TP 00829

NOAA FORM 76-35 (3-76)					
U.S. DEPARTMENT OF COMMERCÉ National Oceanic and Atmospheric administration					
NATIONAL OCEAN C AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY					
DESCRIPTIVE	RFPORT				
DECOMM 114E	ILI OILI				
Map No.	Edition No.				
TP=00829 Job No.	1				
CM-7408					
Map Classification Final					
Field Edited Map					
Type of Survey					
CHART TOPOGRAPHY					
LOCALITY					
State					
Washington					
General Locality Snake River					
Lower Granite Dam	and Reservoir				
Locality					
Keith Can	yon				
1074 TO 1077					
1974 TO 1977					
REGISTRY IN AR	CHIVES				
DATE					

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

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMER (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADI	CE TYPE OF SURVEY S	URVEY TP. 00829
	<u> </u>	IAP EDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY A	MAP CLASS Final
	D REVISED J	ов Рн. <u>СМ-7408</u>
PHOTOGRAMMETRIC OFFICE	LAST PRECEEDING	MAD EDITION
		OB PH
Coastal Mapping Division, Norfolk, VA	_ ·	IAP CLASS
OFFICER-IN-CHARGE	T I I	URVEY DATES:
	1 = 1	9 TO 19
Jeffrey G. Carlen		· · · · ·
I. INSTRUCTIONS DATED		
1. OFFICE	2. FIE	LD
0.400.47	7 5 4071	
Aerotriangulation 9/23/74	June 5, 1974	
Compilation 1/23/75		
		•
II. DATUMS		
	OTHER (Specify)	
I. HORIZONTAL: X 1927 NORTH-AMERICAN		
☐ MEAN HIGH-WATER	OTHER (Specify)	
2. VERTICAL:	National Geodet:	ic Vertical
MEAN LOWER LOW-WATER	Datum, 1929	·
3. MAP PROJECTION		
	4. GRI	D(S)
Mercator - Central Parallel: 46°25'30"	Washington	South
5. SCALE		ONE
1:10.000 at central paralle	}	
III. HISTORY OF OFFICE OPERATIONS		
OPE RATIONS	NAME	DATE
1. AEROTRIANGULATION	M. McGinley	1/31/75
METHOD: Wild STK-1 LANDMARKS AND AIDS	M. McGinley	1/31/75
2. CONTROL AND BRIDGE POINTS PLOTTED	**** **********************************	1/75
METHOD: Calcomp CHECKED	R. KODELCSOIL	1/75
3. STEREOSCOPIC INSTRUMENT PLANIMETRY		Apr-Jul '76
COMPILATION CHECKED		ton Apr-Jul 176
INSTRUMENT: Wild B-8 CONTOURS		Apr-Jul '76 ton Apr-Jul '76
scale: 1:5,000 CHECKED 4. MANUSCRIPT DELINEATION PLANIMETRY		7/76
CHECKED		8/76
CONTOURS		7/76
метноо: Smooth drafted снескер		
scale: 1:10,000 at checked		
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	J. Byrd	8/76
6. APPLICATION OF FIELD EDIT DATA	D. Butler	12/77
CHECKED	- ,	1/78
7. COMPILATION SECTION REVIEW	ov C. Blood	{ 1/78
G =		- 1
	A. L. Shands	5/79
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH		5/79 7/79 7/79

