8860 8861

8862

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

8860 8861 8862

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-8860, T-8861 & T-8862

LOCALITY

State Washington

General locality F.D.Roosevelt Lake

Locality From Sixmile Creek to 2 miles upstream from Bissell, Wash.

194 6-'47

CHIEF OF PARTY

J.T.Jarman

LIBRARY & ARCHIVES

DATE November 10, 1949

B-1870-1 (1)

Form T-1

DATA RECORD

T-8860 N/2 and 8860 S/2

DAVENPORT, WASHINGTON
Quadrangle (II): BISSEL, WASHINGTON 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 - 5/15/47 Copy filed in ~~Descriptive Report No. T- (VI)~~ Division of Photogrammetry Office Files

Completed survey received in office: 30 Mar. 1948

Reported to Nautical Chart Section: 2 Apr. 1948

Reviewed: 18 Feb. 1949 Applied to chart No. Date:

Redrafting Completed: —

Registered: 19 Oct. 1949 Published:

Compilation Scale: 1:10,000 Published Scale:

Scale Factor (III): None

Normal Pool Elevation 1290' above (USBM, 1937) 1288.5 ± USCGS, 1929

Geographic Datum (III): N.A. 1927 Datum Plane (III): Mean Sea Level

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

Lat.: 48° 01' 08.674" (267.9m) Long.: 118° 21' 48.246" (1000.1m) Adjusted X
Unadjusted

State Plane Coordinates (VI): Washington, North Zone

X = Note 2,604,379.88 Y = 381,426.55

Due to error in the original layout the map manuscript T8860 is too large for plotting and reproduction and will be divided into two sections T8860 N/2 and T8860 S/2

Military Grid Zone (VI)

BG Jones 4/1/48

M-2467-12 (3)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	~~Stage of Tide~~ Water level of lake
9 lens				
17505 to 17511 Inc.	8/22/46	13:05 P.S.T.	1:10000	1289.65 above M.S.L.
17614 to 17617 Inc.	8/27/46	9:10 P.S.T.	1:10000	1289.61 above M.S.L.
U.S.Army				
Single lens				
12-1 to 15-1 Inc.	Unknown	Unknown	1:20000	Unknown
23-5 to 29-5 Inc.	Unknown	Unknown	1:20000	Unknown
43-5 to 45-5 Inc.	Unknown	Unknown	1:20000	Unknown
83-7 & 84-7	Unknown	Unknown	1:20000	Unknown

Tide from (III): None

Mean Range: None Spring Range: None

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

Field Inspection by: See remarks Page 3 date: Summer 1947

Field Edit by: date:

Date of Mean High-Water Line Location (III): 8-27-46

Projection and Grids ruled by (III) Washington Office date: Sept. 1947

" " " checked by: Washington Office date: Sept. 1947

Control plotted by: James L.Harris date: Oct. 31, 1947

Control checked by: Frank Elrod date: Nov. 3, 1947

Radial Plot by: James L. Harris & J. E. Deal date: Nov. 20, 1947

Detailed by: M. Elrod date: Dec. 12, 1947

Reviewed in compilation office by: Ree H. Barron date: Dec. 31, 1947

Elevations on Field Edit Sheet
checked by: None date:

STATISTICS (III)

Land Area (Sq. Statute Miles): 30.4 (Complete detail along shoreline) (Skeleton detail interior)

Shoreline (More than 200 meters to opposite shore): 26.2 statute miles

Shoreline (Less than 200 meters to opposite shore): 1.0 statute mile

Number of Recoverable Topographic Stations established: 3

Number of Temporary Hydrographic Stations located by radial plot: 52

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:

	Date
Recovery of Horizontal Control C. Hanavich, J.C.Lajoye, J. H. Winniford	8/4/47 to 8/14/47
Shoreline Inspection J.C.Lajoye	8/19/47 to 8/26/47
Interior Field Inspection & Geographic Names J. H. Winniford	7/23/47 to 8/14/47

Form T-1

DATA RECORD

T-8861 N/2 and T8861 S/2

Quadrangle (II): Bissell, 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 - 5/15/47 Copy filed in ~~Descriptive Report No. T-~~ ~~(VI)~~ Division of Photogrammetry Office Files

Completed survey received in office: 30 Mar. 1948

Reported to Nautical Chart Section: 2 Apr. 1948

Reviewed: 26 Feb. 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, 1937) 1288.5± USCE&S, 1929

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

Lat.: 48° 04' 01.509" (46.6m) Long.: 118° 13' 27.862" (576.8m) Adjusted x Unadjusted

State Plane Coordinates (VI): Washington, North Zone

X = 2,637,785.15 Y = 400,051.70 Note: Due to an error in the original layouts map manuscript T8861 is too large for filing and reproduction and will be divided into two sections T 8861 N/2 and T 8861 S/2

Military Grid Zone (VI)

M-2467-12(3)

Biggers 4/48

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Water level of lake ~~Stage of Tide~~
Nine lens				
17512 to 17516 Inc.	8/22/46	13:15 P.S.T.	1:10000	1289.65 above M.S.L.
17620 to 17625 Inc.	8-27/46	9:36 P.S.T.	1:10000	1289.61 above M.S.L.
U.S.Army				
Single lens				
40-5 & 41-5	1944	Unknown	1:20,000	Unknown
48-7 & 49-7	1944	Unknown	1:20,000	Unknown
77-7 to 82-7 Inc.	1944	Unknown	1:20,000	Unknown
60-9 to 64-9 Inc.	1944	Unknown	1:20,000	Unknown

Tide from (III): None

Mean Range: None Spring Range: None

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

Field Inspection by: See remarks Page 3 date: Summer 1947

Field Edit by: None date:

Date of Mean High-Water Line Location (III): 8-27-46

Projection and Grids ruled by (III) Washington Office date: Sept.,1947

" " " checked by: " " date: Sept.,1947

Control plotted by: James L. Harris date: Nov. 3, 1947

Control checked by: Frank Elrod date: Nov. 4, 1947

Radial Plot by: J. L. Harris & J. E. Deal date: Nov. 20, 1947

Detailed by: H. Letson and M. Elrod date: Feb. 13, 1948

Reviewed in compilation office by: R. H. Barron date: Feb. 26, 1948

Elevations on Field Edit Sheet
checked by: None date:

STATISTICS (III)

Land Area (Sq. Statute Miles): 37.7 sq. mi. (Complete detail along shoreline) (Skeleton detail interior)

Shoreline (More than 200 meters to opposite shore): 26.2 Statute miles

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

Number of Recoverable Topographic Stations established: 4

Number of Temporary Hydrographic Stations located by radial plot: 78

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:

Recovery of Horizontal Control — 8/21/47 to 8/26/47
C. Hanavich, J. C. Lajoye, J. Winniford

Shoreline Inspection — 8/27/47 to 9/8/47
J. C. Lajoye

Interior field inspection & geographic names — 8/21/47 to 8/26/47
J. Winniford

Form T-1

DATA RECORD

T-8862 N/2 and T8862 S/2

Quadrangle (II): Bissell, 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 - 5/15/47 Copy filed in ~~Descriptive Report No. T- (VI)~~ Division of Photogrammetry Office Files.

