Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey	Chart Topography
	Office No. T-12150
	LOCALITY
State Oregon	n-Washington
General locality	Columbia River
Locality Ald	lerdale
	19-68 1967-69
	CHIEF OF PARTY Dieralski, Chief Cry Division
LIBR	RARY & ARCHIVES
DATE	× Q
VAIL	,

USCOMM-DC 5087

DESCRIPTIVE REP	ORT - DATA T - 1215		
PROJECT NO. (II):			
PH-6718			
FIELD OFFICE (II):	-	CHIEF OF PARTY	,
PHOTOGRAMMETRIC OFFICE (III):		OFFICER-IN-CHA	RGE
Washington Science Center		V. Ralpi	n Sobieralski
Field - July 12, 1967 Field, Supplement 1 - December 26, New Chart Topography - September 19 Nautical Chart Requirements - March Aerotriangulation - March 20, 1968 Office - April 15, 1968	9, 1967	В	
METHOD OF COMPILATION (III):		-	
B-8 Stereoplotter NUSCRIPT SCALE (III): 1:20,000	STEREOSCO	PIC PLOTTING INS	STRUMENT SCALE (III):
(1:10,000 compilation worksheets)	1:10	0,000	
DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPO	RTED TO NAUTICA	AL CHART BRANCH (IV):
APPLIED TO CHART NO.	DATE:		DATE REGISTERED ((V):
·			
GEOGRAPHIC DATUM (III):	<u> </u>	VERTICAL DATU	M (III):
			L EXCEPT AS FOLLOWS:
N.A. 1927			as (23) refer to mean high water as (5) refer to sounding datum
			er or mean lower low water
REFERENCE STATION (UI):			
LAT.: LONG.:			
		ADJUSTED UNADJUSTED	
PLANE COORDINATES (IV):		STATE	ZONE
x =			
ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTE OR (IV) WASHINGTON OFFICE.			
WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE	INE SURNAME	AND INITIALS, NO.	I INTITALS UNLY.

USCOMM-DC 36393A-P66

USCOMM-DC 36393B-P66

DESCRIPTIVE REPORT - DATA RECORD

T-12150

FIELD INCRECTION BY AN		DATE:
FIELD INSPECTION BY (II):		1
Robert B. Melby		JanMarch 1968
MEAN HIGH WATER LOCATION (III) (STATE DATE	AND METHOD OF LOCATION):	· -
Normal pool level, 265 ff from color photography, of infrared, dated June 1968	t. MSL, located by office lated November 1967 and Ju 3.	interpretation ne 1968, and
PROJECTION AND GRIDS RULED BY (IV):		DATE
R. Lillis		March 1968
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
CONTROL PLOTTED BY (III):		DATE,
R. A. Youngblood		July 1968
CONTROL CHECKED BY (III):		DATE
J. P. Battley		July 1968
RADIAL PLOT OR STEREOSCOPIC CONTROL EXT	ENSION BY (III):	DATE
I. I. Saperstein		April-May 1968
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY	DATE
J. Richter	Х	August 1968
	CONTOURS	DATE
D. Brant	Х	August 1968
MANUSCRIPT DELINEATED BY (III):		DATE
R. A. Youngblood		August 1968
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
REMARKS: FIELD ED IT	- SEPT 1969	
		İ

DESCRIPTIVE REPORT - DATA RECORD

T-12150

CAMERA (KIND OR SOURCE) (III):

RC-8 (Corps of Engineers "Y" Camera)
RC-8 "E"

NUMBER	T			
	DATE	TIME	SCALE	STAGE OF TIDE
7-Y(C)-7142-7148 7-Y(C)-7154-7158 7-Y(C)-7188-7193	11/2/67	11:57-11:59 12:11-12:13 12:32-12:36	1:20,000	
B-E(C)-6380-6388 B-E(C)-6391-6398 B-E(C)-6400-6407 B-E(C)-6365	6/16/68	10:50-10:53 11:01-11:03 11:11-11:14 10:28	1:20,000	

