NOAA FORM 76-35 (3-76)

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

DESCRIPTIVE REPORT

Map No.	Edition No.
TP-00828	1
Job No.	
CM-740	8
Map Classification FINAL	
Field Edited	! Map
Type of Survey	
CHART TOPOGRA	РНҮ
LOCALITY	(
State	
Washington	
General Locality Snake River	
Lower Granite Dam a	nd Reservoir
Locality	REDELYOLI
Granite Point	r
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DATE	

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

		
NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY TP. 00828
	ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS Final
	C) REVISED	јов Рн- <u>СМ-7408</u>
PHOTOGRAMMETRIC OFFICE	I ACT BOECES	NG MAP EDITION
Coastal Mapping Division, Atlantic Marine	TYPE OF SURVEY	JOB PH
Center, Norfolk, Virginia	O ORIGINAL	MAP CLASS
OFFICER-IN-CHARGE	A RESURVEY	SURVEY DATES:
	D REVISED	19TO 19
Jeffrey G. Carlen		
1. INSTRUCTIONS DATED		
1. OFFICE	2,	FIELD
Aerotriangulation 09/23/74	06/05/74	
Compilation 01/23/75		
Comptación 51/25/15		
	<u> </u>	
II. DATUMS	OTHER (Specify)	
1. HORIZONTAL: [X] 1927 NORTH AMERICAN	OTREN (Specify)	
	OTHER (Specify)	
MEAN HIGH-WATER MEAN LOW-WATER		
2. VERTICAL: MEAN LOWER LOW-WATER		
MEAN SEA LEVEL	National Geodetic	Vertical Datum, 1929
3. MAP PROJECTION		GRID(S)
	STATE	ZONE
Mercator - Central Parallel: 46°25'30"	Washington	South
1:10,000 at central parallel	STATE	ZONE
III. HISTORY OF OFFICE OPERATIONS	<u> </u>	<u> </u>
OPERATIONS	NAME	DATE
1. AEROTRIANGULATION BY	M. McGinlev	Jan 1975
METHOD: Wild STK-1 LANDMARKS AND AIDS BY	M. McGinley	Jun 1975
2. CONTROL AND BRIDGE POINTS PLOTTED BY	R. Robertson	Jan 1975
метнор: Calcomp снескео ву	R. Robertson	Jan 1975
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	J. Byrd	Apr 1976
COMPILATION CHECKED BY	L. Neterer, Jr.	Apr 1976
INSTRUMENT: Wild B-8 CONTOURS BY	J. Byrd	Apr 1976
SCALE: 1:5,000 CHECKED BY	L. Neterer, Jr.	Apr 1976
4. MANUSCRIPT DELINEATION PLANIMETRY BY	D. Butler	Jul 1976 Aug 1976
CHECKED BY CONTOURS BY	J. Byrd D. Butler	Jul 1976
METHOD: Smooth drafted CHECKED BY	J. Byrd	Aug 1976
4 10 003 at HYDRO SUPPORT DATA BY	NA NA	
scale: 1:10,000 at HYDRO SUPPORT DATA BY central parallel CHECKED BY	NA _	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	J. Byrd	Aug 1976
6. APPLICATION OF FIELD EDIT DATA	D. Butler	Nov 1977
CHECKED BY	C. Blood	Jan 1978
7. COMPILATION SECTION REVIEW BY	C. Blood	Jan 1978
8. FINAL REVIEW SY	A. L. Shands	May 1979
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	A. L. Shands	Jul 1979 V
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY 11. MAP REGISTERED - COASTAL SURVEY SECTION BY	E. L. Rolle E. L. DAUGHERTY	1014 1979 Nov 1979

