8863 8864 8865

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

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

REPORT DESCRIPTIVE

Planimetric Air Photographic Shoreline

Type of Survey

T-8863,

Field No. Ph-2 (45) Office No. T-8864 &T-8865

LOCALITY

Washington

General locality F.D.Roosevelt Lake

Locality From West Bissell Flats to 1.5 miles north of Rickey Point

1946-147

CHIEF OF PARTY

J.T.Jarman

LIBRARY & ARCHIVES

DATE November 10, 1949

B-1870-1 (1)

DATA RECORD

T-8863

Quadrangle (II): Bissell, Wash. (USE) 30 minute 1:125,000

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

Division of Copy filed in Descriptive Photogrammetry Office Files

Completed survey received in office: 9 April, 1948

Reported to Nautical Chart Section: 16 April, 1948

Reviewed: 9 March. 1949

Applied to chart No.

Date:

Redrafting Completed: ---

Registered: 14 Oct 1949

Published:

Compilation Scale: 1:10000

Published Scale:

Scale Factor (III): None

Normal Pool Elevation, 1290' above (USBA, 1437)

Geographic Datum (III): N. A. 1927

Datum Plane (III): Mean Sea Level = 1288.5± USCEGS,1927

Reference Station (III): ELBURN (USBR) 1936 r 1947

Lat.: 48° 19' 18.665" (576.5m) Long.: 118° 08' 38.357" (790.2m) Adjusted x Unadjusted

State Plane Coordinates (VI): Washington North Zone

X = 2,654,189.39

Y = 493 607-18

Military Grid Zone (VI)

PHOTOGRAPHS (III)

Water Level Number Date Scale Time 9 lens 8/22/46 13:21 P.S.T. 1:10000 1289.65 above M.S.L. 17522 to 17524 17631 to 17634 8/27/46 9:44 P.S.T. 1:10000 1289.61 above M.S.L. U.S.Army Single lens Unknown 13-6 to 18-6 Inc. 1944 1:20000 Unknown Unknown 38-7 to 41-7 Inc. 1944 Unknown 1:20000

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: James L. Harris date: Nov. 26, 1947

Control checked by: Frank Elrod date: Nov. 26, 1947

Radial Plot by: J. L. Harris & J. E. Deal date: Dec. 10, 1947

Detailed by: Helen Letson date: Jan. 30, 1948

Reviewed in compilation office by: Ree H. Barron date: Feb. 13, 1948

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): 28.2 statute miles

Shoreline (Less than 200 meters to opposite shore): 2.0 statute miles

Number of Recoverable Topographic Stations established: 3

Number of Temporary Hydrographic Stations located by radial plot: 51

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).

D	0	m	0	30	1	-	A

Recovery of horizontal control:

C. Henavich, J. C. Lajoye, J. H. Winniford

Shoreline Inspection: 10-17-47 to 10-20-47 J. C. Lajoye, J. H. Winniford, R. W. Sherwood

Interior Field Inspection and Geographic names: 8-27-47 to 11-18-47
J. H. Winniford

Recovery of vertical control:

C. Hanavich

8-4-47 to 10-15-47

Note: This report contains bridges & caple-crossing data for the Sixth & the Seventh Radial Plots.

DATA RECORD

T- 8864

Quadrangle (II): Bissell, Wash. (USE) 30 minute 1:125,000

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

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

Compilation Office: Portland, Orechief of Party: R. A. Earle

Instructions dated (II III): 4/3/47 5/15/47

Copy filed in Descriptive Photogrammetry Office Files

Completed survey received in office: 9April, 1948

Reported to Nautical Chart Section: 14 April 1948

Reviewed: 15 Har. 1949

Applied to chart No.

Date:

Redrafting Completed: ---

Registered: 14 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, 193) 1288.5 ± USCX GS, 1927

Normal Pool Elevation

Reference Station (III): RIM (USBR) 1938 r 1947

Lat.: 48° 24' 33.513" (1035.2m) Long.: 118° 10' 10.610" (218.2m) Adjusted x Unad justed

State Plane Coordinates (VI): Washington, North Zone

X = 2,644, 854.23

Y = 525,276.05

Military Grid Zone (VI)

PHOTOGRAPHS (III)

	Number	Date	Time	Scale	Water Level
F	9 lens		,	<u></u>	
	17525 to 17528 Inc.	8/22/46	13:23 PST	1:10000	1289.65 above M.S.L.
	17634 to 17638 Inc.	8/27/46	9:48 PST	1:10000	1289.61 above M.S.D.
	J.S.Army Single len	S			
•	33-4	1944	Unknown	1:20000	Unknown
	19-6,20-6 & 24-6	1944	Unknown	1:20000	Unknown
	30-7 to 37-7 Inc.	1944	Unknown	1:20000	Unknown
	99-7 to 103-7 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: F. Elrod date: Nov. 28, 1947

Control checked by: J. L. Harris date: Nov. 28, 1947

Radial Plot by: J. L. Harris & J. E. Deal date: Dec. 10, 1947

Detailed by: Roy A. Davidson date: Jan. 30, 1948

Reviewed in compilation office by: Ree H. Barron date: Feb. 18, 1948

Elevations on Field Edit Sheet

checked by: None

date:

STATISTICS (III)

Iand Area (Sq. Statute Miles): 31.1 (Complete detail along shoreline) (Skeleton detail interior

Shoreline (More than 200 meters to opposite shore): 16.0 statute miles

Shoreline (Less than 200 meters to opposite shore): 0.5 statute mile

Number of Recoverable Topographic Stations established: 3

Number of Temporary Hydrographic Stations located by radial plot: 37

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

Shoreline Inspection: 10-15-47 to 10-17-47

J.C.Lajoye, J.H.Winniford, R.W.Sherwood

Interior Field Inspection and Geographic Names: 11-13-47 to 11-18-47

J.H.Winniford

Recovery of vertical control: 8-4-47 to 10-15-47

C.Hanavich

9-5-47 to 11-16-47

DATA RECORD

T-8865

Bissell, Wash, (USE)

Quadrangle (II): Marcus, Wash. (USE)

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

30 minute 1:125000

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)

Photogrammetry Office Files.

