## 13215

### Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Type of Survey Chart Topography  Field No. Office No. T-13215
LOCALITY
State Oregon-Washington
General locality Columbia River
Locality Messner
1968 1967-69
CHIEF OF PARTY V. Ralph Sobieralski, Chief Photogrammetry Division
LIBRARY & ARCHIVES
DATE

USCOMM-DC 5087

DESCRIPTIVE REP	ORT - DATA	RECORD	
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ROJECT NO.(II):			
PH-6718			
IELD OFFICE (II):		CHIEF OF PARTY	
,			
PHOTOGRAMMETRIC OFFICE (III):	<u>-</u>	OF FICER-IN-CHAR	GE
Washington Science Center		V Polnk	n Sobieralski
NSTRUCTIONS DATED (II) (III):	- <u></u>	V. Raipi	DOUTETAISKI
Field - July 12, 1967 Field, Supplement 1 - Decemb New Chart Topography - Septe Nautical Chart Requirements Aerotriangulation - March 20 Office - April 15, 1968	mber 19,	1967	
ETHOD OF COMPILATION (III):	<del></del>		
B-8 stereoplotter			
B-8 stereoplotter ANUSCRIPT SCALE (III): 1:20,000		· · ·	TRUMENT SCALE (III):
1:10,000 compilation worksheets)	1	110,000	
DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPO	ORTED TO NAUTICA	L CHART BRANCH (IV):
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APPLIED TO CHART NO.	DATE:		DATE REGISTERED (IV):
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GEOGRAPHIC DATUM (III):  N. A. (927		MEAN SEA LEVEL	
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### **DESCRIPTIVE REPORT - DATA RECORD**

	T-13215	
FIELD INSPECTION BY (II):		DATE:
Robert B. Melby		JanMar. 1968
MEAN HIGH WATER LOCATION (III) (STATE DATE	AND METHOD OF LOCATION):	· · · · · · · · · · · · · · · · · · ·
Normal pool level, 265 factories from color photography, infrared, dated June 196	Tt. MSL, located by office int dated November 1967 and June 8.	erpretation 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.
H Lucas		August 1968
CONTROL CHECKED BY (III):		DATE
R. Youngblood		August 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	CONTOURS	August 1968
D. Brant	X	August 1968
MANUSCRIPT DELINEATED BY (III): M. Webber		DATE
R. Youngblood		August 1968
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
FIELD EDIT -	.५६९	

FORM C&G\$-181c

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

### **DESCRIPTIVE REPORT - DATA RECORD**

T-13215

MERA (KIND OR SOURCE) (III):

RC-8 (Corp of Engineers "Y" camera)

		PHOTOGRAPHS (III)				
NUMBER	DATE	TIME	SCALE	ST	AGE OF TI	DE
7-Y(C)-7194-7197	11/2/67	12:34-12:35	1:20,000			
7-Y(C)-7203	" "	12:46-12:52	**			
57-Y(C)-7219-7226		13:05-13:09				
8-E(C)-6408-6413	6/16/68	11:14-11:16	1:20,000			
68-E(C)-6424-6431 68-E(C)-6437-6441	11	11:29-11:33	41			
00-F(C)-043V-044I		11:42-11:4)				
	<u> </u>	TIDE (III)				
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PORDINATE STATION:	_					
SUBORDINATE STATION:						
WASHINGTON OFFICE REVIEW BY	(IV): .\	0 0 0		DATE:	1 -JUN	15 103
PROOF EDIT BY (IV):		P. BATTI	EY	DATE:	-3010	(4)
NUMBER OF TRIANGULATION ST	ATIONS SEADCHED	EOR (III):	RECOVERED:	IDENTIFIE	D:	
			1	<u> </u>	<u> </u>	
NUMBER OF BM(S) SEARCHED FO	OR (II):		RECOVERED:	IDENTIFIE	10	
NUMBER OF RECOVERABLE PHO	TO STATIONS ESTA	BLISHED (III);				
NUMBER OF TEMPORARY PHOTO	HYDRO STATIONS	ESTABLISHED (III):				<del></del>

### Summary to Accompany Descriptive Report T-13215

T-13215 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 inter-polation. 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.

attleych

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 sonsidered 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 duhes. 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 areas. 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;

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-732/4 2005 2006) 7-72/50)

