

8870 8871  
8872

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

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric Air Photographic  
Shoreline T-8870 to  
Field No. PH-2(45) Office No. T-8872 incl.

LOCALITY

State Washington

General locality Franklin D. Roosevelt Lake

Locality From China Bend to the International Boundary

1946-'47

CHIEF OF PARTY

J.T.Jarman

LIBRARY & ARCHIVES

DATE January 3, 1950

B-1870-1 (1)

8870 8871  
8872

## DATA RECORD

T-8870

Quadrangle (II): Colville, Wash. (USGS)  
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

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

Completed survey received in office: 13 Aug. 1948

Reported to Nautical Chart Section: 20 Aug. 1948

Reviewed: 28 April, 1949 Applied to chart No.

Date:

Redrafting Completed: —

Registered: 10 Nov. 1949

Published:

Compilation Scale: 1:10,000

Published Scale:

Scale Factor (III): None

Geographic Datum (III): N.A. 1927

Datum Plane (III): Mean Sea Level USBR\*  
Normal pool elevation,  
1280' above  
1288.51 USCGS

Reference Station (III): DOME S.S. (USBR) 1937

Lat.: 48° 51' 37.015" (1143.4m) Long.: 117° 52' 20.956" (427.1m) Adjusted ✓  
Unadjusted

State Plane Coordinates (VI): Washington North Zone

X = 2,712,645.58'

Y = 692,320.20'

Military Grid Zone (VI)

\* U.S. Bureau of Reclamation  
(Grand Coulee)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Water level of lake</u> <u>Stage on 11/10/48</u>
9 lens				
17560 to 17564 inc.	8/22/46	14:08 P.S.T.	1:10,000	Gradient between 1290.0
17661 to 17665 inc.	8/27/46	10:24 P.S.T.	1:10,000	ft. above M.S.L. at China
				Bend to 1346.0 ft. above
				M.S.L. at International
				Boundary.

See Profile attached  
to Descriptive Report for  
Fifth Radial Plot. (T-883-65)

Tide from (III): None

Mean Range: None

Spring Range: None

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

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: January 1948

" " " checked by: Washington Office

date: January 1948

Control plotted by: James L. Harris

date: June 16, 1948

Control checked by: Frank Elrod

date: June 17, 1948

Radial Plot by: James L. Harris & J.E. Deal

date: July 1, 1948

Detailed by: Marie B. Elrod

date: July 29, 1948

Reviewed in compilation office by: Ree H. Barron

date: Aug. 3, 1948

*Map Manuscript*  
Elevations on ~~Field Edit Sheet~~  
checked by: none

date:

*9/17*

STATISTICS (III)

Land Area (Sq. Statute Miles): 15.0 (Complete detail along shoreling)  
(Skeleton detail interior)

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

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

Number of Recoverable Topographic Stations established: None

Number of Temporary Hydrographic Stations located by radial  
plot: 57

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. Lajoie, J. H. Winniford

Date  
9/26/47 to 12/5/47

Shoreline Inspection  
J. C. Lajoie, J.H. Winniford, R.W. Sherwood

10/9/47 to 10/13/47

Interior Field Inspection & Geographic Names  
J.H. Winniford

9/17/47 to 9/24/47

Recovery of Vertical Control  
C. Hanavich

8/4/47 to 10/15/47

9/21



## DATA RECORD

T-8871

Quadrangle (II): Colville, Wash. (U.S.G.S.)  
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

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

Completed survey received in office: 13 Aug. 1948

Reported to Nautical Chart Section: 20 Aug. 1948

Reviewed: 3 May, 1949

Applied to chart No.

Date:

Redrafting Completed: —

Registered: 10 Nov. 1949

Published:

Compilation Scale: 1:10,000

Published Scale:

Scale Factor (III): None

Geographic Datum (III): N.A. 1927

Datum Plane (III): Mean Sea Level, USBR.  
Normal pool elevation.  
1290' above  
1288.51 USC & G.S.

Reference Station (III): NORTHPORT (USBR) 1936

Lat.: 48° 54' 39.118" (1208.4m) Long.: 117° 46' 39.128" (796.7m) Adjusted ✓  
Unadjusted

State Plane Coordinates (VI): Washington North Zone

X = 2, 734, 755.12'

Y = 711, 655.42'

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Water level of lake</u> <u><del>Stage of tide</del></u>
nine lens				
17563 to 17566 Inc.	8/22/46	14:12 P.S.T.	1:10,000	Gradient between 1290.0 ft
17665 to 17669 Inc.	8/27/46	10:26 P.S.T.	1:10,000	above M.S.L. at China Bend
				to 1319.8 ft. above M.S.L.
				at International Boundary.
				See Profile attached to
				Descriptive Report for
				Fifth Radial Plot. (T-8863-65)

Tide from (III): None

Mean Range: None

Spring Range: None

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

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: January 1948

" " " checked by: Washington Office date: January 1948

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

Control checked by: Frank H. Elrod date: June 17, 1948

Radial Plot by: J.L. Harris & J.E. Deal date: July 1, 1948

Detailed by: R.A. Davidson & H.L. Laube date: Aug 5, 1948

Reviewed in compilation office by: Ree H. Barron date: Aug 6, 1948

*Map Manuscript*  
Elevations on ~~Field Edit Sheet~~  
checked by: None

date:

