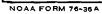
# TP-00832

NOAA FORM 76. (3-76)	_35
U.S. DEPARTMENT OF NATIONAL OCEANIC AND ATMOSPH	IERIC ADMINISTRATION
NATIONAL OCEAN :	SURVEY
DESCRIPTIVE	REPORT
— <del></del>	
Map No.	Edition No.
TP-00832	1
Job No. · · · · · · · · ·	
CM-7408 Map Classification Final	8
Map Classification Final	,
Field Edited Ma Type of Survey	ap
CHART TOPOGRA	A DUV
LOCALITY	Y
State	
Washington	n
General Locality Snake Riv	ver
Lower Granite Dam at Locality	nd Reservoir
Wilma	
<u> </u>	
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KEGISIKI IK AK	CHIVES
DATE	

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

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCI	TYPE OF SURVEY	SURVEY TP. 00832
	ORIGINAL	MAP EDITION NO. (1)
DECORPTIVE REPORT DATA DECORP	RESURVEY	MAP CLASS Final
DESCRIPTIVE REPORT - DATA RECORD	-	.,,
	REVISED	јов <b>Рн.</b> _ <u>СМ-7408</u>
PHOTOGRAMMETRIC OFFICE	LAST PRECEED	ING MAP EDITION
Cooper Manning Division Norfolk VA	TYPE OF SURVEY	JOB PH
Coastal Mapping Division, Norfolk, VA	ORIGINAL	MAP CLASS
	RESURVEY	SURVEY DATES:
Jeffrey G. Carlen	REVISED	19TO 19
1. INSTRUCTIONS DATED		
1. OFFICE	2.	FIELD
Aerotriangulation 9/23/74	June 5, 1974	
Compilation 1/23/75		
Compilation		
	<u> </u>	
II. DATUMS	OTHER (Specify)	<del></del>
I. HORIZONTAL: 👗 1927 NORTH AMERICAN	(opcomy)	
MEAN HIGH-WATER	OTHER (Specify)	<del> </del>
MEAN LOW-WATER		
2, VERTICAL: MEAN LOWER LOW-WATER	National Geodetic	Vertical Datum,
MEAN SEA LEVEL	1929	
3. MAP PROJECTION	STATE	GRID(S)
Mercator- Central Parallel: 46°25'30"		1
5. SCALE	Washington	South
1:10,000 at Central Parallel	Idaho	West
III. HISTORY OF OFFICE OPERATIONS		
OPERATIONS	NAME	DATE
1. AEROTRIANGULATION BY		1/31/75
METHOD: Wild STK-1 LANDMARKS AND AIDS BY	2 2	1 /31 /75
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Calcomp. CHECKED BY		1/5/75 1/5/75
I Ourcomp.	. s. sincettsoil	1 413113
2 STERROSCODIC INSTRUMENT	I Notoror	Nov 1976
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY	L. Neterer	Nov 1976 Nov 1976
	L. Neterer J. Byrd	Nov 1976 Nov 1976
COMPILATION CHECKED BY	L. Neterer J. Byrd L. Neterer J. Byrd	Nov 1976 Nov 1976 Nov 1976
COMPILATION CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY	L. Neterer J. Byrd L. Neterer J. Byrd D. Butler	Nov 1976 Nov 1976 Nov 1976 Nov 1976
COMPILATION CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:5,000 CHECKED BY  4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY	L. Neterer J. Byrd L. Neterer J. Byrd D. Butler J. Byrd	Nov 1976 Nov 1976 Nov 1976 Nov 1976 Dec 1976
COMPILATION CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:5,000 CHECKED BY 4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: Smooth Drafted CONTOURS BY	L. Neterer J. Byrd L. Neterer J. Byrd D. Butler J. Byrd D. Butler	Nov 1976 Nov 1976 Nov 1976 Nov 1976 Dec 1976 Nov 1976
COMPILATION CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:5,000 CHECKED BY  4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: Smooth Drafted CHECKED BY	L. Neterer J. Byrd L. Neterer J. Byrd D. Butler J. Byrd D. Butler J. Byrd	Nov 1976 Nov 1976 Nov 1976 Nov 1976 Dec 1976
