8857 8858

8859

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

8857 8858 8859

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-8857, T-8858 & T-8859

LOCALITY

State: Washington

General locality: F.D.Roosevelt Lake

Locality: Spokane River, Marble Flats to Little Falls

1946-'47

CHIEF OF PARTY

J.T.Jarman

LIBRARY & ARCHIVES

DATE: November 10, 1949

B-1870-1 (1)

Form T-1

DATA RECORD

T-8857

Quadrangle (II): Davenport, Washington (USE) 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: 28 April, 1948

Reported to Nautical Chart Section: 5 May, 1948

Reviewed: 28 Jan. 1949 Applied to chart No. Date:

Redrafting Completed: ——

Registered: 19 Oct. 1949 Published:

Compilation Scale: 1:10000 Published Scale:

Scale Factor (III): None

Geographic Datum (III): N. A. 1927 Datum Plane (III): Mean Sea Level (USBR, 1937) = 1288.5 ± USC&GS, 1929 (Normal Pool Elevation 1290' above)

Reference Station (III): MOUND (USBR) 1936 r 1947 p. 145

Lat.: 47° 56' 03.717" (114.8m) Long.: 118° 11' 06.582" (136.6m) Adjusted x Unadjusted

State Plane Coordinates (VI): Washington, North Zone

X = 2,649,040.82 Y = 351,994.99

Military Grid Zone (VI)

M-2467-12(3)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Water level
9 lens				
17489 to 17492 Inc.	8/22/46	12:21 PST	1:10000	1289.6 above MSL
17387 to 17391 Inc.	8/21/46	12:10 PST	1:10000	1289.6 above MSL
U.S.Army				
single lens				
4-2-493 to 6-2-493 Inc.	1944	Unknown	1:20000	Unknown
92-2-493	1944	Unknown	1:20000	Unknown
337W-5M253	7/18/45	Unknown	1:36000	Unknown (See p.3, Compil. Rept.)

Note:
A print of photograph No. 337-I-16Pl-5-M-253, Scale 1:36000 may be obtained from negatives on file at the office of the Chief of Staff, U.S. Air Force, Washington 25, D.C.

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): 8/22/46

Projection and Grids ruled by (III) Washington Office **date:** July 1947

" " " **checked by:** Washington Office **date:** July 1947

Control plotted by: James L. Harris **date:** Jan. 15, 1948

Control checked by: Ree H. Barron **date:** Jan. 16, 1948

Radial Plot by: J. L. Harris & J. E. Deal **date:** Jan. 30, 1948

Detailed by: Marie B. Elrod **date:** March 9, 1948

Reviewed in compilation office by: Ree H. Barron **date:** March 22, 1948

Elevations on Field Edit Sheet checked by: None **date:**

STATISTICS (III)

Land Area (Sq. Statute Miles): 44.0 (Complete detail along shoreline) (Skeleton detail interior)

Shoreline (More than 200 meters to opposite shore): 22.5 statute miles

Shoreline (Less than 200 meters to opposite shore): 2.5 statute miles

Number of Recoverable Topographic Stations established: 2

Number of Temporary Hydrographic Stations located by radial plot: 61

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	6/27/47 to 11/18/47
Shoreline Inspection: J. C. Lajoye	11/6/47 to 11/10/47
Interior Field Inspection and Geographic Names J. H. Winniford	6/29/47 to 7/14/47

Form T-1

DATA RECORD

T-8858

Quadrangle (II): Davenport, Washington (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~~ Division of Photogrammetry Office Files Report No. T- (VI)

Completed survey received in office: 28 April, 1948

Reported to Nautical Chart Section: 5 May, 1948

Reviewed: 2 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): Mean Sea Level (USBR 1941) Normal Pool Elevation 1290' above 1288.5± USC&GS 1929

Reference Station (III): CROW (USBR) 1935 & 1947

Lat.: 47° 50' 02.487" (76.8m) Long.: 118° 08' 32.399" (673.8m) Adjusted x Unadjusted

State Plane Coordinates (VI): Washington, North Zone

X = 2,660,813.06 Y = 315,779.79

Military Grid Zone (VI)

M-2467-12(3)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Water level
9 lens				
17419 to 17421 Inc.	8/22/46	10:43 PST	1:10000	1289.6 above M.S.L.
17470 to 17472 Inc.	8/22/46	11:49 PST	1:10000	1289.6 above M.S.L.
17486 to 17488 Inc.	8/22/46	12:12 PST	1:10000	1289.6 above M.S.L.

