Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey CHART TO POGRAPHY Field No. PH-7001 Office No. TP-00033
LOCALITY
State WASHINGTON
General locality SNAKE RIVER
Locality SWIFT BAR
<u>19</u> 69-70
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(2-70) ENVIRONMENTAL SCIENCE SERVICES ADMIN COAST AND GEODETIC SURVEY	TYPE OF SURVEY	
DESCRIPTIVE REPORT - DATA RECORD	X ORIGINAL	SURVEY TP. 00033
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PHOTOGRAMMETRIC OFFICE	FOR REVISED	SURVEY USE ONLY
Washington Science Center		
Rockville, Maryland	ORIGINAL	JOB PH
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Richard H. Houlder		
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ESSA FORM 76-36B

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	OP	ERATION			NAME	DATE
1. CHIEF OF FIEL	D PARTY			R.B. Melby		11-25-69
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. HORIZONTAL C	ONTROL	ESTABL	LISHED BY			<u> </u>
		PRE-MARKED OR IDEN	TIFIED BY	R.B. Melby,	E. Pursel, Jr.	July, 19
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3. VERTICAL CON	TROL	ESTABL	ISHED BY	·		
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4. LANDMARKS AN	ID AIDS TO N	AVIGATION IDENTIFIED				
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Summary to Accompany Descriptive Reports TP-00028 through TP-00035 PH-7001 March 1971

This project consists of eight chart topography manuscripts, covering the Little Goose 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, (684-SC), scale 1:20,000.

The Little Goose Pool was formed by impounding the water behind Little Goose Dam east to Lower Granite Dam. PH-6804 (683-SC) junctions this project at the Little Goose Dam (TP-00027).

Field operations prior to bridging included the premarking of horizontal control, selecting, photo-identifying, and determining elevations of photogrammetric vertical control points, identifying and determining the elevation of features critical for charting and geographic names investigation. This was completed in November 1969.

Bridging of the entire Pool area was completed in May 1970, by the analytical aerotriangulation method. Two strips of 1:40,000 scale color photography were bridged, providing control for five strips of 1:20,000 scale color plates. Some of the pre-marked stations also appeared on the 1:20,000 scale compilation photography.

1:10,000 scale color was available to more accurately contour a few flat areas. Field vertical control points were located in some instances on this photography.

Compilation was accomplished in the Washington Office in May - June 1970. Compilation photography was the bridged 1:20,000 scale color taken August 5, 1969, prior to the flooding of the pool area. Project specifications at the start of compilation indicated a planned normal pool level for the area to be 638' above MSL, with a maximum level of 646.5'. B-8 instrument compilation soon revealed that this would result in the new railroad bed being underwater in several places. This was confirmed in consultation with the Corps of Engineers, Walla Walla District, and a revised normal pool level of 635' above MSL was established with a maximum level of 638 feet. (See

Field Edit Instructions, paragraph 6, dated July 28, 1970.) The river level for the area prior to flooding was approximately 540 feet above MSL in the vicinity of Little Goose Dam, to 610 feet in the vicinity of Lower Granite 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 requirements. Along with this bathymetry, the required chart compilation features were compiled above the 635' shoreline. This included the 700-foot contour for use by marine charts in correlating the compilation with existing maps and to indicate areas of change.

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

The application of field edit revisions and additions was completed in January 1971, for the entire project. 1:12,000 scale C of E panchromatic photography was submitted with field edit data. These photographs were taken after the pool area was filled, and were used to verify compilation and position flights. Final review was completed in March 1971.

1:20,000 scale reductions were supplied to the Marine Charts Division prior to final registration. The facilities located during field edit were coded to the Facilities Report on these copies, and the report submitted with the reductions. Areas where the originally compiled contours, (Hydrography), are suspect due to new construction were pin-pointed for Marine Charts disposition. (See the Review Reports).

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

Submitted by:

Jeter P. Battley, Jr.

