TP-00830

AAOH	FORM (3-76	-35

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Map No.	Edition No.
TP-00830	1
Job No.	
CM-740)8
Map Classification Final	
Field Edited Ma	<u> </u>
Type of Survey	DUV
CHART TOPOGRA	APRI
LOCALITY	ŕ
State	
Washington	
General Locality. Snake, River	<u> </u>
Lower Granite Dam and	l Reservoir
Nisqually John Can	4016
19 74 TO 1 9	77
i sec.	· · · · · · · · · · · · · · · · · · ·
REGISTRY IN ARC	CHIVES
DATE	·

*U.S. GOVERNMENT PRINTING OFFICE:1976-669-248

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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. 00830
]	ORIGINAL	MAP EDITION NO. (1)
	☐ RESURVEY	MAP CLASS Final
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	
	REVISED	јов Рн- <u>СМ-7408</u>
PHOTOGRAMMETRIC OFFICE	LAST PRECEED	ING MAP EDITION
Coastal Mapping Division, Atlantic Marine Center, Norfolk, Virginia	TYPE OF SURVEY	JOB PH
OFFICER-IN-CHARGE	ORIGINAL	MAP CLASS
	RESURVEY REVISED	SURVEY DATES:
Jeffrey G. Carlen	REVISED	19TO 19
I. INSTRUCTIONS DATED		
1. OFFICE	2.	FIELD
Aerotriangulation 09/23/74	06/05/74	
Compilation 01/23/75		
		•
II. DATUMS		
	OTHER (Specity)	
1. HORIZONTAL: A 1927 NORTH AMERICAN		
☐ MEAN HIGH-WATER	OTHER (Specify)	
2. VERTICAL:		
MEAN LOWER LOW-WATER	N	V
3. MAP PROJECTION		Vertical Datum, 1929 GRID(S)
İ	STATE	ZONE
Mercator - Central Parallel: 46°25'30"	Washington	South
5. SCALE	STATE	ZONE
1:10,000 at central parallel		
OPERATIONS	NAME	DATE
1. AEROTRIANGULATION BY	M. McGinley	Jan 1975_
METHOD: Wild STK-1 LANDMARKS AND ARDS BY		Jan 1975
2. CONTROL AND BRIDGE POINTS PLOTTED BY	R. Robertson	Jan 1975
метноо: Calcomp. снескео ву	R. Robertson	Jan 1975
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	G. Morris	Sep 1976
COMPLATION CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY	J. Byrd	Sep 1976 Sep 1976
INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:5,000 CHECKED BY	G. Morris J. Byrd	Sep 1976
4. MANUSCRIPT DELINEATION PLANIMETRY BY	D. Butler	Oct 1976
CHECKED BY	J. Byrd	Dec 1976
contours by METHOD: Smooth drafted	D. Butler	Oct 1976
CHECKED BY	G. Morris	Dec 7 1976
scale: 1:10,000 at checked by	N.A.	-
central parallel CHECKED BY 5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	J. Byrd	Dec 7 1976
ву	J. Roderick	Dec 1977
6. APPLICATION OF FIELD EDIT DATA CHECKED BY	J. Byrd	Jan 1978
7. COMPILATION SECTION REVIEW BY	J. Byrd	Jan 1978
8. FINAL REVIEW BY	A. L. Shands	May 1979
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	A. L. Shands E. L. Rolle	Jul 1979
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		July 1979 Nov 1979