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: July 1947

" " " checked by: Washington Office date: July 1947

Control plotted by: James L. Harris date: Jan. 16, 1948

Control checked by: Ree H. Barron date: Jan. 16, 1948

Radial Plot by: J. L. Harris & J. E. Deal date: Jan. 30, 1948

Detailed by: Carita Wiebe date: Mar, 31, 1948

Reviewed in compilation office by: Ree H. Barron date: April 8, 1948

Elevations on Field Edit Sheet
checked by: None date:

STATISTICS (III)

Land Area (Sq. Statute Miles): 42.5 (Complete detail along shoreline) (Skeleton detail interior)

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

Shoreline (Less than 200 meters to opposite shore): 3.0 statute miles

Number of Recoverable Topographic Stations established: None

Number of Temporary Hydrographic Stations located by radial plot: 46

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	7/30/47 to 11/21/47
Shoreline inspection: J. C. Lajoye	11/18/47 to 11/21/47
Interior Field Inspection & Geographic Names: J. H. Winniford	7/2/47 to 7/16/47

Form T-1

DATA RECORD

T- 8859

Quadrangle (II): Bissell, Washington (USE)
Marcus, Washington (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: 28 April, 1948

Reported to Nautical Chart Section: 5 May 1948

Reviewed: 11 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) 1288.51' USC&GS, 1929

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

Lat.: 47° 49' 26.227" (810.0m) Long.: 117° 54' 41.229" (857.6m) Adjusted x
Unadjusted

State Plane Coordinates (VI): Washington, North Zone

X = 2,717,622.33 Y = 314,175.95

Military Grid Zone (VI)

M-2467-12(3)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Water level
9 lens				
17413 to 17418 Inc.	8/22/46	10:40 PST	1:10000	1289.6 above M. S. L.
17467 to 17469 Inc.	8/22/46	11:47 PST	1:10000	1289.6 above M. S. L.
U. S. Army Single Lens				
347W-5M253	7/18/45	unknown	1:36000	Unknown
348W-5M253	7/18/45	unknown	1:36000	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: August 1947

" " " checked by: Washington Office date: August 1947

Control plotted by: J. L. Harris date: Jan. 16, 1948

Control checked by: Ree H. Barron date: Jan. 16, 1948

Radial Plot by: J. L. Harris & J. E. Deal date: Jan. 30, 1948

Detailed by: Helen Letson date: Mar. 22, 1948

Reviewed in compilation office by: Ree H. Barron date: April 2, 1948

Elevations on Field Edit Sheet
checked by: None date:

940

STATISTICS (III)

Land Area (Sq. Statute Miles): 42.5 (Complete detail along shoreline)
(Skeleton detail interior)

Shoreline (More than 200 meters to opposite shore): 6.0 statute miles

Shoreline (Less than 200 meters to opposite shore): 7.5 statute miles
(measured along centerline of river)

Number of Recoverable Topographic Stations established: 1

Number of Temporary Hydrographic Stations located by radial plot: 45

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: 10/17/47 to 11/21/47
C. Hanavich, J. C. Lajoye, J. H. Winniford

Shoreline Inspection: 11/24/47 to 11/26/47
J. C. Lajoye

Interior field inspection and geographic names: 7/7/47 to 7/22/47
J. H. Winniford

9(3)

MAP T-8857 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)
CRYSTAL 1935 r. 1947	G-6760 USBR 1045	N. A. 1927	47 56 27.893"	861.5	(991.7)					Recovered not identified
			118 15 53.360"	1107.4	(137.8)					
MARBLE 1935 r. 1947	G-6760 USBR 1045	N. A. 1927	47 55 09.477"	292.7	(1560.5)					Used in radial plot
			118 15 35.336"	733.6	(512.1)					"
FURTH 1936 r. 1943	G-6761 USC&GS 1087	"	47 54 37.899"	1170.5	(682.6)					
			118 13 55.229"	1146.9	(99.1)					"
BLUE USBR 1935 r. 1947	G-6760 USBR 1046	"	47 53 38.753"	1196.9	(656.2)					
			118 08 46.144"	958.5	(287.8)					"
TABLE USBR 1935 r. 1947	G-6760 USBR 1046	"	47 57 00.633"	19.6	(1833.6)					
			118 12 28.285"	586.9	(658.1)					"
MOUND USBR 1935 r. 1947	G-6760 USBR 1046	"	47 56 03.717"	114.8	(1738.4)					
			118 11 06.582"	136.6	(1108.8)					"
CP SRS 11 (373+98.32) 1935 r. 1947	Field Comp. 21	"	353,000.84	914.7	(609.3)	meters				
			2,642,271.10	692.2	(831.8)					
CP 9 SRS (299+16.99) 1935 r. 1947	"	"	352,722.51	829.8	(694.2)					Recovered not identified
			2,635,136.09	41.5	(1482.5)					"
CP 13 SRS (472+67.15) 1935 r. 1947	"	"	344,968.90	1514.5	(9.5)	20 grid				
			2,647,539.32	774.0	(750.0)					"
CP 14 A SRN (438+35.01) 1935 r. 1947	"	"	353,154.84	961.6	(562.4)					
			2,647,933.51	894.1	(629.9)					"
CP 18 SRN AP 62 1935 r. 1947	"	"	343,673.54	1119.7	(404.3)					
			2,652,085.77	635.7	(888.3)					"
CP SRN 8 (193+66.24) 1935 no r.	"	"	351,978.28	603.0	(921.0)					No report, plotted at request of hydro party
			2,629,055.30	1236.1	(287.9)					