### 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 l 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

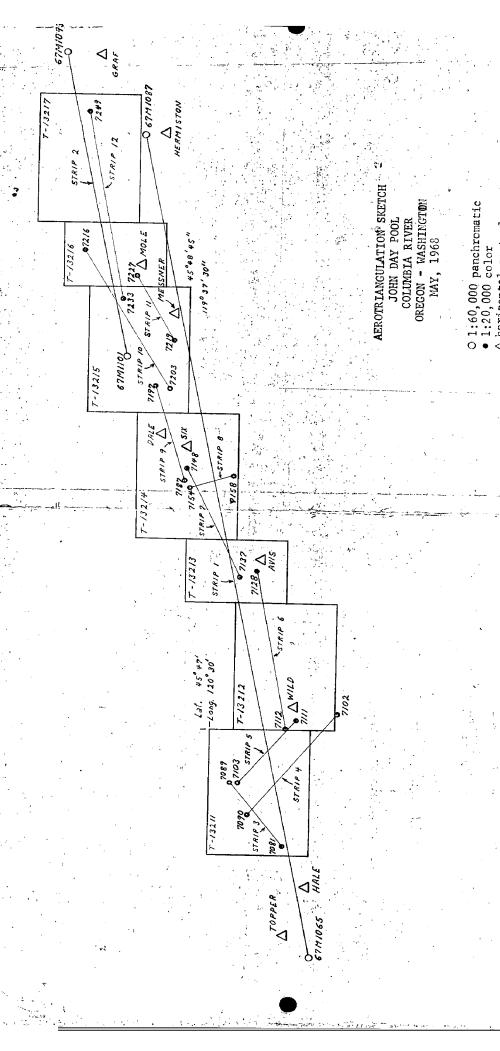
The definition and quality of the RC-9 "M" and RC-8 "Y" photography were good. No difficulty was encountered in the bridging of any strip.

Respectfully submitted,

hung I Saperstein

Approved and norwarded,

Chief, Aerotriangulation Section



### COMPILATION REPORT T-13215

Refer to Descriptive Report No. T-13211 for field inspection and Photogrammetric Plot Report.

### 31. <u>Delineation</u>

T-13215 is a 1:20,000 scale chart compilation manuscript. Worksheets for T-13215 were compiled on the B-8 stereoplotter at 1:10,000 scale. Color photographs, scale 1:20,000, 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. The 1:10,000 scale ratio prints of the 1968 photographs were compared with the compiled worksheets and additions or revisions were made prior to inking. Three worksheets were inked at 1:10,000 scale to cover the area of T-13215. This scale afforded clarity of the compiled features (see the Summary in the Descriptive Report 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 1:20,000 scale manuscript for T-13215.

### 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 a bathymetric chart (depth curve, 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 at 1:20,000 scale 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 of good quality and contours within the required accuracy (\*2 feet) were obtained. Contours were drawn at prescribed intervals from the old river shoreline to 262 ft. These intervals were: 3 ft. from the 265-ft. shoreline to

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

### 35. Shoreline and Alongshore Details

The shoreline was delineated as stated in Item 34. Color photography of 1968 taken after the John Day Pool was flooded was ratioed and compared with the contoured shoreline.

### 36. Offshore Details

Refer to Field Edit report pertaining to changes in the major areas of Blalock Island. Also if the 265-ft. pool level is higher in the ratio color photographs, the detail will not match with the instrument compilation and will have to be checked.

### 37. Landmarks and Aids

Seventeen aids to navigation are located from U.S. Coast Guard positions and all agree with the photogrammetrically located positions except for the following:

Crow Butte Lt. 51 Castle Rk. Lt. 50 Messner Lt. 55 Blalock Lt. 61

Landmarks are to be located by field edit.

### 38. Control for Future Surveys

None

### 39. Junctions

Junction was made to the west with T-12150 and to the east with T-13216 and are in agreement.

### 40. Horizontal and Vertical Accuracy

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

41. thru 45.

Inapplicable

### 46. Comparison with Existing Maps

Comparison has been made with USGS Quadrangles Crow Butte, Oregon-Washington; Boardman, Oregon-Washington; and Blalock Island, Washington-Oregon, scale 1:24,000, date 1962, contours at 10-ft. intervals. The quadrangles were enlarged to 1:10,000 scale so that detail could be checked. Compilation instructions state that all detail and the 300-ft. and 400-ft. contours that have been changed above the 265-ft. pool level should tie into the contours on the existing quads. Areas of change were re-compiled and ties made.

### 47. Comparison with Nautical Charts

Comparison was made with Nautical Chart No. 6161, scale 1:20,000, 2nd edition, October 1965, at which time John Day Pool Dam was under construction. Preliminary Chart No. 6161, scale 1:20,000, 3rd edition, dated July 1958, was compiled from John Day Lock and Dam Reservoir drawings of the 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 Charts immediately: None This is a new chart compilation.

