

00020

00020

| | |
|---|--|
| <p>Form 504</p> <p>U. S. DEPARTMENT OF COMMERCE</p> <p>COAST AND GEODETIC SURVEY</p> <p>DESCRIPTIVE REPORT</p> | |
| <p>Type of Survey <u>Chart Topography</u></p> | |
| <p>Field No. <u>PH-6804</u> Office No. <u>TP-00020</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>1968-70</u></p> | |
| <p>CHIEF OF PARTY</p> | |
| <p><u>Richard H. Houlder</u></p> | |
| <p>LIBRARY & ARCHIVES</p> | |
| <p>DATE _____</p> | |

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY

ORIGINAL

SURVEY TP - 00020

REVISED

JOB PH - 6804

PHOTOGRAMMETRIC OFFICE

Rockville, Maryland

OFFICER-IN-CHARGE

Richard H. Houlder

FOR REVISED SURVEY USE ONLY

ORIGINAL SURVEY DATA:

JOB PH - _____

DATES:

19____ TO 19____

I. INSTRUCTIONS DATED

1. OFFICE

from Marine Chart Division
April 3, 1968
Aerotriangulation Jan. 8, 1969
Office July 17, 1969

2. FIELD

Field June 25, 1968
Field Supplement I
Aug. 21, 1968

II. DATUMS

1. HORIZONTAL:

1927 NORTH AMERICAN

OTHER (Specify)

2. VERTICAL:

MEAN HIGH-WATER
 MEAN LOW-WATER
 MEAN LOWER LOW-WATER
 MEAN SEA LEVEL

OTHER (Specify)

Normal Pool Level 540 ft. MSL

3. MAP PROJECTION

Mercator

4. GRID(S)

STATE

Washington

ZONE

South

5. SCALE

1:10,000

STATE

ZONE

III. HISTORY OF OFFICE OPERATIONS

| OPERATIONS | NAME | DATE |
|---|--------------------|------------|
| 1. AEROTRIANGULATION BY METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY | I. I. Saperstein | Aug. 1969 |
| 2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: <u>Coradi</u> CHECKED BY | P. J. Dempsey | Aug. 1969 |
| 3. STEREOSCOPIIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY | J. C. Richter | Sept. 1969 |
| INSTRUMENT: <u>B-8</u> CONTOURS BY | J. C. Richter | Sept. 1969 |
| SCALE: <u>1:10,000</u> CHECKED BY | | |
| 4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY | R. A. Youngblood | Sept. 1969 |
| METHOD: <u>Inked</u> CONTOURS BY | R. A. Youngblood | Sept. 1969 |
| SCALE: <u>1:10,000</u> HYDRO SUPPORT DATA BY CHECKED BY | | |
| 5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY | J. P. Battley | Mar. 1970 |
| 6. APPLICATION OF FIELD EDIT DATA BY | M. C. Webber | June 1970 |
| CHECKED BY | J. P. Battley | June 1970 |
| 7. COMPILATION SECTION REVIEW BY | J. P. Battley | Sept. 1969 |
| 8. FINAL REVIEW BY | J. P. Battley | June 1970 |
| 9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY | J. P. Battley | Aug. 1970 |
| 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY | S. G. Blankenbaker | Sept. 1970 |
| 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 | | (C) COLOR <input checked="" type="checkbox"/> | (P) PANCHROMATIC | ZONE | |
| <input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY | | | | <input type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT | |
| | | (I) INFRARED | MERIDIAN | | |

| NUMBER AND TYPE | DATE | TIME | SCALE | STAGE OF TIDE |
|--|--------|-------|----------|---------------|
| 68-E-6762 68-E-6752 thru 6755 | 7-1-68 | 14:45 | 1:20,000 | Inapplicable |
| 1:10,000 ratios 69-E-2251 thru 2254 | 9-8-69 | 11:44 | 1:10,000 | |

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 Sept. 8, 1969.