*4/11*

STATISTICS (III)

Land Area (Sq. Statute Miles): 12.0 (Complete detail along shorelines)  
(Skeleton detail interior)

Shoreline (More than 200 meters to opposite shore): 13.5 Statute miles

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

Number of Recoverable Topographic Stations established: 2

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:

	<u>Date</u>
Recovery of Horizontal Control C. Hanavich, J.C. Lajoie, J.H. Winniford	9/17/47 to 12/2/47
Shoreline Inspection J.C. Lajoie, J.H. Winniford, R.W. Sherwood	10/6/47 to 10/9/47
Interior field inspection and Geographic Names J.H. Winniford	9/11/47 to 9/17/47
Recovery of Vertical Control C. Hanavich	8/4/47 to 10/15/47

## DATA RECORD

T- 8872

Quadrangle (II): Colville, Wash. (USGS)  
(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

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

Completed survey received in office: 13 Aug. 1948

Reported to Nautical Chart Section: 20 Aug. 1948

Reviewed: 6 May, 1949 Applied to chart No. Date:

Redrafting Completed: ———

Registered: 10 Nov. 1949

Published:

Compilation Scale: 1:10,000

Published Scale:

Scale Factor (III): None

Geographic Datum (III): N.A. 1927

Datum Plane (III): Mean Sea Level, USBR -  
1288.51 USCGS

Reference Station (III): DRY (USBR) 1936

Lat.: 48° 58' 36.641" (1131.9m) Long.: 117° 39' 40.505" (823.7m) Adjusted ✓  
Unadjusted

State Plane Coordinates (VI): Washington North Zone

X = 2,761,707.65'

Y = 736,840.20'

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Water level of Lake</u> <u>Stage of Tide</u>
9 lens				
17567 to 17570 inc.	8/22/46	14:15 P.S.T.	1:10,000	Gradient between 1290.0 ft.
17665 to 17669 inc.	8/27/46	10:43 P.S.T.	1:10,000	above M.S.L. at China Bend
				to 1316.8 ft. above M.S.L.
				at International Boundary.
				See Profile attached to
				Descriptive Report for
				Fifth Radial Plot. (7-8863-65)

Tide from (III):

None

Mean Range:

None

Spring Range:

None

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

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: January 1948

" " " checked by: Washington Office date: January 1948

Control plotted by: James L. Harris date: June, 17, 1948

Control checked by: Frank H. Elrod date: June 18, 1948

Radial Plot by: James L. Harris & J.E. Deal date: July 1, 1948

Detailed by: Frank H. Elrod date: Aug. 3, 1948

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

Elevations on *Map manuscript* Field Edit Sheet

checked by: None

date:

*Q.E.D.*

STATISTICS (III)

Land Area (Sq. Statute Miles): 14.0 (Complete detail along shoreline)  
(Skeleton detail interior)

Shoreline (More than 200 meters to opposite shore): 16.5

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

Number of Recoverable Topographic Stations established: 2

Number of Temporary Hydrographic Stations located by radial  
plot: 64

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. Lajoie, J.H. Winniford

Date  
9/8/47 to 12/2/47

Shoreline Inspection

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

9/24/47 to 10/1/47

Interior field inspection and Geographic Names

J.H. Winniford

9/8/47 to 9/11/47

Recovery of Vertical Control

C. Hanavich

8/4/47 to 10/15/47

9/11/47

MAP T-8870

PROJECT NO. PH 2 (45)

SCALE OF MAP 1:10,000

SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $y$ -COORDINATE LONGITUDE OR $x$ -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
C.P. 208 (UL 7636+63.15) 1936	Field Comp P 19	N.A. 1927	686,546.26	471.3 (1052.7)			Not searched for. plotted at request of hydro party.
C.P. 210 (UL 7703+51.08) 1936	"	"	2,700,691.87	210.9 (1313.1)			"
C.P. 212 (UL 7744+21.75) 1936	"	"	690,200.05	61.0 (1463.0)			"
C.P. 263 (UR 7495+26.41) 1936	"	"	2,704,233.34	1290.3 (233.7)			"
PEPOON (USBR) 1936	G-6760 1060	"	692,009.80	612.6 (911.4)			
C.P. 265 (UR 9607+17.57) 1936	Field Comp P 19	"	2,707,241.62	683.2 (840.8)			
FLAG (USGS) (NEAR O'TOOLE, 1936)	G-6760 1060	"	689,480.36	1365.6 (158.4)			
CROWN (USBR) 1936	G-6760 1059	"	2,705,774.15	236.0 (1288.0)			
DEINY (USBR) 1936	G-6760 1058	"	48° 52' 41.200"	1272.7 (580.8)			Used in Radial Plot
ONION (USBR) 1936	G-6760 1060	"	117° 53' 16.084"	327.7 (894.8)			"
RUSS (USBR) 1936	G-6760 1060	"	695,760.68	231.9 (1292.1)			
SMITH (USBR) 1936	G-6760 1059	"	2,712,853.49	869.7 (654.3)			Not searched for.
			48° 48' 32.649"	1008.5 (844.9)			
			117° 52' 57.535"	1173.9 (50.3)			
			48° 51' 02.526"	78.0 (1775.4)			"
			117° 55' 34.305"	699.4 (523.8)			"
			48° 50' 07.008"	216.5 (1637.0)			"
			117° 56' 55.301"	1127.8 (95.8)			"
			48° 52' 02.687"	83.0 (1770.5)			"
			117° 49' 58.337"	1188.9 (33.9)			"
			48° 50' 54.477"	1682.8 (170.6)			"
			117° 52' 29.408"	599.6 (623.7)			"
			48° 49' 38.732"	1196.5 (657.0)			"
			117° 54' 11.576"	236.1 (987.7)			"