Respectfully submitted:

John C. Richter

Approved and Forwarded:

John C. Richter Cartographer

K. N. Maki, Chief Compilation Section

### FIELD EDIT REPORT

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 Washington 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 were 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. Light 31 is also missing and it too 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.

### Sheet T-13214

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 shoaling 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.

In 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

f 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-13215

Blalock Islands

**Boardman** 

Boardman Marine Park

\Castle

'Columbia River

'Crow Butte

Crow Butte State Park

Dead Canyon

Faler Canyon

∖Glade Creek

\ Interstate 80N (Highway)

Lake Umatilla

\North Channel

\*Paul Smith Road

\*Rippee Road

\*Sam Boardman Avenue?

South Channel

`Spokane, Portland and Seattle (R. R.)

State No. 8 (Highway)

VUnion Pacific (R. R.)

\U. S. No. 30 (Highway)

\U. S. No. 730 (Highway)

Whitcomb

\_Whitcomb Island

Wilson Road

4 Tower Road

Approved by:

A. Joseph Wraight

Chief Geographer

Added by Field man

Prepared

Frank W. Pickett Cartographic Technician

\*Feature not compiled

### REVIEW REPORT T-13215 June 1971

61. General Statement

See Summary in Preface

62. Comparison with Registered Topographic Surveys

None

63. Comparison with Maps of Other Agencies

Comparison was made with USGS Quadrangle Crow Butte, Oregon-Washington; Boardman, Oregon-Washington; and Blalock Island, Washington-Oregon, scale 1:24,000, dated 1962.

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Marine Charts

Comparison was made with Preliminary Chart 6161, scale 1:20,000, 3rd edition, dated July 1958. This chart was compiled from John Day Lock and Dam Reservoir drawings, dated 1965, by the Corps of Engineers.

66. Adequacy of Results and Future Surveys

This map complies with project instructions and meets the National Standards of Accuracy. T-13215 and the other six maps in this project will provide an excellent base for new charts 673 and 674SC.

Approved by:

Reviewed by:

J. P. Battley, Jr.

Chief, Photogrammetric Branch Jes

Chief, Coastal Mapping Division

FORM C&GS-164 4-68) JSCOMM-DC 10318-P68

DESCRIPTIVE REPORT CONTROL RECORD

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

COMPUTED BY												\000t	WESSNER (HSE) 1942 Target		STATION	MAP T- 13215 PROJECT NO.
DATE												-	Pg. 74	มิล	SOURCE OF INFORMATION	о. РН-6718
									ļ				1927	N.A.	DATUM	SC.
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DATE															N.A. 1927 - DATUM  DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter)  FORWARD (BACK)	SCALE FACTOR

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

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Umatilla, Oregon

charted on best trong the charts indicated. recommend that the following objects which have (have chart) been inspected from seaward to determine their value as landmarks be

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The positions given have been checked after listing by

					POSITION		L CO		ART	HART OF FORTY.
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Ŧ,	ጜ 1	1804.11	05 54	38 66 193.6		200.0				<b>=</b>
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?			,		1	7-20 K-26 7-18 to 22 inclusive and Fig. 79.			} ::	Danitions of charted

considered for the charts of the area and not by individual field survey sheets. This form shall be prepared in accordance with Hydrographic Manual, and nonfloating aids to navigation, if redetermined, shall be ref blication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted 



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## U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

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# NONFLOATING AIDS OR LANDMARKS FOR CHARTS

3 TO:BECREVISED TO BE CHARTED STRIKE OUT TWO Umatilla, Oregon March <u>س</u> 3 ၁

charted on (KENERAL) the charts indicated. I recommend that the following objects which have (Kara Man) been inspected from Richter seaward to determine their value as landmarks be