1944 (GTZ) G-7380 (Library Archives) 1947

1 FT. = .3048006 METER

COMPUTED BY: F.H.Elrod&J.L.Harris DATE 1/5/48 CHECKED BY: J.E.Deal DATE 1/6/48

M-2388-12

MAP T-8857 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 SRN 10 (255+83.32) 1935 no r.	21 Field Comp.	N. A. 1927	355,527.33	160.7	(1363.3)				No report, plotted at request of hydro party	
			2,632,961.64	902.7	(621.3)					
CP SRN 12 (329+31.41) 1935 no r.	"	"	356,892.95	577.0	(947.0)				"	
			2,639,026.92	1227.4	(296.6)					
CP SRN 14 (389+53.30) 1935 no r.	"	"	356,161.19	353.9	(1170.1)				"	
			2,644,804.42	1464.4	(59.6)					
CP SRN 16 Nr AP 16 1935 no r.	"	"	349,531.19	1381.1	(142.9)				"	
			2,648,710.30	1130.9	(393.1)					
CP SRN 20 AP 139 1935 no r.	"	"	338,903.35	1189.7	(334.3)				"	
			2,656,602.39	488.4	(1035.6)					
CP SRS 7 (225+61.17) 1935 no r.	"	"	349,767.24	1453.1	(70.9)				"	
			2,629,156.97	1267.0	(257.0)					
CR SRS 15 (549+68.88) 1935 no r.	"	"	339,116.76	1254.8	(269.2)				"	
			2,651,233.72	376.0	(1148.0)					

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY F.H.Elrod&J.L.Harris DATE 1/5/48 CHECKED BY J.E.Deal DATE 1/6/48

MAP T- 8858 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)
OLESON	G-6760	N. A.	47 48 34.744"	1073.1	(780.0)				Used in radial	
1935 r. 1947	USBR 1047	1927	118 05 45.502"	946.7	(301.6)				plot	
CROW	"	"	47 50 02.487"	76.8	(1776.3)				"	
1935 r. 1947			118 08 32.399"	673.8	(574.0)					
POINT, SS	G-6760	"	47 49 49.732"	1536.0	(317.1)				"	
1935 r. 1947	USBR 1070		118 06 31.571"	656.6	(591.3)					
RIDGE	G-6760	"	47 49 50.627"	1563.6	(289.5)				"	
1935 r. 1947	USBR 1047		118 05 04.367"	90.8	(1157.1)					
BURN	"	"	47 52 36.868	1138.7	(714.4)				"	
1935 r. 1947			118 09 50.024"	1039.5	(207.3)					
CP SRS 21			327,516.70	767.1	(756.9)				"	
729+71.20	Field	"	2,663,061.51	933.1	(590.9)					
1935 r. 1947	Comp.									
CP SRS 29	"	"	302,517.19	767.2	(756.8)				"	
1098+37.57			2,679,429.45	1350.1	(173.9)					
1935 r. 1947										
ROCK I.S.	G-6760	"	47 49 39.736	1227.2	(625.9)				Recovered not	
1935 r. 1947	USBR 1070		118 05 08.581	178.5	(1069.5)				identified	
CP SRS 23			317,660.23	810.8	(713.2)				"	
(838+22.42)	Field	"	2,665,824.18	251.2	(1272.8)					
1935 r. 1947	Comp.									
CP SRS 27	"	"	307,542.64	775.0	(749.0)				"	
(1011+58.17)			2,674,972.68	1515.7	(8.3)					
1935 r. 1947										
CP SRN 22	"	"	332,043.08	622.7	(901.3)				"	
(AP 219)			2,662,405.67	733.2	(790.8)					
1935 r. 1947										
CP SRN 24	"	"	318,376.17	1029.1	(494.9)				"	
(AP 301)			2,666,828.22	557.2	(966.8)					
1935 r. 1947										

944 672 1947 G-7880 Library of Archives

meters to grid →

1 FT. = .3048006 METER

COMPUTED BY: J. L. Harris DATE 1/8/48 CHECKED BY: F. H. Elrod DATE 1/9/48

M-2388-12

MAP T-8858 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 SRN 26 (AP 345) 1935 r.1947	Field Comp.	N. A. 1927	311,037.51	316.2	(1207.8)				Recovered not identified	
			2,673,351.44	1021.5	(502.5)					
CP SRS 17 (634+25.42 1935 no r.	"		333,172.45	967.0	(557.0)				no report, plotted at request of hydro party	
			2,656,183.37	360.7	(1163.3)					
CP SRS 19 (692+75.83) 1935 no r.	"	"	329,867.96	1483.8	(40.2)				"	
			2,660,279.52	85.2	(1438.8)					
CP SRS 25 (914+07.94) 1935 no r.	"	"	315,093.95	28.6	(1495.4)				"	
			2,669,180.44	1274.2	(249.8)					

