NOAA FORM 76-35 (3-76)

Map No. TP-00827 Job No. CM-7408 Map Classification FINAL Field Edited Map Type of Survey Chart Topography LOCALITY State Washington General Locality: Snake River Lower Granite Dam and Reservoir Locality: Wawawai	DESCRIPTIVI	AN SURVEY
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*U.S. GOVERNMENT PRINTING OFFICE:1976-669-248

REGISTRY IN ARCHIVES

TO 1977

1974

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NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY TP. 00827
	D ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS Final
DESCRIPTION ON THE RECORD	REVISED	0 74.0
PHOTOGRAMMETRIC OFFICE		
	TYPE OF SURVEY	JOB PH-
Coastal Mapping Djvision, Norfolk, VA	D ORIGINAL	JOB PH
OFFICER-IN-CHARGE	AESURVEY	SURVEY DATES:
Jaffman C. Canlan	REVISED	19TO 19
Jeffrey G. Carlen I. INSTRUCTIONS DATED	<u> </u>	
1. OFFICE	2.	FIELD
Aerotriangulation - September 23, 1974	June 5, 1974	4
Compilation - January 23, 1975		
II. DATUMS	<u> </u>	
8,00	OTHER (Specify)	<u> </u>
1. HORIZONTAL: X 1927 NORTH AMERICAN		
MEAN HIGH-WATER	OTHER (Specify)	
2. VERTICAL: MEAN LOW-WATER MEAN LOWER LOW-WATER		
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3. MAP PROJECTION	,	GRID(S)
	STATE	ZONE
Mercator- central parallel: 46°25'30"	Washington	South
1:10.000 at central parallel		
III. HISTORY OF OFFICE OPERATIONS		
OPERATIONS	NAME	DATE
1. AEROTRIANGULATION METHOD: Wild STK_1 LANDMARKS AND AIDS BY	M. McGinley	Jan 1975
METHOD: Wild STK-1 LANDMARKS AND AIDS BY 2. CONTROL AND BRIDGE POINTS PLOTTED BY	M. McGimley R. Robertson	<u>Jan 1975</u> Jan 1975
метнор: Саlcomp снескерву	R. Robertson	Jan 1975
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	L. O. Neterer, J	
COMPILATION CHECKED BY	J. L. Byrd	Sept 1976
tital a p 0	1	
INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:5.000 CHECKED BY	L. O. Neterer, J J. L. Byrd	
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74E(C)5732	GRANTT	E, 1945	74E(C)5759	V27-06, V27	-07
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			74E(C)5773	V27-11, B.M	.657(U.S.G.S.
			74E(C)5770	V27-13	
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5. GEOGRAPHIC NA	MES:	REPORT NONE	6. BOUNDARY AN	D LIMITS: REP	ORT [X] NONE
7. SUPPLEMENTAL	MAPS AND P	ANS			
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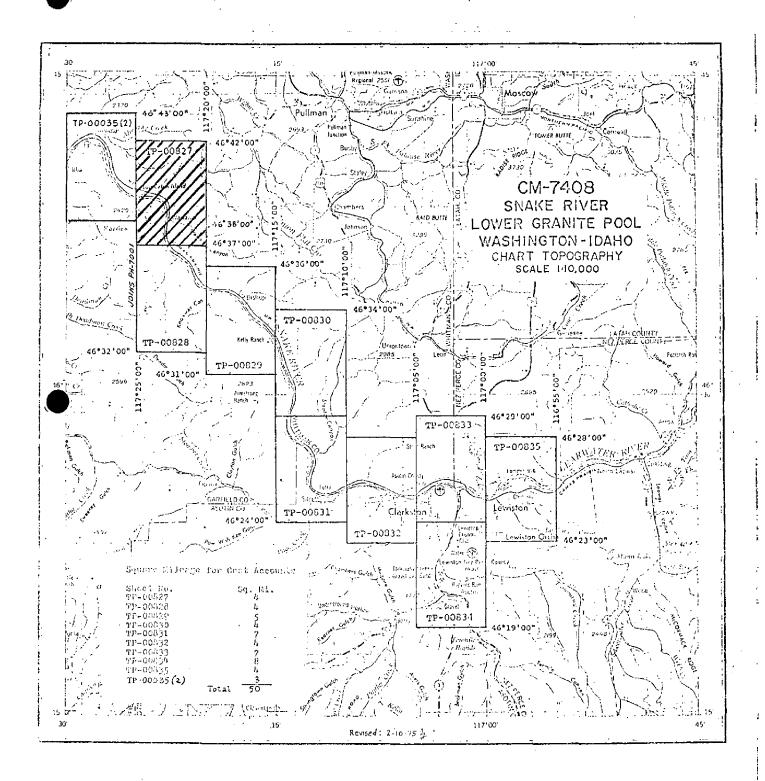
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PHOTO NUMBER		OBJECT NAME		PHOTO NUMBER		OBJECT NAM	E
W75-6-64	LOWER G	RANITE RESERVOIR LIGHT	4				
W75-6-65	LOWER G	RANITE RESERVOIR LIGHT	5				
W75-6-76	LOWER G	RANITE RESERVOIR LIGHT	6				
. GEOGRAPHIC N		X REPORT NONE		6. BOUNDARY AND	LIMITS:	REPORT	X NONE
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OTHER FIELD	RECORDS (SI	None tetch books, etc. DO NOT list data s	ubmitte	d to the Geodesy Di	vision)	 	
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1-76-40 Fo	rm (Aide	to Navigation)					