NOAA (3-72)	FORM	76-36B

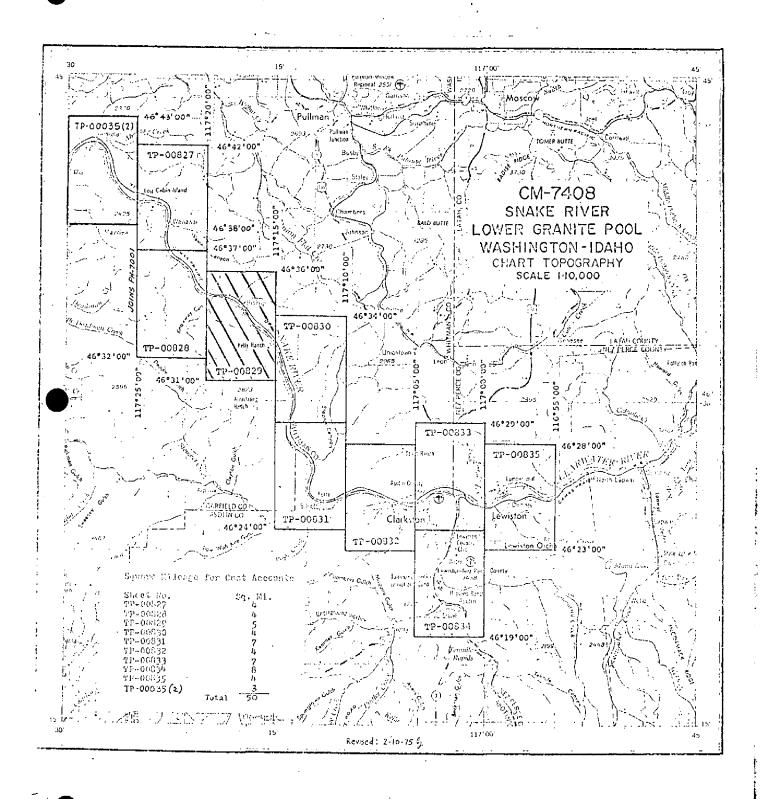
U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

. COMPILATION PHOTOGRAPHY						
CAMERA(S)	and ''W''		PHOTOGRAPHY GEND		TIME REI	FERENCE
IDE STAGE REFERENCE				ZONE		
PREDICTED TIDES		(C) COLOR		Pac		XSTANDAR
REFERENCE STATION RECORDS	- Table 1	(P) PANCHEC	/ 100	MERIC	8th	
TIDE CONTROLLED PHOTOGRAF	Н	(I) INFRARE	D		120th	DAYLIGH
NUMBER AND TYPE	DATE	TIME	SCALE		STAGE	OF TIDE
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134NEER 35671 - 2614 King	4110171	10.10	1.10.00			
74E(C) 5792 - 5800	6/13/74	12:10	1:10,00		NOTE: T	ides are no
74E(C) 5805 - 5809	6/13/74	12:15	1:10,00		applicab	le to this
74E(C) 5786 - 5787	6/13/74	12:01	1:10,00		project.	
*W75 6(P) 86-100	4/21/75	12:01	1:12,00	0	project.	
EMARKS	Section 1				175	
*Used only for	r application	of field e	edit items.	Corps	of Engine	ers photos.
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The above source of Mean Low-Water of Contemporary Hydrographi	source of the ve listed phonon of the very series o	W-WATER LINE: icable to the state of the sta	his project	or photogram	mmetric surve	y information.)
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NUAA FORM 78-36C (3-72)		TP- 0082 History of Field	9	NIG AND ATMOSPHERIC	ENT OF COMMERCE C administration al ocean survey
I. TIELD INSPECT	TION OPER	ATION FIEL	D EDIT OPERATION		
		RATION	N	NAME	DATE
1. CHIEF OF FIELD F	PARTY		D D W-11		
***************************************		RECOVERED BY	R. B. Melb	<u>y</u>	Sep-Dec 17
2. HORIZONTAL CON	TROL	ESTABLISHED BY	None		
		PRE-MARKED OR IDENTIFIED BY	None		
		RECOVERED BY	R. B. Melb	У	Sep-Dec'7
3. VERTICAL CONTR	OL	ESTABLISHED BY	R. B. Melb	<u>y</u>	
		PRE-MARKED OR IDENTIFIED BY	R. B. Melb	<u> </u>	
	RE	COVERED (Triangulation Stations) BY	None		ļ
 LANDMARKS AND AIDS TO NAVIGAT. 	ION	LOCATED (Field Methods) BY	None		ļ
		TYPE OF INVESTIGATION	None		-
5 CEACDADUIC NAM		X COMPLETE			
GEOGRAPHIC NAM INVESTIGATION	ES	SPECIFIC NAMES ONLY			
		NO INVESTIGATION	R. B. Melb	١v	Jan 1975
6. PHOTO INSPECTIO	N	CLARIFICATION OF DETAILS BY	None	<u> </u>	Jan 1772
7. BOUNDARIES AND		SURVEYED OR IDENTIFIED BY	NA		<u> </u>
II. SOURCE DATA					
I. HORIZONTAL CON	TROL IDE	NTIFIED	2. VERTICAL CON	TROL IDENTIFIED	
<u>Non</u>	e				
PHOTO NUMBER	<u> </u>	STATION NAME	PHOTO NUMBER	STATION DES	
		,	74E(C)5807	B.M.ZCP,415,	V29-01, V29-0
[74E(C)5810	V29-04,V29-0	05, V29-06
			74E(C)5800	V29-03	.0
i			74E(C)5795	V29-07,V29-0	18
			74E(C)5842	V29–10	
3. PHOTO NUMBERS	(Clarification	on of details)			
No	ne				
4. LANDMARKS AND	AIDS TO N	AVIGATION IDENTIFIED			_
No	ne				
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER	OBJECT	NAME
5. GEOGRAPHIC NAM 7. SUPPLEMENTAL N		X REPORT NONE	6. BOUNDARY AN	D LIMITS: REPO	RT X NONE
None					
	CORDS (Ske	tch books, etc. 90 NOT list data submi	tted to the Geodesy D	lvision)	
None					

