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Diag'd. on Diag. Ch. No. 6157 (Insert)

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey Planimetric Air Photographic  
Shoreline  
Field No. Ph-2 (45) Office No. T-8853, T-8854  
T-8855 & T-8856

### LOCALITY

State Washington  
General locality F.D. Roosevelt Lake  
Locality From Hellgate Canyon to Sixmile Cr.

1946-'47

CHIEF OF PARTY

J.T. Jarman

LIBRARY & ARCHIVES

DATE November 10, 1949

8-1870-1 (11)

## DATA RECORD

T-8853

Quadrangle (II): WILBUR, WASHINGTON (U.S.E.) Project No. (II): Ph-2(45)  
 30 minute 1:125,000

Field Office: Coulee Dam, Wash. Chief of Party: J.T. Jarman

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

Instructions dated (II III): 4-3-47

Copy filed in <sup>Division of</sup> ~~Descriptive~~  
~~Report No. T-~~ <sup>(VI)</sup>  
 Photogrammetry Office Files

Completed survey received in office: 11 Mar. 1948

Reported to Nautical Chart Section: 18 Mar. 1948

Reviewed: 29 Dec. 1948 Applied to chart No. Date:

Redrafting Completed: —

Registered: 19 Oct. 1949

Published:

Compilation Scale: 1:10,000

Published Scale:

Scale Factor (III): None

Geographic Datum (III): N.A. 1927

Datum Plane (III): <sup>Normal Pool Elevation</sup> Mean Sea Level (USBR)  
 1298' above (USBR)  
 1288.5 ± USCGS, 1929

Reference Station (III): SHERMAN, 1936 r 1947

Lat.: 47° 52' 01.510" (46.6m) Long.: 118° 34' 26.406" (548.8m) Adjusted X  
 Unadjusted

State Plane Coordinates (VI): Washington, North Zone

X = 1,685,377.03

Y = 220,007.43

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
9 lens				
17378 to 17380 Inc.	8/21/46	12:02 PST	1:10000	1259.65 above M.S.L.
17431 to 17434 Inc.	8/22/46	10:52 PST	1:10000	1289.65 above M.S.L.
17456 to 17458 Inc.	8/22/46	11:28 PST	1:10000	1289.65 above M.S.L.
U.S. Army				
Single lens				
16-2 & 20-2		Unknown	1:20000	Unknown
78-2 & 80-2		Unknown	1:20000	Unknown
13-3 to 16-3		Unknown	1:20000	Unknown

Tide from (III): None

Mean Range: None

Spring Range: None

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

Field Inspection by: J.T. Jarman	date: Summer 1947
Interior - John Winniford	6-13-47
Shoreline - John Lajoie	7-14-47
Field Edit by: None	Geo. Names - John Winniford date: 6-13-47

Date of Mean High-Water Line Location (III): 8-22-46

Projection and Grids ruled by (III) Washington Office	date: July 1947
" " " checked by: Washington Office	date: July 1947
Control plotted by: Helen Letson	date: Sept. 11, 1947
Control checked by: J.E. Deal	date: Sept. 18, 1947
Radial Plot by: James L. Harris & J.E. Deal	date: Sept. 30, 1947
Detailed by: M. Elrod	date: Nov. 12, 1947
Reviewed in compilation office by: Ree H. Barron	date: Nov. 26, 1947
Elevations on Field Edit Sheet	
checked by: None	date:

STATISTICS (III)

Land Area (Sq. Statute Miles): 31.0 (Complete detail along shoreline)  
(Skeleton detail interior)

Shoreline (More than 200 meters to opposite shore): 16 statute miles

Shoreline (Less than 200 meters to opposite shore): 5 statute miles

Number of Recoverable Topographic Stations established: 3

Number of Temporary Hydrographic Stations located by radial  
plot: 67

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:

## DATA RECORD

T-8854

Quadrangle (II): Davenport, Wash. (USE)  
30 minute 1:125000

Project No. (II): Ph-2(45)

Field Office: Coulee Dam, Wash. Chief of Party: J.T. Jarman

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

Instructions dated (II III): 4/3/47

Copy filed in <sup>Division of</sup> ~~Descriptive~~  
~~Report No. T-~~ (VI)  
Photogrammetry Office Files

Completed survey received in office: 11 Mar. 1948

Reported to Nautical Chart Section: 18 Mar. 1948

Reviewed: 4 Jan. 1949

Applied to chart No.

Date:

Redrafting Completed: —

Registered: 19 Oct. 1949

Published:

Compilation Scale: 1:10000

Published Scale:

Scale Factor (III): None

Geographic Datum (III): N.A. 1927

Datum Plane (III): <sup>Normal Pool Elevation, 1937</sup>  
<sup>12.90' above</sup> Mean Sea Level (USBR) =  
1288.5 ± USC EGS, 1929

Reference Station (III): WELSH (USBR) 1934 r 1947

Lat.:  $47^{\circ} 49' 52.339''$  (1616.5m) Long.:  $118^{\circ} 26' 26.437''$  (549.8m) Adjusted  
Unadjusted

State Plane Coordinates (VI): Washington, North Zone

X = 2,587,607.55

Y = 312,332.18

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>water level of lake</u> <u>Stage-of-tide</u>
Nine Lens				
17381 & 17382	8-21-46	12:03 P.S.T.	1:10000	1289.65 above M.S.L.
17460 to 17461	8-22-46	11:29 P.S.T.	1:10000	1289.65 above M.S.L.
17479 & 17480	8-22-46	11:55 P.S.T.	1:10000	1289.65 above M.S.L.
U.S. Army				
Single Lens				
11-3 & 12-3	1944	Unknown	1:20,000	Unknown
30-4 & 33-4	1944	Unknown	1:20,000	Unknown

Tide from (III): None

Mean Range: None Spring Range: None

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

Field Inspection by: J.T. Jarman	date: Summer 1947
Interior, John Winniford	date: 6-16-47
Shoreline, John Lajoie	date: 7-28-47
Field Edit by: (none) Geo. Names, John Winniford	date: 6-16-47

Date of Mean High-Water Line Location (III): 8-22-46

Projection and Grids ruled by (III) Washington Office	date: July 1947
" " " checked by: " "	date: July 1947
Control plotted by: Helen Letson	date: Sept. 10, 1947
Control checked by: J.E. Deal	date: Sept. 15, 1947
Radial Plot by: J.L. Harris & J.E. Deal	date: Oct. 14, 1947
Detailed by: Helen Letson	date: Dec. 8, 1947
Reviewed in compilation office by: R.H. Barron	date: Dec. 16, 1947
Elevations on Field Edit Sheet	
checked by: None	date:

STATISTICS (III)

Land Area (Sq. Statute Miles): 37.5 sq. mi. {complete detail along shoreline}  
{skeleton detail interior}

Shoreline (More than 200 meters to opposite shore): 20.2 Statute miles

Shoreline (Less than 200 meters to opposite shore): 1 Statute mile

Number of Recoverable Topographic Stations established: 4

Number of Temporary Hydrographic Stations located by radial  
plot: 44

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:

## DATA RECORD

T-8855

Quadrangle (II): Davenport, Wash. (U.S.E.)  
30 minute 1:125000

Project No. (II): Ph-2(45)

Field Office: Coulee Dam, Wash. Chief of Party: J. T. Jarman

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

Instructions dated (II III): 4/3/47

Copy filed in <sup>Division of</sup> ~~Descriptive~~  
Report No. T-<sup>(VI)</sup>  
~~Photogrammetry Office Files~~

Completed survey received in office: 11 Mar. 1948

Reported to Nautical Chart Section: 18 Mar. 1948

Reviewed: 6 Jan. 1949 . Applied to chart No.