VERIFIED - FIELD EDIT, MARCH-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 |
|---------------|---------|------------------|---------------|---------|------------------|
| | | | | | |

5. FINAL JUNCTIONS

| NORTH | EAST | SOUTH | WEST |
|-------------------|----------|-------------------|----------|
| No contem. survey | TP-00021 | No contem. survey | TP-00019 |

REMARKS

HISTORY OF FIELD OPERATIONS

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 | | 2. VERTICAL CONTROL IDENTIFIED | |
|----------------------------------|--------------|--------------------------------|---------------------|
| PHOTO NUMBER | STATION NAME | PHOTO NUMBER | STATION DESIGNATION |
| | | | |

3. PHOTO NUMBERS (Clarification of details)
69-E-2276

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

L. L. Riggers

| PHOTO NUMBER | OBJECT NAME | PHOTO NUMBER | OBJECT NAME |
|--------------|-----------------|--------------|-------------|
| 69-E-2251 | RUXBY BEND LT 6 | | |
| 69-E-2251 | CRUMBLE LT 7 | | |
| 69-E-2252 | HONKER LT 9 | | |
| 69-E-2252 | STAT LT 10 | | |
| 69-E-2252 | MALLARD LT 11 | | |
| 69-E-2276 | VEER LT 13 | | |

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)

Geographic Names submitted in 1968

- 4 -

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 Man. Forwarded to | April 1970 | |
| Field Edit Applied | June 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 page | 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: _____