1 FT. = 3048006 METER

COMPUTED BY: F.H. Elrod

DATE 2/4/48

CHECKED BY: J.L. Harris

DATE 3/1/48

M-2388-12



MAP T-8870 PROJECT NO. PH2(45) SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\psi$ -COORDINATE LONGITUDE OR $x$ -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD (BACK)		FORWARD (BACK)	FORWARD (BACK)
MARBLE EAST BASE (USBR) 1936 r. 1947	G-6760 1059	N.A. 1927	48° 50' 50.682" 117° 53' 39.113"	1565.6 (287.8) 797.4 (425.8)		Used in Radial Plot	
DOMS S.S. (USBR) r. 1947 1937	G-6760	"	48° 51' 37.015" 117° 52' 20.956"	1143.4 (710.0) 427.1 (795.8)		"	
MARBLE WEST BASE (USBR) 1936 r. 1947	G-6760 1059	"	48° 50' 24.895" 117° 54' 34.746"	769.0 (1084.4) 708.5 (515.0)		"	
SWEDE PASS L.O. HOUSE (USBR) 1936 r. 1947	G-6760 1076	"	48° 47' 59.323" 117° 56' 16.133"	1832.5 (20.9) 329.2 (895.2)		"	
USGS BM "M 14" (USBR) 1936 r. 1947	Field Comp P 20	"	672.712.85 2,695,052.79	826.9 (697.1) 16.1 (1507.9)		Aeronaut. Aid.	
RYAN (USBR) 1936 r. 1947	G-6760 1059	"	48° 47' 59.542" 117° 56' 16.073"	1839.3 (14.1) 328.0 (896.4)		Recovered, Not Used in radial Plot	
G.P. 259 (UR 9363+46.23) 1936 r. 1947	Field Comp P 18	"	678,596.53 2,701,800.87	1096.2 (427.8) 548.9 (975.1)		Used in radial plot	
T.T. 3-M-1929 (USGS) r. 1947	From Recovery Card	"	48° 51' 21.81" 117° 53' 22.71"	673.7 (1179.7) 462.9 (760.2)		Recovered, Not Used in radial plot	
W.W.P. AP808 1936	Field Comp P 20	"	419,590.87 2,579,440.12	1299.3 (124.7) 1252.2 (170.7)		"	
G.P. 261=WWP776 (UR 9422+66.87) r. 1947	Field Comp P 19	"	684,404.15 2,701,489.13	1342.4 (181.6) 453.9 (1070.1)		"	
G.P. 206 (UL 7577+60.55) r. 1947	Field Comp P 18	"	680,887.25 2,699,636.04	270.5 (1283.9) 1330.2 (194.2)		(this position plots in the water) Station not shown on sheet	
G.P. 257 (UR 9307+60.12) r. 1947	"	"	675,172.08 2,698,428.49	1413.1 (110.9) 52.4 (1471.6)		"	
				1045.0 (479.0)			

1 FT. = 3048006 METER  
COMPUTED BY: F.H. Elrod  
DATE: 2/4/48  
CHECKED BY: J.L. Harris  
DATE: 3/1/48  
M-2388-12 9410







MAP T. 8871..... PROJECT NO. PH2 (45)..... SCALE OF MAP 1:10,000..... SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\nu$ -COORDINATE LONGITUDE OR $\pi$ -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
GORGE (USBR) 1936	G-6760 1060	N.A. 1927	48° 53' 25.403"	784.7 (1068.7)			Used in Radial Plot
SHEEP (USBR) 1936	G-6760 1061	"	48° 56' 23.097"	713.5 (1140.0)			"
NORTHPORT (USBR) 1936	G-6760 1060	"	48° 54' 39.118"	1208.4 (645.1)			"
SMEETTER S.S. (USBR) 1936	G-6760 1079	"	48° 55' 23.923"	739.0 (1114.5)			"
DALLIES R.M. I (USBR) 1936	Office Comp.	"	48° 53' 08.834"	272.9 (1580.5)			"
GAGE #9 (USBR) 1936	Field Comp P 20	"	706,209.82	368.8 (1155.2)			Recovered, not used in radial plot
C.P. 269 (UR 9846 97.69)	Field Comp P 19	"	2,726,200.57	365.9 (1158.1)			"
W.W.P. A.P. 796 1936	Field Comp P 20	"	706,358.19	414.0 (1110.0)			"
C.P. 218 (UL 7934+12.09) 1936	Field Comp P 19	"	2,726,369.57	417.4 (1106.6)			"
C.P. 271 (UR 9955+01.60) 1936	"	"	700,596.72	181.9 (1342.1)			"
C.P. 224 (UL 8120+02.83) 1936	"	"	2,721,505.74	458.9 (1065.1)			"
C.P. 222 (UL 8043+67.38) 1936	"	"	703,398.60	1035.9 (488.1)			Not searched for. Plotted at request of hydro party.
			2,719,919.90	1499.6 (24.4)			"
			713,509.22	1069.6 (454.4)			"
			2,731,979.52	603.4 (920.6)			"
			715,242.40	73.9 (1450.1)			"
			2,732,556.66	779.3 (744.7)			"
			710,428.18	130.5 (1393.5)			"
			2,726,922.40	585.9 (938.1)			"