Date:

Redrafting Completed: —

Registered: 19 Oct. 1949

Published:

Compilation Scale: 1:10000

Published Scale:

Scale Factor (III): None

Geographic Datum (III): N.A. 1927

Datum Plane (III): Mean Sea Level (USBR) =  
Normal Pool Elevation,  
1290' above 1937  
1288.5 USCGS, 1929

Reference Station (III): EMERSON (USBR) 1934 r 1947

Lat.:  $47^{\circ} 52' 13.301''$  (410.8m) Long.:  $118^{\circ} 20' 22.876''$  (475.4m) Adjusted x  
Unadjusted

State Plane Coordinates (VI): Washington, North Zone

X = 2,611,938.04

Y = 327,395.01

Military Grid Zone (VI)

copy file  
photostat



PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Water level of lake.</u> <u>Stage of Tide</u>
9 lens				
17424 to 17427	8/22/46	10:46 P.S.T.	1:10000	1289.65 above M.S.L.
17463 to 17466	8/22/46	11:33 P.S.T.	1:10000	1289.65 above M.S.L.
17475 to 17478	8/22/46	11:53 P.S.T.	1:10000	1289.65 above M.S.L.
U. S. Army				
Single Lens				
7-3 & 8-3	1944	Unknown	1:20000	Unknown
34-4 to 37-4	1944	Unknown	1:20000	Unknown
4-4 & 50-4	1944	Unknown	1:20000	Unknown
75-4 to 78-4	1944	Unknown	1:20000	Unknown

Tide from (III): None

Mean Range: None

Spring Range: None

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

Field Inspection by: J. T. Jarman	date: Summer 1947
Interior, John Winniford	date: 6-18-47
Shoreline, John Lajoye	date: 8-7-47
Field Edit by: (none) Geo. Names, John Winniford	date: 6-18-47

Date of Mean High-Water Line Location (III): 8-22-46

Projection and Grids ruled by (III) Washington Office	date: July 1947
" " " checked by: Washington Office	date: July 1947
Control plotted by: Helen Letson	date: Sept. 9, 1947
Control checked by: J. E. Deal	date: Sept, 10, 1947
Radial Plot by: J.L.Harris & J.E.Deal	date: Oct. 14, 1947
Detailed by: Roy A. Davidson	date: Nov. 17, 1947
Reviewed in compilation office by: Ree H. Barron	date: Dec. 8, 1947
Elevations on Field Edit Sheet	
checked by: none	date:

STATISTICS (III)

Land Area (Sq. Statute Miles): 31.2 (Complete detail along shoreline)  
(Skeleton detail interior)

Shoreline (More than 200 meters to opposite shore): 18.5

Shoreline (Less than 200 meters to opposite shore): 1.5

Number of Recoverable Topographic Stations established: 2

Number of Temporary Hydrographic Stations located by radial  
plot:44

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:

## DATA RECORD

T-8856

Quadrangle (II): Davenport, (U.S.E.)  
30 minute 1:125000

Project No. (II): Ph-2(45)

Field Office: Coulee Dam, Washington Chief of Party: J. T. Jarman

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

Instructions dated (II III): 4/3/47

Copy filed in *Division of*  
~~Report No. T-~~ *Descriptive*  
*Photogrammetry Office Files* (VI)

Completed survey received in office: 11 Mar. 1948

Reported to Nautical Chart Section: 18 Mar. 1948

Reviewed: 13 Jan. 1949 Applied to chart No. Date:

Redrafting Completed: —

Registered: 19 Oct. 1949

Published:

Compilation Scale: 1:10000

Published Scale:

Scale Factor (III): None

Geographic Datum (III): N.A. 1927

Datum Plane (III): *Normal Pool Elevation*  
*1290' above* Mean Sea Level (USBR) =  
1288.5 USCGS, 1929

Reference Station (III): LANTZY (USBR) 1935 r 1947

Lat.:  $47^{\circ} 54' 27.874''$  (860.9m) Long.:  $118^{\circ} 19' 57.308''$  (1190.1m) Adjusted x.  
Unadjusted

State Plane Coordinates (VI): *Washington, North Zone*

X = 2,613,237.29

Y = 341,080.01

Military Grid Zone (VI)

*copy ch 9/66*

# PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Water level of lake.</u> <u>Stage-of-Tide</u>
17383 to 17385 Inc.	8/21/46	12:06 P.S.T.	1:10000	1289.65 above M.S.L.
17493	8/22/46	12:22 P.S.T.	1:10000	1289.65 above M.S.L.
17501 to 17504 Inc.	8/22/46	12:56 P.S.T.	1:10000	1289.65 above M.S.L.
17610 to 17613 Inc.	8/27/46	9:03 P.S.T.	1:10000	1289.61 above M.S.L.
U.S. Army Single lens				
92-1 to 95-1 Inc.	1944	Unknown	1:20000	Unknown
4-2 to 10-2 Inc.	1944	Unknown	1:20000	Unknown
87-2 to 92-2 Inc.	1944	Unknown	1:20000	Unknown
5-3 & 6-3 Inc.	1944	Unknown	1:20000	Unknown

Tide from (III): None

Mean Range: None

Spring Range: None

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

Field Inspection by: J. T. Jarman	date: Summer 1947
Interior: John Winniford	date: 6-20-47
Shoreline: John Lajoie	date: 8-18-47
Field Edit by: (none) Geo. Names: John Winniford	date: 6-20-47

Date of Mean High-Water Line Location (III): 8-22-46

Projection and Grids ruled by (III) Washington Office	date: July 1947
" " " checked by: " "	date: July 1947
Control plotted by: Helen Letson	date: Sept. 10, 1947
Control checked by: J.E. Deal	date: Sept. 11, 1947
Radial Plot by: J.L. Harris & J.E. Deal	date: Oct. 14, 1947
Detailed by: Carita Wiebe	date: Dec. 28, 1947
Reviewed in compilation office by: Ree H. Barron	date: Jan. 13, 1948
Elevations on Field Edit Sheet checked by: None	date:

STATISTICS (III)

Land Area (Sq. Statute Miles): 10 { Complete detail along shoreline }  
{ Skeleton detail over portion of }  
{ interior area }

Shoreline (More than 200 meters to opposite shore): 15.0

Shoreline (Less than 200 meters to opposite shore): None

Number of Recoverable Topographic Stations established: 2

Number of Temporary Hydrographic Stations located by radial  
plot: 42

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:

MAP T-8853

PROJECT NO. Ph2(45)