1 FT. = .3048006 METER

COMPUTED BY: J. L. Harris DATE 1/8/48 CHECKED BY: F. H. Elrod DATE 1/9/48

M-2388-12

MAP T- 8859 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)
POWER 1935 r 1947	G-6760 USBR 1048	N. A. 1927	47 49 26.227	810.0	(1043.1)				Used in radial	
			117 54 41.229	857.6	(390.4)				plot.	
WELLPINIT 1935 r 1947	"	"	47 50 13.033	402.5	(1450.6)				"	
			117 57 14.032	291.8	(955.9)					
LITTLE FALLS EAST BASE 1935 r 1947	"	"	47 49 34.753	1073.3	(779.8)				"	
			117 56 12.597	262.0	(986.0)					
LITTLE FALLS WEST BASE 1935 r 1947	"	"	47 49 53.544	1653.7	(199.4)				"	
			117 57 28.943	602.0	(645.9)					
MONDOVI II SS 1935 r 1947	G-6760 USBR 1071	"	47 48 19.012	587.2	(1265.9)				"	
			117 59 52.841	1099.5	(149.0)					
SHALE I. S. 1935 r 1947	"	"	47 48 54.791	1692.2	(160.9)				"	
			118 01 07.026	146.2	(1102.1)					
I.S. PLANT 1935 r 1947	"	"	47 49 45.544	1406.6	(446.5)				"	
			117 54 38.256	795.6	(452.3)					
CP SRN 30 AP 433 1935 r. 1947	Field Comp.	"	307,375.10	723.9	(800.1)				Recovered not	
			2,693,408.27	1038.8	(485.2)				identified.	
CP SRS 31 (1241+24.18) 1935 r 1947	"	"	304,421.98	1347.8	(176.2)				"	
			2,689,632.70	1412.0	(112.0)					
CP SRS 33 (1332+28.46) 1935 r. 1947	"	"	310,778.70	237.3	(1286.7)				"	
			2,694,383.59	1336.1	(187.9)					
CP SRN 28 AP 392 1935 no r.	"	"	304,085.51	1245.3	(278.7)				No report, plotted	
			2,681,745.68	532.1	(991.9)				at request of hydro party	
CP SRN 32 AP 1935 no r.	"	"	314,007.52	1221.5	(302.5)				"	
			2,695,089.16	27.2	(1496.8)					

1 FT. = .3048006 METER

COMPUTED BY: J. L. Harris DATE 1/8/48 CHECKED BY: F. H. Elrod DATE 1/9/48

M-2388-12

MAP T-8859 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 + 34 1935 no r.	Field Comp.	N. A. 1927	316,165.39	355.2	(1168.8)				No report, plotted at request of hydro party	
			2,705,906.86	276.4	(1247.6)					
CP SRS 35 (1512+82.50 1935 no r.	"	"	314,419.21	1347.0	(177.0)				"	
			2,708,737.68	1139.2	(384.8)					

1 FT. = .3048006 METER

COMPUTED BY: J. L. Harris DATE 1/8/48 CHECKED BY: F. H. Elrod DATE 1/9/48

JKW

M-2388-12

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

1. Description of the Area:

The third radial plot consists of three shoreline surveys numbered 8857 to 8859 inclusive, and it includes the area of the Spokane River from near its mouth upstream to the dam at Little Falls, Wn.

The topography on the south side of the river is quite similar to that found on the south side of the Franklin D. Roosevelt Lake between Grand Coulee and the mouth of the Spokane River. It is a rolling plateau underlain by basalt formations. The plateau overlooks the Spokane River canyon from an elevation of 1200 to 1300 feet. At the lower elevations, island outcrops of granite are found. Sandy benchs of varying widths adjoin the river.

A broad sandy bench extends southeastward from the large bend in the river found in sheet 8857 to a point about 1.5 miles northwest of the large eastward meander at the junction of sheets 8858 and 8859. Along this east-west meander the plateau rises abruptly from the lake shore and is heavily incised by a lateral drainage pattern. On the south side of the river, the remainder of the area between this plateau and Little Falls, Wn., is characterized by sandy benchs found between the river and the plateau to the south.

On the north side of the river a rolling topography is found consisting of sandy plains with an underlying structure of granite or shale which have outcropped in places. A large granitic intrusion has been cut through by the Spokane River in the Twin Buttes area (at the river bend in 8857) and steeply incised canyon walls are the result. Proceeding eastward the granitic terrain yields to a wide sandy bench which continues to the south limits of sheet 8857. This bench gives way to a rolling plateau, which rises steeply in many places from the shore of the river, with rock bluffs composed of granite or shale which are interrupted occasionally by sandy embankments. This terrain extends through 8858 and the west half of sheet 8859 except for a narrow elevated sand bench (Wyncoop Flats) found south of Cayuse Mountain. A large flat sandy bench marks the remainder of the area in sheet 8859.

