

8607

Diag. Cht. No. 6156

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric Air Photographic
(Shoreline)

Field No. _____ Office No. T-8607

LOCALITY

State Oregon & Washington
Multnomah County, Oregon
General locality Skamania County, Washington
Locality Bonneville Dam and Vicinity

1946-'48

CHIEF OF PARTY

R.A. Earle (Field and Office)

LIBRARY & ARCHIVES

DATE

Aug 20 - 1950

B-1870-1 (1)

8607

DATA RECORD

T- 8607

Quadrangle (II): Hood River Wash.-Oreg.

Project No. (II): Ph-17(47)

Field Office: Portland, Oregon Chief of Party: R.A. Earle

Compilation Office: Portland, Ore. Chief of Party: R.A. Earle

Instructions dated (II III): 12-9-47
Amended 1-8-48
29Copy filed in *Division of*
~~Descriptive~~
~~Report No. T- (VI)~~
Photogrammetry Office Files

Completed survey received in office: 12-28-48

Reported to Nautical Chart Section: 1-5-49

Reviewed: 2-23-49 Applied to chart No. 6156 Date: 11/14/49 + 11/18/49
6157 11/21/49

Redrafting Completed: 4-24-50

Registered: 8-9-50

Published:

Compilation Scale: 1:10,000

Published Scale:

Scale Factor (III): None

Geographic Datum (III): N.A. 1927

Datum Plane (III): *50 Ft above U.S.E. adopted*
Low Water
Mean Sea Level
Upstream from Bonneville Dam pool elev.
= 72.2600 MSL
(normal)

Reference Station (III): BRADFORD 2, (Oreg.) 1938 r 1948

Lat.: 45°-38'-13.864" 428.0 m Long.: 121°-55'-36.858" 798.3 m Adjusted X
(1424.4 m) (501.2 Unadjusted
m)State Plane Coordinates (VI): *Oregon North Zone*
Washington South Zone

X =

Y =

Military Grid Zone (VI)

4/63

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
9 Lens 17244 and 17246	8-9-46	11:23	1:10,000	10.7 to 13.1 ft. above M.S.L.
Single lens 47-J-159 & 47-J-160 Inc. Nov. 1947	Unknown		1:10,000 (ratio)	Unknown (lower than above)

Tide from (III): Daily readings of the U.S.E. tide gauges located at Government Moorings, Oregon and Vancouver, Washington
 Mean Range: Spring Range:

Camera: (Kind or source) U.S.C.&G.S. 9 lens, focal length 8.25 inches.
 Metrogon lens, focal length 6 inches.

Field Inspection by: See Remarks, Page 3 date: Feb 1948

Field Edit by: None date:

Date of Mean High-Water Line Location (III): August 9, 1946 (Corrected by office inspection to the U.S. Engineers Single lens photographs made on Aug. 31st, Sept. 5th and Sept. 19th, 1948 at low water after the 1948 Columbia River flood.)

Projection and Grids ruled by (III) T.L.J. (Wash. Office) date: 2-2-48

" " " checked by: T.L.J. (Wash. Office) date: 2-2-48

Control plotted by: Frank H. Elrod date: 8-25-48

Control checked by: Marie B. Elrod date: 8-26-48

Radial Plot by: James L. Harris date: 9-17-48

Detailed by: Roy A. Davidson date: 11-2-48

Reviewed in compilation office by: J.E. Deal date: 11-17-48

Elevations on Field Edit Sheet
 checked by: date:

JH

STATISTICS (III)

Land Area (Sq. Statute Miles): 4.1

Shoreline (More than 200 meters to opposite shore): 13.1 Statute miles

Shoreline (Less than 200 meters to opposite shore): 3.8 Statute miles

Number of Recoverable Topographic Stations established: None

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles:

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

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

Remarks:

Interior Field Inspection:	John Winniford John C. Lajoie Royal Sherwood	1-13-48 to 1-16-48
Shoreline Inspection:	John C. Lajoie & John Winniford	1-27-48 to 2-13-48
Recovery of Horizontal Control:	John C. Lajoie John Winniford Charles Hanavich	1-13-48 to 1-19-48
Geographic Names:	John C. Lajoie	1-16-48 to 1-20-48

926

PH-17 (47) COLUMBIA RIVER



LEGEND

- TO BE STARTED NEXT
- IN PROGRESS
- || COMPLETED 1948 Fiscal Year
- X NOT APPLICABLE
- |||| 1949 Fiscal Year

MAP T- 8607

PROJECT NO Ph-17(47)