10AA FORM 76-36C 3-72)				NIC AND ATMOSPHER	
		TP- 0081 HISTORY OF FIELD		NATION	IAL OCEAN SURVE
I. TIELD INSPE	CTION OPERA	TION X [X] FLE	LD EDIT OPERATION		
	OPE	RATION		NAME	DATE
I, CHIEF OF FIELD	PARTY		R. B. Melb	37	9/77
		RECOVERED BY	NT	,	+ - /
2. HORIZONTAL CO	ONTROL	ESTABLISHED BY	None		
		PRE-MARKED OR IDENTIFIED BY	None		
	_	RECOVERED BY			
. VERTICAL CONT	TROL	ESTABLISHED BY			<u> </u>
		PRE-MARKED OR IDENTIFIED BY			
•		COVERED (Triangulation Stations) BY	None None		
LANDMARKS AND AIDS TO NAVIGA		LOCATED (Field Methods) BY	D B Moll		0/77
	·	TYPE OF INVESTIGATION	R. D. Meli	, y	9/77_
, GEOGRAPHIC NA	MES	COMPLETE	1		
INVESTIGATION		X SPECIFIC NAMES ONLY	R.B. Mell	٥٩	9/77
		NO INVESTIGATION			
. PHOTO INSPECT	TION	CLARIFICATION OF DETAILS BY	R. B. Mell	ру	9/77
BOUNDARIES AN	ID LIMITS	SURVEYED OR IDENTIFIED BY	. None		
SOURCE DATA			T		
, HORIZONTAL CO	•	TIFIED	2. VERTICAL CO	NTROL IDENTIFIED	
None	<u> </u>		None		
PHOTO NUMBER	<u> </u>	STATION NAME	PHOTO NUMBER	STATION DE	SIGNATION
					-
3. PHOTO NUMBER	S (Clasification	n of details)			
	•	•	5 400		
	W75 6(P	<u>86, 87, 89, 91, 93, 9</u>	5, 100		
I. LANDMARKS AN	D AIDS TO NA	VIGATION IDENTIFIED			
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER	OBJECT	NAME
W75-6(P)87 W75-6(P)95		ranite Reservoir Light: ranite Reservoir Light:			
i. GEOGRAPHIC N	AMES: [REPORT X NONE	6. BOUNDARY AN	D LIMITS: REPO	RT X NONE
. SUPPLEMENTAL	MAPS AND P	LANS			
None					
	FCABCA (**	DA MAT			
		ch books, etc. DO NOT list data subm 76-40 Form	nitted to the Geodesy D	ivision)	
Field edit Field edit	1-1-1	(Film)	, , , , , , , , , , , , , , , , , , , ,	with Congraphi	c Names Rep
Geographi	c Names R	eport; BISHOP, WASH. Q	uad submitted	MICH GEORISPHI	<u> </u>