The greater part of the area is covered with softwoods of varying density, and grasslands. The Spokane Indian Reservation extends along the entire north side of the Spokane River . Logging and grazing of cattle are the chief enterprises. A few scattered mining operations are found on the south side of the river as well as logging, cattle grazing and farming. The topography of the area as a whole is not conducive to the development of an agricultural economy.

The road system is very poorly developed. A graded and drained road provides access to the river from the south side at Laughbons Landing.

North of the river a graded and drained road leading south and then east from State Highway 22 just south of sheet 8861 cuts through sheet 8857 where it leaves the area and re-enters in sheet 8859 between Wellpinit and Little Falls. Aside from these two main roads, there are a few scattered roads (logging or dirt roads) that provide access to the river.

Little Falls, Wn., which is associated with a hydro-electric plant, is a small and only town in this radial plot area.

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 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, Project PH-2 (45)".

3. Interpretation of the Photographs:

Shale outcrops, which weather more readily than granite or basalt, give a gentle rounded appearance of mottled tones; the vegetal covering is usually grass in an area underlain by shale and for a typical example of such an area refer to the field photographs in the vicinity of Cayuse Mountain.

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

9. Wharves and Shoreline Structure:

There were no wharves or shoreline structures in the area covered by this report.

10. Details Offshore from the Shoreline Plane of Reference:

In areas where the shoreline is rocky, submerged rocks and ledges are suspected. Any rocks found awash or bare have been noted on the photographs, and the height of rocks that bare above the plane of reference has been indicated. The approximate limits of shoal areas have been shown; they are found usually where the benchs adjoin the lake or river.

A large prominent sand bar was found in the middle of the Spokane River near the junction line of sheets 8858 and 8859. A submereged rock was located, also, in the river about 1 mile downstream from the dam at Little Falls.

11. Landmarks and Aids to Navigation:

What few prominent and less prominent landmarks were found were recommended for future charting. There are no aids to navigation in the river.

12. Hydographic 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 steep wooded banks were encountered, no photo hydro stations were established since no definite detail was identifiable on the photographs. One such area was found along the south bank of the river near Little Falls, Wn. photo hydro stations were designated and described briefly on the field photographs, and also listed in sketchbook volume 8.

13. Landing Fields and Aeronautical Aids:

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

14. Road Classification:

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

15. Bidges and Cable Crossings:

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

16. Buildings and Structures:

A complete field investigation was made for 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:

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

21. Field Photographs:

Idem

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:
J. T. Jarman,
Chief of Party

Respectfully submitted:
Charles Hanavich
Charles Hanavich,
Topographic Engineer

COMPILATION REPORT
Map Manuscripts T-8857 to T-8859 Inclusive
Area of the 3rd 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.

8857 - 6
8858 - 7
8859 - 7
20

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-8857 to T-8859 inclusive, were combined into one radial plot known as Radial Plot No. 3, 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 First 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.

In the area of T-8859, the nine lens photograph coverage was not sufficient to accurately compile the planimetric details, especially at several points along the shoreline of the Spokane River, between Long. 117° 54' and Long. 117° 58'. In this area, the angle of intersection of the radials was so small that many planimetric pass points and photo hydrographic signals could not be located accurately. Investigation disclosed that the U. S. Engineer District Office at Portland had prints of single lens photographs of this area, flown on July 18, 1945, at a scale of 1:36000. Two of these prints were obtained numbered as follows:

347 W	16P1	M 1	16 P S	18 July 1945	5 M	253
348 W	16P1	M 1	16 P S	18 July 1945	5 M	253

By use of the vertical projector central portions of these prints were enlarged and radials were obtained which contributed to the accurate location of pass points, etc.. Because of errors usually found when an enlargement is made with the vertical projector, the planimetry and photo hydrographic signals in this part of the river, which is very narrow, are questionable. They are believed to be of sufficient accuracy for use during the hydrographic survey. This office has been requested to return the two single lens prints, previously listed, to the U. S. Engineer Office in Portland. Should the Washington Office desire prints of these two photographs they may be secured from negatives on file at the office of the "Chief of Staff, U. S. Air Force, Washington 25, D. C.

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 will be forwarded with the map manuscripts, was used to supplement the photographs:

Black and White Print:----Spokane Indian Reservation, Washington
Scale:---1"= 1 mile

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

Black and White Print---Existing & 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 has been submitted.