The positions given have been checked after listing by

BLALOCK MESSNER PATERSON LIGHT 63 BLALOCK MESSNER PATERSON MESSNE MESSNEF MESSNEI MESSNER MESSNER MESSNEF MESSNE MESSNER STATE CHARTING Washington-Oregon LIGHT LIGHT 62 UPPER RANGE REAR LIGHT UPPER RANGE MIDDLE MIDDLE RANGE LOWER LIGHT 61 LIGHT 55 LOWER RANGE LIGHT LIGHT 56 LIGHT 65 59 RANGE RANGE DESCRIPTION FRONT REAR FRONT FRONT REAR LIGHT LIGHT LIGHT LIGHT TIGHT 1822.11 1813. 1810. 1811.12 1820. 1821.11 1815, 819,11 818. 1814. [81] 1808.1 808,11 XMANA <u>ieht</u> 815.1145 52 st 45 51 45 54 45 53 45 51 45 51 45 51 T5 54 54 72 24 72 24 なっても 45 51 12.24 ٥ א 'n LATTUDE # 1634.25 18,15 (<u>01.</u> ½) 20.63 636.9 756.4  $\frac{07.07}{218.3}$ 22.04 680.5 358.6 351.0 325.7 D.M. METERS 319.0 0.55 119 37 659. 7 119 36 951. 9 119 39 642.4 22.27 119 39 480.4 POSITION 119 35 910. 1,094 86 611 46.12  $11939|\frac{07.07}{152.5}$ 119 39 1181.  $11940|\frac{24.60}{530.7}$ 119 43 21, 58 11941 11941 19 19 40 43 LONGITUDE # 21.76 01,17 894.47 42.25 29.78 D. P. METERS 1927 DATUM = BURVEY 1221-1 Ph321 METHOD Z = = z = : = : Ξ = = = Ø ُسِ LOCATION /12DATE Melby 2 : = = = ŧ 3 # = 2 3 9 HARBOR CHART INSHORE CHART Chief of Party. OFFSHORE CHAR CHARTS AFFECTED 6161 6162 = = : = = = 2

hand nonfloating aids to navigation, if redetermined, shall be report. of the form. Revisions shall show both the old and never consider. For the charts of the area and not by individual field survey sheets. Internation under each column heading should be given. This form shall be prepared in accordance with Hydrographic Manual, Pu ation 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. h form. Revisions shall show both the old and new positions. Posi The

\* TABULATE SECONDS AND METERS

# U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

# NONFLOATING AIDS OR LANDMARKS FOR CHARTS

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charted on (現形形狀形) the charts indicated. I recommend that the following objects which have (REVEX WEE) been inspected from seaward to determine their value as landmarks be

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ELEVATOR IICKOWAVE ELEVATOR ELEVATOR ELEVATOR (Elev.) TOWER T OWER W.GAB CHARTING BTATE TANK Washington-Oregon West Tank Microwave North Gable, Elevator Microwave, skeleton stower ht.=149' (314') Letter"A" on Hillside Flashing red lt. atop Grain Elevator at Arl West Gable. tower Elevated Water Tank Grain Elev, at Roosevelt Gable ht.=149\* DESCRIPTION ht.=100' Grain Elevator Building Arlington (380)teel Nove 6315 6354 6377 6329 6463 6452 6361 6438 Photo 6361 5 545 45 ¥ 45 55 05 54 54.54 4543 45 43 45 41 0 53 41 Ϋ́ 43 # BOULLLY 563.2 E28.0 827.4 791.65  $\frac{10.92}{537.1}$ 6.2041 44.54 158.12 312.4 D.M. METERS 6.443 50.04 . 80 119 33 967.6 119 18 915.1 119 18 915.1 POSITION 119 29 120 119 42 126.0 120 120 120 <u> 120 11</u> 120 0 12:39 42 268:0 18:97 242 LONGITUDE # کر 0 29.53 367.6 353.4 51.01 1103. 296. D. P. METERS 16.99 N.A. 1927 DATUM = = : = = = = = : Photo 71321. METHOD OF LOCATION AND BURVEY NO. -1321 -1321 -1321 -1321 -1321 = 3 = : DATE OF LOCATION 3/19= = : = = = = 3 = 8 MARBOR CHART Chief of Party. OFFRHORE CHART 6161 6160 6159 AFFECTED 6162 CHARTS = = = = = 3

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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
6161	3-20-72	9 Bailes	Full Part Before After Verification Review Inspection Signed Via
<u> </u>	2 3001%	J. Tames	Drawing No. 5 Applied critical corrs
		·	
6/61	7/5/72	R. DAVIS	Part Beer After Verifier Review Inspection Signed Via
	· · ·		Drawing No. 5 (Proof)
6/62	5/20/15	Ray Spense	Full Part-Refere After Verification Review Inspection Signed Via
			Drawing No.
6161	1- <b>14</b> -76	My B. Nois	Full Part Before After Varification Review Inspection Signed Via
			Drawing No.
/ 11 )	1107	D.C.	Full Pare Before After Varification Review Inspection Signed Via
6161	6/15/76	D.R. CORDIS	Drawing No. Consider fully apple
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