Completed survey received in office: 30 Mar. 1948

Reported to Nautical Chart Section: 2 Apr. 1948

Reviewed: 3 Mar. 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) = 1288.5± USCGS 1929 Normal Pool Elevation, 1290' above

Reference Station (III): JENNINGS, (USBR) 1936 r 1947

Lat.: 48° 12' 43.706" (1349.9m) Long.: 118° 09' 19.592" (404.5m) Adjusted x Unadjusted

State Plane Coordinates (VI): Washington, North Zone

X = 2,652,796.65 Y = 453,512.44

Military Grid Zone (VI)

Note: Due to an error in the original layout the map manuscript is too large for convenient handling and will be divided into two sections T8862 N/2 and T8862 S/2 Boy Jones 4/48 JWD

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Water Level of Lake Stage of Tide
Nine lens				
17517 to 17521 Inc.	8/22/46	13:18 PST	1:10000	1289.65' above M.S.L.
17626 to 17630 Inc.	8/27/46	9:41 PST	1:10000	1289.61' above M.S.L.
U. S. Army				
Single lens				
11-6 to 14-6 Inc.	1944	Unknown	1:20000	Unknown
44-7	1944	Unknown	1:20000	Unknown
46-7 and 47-7 Inc.	1944	Unknown	1:20000	Unknown

Tide from (III): None

Mean Range: None Spring Range: None

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

Field Inspection by: See remarks Page 3 date: Summer 1947

Field Edit by: None date:

Date of Mean High-Water Line Location (III): 8/27/46

Projection and Grids ruled by (III) Washington Office date: Sept. 1947

" " " checked by: Washington Office date: Sept. 1947

Control plotted by: Frank Elrod date: Nov. 4, 1947

Control checked by: James L. Harris date: Nov. 5, 1947

Radial Plot by: J. L. Harris & J. E. Deal date: Nov. 20, 1947

Detailed by: Roy A. Davidson date: March 10, 1948

Reviewed in compilation office by: Ree H. Barron date: March 16, 1948

Elevations on Field Edit Sheet
checked by: None date:

STATISTICS (III)

Land Area (Sq. Statute Miles): 40.2 (Complete detail along shoreline) (Skeleton detail interior)

Shoreline (More than 200 meters to opposite shore): 24.5 statute miles

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

Number of Recoverable Topographic Stations established: 5

Number of Temporary Hydrographic Stations located by radial plot: 55

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:

Recovery of Horizontal Control C. Hanavich, J. C. Lajoye, J. H. Winniford	8/11/47 to 9/10/47
Shoreline Inspection J. C. Lajoye	9/9/47 to 9/22/47
Interior field inspection and Geographic Names J. H. Winniford	8/26/47 to 8/29/47

MAP T-8860 PROJECT NO. Ph-2 SCALE OF MAP 1:10000 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)
BUCK	G-6760 USBR	N.A.	47° 59' 22.875"	706.5	(1146.7)				Used in radial	
r 1947 1935	1042	1927	118° 21' 27.319"	566.4	(677.7)				plot	
SIX MILE	G-6760 USBR	"	47° 59' 27.785"	858.2	(995.0)				"	
r 1947 1935	1042		118° 23' 15.087"	312.8	(931.2)					
C.P. 113 (UR 4211+11.01)	Field Comp.	"	377,250.69	686.0	(838.0)				"	
r 1947 1935	13		2,601,472.48	448.8	(1075.2)					
MILLER	G-6760 USBR	"	48° 00' 22.979"	709.7	(1143.4)				"	
1934 r 1947	1033		118° 19' 15.793"	327.3	(916.3)					
MILLER LO TOWER	G-6761 1093	"	48° 00' 22.783"	703.7	(1149.5)				"	
1935 r 1947			118° 19' 16.027"	332.2	(911.4)					
WOODS	G-6760 USBR	"	48° 01' 46.752"	1444.0	(409.2)				"	
1935 r 1947	1042		118° 20' 07.622"	157.9	(1085.2)					
ORCHARD	G-6760 USBR	"	48° 01' 08.674"	267.9	(1585.3)				"	
1935 r 1947	1042		118° 21' 48.246"	1000.1	(243.6)					
JENSEN	G-6760 USBR	"	48° 02' 13.201"	407.7	(1445.5)				"	
1935 r 1947	1042		118° 24' 03.530"	73.1	(1160.8)					
MITCHELL	G-6760 USBR	"	48° 02' 56.084"	1732.3	(120.9)				"	
1935 r 1947	1042		118° 22' 56.909"	1178.6	(64.0)					
WILLMONT	G-6760 USBR	"	48° 02' 09.868"	304.8	(1548.4)				"	
1935 r 1947	1043		118° 18' 13.572	281.1	(961.5)					
NINE MILE	G-6760 USBR	"	48° 00' 32.366"	999.7	(853.5)				Recovered but not used in radial	
1935 r 1947	1042		118° 23' 40.697"	843.5	(400.1)				plot	
C.P. 92 (UL 3054r47.39)	Field Comp.	"	393,685.73	1123.4	(400.6)				Used in radial	
1935 r 1947	13		2,607,482.48	756.7	(767.3)				Plot	