1 FT. = 3048006 METER  
COMPUTED BY F.H. Elrod  
CHECKED BY J.L. Harris  
DATE 2/4/48  
DATE 3/2/48  
M. 2388-12



MAP T. 8871

PROJECT NO. PH 2(45)

SCALE OF MAP 1:10,000

SCALE FACTOR

[illegible]

COMPUTED BY: F.H. Elrod

DATE 2/4/48

CHECKED BY: J.L. Harris

DATE 3/2/48

Q. 10

MAP T. 8872

PROJECT NO. PH2 (45)

SCALE OF MAP 1:10,000

SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR U-COORDINATE LONGITUDE OR X-COORDINATE		DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
DRY (USBR)	G-6760 1061	N.A. 1927	48° 58'	36.641"	1131.9	(721.6)				Used in Radial	
1936 r. 1947											
MR. BOUNDARY MONUMENT #179	G-6760	"	117° 39'	40.505"	823.7	(396.5)				Plot	
(USBR) 1936 r. 1947	1062		49° 00'	01.490"	46.0	(1807.5)				"	
OMEGA (USBR)	G-6760	"	117° 39'	22.727"	461.9	(757.6)				"	
1936 r. 1947	1062		48° 59'	13.389"	413.6	(1439.9)				"	
NIGGER (USBR)	G-6760	"	117° 36'	22.170"	450.7	(769.1)				"	
1936 r. 1947	1061		48° 57'	55.228"	1706.0	(147.4)				"	
BOUNDARY WEST BASE (USBR)	G-6760	"	117° 44'	08.911"	181.2	(1039.2)				"	
1936 r. 1947	1061		48° 57'	53.091"	1640.0	(213.4)				"	
DEEP (USBR)	G-6760	"	117° 39'	50.800"	1033.3	(187.1)				"	
1936 r. 1947	1061		48° 56'	31.294"	966.7	(886.8)				"	
LAMB (USBR)	G-6760	"	117° 42'	41.119"	836.7	(384.2)				"	
1936 r. 1947	1061		48° 58'	15.614"	482.3	(1371.1)				"	
INTERNATIONAL BOUNDARY MONUMENT	Field Comp	"	117° 41'	31.907"	648.9	(571.4)				"	
1936 r. 1947	1061		745,922.40		281.1	(1242.9)				"	
BOUNDARY (USBR)	G-6760	"	2,769,683.61		1427.6	(96.4)				Recovered, not used in radial plot	
1936 r. 1947	1061		48° 58'	03.236"	100.0	(1753.5)				"	
G.P. 281 (R 10375+75.54)	Field Comp 20	"	117° 38'	38.984"	792.9	(427.5)				"	
1936 r. 1947	"		732,509.64		764.9	(759.1)				"	
W.W.P. AP 814	"	"	2,761,172.73		357.4	(1166.6)				"	
1936 r. 1947	"		723,686.08		1123.5	(400.5)				"	
U.S. CANADIAN B.M. # 180	G-6760 1062	"	2,750,201.81		61.5	(1462.5)				"	
(USBR) 1930 r. 1947	"		49° 00'	02.946"	91.0	(1762.5)				"	
1936 r. 1947	"		117° 38'	11.039"	224.4	(995.2)				"	

1 FT. = 3048006 METER

COMPUTED BY: F.H. Elrod

DATE 2/5/48

CHECKED BY: J.L. Harris

DATE 2/13/48

M7-308-12

J.H.H.

MAP T. 8872

PROJECT NO. PH2. (45)