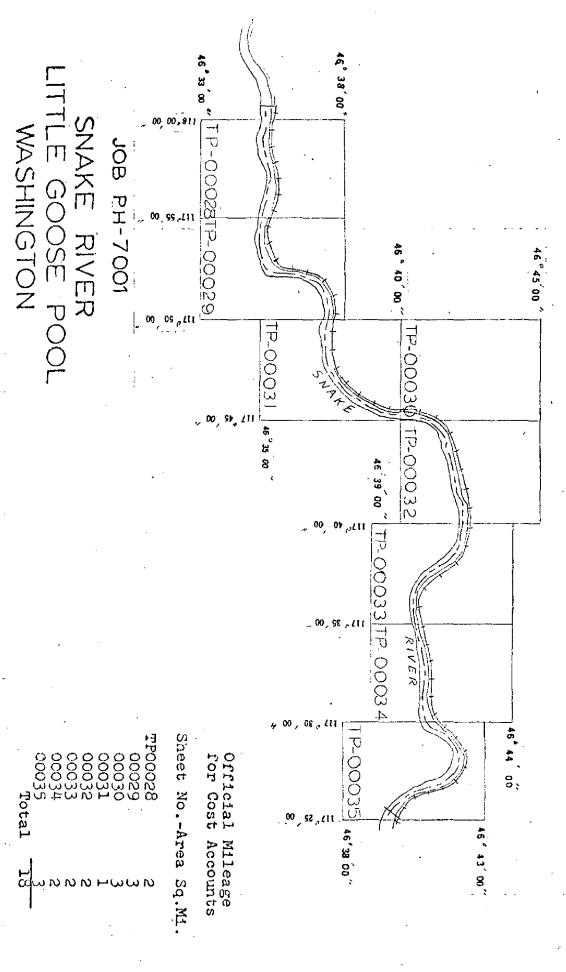


CHART TOPOGRAPHY SCALE 1:10,000

FIELD INSPECTION REPORT

Project PH-7001

Little Goose Pool, Snake River, Washington September - November 1969

2. Areal Field Inspection:

The project area is a section of the Snake River that will be impounded by the Little Goose Dam, forming a navigable pool and the lands adjacent to the pool.

The river passes through a generally steep, rocky gorge with numerous basaltic bluffs. The tops of the bluffs give way to open, rolling prairies which in a large part are cultivated, dry land grain fields.

The area is sparsely populated, except for an occasional railroad station or farmhouse.

The area is traversed by a line of the Camas Prairie Railroad, along the north shore of the river. The old Central Ferry highway bridge is being replaced by a newer and higher span.

3. Horizontal Control

Horizontal control requirements consisted or paneling of preselected triangulation stations. The panels were the conventional, white, opaque, polyethylene material, cut to conform to the specifications for the premarking of control stations. All of the stations paneled were bureau triangulation stations. At the request of several of the property owners the panels were removed after the completion of the aerial photography. All of the panels were still in place and in good condition when the field personnel revisited each station site to remove the paneling material. It was not necessary to establish any additional horizontal control.

Form 152, Control Station Identification cards were submitted for each station paneled. All of the paneled stations were in open areas and no difficulty should be encountered due to trees or shadows caused by bluffs.

4. Vertical Control

Vertical control consisted of the determination by the usual field methods of the elevations of preselected, photogrammetric, vertical control points. These points are indicated on the field photographs with the prefix "VP" and numbering system, coinciding with the last two digits of the aerial photograph number, with a sketch of the feature on the reverse side of the photographs.

Critical elevation features, such as rocks, boulders, hilltops, etc., that are found in the range of 510 to 548 feet above mean sea level in the proposed pool area were identified on the field photography and their elevations were determined by field methods. In some instances, the field elevations of suspected critical elevation features did not fall within the critical range. Nevertheless they were photo-identified and their elevations inked on the photography.

The critical elevation features were indicated on the field photography with the prefix "C.E.P.-" a sequential number, field determined elevation and a brief description.

Several supplemental elevations were determined in preselected areas that are generally flat or with a gentle gradient at or near the proposed high water line. These supplemental elevations were designated on the field photographs with the "X.V.P.-" prefix, a sequential number, a field elevation, and a sketch on the reverse side of their respective photograph.