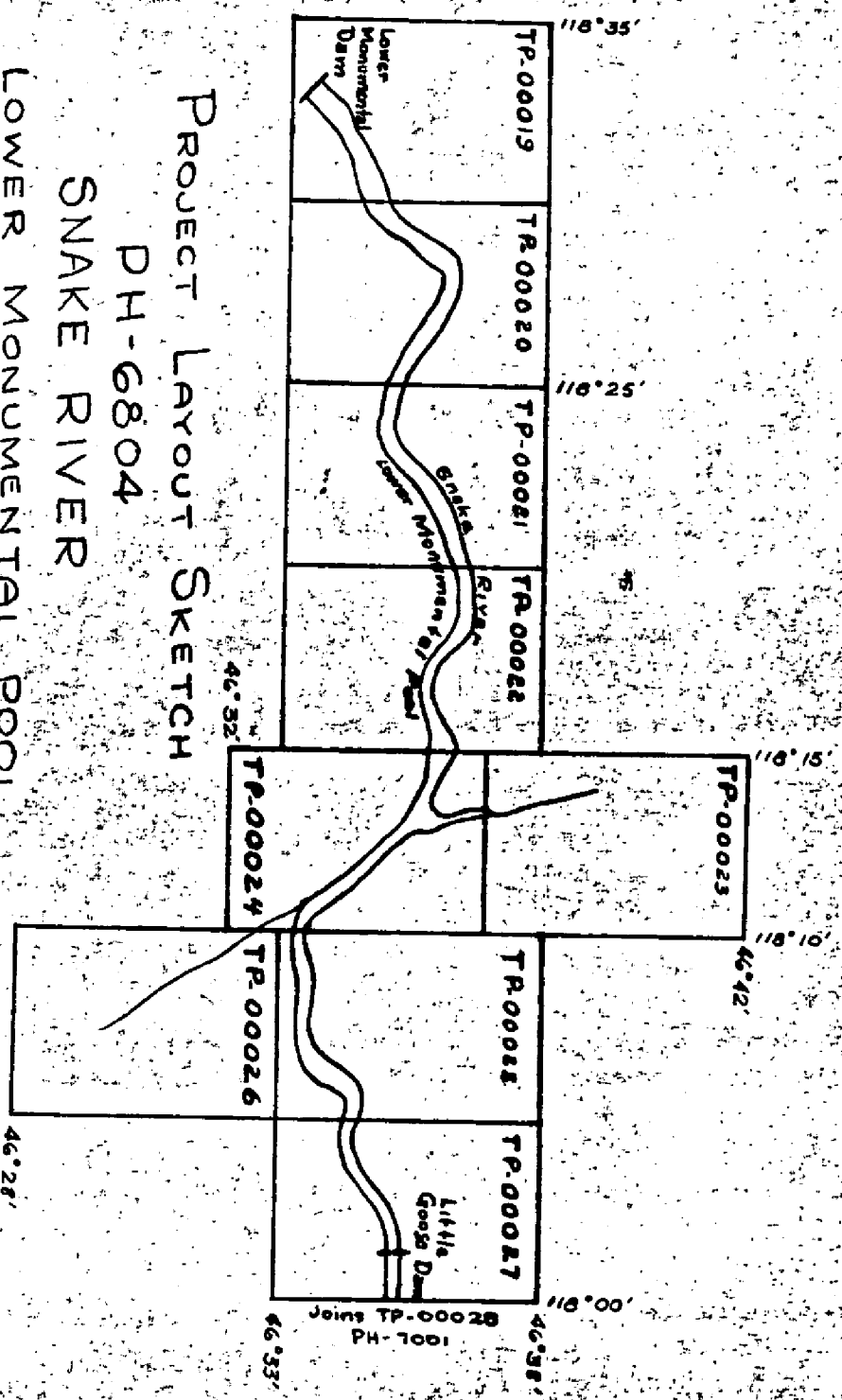
III. FEDERAL RECORDS CENTER DATA

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 | |

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



6

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.

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.

-8-

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

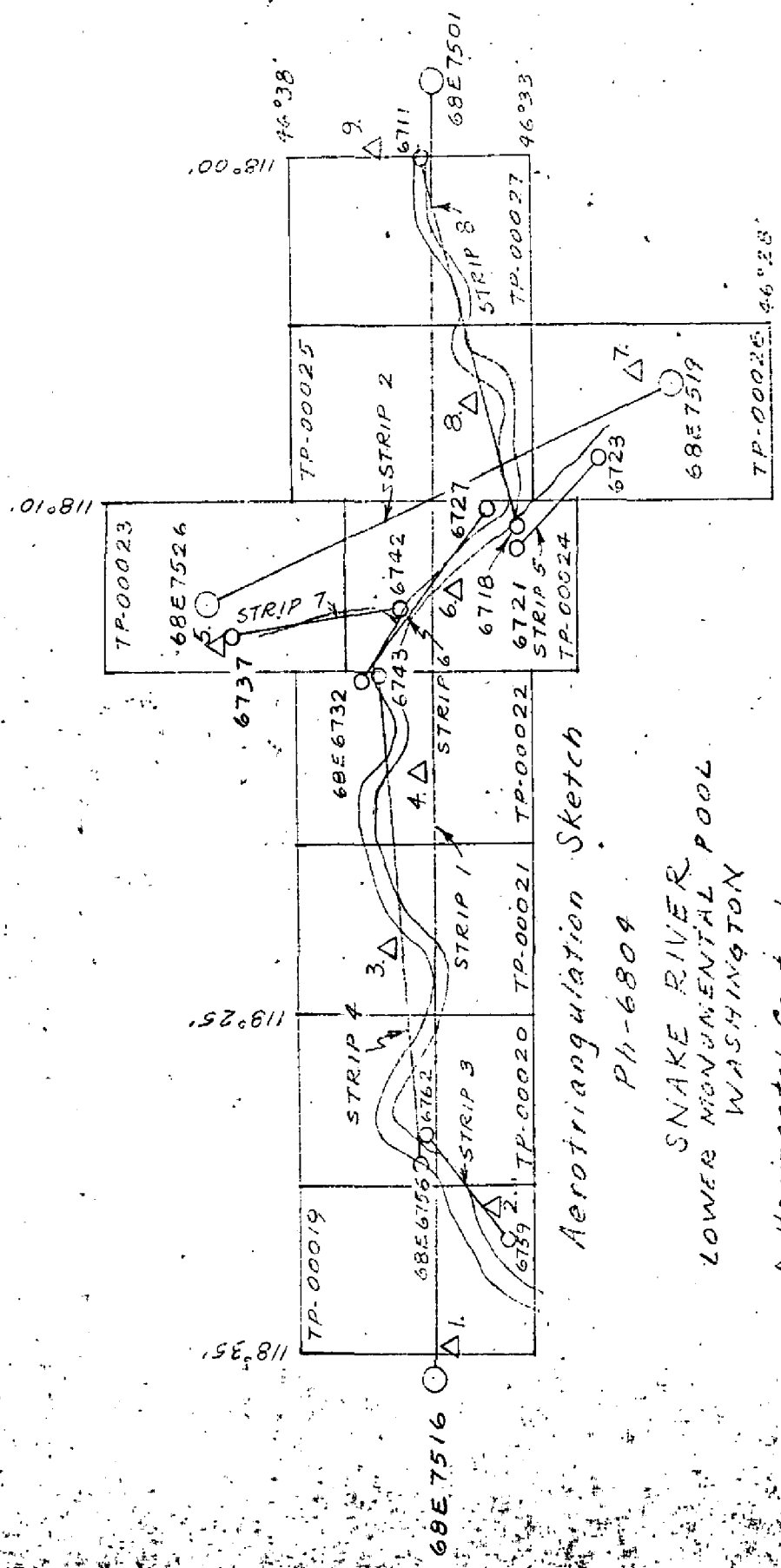
The definition and quality of the RC-8 "E" photography were good. No difficulty was encountered in the bridging of any strip.