The above field inspection report indicates that the water level of the Spokane River area of the Franklin D. Roosevelt Lake is 1290.0 ft. above M.S.L.. This is probably true for all water areas falling in T-8857 and in most of T-8858. There is however, a definite current in the Spokane River from the dam at Little Falls to a point about 7.0 miles downstream. By comparing the map manuscripts with maps that were compiled before the Coulee Dam was built, it can be seen that little additional water has been impounded in this area. It is suggested that the hydrographic party investigate the above facts and determine if there is a gradient in the Spokane River between the dam at Little Falls and a point several miles downstream.

See Review Report.

The mean high-waterline (Lake shoreline at the adopted plane of reference) is shown by a continuous black acid ink line, .008" in thickness. 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:

Refer to Paragraph 10 of the Field Inspection Report.

* 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).

33. Wharves and Shoreline Structures:

There were no wharves or shoreline structures in the area covered by this report.

34. Landmarks and Aids to Navigation:

Form 567, recommending the charting as landmarks of the following objects, is attached.

CHURCH (West Gable)	T-8857
STACK	T-8859

There are no fixed aids to navigation in this part of the river.

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
8857	64	3	61
8858	49	3	46
8859	46	1	45

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 satisfactory positions. (The field party could not determine this point with alternate photographs.) Because of poor photograph placement or coverage, angles of intersection of the radials were often so small that the actual positions of photo hydro stations were questionable. It was also necessary to prick many signals on photographs where the banks were not displaced away from the water line and principal point. Because of these facts the photo hydro signals, in the area of these three map manuscripts, should not be considered as accurate as those which have been established over the remainder of this project. They are, however, believed to be of sufficient accuracy for use during the hydrographic survey. Refer to remarks, contained in this descriptive report, Item 28 "Detailing", concerning photo hydro stations in the area of T-8859.

A list of the photo hydrographic 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 8849 to 8859 inclusive, Project Ph-2(45)," which was submitted to the Washington Office by the field party. List of approved names attached to this Desc' Rep't.

38. Recoverable Topographic Stations:

Copies of Form 524 are being submitted for the two stations listed under Item 34 "Landmarks and Aids to Navigation. In addition Form 524 is being submitted for station "GAB, 1947". Forms 524 filed in Div. of Photogr. General Files.

39. Junctions:

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

40. F. D. Roosevelt Lake Reservation Line:

Please refer to Item 40 in the Descriptive Report for the 1st Radial Plot, Project Ph-2(45).

44. Comparisons with Existing Topographic Surveys:

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

45. Comparisons with Nautical Charts:

There are no nautical charts of the area.

Respectfully submitted,

J. Edward Deal Jr.

J. Edward Deal Jr.
Photogrammetric Engineer

Approved after additional comments were added:

Robert A. Earle

Robert A. Earle
Chief of Party

jr

Form 567
Rev. March 1935

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

Project Ph-2(45)
Area of 3rd Radial Plot
T-8857 to T-8859 Inc.

LANDMARKS FOR CHARTS

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

Coulee Dam, Washington — October, 1947

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

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

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

GENERAL LOCALITY: Spokane River

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-8857 CHURCH (West Gable)	47 56	(1338.7) 514.5	118 11	(912.8) 332.3	N.A. 1927	Radial Plot	1947		x		Area not charted
T-8859 STACK	47 49	(410.5) 1442.6	117 55	(1147.7) 100.4	N.A. 1927	Radial Plot	1947		x		Area not charted

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 89675

Hydrographic Signal Sites
3rd Radial Plot
Sheets 8857, 8858, 8859

5701	Southerly and easterly of 2 pines (not flagged)
5701A	White rag on bush
5701B	Red flag on pine
5702	Red signal clogh on tree on point
5703	Lone pine on sidehill
5704	Orange cloth on tree at log dump
5705	Orange signal cloth on pine
5706	Ball top pine near road
5707	White signal cloth on pine
5708	White signal cloth on tallest pine
5709	Red signal cloth on pine tree
5710	Red signal cloth on large pine
5711	Orange signal cloth on pine
5712	Orange signal cloth on pine in draw
5713	White cloth on small lone pine
5714	White signal cloth on pine
5715	Red signal cloth on pine
5716	Red signal cloth on small pine
5717	Orange signal cloth on pine
5718	Orange cloth on pine tree
5719	White cloth on pine
5720	White signal cloth on pine
5721	Red signal cloth on forked pine
5722	Red signal cloth on middle of 3 small pines

5723	Orange signal cloth on pine
5724	Orange signal cloth on north and east pine of 2
5725	D/S of double pine in draw
5726	White signal cloth on pine
5727	Lone pine (not flagged)
5728	Orange cloth on small pine
5729	SW corner of small shed
5730	Prominent pine on top of rock
5731	River gable of main portion of unpainted shack
5733	White signal cloth on pine
5734	Red signal cloth on fir
5735	Red signal cloth on pine
5736	Small bushy pine on offshore end of rock
5737	Orange cloth on pine
5739	U/S of 2 pines (not flagged)
5740	White signal cloth on pine
5741	White flag on stump of snag
5742	Dead top pine
5743	Red signal cloth on pine
5745	Orange signal cloth on pine
5746	Orange cloth on small pine
5747	Blazed pine, E side of draw
5748	White signal cloth on pine
5749	Large snag on rock slide
5750	NW gable of unpainted house
5751	Orange cloth on pine