	•	mp 000			PHERIC ADMINISTRATIO					
	COM	TP-008 PILATION		ŗ	ATTORNE GOLAN SUNTE					
1. COMPILATION PHOTOGRAPHY				·· <u>·</u> ······						
CAMERA(S)	יישיי	TYPES	OF PHOTOGRAPHY	T1	TIME REFERENCE					
Wild RC-8 "E" am	<u>.aw</u>	10. 50. 5		ZONE						
PREDICTED TIDES	N.A.	(P) COLO	HROMATIC		Ific Xstandar					
TREFERENCE STATION RECORDS TIDE CONTROLLED PHOTOGRAPH	N.A.	(I) INFR.		MERIDIAN	☐ DAYLIGH					
				120						
NUMBER AND TYPE	DATE	TIME	SCALE	- *	TAGE OF TIDE					
1.		10.10	1.10.000	- -						
74E(C)5851 - 5856	6/13/74	12:10	1:10,000	I WIJ	TE: Tides are					
74E(C)5840 - 5847	6/13/74	12:32	1:10,000	no:	t applicable to					
74E(C)5791 - 5792	6/13/74	12:32		l th	is project.					
175-6(P) 101-109 ★	4/21/75		1:12,000	'						
				}						
				ļ						
	}		}	1						
REMARKS										
* Corps of Engin										
* Used only fo		c deline	ation of fiel	d edit item	is.					
2. SOURCE OF MEAN HIGH-WATER LI	NE:									
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listed 1:10,000			, , , , ,	, 10 2 44	• • •					
11sted 1.10,000	Scare photo	graphy.								
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3. SOURCE OF MEAN LOW-WATER OR	MEAN LOWER LO	W-WATER LII	NE:		-					
3. SOURCE OF MEAN LOW-WATER OR	MEAN LOWER LO	W-WATER LII	NE:	· · · · · · · · · · · · · · · · · · ·						
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3. source of mean low-water or Not applicable			NE:							
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3. SOURCE OF MEAN LOW-WATER OR Not applicable			NE:		-					
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Not applicable (to this pro	ject.	- Marie							
Not applicable (to this pro	ject.	reys that are sources i	ior photogrammetri	c survey information.)					
Not applicable (to this pro	ject.	- Marie							
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Not applicable (SURVEYS (List o	ject. nly those surv Y USED S	reys that are sources i	ior photogrammetri	c survey information.) SURVEY COPY USED					