III)			
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£1	DATE:	- 101	V ∈ 19
	DATE:		
RECOVERED:	IDENTIFIE	D: 2	
RECOVERED:	IDENTIFIE	13	<u>-</u>
	RECOVERED: 2 RECOVERED:	RATIO OF RANGES DATE: DATE: RECOVERED: IDENTIFIE RECOVERED: IDENTIFIE	RATIO OF RANGE DATE: DATE: DATE: RECOVERED: IDENTIFIED: 2 RECOVERED: IDENTIFIED

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

REMARKS:

T-12150 is one of seven 1:20,000 scale chart topography maps covering Lake Umatilla (John Day Pool) a part of the Columbia River. John Day Pool was formed by impounding the water behind John Day Dam east to McNary Dam. The seven maps will provide the base for two small craft charts (673 SC and 674 SC).

Field operations began in late 1967 with the paneling of selected triangulation stations just prior to acquiring aerial photography. Field inspection continued and encompassed the determination of elevations of selected bench marks, shoreline inspection and the photoidentification of features that could possibly have a critical elevation for charting when the pool is formed.

Twelve strips were bridged by the analytical method, two strips at 1:60,000 scale and ten at 1:20,000 scale. Excellent horizontal and vertical accuracy was obtained from the premarked control and field determined elevations.

Photo-compilation was accomplished in the Washington office, utilizing the 1:20,000 scale color photography taken November 2. 1967, prior to the flooding of the John Day Pool. The Columbia River ranged in elevation, on this photography, from approximately 165 feet above MSL to 235 feet at McNary Dam. The shoreline to be shown on the charts is the "normal pool level" of 265 feet. Contours and spot elevations were compiled on the B-8 stereoplotter at selected intervals between the river level and the 265 foot shoreline contour. These will be used as depth curves and soundings on the published chart. All required chart compilation features were compiled at this same time. The original instructions called for the photogrammetric compilation at chart scale (1:20,000) but upon initiating the B-8 compilation, it was apparent that for clarity the contours would have to be compiled at 1:10,000 scale. This scale allows the Marine Chart compiler and the field editor to clearly interpret the contours and other compiled features and evaluate. what will be shown on the finished chart. Discussion with the Marine Chart Division resulted in the decision to supply them with 1:10,000 scale inked "Manuscript work bases" for interpolation. Field edit was applied to these bases (approx. two bases for each T-sheet). These bases were reduced to onehalf size and paneled to the 1:20,000 scale manuscripts for copy and registration. Any new features revealed by the 1968 photography were added during edit application. This photography was taken after the area was flooded and a comparison was made with the compiled shoreline.

Field edit was completed in September 1969.

Battley Ir

1:10,000 scale cronaflexes and 1:20,000 scale reductions were furnished Marine Charts. Due to a change in their priorities, completion was delayed on this project. Review and registration was re-scheduled and completed in June 1971.

Submitted by:

J. P. Battley, Jr.

Areal Field Inspection

The area is the reservoir to be formed by the John Day Dam on the Columbia River, between the states of Washington and Oregon. The land adjacent to this section of the river could be considered semi-arid, with dry land grain farming on the plateaus above the river gorge and irrigated lands adjacent to the river.

The major portions of the river flows through a rocky gorge, althrough stretches of the river"s present shoreline is of a gravel-stone composition notably the upper reaches of the proposed reservoir.

The color photography furnished the field unit was of good quality for the selection of vertical features.

Horizontal Control

The horizontal control requirements were fulfilled when a selected number of triangulation stations were paneled prior to the flying of the horizontal bridging photography, during the summer of 1967. White plastic or whitewash was used as paneling material. The plastic material required a considerable amount of stones or stakes to hold it in place during windy periods.

Vertical Control:

Vertical Control points had been selected and indicated on the photography furnished to the field party. An elevation was determined in the field for each selected point by trigonometric leveling, using stadia, electrochain or geodetic lengths.

The pool area was inspected for possible critical elevation features in conjunction with the Corps of Engineers topographic maps.

Near the upper end of the pool, several islands that are awash during

the spring flooding of the river were considered to be possible obstruction features even though they are relatively flat. They will probably form shoal areas once the reservoir has been filled.