5752	White signal cloth on pine near shack
5753	White signal cloth on pine
5755	Red signal cloth on tree
5757	Lone pine (not flagged)
5759	Lone pine S of forked pine
5761	Orange cloth on pine
5763	Orange cloth on pine
5765	Red cloth on pine
5767	White cloth on pine
5769	White signal cloth on pine
5771	White signal cloth on pine
5803	Large forked pine (not flagged)
5804	Red cloth on small pine
5805	Dead tree in water
5806	Orange cloth on pine
5807	Red signal cloth on pine
5809	Orange cloth on small pine
5810	Red signal cloth on forked pine
5811	White cloth on pine
5812	White signal cloth on smallest pine
5813	Red cloth on pine
5814	Red signal cloth on pine
5815	Blazed tree D/S of 2
5816	Orange cloth on dead fir
5817	Orange cloth on small pine
5819	White cloth on small pine

5820	Snag on slide
5821	Red cloth on pine
5822	Point of rock on HWL at clay bank
5823	Orange cloth on pine at HWL
5824	White signal cloth on pine
5825	White cloth on pine
5826	Red cloth on pine
5827	Red signal cloth on pine
5828	Base of lone pine on point
5829	White cloth on pine
5830	White signal cloth on pine
5831	Red signal cloth on pine
5832	Red cloth on small pine
5833	White cloth on pine
5834	Orange cloth on dead fork top pine
5836	White cloth on tall pine
5837	Dead tree
5838	Red cloth on D/S of double pine
5839	White cloth on pine
5840	Orange cloth on middle pine of 3
5841	Red cloth on pine tree
5842	Red signal cloth on small pine
5843	Orange cloth on large pine
5844	White cloth on small pine center of small clump
5845	White signal cloth on lone pine
5846	Orange cloth on pine in slide area

5847	Red signal cloth on tall pine
5849	Large lone pine on point
5851	Forked snag
5853	White signal cloth tied on bush on point
5855	Red cloth on pine
5901	White signal cloth on dec. bush
5902	Red cloth on small pine
5903	Red signal cloth on bush
5904	White cloth on pine
5905	Orange cloth on lone bush
5906	Orange cloth on dead pine
5907	White signal cloth on tall pine
5908	Red cloth on fir, 3 m from rock point
5909	D/S gable of barn
5909A	Red signal cloth on pine
5910	White cloth on pine
5911	White cloth on pine
5912	Orange cloth on small pine
5913	Small pine on fence
5914	Red signal cloth on small lone pine
5915	Bushy pine in draw
5917	Broken top snag
5918	Red cloth on spindly pine
5919	White cloth on pine
5920	White cloth on pine
5921	Lone schoolmarm pine

5922	Orange cloth on pine
5923	Red cloth on pine at side of road
5924	White signal cloth on pine
5925	Snag (not flagged)
5926	Red signal cloth on pine
5927	White cloth on pine
5928	Orange cloth on pine
5929	Red signal cloth on dead pine
5930	U/S gable of old house
5931	White cloth on pine
5932	Red cloth on small double pine
5933	Red signal cloth on pine
5935	White cloth on pine
5937	Red signal cloth on lone pine
5939	White cloth on pine
5941	Red signal cloth on pine
5943	Orange cloth on pine
5945	Lone small bushy pine on slide bank
5947	White cloth on pine
5949	Orange cloth on leaning pine
5951	White cloth on pine
5953	Dead snag
5955	Red cloth on pine
5957	Small pine on rocky point

GEOGRAPHIC NAMES

Survey No. T-8857

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
Lincoln County										2
Stevens County										3
Spokane Indian Reservation										4
State No. 22										5
Spokane River	Spokane R. begins at Little Falls. (Deleted from map.)									6
Franklin D. Roosevelt Lake.										7
Marble Flats										8
Twin Buttes										9
Blue Creek										10
Sand Creek										11
Ferguson Creek										12
Crizady Creek										13
Samuels	(District - not a fixed area of center of population)									14
Old Detillion Road	The spelling of this name varies; this is form recommended by C & G S party's names report.									15
McCoy Lake										16
										17
										18
	Names underlined in red are approved. 1/28/49 L. Heck.									19
										20
										21
										22
										23
										24
										25
										26
										27