NOAA FORM 76-368 3-72)		TP-00820		NAT	'IONAL OCEAN SURVE'
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. COMPILATION PHOTOGRAPHY		. — . — .			
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REFERENCE STATION RECOR		(I) INFRARE		MERIDIAN	DAYLIGH.
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2. SOURCE OF MEAN HIGH-WATE The sou	R LINE: rce of the poor aphy. ROR MEAN LOWER LO	OW-WATERLINE:	e (elev. 738	ft.) is the	above listed co
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NOAA FORM 76-36C (3-72)	TP-00828 HISTORY OF FIELD		NIC AND ATMOSPHERI	ENT OF COMMERCE C ADMINISTRATION AL OCEAN SURVEY
I. X FIELD INSPECTION OF	PERATION FIELD	EDIT OPERATION		
	PERATION	N	IAME	DATE
. CHIEF OF FIELD PARTY		R. B. Me	lby	Sep-Dec 1974
	RECOVERED BY	None		
2. HORIZONTAL CONTROL	ESTABLISHED BY	None		
	PRE-MARKED OR IDENTIFIED BY	<u>None</u>		\
	RECOVERED BY	R. B. Me	•	Sep-Dec '74
3. VERTICAL CONTROL	ESTABLISHED BY	R: B. Me		Sep-Dec 17
	PRE-MARKED OR IDENTIFIED BY	R. B. Me	lby	Sep-Dec '7
	RECOVERED (Triangulation Stations) BY	None		
4. LANDMARKS AND AIDS TO NAVIGATION	LOCATED (Field Methods) BY	None		
	TYPE OF INVESTIGATION	<u>None</u>		-
	X COMPLETE			
5. GEOGRAPHIC NAMES INVESTIGATION	SPECIFIC NAMES ONLY			-
	NO INVESTIGATION	D D W-	11	Jan 1975
A DUETO MADECTION		R. B. Me	1D <u>V</u>	Jan 1973
6. PHOTO INSPECTION 7. BOUNDARIES AND LIMITS	CLARIFICATION OF DETAILS BY	None		
II. SOURCE DATA	SURVEYED OR IDENTIFIED BY	LNA		<u> </u>
1. HORIZONTAL CONTROL I	DENTIFIED	2. VERTICAL CON	TROL IDENTIFIED	
None				
PHOTO NUMBER	STATION: NAME	PHOTO NUMBER	STATION DE	SI GN A TLON
PHOTO NOMBER	31 A TION WAME			310117 11011
		74E(C)5781	V27-14	. 02
		74E(C)5782	V28-01, V28 V28-03	5-02
		74E(C)5784 74E(C)5785	V28-04, B.N	r. xvp407
		74E(C)5786	V28-05, V28	
3. PHOTO NUMBERS (Clerific	ation of details)			
None	2			
4. LANDMARKS AND AIDS TO	NAVIGATION IDENTIFIED			
None				
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT	NAME
5. GEOGRAPHIC NAMES:	X REPORT NONE	6. BOUNDARY AND	D LIMITS: REPO	.pr [X]ev-
7. SUPPLEMENTAL MAPS AN		O. DOGRDANI ANI	Zimi 3. NEPO	RT X NONE
None				
8. OTHER FIELD RECORDS	Sketch books, etc. DO NOT list data submit	ted to the Geodesy Di	ivision)	
None				

NOAA FORM 76_36C (3-72)	TP-0082 HISTORY OF FIELD	8	U. S. DEPARTMENT OF COMMERCE ID ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY
I. [] FIELD INSPECTION	ON OPERATION X FIEL	D EDIT OPERATION	
	OPERATION	NAME	DATE
I. CHIEF OF FIELD PA	RTY		
	RECOVERED BY	R. B. Melby R. B. Melby	• • • • • • • • • • • • • • • • • • •
2. HORIZONTAL CONT		None None	2/17
	PRE-MARKED OR IDENTIFIED BY	None	
	RECOVERED BY	None	
3. VERTICAL CONTROL	ESTABLISHED BY	None	
· · · · · · · · · · · · · · · · · · ·	PRE-MARKED OR IDENTIFIED BY	None	
	RECOVERED (Triangulation Stations) BY	None	
4. LANDMARKS AND AIDS TO NAVIGATIO	LOCATED (Field Methods) BY	R. B. Melby	
	1DENTIFIED BY	R. B. Melby	9/77
	TYPE OF INVESTIGATION	1	
5. GEOGRAPHIC NAMES INVESTIGATION	BY		
11172311041104	SPECIFIC NAMES ONLY X NO INVESTIGATION	İ	
		R. B. Melby	9/77
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	N'one	2,11
7. BOUNDARIES AND L	IMITS SURVEYED OR IDENTIFIED BY	Wolle	·
1. HORIZONTAL CONT	ROL IDENTIFIED	2. VERTICAL CONTROL	IDENTIFIED
None		N one	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
3. PHOTO NUMBERS (C	larification of details)		
ţ	√75-6-78 thru ₩75-6-85		
4. LANDMARKS AND AI	DS TO NAVIGATION IDENTIFIED		
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
W75-6-81 Lo	wer Granite Reservoir Light 10		
5. GEOGRAPHIC NAME: 7. SUPPLEMENTAL MA		6. BOUNDARY AND LIMI	TS: REPORT X NONE
7. SUFFLEMENTAL MA	FS OND PLANS		
None			
1 film ozalid	report w/76-40 forms, BISHOP & KIRBY, WASH. Quads	submitted from f	ield