COMPILATION CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:5,000 CHECKED BY  4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY	L. Neterer J. Byrd L. Neterer J. Byrd D. Butler J. Byrd D. Butler J. Byrd NA	Nov 1976 Nov 1976 Nov 1976 Nov 1976 Dec 1976 Nov 1976
COMPILATION CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:5,000 CHECKED BY  4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY	L. Neterer J. Byrd L. Neterer J. Byrd D. Butler J. Byrd D. Butler J. Byrd NA NA	Nov 1976 Nov 1976 Nov 1976 Nov 1976 Dec 1976 Nov 1976 Dec 1976 Dec 1976
COMPILATION CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:5,000 CHECKED BY  4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: Smooth Drafted CONTOURS BY SCALE: 1:10,000 at HYDRO SUPPORT DATA BY CONTOURS BY CHECKED BY SCALE: 1:10,000 at CHECKED BY	L. Neterer J. Byrd L. Neterer J. Byrd D. Butler J. Byrd D. Butler J. Byrd NA NA J. Byrd J. Roderick	Nov 1976 Nov 1976 Nov 1976 Nov 1976 Dec 1976 Nov 1976 Dec 1976 Dec 1976 Dec 1976
COMPILATION CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:5,000 CHECKED BY  4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: Smooth Drafted CONTOURS BY CHECKED BY SCALE: 1:10,000 at HYDRO SUPPORT DATA BY CENTRAL PARALLEL CHECKED BY 5. OFFICE INSPECTION PRIOR TO FIELD EDIT  6. APPLICATION OF FIELD EDIT DATA CHECKED BY	L. Neterer J. Byrd L. Neterer J. Byrd D. Butler J. Byrd D. Butler J. Byrd NA NA J. Byrd J. Roderick J. Byrd	Nov 1976 Nov 1976 Nov 1976 Nov 1976 Nov 1976 Dec 1976 Dec 1976 Dec 1976 Dec 1977 Jan 1978
COMPILATION CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:5,000 CHECKED BY  4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY  METHOD: Smooth Drafted CONTOURS BY CHECKED BY  SCALE: 1:10,000 at HYDRO SUPPORT DATA BY CENTRAL Parallel CHECKED BY  5. OFFICE INSPECTION PRIOR TO FIELD EDIT  6. APPLICATION OF FIELD EDIT DATA CHECKED BY  7. COMPILATION SECTION REVIEW BY	L. Neterer J. Byrd L. Neterer J. Byrd D. Butler J. Byrd D. Butler J. Byrd NA NA J. Byrd J. Roderick J. Byrd J. Byrd	Nov 1976 Nov 1976 Nov 1976 Nov 1976 Nov 1976 Dec 1976 Dec 1976 Dec 1976 Dec 1977 Jan 1978 Jan 1978
COMPILATION CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:5,000 CHECKED BY  4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: Smooth Drafted CONTOURS BY CHECKED BY SCALE: 1:10,000 at CHECKED BY CONTOURS BY CHECKED BY  5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY 6. APPLICATION OF FIELD EDIT DATA CHECKED BY 7. COMPILATION SECTION REVIEW BY 8. FINAL REVIEW BY	L. Neterer J. Byrd L. Neterer J. Byrd D. Butler J. Byrd D. Butler J. Byrd NA NA J. Byrd J. Roderick J. Byrd J. Byrd A. L. Shands	Nov 1976 Nov 1976 Nov 1976 Nov 1976 Dec 1976 Nov 1976 Dec 1976 Dec 1976 Dec 1977 Jan 1978 Jan 1978 Jun 1979
COMPILATION CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:5,000 CHECKED BY  4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY  METHOD: Smooth Drafted CONTOURS BY CHECKED BY  SCALE: 1:10,000 at HYDRO SUPPORT DATA BY CENTRAL Parallel CHECKED BY  5. OFFICE INSPECTION PRIOR TO FIELD EDIT  6. APPLICATION OF FIELD EDIT DATA CHECKED BY  7. COMPILATION SECTION REVIEW BY	L. Neterer J. Byrd L. Neterer J. Byrd D. Butler J. Byrd D. Butler J. Byrd NA NA J. Byrd J. Roderick J. Byrd J. Byrd A. L. Shands A. L. Shands	Nov 1976 Nov 1976 Nov 1976 Nov 1976 Nov 1976 Dec 1976 Dec 1976 Dec 1976 Dec 1977 Jan 1978 Jan 1978