Respectfully submitted,

I. I. Saperstein
I. I. Saperstein

Approved and forwarded,

Henry E. ...
Chief, Aerotriangulation
Section



Aerotriangulation Sketch
 PH-6809
 SNAKE RIVER
 LOWER MONUMENTAL POOL
 WASHINGTON

△ 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. PAFALLS, 1968
- 6. TUCANDON, 1946
- 7. S.P. BMAZ, 341 (USE) 1961
- 8. RIPARIA, 1946
- 9. SCHMIDT, 1946

-10-

COMPILATION REPORT
TP-00020

~~Refer to Descriptive Report No. TP-00019 for Field Inspection and Photogrammetric Reports.~~ *reports included in this sacket J.B. 8/4/70*

31. Delineation

TP-00020 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.

See item 37 & 46 of this report

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 ft.) were obtained.

34. Contours and Drainage (continued)

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-00019 to the west and TP-00021 to the east and are in agreement.

12

-3-

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 USGS Quadrangle HAAS,
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 quadrangles. Areas of change were compiled
and this tie made. *Comparison was also 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

John C. Richter
Cartographer

Approved and forwarded,

K. N. Maki

K. N. Maki
Chief, Compilation Section

June 24, 1970^{-13'}

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6804 (Washington)

TP-00020

Magallon ✓

Monumental Rock ✓

Northern Pacific Railroad *

Skookum Canyon ✓

Union Pacific Railroad ✓

Approved by:

A. J. Wraight

A. J. Wraight
Chief Geographer

Prepared by:

Frank W. Pickett

Frank W. Pickett
Cartographic Technician

* Not Compiled

-14-

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.

- 15 -

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.

-16-

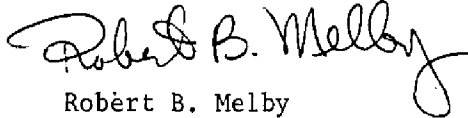
Sheet TP-00026

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

- 17 -

Review Report
TP-00020
PH-6804
June 1970

61. General Statement

TP-00020 includes the town of Magallon and features numerous bluffs of landmark value. See the summary in this report for general remarks on the project.

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,

Jeter L. Bailey Jr.