SCALE OF MAP 1:10000

SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\mu$ -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 (BACK)
WHITESTONE 1934 r 1947	G 6760 USBR 1039	N.A. 1927	47° 53' 59.903"	1850.2 (3.0)			Used in radial plot
SHERMAN 1936 r 1947	G 6761 USC&GS 1087	"	118° 33' 12.822"	266.3 (979.9)			"
HETL GATE 1934 r 1947	G 6760 USBR 1038	"	47° 52' 07.510"	46.6 (1806.5)			"
SIMONS 1934 r 1947	G 6760 USBR 1039	"	118° 34' 26.406"	548.8 (698.2)			"
JIM 1934 r 1947	G 6760 USBR 1039	"	47° 56' 27.668"	854.6 (998.6)			"
CP #49 (UR1664+98.69) USBR 1934 r 1947	G 6760 USBR 1039	"	118° 35' 27.199"	564.5 (680.7)			"
CP #48 (UR1471+41.68) 1934 r 1947	G 6760 USBR 1039	"	47° 51' 46.964"	1450.5 (402.6)			"
CP #54 (UR1716+51.78) 1934 r 1947	G 6760 USBR 1039	"	118° 30' 33.727"	701.0 (546.1)			"
CP #57 (UR1960+10.40) 1934 r 1947	G 6760 USBR 1039	"	47° 56' 25.685"	793.3 (1059.9)			"
CP #61 (UR2120+83.36) 1934 r 1947	G 6760 USBR 1039	"	118° 30' 26.001"	539.6 (705.6)			"
CP #51 (UR1701+58.64) 1934 r 1947	G 6760 USBR 1039	"	47° 55' 19.992"	617.5 (1235.7)			"
CP #53 (UR1789+20.22) 1934 r 1947	G 6760 USBR 1039	"	118° 35' 56.241"	1167.6 (78.0)			"
			47° 55' 59.392"	1834.4 (18.8)			"
			118° 32' 23.557"	489.1 (756.7)			"
			47° 52' 45.896"	1417.5 (435.6)			"
			118° 30' 28.338"	588.8 (657.9)			"
			47° 54' 58.835"	1817.1 (36.0)			"
			118° 32' 56.432"	1171.7 (74.1)			"
			47° 52' 30.417"	939.4 (913.7)			Not used in radial plot
			118° 32' 25.945"	559.9 (686.9)			Used in radial plot
			47° 55' 29.606"	914.4 (938.7)			"
			118° 35' 09.653"	200.4 (1045.2)			"
			47° 55' 33.004"	1019.4 (833.8)			"
			118° 34' 42.113"	874.3 (361.3)			"

1 FT. = 3048006 METER

COMPUTED BY: J.L. Harris

DATE: July 1947

CHECKED BY: C. Wiebe &amp; F.H.E.

August 1947

DATE: July 1947

M. 2388-12

MAP T. 8853 PROJECT NO. Ph2(45) SCALE OF MAP 1:10:000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\phi$ -COORDINATE LONGITUDE OR $\lambda$ -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)
CP #52 (UL1639+28.22) 1934	Field Comp.	N.A. 1927	47° 53' 24.181" 118° 32' 00.312"	746.8 (1106.3) 06.5 (1240.0)			Not used in radial plot
FORK PINE 1934	G 6760 USER 1067	"	47° 53' 29.649" 118° 31' 58.999"	915.7 (937.4) 1225.6 (20.8)			Used in radial plot
WHITE ROCK 1934	G 6760 USER 1067	"	47° 53' 45.000" 118° 32' 37.327"	1389.9 (463.3) 775.4 (471.0)			Not used in radial plot
CP #44 (UL1356+40.65)	Field Comp.	"	47° 56' 10.638" 118° 34' 51.416"	328.5 (1524.6) 1067.2 (178.1)			No report plotted for hydrographic use
CP #46A (UL1416+04.05)	"	"	47° 56' 27.419" 118° 33' 31.857"	846.9 (1006.3) 661.2 (584.1)			"
CP #50 (UL1555+23.04)	"	"	47° 54' 43.152" 118° 31' 41.407"	1332.8 (520.4) 859.8 (386.1)			"
CP #55 (UR1895+02.85)	"	"	47° 55' 17.525" 118° 33' 11.467"	541.3 (1311.9) 238.1 (1007.6)			"
CP #59 (UR2052+02.58)	"	"	47° 53' 32.525" 118° 32' 54.277"	1004.5 (848.6) 1127.6 (118.9)			"
CP #42 (UL1268+04.26)	"	"	47° 56' 04.191" 118° 36' 37.377"	129.5 (1723.7) 775.8 (469.6)			"
CP #63 (UR2241+81.28)	"	"	47° 52' 10.907" 118° 30' 04.157"	336.9 (1516.2) 86.6 (1160.0)			Not used in rad- ial plot, plotted for use of Hydro- graphic party

MAP T. 8854

PROJECT NO. Ph 2(45)

SCALE OF MAP 1:10000

SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\phi$ -COORDINATE LONGITUDE OR $\lambda$ -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	
				FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
CP#60 (UL1876+89.70) 1934 r. 1947	Field Comp.	N. A. 1927	47° 52' 42.857" 118° 27' 08.938"	1323.6	(529.5)				Used in radial	
CP#62 (UL 1947+28.77) 1934 r. 1947	"	"	47° 51' 37.843" 118° 26' 50.309"	185.7	(1061.0)				plot	
CP#69 (UR2503+40.70) 1935 r. 1947	"	"	47° 50' 20.146" 118° 26' 38.573"	1168.8	(684.3)				"	
HOUSTON 1934 r. 1947	G6760 USER 1039	"	47° 51' 24.330" 118° 28' 39.855"	1045.7	(201.4)				"	
BANK 1934 r. 1947	G6760 USER 1040	"	47° 50' 44.860" 118° 25' 40.824"	622.2	(1230.9)				"	
LUNDSTROM 1934 r. 1947	G6760 USER 1039	"	47° 51' 21.920" 118° 29' 44.642"	802.1	(445.6)				"	
JACOBSEN 1934 r. 1947	G6760 USER 1040	"	47° 49' 31.368" 118° 24' 10.750"	751.4	(1101.7)				"	
WEISH 1934 r. 1947	G6760 USER 1039	"	47° 49' 52.339" 118° 26' 26.437"	828.5	(418.7)				"	
NACMI 1934 r. 1947	G6760 USER 1040	"	47° 51' 11.037" 118° 26' 18.482"	1385.5	(467.6)				"	
CROSSOVER 1934 r. 1947	G6760 USER 1039	"	47° 52' 00.736" 118° 27' 43.255"	848.8	(398.7)				"	
CASTLE T.S. 1934 r. 1947	G6760 USER 1068	"	47° 52' 36.621" 118° 26' 40.346"	677.0	(1176.1)				"	
				927.4	(319.0)				"	
				968.8	(884.3)				"	
				223.6	(1024.4)				"	
				1616.5	(236.6)				"	
				549.8	(698.0)				"	
				340.9	(1512.3)				"	
				384.2	(863.1)				"	
				22.7	(1830.4)				"	
				899.0	(348.0)				"	
				1131.0	(722.1)				Not used in	
				838.4	(408.4)				radial plot	

1 FT. = 3048006 METER

COMPUTED BY: J. L. Harris

DATE 8/22/47

CHECKED BY: F.H.E]rod

DATE 8/22/47

M. 2388-12

C. H. J.





MAP T. 8855

PROJECT NO. Ph2(4.5)