1 FT. = .3048006 METER

COMPUTED BY: F.H. Elrod DATE 10/26/47 CHECKED BY: J.L. Harris DATE 10/27/47

M-2388-12

MAP T-8860 PROJECT NO. Ph-2 SCALE OF MAP 1:10000 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)
C.P. 82 (UL 2719+41.33) 1935 r 1947	Field Comp.	N. A. 1927	371,239.19	377.7	(1146.3)				Recovered but not	
			2,600,249.14	75.9	(1448.1)				used in radial plot	
C.P. 109 (UR 4064+76.27) 1935 r 1947	"	"	368,850.68	1173.7	(350.3)				"	
			2,606,042.25	317.7	(1206.3)					
C.P. 84 (UL 2791+0665) 1935 r 1947	"	"	377,497.92	761.4	(762.6)				"	
			2,596,830.23	557.9	(966.1)					
~~C.P. 113 (UR 4211+11.01) 1935 r 1947~~	"	"	~~377,250.69~~	~~686.0~~	~~(838.0)~~				-"-	
			~~2,601,472.48~~	~~448.8~~	~~(1075.2)~~					
C.P. 86 (UL 2848+73.93) 1935 r 1947	"	"	382,268.94	691.6	(832.4)				"	
			2,594,319.95	1316.7	(207.3)					
C.P. 115 (UR 4301+79.12) 1935 r 1947	"	"	384,871.49	1484.8	(39.2)				"	
			2,602,211.51	674.1	(849.9)					
C.P. 90 (UL 2958+23.90) 1935 r 1947	"	"	389,766.28	1452.8	(71.2)				"	
			2,599,372.32	1332.7	(191.3)					
C.P. 117 (UR 4368+43.63 1935 r 1947	"	"	388,304.09	1007.1	(516.9)				"	
			2,604,967.30	1514.0	(10.0)					
C.P. 119 (UR 4410+13.98) 1935 r 1947	"	"	389,539.55	1383.7	(140.3)				"	
			2,608,007.19	916.6	(607.4)					
C.P. 121 UR 4464+48.01) 1935 r 1947	"	"	389,636.80	1413.3	(110.7)				"	
			2,612,138.79	651.9	(872.1)					
C.P. 94 (UL 3125+47.18) 1935 r 1947	"	"	393,853.89	1174.7	(349.3)				"	
			2,614,352.31	1326.6	(197.4)					
C.P. 111 (UR 4131-31.65) 1935	"	"	372,537.59	773.5	(750.5)				Not searched for	
			2,603,658.93	1115.2	(408.8)				Plotted at request of Hydro Party	

Meters to grid

G-7380, Library & Archives

1 FT. = .3048006 METER

COMPUTED BY: J.L.Harris DATE 10-27-42 CHECKED BY: J.E.Deal DATE 12-12-47

M-2388-12

MAP T-8860 PROJECT NO. Ph-2 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)
C.P. 123 (UR 4526+21.65 1935	Field Comp.	N.A. 1927	388,814.73	1162.7	(361.3)				Not searched for Plotted at request of Hydro Party	
C.P. 125 (UR 4589+96.27 1935	"	"	388, 959.16	1206.8	(317.2)				"	
			2,621,505.41	458.8	(1065.2)					
C.P. 127 (UR 4639+04.15) 1935 East of map limit	"	"	388,341.97	1018.6	(505.4)				"	
			2,626,054.64	321.5	(1202.5)					
C.P. 88 (UL 2919+55.21) 1935	"	"	387,504.83	763.5	(760.5)				"	
			2,596,518.51	462.8	(1061.2)					
FOX IS.(SS) 1935	G-6760 1068 Library & Archives	"	48° 03' 15.195	469.3	(1383.8)				Used in theo-dolite fix	
			118° 20' 29.357	607.9	(634.6)					

1 FT. = .3048006 METER

COMPUTED BY: J.L.Harris DATE 10-27-42 CHECKED BY: J.E.Deal DATE 12-12-47

M-2388-12

MAP T-8861 PROJECT NO. Ph-2(45) SCALE OF MAP 1:10000 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)
RM #1 CP 102 (UL 3434-46.96) 1935	Field Comp 14	N. A. 1927	411,245.81	379.7	(1144.3)				recovered but not used in radial plot	
			2,630,024.07	7.3	(1516.7)					
GEROME 1935	G-6760 USBR 1043	"	48° 02' 25.059"	774.0	(1079.2)				Used in radial plot	
			118° 15' 25.838"	535.2	(707.6)					
Hunters School Flagpole 1936 r 1947	G-6760 USBR 1073	"	48° 07' 10.65"	328.9	(1524.3)				"	
			118° 12' 09.48"	196.1	(1044.9)					
FRUITLAND 1934 r 1947	G-6760 USBR 1033	"	48° 04' 01.509"	46.6	(1806.6)				"	
			118° 13' 27.862"	576.8	(665.4)					
HUNTERS 1935 r 1947	G-6760 USBR 1051	"	48° 07' 44.970"	1389.0	(464.2)				"	
			118° 12' 53.992"	1116.4	(124.2)					
SAVAGE 1935 r 1947	G-6760 USBR 1043	"	48° 04' 58.675"	1812.3	(40.9)				"	
			118° 15' 57.960"	1199.5	(42.2)					
TROGER 1935 r 1947	G-6760 USBR 1044	"	48° 06' 01.935"	59.8	(1793.5)				"	
			118° 13' 07.632"	157.9	(1083.5)					
HEATH 1935 r 1947	G-6760 USBR 1044	"	48° 06' 30.871"	953.5	(899.7)				"	
			118° 16' 03.748"	77.5	(1163.6)					
MONAGHAN 1935 r 1947	G-6760 USBR 1051	"	48° 08' 00.143"	4.4	(1848.8)				"	
			118° 15' 29.129"	602.3	(683.3)					
STACK IS. 1935 r 1947	G-6760 USBR 1073	"	48° 07' 06.909"	213.4	(1639.8)				recovered but not used in radial plot	
			118° 13' 20.548"	425.0	(815.9)					
ME CHURCH SPIRE 1935 r 1947 Ldmk.	G-6760 USBR 1069	"	48° 04' 13.514"	417.4	(1435.8)				Used in radial plot	
			118° 16' 26.543"	549.5	(692.6)					
CP 96 (UL 3205-14.65) 1935 r 1947	Field Comp. G-7380	"	393,232.82	985.4	(538.6)				Recovered	
			2,622,046.91	623.9	(900.1)					

1 FT. = .3048006 METER

COMPUTED BY: F.H.Elrod DATE 10/21/47 CHECKED BY: J.L.Harris DATE 10/22/47

M-2388-12

MAP T-8861 PROJECT NO. Ph-2(45) SCALE OF MAP 1:10000 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)
CP 98 (UL 3305+02.93) 1935	Field Comp.	N. A. 1927	399,224.18	1287.5	(236.5)					
			2,629,234.88	1290.8	(233.2)				Not searched for Plotted at request of Hydro Party	
CP 100 (UL 3368+88.94) 1935 r 1947	"	"	405,179.08	54.6	(1469.4)				Recovered	
			2,631,006.93	306.9	(1217.1)					
CP 104 (UL 3501+76.35) 1935	"	"	416,262.76	384.9	(1139.1)				Not searched for Plotted at request of Hydro Party	
			2,628,470.86	1057.9	(466.1)					
CP 106 (UL 35.71+7682) 1935 r 1947	"	"	423,065.24	934.3	(589.7)				Recovered	
			2,629,268.48	1301.0	(223.0)					
CP 108 (UL 3636+8879) 1935	"	"	426,396.79	425.7	(1098.3)				Not searched for Plotted at request of Hydro Party	
			2,631,836.24	559.7	(964.3)					
CP 110 (UL 3694+02.49) 1935 r 1947	"	"	427,729.61	832.0	(692.0)				Recovered	
			2,637,132.34	649.9	(874.1)					
CP 129 (UR 4689+87.87) 1935 r 1947	"	"	389,438.85	1353.0	(171.0)				Recovered	
			2,628,649.47	1112.4	(411.6)					
CP 131 (UR 4750+86.63) 1935 r 1947	"	"	390,064.35	19.6	(1504.4)				Recovered	
			2,629,669.97	1423.4	(100.6)					
CP 133 (UR 4817+8615) 1935 r 1947	"	"	392,473.65	754.0	(770.0)				Recovered	
			2,631,719.15	524.0	(1000.0)					
CP 137 (UR 49.46+40.75) 1935 r 1947	"	"	402,603.74	793.6	(730.4)				Recovered	
			2,636,813.73	552.8	(971.2)					
CP 139 (UR 5046+9448) 1935 r 1947	"	"	406,129.64	344.3	(1179.7)				Used in radial plot	
			2,637,005.66	611.3	(912.7)					
CP 141 (UR 51.16+86.14) 1935 r 1947	"	"	410,981.71	299.2	(1224.8)				Recovered	
			2,636,471.74	448.6	(1075.4)					