Approved by,

Charles Sherman
Chief, Photogrammetric Branch

R. H. Houlton
Chief, Photogrammetry Division

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

(CL-886) I

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

Seattle, Washington 7 April 1970

I recommend that the following objects which have ~~found~~ 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 L. Riggers

R.B. Melby

Chief of Party

| STATE | CHARTING NAME | DESCRIPTION | LIGHT CHARACTERISTICS AND NO. | POSITION | | | | DATUM | METHOD OF LOCATION AND SURVEY NO. | DATE OF LOCATION | CHARTS AFFECTED | | |
|------------|---------------------|-------------|-------------------------------|------------|-------------|------------|-------------|-------|-----------------------------------|------------------|-----------------|----------------|----------------|
| | | | | LATITUDE ° | LONGITUDE ° | LATITUDE " | LONGITUDE " | | | | BARBOUR CHART | BUCHANAN CHART | OFFSHORE CHART |
| Washington | PAUL Lt 4 | | 1968.29 | 46 34 | 361.5 | 118 30 | 75.75 | N. A. | Air Photo | 3/26/70 | | | |
| | RUXRAY BEND Lt 6 | | 1968.33 | 46 34 | 1244.0 | 118 29 | 35.0 | " | " | 3/26/70 | | | |
| | CROMBLE Lt 7 | | 1968.35 | 46 35 | 307.5 | 118 29 | 110.0 | " | " | | | | |
| | HONKER Lt 9 | | 1968.39 | 46 35 | 1609.0 | 118 28 | 76.75 | " | " | | | | |
| | STAT Lt 10 | | 1968.41 | 46 35 | 1400.0 | 118 27 | 1182.0 | " | " | | | | |
| | MALLARD Lt 11 | | 1968.43 | 46 36 | 1230.0 | 118 27 | 954.0 | " | " | | | | |
| | VEER Lt 13 | | 1968.45 | 46 35 | 260.0 | 118 25 | 12.5 | " | " | | | | |
| | RAYING Lt 14 | | 1968.47 | 46 34 | 1471.6 | 118 24 | 1080.5 | " | " | TP00021 | | | |
| | AYER Lt 16 | | 1968.49 | 46 34 | 1219.0 | 118 25 | 630.5 | " | " | | | | |
| | AYER Lt 17 | | 1968.51 | 46 35 | 73.0 | 118 25 | 580.0 | " | " | | | | |
| | COURT Lt 18 | | 1968.53 | 46 34 | 1354.5 | 118 22 | 1163.5 | " | " | | | | |
| | PALOUSE BLUFF Lt 19 | | 1968.55 | 46 35 | 1452.5 | 118 22 | 1640.0 | " | " | | | | |
| | CHEW Lt 20 | | 1968.57 | 46 36 | 225.5 | 118 19 | 1140.0 | " | " | TR00022 | | | |
| | DAVIN Lt 21 | | 1968.59 | 46 36 | 978.5 | 118 18 | 748.5 | " | " | | | | |

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Secs. 1-55, 2-39, 6-36, 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. Indentation under each column heading should be given.