SCALE OF MAP 1:10,000

SCALE FACTOR

None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\nu$ -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)
CP #66 (UL2112+47.16) 1935 <i>r. 1947</i>	Field Comp.	N. A. 1927	47° 50' 33.608"	1038.0 (815.1)			Used in radial
CP #75 (UR2728+77.42) 1935 <i>r. 1947</i>	"	"	118° 23' 41.387"	860.6 (387.0)			plot
CP #79 (UR2881+27.74) 1935 <i>r. 1947</i>	"	"	47° 49' 15.603"	481.9 (1371.2)			"
CP #77 (UR2799+36.18) 1935 <i>r. 1947</i>	"	"	118° 22' 22.225"	462.3 (785.8)			"
CP #81 (UR2958+73.94) 1934 <i>r. 1947</i>	"	"	47° 48' 48.212"	1489.0 (364.1)			"
CP #85 (UR3085+68) 1934 <i>r. 1947</i>	"	"	118° 19' 41.203"	857.2 (391.1)			"
CP #87 (UR3171+14.81) 1934 <i>r. 1947</i>	"	"	47° 48' 51.587"	1593.3 (259.8)			"
EMERSON 1934 <i>r. 1947</i>	G6760 USBR 1040	"	118° 21' 21.014"	437.2 (811.1)			"
SPIRE, SWEDE CHURCH 1935 <i>r. 1947</i>	G6760 USBR 1068	"	47° 49' 00.387"	12.0 (1841.1)			"
DUNE 1934 <i>r. 1947</i>	G6760 USBR 1040	"	118° 20' 12.929"	269.0 (979.2)			"
CHINA 1934 <i>r. 1947</i>	G6760 USBR 1040	"	47° 49' 39.800"	1229.2 (623.9)			"
Sta "Hawk Cr. Trav. 1935	G6760 USBR 1040	"	118° 21' 58.318"	1213.0 (34.9)			"
	G6760 USBR 1040	"	47° 50' 30.153"	931.3 (921.8)			"
	G6760 USBR 1040	"	118° 20' 53.613"	1114.8 (132.8)			"
	G6760 USBR 1040	"	47° 52' 13.301"	410.8 (1442.3)			"
	G6760 USBR 1040	"	118° 20' 22.876"	475.4 (771.5)			"
	G6760 USBR 1040	"	47° 52' 33.488"	1034.3 (818.8)			"
	G6760 USBR 1040	"	118° 19' 22.571"	469.0 (777.8)			"
	G6760 USBR 1040	"	47° 51' 48.836"	1508.3 (344.8)			"
	G6760 USBR 1040	"	118° 22' 23.884"	496.4 (750.7)			"
	G6760 USBR 1040	"	47° 50' 50.777"	1568.2 (284.9)			"
	G6760 USBR 1040	"	118° 23' 38.993"	810.7 (436.7)			"
	G6760 USBR 1040	"	47° 49' 06.359"	196.4 (1656.7)			Plotted for use
	G6760 USBR 1040	"	118° 20' 25.612"	532.8 (715.4)			of hydrographic party

1 FT. = 3048008 METER

COMPUTED BY: J.L. Harris

DATE 8/22/47

CHECKED BY: F.H. Elrod

DATE 8/22/47

M-2388-12

6-11-47

W.F.

MAP T. 8855.

PROJECT NO. Ph2(45)

SCALE OF MAP

1:10,000

## SCALE FACTOR

None

[illegible]

1 FT. = 3048006 METER

COMPUTED BY: J. L. Harris

DATE January 1948

CHECKED BY: R. A. Davidson

DATE January 1948

M-2388-12

Copy to [illegible]

MAP T. 8856

PROJECT NO. Ph-2(45)

SCALE OF MAP 1:10000

SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\psi$ -COORDINATE LONGITUDE OR $x$ -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	
					FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
C.P. #76 (UL2511+90.07) 1935 R. 1947		N. A. 1927	352,281.67	(828.5)	695.5	(1357.9)		Wash. North Zone	Used in radial		
MILES 1934	USHR 1041	"	47° 53' 12.523"	(1466.3)	166.1	(175.3)			plot	"	
CLIFF 1935	USER 1045	"	118° 19' 51.559"	(1691.0)	1071.2	(497.6)			"	"	
LINCOLN 1934	USER 1033	"	47° 55' 05.248"	(1423.6)	162.1	(642.3)			"	"	
LANTZY 1935	USHR 1045	"	118° 18' 36.035"	(860.9)	748.2	(992.2)			"	"	
PALCOM 1935	USHR 1041	"	47° 55' 13.906"	(1154.0)	429.5	(699.1)			"	"	
THREE MILE 1935	USER 1041	"	118° 19' 27.874"	(288.9)	603.4	(957.1)			"	"	
PEARL 1935	USHR 1041	"	47° 54' 37.363"	(1149.8)	1190.1	(703.3)			"	"	
MITRE 1935	USER 1041	"	118° 22' 13.912"	(639.9)	1154.0	(604.9)			"	"	
C.P. #72 (UL2339+94.39) 1935 R. 1947	Field Comp.	"	47° 57' 32.262"	(967.5)	288.9	(885.6)		Wash. North Zone	Not in radial		
C.P. #80 (UL2659+88.49) R. 1947	"	"	118° 20' 32.806"	(531.2)	996.4	(715.2)			plot	"	
C.P. #95 (UL3549+72.98)=C.P. 1stsr (C+00) 1935	"	"	47° 57' 32.262"	(680.6)	352.3	(1171.7)			"	"	
	"	"	2,603,096.54	(943.8)	1044.3	(479.7)			"	"	
	"	"	335,614.01	(187.2)	338.4	(1185.6)			"	"	
	"	"	2,614,928.34	(1502.2)	1502.2	(21.8)			"	"	

1 FT. = 3048006 METER

COMPUTED BY: F. H. Elrod

DATE 8/22/47

CHECKED BY: J. L. Harris

DATE 8/25/47

M-238812

copy 4A

None

**FACTOR DISTANCE  
FROM GRID OR PROJECTION LINE**

Not a

plot

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Table 1. *Continued*

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for hydro. use

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M-2388-12

FIELD INSPECTION REPORT  
Area of the Second Radial Plot  
Project PH-2(45)

1. Description of the Area:

The area of the second radial plot unit is <sup>composed</sup> comprised of 4 shoreline surveys numbered 8853 to 8856 inclusive. It includes that portion of the Franklin D. Roosevelt Lake between the San Poil and the Spokane Rivers. The Lake meanders east and west through a deep and wide canyon and roughly bisects the area.

The topography along the north and south sides of the Lake and inland is similar to that found in the area of the first radial plot unit. Heavily wooded areas are found especially on the west side of the Lake in 8855 and 8856. Wooded areas and cultivated lands are found on the east side in these sheets.

One major state highway traverses the east side of the area; State Highway No. 22, a north-south highway, it crosses the Spokane branch of the reservoir adjacent to the townsite of Miles and continues northward along the east side of the Lake. Several gravel and dirt roads extend down the canyons toward the reservoir. There are no railroads in the area.

A post office and a few buildings mark the site of Miles. The only other town is Lincoln in sheet 8854 ; its chief industry is lumber. In this vicinity tugs may be seen towing log rafts along the Lake.

The Grand Coulee Navigation Company makes daily excursions between Miles and Coulee Dam, Wn.

For additional information refer to "The Field Inspection Report, Area of the First Radial Plot" side heading 1 under the general description of the project area and paragraphs 4, 5, 6, 7, and 9.

2. Completeness of Field Inspection:

The field inspection for the clarification of details on the photographs, and for the classification and identification of roads, shoreline, buildings, et cetera, has been completed in accordance with the instructions for this Project dated 3 April 1947. For additional information see side heading 2 of the "Field Inspection Report for the Area of the First Radial Plot".

3. Interpretation of the Photographs:

Refer to this side heading of the "Field Inspection Report for the Area of the First Radial Plot".

4. Horizontal Control:

Idem

5. Vertical Control:

Idem

6. Contours and Drainage:

Idem

7. Shoreline Plane of Reference:

Idem

8. Low-Water Line:

Idem

9. Wharves and Shoreline Structures:

There are no dolphins, piling, wharves or shoreline structures in the area except for several booms and floating docks (floats), which were deleted, in the vicinity of Lincoln Mills and Miles, Wn.