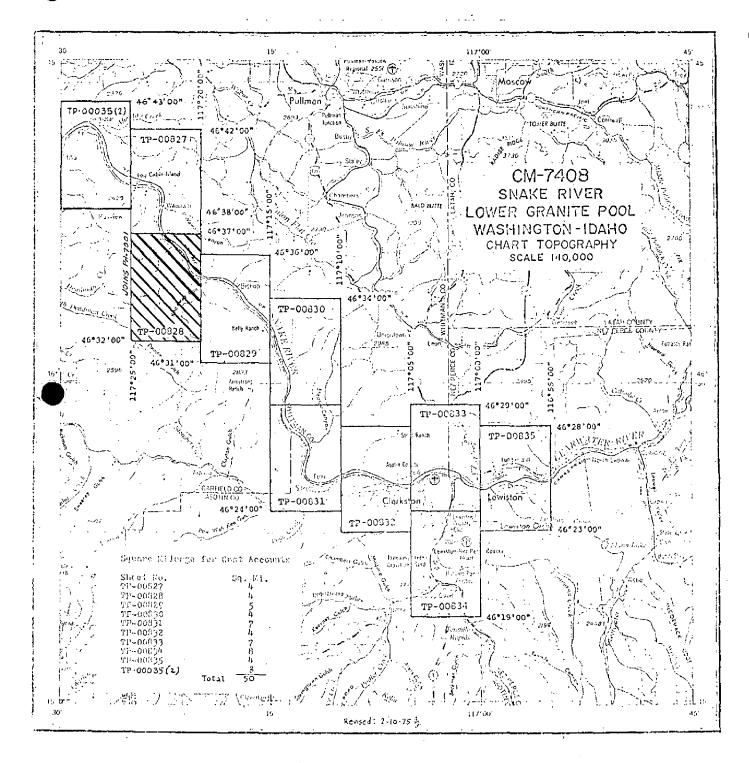
NOAA FORM 76-36D

(3-72)

U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION TP-00828

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I. MANUSCRI	PT COPIES								
	co	MPIL	TION STAGE	s			DATEMANU	USCRIE	T FORWARDED
DA	TA COMPILED	<u> </u>	DATE	RE	MARKS		MARINE CHA	RTS	HYDRO SUPPORT
	ion complete field edit		7/76	Class III	manusci	ipt	4/4/77		Field Edit 4/4/77
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Final Re	view	ļ 	5/79	Final_			July 197	79	
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NUMBER	CHART LETTER NUMBER ASSIGNED	FC	DATE RWARDED			REM	ARKS		
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IV. SURVEY	EDITIONS (This section s	hell b	JOB NUMBE		edition is re) TYPE OF SUR		
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EDITION	SURVEY NUMBER		JOB NUMBE		□n.	□m.]v.	FINAL
THIRD	TP -	(3)	PH	 		REV			JRVEY
EDITION	DATE OF PHOTOGRAPI		DATEOFFI	ELD EDIT	□ 0-	 []	MAP CLASS		FINAL
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EDITION	DATE OF PHOTOGRAPI	44	DATE OF FI	ELD EDIT	п		MAP CLAS		





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 745 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: 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 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 nine 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. 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 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.