All leveling was based on bench marks established by the Coast & Geodetic Survey, Corps of Engineers, and the U. S. Geological Survey. The elevations of all bench marks used as the basic control, has been previously established by differential, spirit leveling by the respective agencies.

Contours and Drainage

Contours only applicable to the compilation of depth curves for underwater topography, based on the field determination of preselected photogrammetric vertical control points.

7. Alongshore Features

The project instructions did not require field inspection, although four overhead power transmission line crossings have been indicated on the field photography.

13. Geographic Names

Geographic names are the subject of a separate report. As of this date (November 1969), the field investigation of geographic names had not been completed, so the report will be submitted at a later date.

14. Special Reports

The method of leveling used by the field party was the conventional trigonometric leveling with the Wild TIA theodolite and a stadia rod with a rod bubble to insure the verticality of the rod. The U.S. Geological Survey "Stadia Tables for Obtaining Differences in Elevations 9-1163" was used to compute the trigonometric differences in elevations.

In the more remote areas where the usual trigonometric leveling would be laborious and slow, the distance was determined by Electronic Distance Measuring Instruments (Electro chains) and observing reciprocal vertical angle observations between the points as well as to a nearby eccentric or auxilliary point to afford an elevation check.

The major difficulty encountered in the field was access to working grounds. There were few roads and this combined with the usual clearing of the pool area of obstructions and cultural features posed some hindrance to field operations.

Respectfully submitted,

Robert B. Melby

Chief, PMC Photo Party
11/25/69

Photogrammetric Plot Report Job PH-7001 Snake River, Little Goose Pool Washington

June 1970

21. Area Covered

This report covers the area of Little Goose Dam and Pool on the Snake River, consisting of eight (8) 1:10,000 scale sheets, TP-00028 through TP-00035.

22. Method

Seven (7) strips of photography were bridged using analytical aerotriangulation methods. Strips 1 and 2 at a scale of 1:40,000 were bridged and used to control the entire project. Strips 3, 4, 6, 8 and 9 (1:20,000 scale color photography) were bridged using control located from Strips 1 and 2. Compilation points were dropped on Strips 4A and 5 from Strips 4 and 6 to control the models both horizontally and vertically. The 1:20,000 scale photography is to be used for compilation. The attached sketch of the strips bridged shows the placement and closure 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 bridges. Some of the premarked control also appeared on the 1:20,000 scale photography. The field party furnished elevations to vertically control each strip of 1:20,000 photographs and proved adequate.

24. Photography

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

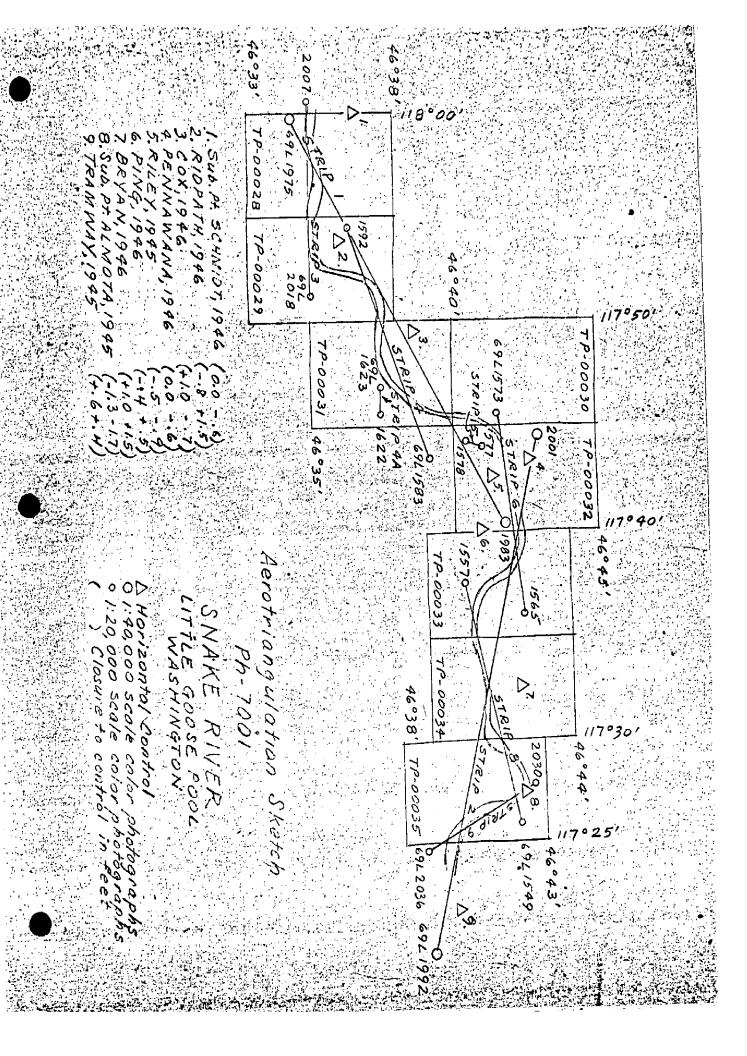
Respectfully submitted.

