8870 8871
8872

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

Field No. PH-2(45) *Office No.* T-8870 to 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)

Form T-1

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, 1290' above 1288.51 USC&GS)

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)

M-2467-12(3)

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

PHOTOGRAPHS (III)

Number	Date	Time	Scale	~~Stage of Tide~~ Water level of lake
9 lens				
17560 to 17566 inc.	8/22/46	14:08 P.S.T.	1:10,000	Gradient between 1290.0 ft. above M.S.L. at China Bend to 1310.0 ft. above M.S.L. at International Boundary.
17661 to 17665 inc.	8/27/46	10:24 P.S.T.	1:10,000	

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 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:**

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:

	Date
Recovery of Horizontal Control C. Hanavich, J.C. Lajoye, J. H. Winniford	9/26/47 to 12/5/47
Shoreline Inspection J. C. Lajoye, 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

Form T-1

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):** Normal pool elevation, 1290' above Mean Sea Level, USBR., 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 = 2,734,705.12' Y = 711,635.42'

Military Grid Zone (VI)

M-2467-12 (3)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Water level of lake ~~Stage of Tide~~
nine lens				
17563 to 17566 Inc.	8/22/46	14:12 P.S.T.	1:10,000	Gradient between 1290.0 ft above M.S.L. at China Bend to 1310.6 ft. above M.S.L. at International Boundary. See Profile attached to Descriptive Report for Fifth Radial Plot. (T-8863-65)
17665 to 17669 Inc.	8/27/46	10:26 P.S.T.	1:10,000	

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:**

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:

	Date
Recovery of Horizontal Control C. Hanavich, J.C. Lajoye, J.H. Winniford	9/17/47 to 12/2/47
Shoreline Inspection J.C. Lajoye, 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

Form T-1

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 USC&GS (Normal pool elevation 1290' above)

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)

M-2467-12(3)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Water level of Lake ~~Stage of Tide~~
9 lens				
17567 to 17570 inc.	8/22/46	14:15 P.S.T.	1:10,000	Gradient between 1290.0 ft. above M.S.L. at China Bend to 1~~310.0~~ 2949 ft. above M.S.L. at International Boundary. See Profile attached to Descriptive Report for Fifth Radial Plot (T-8863-65)
17665 to 17669 inc.	8/27/46	10:43 P.S.T.	1:10,000	

17566 to 17670 Inc

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 ~~Field Edit Sheet~~ Map Manuscript
checked by: None **date:**

9-4-48

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:

	Date
Recovery of Horizontal Control C. Hanavich, J.C. Lajoye, J.H. Winniford	9/8/47 to 12/2/47
Shoreline Inspection J.C. Lajoye, 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

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 FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
C.P. 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	
			2,700,691.87	210.9	(1313.1)				of hydro party.	
C.P. 210 (UL 7703+51.08) 1936	"	"	690,200.05	61.0	(1463.0)				"	
			2,704,233.34	1290.3	(233.7)					
C.P. 212 (UL 7744+21.75) 1936	"	"	692,009.80	612.6	(911.4)				"	
			2,707,241.62	683.2	(840.8)					
C.P. 263 (UR 7495+26.41) 1936	"	"	689,480.36	1365.6	(158.4)				"	
			2,705,774.15	236.0	(1288.0)					
PEPOON (USBR) 1936 c.1947	G-6760 1060	"	48° 52' 41.200"	1272.7	(580.8)				Used in Radial Plot	
			117° 53' 16.084"	327.7	(894.8)					
C.P. 265 (UR 9607+17.57) 1936 r.1947	Field Comp 19	"	695,760.68	231.9	(1292.1)				"	
			2,712,853.49	869.7	(654.3)					
FLAG (USGS) (NEAR O'TOOLE, C&GS) 1936	G-6760 1076	"	48° 48' 32.649"	1008.5	(844.9)				Not searched for.	
			117° 52' 57.535"	1173.9	(50.3)					
CROWN (USBR) 1936	G-6760 1059	"	48° 51' 02.526"	78.0	(1775.4)				"	
			117° 55' 34.305"	699.4	(523.8)					
DENNY (USBR) 1936	G-6760 1058	"	48° 50' 07.008"	216.5	(1637.0)				"	
			117° 56' 55.301"	1127.8	(95.8)					
ONION (USBR) 1936	G-6760 1060	"	48° 52' 02.687"	83.0	(1770.5)				"	
			117° 49' 58.337"	1188.9	(33.9)					
RUSS (USBR) 1936	G-6760 1060	"	48° 50' 54.477"	1682.8	(170.6)				"	
			117° 52' 29.408"	599.6	(623.7)					
SMITH (USBR) 1936	G-6760 1059	"	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 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)
MARBLE EAST BASE (USBR) r.1947 1936	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
DOME 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)		Aeronaut. Aid.	"
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)			"
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
C.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~~	~~"~~	~~719,590.87~~ ~~2,739,440.12~~	~~1399.3 (124.7)~~ ~~1353.3 (170.7)~~		on T-8871	"
C.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)			"
C.P. 206 (UL 7577+60.55) r. 1947	Field Comp P 18	"	680,887.25 2,699,~~636~~ 363.04	~~270.3~~ 1203.9 (~~1253.6~~) ~~270.4~~ 1330.2 (194.2) ~~1413.1~~ (~~110.9~~)		(This position plots in the water) Station not shown on sheet	"
C.P. 257 (UR 9307+60.12) r.1947	"	"	675,172.08 2,698,428.49	52.4 (1471.6) 1045.0 (479.0)			"