Meters to grid

6-7380 Library & Archives

1 FT. = .3048006 METER

COMPUTED BY: J.L.H. DATE 10/27/47 CHECKED BY: R.H.B. DATE 10/28/47

M-2388-12

MAP T- 8861 PROJECT NO. Ph-2(45) SCALE OF MAP 1:10000 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)
CP 143			415,153.13	46.7	(1477.3)				Recovered	
(UR 51.61+46.41) 1935 r 1947	Field Comp.	N. A. 1927	2,635,302.37	92.2	(1431.8)					
CP 145	"	"	418,001.45	914.8	(609.2)				"	
(UR 52.31+08.15) 1935 r 1947			2,634,983.36	1518.9	(5.1)					
CP 147	"	"	423,076.83	937.8	(586.2)				Plotted at request of hydrographic party	
(UR 5300+1632) 1935 r 1947			2,637,766.20	843.1	(680.9)					
CP 149	"	"	427,042.85	622.7	(901.3)				"	
(UR 53.74+35.05) 1935 r 1947			2,643,892.74	1186.5	(337.5)					
CP 151	"	"	430,386.75	117.9	(1406.1)				Recovered	
(UR 5422+94.60) 1936 r 1947			2,645,748.94	228.3	(1295.7)					

1 FT. = .3048006 METER

COMPUTED BY: J.L.H DATE 10/27/47 CHECKED BY: R.H.B. DATE 10/28/48

M-2388-12

MAP T-8862 PROJECT NO. Ph-2(45) SCALE OF MAP 1:10000 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)
CP 116 (UL 3907+76.78) 1935 r 1947	Field Comp. 14	N. A. 1927	447,397.11	730.6	(793.4)				Used in radial	
			2,641,131.74	345.0	(1179.0)				plot	
CP 165 (UR 5981+70.16) 1936 r 1947	"	"	467,752.32	838.9	(685.1)				"	
			2,657,205.01	672.1	(851.9)					
CP 163 (UR 5886+38.70) 1936 r 1947	"	"	460,115.78	35.3	(1488.7)				"	
			2,652,511.91	765.6	(758.4)					
CP 155 (UR 5583+47.84) 1936 r 1947	"	"	441,854.21	565.2	(958.8)				"	
			2,644,778.11	1456.4	(67.6)					
JENNINGS 1936 r 1947	G-6760 USBR 1051	"	48° 12' 43.706"	1349.9	(503.3)				"	
			118° 09' 19.592"	404.5	(834.2)					
HARVEY 1936 r 1947	G-6761 USC&GS 1086	"	48° 11' 16.895"	521.8	(1331.4)				"	
			118° 07' 58.712"	1212.6	(26.6)					
CEDONIA CHURCH SPIRE 1936r1947	G-6760 USBR 1073	"	48° 09' 15.890"	490.8	(1362.4)				"	
			118° 10' 07.980"	164.9	(1075.1)					
TURTLE 1936 r 1947	G-6760 USBR 1051	"	48° 13' 26.687"	824.3	(1028.9)				"	
			118° 11' 16.696"	344.6	(893.8)					
KEWA 1935 r 1947	G-6760 USBR 1051	"	48° 10' 42.427"	1310.4	(542.8)				"	
			118° 13' 12.740"	263.2	(976.3)					
CP 112 (SS) 1936	Field Comp.	"	434,292.47	1308.3	(215.7)				No Report	
			2,641,502.26	457.9	(1066.1)				Plotted at request of Hydro Party	
CP 114 (UL 38.42+48.38) 1936	Field Comp.	"	441,067.05	325.2	(1198.8)				No Report	
			2,642,325.41	708.8	(815.2)				Plotted at request of Hydro Party	
CP 118 (UL 39.63+22.81) 1936	"	"	452,572.23	784.0	(740.0)				Lost	
			2,642,572.64	784.1	(739.9)				Plotted at request of Hydro Party	

G-7380

Tracing to grid →

1 FT. = .3048006 METER

COMPUTED BY: F. Elrod DATE 10/22/47 CHECKED BY: J.L.Harris DATE 10/22/47

M-2388-12

MAP T-8862 PROJECT NO. Ph-2(45) 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)
CP 120 (UL 4067+09.5) 1936 r 1947	Field Comp.	N.A. 1927	459,980.98 2,648,834.33	1518.2(5.8) 1168.7(355.3)			Recovered
CP 122 (UL 4163+98.44) 1936	"	"	467,854.13 2,653,598.52	870.0(654.0) 1096.8(427.2)			Lost, Plotted for hydro. party ~~signal~~
CP 153 (UR 5504+8754) 1936	"	"	436,440.47 2,645,844.11	439.1(1084.9) 257.3(1266.7)			Lost, Plotted for hydro party ~~signal~~
CP 157 (UR 56.49+8301) 1936	" G-7380	"	445,877.06 2,645,533.40	267.3(1256.7) 162.6(1361.4)			Lost, Plotted for hydro party ~~signal~~
~~CP 159~~ ~~(UR 57.15+34.71)~~ ~~1936~~	"	"	~~449,851.34~~ ~~2,646,485.48~~	~~1478.7(45.3)~~ ~~452.61(1071.2)~~			~~Destroyed~~
CP 161 (UR 57.69+92.62) 1936 r 1947	"	"	454,649.73 2,647,024.59	1417.2(106.8) 617.1(906.9)			Recovered
BLUFF IS. 1936 r 1947	G-6760 1074	"	48° 15' 52.868 118° 07' 11.932	1633.0 (220.3) 246.1 (991.4)			Used in radial plot

1 FT. = .3048006 METER

COMPUTED BY: J.L.Harris DATE 10/28/47 CHECKED BY: F.H.Elrod DATE 10/28/47

M-2388-12

FIELD INSPECTION REPORT
AREA OF THE FOURTH RADIAL PLOT
Project PH-2(45)

1. Description of the Area:

The area of the fourth radial plot is comprised of 3 shoreline surveys numbered 8860 to 8862 inclusive, and it includes that portion of the Franklin D. Roosevelt Lake meandering north and south between the mouth of the Spokane River to the south and the small settlements of Gifford and Inchelium to the north.