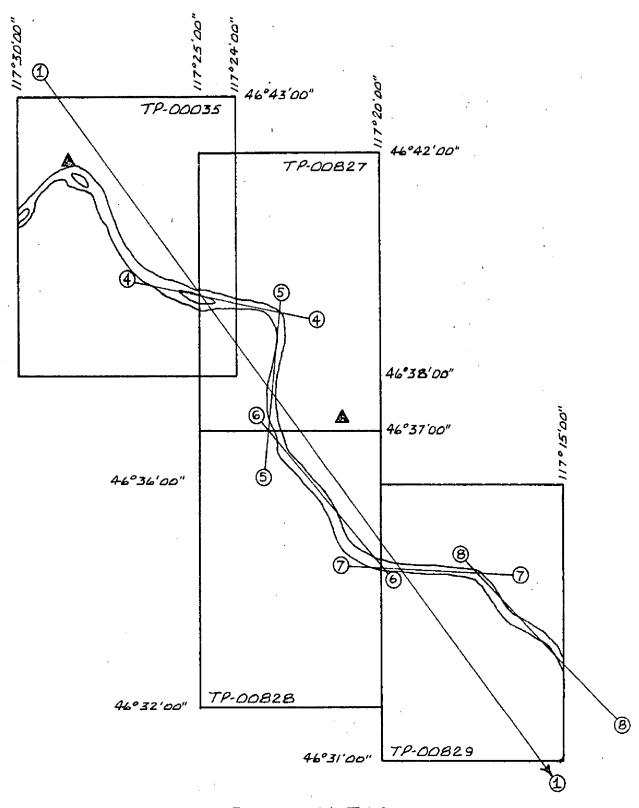
Submitted by:

Michael L. McGinle

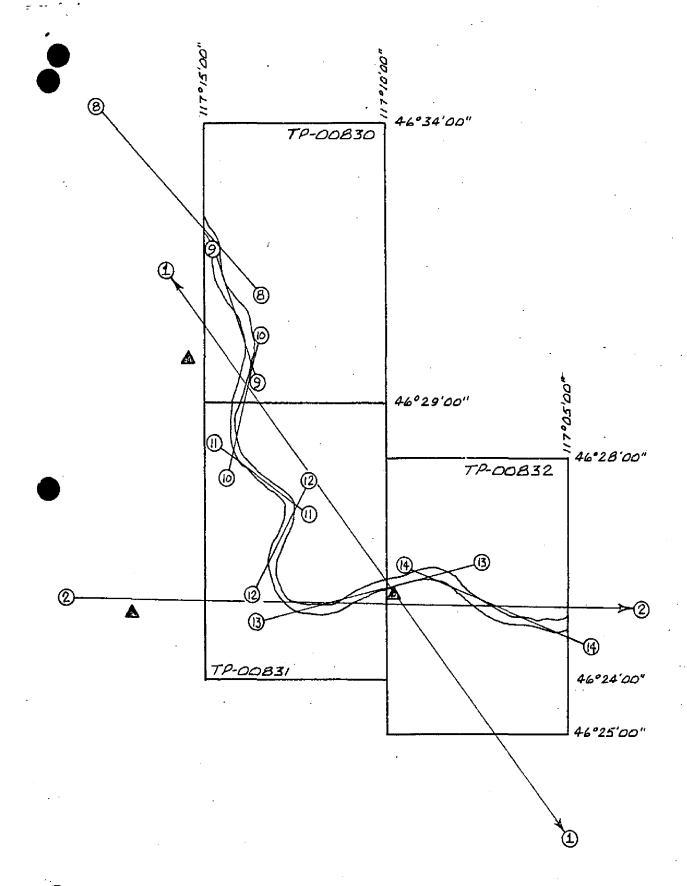
pproved by:

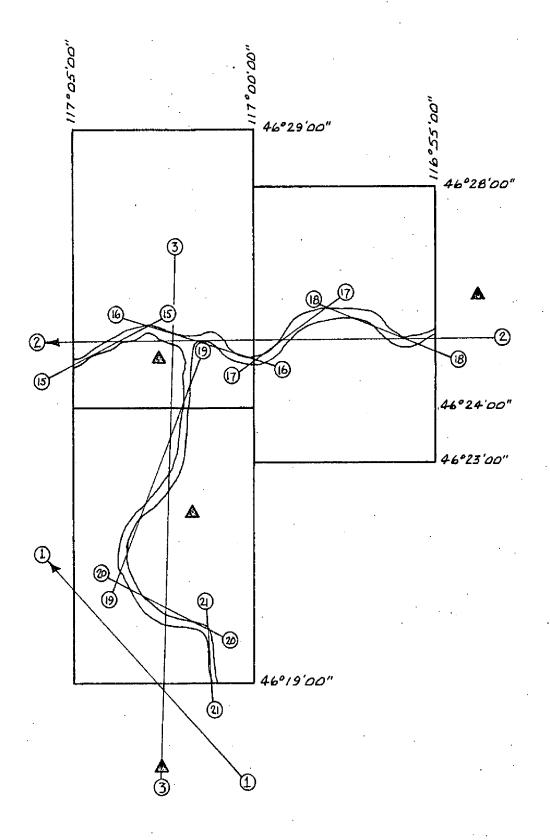
John D. Perrow. Jr.