A tabulation of the vertical control points (V. P.-) and critical elevation features (C. E. F.-) have been compiled as to photograph number field record book, to aid the compiler.

Recovery notes C(form 685A) will be submitted for each C&GS
bench mark recovered. Recovery notes for each U.S. Corps of Engineers
bench mark recovered and used as basic vertical control are being
submitted with a concise description, as the majority of these marks
do not have previous descriptions and the time necessary to make a
complete recovery of each mark was considered to be excessive in view
of the fact many of the U.S.E. bench marks do not meet C&GS requirements
for monumentation and some will be inundated in the near future.

Possible changes may occur on the major areas of Blalock Island, as it is composed mostly of fine drifting sand. The river currents after the flooding by the dam, will probably cause some degree of erosion as the sand is primarily in ridges and dunes. Along the south shore of the river in the vicinity of the old railroad station of Quinton, Oregon is an area composed of a large group of rocky outcroppings (Photo 67y7109). The elevations of the most prominent outcroppings were determined in the field. This area should be charted foul.

Shoreline Inspection

The alongshore area including the river islands were inspected and classified as to their sediment characteristics. After the flooding

of the reservoir, this will give the equivalent of bottom samples. This data was indicated on the field photographs.

Field Methods:

The majority of the field trigonometric leveling was performed with the Wild TlA theodolite. This particular instrument incorporates a self leveling vertical circle feature which expedited each instrument setup. Rod levels were used in conjunction with the stadia rods to insure the verticality of the rods, as the wind was a frequent factor. The U.S. Geological Survey "Stadia Tables for Obtaining Differences of Elevations". No. 9-1163 was used in the computations.

The use of the electrochains to determine distances were used only when the physical conditions of the terrain made the usual trig-level impractical.

Only two full sets of instrument readings were recorded for each observation setup instead of the normal procedure of two full and eight fine sets of readings. In each case an offset or eccentric point was occupied. In effect this allows a double-determination of the new point by a sliver triangle. When the electrochains were used reciprocal observations were observed with the Wild T-2 theodolite.

Field Problems

It was necessary to be selective in the choice of horizontal control stations to be paneled as the panels required a relatively large area, the remote stations were selected as the panels would not have to be set in cultivated dress. The plastic paneling material undergoes a change when exposed to the elements and becomes quite brittle after a short period and more or less disintergrates and the fragments are

scattered by the winds. In the future it may be necessary for the field units to revisit and remove the paneling after photography to control the litter problem.

Steep, rocky cliffs required a zigzag course to maintain the 10 degree vertical angle maximum as per the project instructions. No particular difficulty was encountered other than the reservoir area was being cleared of cultural features and the removal of bridges, culverts and the construction of railroad and highway right-of-way fences created an access problem at times.

Contact with the U. S. Corps of Engineers, Walla Walla District can be made with Mr. J. P. Futhey, Phone 509-525-5500, extension 400, Walla Walla, Washington

