10363

Orig.

Diag. Cht. Nos. 5902-2 & 6002-2.

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Planimetric (Photogrammetric)

Field No. Ph-155 *Office No.* T-10363

LOCALITY

State Oregon

General locality Columbia River

Locality John Day Point

1955-1958

CHIEF OF PARTY

V. Ralph Sobieralski, Chief of Party
Lorne G. Taylor, Photogrammetric Office

LIBRARY & ARCHIVES

MAY 1962

DATE

USCOMM-DC 5087

10363

FORM 181
(4-23-54)

2. U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T - 10363

Project No. (II): Ph-155 Quadrangle Name (IV):

Field Office (II): Astoria, Oregon Chief of Party: V. Ralph Sobieralski
Unit Chief: W. P. James, C. D. Upham
Photogrammetric Office (III): Portland, Oregon Officer-in-Charge: Lorne G. Taylor

Instructions dated (II) (III): 5 Oct. 1955)
12 Oct. 1955) II & III
3 July 1957)

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Kelsh Stereoscopic Instrument

Manuscript Scale (III): 1:10,000 Stereoscopic Plotting Instrument Scale (III): 1:5000
Pantograph Scale: 1:10,000

Scale Factor (III):

Date received in Washington Office (IV): Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 3/27/62

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): N.A. 1927 Vertical Datum (III):

Mean sea level except as follows: X
Elevations shown as (25) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): LANGVIEW, 1947

Lat.: 46° 10' 13.790" Long.: 123° 43' 02.939" Adjusted X
Unadjusted

Plane Coordinates (IV): State: Oregon Zone: North

Y= 929,104.22 X= 1,184,962.44

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

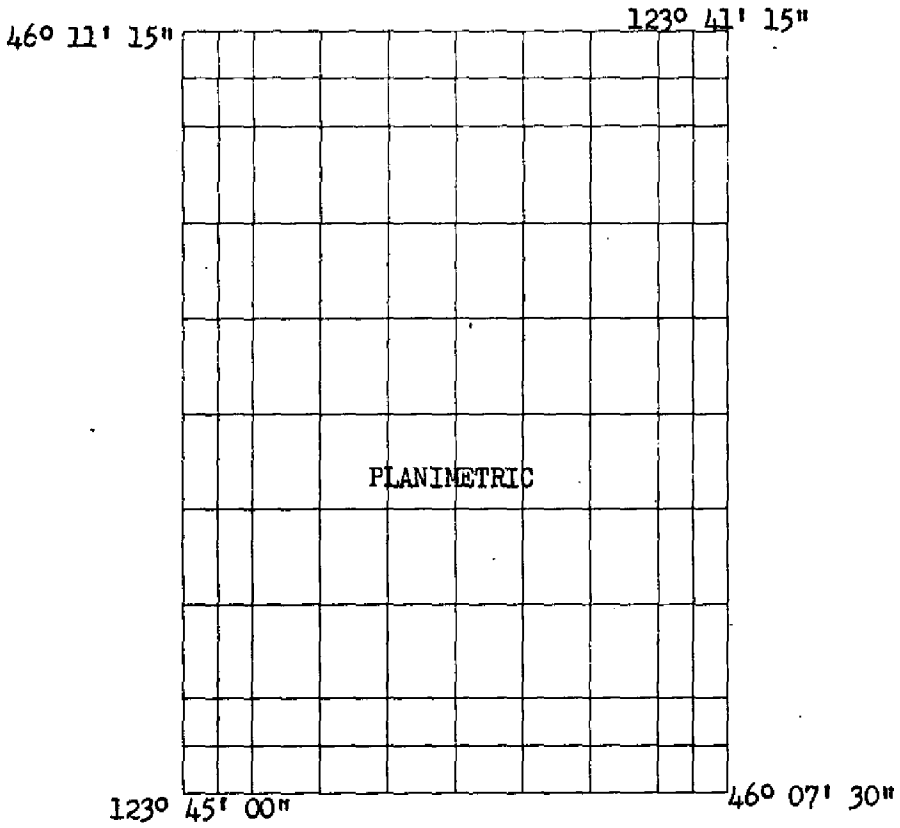
When entering names of personnel on this record give the surname and initials, not initials only.