NOAA FORM 76-36B (3-72)		TP- 001	-	L OCEANIC	AND ATMOSE	PHERIC AD	OF COMMERCI OMINISTRATION OCEAN SURVEY
1. COMPILATION PHOTOGRAPHY	<del> </del>	<del></del>					
CAMERA(S)		TVDE	S OF PHOTOGRA	A DUV			
   Wild RC-8 "E" and "W"		''''	LEGEND	`` '	TIM	E REFERE	ENCE
TIDE STAGE REFERENCE				<u> </u>	ZONE		<u> </u>
PREDICTED TIDES	΄,	(C) <u>CO</u>		1	Pacif	Fic	<b>Ž</b> STANDARD
REFERENCE STATION RECORDS	s ,		NCHROMATIC	Ì	MERIDIAN	<u></u>	<b>1</b>
TIDE CONTROLLED PHOTOGRA	PHY	(1) <b>IN</b> F	RARED	Ì	120t	:h	DAYLIGHT
NUMBER AND TYPE	DATE	TIME	sc	ALE	şT	AGE OF T	IDE
74E(C)5878-5879	6/13/74	13:0	II .	0,000			
74E(C)5912-5915	6/13/74	13:3		0,000			
74E(C)5896-5897	6/13/74	13:3	1:10	0,000	NOTE:		
∵w75 2(P) 189-192]	Feb 14-15'7!	5	1:12	2,000	applica	ble to	this
W75 2(P) 206-210	Feb 14-15'7		1:12	2,000	project		
*W75-6(P) 129-131		ļ	1.12	. 000			
*W75-6(P) 133-138	Apr 21, 1975 Apr 21, 1975		i i	,000			
-W/3-0(E) 155-150/	Apr 21, 19/ J		1:12	,000			
	<u> </u>						
REMARKS	r					1	
*_Used <u>for applicati</u>		4× C	s of Engin	ees Oh	2449		
field edit items on 2. SOURCE OF MEAN HIGH-WATER	<u> </u>	AN COT	3 07 F.BIA	reens [	1,1		
			<b>V</b>				
3. SOURCE OF MEAN LOW-WATER O	DR MEAN LOWER LO		LINE:				
4. CONTEMPORARY HYDROGRAPH SURVEY NUMBER DATE(S)	SURVEYS (List of		crveys that are so		notogrammetric TE(S)	T	ormation.)
5. FINAL JUNCTIONS NORTH E	AST TO COOSE		SOUTH		WEST		
	AST TP-00833 TP-00834	\$	1	-17.037	"=3'	TP-00	831
	TP-00834	<u> </u>	No Sur	vey			
REMARKS							

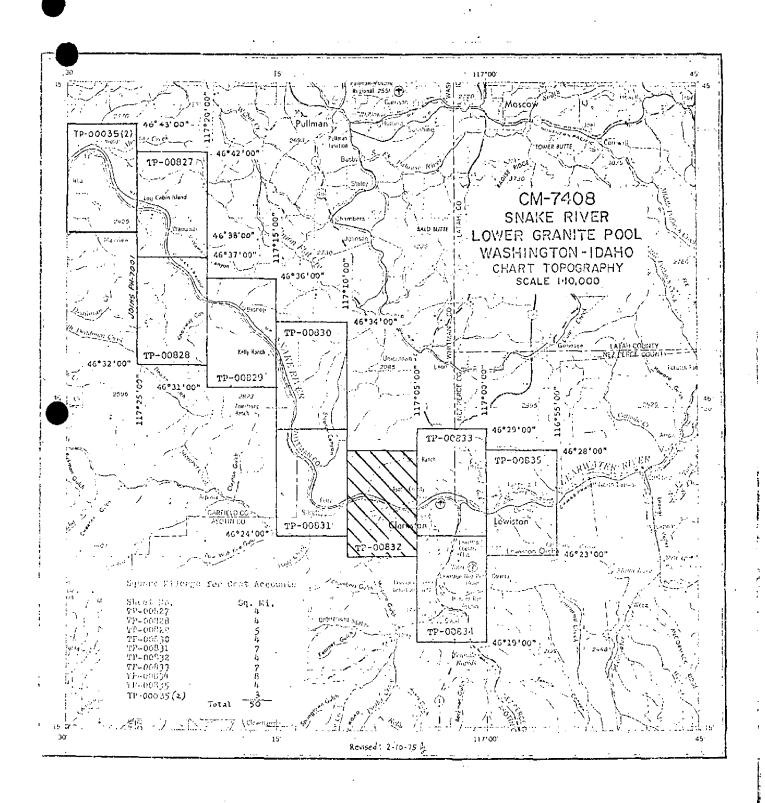
NOAA FORM 76-36C (3-72)		TP- 0083 HISTORY OF FIELD	2	NIG AND ATMOSPHERIC	NT OF COMMERCE ADMINISTRATION LOCEAN SURVEY
I. 🔀 FIELD INSPEC	TION OP	ERATION FIEL	DEDIT OPERATION		
		PERATION		NAME	DATE
1. CHIEF OF FIELD	PARTY		D 1/ 17		L C D 176
		RECOVERED BY	R. Melk	ЭУ	Sep-Dec'74
2. HORIZONTAL CO	NTRAI	ESTABLISHED BY	None		<del> </del>
21 1101112011772 00		PRE-MARKED OR IDENTIFIED BY	None		
		RECOVERED BY	R. Mell	by	Sep-Dec 174
3. VERTICAL CONT	ROL	ESTABLISHED BY	R. Mell		Sep-Dec 174
		PRE-MARKED OR IDENTIFIED BY	R. Mell		Sep-Dec'74
······································		RECOVERED (Triangulation Stations) BY	None		<del></del>
4. LANDMARKS AND	)	LOCATED (Field Methods) BY	None		
AIDS TO NAVIGA	TION	IDENTIFIED BY	None		
· · · · · · · · · · · · · · · · · · ·	*	TYPE OF INVESTIGATION			
5. GEOGRAPHIC NA	MES	COMPLETE	]		
INVESTIGATION		SPECIFIC NAMES ONLY			
		NO INVESTIGATION	R. Mel	by .	Jan 1975
6. PHOTO INSPECT	ON	CLARIFICATION OF DETAILS BY	None		
7. BOUNDARIES AND	DLIMITS	SURVEYED OR IDENTIFIED BY	NA		
11. SOURCE DATA					
1. HORIZONTAL CO	NTROL II	DENTIFIED	2. VERTICAL CON	TROL IDENTIFIED	
None_			<u> </u>	<u></u>	<u> </u>
PHOTO NUMBER		STATION NAME	PHOTO NUMBER	STATION DESI	GNATION
			74E(C)5897	V32-01	
ſ			74E(C)5895	V32-02, V32-03	
			74E(C)5893	V32-04, V32-05	
1			74E(C)5911	V32-06, V32-07	
			74E(C)5912	V32-12	
]			74E(C)5913	V32-08,V32-09 BM GP-49(USE)	
3. PHOTO NUMBERS	Cleritic	estion of details)	74E(C)5914 74E(C)5915	V32-10, V32-11	<del></del>
J. THOTO HOMBENS	, (Clarino	enon or ustanty	74E(C)3913	V32-10, V32-11	
None					
None 4. LANDMARKS AND	AIDS TO	NAVIGATION IDENTIFIED			
.None					
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER	OBJECT N	AME
			1		
			<b>j</b>		
			]		
ł				l:	
				L <u> </u>	
5. GEOGRAPHIC NA		REPORT NONE	6. BOUNDARY AN	D LIMITS: REPOR	T X NONE
7. SUPPLEMENTAL	MAPS AN	ID PLANS			
None					
	CORDS /	Sketch books, etc. DO NOT list data submit	ted to the Geodesii D	ivision)	<del></del>
J. O.HEM FIELD NE		Server opens, one, see the total data annual	to the Georgesy D	i eratorij	
None					
1,0110					