Completed survey received in office: 9 April, 1948

Reported to Nautical Chart Section: 16 April, 1948

Reviewed: /8 Har 1949 Applied to

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 (USBR193)
1288.5 ± USC EGS, 1927

Normal Poul Elevation,

Reference Station (III): RICKEY S.S. (WSBR) 1936 r 1947

Lat.: 48° 32' 29.881" (923.0m) Long.: 118° 07' 09.757" (200.1m) Adjusted x Unadjusted

State Plane Coordinates (VI): Mashington, North Zone

X = 2,657,346-64' Y = 573,945-94'

Military Grid Zone (VI)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Mater Peaer
9 lens	· 			
17529 to 17533 Inc.	8/22/46	13:26 PST	1:10000	1289.65 above M.S.L.
17639 to 17641 Inc.		9:51 PST	1:10000	1289.61 above M.S.L.
17648 to 17650 Inc.		10:11 PST	1:10000	1289.61 above M.S.L.
J.S.Army Single Lens	3			
25-6 to 31-6 Inc.	1944	Unknown	1:20000	Unknown
53-6 to 56-6 Inc.	1944	Unknown	1:20000	Unknown
26-7 to 29-7 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: Nov. 1947

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

Control plotted by: J.L.Harris date: Dec. 1, 1947

Control checked by: F. Elrod date: Dec. 2, 1947

Radial Plot by: J. L. Harris & J. E. Deal date: Dec. 10,1947

Detailed by: C. C. Wiebe date: Feb. 17, 1948

Reviewed in compilation office by: Ree H. Barron date: March 5, 1948

Elevations on Field Edit Sheet

checked by: None

HW

date:

STATISTICS (III)

Iand Area (Sq. Statute Miles): 30.3 (Complete detail along shoreline) (Skeleton detail interior

Shoreline (More than 200 meters to opposite shore): 19.5 statute miles

Shoreline (Less than 200 meters to opposite shore): 0.8 statute mile

Number of Recoverable Topographic Stations established: 2

Number of Temporary Hydrographic Stations located by radial plot: 51

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 and J.H.Winniford

Shoreline Inspection: 10/1/47 to 10/3/47 J.C.Lajoye, J.H.Winniford, R.W.Sherwood

Interior field inspection & geographic names: 11/7/47 to 11/13/47 J.H.Winniford

Recovery of vertical control: 8/4/47 to 10/15/47 C. Hanavich

1	(1			C	rage 1	
MAP T- 8863		PROJE	PROJECT NO. Ph-2(45)	SCALE OF MAP 1:10,000	000	SCAL FACTOR	OR None
STATION sou	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR V-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	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)
INCHELIUM G. G-6		N. A.	48°-17'-01.024"	31.6 (1821.6)			Used in radial
1936	7,1034	1927	1180-12'-16,274	335.5 (901.5)			plot
HALL, (USBR) G-6	0-6760	=	48°-19'-43.628	1347.6 (505.7)			=
1936	1052		118°-12′-05.086	104.8 (1131.1)			
ELBURN (USBR) G-6	0945	=	48°-19'-18,665	576.5 (1276.8)			н
1936	1052		118°- 08'- 38.357	790.2 (445.9)			
MILLEN S.S. (HSBR)G-6760	6760	=	48°-16'-26,269	811.4 (1041.9)			=
7,9 th 1936 10	1074		118°- 09′- 31.905	657.9 (579.3)			
KNOB (USBR) G-6	09-67-6	=	20'- 3	1146.3 (707.0)			=
2 1936	1053		118°- 09′- 08.256	170.0 (1065.5)			
UR 6164+90.88) Fie	Field	=	483,837,95	1169.8 (354.2)			=
r. 1947 1936 Comp.	9		2,654,507.89	1374.0 (150.0) 1			
UL 4261+37.25 "	(13	=	476,858,04	566.3 (957.7)			No report, plot-
1936	119		2,652,502,16	762.7 (761.3) 3			hydro party
UL 4334+13.80 "	=	=	482,811,79	857.0 (667.0)			=
1936	**		2,649,110,78	1253.0 (271.0)			
UL 4405+59.40 "	1819	=	487,815,26	858.1 (665.9) 0			п
1936	(7)		2,645,912,00	278.0 (1246.0) %			
UR 6261+26.83 "	08	=	758,798,54	1157.8 (366.2) 2.			Recovered, not
1936	FX		2,653,212.04	979.0 (545.0)			identified
UR 60,9417.00 "	-5	=	473,990,62	1216.3 (307.7)			No report, plot-
1936	7		2,657,822,17	860.8 (663.2)			ted at request of
UL 4554+16.50 "	446 213 466	=	489,141,07	1262,2 (261,8)			11
1936	,	,	2,644,474,17	1363,7 (160,3)			
COMPUTED BY: J.E. DEAL	PAL	DA1	DATE 11/21/47		R.A.DAVIDSON	DATE 11/21/47	M-2388-12

MAP T- 8863	•		PROJECT NO. Ph-2(45)	SCALE OF MAP	000.	SCAL FACTOR	OR None
STATION	SOURCE OF INFORMATION (INDEX)		LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE JIN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE 1N WETERS FORWARD (BACK)
CP 134	4.0.4	V Z	504,943,84	1506.9 (17.1)			No report, plot-
1936	Comp.	1927	2,642,474,02	754.1 (769.9)			hydro party
CP 177			508,986,42				#
un 0470771111 1936	1		2,679,058,97	1237.2 (286.8)			
CP 173	=	===	495,508,24	154,9 (1369,1)			=
uk 6330+30•33 1936			2,652,121,61	646.7 (877.3)			
CP 132	=	=	497,063.13	628,8 (895,2)			=
1936			2,643,206,17	977.2 (546.8)	ļ		
CP 175	=	=======================================	502,153,31	656,3 (867,7)			Recovered, not
on out of 02.42	- 1		2,649,859,75				identified
			•				
			,				
	*;						
					i		4
						-	
	<u> </u>						
1 FT 3048006 METER J. E. DEAL COMPUTED BY.	- 1	_ DA	DATE 11/21/47	CHECKED BY. R.A. DAVIDSON	DAVIDSON	DATE 11/21/47	1/21/47
							•