COMM-DC-57842

FORM 181a
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
-COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD



Areas contoured by various personnel
(Show name within area)
(II) (III)

FORM 181b
(4-23-54)

4.
U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): C. D. Upham & E. T. Jenkins, W. P. James & C. H. Bishop — Date: Sept. 1957, Oct. 1958

Planetable contouring by (II): — Date:

Completion Surveys by (II): — Date:

Mean High Water Location (III) (State date and method of location): Sept. 1957 by field inspection and compilation by Kelsh Instrument.

Projection and Grids ruled by (IV): J. B. Phillips — Date: 9-3-57

Projection and Grids checked by (IV): J. B. Phillips — Date: 9-3-57

Control plotted by (III): D. N. Williams — Date: 11-20-57

Control checked by (III): L. L. Graves — Date: 11-20-57

Radial Plot or Stereoscopic Control extension by (III): John D. Perrow, Jr. — Date: 10-28-57

Stereoscopic Instrument compilation (III):
Planimetry D. N. Williams — Date: 2-18-59
Contours — Date:

Manuscript delineated by (III): D. N. Williams, Scribing; C. C. Harris, Stick-up — Date: 3-28-60, 4-24-60

Photogrammetric Office Review by (III): J. E. Deal — Date: 8-30-60

Elevations on Manuscript checked by (II) (III): — Date:

COMM-DC-57842

FORM 181c
(4-23-54)

DESCRIPTIVE REPORT - DATA RECORD

5. U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

Camera (kind or source) (III): C&GS Single lens "W"

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
55-W-8588 thru 8590	6-6-55	10:58	1:10,000 ratio	2.2' above M.L.L.W.
55-W-8606 thru 8608	"	11:09	" "	" "
55-W-9773 & 9774	9-24-55	11:45	1:25,000 contact	4.7' "
55-W-9792 & 9793	"	12:00	" "	" "

Tide (III)

	Ratio of Ranges	Mean Range	~~Spring~~ Range
Reference Station: Astoria, (Tongue Point) Oregon		6.5	8.2
Subordinate Station: Settlers Point, Oregon		6.2	7.7
Subordinate Station:			

Washington Office Review by (IV): Date:

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

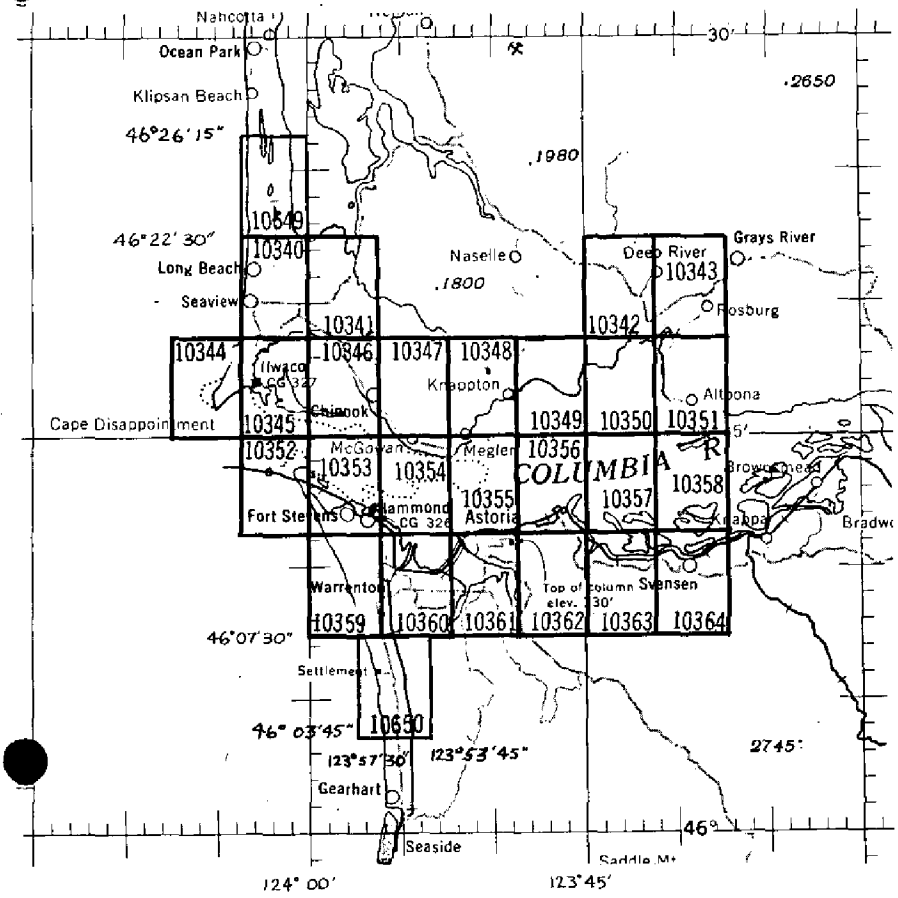
Land Area (Sq. Statute Miles) (III): 10
Shoreline (More than 200 meters to opposite shore) (III): 17
Shoreline (Less than 200 meters to opposite shore) (III): 3
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 5 Recovered: 3 Identified: 2
Number of BMs searched for (II): None Recovered: Identified:
Number of Recoverable Photo Stations established (III): None
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