The topography of the terrain varies - rolling to mountainous. Sedimentary benches and pockets sustain a limited agricultural and pastoral economy.

On the west side of the Lake, the sedimentary benches or pockets that adjoin the lake front alternate with rugged mountain slopes which rise directly from the shore. A sedimentary bench extends from the mouth of Fall Creek northward beyond the limits of sheet 8862 and is composed mainly of sand or clay. It has been deeply incised by drainage action of former years. Shoreward erosion is proceeding rapidly along the entire face of this bench.

Between Fall Creek and Monaghan Creek, a slate ridge rises from the lakeshore. South of the latter Creek it strikes inland and terminates north of the mouth of Wilmont Creek. Fronting the Lake between these two latter Creeks is another sedimentary bench; it extends southward to Ninemile Creek with one interrupting slate ridge located about midway.

From Ninemile Creek to the south limits of sheet 8860, steep mountain slopes rise from 1000 to 1500 feet above the Lake.

Westward and inland of these areas, one finds rough and rugged mountain ridges that extend in a general north-south direction. They are covered with conifers and brush and the underlying structure is slate or other metamorphic rock.

South of Hunters (east side of the Lake) sedimentary benches front the major portion of the water area. The land is flat or rolling and occasionally, sharp peaks, for instance Miller Mountain or the butte SW of Fruitland, break up this pattern.

North of the town of Hunters, the benches give way to high ridges with a growth of pines and brush. Inland the topography is similar to that found across the Lake although less rugged.

In general, the drainage pattern for the whole area is well defined. A noticeable feature, by comparison with the areas in the first and second radial plots, is the marked increase in the perennial drainage. Intermittent streams frequently disappear into the ground on encountering the sandy benches that adjoin the Lake.

One major state highway (Washington #22) traverses the area north and south of the east side of the Lake. From Ninemile Creek northward, a gravel road parallels the west side of the Lake; a graded and drained road leads south from this Creek. Connecting gravel or dirt roads are found scattered through the area. A few minor access roads reach to the Lake North of Miller Mountain and west from Hunters. There are no railroads in the area.

The town of Hunters is a minor trading center; Fruitland and Cedonia are little more than crossroads. There are no towns in the area west of the Lake.

For additional information refer to the field inspection report for the area of the first radial plot under side heading 1, in the general description of the project area.

2. Completeness of Field Inspection:

The field inspection for the clarification of details on the photographs, and for the classification 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, Area of the First Radial Plot".

3. Interpretation of the Photographs:

Heavy brush and slate formations, not previously encountered can be distinguished as follows: Brush - mottled tint; slate - by the linear appearance of the rock outcrops.

For additional information refer to the special report mentioned above.

4. Horizontal Control:

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

5. Vertical Control:

Idem

6. Contours and Drainage:

Idem

7. Shoreline Plane of Reference:

Idem

8. Low-Water Line:

Idem

15. Bridges and Cable Crossings:

There were no bridges or submarine cable crossings (and overhead) across navigable waters found within the area.

16. Buildings and Structures:

A complete field investigation was made of any buildings or 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.

17. Boundary Monuments and Lines:

The original instructions relating to this phase of the work have been abrogated. Refer to the Acting Director's letter dated 7 November 1947, on the subject of the Lake Roosevelt reservation boundary.

18. Geographic Names: 814

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

21. Field Photographs:

Idem

22. Symbols and Color Schemes:

Idem

23. CP Stations along the Reservoir Boundary:

It is suggested for the remainder of the project area, i.e., in radial plots 3, 4, 5, 6 and 7, that all the CP control stations along the reservoir boundary be plotted on the survey sheets by the compilation office to facilitate the future work of the hydrographic party - except for those stations actually found destroyed.

see sub 26 Compilation Report

The reasons for this requested procedure are:

1. The original descriptions by the USBR for these CP stations, as a general rule, are inadequate because of recent changes in the topography, relocated roads, et cetera.

2. In most cases where a station was searched for but not found, it is believed that if they are plotted on our shoreline survey sheets it may be possible that the hydrographic party could recover some of them if needed.

3. Until recently the shoreline inspection unit has made a thorough search for most of these stations if of value to hydrography or if needed to control the radial plots.

This practice, however, was modified to insure the completion

of work in this project this year. The shoreline inspection unit is recovering only at the present time those CP stations needed to control the radial plots and the occasional recovery of additional ones. On completion of shoreline inspection, and weather conditions permitting, a search will be made for the remaining stations by truck subject to accessibility, and if possible, some by boat.

4. Recent instructions specify that all hydrographic sites identified on the photographs must be substantial and definite, and that no instrumental ground work will be employed in establishing them. In view of these instructions, additional points will have to be located by the hydrographic unit. And these CP stations will have to be resorted to for some of their basic control.

5. To facilitate the recovery of those stations not searched for or found lost (mainly due to the inadequacy of the original description) by the hydrographic party, it is recommended that these stations be shown on the shoreline survey sheets by an appropriate symbol such as a "broken"triangle.

6. The plane coordinates of all CP stations will be listed, hereafter, on Form 709 and each station will be noted thus:

r - recovered
nr - not recovered, i.e., not searched for
l - searched for but not found
d - found destroyed (not to be indicated on survey sheet)

Approved by:
J. T. Jarman,
Chief of Party

Respectfully submitted:
Charles Hanavich
Charles Hanavich,
Topographic Engineer

COMPILATION REPORT
Map Manuscripts T-8860 to T-8862 Inclusive
Area of the 4th Radial Plot
Project Ph-2(45)

26. Control:

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

T-8860 = 11
8861 = 10
8862 = 10
31

Because of insufficient end lap in line of flights, the use of the stereoscope was limited for transferring horizontal control stations and photo hydro signals from one photograph to another. This often made it impossible to obtain stereoscopic vision when viewing a stereoscopic pair. (See paragraph 2 of letter 711-rs, dated 23 September 1947, on the subject of photographs.)

All horizontal control stations, which were recovered by the field party, were plotted on the map manuscripts. In addition, at the request of the hydrographic party, all unrecovered USBR 3rd order stations lying along (CP series) the shore of the lake, which were not found to be destroyed, were plotted. This was done in order to facilitate their recovery by the hydrographic party if they were needed. The original descriptions for this 3rd order control were written prior to the time that the lake was impounded, and were therefore inadequate. These unrecovered stations were indicated by a dashed line triangulation station symbol, and a note pertaining to same was lettered in the margin of the manuscript.