NDAA FORM 76-36C (3-72) TP-0083 HISTORY OF FIELD	NATIONAL OCEANIC AND A	S. DEPARTMENT OF COMMERCE ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY
1. FIELD INSPECTION OPERATION X FIEL	D EDIT OPERATION	
OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY		- 4077
<u> </u>	R. Melby	Sep 1977
RECOVERED BY	R. Melby	Sep 1977
2. HORIZONTAL CONTROL ESTABLISHED BY	None	<del></del>
PRE-MARKED OR IDENTIFIED BY	None	
RECOVERED BY	None	
3. VERTICAL CONTROL ESTABLISHED BY	None	
PRE-MARKED OR IDENTIFIED BY	None	
RECOVERED (Triangulation Stations) 89	None P Molby	Sep 1977
4. LANDMARKS AND LOCATED (Field Methods) BY AIDS TO NAVIGATION	R. Melby	Sep 1977
TYPE OF INVESTIGATION	R. Melby	26b 1311
5. GEOGRAPHIC NAMES COMPLETE  INVESTIGATION SPECIFIC NAMES ONLY		
31 GG1116 MAMES GHZ1		
NO INVESTIGATION	<del>+</del>	
6. PHOTO INSPECTION CLARIFICATION OF DETAILS BY	R. Melby	Sep 1977
7. BOUNDARIES AND LIMITS SURVEYED OR IDENTIFIED BY	None	
II. SOURCE DATA  1. HORIZONTAL CONTROL IDENTIFIED	2. VERTICAL CONTROL IDE	MILEIRO
•	T .	
None None	None T	
PHOTO NUMBER STATION NAME	PHOTO NUMBER S	STATION DESIGNATION
3. PHOTO NUMBERS (Clarification of details)		
75W-6-129-131, 133-139		
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED		
PHOTO NUMBER OBJECT NAME	PHOTO NUMBER	OBJECT NAME
W75-6 (P) 133 LOWER GRANITE RESERVOIR LIGHT 24		<del></del>
W75-6-(P)130 LOWER GRANITE RESERVOIR LIGHT 25		
W75-6 (P)134 LOWER GRANITE RESERVOIR LIGHT 26		
W75-6 (P)137 LOWER GRANITE RESERVOIR LIGHT 28		
W75-6 (P)136 LOWER GRANITE RESERVOIR LIGHT 29	1	
W75-6(P)138 LOWER GRANITE RESERVOIR LIGHT 31		
W/J=0(1)1J0   Bonzak Grant-12 ti-22-11-1-1		
5. GEOGRAPHIC NAMES: REPORT X NONE	6. BOUNDARY AND LIMITS:	REPORT X NONE
7. SUPPLEMENTAL MAPS AND PLANS		
None		
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submit	itted to the Geodesy Division)	
1-Film Field Edit Ozalid GEOGRAPHI	C NAME REPORT	
1-Field Edit Report		
2-NOAA Forms 76-165		
1.5 . 5 . 203		