NOAA FORM 76-36D

(3-72)

U. S. DEPARTMENT OF COMMERCE TP-00827

		RECO	RD OF SURVE	Y USE		
I. MANUSC	RIPT COPIES			_ 		
	Co	MPILATION STAGE	s		DATE MANUSCRI	PT FORWARDED
	DATA COMPILED	DATE	RE	MARKS	MARINE CHARTS	HYDRO SUPPORT
_	ation complete g field edit	10/15/76	Class III	Manuscript	4/4/77	Field Edit 8/4/77
	edit applied ation complete	Nov 1977	Class I M	fanuscript	2/2/78	
Final	Review	May, 1979	Final		July , 1979	
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III. FEDE	RAL RECORDS CENTER DA	TA			<u></u>	
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IV. SURVE	Y EDITIONS (This section			p edition is registe		
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SUMMARY TO ACCOMPANY MAPS TP-00035(2) AND TP-00827 THROUGH TP-00835

This summary covers all of Project CM-7408 which consist of ten chart topography maps. They cover the area of the Lower Granite Dam Reservior from the Lower Granite Dam southeastward to the town of Lewiston, Idaho, and from there south to just below Asotin, Washington. The area of the reservoir is bounded by a steep walled basaltic canyon, except at the southern end.

Maps in this project are to serve as the basis for construction of a small craft chart of the area. The maps are all ruled on the Mercator projection system. Maps TP-00827 through TP-00835 have lat. 46°25'30" as the central parallel and Map TP-00035(2) has lat. 46°38'00" as its central parallel. As can be expected, there is a significant difference in the scales of Maps TP-00035(2) and TP-00827, which joins it. See diagram, page 5 of this Descriptive Report.

Map TP-00035 (2) was added to this project just prior to the bridging function. All bridging was done at the Washington Science Center using the STK-1.

The photographs used for compilation were flown on three separate occasions. The first was taken with color film by the National Ocean Survey in June, 1974. This was followed with two sets taken by the Corp of Engineers using black and white film in February, 1975 and April, 1975. The April photographs were flown after the reservoir was flooded.

A bridge was run only on the color photography. Control for setting models of the black and white photography was obtained by identifying points common to that photography from the B-8 models of the color photographs.

All maps were compiled at the Atlantic Marine Center using the B-8 stereoplotter and graphic methods. The B-8 stereoplotter was used to obtain all elevations and contours, as well as the bulk of the planimetric features. Some map features, recommeded for charting by the field editor, were identified on the 1975 U.S. Corps of Engineers photography. These features were applied to the map bases using graphic methods. In areas where control was sparse, the field edited map features were labeled (PA) for position approximate. Field edit was done in the Fall of 1977. All field edit items were applied to the maps at the Atlantic Marine Center.

All maps were final reviewed at the Atlantic Marine Center during the Spring of 1979. The original base maps and all applicable data was forwarded to the Washington Science Center for reproduction and final registration. FIELD INSPECTION REPORT

Project CM-7408

Map Manuscripts T-00827 through TP-00835

September - December 1974

FIELD INSPECTION REPORT

Project CM-7408

Map Manuscripts T-00827 through TP-00835

September - December 1974

General

The area contained in this report commences at the vicinity of the Lower Granite Dam, on the Snake River and upstream along the Snake River to the vicinity of the town of Asotin, and upstream along the Clearwater River, from its confluence with the Snake River to a point about 5 miles upstream.

Except in the area of the cities of Lewiston and Clarkston, the rivers flow through steep walled, basaltic canyons.

The Camas Prairie Railroad serves the area along the Snake River from the Lower Granite Dam to the city of Lewiston, Idaho, then along the south shore of the Clearwater River. There is little industry along the rivers, except in the Lewiston-Clarkston area.