	- PROJE	PROJECT NO. Ph-2(45)	SCALE OF MAP1:10000	00001	SCALO 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)	MI	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
RIM C.1947 G-6760	N. A.	48° 24' 33.513	1035.2 (818,1)		Used in radial
R) 1936 6.P.	1927	118 10 10,610	218.2 (1015.8)		plot
ROSE C. 1947 G-6760	=	48 26 04,386	135.5 (1717.8)		=
1) 1936		118 10 25,961			
ROAD C. 1947 Form	=	48 22 22.91	707.6 (1145.7)		и
1976		118 11 45.37	933.8 (301.1)		
CP 138 (Tr. 4039-19 74) Field	=	522,448.11	746.2 (777.8)	_	a a
1.1947		2,638,141,83	957.6 (566.4)		
(PP 26 96 96)	=	520,427,54)		=
1936 C.1947		2,646,059,13	322.8 (1201.2)	me	
CP 189 (IIP 6861 26 777)		538,204,86		ler	Recovered, plotted
(1167)		2,639,622,12			three orbit,
CP 191 (IR 6915-08 06) "	=	542,060.14	627.9 (896.1)	to	Recovered
(anima)		2,639,738,70		9	
(UL 4868-75.30) "	=	512,766/12	843.1 (680.9)	ric	Plotted at request
1		2,641,516,57	462.3 (1061.7	(of hydro oarty
CP140 " (M. 5101-02 62) " The	=	527,524,77	769.5 (754.5)		Recovered
(1987)		2,636,020,46	311.0 (1213.0)		
(III. 5273_81 87 = 55	-	542,151.58	655.8 (868.2)		Plotted at request
10000		2,634,214,99	1284.7 (239.3)		of hydro narty
(III. 5191-77.25) " 80	=		1340.7 (183.3)		1
((2.1)=1/1/					
1219 1 hhb	F. 44				
1 FT.=.3048006 METER COMPUTED BY: J. L. Harris	<u> </u>	DATE 11/25/47	CHECKED BY	R.A. Davidson	M-2388-12 DATE 11/26/17

Page 2

STATION	ion 2-50.26) 4-84.75) 6-52.25) 7.497						
N. A.	2-50.26) 4-84.75) 6-52.25) (4-18.35)		LATITUDE OR 4-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METER FORWARD (BACK)		N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTA FROM GRID OR PROJE IN METERS FORWARD
1927	74-84.75) 74-84.75) 74-18.35)		514,324,55				Recovered
" 25,675,63 205,9 (1318,1) 2,644,653.75 1418,5 (105,5) " 250,605.28 184,5 (1339,5) " 2,643,701.13 1128,1 (395,9) " 2,539,978.05 1577,3 (6.7) " 48° 26; 38,710" 1195,7 (657,6) " 118° 13; 33.668" 691,9 (541,2) " 1/38/18	4-84.75) 6-52.25) 4-18.35)	1927	2,647,776,72)		
2,544,653.75 1418.5 (105.5). 2,543,701.13 1128.1 (395.9) 2,543,701.13 1128.1 (395.9) 1, 2,539,78.05 1517.3 (6.7) 1, 48° 26' 38.70'' 1195.7 (657.6) 1, 18° 13' 33.668'' 691.9 (541.2)	35 5726-52.25) 37 5784-18.35) 4BX 3)	=	525,675.63) (Plotted atrreques
"	35 5726–52.25) 37 5784–18.35) ABY 3)		2,644,653,75		(of Hydro Party
" \$33,096,98 944.0 (580.0) " \$33,096,98 944.0 (580.0) " 48° 26! 38,710" 1195,7 (657.6) " 18° 13! 33,668" 691,9 (541.2)	37 5784-18.35) ABY 3)	*	530,605,28		(=
"	37 5784-18.35) ABY R)	:	2,643,701,13				
118° 131 33.668" 691.9 (541.2) 118° 131 33.668" 691.9 (541.2)	4BY (1,447)		533,096,98				E
118° 131 33.668" 691.9 (541.2) 118° 131 33.668" 691.9 (541.2)	ABY A) C. (4.9.7)		2,639,978,05).		
118° 13' 33.668" 691.9 (541.2)	(3)	ŧ	261	9)	(Recovered
1/28//R			131 33	6			
1/28/18							
1/28/18							
1/28/18		•					
1/28//R				•			
1/28//2							
1/28///8							
1/28///8							
1/28/18							
1/28///8							
1/28/18							
1/28//2							
1/28/18							
1/28///8							
1/28///8))					
	1 FT. = .3048008 METER	 	1/28/18	1	T. Howars	٤/ ١	M. 2368-12

0	(0	Page 1	
MAP T- 8865		PROJEC	PROJECT NO. Ph-2(45)	(45)	SCALE 0	OF MAP 1	1:10000	SCAL FACTOR	OR None
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	ORDINATE	DISTANCE FROOR PROJECTION FORWARD	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	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)
BROWN (TISTR)	0-6760	NA	48 33	37.388	1154.9	(698.5)			Used in radial
	2.1054	927	118 09	23.746	6.987	(743.4)			plot
DITTICH (TISBR)	0-6760	=	48 32	29.294	6.706	(4.876)			=
-	1054		118 11	04,482	91.9	(1138,8)			
WHITE (ISBR)	0-6760	=	48 29	31,176	963.0	(890.3)		典	п
	1054		118 09	24.994	513.2	(718.7)			
RICKEY (TERR)	0,4760	=	48 32	29.881	923.0	(930.3)			=
	1075		118 07	09.757	200,1	(1030.6)			
ROY (USBR)	0929-0	-	48 33	51,751	1598.5	(254.8)			
	1054		118 06	28,304	580.3	(6.649.9)			
GOAT (TSBR)	0929-5	=	48 28	26.470	817.6	(1035.7)			Recovered, not
	1054		118 12	51.400	1055.7	(176.6)			identified
FOSTER (USBR)	0-6760	=	48 30	27,133	838.1	(1015,2)			Used in radial
	1054		118 11	56,232	1154.2	(77.3)			plot
CP 150 (IL 5489-92.29)	Field	=	558	58,991,16	1216.5	(307.5)	_		н
1936 , 1947	Comp		2,641,	2,641,472.08	448.7	(1075.3)	m		
CP 199 (ITR 72,3-86 23)	=	=	567,	567,614,99	797.0	(727.0)	ele		
1936 - 1947	. sep.		2,653,	2,653,262,79	994.5	(529.5)	rs		
CP 197 (TR 71 58 - 33 61)	= hie	=	560,	560,383.79	117.0	(1407.0)	Co		Recovered not
. 2	1917		2,649,	2,649,164.58	1269.4	(254.6)	9		identified
CP 146	08	=	548	548.748.90	1142.7	(381,3)	rio		Haed th radial
1936 (1947			2,636,	2,636,092.01	332,8	(1191.2)	_		plot
UR 7419-78.83	5 {c,	=	578	578,488,67	1063.3	(7.097)			=
1936 11847	15		2,655,	2,655,040,40	12,3	(1511,7)			
I FT. = 3048006 METER	J.L. Harris	DATE		17,	CHE	CHECKED BY. R.A. Davidson	avideon) nare 11/	11/26/47 WW. 2388-12