A complete tabulation of the horizontal control stations shown on these three map manuscripts is contained on several sheets of Form M-2388-12, which are attached to this descriptive report.

27. Radial Plot:

These three map manuscripts, Nos. T-8860 to T-8862 Inclusive, were combined into one radial plot known as Radial Plot No. 4, Project Ph-2 (45). This radial plot was completed in the same manner as Radial Plot No. 1 which has been fully described under Item 27 of the "Descriptive Report, Map Manuscripts T-8849 to T-8852 Inc., Area of the 1st Radial Plot, Project Ph-2(45)".

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 hydrogaphic 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, small interior areas near the limits of the map manuscripts could not be detailed.

Whenever possible the stereoscope was used 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 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--6 each--Bureau of Reclamation Index Maps Nos. 10 to 15 Inc.

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.

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.

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

31. Low-Water and Shoal Lines:

The field inspection unit did not indicate any low-water lines within the limits of these 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:

A small rocky island is the only detail offshore from the Mean High-Water Line. (Refer to Paragraph 10 of the Field Inspection Report) T-8862

33. Wharves and Shoreline Structures:

Refer to Paragraph 9 of the Field Inspection Report.

34. Landmarks and Aids to Navigation:

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

HOUSE (Chimney)----------T-8860
BARN (Southwest Gable)----------T-8861
SPIRE (Church)----------T-8861
Triangulation Station M.E. CHURCH SPIRE (USBR)
BARN (West Gable)----------T-8862
HOUSE (West Peak)----------T-8862

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

Nine Mile 23 Light----------T-8860
Lower Wilmont Daybeacon 26----------T-8860
Wilmont 28 Light----------T-8861
*Gerome 30 Light----------T-8861
Falls Creek 31 Light----------T-8861
Harvey Creek 32 Light----------T-8862
Se vern Springs 33 Light----------T-8862
Bissell Flats 34 Light----------T-8862

35. Hydrographic Control:

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

Sheet No.	Signals Pricked by Field Parties	Signals Rejected	Photo Hydro Signals Established
8860	57	5	52
8861	86	7	79
8862	56	1	55

* Description in Pacific Coast Light List, 1947 states that this light is on the west side of the lake. It is, in fact, on the east side & is so described on fm 524. Nautical Charts was notified of this discrepancy.

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 three 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 three map manuscripts, is attached to this descriptive report.

36. Landing Fields and Aeronautical Aids:

Form 567 is attached recommending the charting of the triangulation station "MILLER LOOKOUT TOWER (USBR), 1936," as an aeronautical aid. There are no landing fields in the area.

37. Geographic Names: 804 ✓

Geographic Names are the subject of a special report, "Investigation of Geographic Names, Sheets 8860 to 8872 Inclusive, Project Ph-2(45)", which has been submitted to the Washington Office by the field party.

During the compilation of T-8860, it was found that a geographic name had been omitted from the above geographic name report. It is:

"Mitchell Point"---In undisputed local usage. A landmark promitory which lies on the north side of the Franklin D. Roosevelt Lake about two miles northeast of Nine Mile Creek.

one unofficial name list attached.

38. Recoverable Topographic Stations:

Copies of Form 524 are being submitted for all stations listed under Item 34, "Landmarks and Aids to Navigation" except SPIRE (Church) which is the triangulation station M.E CHURCH SPIRE (USBR). No other recoverable topographic stations were selected by the field party, or radially plotted at the compilation office.

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).

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 Earle

Robert A. Earle
Chief of Party

:jr

Form 567
Rev. March 1935

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

Area of 4th Radial Plot
T-8860 to T-8862 Inc.
Project Ph-2(45)

TO BE CHARTED } STRIKE OUT ONE
~~TO BE DELETED~~ }

LANDMARKS FOR CHARTS
(Aeronautical Aid)

Coulee Dam, Wn. Sept., 47, 193

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

The positions given have been checked after listing. J.C.Deal

J. T. Jarman & R. A. Earle
Chief of Party.

GENERAL LOCALITY: Franklin D. Roosevelt Lake

NAME AND DESCRIPTION	POSITION						METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
	LATITUDE			LONGITUDE		DATUM						
	° ′	D. M. METERS		° ′	D. P. METERS							
T-8860 MILLER LOOKOUT TOWER, 75 ft. high (△ Miller Lookout Tower,)(USER)	48 00	(1149.5) 703.7		118 19	(911.4) 332.2	N. A. 1927	Triangulation	1936				Spokane (K-2)
L. 157(48)												

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.

U. S. GOVERNMENT PRINTING OFFICE 69675

Form 567
Rev. March 1935

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

Area of the 4th Radial Plot
T-8860 to T-8862 Inc.
Project Ph-2(45)

LANDMARKS FOR CHARTS
(Fixed Aids to Navigation)

TO BE CHARTED / ~~TO BE DELETED~~ } STRIKE OUT ONE

Coulee Dam, Washington — Sept., Oct., 1947

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.T.Jar

J. T. Jarman & R. A. Earle
Chief of Party.

GENERAL LOCALITY: Franklin D. Roosevelt Lake	POSITION							HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
NAME AND DESCRIPTION	LATITUDE		LONGITUDE		DATUM	METHOD OF LOCATION	DATE OF LOCATION				
	° ′	D. M. METERS	° ′	D. P. METERS							
T-8860 Nine Mile 23 Lt.	48° 01′	(1759.8) 93.4	118° 24′	(1118.0) 125.4	N. A. 1927	Theodol. angles	8/25/47		x		area not charted
T-8860 Lower Wilmont Daybeacon 26	48° 02′	(735.0) 1118.2	118°20′	(454.9) 787.5	"	"	8/27/47		x		"
T-8861 Wilmont 28 Lt.	48° 02′	(1316.4) 536.8	118°17′	(748.3) 494.6	"	"	8/27/47		x		"
T-8861 Gerome 30 Lt.	48° 03′	(1111.5) 741.7	118°14′	(1193.1) 49.3	"	Radial Plot	8/28/47		x		"
T-8861 Falls Creek 31 Lt.	48° 07′	(1690.3) 163.0	118°15′	(721.2) 520.5	"	Field Comp.	9/8/47		x		"
T-8862 Harvey Creek 32 Lt.	48° 09′	(1769.4) 83.8	118° 11′	(1010.4) 230.2	"	Transit angles	9/10/47		x		"
T-8862 Severn Springs 33 Lt.	48° 12′	(1020.7) 832.5	118°11′	(118.6) 1120.2	"	Radial Plot	"		x		"
T-8862 Bissell Flats 34 Lt.	48 14	(895.5) 957.7	118 08	(402.4) 835.6	"	"	"		x		"
	L.157 (48)										

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.