Horizontal Control

- 1. Four supplemental control stations were established by the field party.
- 2. All horizontal control stations required by the Project Instructions for aero-triangulation were recovered and paneled for aerial photography. Control Station Identification Form 152 were submitted to the Rockville, Maryland, office on June 19, 1974.

Vertical Control

All bench marks necessary to establish the required photo-elevation points were recovered and NOAA Form 76-89 will be submitted for each mark searched for.

Critical Features

The pool area was inspected for critical features and possible obstructions to navigation. At the time the field party was determining the photo elevations, Corps of Engineers contractors were removing possible rocks, knobs, etc., and "dressing"slopes. Dredging and quarrying were in progress in the bottom of the Clearwater River on the downstream side of the Lewiston-North Lewiston Highway Bridge (see photo 74E 5921). Shoreline changes were in progress from Clarkston to Asotin on the Snake River, also between Clarkston and the mouth of Alpowa Creek. The Corps of Engineers, Walla Walla

District should be consulted as to the extent and profiling of the changes. Two contractors bridges, one upstream of the Lower Granite Dam and one downstream of the railroad bridge over the Clearwater River, were being removed. A highway bridge over the Snake River is under construction (see photo 74E 5877).

Leveling

The elevations of the preselected photo-elevation points were determined by trigonometric leveling, utilizing the Wild T-1 and T-2 theodolites. Where the terrain or distances involved were not conducive to trigleveling with the theodolite and stadio rod, the distances were measured with a RANGER III, Laser, distance measuring instrument. Two distances to each vertical point were observed, and non-reciprocal vertical angles were measured with a Wild T-2 theodolite, 2 D/R with a 10-second rejection limit. The distances were recorded in the field record book in meters to 3 decimal places. Pressure altitude, temperature, instrument and mirror constants were dialed into the RANGER III's system. This, in effect, is a closed loop observation, but the foresights and backsights were unbalanced. Therefore, Form 29D, Computations of Elevations for Non-Reciprocal Observations, was used; the difference in elevations of the long lines and the RANGER III distances were treated as two foresights.

The use of the RANGER III allowed the packing unit to carry only a retrodirective prism, a radio, telescoping tripod, photos, etc., as most of the photo-elevation points were on the near vertical slopes of the canyon walls, requiring back-packing up the steep slopes and bluffs to reach the preselected points. Otherwise, it would have required backpacking a tellurometer unit. The backpacking was a rigorous experience, but only the time factor in climbing slowed the field progress. The weather was favorable, the majority of the time cool and clear.

Bottom Characteristics

Bottom characteristics were indicated on the field photographs. Most of the river bottom is either rocky or boulder/stone/gravel sediments.

Photography

The photographs furnished the field unit were of good quality as to resolution and contrast.

Geographic Names

Geographic names will be the subject of a separate report.

Field Edit

Field edit will be the subject of a separate report at a later date, after the field edit has been accomplished.

Aids to Navigation

At the time the photo party was determining the photo-vertical points, employees of the Coast Guard were observed erecting the pedestals and towers for fixed aids to navigation. None of the images of the aids appear on the existing field photography.

RECOMMENDATIONS

It is recommended during the 1975 field season that the pool area be rephotographed to correct the shoreline changes and to permit the location of the aids to navigation by photogrammetric methods if so desired.

Respectfully submitted,

Robert B. Melby, CPM103

cc: CPM1



PHOTOGRAMMETRIC PLOT REPORT

Job CM-7408

Snake River

Lower Granite Pool

Washington-Idaho

January 1975

21. Area Covered

This project covers the Snake River from Lower Granite Dam to just south of Asotin, Idaho, and a portion of the Clearwater River to just east of Lewiston, Idaho. Included are ten T-sheets (TP-00827 thru TP-00835 and TP-00035). T-sheet TP-00035 was generated at the request of the Rockville Review Section.

Sheets TP-00827 thru TP-00835 were plotted with 1:10,000-scale Mercator projections - central parallel 46°25'30"N. Sheet TP-00035 was plotted with 1:10,000-scale Mercator projections-central parallel 46°38'00"N. All sheets have the Washington State Grid (south zone) intersections plotted at 5,000-foot intervals. Sheets TP-00832 thru TP-00835 also have the Idaho State Grid (west zone) intersections plotted at 5,000-foot intervals.

22. Method

A total of twenty-one strips of color photography were bridged on the Wild STK-1 in order to obtain pass-point positions and elevations to be used during compilation. Three strips of 1:30,000-scale photography (strips 1,2, and 3) were bridged in order to obtain horizontal tie point positions for use in adjusting the other eighteen strips of 1:10,000-scale photography (strips 4 thru 21).

