00024

Poem 804

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Chart Topography
Field No. PH-6804 Office NoTP-00024
LOCALITY
State Washington
General locality Snake River
Locality Lower Monumental Pool
19_69-70
CHIEF OF PARTY
Richard H. Houlder
LIBRARY & ARCHIVES
DATE

USCOMM-DC 5087

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

COMPILATION SOURCES

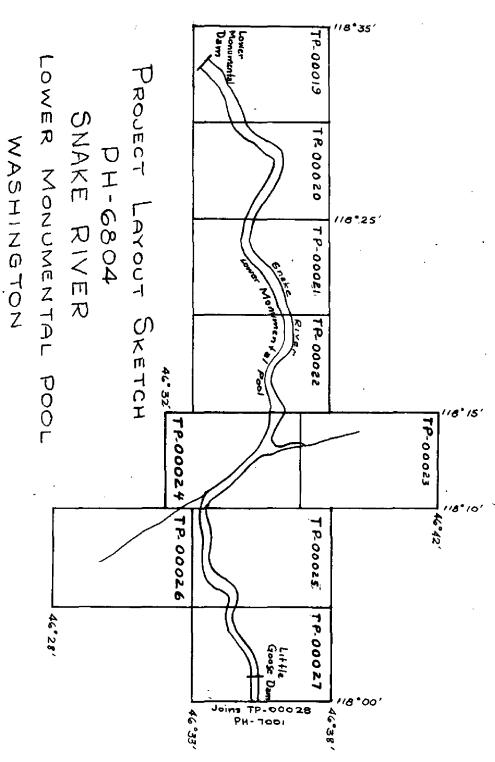
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8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submit	tted to the Geodesy D	vivision)	
ESSA FORM 76-36C		·	

ESSA FORM 76-36d

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

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I. MANUSCRIP	T COPIES					
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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 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,

I. I. Saperstein

Approved and forwarded,

Chief, Aerotriangulation

Section

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COMPILATION REPORT TP-00024

Refer to Descriptive Report No. TP 00019 for Field In spection and Photogrammetric Plot Reports, all reports are included in this Descriptive Report JB-8-1-70 31. Delineation

TP-00024 is a 1:10,000 scale chart compilation manuscript which includes the mouth of the Palouse River and the Tucannon River entering the Lower Monumental Pool.

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 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 63-of the Review Report - the C. of E. Chawings 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 ft. 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

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 are to be located during field edit.

38. Control for Future Surveys

None

39. Junctions

Junctions were made with TP-00023 to the north TP-00022 to the west and TP-00025 and TP-00026 to the east 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 quadrangles. Areas of change were compiled and this tie made. Comparison was made with C of E. Dnawings, Scale 1:6,000 dated 4eb. 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

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6804 (Washington)

Jos0 Northern Pacific Railroad * Union Pacific Railroad -Fields Gulch * LYONS FETTY TUCANNON TUCANNONRIVER

Approved by: A. V. Wraight Chief Geographer

* Freatures mot compiled

Cartographic Technician

Review Report TP-00024 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,

Approved by,

Chief, Photogrammetric Branch Branch Chief, Photogrammetry Division

ORM C&GS-164 1-88) SCOMM-DC 0318-P68

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

DESCRIPTIVE REPORT CONTROL RECORD

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U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

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Seattle, Washington

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U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

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