Page 2

OR None	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	Recovered not	identified	Not recovered	of hydro party.	Recovered not	identified	=		#			and the second s	Not recognised	of hydro party			Lost, plotted at	request or nyaro			11/26/47 W
SCALP FACTOR	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN WETERS FORWARD (BACK)				Jo									1								fl nate
10000	DATUM																					R.A. Davidson
SCALE OF MAP 1:10000	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	(403.4)	(605,6)	(1510.7)	(946.2)	(292,3)	(1515.9)	(1196.2)	(865.6)	(818,9)	(175,7)	(1150.7)	(67.8)	(3.677)	(1295.7	(157.8)	(937.0)	(616.5)	(584.4)			CHECKED BY. R.
SCALE C	DISTANCE FR OR PROJECTIO FORWARD	1449.9	626.7	13.3	577.8	1231,7	φ •1	327.8	658.4	704.1	1348.3	373.3	1456,2	744.2	228.3	1366.2	587.0	907.5	939.6			3
h-2(45)	LATITUDE OR v.COORDINATE LONGITUDE OR x-COORDINATE	46.939	30.514	565.043.72	2,641,895,66	569,040,99 1231,7	2,645,026,42	571,075,30	2,647,160.03	577,310,10	2,649,423,69 1348,3	581, 224, 74	2,649,777,64 1456,2	547,441,62	2,640,748.97		2,646,925,90	572,977.31	2,653,082,60			11/25/47
PROJECT NO. Ph-2(45)	LATITUDE (LONGITUDE	48° 28'	118 08																			DATE 11/25/47
PROJE	DATUM	N. A.	327	=	:	ц		=				E		=		=		=				
	SOURCE OF INFORMATION (INDEX)	G-6760	o, 1034	4 F	Comp.	п	_	=		=	-	- 4>< 4 =	181	101q =	?7	08E.	?-5	\(\frac{1}{\lambda}\)	- 1			L.Harris
MAP T- 8865	STATION	RICE (C&GS)	,, s.p.	, , , , , , ,	1936	CP 154 (m 561 / 85 82)	1936	CP 156 (III. 5732-80 78)	1936	CP 158	1936	CP 160 (III. 5860-98 (R)	1936	CP 193	1936	CP 195 (IIR 7087-33-44.)	1936	CP 203	1936 1944-01.04)			COMPUTED BY. J.L. Harris

FIELD INSPECTION REPORT Area of the Fifth, Sixth and Seventh Radial Plots Project PH-2 (45)

1. Description of the Area:

In view of the general similarity in the topography and culture found in the areas of the fifth, sixth and seventh radial plots, a combined report will be submitted. These radial plots are non-prised of the following 10 shoreline surveys:

Fifth Radial Plot: 8863 to 8865 inclusive Sixth " : 8866 to 8869 "
Seventh " : 8870 to 8872 "

A General Description of the Area:

The area covered by this report includes the Franklin D. Roosevelt Lake from the small towns of Gifford and Inchelium in sheet 8863 to the International Boundary, and the Kettle River from its mouth upstream to Barstow, Wn.

Rugged, timber covered mountains are found on both sides of the lake as it meanders through a canyon; the same can be said of the Kettle River. Logged-off stretches are found occasionally. Narrow to wide grass and timber benches adjoin the lake on each side throughout most of this area. From Evans, about 8 miles north of Kettle Falls, to Northport, the reservoir narrows down to about 0.3 mile in width. From Northport to the northern limits of the Project, it narrows again to 0.2 mile and less.

In general, the rock formations are of the metamorphic type and are found in the following categories: slate, schist, and marble (lime-stone and dolomite).

The drainage is, as a rule, heavily incised and the greater part of it is perennial. There are many creeks or streams in the area. The principle tributaries of the lake are the Kettle and Colville Rivers.

The vegetation in the area consists of native grasslands and two types of wooded areas which are: 1) The yellow pine that is found in the southern part of the area. 2) And the Canadian type of tamarack (larch), fir, etc.

Between the small settlement of Evens and the International Boundary, a definite current is found which increases as the boundary line is approached. Exposed rocks, gravel bars, eddies and small whirlpools were noticed upstream from Northport to the anadian line. The current in the vicinity of the Little Dalles, just north of the abandoned settlement of Marble and about 6 miles southwest of Northport, is less than in the 10-mile stretch south of the boundary line. The Little Dalles is a bottle-neck in the lake; and was a well-known rapids area before the waters in the lake were impounded.

It was ascertained from the immigration officer at Northport that during the Spring and early Summer months, the river or lake is a torrent in its upper reaches and does not taper off until within a few miles north of Kettle Falls. Two crests are encountered. The first crest occurs around the first of June when the run-offs from the scuthern tributaries take place. The second crest takes place around the first of July and is attributed to the northern tributaries, high mountain snows, et cetera, in British Columbia. In view of this, the Lake in this area does not reach its normal or approximate level until the latter part of July. And it is not until about this time that boat operations are feasible in this vicinity.

Two automatic recording gages housed in small concrete structures and maintained by the USGS are found on the southeast side of the river or lake; they are about 0.3 mile and 3 miles south of the International Boundary.