Approved: Good

Gerold L. Short

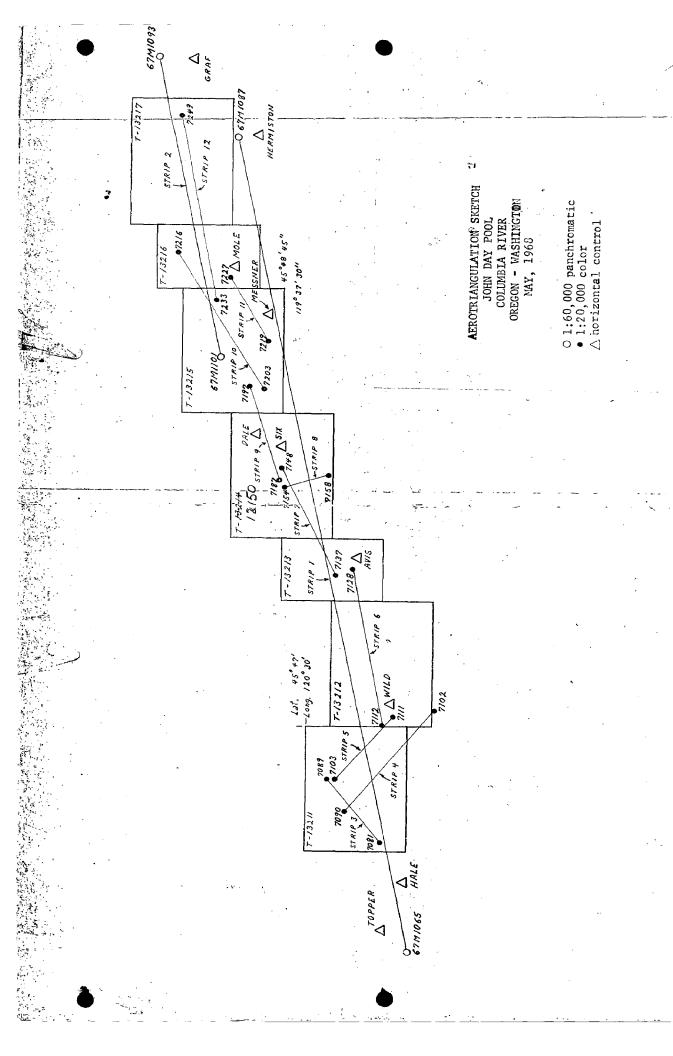
CAPTAIN, USESSA

Respectfully Submitted:

Robert B. Melby

Chief Photo Party

Pacific Marine Center



PHOTOGRAMMETRIC PLOT REPORT JOB PH-6718 COLUMBIA RIVER, OREGON - WASHINGTON August 1968

21. Area Covered

This report covers the Columbia River from the John Day Dam to the McNary Dam, consisting of seven (7) 1:20,000 scale T-sheets, T-13211 thru T-13217. - (T-13214 has constructed the T- 12150)

22. Method

Twelve (12) strips were bridged using analytical methods. Strips 1 and 2 were 1:60,000 scale panchromatic diapositives and strips 3 thru 12 were 1:20,000 scale color diapositives. Numerous tie points were located from the 1:60,000 scale photography to control the 1:20,000 scale photography.

The attached sketch of the strips bridged shows the placement of triangulation used in the final strip adjustments. Closures to both horizontal and vertical control are shown for each strip on the IBM readouts along with all bridge points on Oregon Zone 1 plane coordinates. All points have been converted to Mercator values.

23. Adequacy of Control

All horizontal control was premarked and was adequate to control the 1:60,000 scale bridge.

Since the vertical accuracy of our bridging results was of prime importance, the field party was required to furnish elevations to insure results of high accuracy. The results of our bridging proved their work to be very good. The RMS deviations for 173 vertical points in our bridged strips was 1.0 feet.

24. Photography

The definition and quality of the RC-9 "M" and RC-8 "Y" photography were good. No difficulty was encountered in the bridging of any strip.

Respectfully submitted,

homy I Lascottos I. I. Saperstein

Approved and Norwarded.

Aerotriangulation Section

COMPILATION REPORT T-12150

Refer to Descriptive Report No. T-13211 for Field Inspection and Photogrammetric Plot Report.

31. Delineation

T-12150 is a 1:20,000 scale chart compilation manuscript. Worksheets for T-12150 were compiled on the B-8 stereoplotter at a scale of 1:10,000. Color photographs at 1:20,000 scale taken November 2, 1967, were bridged and used in the instrument. This photography was supplemented with color photography taken in June 1968 after the John Day Pool area was flooded. Ratio prints at 1:10,000 scale of the 1968 photography were compared with the compiled worksheets and additions or revisions were made prior to inking. Two worksheets were inked at 1:10,000 scale to cover the area of T-12150. This scale afforded clarity of the compiled features. (See the Summary in Descriptive Report No. T-13211.) A cronaflex copy and ozalid copies were ordered for these worksheets for field edit use.

After field edit is applied, one-half reduction cronaflexes will be made and paneled onto the scale manuscript for T-12150.