M 234

GEOGRAPHIC NAMES

Survey No. T-8858

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
Lincoln County										2
Stevens County										3
Spokane Indian Reservation										4
Franklin D. Roosevelt Lake									USGB	5
Spokane River ✓		Spokane River Begins at Little Falls (Deleted from map)								6
State High No. 22										7
										8
Pitney Creek										9
Laughbons Landing										10
Sand Flats										11
Egypt		(district, rather than a fixed center of population)								12
North Star Grange Hall										13
Heartline Canyon										14
The Slide										15
Charlie Fleet Canyon										16
										17
Pitney Butte		Field Party's Names Report lists this as prominent, about 2/5 miles N. of Egypt district.								18
										19
										20
				Names underlined in red are approved. 2/2/49 L. Heck.						21
										22
										23
										24
										25
										26
										27

M 234

GEOGRAPHIC NAMES

Survey No. T-8859

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
Lincoln County										2
Stevens County										3
Spokane Indian Reservation										4
Franklin D. Roosevelt Lake									USGB	5
Squaw Canyon										6
Spring Creek										7
Little Falls		(town)								8
Spokane River		(above Little Falls)								9
Flett Creek										10
Wynecoop Flats										11
Cayuse Mountain										12
										13
										14
				Names underlined in red are approved. 2/11/49 L. Heck						15
										16
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										27

M 234

T-8857

The shoreline on T-8857 is subject to corrections as shown in red on H-7700 (1948-K-9). These corrections were transferred to H-7700 from graphic control survey LR-T-48 (field number) which was subsequently destroyed

IMZ 6-1-50

DIVISION OF PHOTOGRAMMETRY
Review Report of
Shoreline Map Manuscripts T-8857-T-8859
(area of the Third 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 triangulation 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 (form M-2388-12) is attached to the descriptive report.

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

T-8857	T-8858	
Joyce (USBR) 1935	Blaze (USBR) 1935	Cayuse (USBR) 1935
Blackie " "	Lost " "	Canyon " "
Detillian " "	Tubbs I.S." "	Chief " "
Big Spring " "	Slide I.S." "	Ledge " "
Huey " "	Slope I.S." "	Little Falls " "
Short " "		Spur I.S. " "
Pitney " "		Bench S.S. " "
Camp I.S. " "		Pit I.S. " "
		Sand S.S. " "
		Mondovi " 1934

The spelling of station Detillian has been retained as listed by Geodesy (G.P. p. 1046) although it is in disagreement with the spelling of the road name appearing on the same map, and with the bridge name and the triangulation station name appearing on Plate II of U.S.G.S. Water-Supply Paper 377, 1915.

28 Detailing

The maps meet the required accuracy with respect to shoreline after the changes noted below were made. The inland detail is, in general, good.

T-8857; Minor changes in shoreline
A road was entirely re-drawn in the southeastern portion of the map manuscript.
T-8858; Minor changes in shoreline
A road No. 7 was re-drawn to make it a road No. 6, in agreement with field inspection notes.

T-8859: The cliffs on the north side of the lake, opposite Squaw Canyon, are formed in tilted stratified sedimentary rocks, while those on the south side are formed in basaltic flows. The cliffs in the sedimentaries were re-delineated in order to show their distinctive character.

37 Geographic Names

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

The name "Spokane River" has been deleted from the map manuscripts, (except on the part lying west of Little Falls, T-8859), and the name "Franklin D. Roosevelt Lake" substituted.

Names added during review:

T-8858: Heartline Canyon
Charlie Fleet Canyon
The Slide

T-8859: Spring Creek

42 Supplemental Data

Plates II and III of U.S.G.S. Water-Supply Paper 377, 1915; 7 pp., 10 pl. Profile Surveys in Spokane River basin, Wash., and John Day River basin, Ore. R. B. Marshall, chief geographer.

These maps give the plan and 7 profiles of the Spokane River. They have contours, numerous river elevations, and a second-order triangulation net. By consulting the bank elevations on these maps and on the U.S.G.S. Wellpinit quadrangle made prior to the river impounding, and comparing them with the bank conditions on survey T-8859, it is possible to deduce an approximate position for the 1290' elevation ("Level of Lake") of the river after impounding. (A note to this effect has been placed on the map manuscript.) Though the water must have been raised at least 20 feet, the width of the river is little affected because of the steep side walls.

Plate III shows an island in the loop of the river at 47° 50' / 117° 59' (no elevation given), but it does not appear on the present map manuscript, and no indication of its presence is discernible on the photographs.

43 Comparison with Previous Topo and Present Hydro Surveys

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

4. Comparison with Existing Quadrangles

U.S.G.S.	Wellsinit	1/62,500	ed 1944
U.S.E.	Davenport	1/125,000	rep. 1939 (no contours)

The present survey supersedes the above surveys for shoreline and roads in their common areas.

Reviewed by:

Lena T. Stevens

Lena T. Stevens
T-8857, 28 Jan. 1949
T-8858, 2 Feb. 1949
T-8859, 11 Feb. 1949

Approved by:

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