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 ~~charts~~ ~~forms~~ 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 MARK NO. | POSITION | | DATUM | METHOD OF LOCATION AND SURVEY NO. | DATE OF LOCATION | CHARTS AFFECTED |
|------------|-------------------------|-------------|-----------------------|----------------|-----------------|--------|-----------------------------------|------------------|-------------------|
| | | | | LATITUDE ° ' " | LONGITUDE ° ' " | | | | |
| Washington | | | | | | | | | |
| | PERRY Lt 22 | | 1968.61 | 46 35 | 1731.5 | 118 17 | 1086.0 | N.A. | TP00022 |
| | PERRY Lt 24 | | 1968.63 | 46 35 | 8700 | 118 16 | 933.5 | " | " |
| | JOHN Lt 25 | | 1968.65 | 46 35 | 1585.0 | 118 16 | 43.0 | " | " |
| | STEAMBOAT BEND Lt 27 | | 1968.67 | 46 36 | 218.7 | 118 14 | 1062.7 | " | TP00024 |
| | STEAMBOAT BEND Lt 28 | | 1968.69 | 46 35 | 1792.8 | 118 14 | 796.5 | " | " |
| | PALOUSE RIVER Lt 29 | | 1968.71 | 46 35 | 1796.0 | 118 12 | 302.2 | " | " |
| | TUCANNON Lt 30 | | 1968.73 | 46 34 | 676.2 | 118 11 | 861.0 | " | " |
| | TUCANNON RIVER Lt 32 | | 1968.75 | 46 35 | 970.8 | 118 10 | 864.8 | " | " |
| | TUCANNON RIVER Lt 34 | | 1968.77 | 46 35 | 1548.0 | 118 09 | 54.617 | " | TP00025 |
| | HUNTERS Lt 35 | | 1968.79 | 46 35 | 478.0 | 118 09 | 1163.5 | " | Air Photo TP00025 |
| | TEXAS Lt 37 | | 1968.81 | 46 35 | 1137.5 | 118 06 | 942.5 | " | " |
| | TEXAS Lt 38 | | 1968.83 | 46 35 | 814.0 | 118 06 | 640.0 | " | " |
| | ALKALI FLAT CREEK Lt 39 | | 1968.85 | 46 34 | 985.0 | 118 05 | 1047.0 | " | " |
| | RIPARIA Lt 40 | | 1968.87 | 46 34 | 786.0 | 118 05 | 418.0 | " | " |

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 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 coordinated for 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 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

R.B. Melby

Chief of Party

| CHARTING NAME | DESCRIPTION | LISTED SYMBOL AND NO. | POSITION | | DATUM | METHOD OF LOCATION AND SURVEY | DATE OF LOCATION | HARBOR CHART | | | CHARTS AFFECTED |
|--------------------|-------------|-----------------------|--------------|--------------|-------|-------------------------------|------------------|--------------|-----|-----|-----------------|
| | | | LATITUDE | LONGITUDE | | | | NO. | NO. | NO. | |
| | | | " | " | | | | " | " | " | |
| Washington | | | | | | | | | | | |
| McGUIRE RNG BR Lt | | 1968 91 | 46 34 752.7 | 118 04 071.7 | 1927 | Air Photo | 3/25/70 | | | | |
| McGUIRE RNG FRT Lt | | 1968 89 | 46 34 782.7 | 118 04 619. | " | " | " | | | | |
| McGUIRE Lt 41 | | 1968 93 | 46 34 1020.7 | 118 04 143.6 | " | " | " | | | | |
| McGUIRE Lt 43 | | 1968 95 | 46 34 1506.5 | 118 02 1270 | " | " | " | | | | |
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USCGM-1234567

NONFLOATING ~~BEES~~ 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. Riggs

R. B. Melby

Chief of Party

| STATE | CHARTING NAME | DESCRIPTION | SIGNAL NAME | POSITION | | | | METHOD OF LOCATION AND SURVEY NO. | DATE OF LOCATION | HARBOR CHART | COAST & GEOD. CHART | CHARTS AFFECTED |
|------------|---------------|--|-------------|------------|---------------|-------------|---------------|-----------------------------------|------------------|--------------|---------------------|-----------------|
| | | | | LATITUDE ° | B. M. LETTERS | LONGITUDE ° | B. P. LETTERS | | | | | |
| Washington | TANK | Ht = 25 (235) * | | 46 55.0 | 757.0 | 118 24 | | N.A. | 1927 | TP-00021 | 3/31/70 | |
| | TANK | Tank steel elevated Ht = 56 (122) * | | 46 54.7 | 1365.0 | 118 055 | | " | " | TP-00025 | 3/31/70 | |
| | | * referenced to the normal pool level (540' MSL) | | | | | | | | | | |
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