32. Control

All horizontal control was premarked and adequate in density and placement. Vertical control was of prime importance for this project as the area contoured is to be used as bathymetric (depth curves, etc). Excellent vertical accuracy was achieved in the bridge from numerous field identified vertical points. (See the Photogrammetric Plot Report.)

33. Supplemental Data

None used in photogrammetric compilation.

34. Contours and Drainage

Color photography, scale 1:20,000, was bridged by analytic methods and used in the B-8 stereoplotter for contouring. This photography, taken in November 1967, before the pool area was flooded was very good and contours within the required accuracy (±2 feet) were obtained. Contours were drawn at prescribed intervals from the old river shoreline, to 262 feet. These intervals were: 3 ft. down from the 265-ft. shoreline to the

259-ft. contour (6-ft. depth curve), 6 ft. from 259 ft. to 235 ft. (30-ft. depth curve) and 10-ft. intervals from there to the river level. In areas of congestion, the 247-ft. and the 259-ft. contour (18-ft. and 16-ft. depth curve) were given preference and controured without "feathering." The 265-ft. elevation was then contoured as the shoreline at "normal pool level."

35. Shoreline and Alongshore Detail

The shoreline was delineated as stated in Item 34. Color photography, 1968, taken after the John Day Pool was flooded, was raticed and compared with the contoured shoreline. Minor differences were noted and revised.

36. Offshore Details

No comments

37. Landmarks and Aids

A listing of positions for aids to navigation under construction or completed was furnished by the U. S. Coast Guard. Throughout the project, there is a difference between the Coast Guard supplied positions and the positions obtained with the 1968 color photography. On T-12150, only one light agrees out of six applied. This variance was referred to the field edit for disposition. Landmarks are to be located by field edit.

38. <u>Control for Future Surveys</u>

None

39. Junctions

Junction was made to the west with T-13213 and to the east with T+13215.

40. Horizontal and Vertical Accuracy

Refer to paragraph No. 23 of Photogrammetric Plot Report, also paragraph No. 32 of the Descriptive Report.

41 thru 45.

Inapplicable

46. Comparison with Existing Maps

Comparison has been made with USGS Quadrangle Heppner Junction, Washington-Oregon, and Alderdale, Oregon-Washington, scale

1:24,000, dated 1962 - contour interval: Alderdale, 10 ft., Heppner Junction 20 ft. Compilation instructions state that all detail and the 300-ft. and 400-ft. contours that have changed above the 265-ft. pool level, should tie into the contours on the existing quads. Areas of changes were re-compiled and this tie made.

47. Comparison with Nautical Charts

Comparison has been made with Nautical Chart No. 6160 and 6161, scale 1:20,000, 2nd edition, dated September 12, 1966, at which time John Day Pool Dam was under construction. Preliminary Chart No. 6160, scale 1:20,000, 3rd edition, dated June 1968, was compiled from John Day Lock and Dam Reservoir drawings of U.S. Corps of Engineers, dated 1965. Using an interpreted line between the 260- and 270-ft. contour as the 265-ft. pool level for the shoreline.

Items to be applied to Nautical Chart immediately: None This is a new chart compilation.

Respectfully submitted:

John C. Richter Cartographer

John C. Richter

Approved and Forwarded:

K. N. Maki, Chief Compilation Section

FIELD EDIT REPORT

10

Chart Topography
Lake Umitilla (John Day Pool)
Columbia River, Washington-Oregon
March 1969
Map Manuscripts T-13211 through T-13217

This report covers the area of Lake Umatilla as formed by the John Day Dam on the Columbia River and common to the states of Wash-ington and Oregon.

The entire shoreline was inspected by vehicle or small boat. The shoreline and alongshore features were compared with the field edit copies of the map manuscripts (discrepancy prints) and/or the field edit color photographs.

The level of the water surface of the pool fluctuated several feet during the time of the field editing. The pool level for several days was below the normal elevation of 265 feet above mean sea level. The lower water provided ready field inspection of the exposed rocks and shoal areas.

The field edit copies (discrepancy prints) of the map manuscripts were used as the index for the field corrections and the numbers of the photography used for such corrections appear on the discrepancy prints.