Strip I was adjusted on five field-identified triangulation stations and sixteen vertical points with six horizontal tie points and eight vertical points as checks. Strip 2 was adjusted on four field-identified triangulation stations and ten vertical points with one additional triangulation station and eight horizontal tie points as checks. Strip 3 was adjusted on three field-identified triangulation stations and seven vertical points with seven horizontal tie points as checks. Strip 4 was adjusted on four horizontal tie points and eight field-identified vertical points with four horizontal and one vertical tie point as checks. Strip 5 was adjusted on three horizontal tie points and eight field-identified vertical points with seven horizontal and four vertical tie points as checks. Strip 6 was adjusted on . four horizontal tie points and twelve field-identified vertical points with eleven horizontal and six vertical points as checks. Strip 7 was adjusted on four horizontal tie points and hine fieldidentified vertical points with twelve horizontal and six vertical tie points as checks. Strip 8 was adjusted on five horizontal



tie points and eight field-identified vertical points with ten horizontal and five vertical tie points as checks. Strip 9 was adjusted on four horizontal tie points and ten field-identified vertical points with eleven horizontal and five vertical tie points as checks. Strip 10 was adjusted on three horizontal tie points and seven field-identified vertical points with nine horizontal and four vertical tie points as checks. Strip 11 was adjusted on five horizontal tie points and six field-identified vertical points with seven horizontal and three vertical tie points as checks. Strip 12 was adjusted on three horizontal tie points; six field-identified vertical points; and one vertical tie point with one additional field-identified vertical point; nine horizontal and five vertical tie points as checks. Strip 13 was adjusted on one field-identified triangulation station; five horizontal tie points; and nine field-identified vertical points with three additional field-identified vertical points; nine horizontal and three vertical tie points as checks. Strip 14 was adjusted on one field-identified triangulation station; three horizontal tie points; seven field-identified vertical points; and one vertical tie point with twelve horizontal and six vertical tie points as checks. Strip 15 was adjusted on seven horizontal tie points; seven field-identified vertical points; and one vertical tie point with eight horizontal and seven vertical tie points as checks. Strip 16 was adjusted on three horizontal tie points and eight field-identified vertical points with one additional field-identified triangulation station; twelve horizontal and eight vertical tie points as checks. Strip 17 was adjusted on three horizontal tie points; seven field-identified vertical points; and one vertical tie point with eight horizontal tie points; one additional field-identified vertical point; and four vertical tie points as checks. Strip 18 was adjusted on three horizontal tie points and seven field-identified vertical points with five horizontal and two vertical tie points as checks. Strip 19 was adjusted on five horizontal tie points and ten field-identified vertical points with eight horizontal tie points; one additional field-identified vertical point; and three vertical tie points as checks. Strip 20 was adjusted on three horizontal tie points and six field-identified vertical points with seven horizontal . tie points; two additional field-identified vertical points; and four vertical tie points as checks. Strip 21 was adjusted on three horizontal tie points and eight field-identified vertical points with five horizontal and two vertical tie points as checks.

All adjustments were performed on the IBM 6600. All sheets were ruled and plotted on the Calcomp.

23. Adequacy of Control

All horizontal and vertical control utilized in the adjustments held within National Map Accuracy.

24. Supplemental Data

Vertical control for bridging the three 1:30,000-scale strips only was obtained from local USGS quadrangles.

25. Photography

Photography was adequate as to overlap, definition, and coverage.

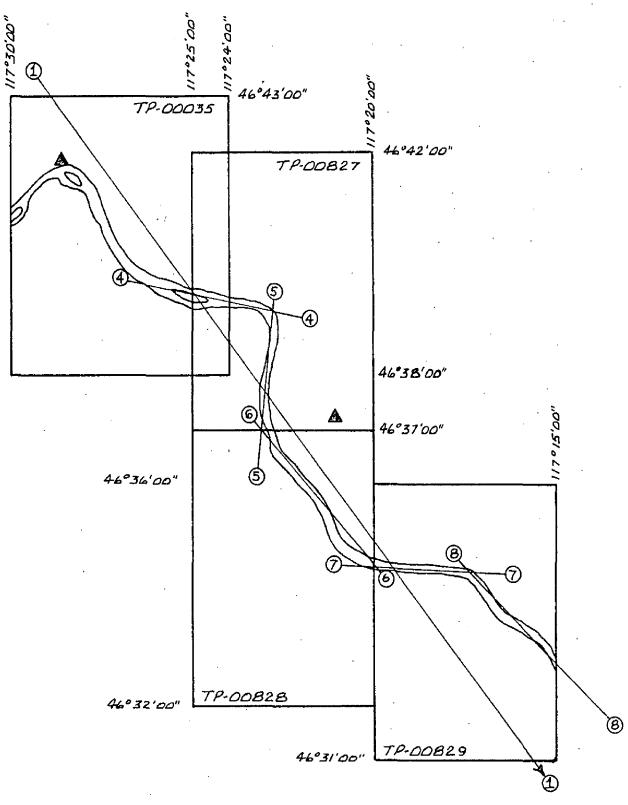
Submitted by:

Michael L. McGinlev

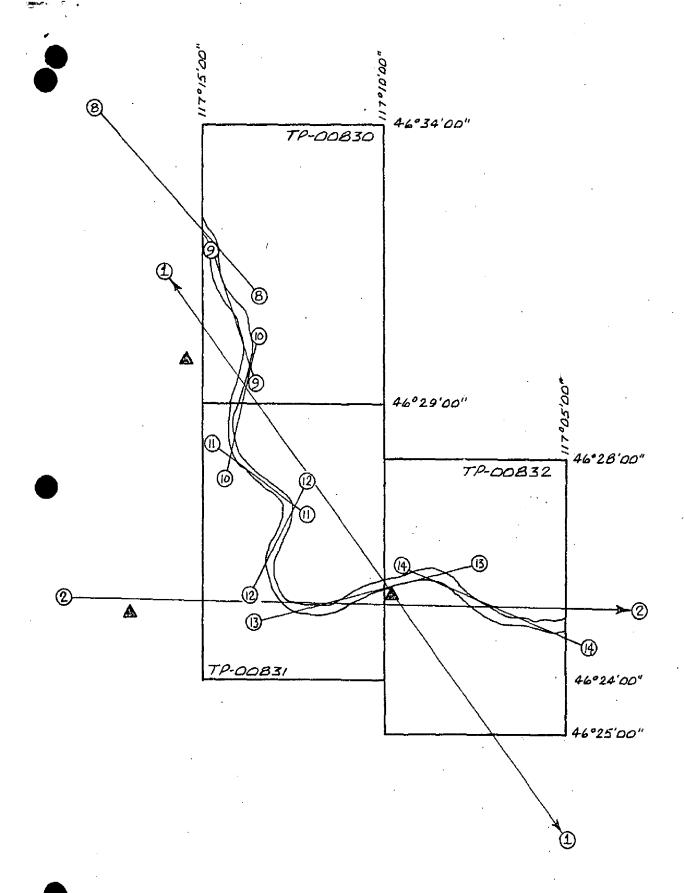
Approved by:

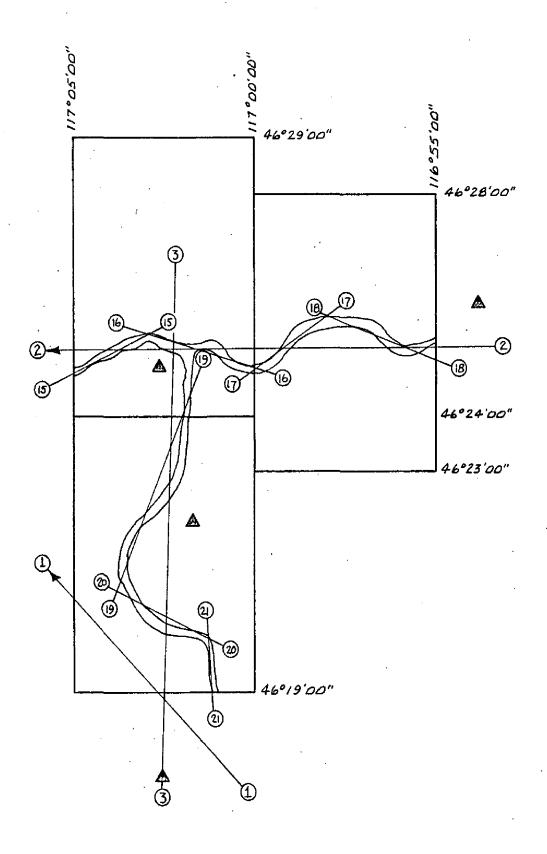
Ĵohn D. Perrow, Jr

Chief, Aerotriangulation Section



JOB CM-7408 SNAKE RIVER WASHINGTON - IDAHO JANUARY, 1975





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NOAA FORM 76-41 (6-75)		DESCRIPTIV	CRIPTIVE REPORT CONTROL RECORD	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RD	.S. DEPARTMENT ATMOSPHERIC A	OF COMMERCE DMINISTRATION
MAP NO. TP-00827	JOB NO. CM-7408	80	GEODETIC DATUM NA 1927	ORIGINATING ACT	ACTIVITY Mapping Division	AM.
		Account	FEET	GEOGRAPHIC POSITION	rioik, Virginië	inia 23510
STATION NAME	SOURCE OF INFORMATION	AEROIRI- ANGULATION POINT	u	\$\phi\$ LATITUDE		REMARKS
	(Index)	NUMBER	zone South	λ LONGITUDE	-	
			x = 2,790 685.72	•	685.72	4,314.28
GRANITE, 1945	P.C. Pg 225	-	y= 484 916.77	~~	4916.77	83.23
	=		x = 2,778 262.12	ф	3262.12	1,737.88
GAR, 1946			y= 491.176.79 λ	γ	1176.79	3,823.21
			χ= 2,783 651.30 φ	¢.	3651.30	1,348.70
TRAMWAY, 1945	11		y= 500 160.17 λ	٠	160.17	4,839.83
			x= 2,784,111.47 \$\phi\$	¢.	4111,47	888.53
WHIT, 1945	11		y= 484 396.47	γ	4396.47	603.53
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			<i>y</i> = <i>γ</i>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
COMPUTED BY A. C. Rauck, Jr.		DATE 2/3/75	ED BY D.	Butler	DATE 3/7,	1/75
LISTED BY		DATE	LISTING CHECKED BY		DATE	
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE	
		SUPERSEDES NO	SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.	IS OBSOLETE.		

COMPILATION REPORT

TP-00827

31. DELINEATION:

Delineation was done from two sets of photographs. The first set was flown in June, 1974 with color film. It was bridged by the Rockville Office. The second set was flown by the Corps of Engineers in February, 1975 using black and white film. No bridge was run on it.

Control for the second set of photographs was established in the B-8 models of the first set. Details which had been altered by construction since the first photography were revised.

32. CONTROL:

See Photogrammetric Plot Report dated January 31, 1975, and the Field Inspection Report dated September - December, 1974, for horizontal and vertical control.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours at 3, 6, and 10 ft. intervals decreasing from the 738 ft. pool level line, and drainage was delineated by office interpretation of the photographs. See compilation instructions dated January 23, 1974 item 9. 04. 1 Contours (Depth Curves).

35. SHORELINE AND ALONGSHORE DETAILS

The pool level line at 738 ft. and details alongshore were delineated by office interpretation of the photographs.

36. OFFSHORE DETAILS:

Critical features, such as rocks, boulders, knobs, and hilltops, thought to be possible dangers to navigation were compiled by office interpretation, and referred to the field editor for verification.

TP-00827

37. LANDMARKS AND AIDS:

None currently charted.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

See the Form 76-36B, item #5 concerning junctions.

40. HORIZONTAL AND VERTICAL ACCURACY

Refer to the Photogrammetric Plot Report, dated January, 1975 for horizontal accuracy. Vertical control established by field methods and the subsequent bridging was adequate for the model leveling process.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with the following U. S., Geological Survey Quadrangle Maps:

Almota, Washington, scale 1:24,000, dated 1964
Ewartsville, Washington scale 1:24,000, dated 1964
Kirby, Washington scale 1:24,000, dated 1964

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made at the west edge of this manuscript with a portion of Chart 18547, in the vicinity of Lower Granite Dam. Currently, there is no chart coverage east of Chart 18547.

TP-00827

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by:

Joanne D. Roderick Cartographer

Date: 10/15/76

Apprôved:

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7408 (Snake River, Lower Granite Dam to Asotin, Washington, Idaho) TP-00827



Camas Prairie (RR)

Crum 1

MacMurry Canyon'

Snake River´

Thorn Thicket Creek

Wawawai 🗸

Wawawai Canyon 1

Wawawai Landing'

Approved by:

Charles E. Harrington Staff Geographer - C51x2

NOAA FORM 75-74 (7-75)	DUG	T000 + 1445	INIC AFFICE DEVIEW	U.S. DEPARTMENT OF COMMERC NOA NATIONAL OCEAN SURVE	
	PHO		RIC OFFICE REVIEW P = 00827		
1. PROJECTION AND GRIDS	2. TITLE	· · · · · · · · · · · · · · · · · · ·	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE	
JLB	JLB		JLB	JLB	
CONTROL STATIONS				<u> </u>	
5. HORIZONTAL CONTROL ST THIRD-ORDER OR HIGHER	ATIONS OF ACCURACY	6. RECOVERAL OF LESS TH (Topographic	BLE HORIZONTAL STATIONS IAN THIRD-ORDER ACCURACY c stations)	7. PHOTO HYDRO STATIONS	
JLB			В	NA	
8. BENCH MARKS	9. PLOTTING	OF SEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS	
JLB		JB	JLB	JLB	
ALONGSHORE AREAS (Nautica	l Chart Data)		<u> </u>	•	
12. SHORELINE	13. LOW-WATE	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES	
NA JLB	l NA		JLB	JLB	
16, AIDS TO NAVIGATION	17. LANDMARK	(\$	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES	
JLiB	JI.	В	JLB	JLB	
PHYSICAL FEATURES 20. WATER FEATURES		121 NATURAL	GROUND COVER	1 22	
		ZII NATURAL		22. PLANETABLE CONTOUR	
JLB 23. STEREOSCOPIC	24. CONTOURS	IN CENERAL	JLB 125. SPOT ELEVATIONS	NA 26 OTHER PHYSICAL	
INSTRUMENT CONTOURS	74. CON 100 KS	OIN GENERAL	25. SPOT ELEVATIONS	FEATURES FEATURES	
JLB	JLE	<u> </u>	JLB	JLB	
CULTURAL FEATURES	1 20 200		120	120	
27, ROADS	28. BUILDING	5	29. RAILROADS	-30. OTHER CULTURAL FEATURES	
JLB	JLB		JLB	JLB	
BOUNDARIES 31. BOUNDARY LINES			32. PUBLIC LAND LINES		
NA			NA NA		
MISCELLANEOUS			3		
33. GEOGRAPHIC NAMES		34. JUNCTION	S	35. LEGIBILITY OF THE MANUSCRIPT	
JLB]	TLB	JLB	
36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT		38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS	
מ זז	JLB		JB	JLB	
JLB JLB 40. REVIEWER Juni By			allut & Hauch J.		
<i>v</i>	11/23/7	76	Albert C. Rauck, Jr.		
Jim Byrd 41. REMARKS (See attached she			, _115010 00 11440		
FIELD COMPLETION ADDITIO		TIONS TO THE	MANUSCRIPT	······································	
	s furnished by th	ne field complet		to the manuscript. The manu-	
COMPILER D. Butler			SUPERVISORDIA C. A	Present a	
F. Margiott	ette	1/78	Albert C. Rauck,	Jr.	
43. REMARKS		·			
See-For	ms 76-36C,	Items #3-2	and #8.		

FIELD EDIT REPORT

Project CM-7408

Lower Granite Reservoir, Snake River Idaho, Washington

September 1977

2. Areal Field Inspection:

The project area is a section of the Snake River that is impounded by the Lower Granite Dam, forming a navigable pool and the lands adjacent to the pool.

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

Except for the area near the mouth of the Clearwater River where the cities of Lewiston, Idaho and Clarkston, Washington are located the area is sparsely populated.

The area is traversed by a line of the Camas Prairie Railroad, along the north and east shore of the Snake River and the Clearwater River. Two highway bridges and one railroad bridge are found in the area. One highway bridge in the vicinity of Clarkston, Washington is under construction.

3. Horizontal Control:

Horizontal control requirements consisted on paneling of preselected triangulation stations, necessary for aerial photography. 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. The establishment of new norizontal control stations was not required for photohorizontal 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.

4. <u>Vertical Control</u>:

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 "V" and a numbering system utilizing the last two digits of the numbered "TP" sheet (quadrangle) and consecutive numbers. A sketch of the feature appears on the reverse side of the photograph.

All leveling was based on bench marks established by the Coast and Geodetic Survey and the Corps of Engineers.

Contours and Drainage:

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

7. Alongshore Features:

Alongshore features in the form of small boat launching ramps, floats, piers, bridges, pumping stations and power transmission lines have been indicated on the field photography.

8. Offshore Features:

Several features in the form of rocks were found along the shoreline. They have been indicated on the field photography. Several concrete bridge piers are found in the channel of the Snake River, near the mouth of the Clearwater River. The piers have been in place for four years and no progress on the bridge construction is evident, although local sources indicate the bridge construction may begin in the near future.

9. Landmarks and Aids to Navigation: ويريم على المائية المائي

All aids to navigation were located by the field party. The majority of the fixed aids to navigation were photo-identified on the prints furnished by the U.S. Corps of Engineers. Several of the fixed aids to navigation were determined by ground survey methods.

Several landmarks for charts were located by the field party either by photo-identification or ground survey methods.

There are numerous skeleton steel, power transmission towers in the area and they are of landmark value. But, except for instances where they are the ends of overhead cable crossings, it is difficult to isolate and identify a particular tower from offshore.

The area is unusual as few salient landmark objects are visible from offshore.