10. Details Offshore from the Shoreline Plane of Reference:

In areas where the formation of the shore is granitic or basaltic, numerous submerged rocks and ledges are found or suspected. Rocks found awash or bare at the shoreline plane of reference have been noted on the field photographs. The height of rocks baring above the plane, likewise, has been noted. Sandy shoal areas are confined generally to those areas where slides have occurred.

No other offshore obstructions were found.

11. Landmarks and Aids to Navigation:

A selection of prominent objects along the shore was made and these were recommended for future charting. In addition, objects of lesser prominence were recommended because of a paucity of landmarks.

A complete investigation of <sup>all</sup> fixed aids to navigation was made in the field. They were either identified directly on the photographs if visible or by instrumental methods. Their correct names were verified from the latest edition of the "Light List - Pacific". No discrepancies were found in the Light List with regard to their distinctive markings, et cetera.

The practice of locating a topographic station by a sextant fix to other topographic or photo hydro stations was discontinued in this radial plot. Topographic stations established by instrumental methods consisted of three-point theodolite or transit fixes with check angles on triangulation stations.

All landmarks recommended for charting and fixed aids to navigation have been reported on Form 567 as well as on Form 524.

12. Hydrographic Control:

Photo hydro stations were established in accordance with the instructions for this Project. In areas of overhanging bluffs or cliffs and in areas where there were no identifiable objects on the photographs, photo hydro stations were established by ground instrumental work.

With the exception of sheet 8853, the practice of locating a photo hydro

The photo hydro stations were designated and described briefly on the field photographs in accordance with the instructions. In addition, they have been listed and described in sketch book volume 3. *List attached hereto.*

There were no landing fields or aeronautical aids in this area.

Refer to this side heading of the "Field Inspection Report, Area of the First Radial Plot, Project PH-2(45)". (According to Instructions No. 10, 14 Apr. 1947).

Name: Spokane River Bridge (local name)  
Location: Mouth of Spokane River  
Owner: Washington State Highway Commission  
Kind: Fixed  
Number of Spans: 1

Vertical clearance of lowest part above MLW - Not applicable  
 MHW - 36 feet

Date of Field Measurements: 8/14/47

There were no other overhead or submarine cable crossings over navigable waters found within the limits of this area.

A complete field investigation was made of any buildings and structures along the waterfront. Inland only those buildings and structures were identified that were visible from the water. Inland all public buildings were noted for which there was photograph coverage.

Refer to this side heading of the "Field Inspection Report, Area of the First Radial Plot...".

"Two special reports for areas Nos. 8849 to 8859 incl.; & Nos 8860 to 8872 incl."



20. Ferries:

A privately owned ferry (Lincoln Ferry) about a mile north of the mouth of the Spokane River is found in sheet 8856. The ferry is not available to the public and maintains no definite schedule of operations.

21. Field Photographs:

Refer to this side heading of the "Field Inspection Report, Area of the First Radial Plot...".

22. Symbols and Color Scheme:

Idem

Approved by:

*J. T. Jarman*  
J. T. Jarman,  
Chief of Party

Respectfully submitted:

*Charles Hanavich*  
Charles Hanavich,  
Topographic Engineer

COMPILATION REPORT  
Map Manuscripts T-8853 to 8856 Inclusive  
Area of the 2nd Radial Plot  
Project Ph-2(45)

26. Control:

Forty-one horizontal control stations were recovered and identified by the field parties for use in controlling the radial plot in the area of these four map manuscripts. Of this number, thirty-three of the objects selected for sub-stations could be identified with certainty on a majority of the photographs; however, the other eight sub-stations could only be seen on the photographs on which they were identified by the field party. The thirty-three sub-stations, which could be identified with certainty, were sufficient to control the radial plot.

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28. Detailing:

These maps were compiled in accordance with instructions for Project Ph-2(45). Features and symbols were shown as indicated in Photogrammetry Instructions No. 10, 12, and 17.

The transforming printer at the Washington Office was not in proper adjustment at the time the photographs were printed, and they could not be oriented in their entirety at the compilation table when radially plotting various types of pass points. Enough pass points, however, had been established during the radial plot so that each chamber of each photograph could be separately oriented. For at least two of the chambers on each photograph it was found necessary to de-center the photograph radially-to or from the chamber being oriented-so that the radials to the pass points and horizontal control stations in the chamber would pass through their positions on the map manuscript. Detailing was accomplished in the following manner:

1. All photo hydro signals, and shoreline pass points were radially plotted. Because of difficulties which have arisen on this and other projects, and in order to insure the accuracy of photo hydro signals, the located positions were then verified by a supervisor, and all questionable signals were rejected. (Shoreline pass points of two radial intersections are shown with green, waterproof ink circles on the reverse side of the map manuscripts.)

2. The shoreline was detailed from those photographs on which it was clearly visible and on which the bluffs were displaced outward from the center. (It might be stated that there were cases, particularly at the heads of narrow coves where displaced banks, cliffs and trees, and insufficient photograph coverage made it difficult to delineate the shoreline. In many of these places, stereoscopic vision could not be obtained. The shoreline in these areas was detailed after all photographs had been studied. It is, however, subject to minor changes by the hydrographic party.)

3. Pass points for use in detailing inshore planimetric features were located and the compilation of the sheet was completed.

4. A careful review was made of all radially plotted pass points and planimetric details.

Ozalid prints of the completed map manuscripts were furnished to the hydrographic party; however, it is recommended that they be used for reference purposes only. As many difficulties were encountered when transferring hydrographic signals and shoreline from distorted ozalid prints to boat sheets, it is hoped that the hydrographic party can be furnished boat sheets for their 1948 field work similar to those which were made for the Willamette River hydrography. (Photogrammetric Project Ph-13(46) and Hydrographic Project CS-323)



Because of insufficient photograph coverage, a small area in the northwestern part of T-8853 could not be completed to the limits of the map manuscript. In the area of T-8856 the nine lens photographs were supplemented by U. S. Army single lens photographs, Scale: 1:20000.

Whenever possible the stereoscope was used to aid in determining the location of the tops of bluffs along the shoreline. The location of these bluffs could be determined more readily from photographs on which they were displaced away from the water line and from the principal point of the photograph. Detail pass points were radially plotted near or along the tops of these bluffs so that they could be compiled as accurately as possible.

In many places it was very difficult to identify sufficient pass points for the compilation of roads. This was particularly true in areas of severe changes in relief, and in places where roads wound through dense woods. Similar conditions caused trouble in compiling the drainage, especially since the use of the stereoscope was very limited in interior areas.

Because of the numerous new roads and many changes in road alignment, it was found easier to compile all through roads as they appeared on the photographs rather than to make comparisons with old surveys and quadrangles, and to compile only the changes as suggested in the instructions for this project.

It is believed that all provisions of Paragraph 32 of the Instructions relative to drafting have been applied to the map manuscripts.

#### 29. Supplemental Data:

The following maps, which are being forwarded with the map manuscripts, were used to supplement the photographs:

Black and White Prints-- 3 each-Bureau of Reclamation Index Maps  
Nos. 7, 8, and 9, Grand Coulee Dam.

The following map, which was also used, will be forwarded when the project is completed:

Black and White Print-- Existing and Relocated Highways and  
Railroads, Scale 1"=4 miles. ✓

#### 30. Mean High-Water Line: (Lake Shoreline at the adopted plane of reference.)

A complete discussion of this feature may be found in Paragraph 7 of the "Field Inspection Report, Area of the First Radial Plot" which was forwarded on 13 February 1948.