SCALE OF MAP 1:10,000

SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\mu$ -COORDINATE LONGITUDE OR $x$ -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
C.P. 226 (UL 8196+00.59) 1936	Field Comp P 19	N.A. 1927	71974.76	1455.3 (68.7)			Not searched for Plotted at request of hydro party.
C.P. 230 (UL 8336+04.30) 1936	"	"	2,738,173.62	967.3 (556.7)			"
C.P. 232 (UL 8392+71.25) 1936	"	"	722,771.33	844.7 (679.3)			"
C.P. 234 (UL 8453+99.28) 1936	"	"	2,742,327.85	709.5 (814.5)			"
C.P. 236 (UL 8514+49.53) 1936	"	"	724,610.71	1405.3 (118.7)			"
C.P. 238 (UL 8566+38.84) 1936	"	"	2,746,830.64	558.0 (966.0)			"
C.P. 240 (UL 8644+43.69) 1936	"	"	727,717.86	828.4 (695.6)			"
C.P. 242 (UL 8719+15.89) 1936	"	"	2,752,040.07	621.8 (902.2)			"
C.P. 273 (UL 10063+63.61) 1936	Field Comp P 20	"	730,584.48	178.1 (1345.9)			"
C.P. 275 (UL 10147+28.21) 1936	"	"	2,757,218.78	676.3 (847.7)			"
C.P. 277 (UL 10245+71.74) 1936	"	"	733,650.37	1112.6 (411.4)			"
C.P. 279 (UL 10305+35.63) 1936	"	"	2,761,325.37	404.0 (1120.0)			"
			738,867.95	1179.0 (345.0)			"
			2,765,970.83	295.9 (1228.1)			"
			745,849.17	258.8 (1265.2)			"
			2,767,849.42	868.5 (655.5)			"
			719,996.63	1523.0 (1.0)			"
			2,739,022.54	1226.1 (297.9)			"
			721,792.81	546.4 (977.6)			"
			2,744,805.48	1464.7 (59.3)			"
			725,751.50	229.1 (1294.9)			"
			2,750,457.89	139.6 (1384.4)			"
			728,267.38	995.9 (528.1)			"
			2,755,743.49	226.6 (1297.4)			"

1 FT. = 3048006 METER

COMPUTED BY: F.H. Elrod

DATE 2/5/48

CHECKED BY: J.L. Harris

DATE 2/13/48

M-2388-12

8872

PROJECT NO. PH 2(45)

SCALE OF MAP  
1:10,000

SCALE FACTOR

None

[illegible]

1 FT = 3048006 METER

COMPUTED BY: J.L. Harris

DATE 2/13/48

CHECKED BY: F.L. Elrod

DATE 2/13/48

M-2390-12

FIELD INSPECTION REPORT  
Map Manuscripts T-8870 to T-8872 Inclusive  
Area of the 7th Radial Plot  
Project Ph-2 (45)

The field inspection report for the area of these three map manuscripts is part of a combined report for the fifth, sixth and seventh radial plots, sheets T-8863 to T-8872, inclusive. This report was attached to the descriptive report for map manuscripts T-8863 to T-8865 inclusive, which was forwarded to the Washington Office on 9 April 1948. *Filed in the Bureau Archives,*

*R. A. Earle*

R. A. Earle  
Lt. Comdr., USC&GS  
Chief of Party

From F.I. Report:

16. Bridges & Cable Crossings

T-8870

Power line crossing: Little Dalles

T-8871

Highway #22, Northport (condemned)

Power line "

T-8872

N. Overhead cable (bucket ferry), Boundary.

S. " " " "

COMPILATION REPORT  
Map Manuscripts T-8870 to T-8872 inclusive  
Area of the 7th Radial Plot  
Project Ph-2 (45)

26: CONTROL

T-8870 = 8  
T-8871 = 5  
T-8872 = 8

Twenty-one horizontal control stations were recovered and identified by the field parties for use in controlling the radial plot in the area of these three map manuscripts. All of the objects selected for substations 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 stations 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, No's. T-8870 to T-8872 inclusive, were combined into one radial plot known as "Radial Plot No. 7, 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" for map manuscripts T-8849 to T-8852 inclusive.

In accordance with instructions, contained in a letter from the Chief Division of Photogrammetry, dated 20 April 1948, calibration photograph No. 16664 was used to apply corrections to radial directions for nine lens photographs used in this radial plot.



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. Preliminary ozalid prints showing the shoreline and photo hydro signal sites were forwarded to the hydrographic party at Coulee Dam when this phase of the work was completed.

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.

Because of insufficient photograph coverage much of the interior areas could not be completed to the limits of the map manuscripts.



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 is being forwarded with the map manuscripts:

Black and White Print: ---Existing and relocated highways  
and railroads, scale 1"= 4 miles.

30: MEAN HIGH-WATER LINE: (Lake shoreline at the adopted plane  
of reference)

A complete discussion of this feature may be found in "Paragraph 7 of the "Field Inspection Report, Area of the Fifth, Sixth, and Seventh Radial Plots," which is attached to the Descriptive Report for map manuscripts T-8863 to T-8865, Project Ph-2 (45), (i.e., 5th Radial Plot), *& which includes a reservoir profile.*

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, on a gradient between 1290.0 ft. above Mean Sea Level at China Bend and 1310.0 ft. above Mean Sea Level at the International Boundary. *1301.0*

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:

Details offshore from the mean high-water line have been shown as indicated by the field inspection party. (Refer to Paragraph 10 of the Field Inspection Report.)

33: WHARVES AND SHORELINE STRUCTURES:

There are no wharves or shoreline structures in the area covered by these three map manuscripts.

34: LANDMARKS AND AIDS TO NAVIGATION:

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

STACK, Square (182 Ft. high) T-8871 -

STACK, Cylindrical (93 Ft. high) T-8871 -

TOWER, Concrete (U.S.G.S. Gaging Stations) T-8872 -

TOWER, Concrete (U.S.G.S. Gaging Station) International  
Boundary T-8872 -

There are no non-floating aids to navigation within the area of these three map manuscripts.