All landmarks and fixed aids to navigation have been listed on Form 76-40.

13. Geographic Names:

Geographic names are the subject of a separate report. The report is dated January 1975.

Special Reports:

The method of leveling used by the field party was the conventional trignometric leveling with the Wild TIA theodolite and stadia rod. Due to the steepness of the canyon walls it was necessary to observe vertical angles across the river to avoid exceeding the 10° limit as imposed by the project instructions. Due to the distance involved, the RANGER III laser system was used with good results. A double determination or a closed loop leveling method was employed to obtain a check elevation.

The entire shoreline was field edited (inspected) from a small boat.

Small Craft Facilities Investigation:

The small craft investigation was conducted during the month of September 1977. All the facilities were visited and the pertinent information has been entered on Form 77-3.

Respectfully submitted,

Robert B. Melby

Chief, PMC Photo Par

NOAA FORM 76-40 (8-74) Replaces C&GS Form 367	-40 Form 367		ATING AIC	NONFLOATING AIDS MATANDER FOR CHARTS	MARKES WAT	FOR CHA	ANIC AND	S. DEPARTM Atmospheri	U.S. DEPARTMENT OF COMMERCE AND ATMOSPHERIC ADMINISTRATION	ORIGINATING ACTIVITY HYDROGRAPHIC PARTY GEODETIC PARTY	CTIVITY
X TO BE CHARTED TO BE REVISED TO BE DELETED	RTED ISED ETED	REPORT (FIGHT PA	sikgvaiv	stAte Washington	ton	Locality Snake Ri Granite	River, te Dam	Lov	ver Res. Nov.19	COMPLETION ACTIVITY COMPLETION ACTIVITY PINAL REVIEWER OUALITY CONTROL & REVIEW GRP.	TTY IVITY LAREVIEW GF NCH
The following objects	objects	HAVE XY HAVE NOT	been Inspected for	ected from sea	ward to de	from seaward to determine their value as landmarks.	r value as	landmarks.		iSee reverse for responsible parsonnel)	rible personnel)
OPR PROJECT	o z	JOB NUMBER CM-7408	TP-00827	UMBER 827	DATUM 1	N.A.1927	7		METHOD AND DA	TE OF LOCATION	
				1		POSITION	NO		(See Instructions	(See instructions on reverse side)	CHARTS
CHARTING	(Record Show tr	DESCRIPTION (Record reason for defetion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	rion nark or aid to nu here applicable,	avigation. . in parentheses)	LATITUDE	ruoE // D.M. Meters	LONGITUDE	TUDE //	OFFICE	FIELD	AFFECTED
LIGHT		Lower Granite Light 4	Reservoir (PA)		46 38	58.78	117 23	45.66		P-5-L Aug. 25, 1977 W75-6-64	
LIGHT	,	Lower Granite Light 5	Reservoir (PA)		46 39	1	117 23	<u> </u>		# U U U U U U U U U U U U U U U U U U U	
LÍGHT		Lower Granite Light 6	Reservoir (PA)		46 37	9	117 23	3		5-6-	
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REVIEW REPORT

TP-00827 · CHART COMPILATION

May 14, 1979

61. GENERAL STATEMENT:

See Summary, page 6 of this Descriptive Report.

There is a significant difference in the scale this map and Map TP-00035(2) which joins it to the west. This is caused by the fact that the mercator projection system for this map has as its central parallel, 46°25'30". The central parallel for TP-00035(2) is 46°38'00". Precautions were taken by the compilation office to assure a satisfactory tie between these maps.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC MAPS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Not applicable.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

The spot elevations and contours shown on this map constitute the hydrography for this area.

65. COMPARISON WITH NAUTICAL CHARTS:

This area has not been previously charted. This map and others in the project will serve as the basis of a new chart. That chart is not currently in publication.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

Compilation of this map complies with the project instructions. The method employed in the application of field edit was neither prohibited nor recommended in the instructions. See Summary, page 6 of this Descriptive Report.

Submitted by:

a. L. Shands

A. L. Shands Final Reviewer

Approved for forwarding:

Billy H. Barner

Chief, Photogrammetric Branch, AMC

Approyed;

Chief, Photogrammetric Branch

Chief, Photogrammetry Division

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP-00827

INSTRUCTIONS

			INSTRUCTIONS
1. Letter	r all informa	tion.	supersedes all information of like nature on the uncorrected chart.
2. In "R 3. Give r	emarks" col easons for d	lumn cross out words the eviations, if any, from	hat do not apply. recommendations made under "Comparison with Charts" in the Review.
CHART	DATE	CARTOGRAPHER	REMARKS
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		01-23-80-RCS	Drawing No.
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