*A profile of the reservoir water-level, from Grand Coulee Dam & the International Boundary, is attached to the Descriptive Report for the Fifth Radial Plot (T-8863 & T-8865)*



The mean high-water line (Lake shoreline at the adopted plane of reference) is shown by a continuous, black, acid ink line, 008" in thickness, at a plane 1290.0 ft. above Mean Sea Level. There are no marsh areas bordering the shoreline.

31. Low-Water and Shoal Lines:

The field inspection unit did not indicate any low-water lines within the limits of these four map manuscripts.

Approximate shoal lines have been shown by a light, dashed, black acid ink line, as indicated by the field party.

32. Details Offshore from the Mean High-Water Line:

Several, small, rocky islands are the only details offshore from the Mean High-Water Line. Many rocks, adjacent to the shoreline, have been shown. (Refer to Paragraph 10 of the Field Inspection Report.)

OS643(T-8856) =  
"red + white strips on  
stake on wreckage"  
? no note of  
"wreckage"  
in hydro  
(H-7856) records  
JH

33. Wharves and Shoreline Structures:

Refer to Paragraph 9 of the Field Inspection Report.

34. Landmarks and Aids to Navigation:

Ch. Let. No. 157 (1948)

Form 567, recommending the following landmarks for charting is attached:

HOUSE, South Gable-----T-8853 ✓  
STACK, Black, (145 ft. high)-----T-8854 ✓  
TANK, Wood, (40 ft. high)-----T-8854 ✓

Form 567, recommending the charting of the following non-floating aids to navigation is attached:

Hells Gate Island 13 Light-----T-8853 ✓  
Whitestone Creek 15 Light-----T-8853 ✓  
Upper Hells Gate Daybeacon 14-----T-8853 ✓  
Moonshine Canyon 16 Light-----T-8853 ✓  
Halverson Canyon 17 Light-----T-8854 ✓  
Goat Pasture 18 Light-----T-8854 ✓  
Hawk Creek 20 Light-----T-8855 ✓  
Rock Island Daybeacon 19-----T-8855 ✓  
Spokane River 22 Light-----T-8856 ✓  
Three Mile 21 Light-----T-8856 ✓  
Fox Canyon 24 Light-----T-8856 ✓



### 35. Hydrographic Control:

Statistics on signals in the area of these four map manuscripts are as follows:

<u>Sheet No.</u>	<u>Signals Pricked by Field Parties</u>	<u>Signals Rejected</u>	<u>Photo hydro signals</u>
8853	84	23	61
8854	51	7	44
8855	48	3	45
8856	78	11	67

In most cases, the signals selected by the field party could be identified on a majority of the photographs of the area involved. Most of the signals, which were rejected, were located in dense tree areas, or hidden by displaced cliffs or ridges, and could not be identified with certainty on enough photographs to establish strong positions. (The field party could not determine this point with alternate photographs.) Due to previous difficulties, exceptional care has been taken in pricking and radially plotting the photo hydro signals shown on these four map manuscripts. Their locations were not only verified by the reviewer and the supervisor in charge of compilation, but a final examination of this part of the work also was made by the Chief of Party, who rejected any signal on which a perfect intersection could not be obtained. These multiple checks should eliminate the difficulties which the hydrographic party encountered in the first sheets in this project.

A list of the photo hydro signals, shown on these four map manuscripts, is attached to this descriptive report.

### 36. Landing Fields and Aeronautical Aids:

There are no landing fields or aeronautical aids in this area. There is however, a small private dirt runway at Lincoln

### 37. Geographic Names:

Geographic Names are the subject of a special report, "Investigation of Geographic Names, Sheets 8849 to 8859 inclusive, Project Ph-2(45)" which has been submitted to the Washington Office by the field party.

*Lists of approved names attached to this Descrip. Rep't.*

### 38. Recoverable Topographic Stations:

Copies of Form 524 are being submitted for all of the stations listed under Item 34, "Landmarks and Aids to Navigation". No other recoverable topographic stations were selected by the field party, or radially plotted at the compilation office.

*Form 524 filed in the Div. of  
Photogr. General Files.*

39. Junctions:

Complete and satisfactory junctions have been made between all map manuscripts in this and adjacent radial plots.

40. F. D. Roosevelt Lake Reservation Line:

Please refer to Item 40 in the Descriptive Report for the 1st Radial Plot, Project Ph-2(45). *Letter 7 Nov. 1947. (Bdy. not to be delineated.)*

44. Comparisons with Existing Topographic Surveys:

All existing maps of the area were at a much smaller scale, and were made before the waters of the F. D. Roosevelt Lake were impounded. Due to these facts, only a visual comparison could be made.

45. Comparisons with Nautical Charts:

There are no nautical charts of the area.

Respectfully submitted,

*J. Edward Deal Jr.*

J. Edward Deal Jr.  
Photogrammetric Engineer

Approved after additional  
comments were added:

*Robert A. Earle*

Robert A. Earle  
Chief of Party

:jr

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEYProject Ph-2(45)  
Area of Second Radial Plot  
T-8853 to T-8856 inclusiveLANDMARKS FOR CHARTS  
(Fixed Aids to Navigation)

STRIKE OUT ONE

~~TO BE CHARTED~~  
~~TO BE DELETED~~

Coulee Dam, Washington July &amp; Aug. 19347

I recommend that the following objects which have (~~have not~~) been inspected from seaward to determine their value as landmarks, be charted on (~~deleted from~~) the charts indicated.

The positions given have been checked after listing. *J. E. Deal*

J. T. Jarman &amp; R. A. Earle

Chief of Party.

GENERAL LOCALITY		NAME AND DESCRIPTION	POSITION							METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
LATITUDE			LONGITUDE			DATUM									
O	I		D. M. METERS	O	I		D. P. METERS								
T-8853	Hells Gate Island 13 Lt.	47	55	(261.5)	118	36	(68.0)	N.A.	1927	Radial Plot	1947			Area not charted	
T-8853	Upper Hells Gate Daybeacon 14	47	55	(1789.8)	118	32	(162.8)	"	"	"	"			"	
T-8853	Whitestone Creek 15 Lt.	47	56	(1664.4)	118	32	(450.2)	"	"	"	"			"	
T-8853	Moonshine Canyon 16 Lt.	47	52	(1000.3)	118	32	(1129.1)	"	"	"	"			"	
T-8854	Halverson Canyon 17 Lt.	47	52	(426.3)	118	27	(335.9)	"	"	"	"			"	
T-8854	Goat Pasture 18 Lt.	47	50	(1035.4)	118	26	(282.0)	"	"	"	"			"	
T-8855	Hawk Creek 20 Lt.	47	49	(624.8)	118	21	(37.4)	"	"	Traverse	"			"	
T-8855	Rock Island Daybeacon 19	47	51	(804.7)	118	21	(165.6)	"	"	Radial Plot	"			"	
T-8856	Spokane River 22 Lt.	47	53	(101.1)	118	20	(1209.4)	"	"	"	"			"	
T-8856	Three Mile 21 Lt.	47	56	(1495.0)	118	21	(484.6)	"	"	"	"			"	
T-8856	Fox Canyon 24 Lt.	47	58	(1803.0)	118	20	(337.1)	"	"	"	"			"	

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.