35: HYDROGRAPHIC CONTROL:

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

Sheet No.	Signals Pricked by Field Party	Signals Rejected	Photo Hydro Sig. Estab.
8870	57	6	51
8871	46	2	44
8872	64	10	54

In most cases, the signals selected by the field party could be identified on a majority of the photographs of the area involved. The identity of most of the signals, which were rejected, was too indefinite for accurate determination of position in the compilation office. 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 in this area. Form 567, recommending the charting of triangulation station SWEDE PASS LOOKOUT HOUSE, 1936, as an aeronautical aid, is attached.

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.

38: RECOVERABLE TOPOGRAPHIC STATIONS:

Copies of Form 524 are being submitted for all stations listed under items 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.

Approved by:

*Robert A. Earle*

Robert A. Earle  
Chief of Party

Respectfully submitted,

*J. Edward Deal Jr.*

J. Edward Deal, Jr.  
Photogrammetric Engineer

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

## LANDMARKS FOR CHARTS

AERONAUTICAL TYPE  
Coulee Dam, Washington  
Nov. 1934

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

The positions given have been checked after listing. *W. H. R.*

J. T. Jerman & R. A. Mario  
Chief of Bureau

**Chief of Party.**

[illegible]

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHART". 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.

1937

John Rice

*Chief of Party.*

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 69878

Hydrographic Signal Sites  
8870 - 8871 - 8872  
7th Radial Plot

7001	White on small pine
7002	White Sig. Cl. on lodge pole pine
7003	Downstream gable of small house
7004	Red Sig. Cl. on fir
7005	Red Cl. on small pine
7006	White Sig. Cl. on pine
7007	Yellow Cl. on waterside of 2 pines
7008	Red Cl. on pine
7009	Red Cl. on small pine
7010	White Sig. Cl. on tall pine
7011	Yellow on leaning fir
7012	Red Cl. on pine
7013	Red Cl. on lone fir
7014	Red Sig. Cl. on pine
7015	Yellow Cl. on small pine
7016	White Sig. Cl. on lone pine
7017	Red Cl. on small pine
7018	Red Cl. on pine
7019	Upstream gable of house
7020	White Sig. Cl. on pine
7021	Yellow Cl. on small pine
7022	Red Cl. on pine at top of sharp ridge
7023	Red Cl. on small pine
7024	White Cl. on tall pine
7025	Yellow Cl. on pine
7026	South gable of pumping house

Q. 411

7027 Red Cl. on pine  
7028 Red Cl. on tall pine  
7029 Yellow Cl. on pine  
7031 Downstream point of small rock island  
7032 Red Cl. on fir  
7033 Red Cl. on fir  
7034 White Cl. on fir at top of bank  
7035 Yellow Cl. on Tamarack  
7036 Red Sig. Cl. on pine  
7037 Red Cl. on tall pine  
7039 Yellow Cl. on small pine  
7042 Yellow Cl. on tamarack  
7043 Yellow Cl. on pine  
7044 Red Cl. on tall pine  
7045 White Cl. on small bushy pine  
7046 Yellow Cl. on tall pine  
7047 Red Cl. on Juniper bush  
7048 Red Cl. on lge pine  
7050 Yellow Cl. on tamarack  
7052 Red Cl. on small pine  
7054 Yellow Cl. on pine  
7056 Red Cl. on pine  
7058 Yellow Cl. on pine  
7064 Red Cl. on large pine  
7066 Upstream gable of sawmill shed  
7115 Red Cl. on cottonwood bush downstream of 2  
7117 White Cl. on large lone cottonwood  
7119 Red Cl. on small cottonwood

P. 11



7121 White Cl. on pine  
7122 Yellow Cl. on large bush  
7123 Red Cl. on tall pine  
7124 Upstream gable of large shed  
7125 White Cl. on tall pine  
7126 Red Cl. on Juniper  
7127 Red Banner on pine  
7128 Yellow on poplar  
7129 White banner on pine  
7130 Red Cl. on pine nearest water  
7132 White Cl. on cottonwood snag  
7133 S. gable large barn  
7134 Red on small poplar  
7135 N. end of long shed  
7136 N.E. end of bridge approach  
7137 White banner on dead snag  
7138 S. end 2nd bridge pier from E. side  
7139 Red banner on pine  
7140 N. Gable of Chevron warehouse  
7141 White banner on pine  
7142 W. Gable of house  
7143 N.W. end of bridge approach  
7144 N.W. Corner of Store  
7145 Upstream gable on barn  
7146 Flag-pole on U.S. Customs building  
7147 White Cl. on lone pine  
7148 Inshore tall stack on abandoned Smelter (now a top sta.)  
7149 Red Cl. on pine