						4
NOAA FORI (3-72)	76-36D		TP-0082		U. S. DEPARTMENT AND ATMOSPHERIC	NT OF COMMERCE Administration
		RECO	ORD OF SURVE	Y USE		
I. MANUSCI	RIPT COPIES					
	со	MPILATION STAG	ES		DATE MANUSCRI	PT FORWARDED
	ATA COMPILED	DATE	RE	MARKS	MARINE CHARTS	HYDRO SUPPORT
-	ation complete g field edit	July 1976		l Manuscript uperseded	4/4/77	Field Edit 4/4/77
	edit applied, ation complete	Dec 1977	Class I h	Manuscript	2/2/78	
Fina1	Review	May 1979	Final		Jul 1979	
II. LANDMA	ARKS AND AIDS TO NAVIGA	TION	_			
), REPO	RTS TO MARINE CHART D	VISION, NAUTICA	L DATA BRANCH			
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED		Re	MARKS	·
1.		2/3/78	2 Ai	ids for char	s	
		 		<u> </u>		
ĺ						
3. 📑 F	EPORT TO MARINE CHART	L CHART DIVISIO				3 <u>, 1978</u>
III. FEDER	AL RECORDS CENTER DAT	TA				
	BRIDGING PHOTOGRAPHS; CONTROL STATION IDENTI			/ <u>N_41</u> /		
3. 🗓	SOURCE DATA (except for G ACCOUNT FOR EXCEPTION	eographic Names F	_			
4 🗆	DATA TO FEDERAL RECO	RDS CENTER. DA	TE FORWARDED:			-
IV. SURVE	Y EDITIONS (This section s			p edition is register		
eeceup.	SURVEY NUMBER	(2) PH	ER		TYPE OF SURVEY	SURVEY
SECOND EDITION	DATE OF PHOTOGRAPH		FIELD EDIT		MAP CLASS	,ORVE) .
				J = 0 n. = 0 n	i. 🗆 iv. 🗀 v.	FINAL
- 1112	SURVEY NUMBER	JOB NUMB	ER		TYPE OF SURVEY	
THIRD EDITION	DATE OF PHOTOGRAPH	(3) PH-	TIELD EDIT	l L	EVISED RES	IURVEY
					_	□ FINAL
	SURVEY NUMBER	JOB NUMB	ER		TYPE OF SURVEY	
FOURTH	TP	_ (4) PH	FIELD EDIT	l Lla	EVISED RES	ÜRVĖY
EDITION	DA. L OF FIGURAPI	" "	ALL CUIT	l	MAP CLASS	_



SUMMARY TO ACCOMPANY MAPS TP-00035(2) AND TP-00827 THROUGH TP-00835

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

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

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

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

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

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

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

Project CM-7408

Map Manuscripts T-00827 through TP-00835

September - December 1974

FIELD INSPECTION REPORT

Project CM-7408

Map Manuscripts T-00827 through TP-00835

September - December 1974

General

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

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

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

Horizontal Control

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

Vertical Control

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

Critical Features

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

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

Leveling

The elevations of the preselected photo-elevation points were determined by trigonometric leveling, utilizing the Wild T-1 and T-2 theodolites. Where the terrain or distances involved were not conducive to trigleveling with the theodolite and stadio rod, the distances were measured with a RANGER III, Laser, distance measuring instrument. Two distances to each vertical point were observed, and non-reciprocal vertical angles were measured with a Wild T-2 theodolite, 2 D/R with a 10-second rejection limit. The distances were recorded in the field record book in meters to 3 decimal places. Fressure 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

CPML cc:

PHOTOGRAMMETRIC PLOT REPORT

Job CM-7408

Shake River

Lower Granite Pool

Washington-Idaho

January 1975

21. Area Covered

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

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

22. Method

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

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

8

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

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

23. Adequacy of Control

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

24. Supplemental Data

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

25. Photography

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

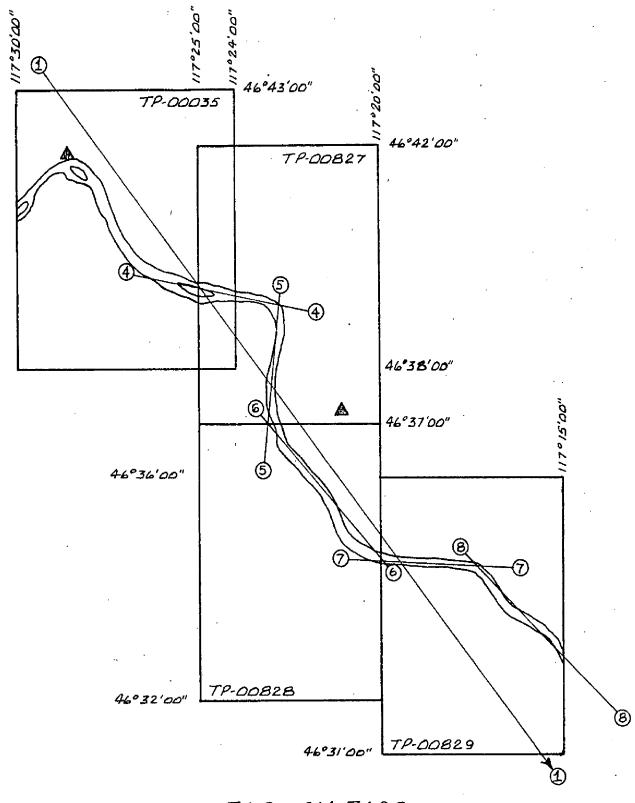
Submitted by:

Michael L. McGinley

Who Loved pr

John D. Perrow, Jr.

Chief, Aerotriangulation Section

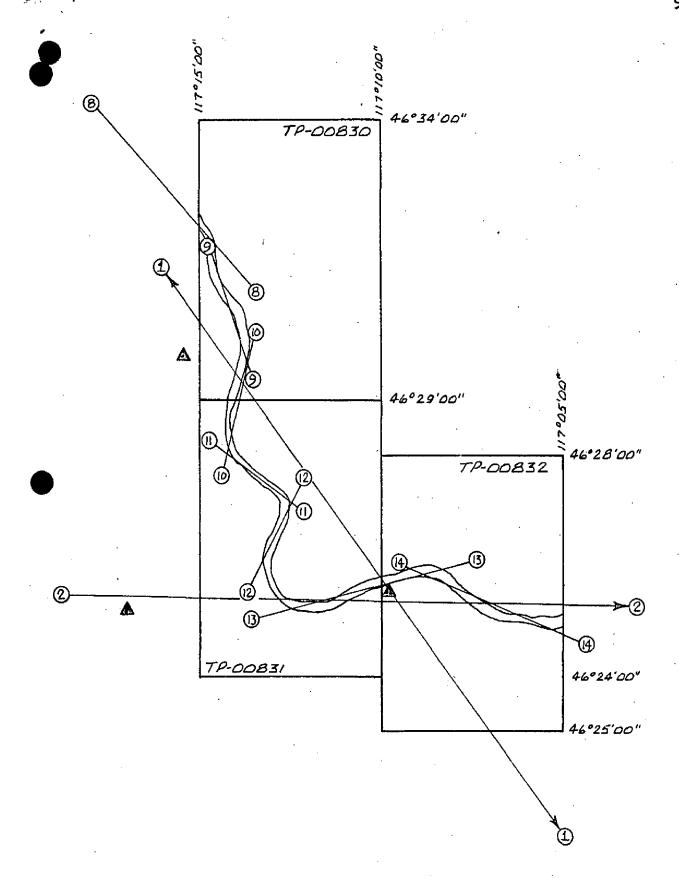


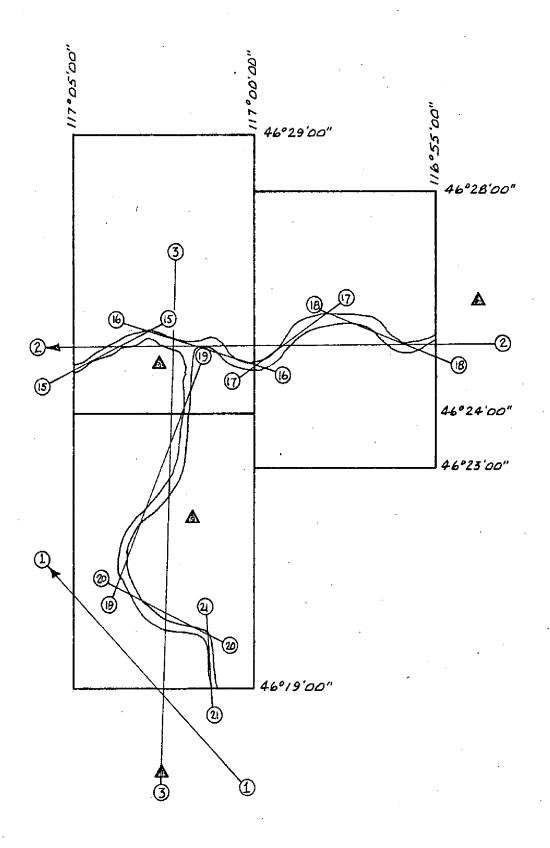
JOB CM-7408

SNAKE RIVER

WASHINGTON - IDAHO

JANUARY, 1975





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NOAA FORM 76-41 (6-75)				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	.S. DEPARTMENT OF ATMOSPHERIC ADMI	COMMERCE
		DESCRIPTIV	DESCRIPTIVE REPORT CONTROL RECORD			
MAP NO.	JOB NO.		GEODETIC DATUM	ORIGINATING ACT	ACTIVITY MATERIAL Dissipa	OV.
TP-00829	CM-7408	408	NA 1927	Norfolk.		•
	10000	AEROTRI-	COORDINATES IN FEET	GEOGRAPHIC POSITION		
STATION NAME	NFORMATION	ANGULATION	srare Washington	\$ LATITUDE	REMARKS	KS
	(xeput)	NUMBER	zove South	λ LONGITUDE		
			x= 2799 416.76	Φ	4416.76	583.24
TRUAX, 1945	P.C. pg.225		y= 476 890.38	γ	1890,38	3109.62
			x= 2802 873.19	ф	2873.19	2126.81
YAK, 1946	P.C. Pg 226		<i>y</i> = 465 187.70	γ	187.70	4812.30
			x= 2809 914.60	ф	4914.60	85.40
BISHOP, 1945	P.C. Pg.225		y= 465.909.77	γ	909.77	4090.23
			χ= 2813 201.33	Φ	3201.33	1798.67
KELLY, 1945	P.C. Pg.225		y≈ 453 991.14	γ	3991.14	1008.86
			χ=	ф		
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COMPUTED BY A. C. Rauck, Jr.		DATE 2/3/75	COMPUTATION CHECKED BY D.	Butler	DATE 3/7/7	5
LISTED BY		DATE	LISTING CHECKED BY		DATE	
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE	
		OT DEDOCTOR NO				

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

COMPILATION REPORT

TP-00829

31. DELINEATION

Delineation was by the Wild B-8 stereoplotter.

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 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 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

None previously charted.

38. CONTROL FOR FUTURE SURVEYS

None.

TP-00829

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 U.S. Geological Survey Quadrangle Map

Bishop, Washington, Scale 1:24,000, dated 1964

47. COMPARISON WITH NAUTICAL CHARTS

This area has not been previously charted.

Submitted by:

David P. Butler Cartographic Aid Date: July 6, 1976

Approved:

Albert C. Rauch Jr. 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-00829