Hydrographic Signal Sites  
Project Ph-2(45)  
Sheets 8853-8854-8855 & 8856

5301	Orange flag on stake in bush
5302	D/S of 2 pines, white banner
5302A	White flag on forked tree. (Trans. from 8851-was 5176)
5303	White rag on greasewood
5304	Large lone pine, Orange Banner
5306	White wrapped pine
5307	Red and Orange stripe on stake
5308	Small bushy pine in clearing red flag
5309	Square orange banner on lone pine
5311	White flag on dead top pine
5313	White flag on pine
5316	N. gable of gray house
5317	White flag on point of rock below bluff
5318	Sq. White Signal Cl. on tree
5319	Orange banner on dead pine
5320	Orange rag on small pine
5322	Red flag on pine tree
5323	White flag on point of rock
5324	Lone pine, top of bluff
5325	Orange flag on small bush
5326	D/S of 2 pines on grass bank in slide area
5327	Red flag on pt. of rock

5328 Orange flag on pine  
5329 White rag on greasewood bush  
5330 Red strip on snag  
5332 White strip on largest pine  
5333 Orange wrapped pine  
5334 D/S gable, tin roofed barn  
5335 Tip of rock pinnacle  
5336 White Cloth on dying pine  
5337 Center of off-lying rock  
5339 Large whitewashed rock  
5340 Red and white strips on stake in outlying rock  
5341 White rag on bush  
5345 Orange Sig. Cl. on pine  
5349 Red and white strips on stake in bush  
5351 Orange Sig. Cl. on greasewood  
5353 Lone Pine, back from shore  
5355 Orange cloth on pine  
5356 Prominent tall spindly pine  
5357 Whitewashed point of island  
5360 Dead top pine at side of old road  
5361 Small pine in cove  
5364 White Sig. Cl. on trimmed pine  
5366 Red Sig. Cl. on pine  
5367 White flag on pine nearest water  
5368 Orange and red sig. cl. on stake  
5369 Orange flag on pine  
5370 Red and white strips on lath on island  
5371 Orange and red strips on stake

- 5372 White cloth on pine
- 5373 Lone pine tree
- 5374 Orange Sig. Cl. on pine
- 5375 Bushy pine
- 5379 Small single pine
- 5381 White Sig. cloth on bush
- 5383 Red Sig. Cl. on bush
- 5385 Red and white strips on stake at W. edge of dry wash
- 5387 Yellow and white flag on stake in bush
- 5389 Red and white strips on stake in bush, side of road
- 5401A White wrapped pine
- 5401 Whitewashed rock point
- 5402 Red and white strips on stake
- 5403 Red Sig. Cl. on pine
- 5405 White Sig. Cl. on lone pine
- 5406 Red wrapped spindly pine
- 5409 Red and white strips on lath
- 5410 Bushy pine at U/S end of slide
- 5411 White flag at inshore point of small cove
- 5412 Off-shore of 2 pines, White Sig. Cl.
- 5413 Red Sig. Cl. on Pine, 2m from H.W.L.
- 5414 Red Sig. Cl. on pine on fence
- 5415 White Sig. Cl. on pine on clay bank
- 5416 White Sig. Cloth on pine
- 5419 Red Sig. Cl. on pine at H.W.L.
- 5421 White Sig. Cl. on D/S pine
- 5422 Red cloth on pine

- 5423 Orange Sig. Cl. on off-shore pine
- 5424 White cloth on pine at H.W.L.
- 5425 White Sig. Cl. on lone pine
- 5427 Leaning tree, redcloth
- 5428 White Signal Cloth on Pine
- 5429 White Cloth on pine
- 5430 Red Sig. Cl. on small pine
- 5431 Red cloth on tree in rock
- 5432 Bushy pine at upper side of brush patch
- 5433 Orange Sig. Cloth on pine
- 5434 White Sig. Cl. on pine nearest water
- 5435 White cloth on pine in granite
- 5436 Top of large pine on east side of draw
- 5437 Outer tip of round rock, whitewashed
- 5438 White Sig. Cl. on large pine tree
- 5439 Small red banner D/S end isolated rock
- 5440 Orange cloth on bush
- 5441 Base of pine, trunk flagged white, Medium pine SE of 2 in draw
- 5442 U/S gable of house
- 5443 Base of lone pine, not flagged
- 5444 Red wrapped trunk of pine
- 5445 Red banner on greasewood bush
- 5446 White Sig. Cl. on pine
- 5447 White Sig. Cl. on greasewood
- 5448 Red Sig. Cl. on D/S pine of 2
- 5450 White Sig. Cl. on pine near float
- 5452 D/S gable of blue roof house

5501 White Sig. Cloth on pine  
 5502 White Sig. Cloth on tuft top pine  
 5503 Red Sig. on pine  
 5505 White Sig. Cl. on live pine  
 5507 Red Sig. Cloth on lone pine  
 5509 White Sig. Cloth on pine on fence  
 5510 Red Sig. Cl. on pine  
 5511 Red Sig. Cl. on live pine  
 5512 White Sig. Cl. on pine  
 5513 White Sig. Cl. on tallest pine  
 5514 Red cloth on pine  
 5515 Red signal Cl. on pine  
 5516 White Sig. Cl. on South of 2 pines  
 5517 White Signal cloth on pine  
 5518 White Sig. Cl. on pine  
 5519 White Sig. Cl. on lone bush  
 5520 Red Sig. Cl. on large pine  
 5522 White Sig. Cl. on small single pine  
 5524 Red wrapped double pine  
 5526 Small white wrapped pine on slide  
 5528 Base of leaning pine, red flag  
 5530 Red cloth on pine  
 5532 White flag on pine  
 5534 Base of inshore of 2 trees  
 5536 Small fruit tree on point  
 5538 White Sig. Cl. on pine  
 5540 Red Signal Cloth on lone pine

5521 = 560 / A  
 5523 = 570 / B

5542 Lone Pine on side hill  
5544 White Sig. Cl. on pine in basalt  
5546 White Sig. Cl. on pine  
5548 Sq. White banner on pine  
5550 Red wrapped pine  
5552 White wrapped pine  
5554 Red wrapped pine  
5556 White Sig. Cl. on pine  
5558 Red Sig. Cl. on pine  
5560 White Sig. Cl. on pine  
5562 Red Sig. Cl. on dead snag  
5564 Red and white strips on pine  
5566 White Sig. Cl. on bushy pine  
5568 White Sig. Cl. on pine  
5570 Base of leaning pine, redcloth  
5572 Forked pine, not flagged  
5574 White cloth on forked pine  
5601A Red Sig. Cloth on bushy tree = 5521  
5601B White flag on fence corner = 5522  
5601 Red Cloth on pine Sapline  
5602A Red signal on tree in draw  
5602 White Sig. Cl. on pine  
5603 White cloth on pine  
5604 Red signal cloth on pine on fence  
5606 White Signal Cloth on lone pine  
5607 North Easterly and tallest of 2 pines

5608 Red and white strips on stake in bush  
5609 Red Cloth on forked top pine  
5610 West gable of low building  
5611 White Cloth on double pine  
5612 Center of E. pier of bridge  
5613 Center of W. pier of bridge  
5614 West gable of unpainted barn  
5615 Red Cloth on pine in draw  
5616 White Sig. Cl. on pine  
5617 White Sig. Cl. on pine  
5619 Red Sig. Cl. on pine in granite  
5621A White strips around thorn bush  
5623 White Sig. cloth on center of round bush  
5625 Red Sig. Cl. on bush  
5626 Not used  
5631 White cloth on pine  
5633 Red Signal Cloth on Snag  
5634 White rag on greasewood  
5635 White cloth on snag  
5636 Red Sig. Cl. on greasewood bush  
5637 West gable of house  
5638 White Sig. Cl. on pine  
5639 Red Cloth on Snag  
5640 Red Sig. Cl. on live pine  
5641 White Sig. Cl. on bushy pine  
5643 Red and White Strips on stake on Wreckage