NOAA FORM 76-36D (3-72)

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
TP-00832

} 		RECO	RD OF SURVE	Y USE			
I. MANUSC	CRIPT COPIES						
	co	MPILATION STAGE	is .				IPT FORWARDED
<del></del>	DATA COMPILED	DATE	<del> </del>	MARKS		NE CHARTS	HYDRO SUPPORT
	lation complete ng field edit	Nov 1976	Class III	I Manuscri		/4/77	Field edit 8/4/77
	edit applied. lation complete	Dec 1977	Class I N	Manuscript	2.	/2/78	
Final	Review	Jun 1979	Final		Ju	11979	
	ARKS AND AIDS TO NAVIGA						
1. REP	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	. DATA BRANCH		REMARKS		
1		2/3/78	6 Aids fo	or charts			
1		2/3/78		rk for cha	arts		
				<u> </u>		<del></del> -	
	REPORT TO MARINE CHART REPORT TO AERONAUTICA						
	RAL RECORDS CENTER DAT		I, MERONAUTICAL	- DATA SECTION	UN. DATE	ORWANDED.	
2. [	BRIDGING PHOTOGRAPHS; CONTROL STATION IDENTI SQURCE DATA (except for G ACCOUNT FOR EXCEPTION	IFICATION CARDS; Geographic Names Re		:76-40suBMITT	TED BY FIEL	D PARTIES.	l
4 🗆	DATA TO FEDERAL RECO	ROS CENTER. DAT	re forwarded:				_
IV. SURY	EY EDITIONS (This section s			p edition is regi			
SECOND		(2) PH			REVISED		SURVEY
EDITION					Om. 0	IP CLASS	FINAL
	SURVEY NUMBER	JOB NUMBE		,	TYPE	OF SURVEY	SURVEY
EDITION		(3) PH		_	<u>M</u> A	IP CLASS	- FINAL
	SURVEY NUMBER	ЗОВ ИЦМВЕ	iR .			OF SURVEY	
FOURTH	DATE OF BHOTOGRAPI	(4) PH		 	REVISED	LIRES AP CLASS	ÜRVÉY
EDITION				□н. 1	□ □`î		□FINAL .



## 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.

6

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 umbalanced. 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: CPML

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 overtical 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. Strin 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

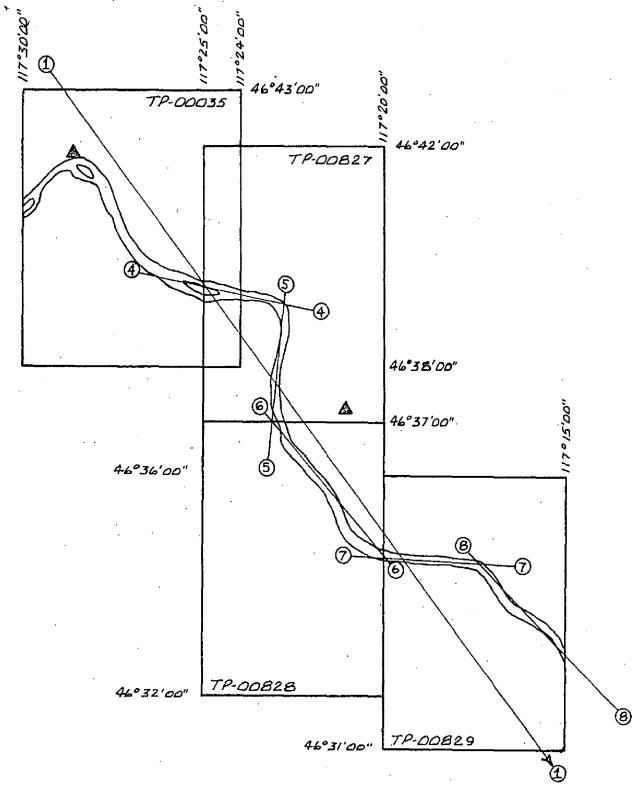
Photography was adequate as to overlap, definition, and coverage.