Bishop Bar

Blyton Landing

Camas Prairie (RR)

Keith Canyon

Kelly Bar

Knoxway Bay

Snake River

Suicide Canyon

Water Canyon

Yakawawa Canyon

Approved by:

Charles E. Harrington Chief Geographer, C3x5

NOAA FORM 75-74 (7-75)			I	U.S. DEPARTMENT OF COMMERCE NOAA
	PHO	TOGRAMMET	RIC OFFICE REVIEW	NATIONAL OCEAN SURVEY
		TF	° – 00829	
1. PROJECTION AND GRIDS	2. TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
ALS	CB		ALS	ALS
CONTROL STATIONS		<u> </u>		· •
5. HORIZONTAL CONTROL ST THIRD-ORDER OR HIGHER	ATIONS OF ACCURACY	6. RECOVERA OF LESS TH (Topographic	BLE HORIZONTAL STATIONS IAN THIRD-ORDER ACCURACY c stations)	7. PHOTO HYDRO STATIONS
ALS	10		HA None	NA
8. BENCH MARKS	9. PLOTTING	DF SEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
ALS		CB	ALS	NA None
ALONGSHORE AREAS (Nautica	(Chart Data)			
12. SHORELINE (1985-1987)	13. LOW-WATE	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
ALS		IA.	ALS	A.L.S.
16. AIDS TO NAVIGATION	17. LANDMARK		18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
СВ	СВ		ALS	None
PHYSICAL FEATURES	<u> </u>	<u>.</u>	<u> </u>	
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOURS
ALS 23. STEREOSCOPIC	24. CONTOURS	IN GENERAL	ALS 25. SPOT ELEVATIONS	NA OTHER RUYSICAL
INSTRUMENT CONTOURS	24. CON 100 K.	IN GENERAL	234 SPOT ELEVATIONS	26, OTHER PHYSICAL FEATURES
ALS	ALS	5	ALS	None
CULTURAL FEATURES	1.00		1.00	
27. ROADS	28. BUILDINGS	5	29. RAILROADS	30. OTHER CULTURAL FEATURES
ALS	None	,	ALS	None
BOUNDARIES				
31. BOUNDARY LINES			32. PUBLIC LAND LINES	
NA NA			NA	<u></u>
MISCELLANEOUS 33. GEOGRAPHIC NAMES		34. JUNCTION	s	35. LEGIBILITY OF THE
ALS			AT C	AT C
36. DISCREPANCY OVERLAY	37. DESCRIPTI	L VE REPORT	ALS	ALS 39. FORMS
		•	PHOTOGRAPHS	
ALS	ALS	_	ALS	ALS
40. REVIEWER Q. L. Show	ls.		SUPERVISOR REVIEW SECTI	<i>A N</i>
A. L. Shands		3/17/76	Albert C. Ha	<i>-</i>
		71///0	Albert C. Rauck,	Jr.
41. REMARKS (See attached she FIELD COMPLETION ADDITION		TIONS TO THE	AANUSCRIPT	
	s furnished by th	e field complet		to the manuscript. The manu-
COMPILER D. Butler		12/15/77	SUPERVISOR	2 60
Reviewer C. Blood C	Blood.	01/78	Albert C. Rauck,	uron y
. See-Forms 76-3	66, items 3	and 8.		