Chief, Aerotriangulation Section



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





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NOAA FORM 76-41 (6-75)				NATIONAL OCEANIC	U.S. DEPARTMENT OF COMMERCE AND ATMOSPHERIC ADMINISTRATION
		DESCRIPTIV	CRIPTIVE REPORT CONTROL RECORD		
MAP NO.	ON BOL		GEODETIC DATUM	ORIGINATING ACTIV	Manning Division
TP-00828	CM-7408)8	NA 1927	Norfolk	Norfolk, Virginia 23510
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET STATE WAShington ZONE South	GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE	REMARKS
			x = 2777 840.98	1 1	
BOUNDS, 1946	P.C. pg.224		y≈ 470 071.75	γ	
			x= 2777 855.80	ф	
TRAM, 1945	P\$GC.pg.225		y= 479 343.11	γ	
IOWER CRANITE DESERVOID			<i>=</i> χ	φ 46 36 04 . 547	
8, 1977	Field Posit		=ĥ	λ 117 21 37.327	
LOWER GRANITE RESERVOIR			-χ	φ 46 36 15.522	
LIGHT 9, 1977	Field Posit.		ij≈	λ 117 21 31.437	
			=X	ф	
			y=	γ	
			χ=	φ	
			=ĥ	γ	
			zχ	-φ-	
			y=	γ	
			=X	φ	
			<i>y=</i>	γ	
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			<i>y</i> =	γ	
			=χ	ф	
			=ħ	- ~	
COMPUTED BY A. C. Rauck, Jr.		DATE 2/3/75	COMPUTATION CHECKED BY D.	. Butler	DATE 3/7/75
LISTED BY		DATE	LISTING CHECKED BY		DATE
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE
	1.	SUPERSEDES NO	SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE	H IS OBSOLETE.	

COMPILATION REPORT

TP-00828

31. DELINEATION

Delineation was by the Wild B-8 stereoplotter. Additional culture, not shown on the U.S. Quadrangle Maps, was selected and compiled within the area of the proposed new chart limits.

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 and using 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. elevation (NGVD) and details alongshore were delineated by office interpretation of the photographs.

36. OFFSHORE DETAILS

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

37. LANDMARKS AND AIDS

No charted landmarks or aids existed at the time of compilation. Positions are to be determined during field edit.

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:

Kirby, Washington scale 1:24,000, dated 1964 Bishop, Washington scale 1:24,000, dated 1964

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 Butler Cartographic Aid

Approved:

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section

albert C. Ranck Jr.

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7408 (Snake River, Lower Granite Dam to Asotin, Washington, Idaho) TP-00828

Camas Prairie (RR)

Castle Rock .

Granite Point ~

Kluge Canyon 1

Knoxway Canyon ~

Snake River 1

Approved by:

Charles E. Harrington Staff Geographer - C51x2

NOAA FORM 75-74				U.S. DEPARTMENT OF COMMERCE
, [17~75]	PHOT	TOCRANUET	RIC OFFICE REVIEW	NATIONAL OCEAH SURVEY
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	·	1.5	_ 1-00020	
1. PROJECTION AND GRIDS	2 TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
	ļ			
10	СВ		СВ	JВ
CONTROL STATIONS	1 <u>UD</u>		L	
5. HORIZONTAL CONTROL ST	TIONS OF	A. RECOVERSE	LE HORIZONTAL STATIONS	7. PHOTO HYDRO STATIONS
THIRD-ORDER OR HIGHER A	CCURACY	OF LESS TH	ILE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY AND MANUELLE	Υ
C.P.			СВ	NA .
8, BENCH MARKS	19. PLOTTING O	FSEXTANT		II. DETAIL POINTS
	FIXES		10. PHOTOGRAMMETRIC PLOT REPORT	
	j	•	JB	NA **
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ALONGSHORE AREAS (Neutical				
12. SHORELINE	13. LOW-WATER	LING	14. ROCKS, SHOALS, ETC.	15. BRIOGES
			CP	JB
CB	NA	··-	CB	
16. AIDS TO NAVIGATION	17. LANDMARKS	•	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
		•		ЈВ
CB	JB		JB	JB
PHYSICAL FEATURES				•
20. WATER FEATURES		21. NATURAL	SHOUND COVER	22. PLANETABLE CONTOURS
	·			374
. JB	1.	-	NA	NA
23. STEREOSCOPIC	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	24 OTHER PHYSICAL FEATURES
INSTRUMENT CONTOURS				FEATURES
JB	JB	•	f јв	СВ
CULTURAL FEATURES			<u> </u>	·
27. ROADS	28, BUILDINGS		29. RAILROADS	30. OTHER CULTURAL
· ·				FEATURES
JB	JB		JВ	JB .
BOUNDARIES	1	·· ······		
31. BOUNDARY LINES			32. PUBLIC LAND LINES	
· NA			N	Α
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MISCELLANEOUS 33. GEOGRAPHIC NAMES	1	34. JUNCTIONS		35. LEGIBILITY OF THE
	j			MANUSCRIPT
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36. DISCREPANCY OVERLAY	37. DESCRIPTIV	F REPORT	38. FIELD INSPECTION	39. FORMS
			PHOTOGRAPHS	
		. •	***	JВ
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J. Byrd	August 1	976	Albert C. Rauck,	Jr.
41. REMARKS (See attached shee				
FIELD COMPLETION ADDITION				
42. Additions and corrections script is now complete exc	fumished by the ept as noted und	field completi er item 43.	on survey have been applied	d to the manuscript. The manu-
COMPILER TRATO.		11/28/77	ISUPERVISOR L	, ho
Reviewer:	~		allest CK	anon-p
C. Blood C. Bloom	<i>(</i>)	Jan 1978	Albert C. RAuck,	Jr. *
43. REMARKS				
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Neplaces Cados Form 307		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NONFLOATING AIDS-OR-E-ANDRARKS FOR CHARTS	NA NOWARKS	FOR CHA	U.S. DEPAR INIC AND ATMOSPI	TMENT OF COMMERCE	ORIGINATING ACTIVITY MAYDROGRAPHIC PARTY GEODETIC PARTY	ARTY
TO BE DELETED	REPORTING	omee) STATE SPATE Oping Div Washi	vre Washington	Shake Ri Granite	River, Lor te Dam and	Lower Nov.197	18 <u>0</u> 000	TTY FIVITY LAREVIE INCH
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			,	N.A.1927			METHOD AND DATE OF LOCATION	<u>, -</u> .
	201	11 -00828		POSITION	No.	(See instruction	(See instructions on reverse side)	CHART
CHARTING (Re	DESCRIPTION (Record reason for deletion of landmark or aid to navigation.	IIPTION Indmark or aid to navigation.	•	LATITUDE //	LONGITUDE "	OFFICE	FIELD	AFFECTED
ヿ	ow triangulation station name	Show triangulation station names, where applicable, in parentheses	,	D.M. Mcters	D.P. Meters	173		
LIGHT (Lower Granite Re Light 8,1977	Reservoir $)$	46 36	04.547	117 21 794.2	201	F-2-6-L Aug.25,1977	
) right	Lower Granite Re Light 9,1977	Reservoir)	46 36	15.522	117 21 668.9	E 0	= =	
LIGHT	Lower Granite Light 10	Reservoir (PA)	46 34	48.67	117 20 56	m	P-5-L Aug.26,1977	
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FIELD EDIT REPORT

Project CM-7408

Lower Granite Reservoir, Snake River Idaho, Washington

September 1977

2. Areal Field Inspection:

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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. 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

REVIEW REPORT TP-00828 CHART TOPOGRAPHY

May 18, 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:

Contour lines and spot elevations on this chart topography map will serve as the hydrography for this area on the new chart.

65. COMPARISON WITH NAUTICAL CHARTS:

The maps of this project (CM-7408) will serve as the basis for the new chart which is to cover this area. That chart is not in publication at this writing.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map was compiled in accordance with the project instructions. The method used to delineate items recommended for charting by the field editor is neither recommended nor forbidden in the instructions. See Summary, page 6 of this Descriptive Report.

Submitted by:

Q.L. Shands

A. L. Shands Final Reviewer

Approved for forwarding:

Billy H. Barner

Chief, Photogrammetric Branch, AMC

Approved:/

Chief. Photogrammetric Breach

Chief, Photogrammetry Division

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP-00828

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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