COMM-DC-57842

PLANIMETRIC PROJECT PH-155

MOUTH OF COLUMBIA RIVER, WASH.-OREGON



OFFICIAL MILEAGE FOR COST ACCOUNTS		
SHEET NO.	LIN.MI. SHORELINE	AREA SQ. MILES
10340	9	10
10341	8	12
10342	4	13
10343	7	13
10344	6	2
10345	13	3
10346	11	6
10347	3	12
10348	4	11
10349	4	8
10350	6	3
10351	8	9
10352	3	1
10353	9	4
10354	3	1
10355	4	2
10356	5	5
10357	8	1
10358	21	3
10359	5	6
10360	14	11
10361	15	9
10362	8	12
10363	17	10
10364	12	12
10649	8	8
10650	4	8
TOTAL	219	193

FIELD INSPECTION REPORT

Map Manuscript T-10363

Project Ph-155

Refer to Field Inspection Report for Project Ph-155, Mouth of Columbia River to Altoona, July to November 1957. (in T-10649) AKA

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10363

Project Ph-155

Refer to the Stereoplanigraph Bridge Reports for Strips #1 and #2 which are included in the Descriptive Report for T-10352 (1957).

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T-10363 PROJECT NO. Ph-155 SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
LANGEVIEN, 1947	Oreg.N.	N.A.	929,104.22	4104.22	(895.78)		1251.0	(273.0)		
	P-183	1927	1,184,962.44	4962.44	(37.56)		1512.6	(11.4)		
DO		"	929,007.47	4007.47	(922.53)		1221.5	(302.5)		
Sub Station			1,185,110.81	110.81	(4889.19)		33.8	(1490.2)		
MILEPOST No. 95	"	"	928,483.72	3483.72	(1516.28)		1061.8	(462.2)		
(ORE) 1934	P-205		1,192,239.55	2239.55	(2760.45)		682.6	(841.4)		
DO		"	928,480.14	3480.14	(1519.86)		1060.7	(463.3)		
Sub Station			1,192,271.32	2271.32	(2728.68)		692.3	(831.7)		
JOHN DAY 2 (OREG)	G-7284	"	46 10 52.726				1628.0	(224.6)		
1947	P-1021		123 44 18.542				397.7	(889.2)		

1 FT. = 3048006 METER

COMPUTED BY: J.E.D. DATE 10-15-57 CHECKED BY: D.N.W. DATE 10-17-57

COMM-DC-57843

COMPILATION REPORT

Map Manuscript T-10363

Project Ph-155

Items 31 and 32:

Refer to Descriptive Report for T-10361 (1957).

33. Supplemental Data:

None.

34. Contours and Drainage:

Contours are not applicable.

Drainage was field inspected and verified during the Kelsh compilation assisted by reference to the U.S.G.S. 7½ minute Cathlamet Bay, Oreg. quadrangle.

Items 35 and 36:

Refer to Descriptive Report for T-10361 (1957).

37. Landmarks and Aids:

None.

38. Control for Future Surveys:

None.

39. Junctions:

Satisfactory junctions were made with T-10357 on the north, T-10362 on the west and T-10364 on the east. There is no contemporary survey to the south.

40. Horizontal and Vertical Accuracy:

Vertical accuracy is not applicable. There are no areas that are believed to be of sub-normal accuracy.

46. Comparison with Existing Maps:

Comparison was made with U.S.G.S. 7½ minute Cathlamet Bay, Oreg. quadrangle, Scale 1:24,000, published in 1949.