Submitted by:
Therefore L The Link

Approved by-

John D. Perrow, Jr.

Chief, Aerotriangulation Section



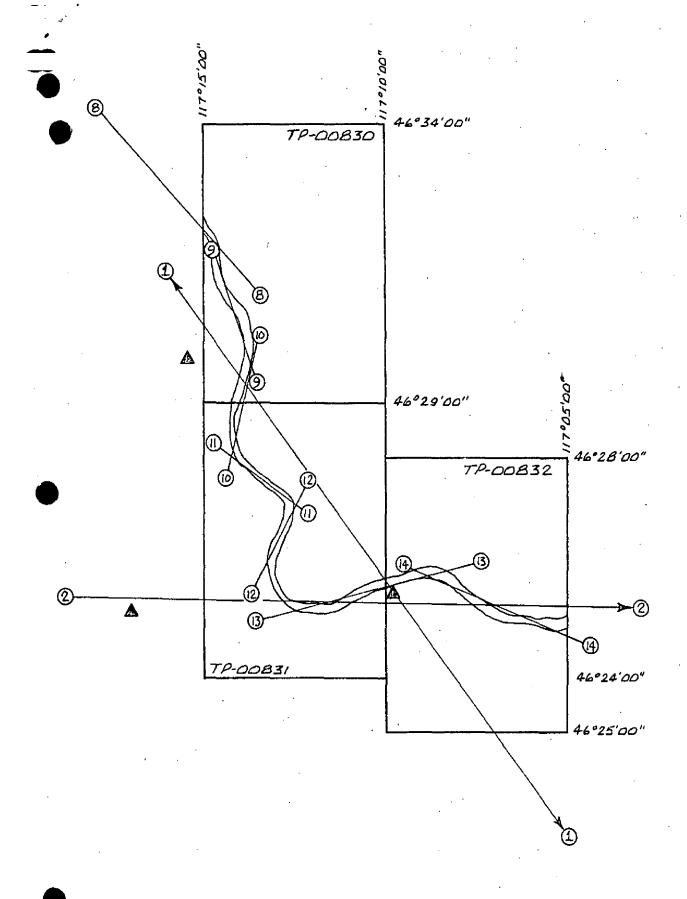
JOB CM-7408

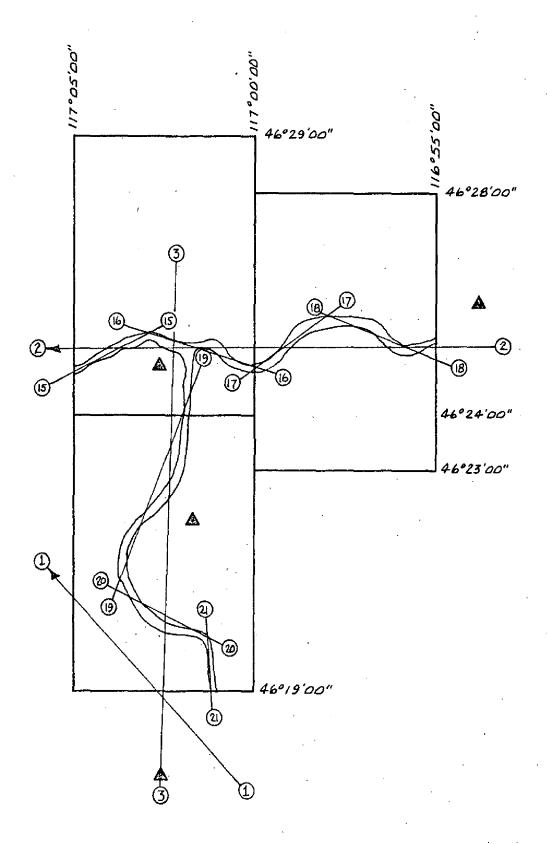
SNAKE RIVER

WASHINGTON - IDAHO

JANUARY, 1975

त्रासम्बद्धाः । । **१४ म्यास्यक्रम्यत्रास्य ।** 





NOAA FORM 76-41 (6-75)		NECCEIPTIV	COLDINE BEDOOT CONTROL BECOME	NATIONAL	U.S. DEPARTMENT OF COMMERCE OCEANIC AND ATMOSPHERIC ADMINISTRATION
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TP-00832	CM-7408	408	NA 1927	Coastal Mapi	Coastal Mapping Division, AMC Norfolk, VA 23510
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	اءا	GEOGRAPHIC POSITION  \$\phi \ LATITUDE  \$\lambda \ LONGITUDE	REMARKS
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CLARKSTON, 1945	P.C.Pg.239		585.47	γ	
			x= 2 857 149,31	<b>e</b>	
STOUT(USGS), 1945	P.C.Pg.239		y= 426 810.89	γ	
	00		x= 2 856 849.34	ф	
GLARKSION, TELEVISION STATION, KLEW MAST, 1959	P.C.WASH 1062		y= 428 377.51	γ	
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			=X	φ	
			η=	γ	
			-χ	ф	
			y=	γ	
			εχ	ф	
				~	
COMPUTED BY A. C. Rauck, Jr.		DATE 2/3/75	COMPUTATION CHECKED BY D. Bu	Butler	3/7/75
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	4 IS OBSOLETE.	].

#### COMPILATION REPORT

#### TP-00832

#### 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 the 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 the Wild B-8 stereoplotter and office interpretation of the photographs. See project 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 the Wild B-8 stereoplotter and by office interpretation of the photographs.

#### 36. OFFSHORE DETAILS

Critical features, such as rocks, boulders, knobs, and hilltops, thought to be dangers to navigation were compiled by the stereoplotter.

#### 37. LANDMARKS AND AIDS

This area not previously charted. The field editor is to provide positions of landmarks and aids to navigation.

#### TP-00832

#### 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 bridging was adequate for the model leveling process.

#### 46. COMPARISON WITH EXISTING MAPS

A comparison was made with U. S. Geological Survey Quadrangle Maps Silcott, Washington, Scale 1:24,000, dated 1971 and Clarkston, Washington-Idaho, 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