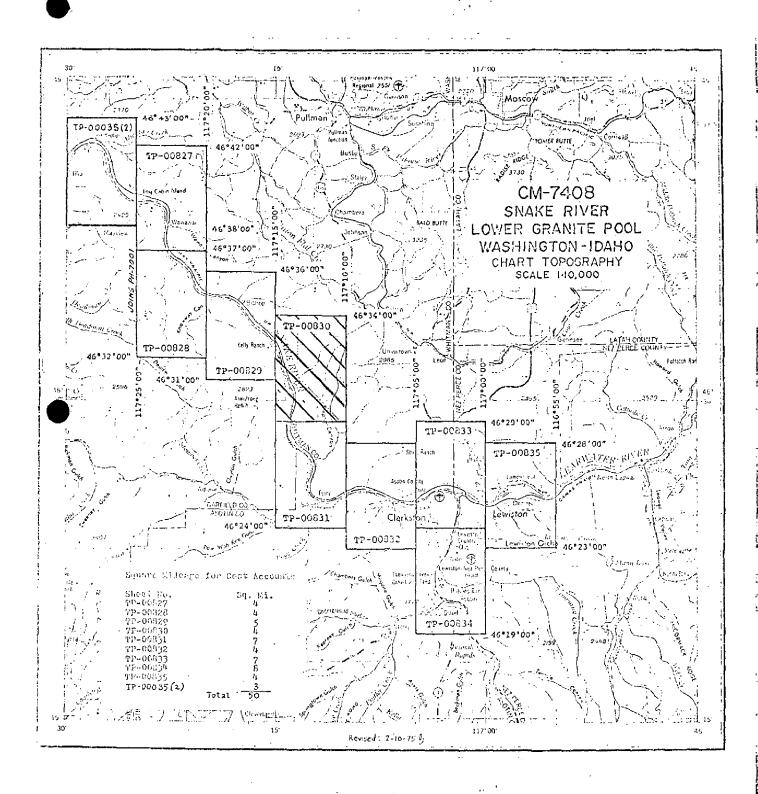
		HISTORY OF FIELD			
I. 🕅 FIELD INSPEC	TION OPE	RATION FIELI	EDIT OPERATION		
	OP	ERATION	N/	ME	DATE
I. CHIEF OF FIELD I	PARTY		ì		Sept-Dec
	A		R. Melby		1974
NOBIZONTAL CON	TROI	RECOVERED BY ESTABLISHED BY	R. Melby		6/74
2. HORIZONTAL CON	I NOL	PRE-MARKED OR IDENTIFIED BY	None R. Melby		6/74
		RECOVERED BY	R. Melby		Sep-Dec '7
. VERTICAL CONTR	OL	ESTABLISHED BY	R. Melby		Sep-Dec '74
		PRE-MARKED OR IDENTIFIED BY	R. Melby		Sep-Dec_'7
	R	ECOVERED (Triangulation Stations) BY	None		
4. LANDMARKS AND		LOCATED (Field Methods) BY	None		
AIDS TO NAVIGAT	ION	IDENTIFIED BY	None		
		TYPE OF INVESTIGATION			
5. GEOGRAPHIC NAM	ES	∑X COMPLETE BY			
INVESTIGATION		SPECIFIC NAMES ONLY]		
		NO INVESTIGATION	R. Melby		1/75
6. PHOTO INSPECTIO	ON	CLARIFICATION OF DETAILS BY	None		
. BOUNDARIES AND	LIMITS	SURVEYED OR IDENTIFIED BY	N.A		
I. SOURCE DATA I. HORIZONTAL CON	TROL IDE	MILETO	2. VERTICAL CONT	BOL IDENTIFIED	
I. HORIZONIAL COM	T NOE 101		Z. VERVIORE COR	NOL IDEN IN IED	
PHOTO NUMBER		STATION NAME	PHOTO NUMBER	STATION DE	SIGN A TION
74E(C)5726	FEID	ER, 1945	74E(C)5791 74E(C)5844	V30-01, V30 V30-03	-02
			74E(C)5845		-05, B.M.ZCP4
			74E(C)5847	V30-06, V30-	
3. PHOTO NUMBERS	(Clarificat	ion of details)			
None				•	
4. LANDMARKS AND	AIDS TO I	NAVIGATION IDENTIFIED			
None					
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER	ØBJEC T	NAME
			}		
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GEOGRAPHIC NAM		X REPORT NONE	6. BOUNDARY AND	LIMITS: REPO	RT X NONE
7. SUPPLEMENTAL N	IAPS AND	PLANS .			
None					
. OTHER FIELD RE	CORDS (SA	etch books, etc. DO NOT list data submit	ted to the Geodesy Div	islon)	

NOAA FORM 76-36C (3-72)	TP-00830 History of Field		NIC AND ATMOSPHERI	ENT OF COMMERCE IC ADMINISTRATION IAL OCEAN SURVEY
1. TI FIELD INSPECTION C	PERATION XX FIELD	EDIT OPERATION		
	OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY	,			
I CHIEF OF FIELD PARTY		R. Melby	 	09/77
5 UADITAUTI CONTROL	RECOVERED BY	None		
2. HORIZONTAL CONTROL	ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY			
	RECOVERED BY	None		1
3. VERTICAL CONTROL	ESTABLISHED BY	None		
	PRE-MARKED OR IDENTIFIED BY	None		
	RECOVERED (Triangulation Stations) BY	None		
4. LANDMARKS AND	LOCATED (Field Methods) BY			09/77
AIDS TO NAVIGATION	IDENTIFIED BY	R. Melby		09/77
	TYPE OF INVESTIGATION	1		
5. GEOGRAPHIC NAMES INVESTIGATION	COMPLETE BY	ļ		1
INVESTIGATION	SPECIFIC NAMES ONLY			
	X NO INVESTIGATION			
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	R. Melby	·	09/77
7. BOUNDARIES AND LIMIT	S SURVEYED OR IDENTIFIED BY	None		
1. HORIZONTAL CONTROL	IDENTIFIED	2. VERTICAL CO	NTROL IDENTIFIED	
None			None	
PHOTO NUMBER	ST A TION NAME	PHOTO NUMBER	STATION DE	SIGNATION
3. PHOTO NUMBERS (Clarit	•			
W75-6-(P) 101				
4. LANDMARKS AND AIDS T	O NAVIGATION IDENTIFIED			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT	NAME
W75-6∦P)104 Lowe:	r Granite Reservoir Light 14			
5. GEOGRAPHIC NAMES:	REPORT WONE	6. BOUNDARY AN	ID LIMITS: TREPO	RT X NONE
7. SUPPLEMENTAL MAPS A			IO EIMITS. REPO	NONE
None 8. OTHER FIELD RECORDS	(Sketch books, etc. DO NOT list data submit	ted to the Geodesy D	Pivision)	
1 - Film field 1 - field edit	edit ozalid 1-geog	raphic names	·	