47. Comparison with Nautical Charts:

Comparison was made with Nautical Chart No. 6151, 34th Edition Oct. 10, 1960, Corrected through Jan. 7, 1961 and Nautical Chart No. 6002, Scale 1:180,789, 10th Edition July 9, 1942. Revised May 23, 1960, Corrected through Jan. 7, 1961.

Items to be Applied to Nautical Charts Immediately.

None.

Items to be Carried Forward:

None.

Approved:

Fred Natella, CAPT, C&GS
Portland District Officer
for
Lorne G. Taylor, CDR, C&GS

Respectfully submitted:

J. Edward Deal
Cartographer

Map Manuscript T-10363

49. Notes to the Hydrographer:

No recoverable topographic stations were located.

The triangulation stations shown were recovered and identified during field inspection.

48. Geographic Names:

Cathlamet Bay
*Fern Hill
John Day Point
John Day River
South Channel
Spokane, Portland and Seattle Railway
Walluski River

* B.G.N. Decision

George M. Bell
Geographic Names Section
26 January 1962

REVIEW REPORT
T-10352 through 10364 and T-10650
Planimetric December 18, 1961

62. Comparison with Registered Topographic Surveys

Map No.	Scale	Year	Map No.	Scale	Year
317	1:22,962	1850-51	1806	1:10,000	1887
1112	1:10,000	1868	4226	1:20,000	1926
1123	"	1868	4250	"	"
1138	"	1869	4251	"	"
1139a&b	"	1869	4263	1:10,000	1926
1234	"	1870	4264	"	"
1235	"	1870	6521a	"	"
1249	"	1870	6521b	"	1936

The manuscripts covered by this review report supersede the surveys listed above for purposes of nautical chart construction.

63. Comparison with Maps of Other Agencies

Comparison was made with the latest existing maps during the photogrammetric review. Each report lists under "Comparison with Maps, etc." the quadrangles that were used.

64. Comparison with Contemporary Hydrographic Surveys

Where applicable, each map was compared with the latest hydrographic survey. All available hydrographic surveys are unverified. Discrepancies are listed under the heading of each map. If the map is not listed, no discrepancies exist during review.

T-10352 - The submerged rocks shown on the manuscript which appear to once have been part of the jetty were compiled in the photogrammetric office from a U.S. Engineer Survey dated 1956. This feature was not developed by hydro on sheets H-8421 through H-8423. See the Descriptive Report for this survey for details.

T-10354 - A pile is shown on the manuscript above MHW whereas hydro shows this pile submerged at latitude 46°14'37" and longitude 123°55'16". The pile was field inspected.

T-10356 - A rock is shown on the manuscript as awash MHW and on hydro sheet H-8420 as (4) with a position difference of approximately 5 meters. The rock is located at latitude 46° 12'45" and longitude 123°45'18". The height of the rock was given by the field inspector.

T-10357 - Piles and/or shags shown on Chart 6151 in the vicinity of latitude 46°13'30" and longitude 123°42'30" and latitude 46°12'30" and longitude 123°42'30" are not shown on the unverified smooth sheet. They are too far offshore for photogrammetric location.

65. Comparison with Nautical Charts

Comparison was made with Charts 6151 and 6152, 34 Edition October 10, 1960 corrected June 26, 1961. Nautical Charts did not use these surveys for the construction of the new edition. Many minor changes in offshore features and planimetric detail were noted. Only dangers to navigation or significant changes in detail have been noted for each sheet.

T-10354 - Some differences were noted in shoreline features in the vicinity of Hammond at latitude 46°11'30", longitude 123°56'00". The pile area in the vicinity of latitude 46° 12'30", longitude 123°52'30" is incomplete. It is a shoal area and of no danger to navigation.

T-10361 - A difference exists in the position of a shag at latitude 46°11'03" and longitude 123°51'46" in Youngs Bay. Landmark "Drum" should be deleted from Chart as recommended on Form 567.

66. Adequacy of Results and Future Surveys

These maps comply with instructions and meet National Standards of Map Accuracy.

Respectfully submitted:

A. K. Heywood

Approved:

Chief, Review and Edit Sec.

Chief, Div. of Nautical Charts

Chief, Div. of Photogrammetry

Chief, ~~Div. of Coastal Surveys~~ Operations

NAUTICAL CHARTS BRANCH

SURVEY NO. T-10363

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.