I. Saperstein

Approved and forwarded,

Henry P. Eichert Chief, Aerotriangulation

Section



COMPILATION REPORT TP-00033

31. Delineation

Color photography, scale 1:20,000, dated August 5 and 6, were bridged and used for delineation on the B-8 stereoplotter. The normal pool level is compiled at 635 feet MSL. A cronaflex copy and ozalid copies were ordered for this manuscript for field edit use. After field edit is applied, $\frac{1}{2}$ 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

Corps of Engineer photographs at 1:12,000 scale, flown after the pool was filled, were used for comparison. A few minor differences were noted, but the pool elevation was 637 feet at time of photography.

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. Photography taken in August 1969, before the pool area was flooded, is of good quality, and contours within the required accuracy were obtained. In some areas, construction was not completed, and some of the contours will change when construction is completed. Contours were drawn at prescribed intervals from the old river shoreline to 635 feet MSL (new shoreline).

Drainage -- no comment.

35. Shoreline and Alongshore Details

The shoreline was delineated from color photography of August

1969, and compared with Corps of Engineer 1:12,000 scale photography, after the pool was filled, and is in good agreement, except for new construction.

36. Offshore Detail

No comment

37. Landmarks and Aids

U.S. Coast Guard Civil Engineering blueprints were furnished for location of Aids to Navigation, but at the time of compilation, no aids could be located, and will be located by field edit or later photography. Landmarks to be located by field edit.

38. Control for Future Surveys

None

39. Junctions

Junction was made to the west with TP-00032, and to the east with TP-00034.

40. Horizontal and Vertical Accuracy

Refer to paragraph No. 23 of Photogrammetric Plot Report, and to paragraph No. 32 of this report.

41. through 45.

Inapplicable

46. Comparison With Existing Maps

Comparison has been made with U.S.G.S. Quadrangle, Penawawa, Washington, Edition of 1950, scale 1:62,500, contour interval 40 feet. Compilation instructions state that all detail and the 700 foot contour that have changed above the 635 foot pool level should tie into the existing quadrangle. In a few areas, the 800 foot contour has also changed. They were compiled where the changes occurred.

47. Comparison With Nautical Charts

No chart exists in this area. This is a new chart compilation for chart 684-SC.

for chart 684-SC.

48. Geographic Name List

Camas Prairie RR Long Hollow Trail Rice Bar Rice Bar Grade Snake River Swift Bar Washboard Road

Respectfully submitted:

Approved and forwarded:

Compilation Section

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-7001 (Washington)

TP-00033

Camas Prairie Railroad

Long Hollow Trail

Rice Bar

Rice Bar Grade

Snake River

Swift Bar

Washboard Road

Approved by:

A. Joseph Wraight Chief Geographer

Prepared by:

Frank W. Pickett Cartographic Technician

FIELD EDIT REPORT CHART TOPOGRAPHY LITTLE GOOSE POOL, SNAKE RIVER, WASHINGTON August-September 1970 Map Manuscripts TP-00027 through TP-00035

This report covers the portion of the Snake River impounded by the Little Goose Dam and entirely within the State of Washington.