94

7150 N. corner of brick foundation  
7151 Upriver gable of house  
7153 River side gable of small shed  
7154 White flag on cottonwood bush  
7155 White Cl. on poplar on rock  
7156 S.W. corner of R.R. trestle  
7157 Red Sig. Cl. on tall dead top tamarack  
7158 N.W. corner of R.R. trestle  
7159 Lone poplar on grassy flat, not flagged  
7160 Red banner on pine  
7161 Red Cl. on small pine  
7164 S.W. corner of R.R. trestle  
7166 N. corner of R.R. trestle  
7201 White Cl. on large pine  
7203 Red Sig. Cl. on small poplar  
7204 White banner on cottonwood tree  
7205 White Cl. on downstream end of group of poplars  
7208 Barn N. gable  
7210 White flag on small pine  
7211 Red Cl. on tall snag  
7212 Red flag on bush  
7213 White Cl. on bush at edge of a group of poplars  
7214 Red flag on bush  
7214A White flag on pole set at S. corner of small rock slide  
7215 Red Cl. on downstream end of small breakwater  
7216 Tripod on Station Deep  
7217 Red Sig. Cl. on bushy poplar  
7218 S.W. corner of house

- 7219 White Cl. on largest of 2 poplars
- 7220 White banner on poplar tree stream side of a group
- 7221 White sig. Cl. on poplar
- 7223 Red Sig. Cl. on poplar
- 7224 N. gable large barn
- 7225 White Sig. Cl. on tall pine
- 7226 W.W. Corner of small shed
- 7227 Red Sig. Cl. on pine
- 7230 White banner at base of bushy pine
- 7231 Red Cl. on tall pine
- 7232 Red banner at base of pine
- 7233 White Cl. on bushy tree
- 7235 Red Sig. Cl. on forked top pine
- 7236 Red banner at base of small bushy pine
- 7237 White Sig. Cl. on small pine
- 7239 Red Sig. Cl. on small pine
- 7240 Red Banner on large tamarack
- 7241 Lone pine on top of ridge not flagged
- 7242 White flag on bush, outer one of a group
- 7244 Red banner on tamarack
- 7246 White flag on bushy alder tree
- 7247 Red Cl. on small pine
- 7248 Red banner on poplar tree
- 7249 Yellow Sig. Cl. on tamarack, largest of 2
- 7250 White banner on poplar tree
- 7251 White flag on international boundry marker 180
- 7252 Juniper bush on rocky crest white flag
- 7254 White flag on juniper bush

*Red*

7256 H. shaped steel frame for ferry crossing  
7258 Bushy pine, white banner  
7260 Double bushy cottonwood, red banner  
7262 White rag on bush  
7264 S.W. Corner of R.R. trestle  
7266 N.W. Corner of R.R. trestle  
7268 Lone pine on bushy Slope, Red banner  
7270 White flag on bush  
7272 Lone pine at edge of fill, not flagged  
7274 Bushy cottonwood at edge of sandy fill  
7278 White flag on bush



# GEOGRAPHIC NAMES

Survey No. T-8870

GEOGRAPHIC NAMES		Survey No. T-8870									
Name on Survey	<div>On Chart No.</div> <div>On previous survey No.</div> <div>On U. S. quadrangle Maps</div> <div>From local information</div> <div>On local Maps</div> <div>P. O. Guide or Map</div> <div>Rand McNally Atlas</div> <div>U. S. Light List</div>										
	A	B	C	D	E	F	G	H	K		
<u>Washington</u>									USGB	1	
<u>Stevens County</u>										2	
<u>Franklin D. Roosevelt Lake</u>									USGB	3	
<u>State Highway No. 22</u>										4	
<u>Great Northern Railway</u>										5	
										6	
<u>O'Toole Mountain</u>										7	
<u>Swede Pass</u>										8	
<u>China Bend</u>										9	
<u>Marble</u>										10	
<u>Crown Creek</u>										11	
<u>Crown Creek Road</u>										12	
<u>Flat Creek Road</u>										13	
<u>Flat Creek School</u>										14	
<u>River Road</u>										15	
<u>Rattlesnake Creek</u>										16	
<u>Little Dalles</u>										17	
<u>Island Rock</u>										18	
<u>Onion Creek</u>										19	
<u>Onion Creek Road</u>										20	
<u>Kanes Siding</u>										21	
<u>Brodie Mountain</u>										22	
<u>Spokane Portland Cement Co. Plant.</u>										23	
										24	
										25	
										26	
										27	
										28	

Names underlined in red are approved. 4/28/49 L. Heck.

M 234

Names underlined in red are approved. 4/28/49 L. Heck.



# GEOGRAPHIC NAMES

Survey No. T-8871

GEOGRAPHIC NAMES											
Survey No. T-8871											
Name on Survey	On Chart No. On previous survey On U. S. quadrangle Maps From local information On local Maps P. O. Guide or Map Rand McNally Atlas U. S. Light List										
	A	B	C	D	E	F	G	H	K		
Washington									USGB	1	
Stevens County										2	
Franklin D. Roosevelt Lake									USGB	3	
State No. 22 , No. 22A										4	
Great Northern Railway										5	
										6	
Squaw Creek										7	
Northport										8	
<sup>orth</sup> <del>Newport</del> Grade and High School										9	
<del>Presbyterian Church</del>										10	
<del>U.S. Customhouse</del>										11	
<del>U.S. Immigration Office</del>										12	
Joslyn Road										13	
Smelter Rock										14	
Deadmans Eddy										15	
Sand Point										16	
Deep Creek										17	
<sup>boat</sup> <del>Steamer</del> Rock										18	
Sheep Creek										19	
Sheep Creek School										20	
										21	
Names underlined in red are approved										22	
5-4-49 L. Heck										23	
										24	
										25	
										26	
										27	