There are only a few roads in the vicinity. A macadam road (State Highway 221 extends along the east and southeast side of the lake as far north as Northport; at Northport it crosses the lake and continues northward out of the area. A gravel and dirt road (State Highway 22A) follows the southeast side of the lake from Northport to the Canadian line. There are no other graded roads on the west side of the lake in sheet 8872 except for a few lateral logging roads that extend into the area. One other major highway (US 395) parallels the Kettle River on the west side; it crosses the lake in sheet 8866 and runs eastward through Kettle Falls. A graded and drained road parallels the east side of the Kettle River, then swings eastward at its mouth and follows the west and northwest side of the lake proper to Northport. From the Kettle Falls Bridge a drained and graded road follows the west side of the lake southward to Inchelium. The Great Northern Railroad runs from Kettle Falls to the International Boundary along the east and southeast side of the lake, and is the only railroad line in the area.

Of the several small towns in the area, Kettle Falls and Northport are the chief ones; they are small trading centers.

The Fifth Radial Plot: 7-8863

On the east side of the lake in the area adjacent to and south of Gifford, a sloping sedimentary bench fronts the lake. Inland of this bench is a rugged mountain terrain that extends in a general North-South direction from the Colville River to Hunters, Wn. Steep slopes rising abruptly from the shoreline are found between Gifford and Daisy. 7863 North of the small town of Daisy, a broad sedimentary bench (the small reserve settlement of Rice is located on it) extends northward to a point about opposite the mouth of La Fleur Creek. From this point to Rickey Creek reserve the mountain slopes are replaced by a low sand bench that extends to the north limits of this plot.

The town of Inchelium on the west side of the lake is located on a clay or sand bench that varies widely in width and reaches northward

almost to Barnaby Creek. Between this point and Martin Creek, steep mountain slopes adjoin the lake. From Martin Creek to the north edge of this plot the lake confronts a sand bench.

The Sixth Radial Plot: 7-8868
7-8869

The slopes of Mingo Mountain (on the east side of the lake) rise rapidly south of the mouth of the Colville River and east of the sand bench that borders the lake. North of the Colville River is a wide sand bench on which the town of Kettle Falls is located. Except for a narrow bench along the lake in the vicinity of Marcus, steep mountain slopes are found along the lake between Kettle Falls and just south of Powell Landing. A sand bench fronts the lake from this latter point to about a mile northwest of the settlement of Bossburg. This in turn gives way to steep rocky slopes which continue to a point directly east of Glasco Lakes. From here to about 0.5 mile south of where the lake meanders sharply to east, a low, partially flooded bench is found along the lake with erosion banks ranging from 5 to 10 feet in height down to where there are no banks at all. North of this low flat bench rises another sand bench about 125 to 150 feet above the level of the lake; it continues to a point about opposite the mouth of Flat Creek. North of here steep limestone slopes rise from the shore and continue to the north limits of this plot.

The topography on the west side is almost identical with that found on the east side. Steep mountain slopes of slate or granite rise from the water with sand benches of varying elevation occasionally found lying on these slopes. The same applies in defining the topography along the Kettle River.

The pool characteristics in the Kettle River extend as far north as the Napoleon District. Upstream from this point it becomes a fast flowing mountain river with numerous gravel bars and erosion banks from 15 to 20 feet high. Rock bluffs are found occasionally.

The Seventh Radial Plot: 7-8870
7-8871
7-8872

A series of sand benches that vary in width and elevation extend upstream as far as the Little Dalles along the east and southeast side of the lake. In places, limestone outcrops break up this pattern. The Little Dalles was formerly the site of some rapids in the old Columbia River; the impounded waters have just about eliminated them. North of the Little Dalles one finds steep slopes, which are underlain by limestone, extending to about one mile southwest of the town of Northport. This town is located on a large sand bench about 40 feet above the lake level. Between Northport and the International Boundary (the north limits of the Project), small sand benches alternate with steep and rugged mountain slopes which rise from the water's edge.

Topographically, the area along the northwest side of the lake is similar.

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, Project FH-2 (45)".

3: Interpretation of the Photographs:

Refer to this side heading of the field inspection reports for the first, third and fourth radial plots on this Project.

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:

No contouring is involved in the area.

Major drainage was located and classified in the field concurrently with the geographic names investigation. The drainage in general is perennial although some of the streams do become intermittent or disappear on encountering the same benches that front the lake.

For additional information see side heading 2, paragraph 2, of the field inspection report for the first radial plot area.

7. Shoreline Plane of Reference:

The shoreline inspection was accomplished between the Little Dalles and the International Boundary, where a river gradient is in effect, during the month of October. The shoreline was found to be in close agreement with that found on the 9-lens photographs which were taken during the month of August in 1946. A photostatic copy of the reservoir profile is attached to the back of this report, and it is believed that the profile indicates closely the normal pool and river gradient characteristics between the Grand Coulee Dam and the International Boundary. For additional information refer to the general description of the area under side heading 1 of this report, and to the Special Report on Vertical Control, PNIN (AS).

In addition, refer to this side heading under the first five paragraphs of the "Field Inspection Report, Area of the First Radial Plot, ..."; the remaining paragraphs under this side heading on the subject Of U.S. Army single lens photographs (1:20,000) is not applicable to sheets 8869 to 8872, inasmusch, as these single lens photographs were not available for this area.

8. Low-Water Line:

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

9. Whatves and Shoreline Structures:

Two adjustable ramps are located in sheet 8863 - one at Gifford, the other at Inchelium. These ramps are not fixed and can be adjusted to fit the Gifford-Inchelium Ferry in the event the lake rises or falls. A rail-road loading trestle is located on the property of the Lafferty Transportation Company in sheet 8866. Similar ferry ramps were found at the temporary ferry crossing at Northport.

No wharves or other shoreline structures were found.

10. Details Offshore from the Shoreline Plane of Reference:

An abandoned gold dredge at Northport and other natural features such as rocks, gravel bars, small islands, shoal areas, etc., have been noted on the photographs. In areas where the shoreline is rocky, submerged rocks and ledges are suspected. Any rocks awash have been noted. The height of rocks that bare above the plane of reference has been indicated. The approximate limits of shoal areas have been shown and they are usually found where the benches adjoin the lake.