52. Adequacy of Compilation:

The extent and accuracy of the maps appear to be reasonably complete, considering the compilation was without the benefit of field inspection.

All the descrepancies were investigated and resolved.

Cliffs and bluffs are in evidence in the westerly portion of the project area. Generally the cliffs and bluffs are to extensive to attempt to designate a particular escarpment as a landmark. Office interpretation could show the extent of the most obvious of these features by the hachure symbol or contour lines if so desired.

There are so few buildings in the area, that nearly every shoreline cultural feature is of landmark value. Along the railroads are several small communities consisting of several dwellings and usually a small, elevated water tank. These small communities are the residence for the railroads maintenance and service crews. It is recommended the buildings be mapped and the elevated tanks symbolized as small tanks.

Various parks, recreation and wildlife management areas are found along the shores of the lake in varying stages of construction or development. These features appear on the U.S. Corps of Engineers maps and are included with the geographic names data. The recreation

areas are generally an auto parking area, a surfaced, small boat launching ramp, a float and comfort facilities. In some of the larger areas, like Boardman and Umatilla, piling has been driven and floats for the moorage of small craft are in different stages of construction. In some instances only the capped piling are in place, near a surfaced ramp, and will be used to secure the floating piers.

All fixed aids to navigation were inspected and photo-identified or the office identification was verified. Two aids near McNary Dam that were beyond the limits of the color photography were field checked by triangulation intersection methods. Several of the fixed aids to navigation were not found on station, but were temporarily marked by a buoy. An employee of the U. S. Corps of Engineers, Walla Walla District stated the single "I"-beam pile structures that supported the lighted aids had been destroyed by wave action during violent winter storms. The missing aids were not included on the Form 567. Annotations describing their disposition at the time of the field inspection have been entered on their respective photographs.

Purple ink was used to indicate corrections on the discrepancy sheets. Red-orange tempera, water soluble ink was used for the annotations on the field edit photographs. Green ink was used on both the field edit photography and the discrepancy prints to indicate deletions.

Rocks and shoals word investigated. The elevations of these features in relationship to the water surface at the time the feature was visited, was recorded on the photographs. Several bench marks along the shoreline permitted the field unit to determine the stage of the water surface at the time of the field inspection. In the vicinity of Blalock Island, the flooding waters of the impounded river covered the islands except for a few sand dunes that remained exposed. However, wave action, currents, winds and other natural forces have eroded most of the dunes until they are no longer exposed, but are now shoal areas. Since the dunes were comprised of fine, wind blown sand, the erosion is quite extensive and no doubt it will continue for sometime and the shifting of the shoal areas could be expected to continue for sometime.

Pertinent information pertaining to an individual discrepancy sheet will be listed under that specific sheet in the body of this report.

All landmarks were investigated. All charted landmarks found and all new landmarks have been listed on Form 567. Landmarks that no longer exist have been listed on Form 567 to be deleted.

Geographic Names are the subject of a separate report. Any new names or name changes will be discussed in this separate report.

Sheet T-13211

On this sheet appears the John Day Navigation Lock and Dam. Two navigation lights were photo-identified. They are along the downstream entrance of the navigation lock of the dam.

The light list numbers of several of the fixed aids to navigation have been changed in accordance with the Notice to Mariners #12, dated 6 March 1969.

Several rocks in the vicinity of light 14 were located by sextant fixes.

Along the northeast shore of the John Day River is a one-lane dirt road. The road has been blocked to vehicular traffic at its junction with Interstate Highway 80 North. It is recommended the road should be mapped as a trail.

Several overhead power cable crossings have been indicated.

Sheet T-13212

All fixed aids to navigation were photo-identified. Two new landmarks were selected and identified. Several small boat launching ramps are also found in this area.

In the vicinity of Sundale, there is an orchard with tall wind break trees. It is recommended both the orchard and the configuration of the wind break trees should be shown on the maps, as they are the most salient features in this particular area.

Sheet T-13213

replaced by a buoy. Light 31 is also missing and it has been replaced by a buoy. However, the steel "I"-beam pile that supported Light 31 is still in place and leaning slightly. It was photo-located and it should be mapped as a lone pile.