Cartographic Technician Date: Nov. 24, 1976

Approved:

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-00832

Camas Prairie (RR) Clarkston Heights < Dry Creek Snake River Wilma<sup>-</sup>

Approved by:

Charles E. Harrington Staff Geographer - C51x2

NOAA FORM 75-74 (7-75)			Ĺ	J.S. DEPARTMENT OF COMMERCE
(7-75)	РНО	TOGRAMMET	RIC OFFICE REVIEW	NATIONAL OCEAN SURVEY
	, , , ,		-00832	
1. PROJECTION AND GRIDS	12 TITLE			I d was used by
I. PROJECTION AND GRIDS	Z TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
JLB	JLB		JLB	JLB
CONTROL STATIONS			<u> </u>	
5. HORIZONTAL CONTROL STA	TIONS OF	6. RECOVERAB	LE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS
THIND-ONDER ON HIGHER A	CORACT	(Topographic	stations)	
JLB 8. BENCH MARKS	9. PLOTTING	E SHOET NA	JLB	NA
G BENCH MARKS	FIXES	P SEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT	TI. DETAIL POINTS
JLB	JI	3	JLB	NA
ALONGSHORE AREAS (Nautical	Chart Data		<u> </u>	
12. SHORELINE	13. LOW-WATER	LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
JB 16. AIDS TO NAVIGATION	NA		JLB	JLB
16. AIDS TO NAVIGATION	17. LANDMARK	.5	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
JLB	JLB		JLB	JLB
PHYSICAL FEATURES				
20. WATER FEATURES		21. NATURAL (	GROUND COVER	22. PLANETABLE CONTOURS
JLB		JLB		NA
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26 OTHER PHYSICAL FEATURES
JLB	JLB		JLB	JLB
CULTURAL FEATURES				
27. ROADS	28. BUILDINGS		29. RAILROADS	-30. OTHER CULTURAL FEATURES
JLB	JLB		JLB	JLB
BOUNDARIES 31. BOUNDARY LINES			32. PUBLIC LAND LINES	
37.4				
MISCELLANEOUS			NA.	<del></del>
33. GEOGRAPHIC NAMES		34. JUNCTIONS	<u> </u>	35. LEGIBILITY OF THE
JLB		JL	.R	JLB
36. DISCREPANCY OVERLAY	37. DESCRIPTI		38. FIELD INSPECTION	39. FORMS
		~	PHOTOGRAPHS	
JLB	JL	В	JLB	JLB
40. REVIEWER	•	~	SUPERVISOR, REVIEW SECTION	
Jan Hyrd	_		albut C.R.	
Jim Byrd	December	17, 1976	Albert C. Rauck	, Jr. /
41. REMARKS (See attached shee FIELD COMPLETION ADDITION	<del></del>	TIONS TO THE "	ANRISCOIDT	
42. Additions and corrections				to the manuscript. The manuscript
script is now complete exc	cept as noted und	der item 43.	•	4
COMPILER J. Roderick			SUPERVISOR CLEAT C.	(cuch fr.
Reviewer-J. By	rd 1/2	28/78	Albert C. Rauck	, Jr. /
43. REMARKS				
-Sec-Forms 76-3	60 Ltomo	land 8		
OCC-FORMS TO S	OC , ECCHO!			