11. Landmarks and Aids to Navigation: (see # 34, Compilation Report)

A selection of prominent and less prominent objects along the shore was made and these were recommended for future charting.

A complete investigation of all fixed aids to navigation was made in the field. They were either identified directly on the phtographs or by instrumental methods. Their correct names were verified from the latest edition of the Light List. No discrepancies were found in the Light List with regard to their distinctive markings, etc:

Topographic stations established by instrumental methods consisted of three-point fixes using a theodolite or transit, with a check angle, 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 and as amended by the letter from the Acting Director dated 9 July 1947, on the subject of locating photo hydro stations.

Along several areas where densely wooded banks were encountered, no photo hydro stations were established since no definite detail was identifiable on the photographs.

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 sketchbook volumes 5 (fifth radial plot), 6 (sixth radial plot) and 7 (seventh radial plot).

13. Landing Fields and Aeronautical Aids:

There are no landing fields. One aeronautical aid was recommended for charting; it is LOOKOUT HOUSE, Swede Pass.

14. Road Classification:

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

15. Bridges and Cable Crossings:

There are several bridges and cable crossings in the area. They are:

Bridges:-

7-8866 1 Name: Kettle Falls Bridge

Location: 3 miles west of Kettle Falls, Wn. Owner: Washington State Highway Commission

Kind: Fixed

Number of Spans: 1

Channel Span: Horizontal Clearance - 301.0 feet

Vertical Clearance of lowest part above lake - 62.6 feet

Date of Field Measurements: 12:30 PM, 11/16/47 Lake level at Dam site on 11/16/47 at 12:30PM: 1289.9 (USBR Datum) Purpose of Bridge: Highway (US 395) (St. #3)

2 Name: None Location: 3 miles west of Kettle Falls, Wn.

Owner: Great Northern Railread

Kind: Fixed

Number of Spans: 1

Channel Span: Hor. Cl. (inner face of pier to pier) -605.2 feet

" (at points of maximum Vert. Cl. or between warning lights) - 460.2 feet

Vert. Cl. (between warning lights) - 47.5 feet

Date of Field Measurements: 10/10/47 at 2:30 PM " - 1289. (USBR Datum) Lake level at Dam site on