The conflict between the names Roosevelt and West Roosevelt (community) will be covered in the geographic names report. Northeast of Roosevelt is a park (Petroglyph Park) that was incorrectly compiled as a cemetery. The park contains boulders with petroglyphs (rock carvings). The boulders had been removed from the areas along the shores of the river prior to its flooding and they are arranged and displayed at the park.

Three landmarks were selected in the area.

All fixed aids to navigation were photo-identified. The river elevation was below the normal pool level and various rocks were investigated and their heights in relation to the existing water surface were determined and recorded on the photography.

A small boat basin and a surfaced launching ramp are found at the mouth of three Mile Canyon.

Sheet T-13215

Castle Rock Light 48 is missing and it has been replaced by a buoy. All fixed aids to navigation were photo-identified.

Considerable changes in the shoaling exists in the area of the Blalock Islands. See the photography of the area as referenced on the discrepancy sheets for the present status of the sand islands and shoals.

An elevated water tank was selected as a landmark in the town of Boardman.

Considerable shoating and silting at the mouth of Glade Creek has rendered the surfaced launching ramp useless except at higher than norman water elevations of the river.

The feature mapped as an abandoned railroad on the east one of three discrepancy sheets is a dismantled railroad as both the track and crossties have been removed and it is in effect single lane dirt at present.

Sheet T-13216

All fixed aids to navigation were photo-identified. One landmark was also selected and identified.

The old, abandoned railroad grade east of Paterson is rapidly eroding away. The railroad bed was built on a sand fill and the action of the water is gradually reducing the grade to a submerged shoal.

The flooding of the shallow areas can be correctly interpreted from the color photography.

Sheet T-13217

All fixed aids to navigation were photo-identified or field checked. Four landmarks were selected and identified. Two small craft boat basins and four launching ramps were indicated on the field edit photography.

Respectfully Submitted,

Robert B. Melby

Chief, Photo Unit, PMC

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6718 (Lake Umatilla,

Oregon and Washington)

T-1321# 12150

Alder Creek Columbia River Cottonwood Creek * Dead Canyon Road Heppner Junction Interstate 80N (Highway) Lake Umatilla McCredie McCredie Island Pine Creek Quesnel Park Sixmile Canyon Spokane, Portland and Seattle (R. R.) State No. 14 (Highway) Threemile Canyon Union Pacific (R. R.) U. S. No. 30 (Highway) Willow Creek Alderdale agor-70

Approved by:

A. Joseph Wraight Chief Geographer Prepared by:

Cartographic Technician

REVIEW REPORT T-12150 June 1971

61. General Statement

See Summary in Preface. T-12150 was originally numbered consecutively T-13214 until it was realized that this number had been used on another project.

62. Comparison with Registered Topographic Surveys

None

63. Comparison with Maps of Other Agencies

Comparison was made with USGS Quadrangle Heppner Junction, Washington-Oregon, and Alderdale, Oregon-Washington, scale 1:24,000, dated 1962.

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Marine Charts

Comparison was made with Chart 6160 and 6161, scale 1:20,000, 2nd edition, dated September 1966. The John Pool Dam was under construction at this time and the area had not been flooded.

Preliminary Chart 6160, scale 1:20,000, 3rd edition, was compiled from C. OF E. drawings. The normal pool level was interpreted between the contours delineated on these drawings.

Adequacy of Results and Future Surveys

This map complies with project instructions and meets the National Standards of Accuracy. T-12150 and the other maps of this project will provide an excellent base for new charts 673 and 674 SC.