NOAA FORM 76-36D (3-72)

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

ĺ		RECO	TP-00830 RD OF SURVE	Y USE				
I. MANUSCRI	IPT COPIES							
		MPILATION STAGE	is			DATE MA	NUSCRI	PT FORWARDED
D,	ATA COMPILED	DATE	RE	MARKS		MARINEC	HARTS-	∏ 7000-5000001
	tion compiler field edit	Oct. 1976	Class III	ipt	04/4/	·	Field edit 7/4/77	
	dit applied tion complete	Dec. 1977	Class I :	manuscrij	pt	02/2/7	78	
Final R	eview	May 1979	Final			Jul 19	979	
	RKS AND AIDS TO NAVIGA RTS TO MARINE CHART DI		DATA BRANCH					
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED			REMA	RKS		
1		Feb. 3, 197	 	id for cl	harts			
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3. RE	EPORT TO MARINE CHART EPORT TO AERONAUTICAI	L CHART DIVISION						
1. X 80	AL RECORDS CENTER DAT IRIDGING PHOTOGRAPHS; CONTROL STATION IDENTI	X DUPLICATE						
3. X sc	OURCE DATA (except for G CCOUNT FOR EXCEPTION	eographic Names Re						
4. 🔲 b	DATA TO FEDERAL RECOR	RDS CENTER. DAT	E FORWARDED:		· 			
IV. SURVEY	SURVEY NUMBER	hall be completed ea		p edition is re		W-2-2-2		
SECOND	TP -	_ (2) PH			☐ REV		RES	URVEY
EDITION	DATE OF PHOTOGRAPH			On.		MAP CL	□v.	FINAL
T1000	SURVEY NUMBER	JOB NUMBE	R	1	REV	YPE OF ST	URVEY	
THIRD EDITION	DATE OF PHOTOGRAPH	(3) PH-	ELD EDIT	.		MAP CL		## FINAL
FOURTH	SURVEY NUMBER	JOS NUMBE	R			YPE OF SU		
EDITION	DATE OF PHOTOGRAPH		ELD EDIT	 □n.	\ 111.	MAPCL		DEINAL



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. $46^{\circ}25'30''$ as the central parallel and Map TP-00035(2) has lat. $46^{\circ}38'00''$ 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

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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, CPML03

CPML cc:

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 1 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 evertical 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 \leftarrow 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

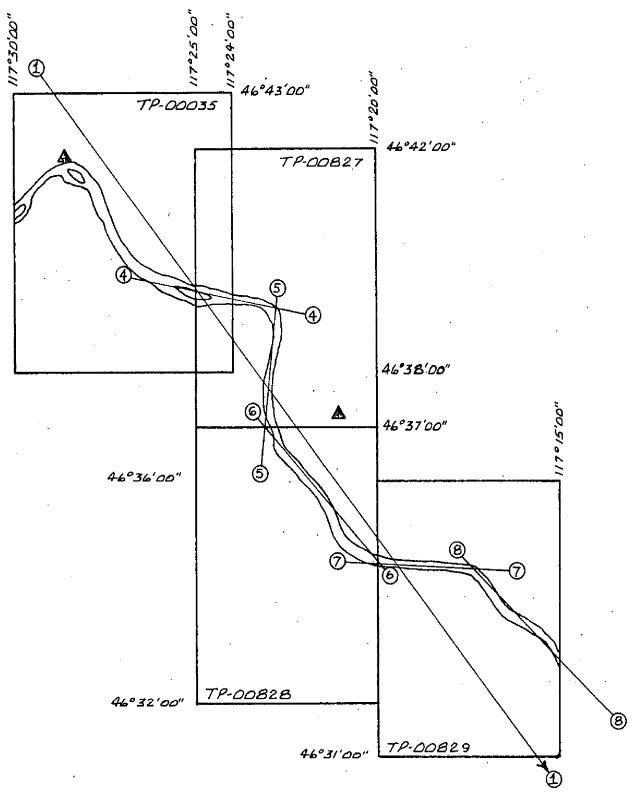
Photography was adequate as to overlap, definition, and coverage.