#### 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.

#### 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.

#### 5. 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.

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 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.

#### 15. <u>Small Craft Facilities Investigation</u>:

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	-40	,	NAT	IONAL OCE	U.S	S. DEPARTM. Atmospheri	ENT OF COMMERCE	ORIGINATING ACTIVITY	CTIVITY
Replaces C&GS Form 567.	567.	EOR LAND	MARKS	FOR CHA	RTS		LANDMARKS FOR CHARTS	GEODETIC PARTY	<u> </u>
CALL DE CHAB	REPORTING UNIT	STATE		LOCALITY			DATE	_	× 1.2.
TO BE DELETED	Field Perry, Ship or Office) Coastal Mapping Div. A.M. C. Norfolk Va	Washington	gton	Snake Grani	Snake River Granite Dam	, Lower	Dec.197	CONTINUE REVIEW ORP.	
The following objects	HAVE A HAVE NOT	been inspected from seaward to determine their value as landmarks.	ward to de	termine thei	r value as	landmarks.		(See reverse for responsible personnel)	ible personnel)
OPR PROJECT	JOB NUMBER	KBER	DATUM	7591 A M	927				
*	CM-7408 TP-00832	832	,	POSITION	ION		METHOD AND DATE OF LOCATION (See Instructions on reverse elde)	CE OF LOCATION	CHARTS
	DESCRIPTION		LATITUDE	UDE.	LONGITUDE	rude			AFFECTED
CHARTING	(Record reason for defetion of landmark or aid to navigation. Show triangulation station names, where applicable, in perenthoses)	igation. n perentheses)	, ,	// D.M.Meters	/ 0	// D.P. Meters	OFFICE	FIELD	
TOWER	Power Line Tower on North		76 25	19.79	119 00	_/⊟}_		F-V-Vis.	
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NOAA FORM 76-40	-40			U.S. DEP.	U.S. DEPARTMENT OF COMMERCE	ORIGINATING ACTIVITY	CTIVITY
Replaces C&GS Form 567.	" NONFLOATING AIDS OR	OWARKS F	ETANDWARKS FOR CHARTS	TS AND AT MOS	PHERIC ADMINISTRATION	C HYDROGRAPHIC PARTY	ARTY
V TO BE CHARTED	Γ		LOCALITY		DATE	COMPLATION ACTIVITY	
TO BE REVISED	Coasta.		Snake Granite	River, Daman	Lower Dec.197		A REVIEW GRP.
The following objects	HAVE VA HAVE NOT   been inspected to	ward to dete	ermine their	15	27.ks.	COAST PILOT BRANCH  See reverse for responsible personnel	NCH Ibte personnet)
OPR PROJECT NO	JOB NUMBER SURVEY NUMBER	DATUM					
	CM-7408 TP-00832	,	N.A.1927	.927	METHOD AND DA	METHOD AND DATE OF LOCATION	
			POSITION	NC	(See Instruction	(See instructions on reverse side)	CHARTS
CHARTING	DESCRIPTION	LATITUDE		LONGITUDE			AFFECTED
NAME E	record reason for desertor or tandmark of aid to navigation. Show triangulation station names, where applicable, in parentheses)	, ,	D.M. Meters	O / D.P. Meters	eters Orr ICE	- E-C	
; ;	Lower Granite Reservoir		40.29	41	.64	. P-5-L	
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#### REVIEW REPORT TP-00832 CHART TOPOGRAPHY

June 4, 1979

#### 61. GENERAL STATEMENT:

See Summary, page 6 of this Descriptive Report.

#### 62. COMPARISON 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 this chart topography map will serve as the hydrography for the new chart to be constructed of this area.

#### 65. COMPARISON WITH NAUTICAL CHARTS:

This area was not previously charted. The maps of this project will serve as the basis for construction of the new chart.

#### 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:

a. L. Schande

A. L. Shands Final Reviewer

Approved for forwarding

Billy & Barnes

Chief, Photogrammetric Branch, AMC

Approved for A

Chief. Photogrammetric Branch

Chief, Photogrammetry Division

#### **RECORD OF APPLICATION TO CHARTS**

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP-00832

#### 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
18548	1-21-80	RaZillis	Full Part Before After Verification Review Inspection Signed Via
		01-23-60-RCs	Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
		·	Full Part Before After Verification Review Inspection Signed Via
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