FIELD EDIT REPORT

Project CM-7408

Lower Granite Reservoir, Snake River Idaho, Washington

September 1977

2. Areal Field Inspection:

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

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

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

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

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.

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 Pa

NOAA FORM 76-40		E A	300	U.S.	S. DEPARTM	U.S. DEPARTMENT OF COMMERCE	ORIGINATING ACTIVITY	CTIVITY
Replaces C&GS Form 567	NONFLOATING AIDS OR	LANDERS FOR CHARTS	FOR CHA	RTS .			HYDROGRAPHIC PARTY GEODETIC PARTY (V) BHOTO FIELD PARTY	IRTY TV
XXYO BE CHARTED TO BE REVISED TO BE DELETED		ashington	Locality Snake R Granite	River te Dam	, Lower	er Bes. Dec.197	COMPILATION ACTIVITY COMPILATION ACTIVITY OUTLITY CONTROL & RE	IVITY PREVIEW GRP.
The following ob	jects HAVE XX HAVE NOT been inspected from seaward to defermine their value as landmarks	seaward to de	stermine the	ir value as	landmarks.		(See reverse for responsible personnel)	ible personnel)
OPR PROJECT NO.		DATUM	N.A.1927	927		METHOD AND DATE OF LOCATION	F OF L OCATION	
ŗ	T I I I		POSITION	NO.		(See Instructions on reverse side)	on reverse side)	CHARTS
	DESCRIPTION	LATI	LATITUDE	LONGITUDE	TUDE			AFFECTED
CHARTING (F	(Record resson for deletion of landmark or sid to navigation. Show triangulation station names, where applicable, in parentheses)	, 0 (see	// D.M. Meters	, ,	// D.P.Meters	OFFICE	FIELD	
TICHT	Lower Granite Reservoir	46 34	46.50	117 17	49.55		P-5-L	
TIDIT	Light ii (PA)		1436	,	1055		M75-6-87	
LIGHT	Lower Granite Reservoir Light 12 (PA)	46 32	32.55	117 15	17.65			
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REVIEW REPORT TP-00829 CHART TOPOGRAPHY

May 23, 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 map will serve as the hydrography for this area on the new chart.

65. COMPARISON WITH NAUTICAL CHARTS:

All the maps of this project will serve as the basis for construction of a new chart of the area. That chart is not in production at the time.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map was compiled in accordance with the project instructions. See 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:

Billy H. Barn

Chief, Photogrammetric Branch, AMC

Approved

Chief Photogrammetric Branch

Chief, Coastal Mapping Division

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP-00829

INSTRUCTIONS

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

 1. Letter all information.

- In "Remarks" column cross out words that do not apply.
 Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
18548	1-21-80	R.a. Lillo	Full Part Before After Verification Review Inspection Signed Via
		01-22-80-805	Drawing No.
····			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
 		<u> </u>	Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
		-	Drawing No.
-			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Diawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
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