Submitted by:

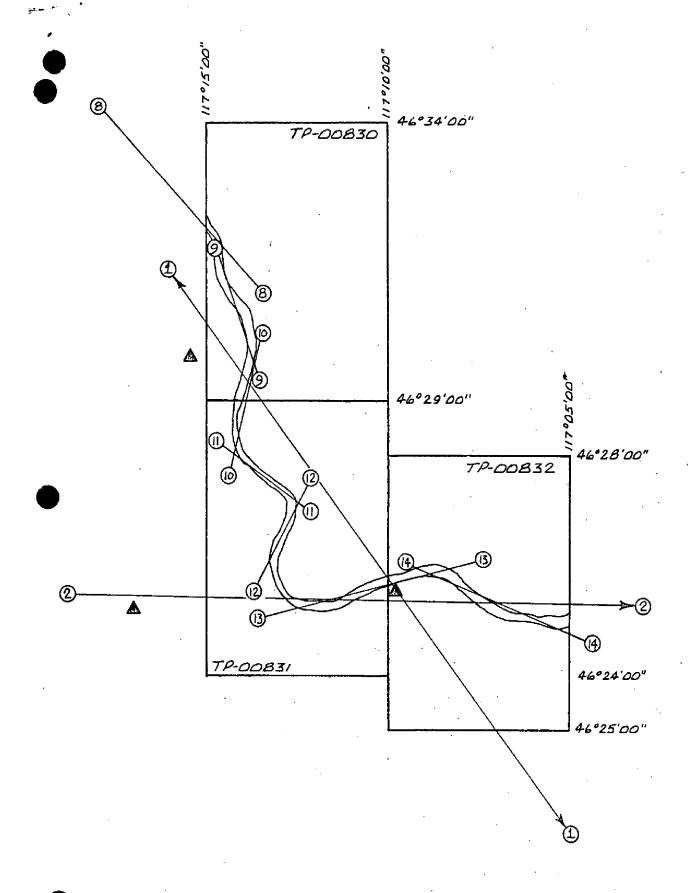
Michael L. McGinley

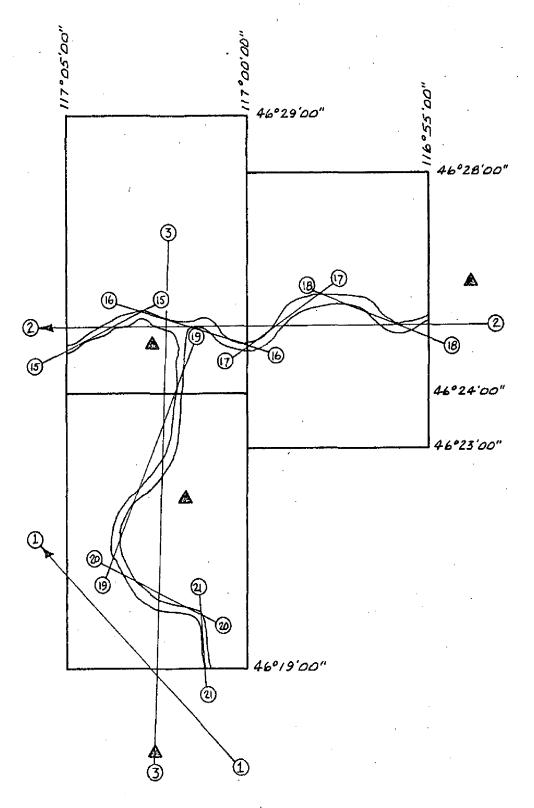
John D. Perrow, Jr./

Chief, Aerotriangulation Section



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





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MAP NO.	JOB NO.		GEODETIC DATIIM			
TP-00830	CM-7408	90	N.A. 1927	Coastal N	Div	n, AMC
STATION NAME	SOURCE OF INFORMATION	AEROTRI- ANGULATION POINT	Washington	COORDING POSTHON FEE	Virginia 23510	RKS
		NUMBER	ZONE South	- A LOWGITUDE		
			χ=	奉 2822 483.67	2483.67	2516.33
INDIAN, 1945	P.C.Pg.225		y=	妻 446 359.36	1350 36	367.0 67.
			χ=	季 2830 250.22	250 22	77.070
JOHN, 1945	P.C.Pg.225		y=	秦 447 618 10	25.562	01.0414
			χ=	季 2832 745 80	2210-112	201.0
COLTON, 1945	P.C.Pg.224		y=	重 7.63 890 10	2000 10	1100 01
			χ=	奉 7817 015 10	3090.19	1109.81
FEIDER, 1945	P.C.Pg.225		y= west of map	季 441 968 33	1068 23	2021 67
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בר מל			LISTING CHECKED BY		3////5 DATE	2
HAND PLOTTING BY	-	DATE	HAND PLOTTING CHECKED BY		DATE O	

COMPILATION REPORT

TP-00830

31. DELINEATION

Delineation was by the Wild B-8 stereoplotter.

32. CONTROL

See the Photogrammetric Plot Report dated Jan. 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 the Wild B-8 stereoplotter office interpretation of the photographs. See project instructions dated January 23, 1974 item 9. 04. 1 Contours (Depth Curves). Notall of the 66 Bfoot contour was compiled due to construction work and the filling of the pool that took place during a ten month period between photographic coverage.

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 for the new chart, were compiled by the stereoplotter.

37. LANDMARKS AND AIDS

This area has not been previously charted. Landmarks and aids are to be investigated by the field editor.

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 Quadrangles:

Colton, Washington scale 1:24,000, dated 1964 Silcott, Washington scale 1:24,000, dated 1971

47. COMPARISON WITH NAUTICAL CHARTS

This area has not been previously charted.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by: David P. Butler

David P. Butler Cartographic Aid

Date: 13 October 1976

Approved:

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section

albet c. Rauch &

December 8, 1977