SCALE OF MAP 1:10,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR LONGITUDE OR ϕ -COORDINATE LONGITUDE OR λ -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS	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)
DOWN 2 (USE) 1938	G-4579 Page 514	NA 1927	45° -38' - 44.696"	1379.9 (472.5)			Used in radial
HAMILTON ISLAND LARGE BRN NEAR CENTER DOWNSTREAM CABLE (WASH.) 1938	G-4537 Page 472	NA 1927	45° -37' - 49.892"	357.6 (941.7)			plot
T2N, R7E, SECS 15 AND 22 (COUNTY END IN 1938 MONUMENT) (WASH.) 1939	G-4537 Page 474	NA 1927	45° -37' - 49.892"	1540.3 (312.1)			"
IVES, 1947	G-7298 Page 2	NA 1927	45° -37' - 17.114"	773.9 (525.7)			"
VIL 2 (USE) 1938	G-4579 Page 514	NA 1927	45° -39' - 04.508"	139.2 (1713.2)			"
ALDRICH (WASH.)	G-4537 Page 452	NA 1927	45° -55' - 17.873"	387.0 (912.2)			"
1901 r. 1938	G-4537 Page 452	NA 1927	45° -37' - 17.114"	528.4 (1324.0)			"
MOFFAT (WASH.)	G-4537 Page 452	NA 1927	45° -59' - 44.721"	968.8 (331.0)			"
1901 r. 1939	G-4537 Page 452	NA 1927	45° -38' - 00.033"	1.0 (1851.4)			"
BRADFORD 2	Office Comp.	NA 1927	45° -57' - 56.702"	1228.2 (71.4)			"
RIM #1, 1938	G-4579 Page 514	NA 1927	45° -39' - 13.262"	409.4 (1442.9)			"
RIM (USE) 1935	G-4537 Page 452	NA 1927	45° -58' - 43.099"	933.2 (365.9)			"
BRADFORD SLOUGH ENTRANCE LIGHT (OREG.) 1939	G-4537 Page 475	NA 1927	45° -40' - 23.466"	724.5 (1127.9)			"
BONNEVILLE ELEVAT- ED SILVER TANK (OREG.) 1938	G-4537 Page 473	NA 1927	45° -56' - 32.104"	694.9 (603.8)			"
TANNER, (OREG.) 1938	G-4537 Page 452	NA 1927	45° -38' - 13.79 "	425.6 (1426.8)			"
	G-4579 Page 514	NA 1927	45° -55' - 36.78 "	796.9 (502.6)			"
	G-4537 Page 475	NA 1927	45° -37' - 26.588"	820.9 (1031.5)			"
	G-4537 Page 473	NA 1927	45° -58' - 38.360"	831.0 (468.8)			"
	G-4537 Page 473	NA 1927	45° -38' - 34.027"	1050.5 (801.9)			"
	G-4537 Page 473	NA 1927	45° -55' - 19.266"	1066.9 (232.5)			"
	G-4537 Page 473	NA 1927	45° -38' - 15.655"	483.3 (1369.1)			"
	G-4537 Page 473	NA 1927	45° -57' - 09.536"	206.5 (1092.9)			"
	G-4537 Page 452	NA 1927	45° -37' - 48.478"	1496.7 (355.7)			"
	G-4537 Page 452	NA 1927	45° -57' - 15.822"	992.6 (307.1)			"

1 FT. = 3048008 METERS

COMPUTED BY: F.H. EITROD

DATE 8/10/48

CHECKED BY: J.E. Deal & R.R. Skadseg

DATE 8/13/48

M-2388-12

MAP T-8607

PROJECT NO. Ph-17(47)