U. S. GOVERNMENT PRINTING OFFICE 69675

Form 567
Rev. March 1935

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

Area of 4th Radial Plot
T-8860 to T-8862 Inc.
Project Ph-2(45)

LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE DELETED~~ } STRIKE OUT ONE

Coulee Dam, Wn. Sept., Oct., 1947

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. T. Jarman

J. T. Jarman & R. A. Earle
Chief of Party.

GENERAL LOCALITY Franklin D. Roosevelt Lake

NAME AND DESCRIPTION	POSITION					METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
	LATITUDE		LONGITUDE		DATUM						
	° ′	D. M. METERS	° ′	D. P. METERS							
T-8860 HOUSE	48° 01′	(1117.5) 735.7	118° 22′	(1091.0) 152.2	N. A. 1927	Radial Plot	1947		x		Area not charted
T-8861 BARN (Southwest Gable)	48° 05′	(519.7) 1333.5	118° 13′	(1092.8) 148.8	"	"	"		x		"
SPIRE, Church (M.E. Church T-8861 Spire, USBR)	48° 04′	(1435.8) 417.4	118° 16′	(692.6) 549.5	"	Triang-ulation	1935		x		"
T-8862 Barn (West Gable)	48° 11′	(126.2) 1727.0	118° 10′	(222.1) 1016.9	"	Radial Plot	1947		x		"
T-8862 HOUSE (West Peak)	48° 15′	(1264.5) 588.8	118° 07′	(179.7) 1057.9	"	"	"		x		"
	L.157 (48)										

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.

U. S. GOVERNMENT PRINTING OFFICE 69675

Hydrographic Signal Sites
Project Ph-2(45)
Sheets 8860, 8861, 8862

6001A	Red signal cloth on pine
6001	White cloth on double pine
6002A	Red signal cloth on pine on slide
6002	White signal cloth on pine
6005	White signal cloth on bushy pine
6006	White signal cloth on lone pine
6007	Red and white flag on point of rock
6008	Red cloth on pine at top of slide
6009	Red cloth on pine
6010	White signal cloth on pine
6011	White cloth on tall pine
6012	Red cloth on pine at H. W. L..
6013	Red cloth on tall pine
6014	White cloth on pine
6015	White cloth on leaning pine
6016	Dormer Window
6017	Red signal cloth on pine
6018	White signal cloth on pine in deciduous clump
6019	White signal cloth on pine at end of boom
6020	Red flag on fence post at H. W. L.
6021	White signal cloth on large pine
6022	White signal cloth on large tree on fence
6023	Red signal cloth on upstream of 5 small pines
6024	White signal cloth on double pine
6026	Red signal cloth on large pine

6027 White wrapped pine

6028 White signal cloth on pine

6029 Red signal cloth on pine

6030 White signal cloth on trimmed pine

6031 White signal cloth on pine

6032 Red signal cloth on large pine

6033 Red signal cloth on pine on point

6034 White signal cloth on dead tree

6035 White signal cloth on largest pine

6036 Red signal cloth on pine

6037 Red signal cloth on pine on side hill

6039 White signal cloth on pine

6040 Red and white strips on stake in stump of fallen tree

6041 Red signal cloth on pine

6042 White signal cloth on pine near log dump

6043 White signal cloth on snag

6044 Red signal cloth on pine

6045 Red signal cloth on large bushy pine

6047 White signal cloth on pine tree

6049 Red signal cloth on small pine

6051 White signal cloth on pine

6055 Red signal cloth on leaning tree

6057 White signal cloth on small pine

6059 Red signal cloth on pine

6061 White signal cloth on lone pine

6063 Red signal cloth on small pine

6065 White signal cloth on bushy pine

6101A White signal cloth on snag

6101 White cloth on pine

6102 White signal cloth on tamerack

6103A Red signal cloth on single pine

6103 Red cloth on pine

6104 Red signal cloth on pine

6105 White cloth on small pine

6106 White signal cloth on single pine

6107 Red signal cloth on tall pine

6108 White signal cloth on lone pine

6110 Red signal cloth on pine

6111 Red signal cloth on tall pine

6112 Red signal cloth on small pine

6113 White signal cloth on pine

6115 Red cloth on leaning pine

6116 White signal cloth on pine tree

6117 White cloth on U/S small pine

6118 Red cloth on lone pine

6121 Red signal cloth on pine on point

6122 Red cloth on tall pine

6123 Red signal cloth on skraggly pine

6124 White cloth on pine snag

6125 White strip on pine

6126 Red cloth on small pine

6127 Red signal cloth on lone pine

6128 White cloth on tall pine

6129 White signal cloth on pine

6130 Red cloth on small snag

6131 Red signal cloth on large pine

6132 Red cloth on lone pine

6133 White signal cloth on dead pine

6134 White cloth on bushy pine

6135 Red signal cloth on pine

6136 Red signal cloth on tree

6137 Red and white strips on stake at edge of road at H. W. L.

6138 White signal cloth on tree

6139 White signal cloth on tree on point

6140 U/S and tallest of 2 pines

6141 Red signal cloth on pine tree

6142 S gable of barn

6143 White signal cloth on dead pine

6144 S gable of shed at H. W. L.

6145 Red signal cloth on pine bush

6146 White signal cloth on pine

6147 White signal cloth on pine

6148 Red signal cloth on pine

6149 Red signal cloth on bushy pine

6150 White rag on bush

6151 White signal cloth on pine

6152 Red signal cloth on pine tree

6153 Red signal cloth on dead fir

6154 White signal cloth on small pine

6155 White signal cloth on pine

6156 Red signal cloth on pine

6157 Red signal cloth on small trimmed fir

6158 White signal cloth on small pine

6159 Red signal cloth on pine near road

6160 Red cloth on pine on point

6161 White signal cloth on pine tree

6162 Red and white signal cloth on snag

6163 White signal cloth on snag

6164 White signal cloth on dead top pine

6166 Red signal cloth on pine near log dump

6167 Lone snag at top of slide

6169 Red signal cloth on lone pine

6171 White signal cloth on tallest of 3 pines

6173 Red signal cloth on lone pine

6175 White cloth on tree

6177 Red signal cloth on small pine

~~6179 Red signal cloth on pine on point~~
6179 Red signal cloth on pine on point
6183 Red signal cloth on point of pine thicket