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7408 (Snake River, Lower Granite Dam to Asotin, Washington, Idaho) TP-00830

Blyton Landing

Camas Prairie (RR)

Nisqually John Canyon

Snake River

Approved by:

Charles E. Harrington Staff Geographer - C51x2

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FIELD EDIT REPORT

Project CM-7408

Lower Granite Reservoir, Snake River Idaho, Washington

September 1977

2. Areal Field Inspection:

d118011911

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.

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. 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 "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:

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.

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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.

14. Special Reports:

The method of leveling used by the field party was the conventional trignometric leveling with the Wild TlA 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.

15. 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 Party

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NOAA FORM 76-40 (8-74)	Replaces C&GS Form 567	XYO BE CHARTED TO BE REVISED TO BE DELETED	The following objects	OPR PROJECT N			CHARTING		LIGHT											



REVIEW REPORT TP-00830 CHART TOPOGRAPHY

May 25, 1979

61. GENERAL STATEMENT:

See Summary, page 6 of this Descriptive Report.

62. COMPARIOSN WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Not applicable.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

The contours and spot elevations shown on the map are to serve as the hydrography for the new chart.

65. COMPARISON WITH NAUTICAL CHARTS

All the maps included in this project will serve as the basis of a new chart which at this time is not in production.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map was compiled in accordance with the project instructions. See summary, page 6 of this Descriptive Report concerning the application of field edit items.

Submitted by:

Q.L. Shands

A. L. Shands

Final Reviewer

Approved for forwarding:

Bally & Barns

Chief, Photogrammetric Branch, AMC

Approved:

Chief. Photogramme and D.

Chief, Photogrammetry Division

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP-00830

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
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