The entire shoreline was inspected by small boat. The shoreline and alongside features were compared with the field edit copies of the map manuscripts (discrepancy prints) and/or the Corps of Engineers, field, contact photographs.

The field edit copies (discrepancy prints) of the map manuscripts were used as the index for the field corrections and cross-referenced to the field photography.

Adequacy of Compilation:

The extent and accuracy of the maps appear to be reasonably complete.

As the river passes through a definite gorge, cliffs and bluffs are in evidence throughout the project area.

There are so few buildings along the shoreline, that nearly every shoreline cultural feature is of landmark value. Two small communities are found along the north shore of the river, Central Ferry and Almota. They are the residences of railroad maintenance personnel and grain storage and barge loading facilities.

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

The entire north shore at the river is traversed by a line of Camas Prairie Railroad. At Central Ferry a state highway crosses the river and except for a few secondary roads that terminate at the river's edge, there is limited access to the river.

All fixed aids to navigation were field checked and photo identified on the Corps of Engineer photography when possible. Aids that did not appear on the photography were located by sextant/theodolite fix or from the Corps of Engineers ground survey control. Only the bases of the towers of the fixed aids were in place at the time of the photo-field edit. The lighting mechanism and batteries were installed prior to the leaving of the field area by the field edit personnel.

All aids to navigation are listed on a field copy of form 567.

All landmarks were investigated and listed on a field copy of form 567.

Purple ink was used to indicate corrections on the discrepancy prints. Green ink was used to indicate deletions.

Rocks and shoals were investigated and the elevations of the tops of these features were determined by the field editor. Certain "humps" or "mounds" were compiled and contoured. The Corps of Engineers, Walla Walla District, stated all of the stockpiles of sand/gravel, etc., were removed to the normal ground elevation. If any of these areas still remain in doubt, it is suggested the Corps of Engineers, Walla Walla District be contacted as they probably have photography and/or contoured map sections of the areas in question prior to the flooding by the dam. This special photography was used to determine the progress and the amount of clearing performed by the clearing contractors.

Information pertinent to each manuscript will be discussed under each listed manuscript number.

TP-00027

Several "humps" of crushed rocks were reported to have been moved prior to the flooding by the Corps of Engineers. The airstrip east of the Little Goose Dam is still in operation. It was reported to have been constructed for use by the Corps of Engineers and construction contractors. It is unattended as of this date. The water tank located about 700 feet south of the west end of the airstrip has been removed. A surfaced boat ramp is found in the vicinity of the airstrip.

TP-00028

Two aids to navigation were located on this sheet.

TP-00029

Shoreline changes are reflected on Corps of Engineers photograph W70-5-76, in the vicinity of Light 5, also on photograph W70-5-82 about 3000 feet east of Light 8. The railroad relocation appears on the Corps of Engineers photography. The minutes of latitude along the west edge of the sheet are 10 minutes in error.

TP-00030

A feature compiled as a tower was deleted as the structure was of a temporary nature. The railroad has been relocated and construction is complete.

TP-00031

Near the west edge of the sheet are found several rectangular features that were former stockpiles of crushed rock, gravel, etc. The Corps of Engineers reported these stockpiles were removed prior to flooding. A public facility is found on photo W70-5-90. This feature is still under construction, but the ramp boat basin and comfort facilities have been completed. A new fixed span highway bridge has been constructed over the Snake River at Central Ferry. The old bridge located parallel to and along the downstream side of the new bridge was demolished in place and the steel structure was dumped into the river between the blown piers. See reports of demolition of the bridge by Corps of Engineers and U. S. Coast Guard with attached drawings, showing the elevations of the old piers and sunken steel bridge sections.

Two new grain storage and barge loading facilities are found on this sheet. Construction of these two facilities had commenced at the date of photography. Plot plans, ground survey and photo locations can aid in the location of the two facilities. Overhead Power Line clearances are submitted in the form of Corps of Engineers permits.