Reviewed by:

Approved by:



C&GS-16	OMM-DC 8-P68
FORM (4-68)	503 18-F

DESCRIPTIVE REPORT CONTROL RECORD

		DESCA	RIPTIVE REP	DESCRIPTIVE REPORT CONTROL RECORD	
MAP T- T-12150	PROJECT NO.	NO. PH-6718		SCALE OF MAP 1:20,000 SCAL	SCALE FACTOR
STATION		SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Pt. = 3048006 meter) FORWARD (BACK)
		P.C.	N.A.	792,715.37	
DALE (USE) 1942	Target	Pg. 74	1927	2,149,792.85	
		ja		784,998.53	
SIX (USE) 1942		Pg. 74		2,144,128,83	
				Arry Maga	
		,			
			i		
	,				
COMPUTED BY		DATE		CHECKED BY	DATE

TO BE CHARTED TO BE ALEXAGE STRIKE OUT TWO NONFLOATING AIDS OR LANDMARKS FOR CHARTS

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Umatilla, Oregon

March 19 69

charted on harkstook strongs the charts indicated. recommend that the following objects which have (happe notes) been inspected from seaward to determine their value as landmarks be

The positions given have been checked after listing by

WHITCOMB ALDERDALE ARLINGT ON WHITCOMB LIGHT 52 CROW BUTTE LIGHT 51 CASTLE ROCK LIGHT 50 CROW BUTTE LIGHT 42 ALDERDALE THANKSGIVING LIGHT MCCREDIE HEPPNER LIGHT 36 ROOSEVELT LIGHT 30 ARLINGTON Advi CTO CHARTING BTATE Washington-Oregon CANYON LIGHT 39 LIGHT CARGILL LIGHT TIGHT 44 LIGHT 43 LIGHT 28 53 LIGHT DESCRIPTION 040 26 1807.11 Light 1787.11 1785.11 804.11799.11 796.11 [793, 1]X AND CONTRACTOR 805.11 801.11 798.11 .795.11 785.09 806,11 784.11 6454 64 54 7, 4 t s 7,45 4 15 54 45 50 6454 5454 92 24 4549 4547 45 5 7 <u>ئ</u> 24 LATTI-UDE # 49.18 518.4 27.87 860.4 841.9 690.65 600 389.9 46.0 1029.6 D. M. METERS 193.6 더 75 POSITION 119 45 660: 119 48 685.4 119 57 119 59 910: 120 10 67.65 120 12 119 46 1283. 119 51 119 55 971, 119 56 264.4 120 01 120 12 84 611 120 16 LONGITUDE # 1200.0 643. 642I 44.99 D. P. MEYERS 60 BATUM A 1-1321 METHOD OF LOCATION AND SURVEY No. Photo T-132 7 SIZE = = = = 2 = = = = = **.** DATE OF LOCATION <u>`</u> ` Melby = 7, = = Ξ z = 3 3 2 = 69 HARBOR CHART INSHORE CHART f of Party. AFFECTED 9160 6161 CHARTS = = = = 3 : = 2 = = =

lary and nonfloating aids to navigation, if redetermined, shall be reported in s form. Revisions shall show both the old and necessitated for the charts of the area and not by individual field survey sheets, which mation under each column heading should be given. * TABULATE SECONDS AND METERS This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. s form. Revisions shall show both the old and new positions. 79. Positions of The charted ä

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RECORD OF APPLICATION TO CHARTS

FILE WITH	DESCRIPTIVE	REPORT	OF SURVEY NO.

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
6160	3-15-72	J. Bailey	Full Part Hefore After Verification Review Inspection Signed Via
<u>-</u>			Drawing No. 5 Applied critical corrs.
6161	3-30-72	J. Bailey	Est Part Bulere After Verification Review Inspection Signed Via
		7 7	Drawing No. 5 Appl. critical corrs.
6160	5-27-72	R. DAUIS	Part Bare After Vallander Review Inspection Signed Via
			Drawing No. 5 (Roof)
61.61.	7/5/72	R.DAVIS	Part Brice After Vollage on Review Inspection Signed Via
		<u> </u>	Drawing No. 5 (Proof)
6/60	8/75	RJ. Sellade	Full Para Batase After Verification Review Lagranian Signed Via
	7		Drawing No.
ر عاد ا	6/76	D. Contra	Full Part Balore After Vocification Review Inspection Signed Via
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853(,	1181	5m. Vill	Butter Before After Verification Review Inspection Signed Via
	11-16-81	RCS	Drawing No. 9M Part Reapplied,
			Full Part Before After Verification Review Inspection Signed Via
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	,		Full Part Before After Verification Review Inspection Signed Via
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