington				46	34	752.7	118	04	071.7	N.A.	Air Photo	3/25/70					
	McGUIRE RNG RR Lt		1968 91	46	34	782.7	118	04	619.	"	"	"					
	McGUIRE RNG FRT Lt		1968 89	46	34	1020.7	118	04	143.6	"	"	"					
	McGUIRE Lt 41		1968 93	46	34	1506.5	118	02	270.	"	"	"					
	McGUIRE Lt 43		1968 95	46	34	1506.5	118	02	270.	"	"	"					

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-33, 2-39, 5-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

USCGM-DC 1033a-P&I

NONFLOATING ~~BEES OR~~ LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE REVISED~~
~~TO BE DELETED~~ } STRIKE OUT TWO

I recommend that the following objects which have ~~been~~ been inspected from seaward to determine their value as landmarks be
chartred on ~~deleted from~~ the charts indicated.
The positions given have been checked after listing by Lyle L. Riggers RB Melby
Seattle Washington 7 April 1970
Chief of Party

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION				DENUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	NEARBY CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE	LONGITUDE	DENUM	DENUM							
Washington	TANK	Ht = 25 (235) *		46 58.0	127 10	118	214	1927	N.A.	3/5/70				
	TANK (SLM)	Tank steel elevated Ht = 56 (122) *		46 54.7	126 50	118	055	"	"	3/5/70				
		* referenced to the normal pool level (SAG' MSL)												

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. Positions of charted landmarks and navigating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Seattle, Washington 7 April 1970

TO BE CHARTED
~~TO BE DELETED~~ STRIKE OUT TWO

I recommend that the following objects which have ~~previously~~ been inspected from seaward to determine their value as landmarks be charted on ~~future~~ ~~charts~~ the charts indicated.
The positions given have been checked after listing by Lyle Riggers

R.B. Melby

Chief of Party

STATE	CHARTING NAME	DESCRIPTION	LIGHT SYMBOL AND NO.	POSITION		DATUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED			
				LATITUDE °	LONGITUDE °										
Washington	PAUL Lt 4		1968.29	46 34	367.5	118 30	N. A.	1927	Air Photo	TP 00019	3/26/70				
	RUXTBY BEND Lt 6		1968.33	46 34	1244.0	118 29	"	"	"	TP 00020	3/26/70				
	CRUMBLE Lt 7		1968.35	46 35	307.5	118 29	"	"	"	"	"				
	HONKER Lt 9		1968.39	46 35	1602.0	118 28	"	"	"	"	"				
	STAT Lt 10		1968.41	46 35	1400.0	118 27	"	"	"	"	"				
	MALLARD Lt 11		1968.43	46 36	1230.0	118 27	"	"	"	"	"				
	VEER Lt 13		1968.45	46 35	260.0	118 25	"	"	"	"	"				
	RAVINE Lt 14		1968.47	46 34	1471.0	118 24	"	"	"	TP 00021	"				
	AYER Lt 16		1968.49	46 34	1219.0	118 23	"	"	"	"	"				
	AYER Lt 17		1968.51	46 35	73.0	118 23	"	"	"	"	"				
	COURT Lt 18		1968.53	46 34	1354.5	118 22	"	"	"	"	"				
	PALOUSE BLUFF Lt 19		1968.55	46 35	1452.5	118 22	"	"	"	"	"				
	CHEW Lt 20		1968.57	46 36	225.7	118 19	"	"	"	TP 00022	"				
	DAVIN Lt 21		1968.59	46 36	978.5	118 18	"	"	"	"	"				

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(CL-886) I

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

23

TO BE CHARTED
TO BE REVISED
TO BE DELETED

STRIKE OUT TWO

Seattle, Washington

7 April 1970

I recommend that the following objects which have ~~been~~ been inspected from seaward to determine their value as landmarks be charted on ~~charts from~~ the charts indicated.
The positions given have been checked after listing by Lyle L. Riggers

R. B. Melby

Chief of Party

STATE	CHARTING NAME	DESCRIPTION	LIGHT SYMBOL NAME	LIGHT NO.	POSITION		DATUM	METHOD OF LOCATION SURVEY NO.	DATE OF LOCATION	HARBOR CHART	RESHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
					LATITUDE	LONGITUDE							
Washington													
	PERRY Lt 22				46 35	1731.5	118 17	1086.0	N.A.	TP00022			
	PERRY Lt 24				46 35	8700	118 16	933.5	"	"			
	JOHN Lt 25				46 35	1585.0	118 16	43.0	"	"			
	STEAMBOAT BEND Lt 27				46 36	218.7	118 14	1062.7	"	TP00024			
	STEAMBOAT BEND Lt 28				46 35	1052.8	118 14	796.5	"	"			
	PALOUSE RIVER Lt 29				46 35	178.8	118 12	344.4	"	"			
	TUCANNON Lt 30				46 34	626.4	118 11	861.0	"	"			
	TUCANNON RIVER Lt 32				46 35	970.8	118 10	864.8	"	"			
	TUCANNON RIVER Lt 34				46 35	1548.0	118 09	54.617	"	Triang.			
	HUNTERS Lt 35				46 33	478.0	118 09	1163.5	"	TP00025 Air Photo			
	TEXAS Lt 37				46 33	1137.5	118 06	942.5	"	"			
	TEXAS Lt 38				46 33	814.0	118 06	640.5	"	"			
	ALKALI FLAT CREEK Lt 39				46 34	985.0	118 05	1047.0	"	"			
	RIPARIA Lt 40				46 34	786.0	118 05	418.0	"	"			

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