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# GEOGRAPHIC NAMES

Survey No. T-8872

GEOGRAPHIC NAMES											
Survey No. T-8872											
Name on Survey											
	A	B	C	D	E	F	G	H	K		
Washington									USGB	1	
Stevens County										2	
Franklin D. Roosevelt Lake									USGB	3	
State No. 22A										4	
Great Northern Railway										5	
										6	
Deep Creek										7	
Steamboat Rock										8	
Nigger Creek										9	
Seriver Creek										10	
Stroh Spur										11	
Tom Bush Creek										12	
Little Nigger Creek										13	
Boundary		(village)								14	
Mt. Mitchell		(name OK if it is to be shown)								15	
										16	
										17	
										18	
										19	
										20	
										21	
										22	
										23	
										24	
										25	
										26	
										27	

Names underlined in red are approved. 5-9-49. L. Heck.

Division of Photogrammetry  
Review Report of  
Shoreline Map Manuscripts T-8870-72  
(Area of the 7th Radial Plot Ph-2-45)

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

25 "Level of the Lake" (1290 ft. above MSL-USBR 1937 Datum)

The level of the water for the photographs in the 7th Radial Plot ranges from 1290 ft. above MSL at the southern part of T-8870 to 1301 ft. above MSL at the U.S. Canada Boundary (T-8872).

A note "Approximate limit of the 1290 ft. water-level (level of the Lake)" has been entered on the map manuscript T-8870.

26 Control:

Most of the horizontal control in this radial plot area consisted of triangulation stations of the Bureau of Reclamation. The Bureau of Reclamation stations were originally computed on the Grand Coulee Dam grid. These stations fall in two classes and were handled as follows:

All second-order triangulation stations of the Bureau of Reclamation were computed from the Grand Coulee Dam grid values to geographic positions on the North American 1927 Datum.

All third-order stations designated as C.P. stations (control point stations) were computed from Grand Coulee Dam grid values to Washington North Zone State Coordinate values.

No stations were added to the map manuscripts during review.

31 Low Water and Shoal Lines (T-8870)

At the northern end of China Bend a shallow line encloses a large area along the east side of the Reservoir. This seems to the reviewer to be contrary to the conditions which would result from a water-level rise in this area.

An examination of the hydrographic map for this area will indicate the true conditions. (See 43 below)

37 Geographic Names:

A separate list (compiled by the Geographic Names Section) for each map manuscript is attached to this Descriptive Report.  
Name added: Mt. Mitchell (T-8872)

41 Bridges and Cable Crossings: (T-8871)

1. Highway No. 22 at Northport (condemned and abandoned)
  - (a) 1941 Bridge List data: H.CL.=238 ft.; V.CL=38 ft. (HW)
  - (b) Field Inspection data: H.CL.=242.5 ft; V.CL=38.6 ft.  
(1289.6 USBR Datum)

This bridge appears to be intact, therefore the field inspection clearances were added to the map manuscript.



H-7692  
Islet shown on T-8870 in lat.  $48^{\circ}48.65'$ , long.  
 $117^{\circ}56.97'$ , is disproved on H-7692 (1948-49)

H-7691, See shoreline changes shown in  
red on H-7691 affecting sheets T-8870 + T-8871

H-7694 See shoreline changes in red on H-7694 affecting  
sheet T-8872

2. Highway No. 22, at Northport (new bridge; plans approved Sept. 11, 1946) is now under construction, but the work had not been started at the time of field inspection (summer, 1947) so that only a dashed line indicates the new location. A supplement (1948) to the 1941 Bridge List gives the clearances (H. CL - 224 ft; V. CL. - 75 ft. HW, Reservoir levels) for the new bridge. These figures have not been placed on the map manuscript.

The distance of the old bridge above the river mouth is given as 750 mi. in the 1941 Bridge List, but the Supplement (1948) gives 734.1 mi. above the river mouth for the new bridge though it will be farther up stream.

*Letter To US Engineers  
Nov. , 1949.*

L3 Comparison with Previous Surveys:

No earlier topographic survey by this Bureau has been made.

→ A hydrographic survey is in process.

L4 Comparison with Existing Quadrangles

U.S.G.S. Colville 1:125,000 1:125,000 ed. 1933, rep. 1943

(T-8871) Several large islands in the river between Squaw Creek and Northport, and south of Sand Point, on the quadrangle have been covered by the higher waters of the Reservoir, but no field note indicates that these former islands constitute a hazard to navigation.

An examination of the hydrographic map for this area will reveal the condition of the channel. (See 43 above)

The present survey supersedes the quadrangle for shoreline and for highways near the impounded water area in that portion of the quadrangle common to T-8870-72.

Reviewed by:

*Lena T. Stevens*

Lena T. Stevens

T-8870 28 April 1949

T-8871 3 May 1949

T-8872 9 May 1949

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applied to Chart 6169 - J.F.W. 2/3/53