SCALE OF MAP 1:10,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ϕ -COORDINATE LONGITUDE OR λ -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)
END 2 (USE) 1938	G-4579 Page 514	NA	45° - 38' - 20.246"	625.1 (1227.3)			Recovered, not used in radial plot
	G-4579	1927	121° - 57' - 35.412"	767.0 (532.5)			" "
FLUSH (USE) 1938	G-4579 Page 514	NA	45° - 38' - 29.028"	896.2 (956.2)			" "
	G-4579	1927	121° - 57' - 33.267"	720.5 (578.9)			
FOO (USE) 1938	G-4579 Page 515	NA	45° - 38' - 47.247"	1458.7 (393.7)			Not searched for
	G-4579	1927	121° - 56' - 48.604"	1052.5 (246.8)			
NOSE (USE) 1938	G-4579 Page 514	NA	45° - 38' - 33.057"	1020.6 (831.8)			" "
	G-4537	1927	121° - 57' - 09.147"	198.1 (1101.3)			
BONNEVILLE U.S.E. HEADQUARTERS FLAG POLE (Oreg) 1938	G-4537 Page 473	NA	45° - 38' - 06.179"	190.8 (1661.6)			Recovered, not used in radial plot
	G-4537	1927	121° - 57' - 06.652"	144.1 (1155.5)			
BONNEVILLE U.S.E. HEADQUARTERS CUPOLA FLAGSTAFF (Oreg) 1938	G-4537 Page 473	NA	45° - 38' - 04.908"	151.5 (1700.9)			" "
	G-4537	1927	121° - 57' - 05.604"	121.4 (1178.1)			
BONNEVILLE FISH HATCHERY CUPOLA (Oreg.) 1938	G-4537 Page 472	NA	45° - 38' - 03.19 "	98.5 (1753.9)			" "
	G-4537	1927	121° - 57' - 14.68 "	318.0 (981.6)			
BONNEVILLE FISH HATCHERY FLAG POLE (Oreg) 1938	G-4537 Page 472	NA	45° - 38' - 02.30 "	71.0 (1781.4)			" "
	G-4579	1927	121° - 57' - 17.07 "	369.7 (929.9)			" "
LAB (USE) 1938	G-4579 Page 514	NA	45° - 38' - 17.415"	537.7 (1314.7)			" "
	G-4537	1927	121° - 57' - 17.561"	380.3 (919.1)			
RAILROAD SEMAPHORE (RED ARM) TRACK NEAR TANNER (Oreg) 1938	G-4537 Page 474	NA	45° - 37' - 48.822"	1507.3 (345.1)			" "
	G-4537	1927	121° - 57' - 46.603"	1009.5 (290.2)			
BON (USE) (Oreg) 1938	G-4537 Page 468	NA	45° - 38' - 03.821"	118.0 (1734.4)			" "
	G-4579	1927	121° - 57' - 30.273"	655.7 (643.9)			
TAN 2 (USE) 1938	G-4579 Page 514	NA	45° - 37' - 43.460"	1341.7 (510.7)			" "
	G-4579	1927	121° - 58' - 02.560"	55.5 (1244.3)			

1 FT. = 3048004 METERS

COMPUTED BY: F. H. Elrod

DATE 9/17/48

CHECKED BY: J.E. Deaf & J.L. Harris DATE 9/21/48

M-2348-12

MAP T. 8607

PROJECT NO. Ph-17(47)

SCALE OF MAP 1:10,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR LONGITUDE OR ϕ -COORDINATE LONGITUDE OR λ -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
BONNEVILLE CIVIC CENTER, NO. 1938	G-4537 Page 473	NA	45° - 38' - 08.364"	258.2 (1594.2)			Used in radial
GABLE (OREG) 1938		1927	121° - 57' - 04.832"	104.7 (1194.9)			plot
PORTLAND-SPOKANE AIRWAY BEACON NO. 3B (Wash.) 1939	G-4537 Page 474	NA	45° - 39' - 46.486"	1435.2 (417.2)			"
		1927	121° - 55' - 35.421"	766.8 (532.1)			"
NORTH AXIS (USE) (Wash.) 1939	G-4537 Page 468	NA	45° - 38' - 47.839"	1476.9 (375.4)			"
		1927	121° - 56' - 22.336"	483.7 (815.6)			"
RIM (USE) 1935	G-4579 Page 513	NA	45° - 37' - 26.588"	820.9 (1031.5)			"
		1927	121° - 58' - 38.360"	831.0 (468.8)			"
CASCADE LOCKS CHURCH, NEAR SCHOOL (Oreg.) 1939	G-4537 Page 475	NA	45° - 40' - 10.365"	320.0 (1532.4)			"
		1927	121° - 53' - 23.385"	506.2 (792.5)			"
BRADFORD 2. (Oreg.) 1938	G-4537 Page 452	NA	45° - 38' - 13.864"	428.0 (1424.4)			Recovered, not used in radial plot.
		1927	121° - 55' - 36.858"	798.3 (501.2)			"
BENCH MARK T44 (Wash.) 1939	G-4537 Page 475	NA	45° - 39' - 10.834"	334.5 (1517.9)			"
		1927	121° - 55' - 04.115"	89.1 (1210.0)			"
BRADFORD (Oreg.) 1901 r. 1938	G-4537 Page 468	NA	45° - 38' - 08.284"	255.8 (1596.6)			"
		1927	121° - 55' - 45.731"	990.5 (309.0)			"
ROC (USE) 1935	G-4579 Page 513	NA	45° - 37' - 17.007"	525.1 (1327.3)			"
		1927	121° - 59' - 06.428"	139.3 (1160.6)			"
WAR (USE) 1935	G-4537 Page 468	NA	45° - 36' - 56.398"	1741.2 (111.2)			"
		1927	121° - 59' - 54.315"	1176.8 (123.2)			"
FLY (USE) 1935	G-4579 Page 513	NA	45° - 37' - 43.491"	1342.7 (509.7)			"
		1927	121° - 58' - 25.750"	557.8 (741.9)			"
LOG (USE) 1935-38	G-4579 Page 514	NA	45° - 37' - 50.615"	1562.6 (289.8)			"
		1927	121° - 58' - 07.143"	154.7 (1144.9)			"