5644 Red Signal Cloth on large lone tree  
5645 White Sig. Cl. on tufted top pine  
5646 White Signal Cl. on pine tree  
5647 Red Sig. Cl. on Snag  
5648 Red Sig. Cl. on D/S pine  
5649 White Cloth on single pine  
5650 White Sig. Cl. on pine  
5651 Red Cloth on pine  
5652 White Signal Cloth on small pine  
5653 White Cloth on tall pine  
5655 Red Sig. Cl. on live pine  
5656 White Sig. Cl. on outer pine of clump  
5657 White Sig. Cl. on forked bushy pine  
5658 Red Sig. Cl. on large pine  
5659 Red Sig. Cl. on offshore of 4 trees  
5660 Red Sig. Cl. on offshore of 2 pines  
5661 White Sig. Cl. on spindly pine  
5662 White Sig. Cl. on small pine on point  
5663 Red Sig. Cl. on tree  
5664 Red Sig. Cl. on forked pine  
5665 White Sig. Cl. on D/S of twin pines  
5666 White Sig. Cl. on double pine  
5667 Red Sig. Cl. on Dead Snag  
5668 Red and white Sig. Cl. on pine  
5669 Red Sig. Cl. on dead tree  
5671 White Cloth on pine at point of woods  
5672 White Sig. Cl. on U/S pine

5673 Red Sig. Cl. on single pine  
5675 White Cloth on Snag  
5677 Red Sig. Cl. on large pine  
5679 White Sig. Cl. on pine nr. H.W.L.  
5681 Red Sig. Cl. on pine tree  
5683 White Sig. Cl. on bushy pine

# GEOGRAPHIC NAMES

Survey No.

T-8853

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	
Washington								USGB	1
Franklin D. Roosevelt Lake								"	2
Lincoln County									3
Ferry County									4
Colville Indian Reservation									5
									6
Hellgate			(hamlet)						7
Hellgate Canyon									8
Hellgate Island									9
Hellgate Road									10
Williams Flats									11
Whitestone Creek									12
Jim Mountain									13
Whitestone Flats									14
Lundstrom Bay									15
Lundstrom Flat									16
Moonshine Bay									17
Jump Canyon									18
Whitestone Rock									19
Spiegel Canyon			(not Spiegle)						20
Penix Canyon									21
									22
Names underlined in red are approved. 12/30/31 L. Her									23
									24
									25
									26
									27

# GEOGRAPHIC NAMES

Survey No. T-8854

1	Name on Survey	A	B	C	D	E	F	G	H	K	
	Washington									USGB	1
	Lincoln County										2
	erry County										3
	Colville Indian Reservation										4
	Franklin D. Roosevelt Lake									USGB	5
											6
	Lincoln										7
	Lincoln Mill			(sawmill at Lincoln)							8
	Walsh Creek										9
	Redwine Creek										10
	Goat Pasture										11
	Rankin Flats										12
	Halverson Canyon										13
	Lundstrom Mountain										14
	Whitestone Ridge										15
	George Mountain										16
	George Mountain Lookout										17
	George Creek										18
											19
											20
						Names underlined in red are approved. 1/5/49 L. Heck					21
											22
											23
											24
											25
											26
											27
											M 234

Names underlined in red are approved. 1/5/49 L. Heck

# GEOGRAPHIC NAMES

Survey No. T-8855

Name on Survey	A	B	C	D	E	F	G	H	K	
Washington									USGB	1
Franklin D. Roosevelt Lake									"	2
Lincoln County										3
Ferry County										4
Hawk Creek Harbor										5
Hawk Creek										6
Indian Creek										7
Swede Canyon										8
Swede Flats										9
George Creek										10
Rothlisberg School										11
										12
										13
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										27

Names underlined in red are approved. 1/6/49 L. Heck.

# GEOGRAPHIC NAMES

Survey No.

T-8856

GEOGRAPHIC NAMES											
Survey No. T-8856											
Name on Survey											

Names underlined in red are approved. 1/12/49. L. Heck.

Division of Photogrammetry  
Review Report of  
Shoreline Map Manuscripts T-8853 to T-8856  
Area of the Second Radial Plot, Ph-2(45)

Subject headings not used in this report have been adequately covered in other parts of the Descriptive Report.

Map manuscripts T-8854, T-8855, and T-8856 show the Grand Coulee Independent Grid. A note on the lower margin of map manuscript T-8855 states that this grid is in error (eastward) about 3m. The grid was not removed during review, but a note was attached to each map manuscript to indicate that the grid is to be disregarded. This grid does not appear on previous or subsequent map manuscripts.

26. Control.—Unrecovered U. S. Bureau of Reclamation triangulation stations on this series of map manuscripts were plotted by their geographic positions or by state coordinates (Washington, North Zone) as an aid to the hydrographic party. They are shown by a dashed symbol.

The recovery date for recovered triangulation stations has been left on the map manuscripts to indicate that the coordinate positions have been converted from the Grand Coulee Dam Datum to geographic positions on the N. A. 1927 datum, or on Washington, North Zone, coordinates.

A list of recovered and unrecovered stations (form M-2388-12) is attached to the descriptive report.

Coast and Geodetic Survey triangulation stations (adjusted from U. S. Bureau of Reclamation positions) were plotted on the map manuscripts during review, as follows:

T-8853

Pine Flat, 1937  
Hope, I. S. 1934  
Flanagan, I. S. 1934  
Roth, I. S. 1934  
Jump, I. S. 1934

T-8855

Swede, I. S., 1935

T-8856

Fort, 1935  
Mesa, 1935

T-8854

Deer, 1934  
Coyote, 1934  
Halverson, I. S. 1934  
Pine Top, I. S. 1934

28. Detailing.—Several portions of the shoreline were altered on T-8853 to conform to photographic and field data. The map manuscripts for the second radial plot meet the required accuracy with respect to shoreline, and near-shore highway delineation. Interior detail is true in general, but less accurate in minor details.

T-8856

The shoreline on T-8856 is subject to corrections as shown in red on H-7700 (1948-49). These corrections were transferred to H-7700 from graphic control survey LR-T-48 (field number) which was subsequently destroyed. M.Z. 6-1-50



37. Geographic Names.-A separate list for each map manuscript (compiled by the Geographic Names Section) is attached to this compound descriptive report.

43. Comparison with Previous Topographic and Contemporary Hydrographic Surveys.-

There are no previous surveys of the area of Ph-2(45), and the hydrographic survey is in process.

44. Comparison with Existing Quadrangles.-

U.S.E. Davenport, 1:125,000 rep. 1939 (Tactical).

This is a planimetric map which shows the land net, roads, railroads, drainage, county lines, and settlement names.

Except for the land net and boundary lines, the present survey supersedes the quadrangle for their common areas.

Reviewed by:

Under the direction of

Lena T. Stevens  
Lena T. Stevens

T-8853 30 Dec. 1948  
T-8854 4 Jan. 1949  
T-8855 6 Jan. 1949  
T-8856 13 Jan. 1949

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

APPROVED BY:

Tech. Assist. to the Chief,  
Division of Photogrammetry

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

O. S. Reading  
Chief, Div. of Photogrammetry

W. M. Seale  
Chief, Div. of Coastal Surveys, *W.M.*