Purpose of Bridge: Railroad

3 Name: None

Location: Mouth of Kettle River Owner: Great Northern Railread

Kind: Fixed

Number of Spans: 1

Channel Span: Hor. Cl. (inner face of pier to edge of

irregular rock bluff) - 137.8 feet

Vert. Cl. of lowest part above lake - 37.9 feet

Date of Field Measurements: 10/10/47 at 3:00 PM -

" " - 1289.8 (USBR Datum) Lake level at Dam site on

Purpose of Bridge: Railroad

7-8866

T- 8867

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Owner: Washington State Highway Commission
    Kind: Fixed
    Number of Spans: 1
    Channel Span: Hor. Cl. (inner face of pier to edge
                            of irregular rock bluff) - 127.0 feet
                  Vert. Cl. of lowest part above lake - 33.0 feet
    Date of Field Measurements: 19/10/47 at 3:00 PM
    Lake level at Dam site on " " " - 1289.8 (USBR Datum)
    Purpose of Bridge: Highway (No number)
5 Name: None
                                                       7-8867
   Location: South of Boyds, Wn.
   Owner: Great Northern Railroad
   Kind: Fixed
  Number of Spans: 1
Channel Span: Hor. Cl. - 195.0 feet
   Date of Field Measurements: 10/10/47 at 3:15 PM " " - 1289.8' (USBRDatum)
                  Vert. Cl. of lowest part above lake - 27.4 feet
   Purpose of Bridge: Railroad
                                                     7-8867
   Name: None
   Location: At Napoleon, Wn.
   Owner: County Highway Commission
   Kind: Fixed
   Number of Spans: 2
   Channel Span: Hor. Cl. of east span - 97.3 feet
                           of west span - 77.5 feet
                  Vert. Cl (both spans) of lowest part above lake - 11.4 ft.
   Date of Field Measurements: 10/10/47 at 4:00 PM
    Lake level at Dam site on purpose of Bridge: Highway
                                         " " - 1289.9 (USBR Datum)
 7 Name: None
                                                 7-8871
    Location: at Northport, Wn. This bridge has been condemned & abandoned.
    Owner: Washington State Highway Commission
    Kind: Fixed
    Number of Spans: 3
    Channel Span: Hor. Cl. between inner faces of piers of each span -242.5
                  Vert. Cl. of lowest part above lake (each span) - 38.6
    Date of Field Measurements: 10/9/47 at 2:00 PM
    Lake level at Dam site on
                                  17
                                       " " - 1289.6 feet (user Dar.)
    Purpose of Bridge: Condemmed as a highway bridge & closed to traffic.
 Overhead Cable Crossings:-
    Power line crossing on north side of RR bridge at Kettle Falls Bridge.
    Vert. Cl. - 57.0 feet
                                                           T- 8866
    Date of Field Measurements: 10/10/47 at 2:10 PM
    Lake level at Dam site on
                                    11
                                        " " - 1289.81 (US BR Datum)
2. North cable crossing at Boundary, Wh.
                                                     7-8872
    Vert. Cl. - 66.3 feet
    Date of Field Measurement: 10/9/47 at 10.30 AM
    Lake level at Dam site on " " " - 1289.6.
```

7- 8867

Name: Kettle River Bridge

Location: Mouth of Kettle River

- 3 South Cable crossing at Boundary, Wn.
 Vert. Cl. 72.6 feet
 Date of Field Measurement: 10/9/47 at 10:00 PM
 Lake level at Dam site on " " 1289.6* (user Datum)
- # Power line crossing at Northport, Wn. 7-887/
 Vert. Cl. 35.1 feet

 Date of Field Measurements: 10/9/47 at 1:00 PM

 Lake level at Dam site on " " " 1289.6*
- Fower line crossing at Little Dalles, Wn. 7.8870

 Vert. Cl. 69.9 feet

 Date of Field Measurement: 10/10/47 at 10:30 FM

 Lake level at Dam site on " " " 1289.8'
- Power line crossing NW of Bossburg, Wn.

 Vert. Cl. 96.17feet

 Date of Field Measurement: 10/10/47 at 12:00 PM

 Lake level at Dam site on " " " " 1289.2' %.

No submarine cable crossings were found in the area. The information listed above has been noted on the field photographs in part.

16. Buildings and Structures:

A complete field investigation was made for buildings or structures along the water front. 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:

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

20. Ferries:

20

Two ferries were investigated and noted on the phtographs; they are:

a. The Gifford-Inchelium Ferry which is privately owned and
operated daily • A fee is charged.

7-8863

b. The temporary state owned ferry at Northport, Wn., operated daily and free of charge to the public. 7-887/

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

23. CP Stations along the Reservoir Boundary:

Refer to this side heading of the "Field Inspection Report, Area of the Fourth Radial Plot, Project PH-2 (45)".

Approved by:

Chief of Party

Respectfully submitted: Charles Hanavich

Charles Hanavich, Topographic Engineer

COMPILATION REPORT Map Manuscripts T-8863 to T-8865 Inclusive Area of the 5th Radial Plot Project Ph-2(45)

26. Control:

Twenty 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. All of the objects selected for sub-stations could be identified with certainty on a majority of the photographs. The stations were well spaced over the area and were sufficient to control the radial plot.

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 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-8863 to T-8865 inclusive, were combined into one radial plot known as Radial Plot No. 5, 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 hydrographic party; however, it is recommended that they be used for reference purposes only. As many difficulties are 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 waterline 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 map, which was used to supplement the photographs, 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 or reference.)

A complete discussion of this feature may be found in Paragraph 7 of the "Field Inspection Report, Area of the Fifth, Sixth and Seventh Radial Plots," which is attached to this descriptive report.

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 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 islands are the only details offshore from the Mean High-Water Line. (Refer to Paragraph 10 of the Field Inspection Report.)

33. Wharves and Shoreline Structures:

Refer to Paragraph 9 of the Field Inspection Report.

34. Landmarks and Aids to Navigation:

Form 567, recommending the charting of the following non-floating aids to navigation is attached: (4/50 Form 524)

	West Bissell Flats Daybeacon, 35T Mission Point 37 LtT	-8863	- (prick	d by instrument) ed direct
*	Gifford Ferry 36 LtT Chalk Grade 40 LtT			
	Shell Rock 41 LtT Barnaby Flats Daybeacon 39T	-8864	-	by instrument
*	Rickey 45 LightT	-8865	-	
	French Point Rocks 43 LtT	-8865	-	

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
8863	52	1	51
8864	39	2	37
8865	54	3	51

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:

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

37. Geographic Names:

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-8864 it was found that the geographic name "Pleasant School", as listed in the above report, was in error. The correct listing of this geographic name is: "Pleasant Valley".

38. Recoverable Topographic Stations:

Copies of Form 567 are being submitted for all 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.

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 Ja.
J. Edward Deal Jr.

Photogrammetric Engineer

Approved after additional comments were added:

Robert A. Earle Chief of Party

Athatt arle

jr

Rev. March 1935

U. S. COAST AND GEODETIC SURVEY

Area of 5th Radial Plot Project Ph-2(45) I-8863 to I-8865 Inc.