TP-00032

Shoreline changes are reflected on the Corps of Engineers photography. Specific photo numbers are referenced on the discrepancy print. The railroad has been relocated and it is presently in service. A surfaced boat launching ramp is found at the mouth of Penawawa Creek. All aids to navigation were photo-identified.

TP-00033

Shoreline changes have been indicated on the Corps of Engineers photography. Aids to navigation have been photo-identified. The railroad relocation and construction have been completed.

TP-00034

The two possible shoal areas have been reported by the Corps of Engineers, Walla Walla District, to have been graded to an elevation of 617 feet. See referenced Corps of Engineers drawings on Reservoir clearing. Shoreline changes have been indicated on the Corps of Engineers photography.

TP-00035

At the west edge of the sheet, a shoal area was reported to have been graded to an elevation of 617 feet by the Corps of Engineers, Walla Walla District. See U.S. E. Reservoir clearing drawing. At Almota, a new grain storage and barge loading facility has been constructed. See

TP-00035 (Continued)

referenced photograph for location of the facility and other changes in the area. The boulder jetties protecting Boyer Marina have been constructed. The positions of Boyer Lower Range and Boyer Upper Range were determined by ground survey methods from existing Corps of Engineers horizontal control. The positions should be considered of third order accuracy or less. The airstrip is in operation, but unattended. Its use is mainly for the use of Corps of Engineers and construction personnel. At present the airstrip is scheduled to remain in operation after the completion of Lower Granite Dam and become part of an recreational complex in the area of Boyer Marina. Construction has resumed on the Lower Granite Dam and frequent shoreline and cultural changes will be evident in its vicinity.

Respectfully submitted,

Robert B. Melby

Kodert B. Melby \(\) Chief, Field Party, PMC

Review Report TP-00033 Chart Topography April 1971

61. General Statement

(See Summary in preface.) 1:12,000 scale panchromatic photography, flown after the pool area was flooded, was obtained from the Corps of Engineers, Walla Walla District. Glass plates of these photographs were set in the B-8 stereoplotter for the positioning of aids to navigation and to compile the railroad that was under construction at the time of bridging photography. This required some revision to the compilation of the 635 foot shoreline (normal pool level), and to the 700 and 800 foot contour, due to grading.

62. Comparison With Registered Topographic Surveys

None

63. Comparison With Maps of Other Agencies

Comparison was made with USGS Quadrangle, Penawawa, Washington, 1950 Edition, scale 1:62,500, contour interval 40 feet. Corps of Engineer drawings LGG 1-0-9/16 to LGG 1-0-9/29, scale 1:8333, dated 1957, contour interval 10 feet, were compared during compilation and review for accuracy of contours compiled.

64. Comparison With Contemporary Hydrographer Surveys

None

65. Comparison With Nautical Charts

None

66. Adequacy of Results and Future Surveys

This map complies with the project instructions, and will provide an excellent base for new chart 684-SC.

The map complies with the National Standards of Accuracy.

Reviewed by:

Approved by:

Charles Theurer

Chief, Photogrammetric Branch

Jack E Guth Chief Photogrammetry Division

жм **C&GS-164** 68) соми-ве пе-рев

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

DESCRIPTIVE REPORT CONTROL RECORD SNAKE RIVER - LITTLE GOOSF POOL WASHINGT

South Zone

SCALE FACTOR _ 1:10,000 SCALE OF MAP_ PROJECT NO. PH-7001 MAP T-

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BRYAN, 1946	Pg 224	1927	516,107.52	
l .	PC s	NA	2,710,722.92	
PING, 1946	Pg. 224	1927	503,788.50	
		NA	2,783,651.30	
TRAMMAY, 1945	Pg 225	1927	500,160.17	
		NA	2,760,290.49	
ALMOTA, 1945	Pg. 225	1927	514,006.72	
		NA	2,760,350.10	
Sub. Pt. ALMOTA, 1945	Comp	1927	513,948.68	
		NA	2,697,743.28	
RILEY, 1945	Pg 226	1927	.504,851.72	
		NA	2,628,288.07	
SCHWIDT, 1946	Pg 226	1927	476,617.77	
		NA	2,628,223.28	
Sub Pt SCHMIDT 1946	Comp	1927	476,538,99	-
5	,	NA	2,697,371.96	
PENNAWAWA, 1946	Pg 226	1927	513,745.31	
		NA	2,654,958.47	
RIDPATH, 1946	Pg 226	1927	475,475.41	
		NA	2,671,405.97	•
cox, 1946	Pg 226	1927	488,348.82	
		NA	2,618,340.11	
CANYON, 1946	Pg 227	1927	432,014.05	
COMPUTED BY I.I.S.	DATE 2/20/70		CHECKED BY	DATE 2/24/70