1 FT. = 3048008 METERS
COMPUTED BY F.H. Elrod

DATE 9/16/48

CHECKED BY: J.E. Deal and J.L. Harris
DATE 9/21/48

M-2388-12

940

T-8607

For Field Inspection Report and Compilation Report
see Descriptive No. T-8875.

GEOGRAPHIC NAMES

Survey No. T-8607

GEOGRAPHIC NAMES											
Survey No. T-8607											
		On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
1	Name on Survey	A	B	C	D	E	F	G	H	K	
	Oregon									USGB 1	
	Multnomah County									2	
	Hood River County									3	
	Washington									USGB 4	
	Skamania County									5	
	Columbia River									6	
	Union Pacific									7	
	Spokane Portland and Seattle									8	
	Columbia River Highway U.S. No. 30									9	
	Evergreen Highway U.S. No. 830									10	
	New Columbia River Highway									11	
	McGord Creek									USGB 12	
	John B. Yeon State Park									13	
	Moffett Creek									USGB 14	
	Tanner Creek									15	
	Bonneville									16	
	Tanner Creek Fishway									17	
	Bradford Island									18	
	Bradford Channel									19	
	Eagle Creek									20	
	Eagle Creek Park									21	
	Boat Rock									22	
	Picture Rock									23	
	Bonneville Dam									24	
	Bonneville Dam Spillway									25	
	North Bonneville									26	
	Bonneville Sanitarium									27	

M 234

GEOGRAPHIC NAMES

Survey No. T-8607

2 Name on Survey

	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
A	B	C	D	E	F	G	H	K	
<u>Greenleaf Slough</u>									1
<u>Hamilton Creek</u>									2
<u>Hamilton Island</u>									3
<u>Pierce Island</u>									4
Names underlined in red are approved. 1/7/49 L. Heck									5
									6
									7
									8
									9
									10
									11
									12
									13
									14
									15
									16
									17
									18
									19
									20
									21
									22
									23
									24
									25
									26
									27

67

Division of Photogrammetry
Review Report of
Shoreline map manuscript T-8607

Subject numbers not used in this report have been adequately covered in other parts of the descriptive report.

28. Detailing

Only minor changes and additions were necessary to complete the map manuscript.

44. Comparison with Existing Topographic Surveys

7030 a(1:10,000) and b(1:5,000) 1946-47

T-8607 supersedes this survey for nautical charting purposes.

45. Comparison with Contemporary Hydrographic Surveys

H-7123 1:5,000 1947

45. Comparison with Nautical Charts

6156 1:40,000 (48 - 11/22)

There are some minor disagreements between map manuscript T-8607 and the same area depicted on Nautical Chart 6156 (1:40,000). The insert of Bonneville Dam and vicinity in particular (Scale 1:10,000) is in poor agreement with the detail as shown on T-8607. Most noticeable are the disagreements in shoreline, buildings and roads. This condition warrants correction of Nautical Chart 6156 for the next printing. (See also review report T-8875). The Nautical Chart Branch was notified on 21 February 1949.

51. Applications to Nautical Charts

This map manuscript has not been applied to Nautical Chart 6156 as of the date of this review report. (See recommendations under No. 45).

Reviewed by:

J. J. Streifley
J. J. Streifley 23 Feb. 1949

Approved by:

S. V. Griffith
S. V. Griffith *F.H.M.*
Chief, Review Section

A. R. Edmonston
Chief, Nautical Chart Branch
Division of Charts

O. S. Reading
Chief, Div. of Photogrammetry

W. M. Lafe
Chief, Div. of Coastal Surveys
94

V JFW

SURVEY NO. T-8607

Record of Application to Charts

[illegible]

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.