6185 White signal cloth on small pine

6187 Red signal cloth on pine

6189 White signal cloth on pine

6191 Red signal cloth on pine

6193 White signal cloth on lone pine

6195 Red signal cloth on pine sapling

6197 White signal cloth on pine

6199 Red signal cloth on pine

6201 Red signal cloth on pine

6201A White signal cloth on pine

6202 White signal cloth on pine

~~6203 White signal cloth on outer pine of 6~~

6204 White signal cloth on pine

6205 Dead pine tree with 4 blaze

6206 Red signal cloth on pine

6207 Red signal cloth on bushy pine

6208 Forked pine top of slide

6209 White signal cloth on pine

6210 White cloth on stump at base of pine

6211 Red signal cloth on pine

6212 Red signal cloth on pine

6213 White signal cloth on lone pine

6214 White cloth on pine

6215 Red signal cloth on pine

6216 Lone pine at point on slide

6217 White signal cloth on pine

6218 White signal cloth on pine in slide area

6219 Red signal cloth on dead pine

6220 Single bushy pine 1st N of end of fence on slide

6221 White signal cloth on pine at H. W. L.

6222 Red cloth on lone pine

6223 Red signal cloth on pine on point

6224 U/S of 2 pines in grass area in slide

6225 Forked tree on fence

6226 White signal cloth on U/S pine

6227 White cloth on pine, twin trunk

6228 Red cloth on small pine

6229 Red cloth on pine

6230 White signal cloth on dead tree

6231 White cloth on pine at bank

6232 Red signal cloth on live pine

6233 Red signal cloth on lone pine

6234 White cloth on pine. D/S end of brush

6235 White cloth on pine

6236 Red cloth on trimmed pine

6237 Red signal cloth on tall pine

6238 White signal cloth on pine

6239 White signal cloth on outer upstream tree

6240 Red cloth on trimmed pine in clearing

6241 Red signal cloth on lone pine

6242 White signal cloth on pine

6243 White signal cloth on pine

6244 Red cloth on pine

6245 Red signal cloth on pine tree

6246 White cloth on pine

6247 White signal cloth on small trimmed pine

6248 Red signal cloth on pine

6249 Red signal cloth on pine near slide

6251 White signal cloth on forked pine

6253 Red signal cloth on pine tree

6255 White signal cloth on pine

6257 Red cloth on pine

6259 White signal cloth on spindly pine

6261 Red signal cloth on bushy pine

GEOGRAPHIC NAMES

Survey No. T-8860

Name on Survey	On Chart No. A	On previous survey No. B	On U. S. quadrangle Maps C	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
Washington									USGB	1
Ferry County										2
Colville Indian Reservation			(this should be added, if the other one is to be named)							3
Stevens County										4
Spokane Indian Reservation										5
Franklin D. Roosevelt Lake									USGB	6
										7
Sixmile Creek										8
Miller Mountain										9
Miller Mountain Lookout										10
Little Ninemile Creek										11
Ninemile Creek										12
Mitchell Point			(promontory)							13
Wilmont Creek										14
										15
										16
				Names underlined in red are approved. 2/17/49 L Heck						17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

GEOGRAPHIC NAMES

Survey No. T-8861

1 Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
Washington ✓									USGB	1
Ferry County ✓										2
Stevens County ✓										3
Colville Indian Reservation		✓								4
Franklin D. Roosevelt Lake		✓							USGB	5
Washington No. 22 ✓										6
										7
Oropothum Creek ✓										8
Fruitland ✓										9
Fruitland Grade School ✓										10
Alder Creek ✓										11
Hunter Creek ✓			(without final e)							12
Hunters ✓										13
Hunters High School ✓										14
Hunters Grade School ✓										15
Catholic Church ✓										16
Presbyterian Church ✓										17
Hunters Landing ✓										18
Nez Perce Creek ✓										19
Fall Creek ✓										20
Coyote Creek ✓										21
Rogers Bar Store ✓										22
Hazelmere School ✓										23
Manahan Creek ✓										24
					Names underlined inred are approved. 2/28/49 L. Hack					25
										26
										27

GEOGRAPHIC NAMES

Survey No. T-8862

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
Washington									USGB	1
Ferry County										2
Stevens County										3
Colville Indian Reservation										4
Franklin D. Roosevelt Lake									USGB	5
Washington Highway No. 22										6
										7
Cedonia										8
Cedonia Elementary School										9
Harvey Creek										10
Harvey Creek Road										11
Bissell Road										12
Bissell										13
Bissell School										14
Clark Lake										15
Bissell Flats		east side of lake								16
Covada										17
Stray Dog Canyon										18
										19
				Names underlined in red are approved. 3/3/49						20
										21
										22
										23
										24
										25
										26
										27

DIVISION OF PHOTOGRAMMETRY
Review Report of
Shoreline Map Manuscripts T-8860 to T-8862
(Area of the Fourth Radial Plot, Ph-2,45)

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

26. CONTROL

All second-order triangulation stations had been adjusted from Grand Coulee Dam Grid values to Lambert Projection values (N.A. 1927 Datum); and all third-order stations (the CP series) had been adjusted from the same grid to the Washington North Zone plane coordinate values.

A list of the recovered and unrecovered stations appearing on the map manuscript is attached to the descriptive report.

The following stations were added to the map manuscripts during review:

T-8860			T-8861			T-8862		
Stoner	USBR	1935	Glasgow	USBR	1934	Cedonia	USBR	1935
Smoke	"	"	Gold, I.S. (SS)	"	1935	Landslide	"	1936
*Larsen	"	"	Dredge	"	"	Covada	"	"
Fog, I.S.	"	"	Elbow SS	"	"	Moore	"	"
			Nez Perce SS	"	"	Putnam	"	"
			Cole, I.S.	"	"	Fobes, I.S.	"	"
						Butte, SS	"	"
						Bissell, I.S.	"	"

*LARSEN, on page 1043 of the G.P. list, is spelled LARSON on the U.S.C.S. map covering Net No. 3 of Second-Order Triangulation, Columbia River. ~~The U.S.C.S. spelling was retained.~~

47. GEOGRAPHIC NAMES

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

43. COMPARISON WITH PREVIOUS TOPOGRAPHIC SURVEYS

There are no earlier topographic surveys, and the hydrographic survey is in process.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

U.S.F. Bissell 1/125000 1939 (tactical). Not available for comparison.

see H-7589 for slight shoreline change affecting T-8861. adj 7-12-50

The adjoining maps of this series contain no contours; the highways and other culture are obsolete. It is, therefore, assumed that the present surveys supersede the survey listed above, for their common area except for the land net and boundaries, as was the case in the areas common to the other maps of the U.S.E. series.

Reviewed by:

Lena T. Stevens

Lena T. Stevens

T-8860	18 Feb. 1949
T-8861	26 Feb. 1949
T-8862	3 Mar. 1949

APPROVED BY:

A. V. Griffith

Chief, Review Section

H. C. Edmonston

Chief, Nautical Chart Branch
Division of Charts

O. T. Reading

Chief, Div. of Photogrammetry

Wm. Seaife

Chief, Div. of Coastal Surveys

applied to Ch 6169 2/6/53 - JPW