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

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TO BE CHARTED 1908E)05040160 STRIKE OUT TWO

> Seattle, Washington

charted I recommend that the following objects which have (deleted from) the charts indicated. (have not) been inspected from seaward to determine their value as landmarks ጷ

Robert

I

Melby

The positions given have been checked after listing ý Lyle L. Riggers

CHARTING STATE <u> Little Goose Reservoir Light</u> Tittle Goose Little Goose Little Goose <u> Little Goose Reservoir Light</u> Little Goose <u> Little Goose</u> <u>Little Goose Reservoir Light</u> Little Goose Reservoir Light <u>Little Goose</u> <u> Little Goose Reservoir Light 26</u> <u>Little</u> <u>Little</u> <u>little Goose</u> Washington _Goose_Reservoir_Light_25 Goose DESCRIPTION Reservoir Light Reservoir Light Reservoir Light Reservoir Light Reservoir Light Reservoir Light Reservoir Light Reservoir Light 27 28 5 12 N W 123 20 77 K 37 [1969 1969 1969 1969 1969 1969 1969 1969 1969 1969 1969 1969 1969 969 NAME 43 49 ψ5 39 5 55 53 3 0 8 51 14 59 5 ρ. Έ. 94 91 F 0 19 94 94 94 4 5 9 94 9 ٥ .04 0.8 40 5 |± 5 40.3 1-1 43.3 41 Ŋ ţ 12 42 40.6 . (20 **LATITUDE** # 5 'n ि 0 တ $^{\circ}$. Ji 5 50.5 1559.0 1108.0 1547.0 D.M. METERE 1109.0 101.6.0 1524.0 339.0 544,0 2,3 72.0 832,0 623.0 20.20 439.0 0.7 4.64 17.6 88.0 88.0 35.9 ٥ POSITION 7.5 117 7 117 닏 님 17 77 17 0 40.5 72 1.01 33.9 35 9 39.2 12.6 36.0 37.4 38.9 40.4 LONGITUDE * 1100.0 653.0 316.0 52.1 1107.0 39<u>6.0</u> 139.0 306.0 670.0 752.0 0.08 26. 20.6 F N.A. N.A. N.A. 1927 1927 1927 1927 1927 N.A. N.A. 1927 M.A. N.A.1981 787 N. A. 1927 \mathbb{N} . A. 1927 N. A. \mathbb{N} . A 1927 1927 DATUM 1927 1887 THOTO TP-00033 PHOTO TP-00033 PHOTO. TP-00034 TP-00032 \$P-00032 Ţ₽-0003! TP-0003 - 00032 25000-41 P-00032 BURYEY No. FP-0003 IP-0003 [P-0003] P-0003 OLOHA COHTAN PHOTO OLOHA PHOTO PHOTO PHOTO PHOTO PHOTO 8-13-70 8-14-70 8-14-70 LOCATION 8-13-70 8-13-70 8-13-70 8-13-70 8-14-70 8-14-7C 8-14-70 8-14-70 8-14-70 <u>8-13-70</u> DATE HARROR CHART INSHORE CHART OFFSHORE CHART of Party 684 489 489 489 489 426 486 684 489 489 489 489 489 684 AFFECTED CHARTS SC SC SC SC SC SC SC SC SC SC SC SC SC SC

gation, if of the ar This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. edetermined, shall be reported on this form. nd not by individual field survey sheets. Information under each Revisions shall show the old and new positions. The data should be considered lumn heading should be Positions of charted landmarks and nonfloating given. for the 3 spie