TO BE CHARTED STRIKE OUT ONE

LANDMARKS FOR CHARTS
(Fixed Aids to Navigation)

(Fixed Aids to Navigation)
Coulee Dam, Washington

19847

be charted on (delegation) the charts indicated. I recommend that the following objects which have (hore me) been inspected from seaward to determine their value as landmarks,

The positions given have been checked after listing. Heleal J. T. Jarman & R. A. Earle Chief of Party.

	(8+) (21,7	French Point Rocks 43 Lt.	Rickey 45 Light	Bernaby Flats Daybeacon 39	Shell Rock 41 Lt.	Chalk Grade 40, Lt.	Gifford Ferry 36 Lt.	Mission Point 37 Lt.	West Bissell Flats Daybeacon, 35	NAME AND DESCRIPTION	GENERAL LOCALITY Franklin D. Roosevelt Lake	
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		•		Radial	3 point		*	•	Radial Plot	LOCATION	METHOD	
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		=	*		=		•	•	Area not	AFFECTED	CHARTS	canej of Farty.

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CH' RTS." The data should be considered for the charts—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 8863 - 8864 - 8865 5th Radial Plot

	6301	Orange Sig. Cl. on large lone pine
)	6302	Red Sig. Cl. on large pine
	6303	White Sig. Cl. on small pine
	6304	White Sig. Cl. on pine near old road
	6305	Red Sig. Cl. on large pine
	6306	Orange Sig. Cl. on pine U/S of group
	6307	Orange Sig. Cl. on pine U/S of 2
	6308	Red Sig. Cl. on pine tree
	6309	White Sig. Cl. on bushy pine near snag
	6310	White Sig. Cl. on pine
	6311	Red Sig. Cl. on pine near ferry landing
	6312	White Sig. Cl. on U/S of large pines
	(120)	Orange Sig. Cl. on U/S of large pines
	6313	Orange Sig. Cl. on inshore pine of 2
	6314	Red Sig. Cl. on small pine
	6315	White Sig. Cl. on pine
	6316	White CL on pine
	6317	Red Sig. Cl. on pine tree
	6318	Red Cl. on D/S pine
	6319	Lone tree, W side of road
	6320	White on large pine
	6321	E gable of pumphouse
	6322	Red Sig. Cl. on pine
	6323	U/S gable of barn
	6324	White Cl. on small pine

6326 Red Cl. on tall pine 6327 White Sig. Cl. on snag 6328 White cloth on tall pine 6329 Red Sig. Cl. on pine, outer of 2 6330 Red Cl. on tall pine 6331 Orange Sig. Cl. on south of 2 pines 6332 White Cl. on tall, bushy pine 6334 Red Cl. on large pine 6335 Red Sig. Cl. on small pine bush 6336 White Cl. on pine 6337 White Sig. Cl. on D/S pine of 2 6338 White Cl. on lone pine 6339 Orange Cl. on pine, D/S and inshore of 2 6340 Red Sig. Cl. on double pine 6341 Red Sig. Cl. on pine 6342 White Cl. on U/S pine 6343 White Sig. Cl. on tall pine 6344 Gable of P.O. at Daisy, Wn. 6345 Orange Sig. Cl. on tall pine in clearing 6347 Red Sig. Cl. on large pine 6349 White Sig. Cl. on pine Orange Sig. Cl. on pine 6351A Red Sig. Cl. on bushy pine 6301A 74 White Sig. Cl. on tree 6302A 74 White Cl. on outer of 2 trees 6304A Red Cl. on pine near brush

Orange Sig. Cl. on dead pine

6325

- 6402 Red Sig. Cl. on small pine
- 6403 White Sig. Cl. on pine on point
- 6404 White Sig. Cl. on small pine
- 6405 Orange Sig. Cl. on large dead pine
- 6406 Orange Sig. Cl. on small pine
- 6407 White Sig. Cl. on pine tree
- 6408 Large pine, D/S and inshore from snag, not flagged
- 6409 E gable of old barn >
- 6410 Red Sig. Cl. on large pine at base of cliff
- 6411 Red Sig. Cl. on pine tree
- 6412 White Sig. Cl. on small pine on rock point
- 6413 White Sig. Cl. on large forked pine
- 6414 W gable of "L" shaped building /
- 6415 Red Sig. Cl. on apple tree
- 6416 Single pine on D/S side of eroded gully (not flagged)
- 6417 White Sig. Cl. on pine
- 6418 Single pine on fence, not flagged
- 6419 U/S gable of small shed
- 6420 Bushy pine at fence corner, not flagged
- 6421 U/S gable of house
- 6422 Forked pine, not flagged
- 6423 Red Sig. Cl. on small pine
- 6424 White Sig. Cl. on pine U/S of 2
- 6425 White Sig. Cl. pine tree
- 6426 Orange Sig. Cl. on pine
- 6427 Red Sig. Cl. on fir at top of bank
- 6428 Red Sig. Cl. on U/S of 2 small pines

6429 White Sig. Cl. on fir

6420 W gable of old barn

6431 Red Sig. Cl. on large pine snag

6432 White Sig. Cl. on pine

6433 White Sig. Cl. on pine

6434 Red Sig. Cl. on pine tree

6435 Red Sig. Cl. on pine tree

6435 Red Sig. Cl. on pine in clearing

6436 Orange Sig. Cl. on pine

6437 White Sig. Cl. on large pine

6438 White Sig. Cl. on pine between 2 snags

6501 Red Sig. Cl. on large pine

6502 White Sig. Cl. on dead tree

6503 White Sig. Cl. on group of small pines

6504 Orange Sig. Cl. on pine on E side of ditch

6505 Red Sig. Cl. on D/S edge of group of small pines

6505A Orange Sig. Cl. on 3 promged pine

6506 Red Sig. Cl. on pine, E side of highway

6507 U/S gable of high barn

6508 White Sig. Cl. on pine near highway

6509 White Cl. on pine

6510 Orange Sig. Cl. on pine near ditch

6511 Red Sig. Cl. on bush

6512 Red Sig. Cl. on small pine

6513 Red Sig. Cl. on pine at point

6514 White Sig. Cl. on pine tree

6515 Red Sig. Cl. on pine on point

6516 SW corner of old concrete foundation 651.7 White Sig. Cl. on double pine 6518 D/S gable of pumphouse 6519 Inshere commer of round roofed house 6520 Orange Sig. Cl. on pine 6521 Red cloth on large pine near road 6522 Red Sig. Cl. on fir. D/S from dec. clump 6523 White Sig. Cl. on large snag 6524 U/S gable of house 6525 E gable on large hayshed 6526 White flag on pine 6527 Red Sig. Cl. on pine at middle of orchard 6528 Orange cloth on small pine 6529 E gable of deserted house 6530 River gable, green roofed house 6531 White Cl. on small pine on edge of slide 6532 Red flag on large pine 6533 Red Sig. Cl. on pine at edge of clearing 6535 White Cl. on tall pine 6537 Red Cl. on lone pine 6538 White Sig. Cl. on small pine 6539 White Cl. on tall pine 6540 Orange Sig. Cl. on pine 6542 Red Sig. Cl. on pine tree 6543 White Sig. Cl. on small bushy pine

White Sig. Cl. on double forked poplar

Red Sig. Cl. on bushy pine

6544

6545

	6546	Orange Sig. Cl. on forked pine
	6547	Gable on shed at top of bench
	6548	Red Sig. Cl. on pine
a	6549	Gable on barn
	6550	White Sig. Cl. on pine
	6551.	White Cl. on pine .
ı	6552	W gable of umpainted bern
	6 <i>553</i>	Orange Cl. on tree, edge of bank

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Division of Photogrammetry Review Report of Shoreline Map Maruscripts T-8863 to T-8865 (Area of the Fifth 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). 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:

	<u> </u>			<u>T-8864</u>				
Dorr Hay SS	USBR	1936 "	Daisy Rain Slate Harvey Rice, SS	USBR # # #	1936 #	Mel	USBR	1936

34 Landmarks and Aids to Navigation

T-8864: Chalk Grade No. 40 (1372.2) is located on the east side of Columbia River, but the 1947 and 1948 Light Lists place it on the north side.

T-8865: Fickey No. 45 (1372.5) is located on the east side of Columbia River, but the 1947 and 1948 Light Lists place it on the west side.

The Nautical Chart Branch has been notified of this discrepancy.

37 Geographic Names

Names added during review:

T-8863: McGees Creek
T-8865: Pleasant Valley
La Fleur Creek

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.

hi Comparison with Existing Topographic Quadrangles

U.S.E. Bissell 1/125,000 1939 (tactical). Not available for comparison.

The adjoining mans of this series contain no contours, and 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.

U.S.G.S. Marcus 1/125,000 ed 1942

The present survey supersedes the quadrangle for shoreline and for the highways near the impounded water area in that pertion of the quadrangle common to T-8863-5.

Reviewed by:

T-8863 9 March, 1949 T-8864 15 March, 1949 T-8865 18 March, 1949

Approved by:

Chief. Nautical Chart Branch,

Division of Charts

applied to Ch 6169 - gfw 2/5/53

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