Meters to grid

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 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)
O'TOOLE(USC&GS)	G-185	N.A.	48° 48' 32.364"	999.7 (853.7)			Not searched for.
1925	31	1927"	117° 52' 58.201"	1187.5 (23 .5)			"
ANSALDO (USBR)	G-6760	"	48° 52' 37.954"	1172.4 (681.0)			
1936	1059		117° 55' 13.449"	274.0 (948.5)			"
CON (USBR)	G-6760	"	48° 52' 47.002"	1451.9 (401.5)			
1936	1060		117° 49' 11.426"	232.8 (989.7)			
~~C.P. 265~~	~~Field~~	"	~~695,760.68~~	~~231.9 (1292.1)~~		listed on p.l.	~~Not searched for~~ ~~Plotted at request of hydro party~~
~~(UR 9607+17.57)~~	~~Comp~~		~~2,712,853.49~~	~~869.7 (654.3)~~			
~~1936~~	~~P 19~~						
C.P. 267	"	"	699,435.57	1352.0 (172.0)			Recovered not used in radial plot
(UR 9751+06.81)			2,720,562.88	171.6 (1352.4)			
C.P. 216	"	"	697,998.84	914.0 (610.0)			Not searched for. Plotted at request of Hydro party
(UL 7861+96.51			2,716,125.63	343.1 (1180.9)			
1936							"
C.P. 214	"	"	696,579.48	481.4 (1042.6)			
(UL 7809+61.96)			2,711,269.51	386.9 (1137.1)			
1936							
			700,596.72	181.9 (1342.4)			"
WWP AP#796, 1936			2,721,505.74	459.0 (1065.3)			

meters to grid

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

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
GORGE (USBR) 1936	G-6760	N.A. 1927	48° 53' 25.403"	784.7	(1068.7)				Used in Radial	
	1060		117° 48' 25.154"	512.4	(709.8)				Plot	
SHEEP (USBR) 1936	G-6760	"	48° 56' 23.097"	713.5	(1140.0)				"	
	1061		117° 47' 38.426"	782.0	(439.0)					
NORTHPORT (USBR) 1936	G-6760	"	48° 54' 39.118 "	1208.4	(645.1)				"	
	1060		1170 46' 39.128"	796.7	(425.0)					
SMELTER S.S. (USBR) 1936	G-6760	"	48° 55' 23.923"	739.0	(1114.5)				"	
	1079		117° 45' 35.252"	717.6	(503.8)					
DALLES R.M. I (USBR) 1936	Office Comp.	"	48° 53' 08.834"	272.9	(1580.5)				"	
			117° 50' 54.337"	1107.0	(115.4)					
GAGE #9 (USBR) 1936	Field Comp P 20	"	706,209.82	368.8	(1155.2)	meters to grid			Recovered, not used in radial	
			2,726,200.57	365.9	(1158.1)				plot	
C.P. 269 (UR 9846 97.69)	Field Comp P 19	"	706,358.19	414.0	(1110.0)				"	
			2,726,369.57	417.4	(1106.6)					
W.W.P. A.P. 796 1936	Field Comp P 20	"	700,596.72	181.9	(1342.1)		on T-8870		"	
			2,721,505.74	458.9	(1065.1)					
C.P. 218 (UL 7934+12.09) 1936	Field Comp P 19	"	703,398.60	1035.9	(488.1)				Not searched for. Plotted at request	
			2,719,919.90	1499.6	(24.4)				of hydro party.	
C.P. 271 UR 9955+01.60) 1936	"	"	713,509.22	1069.6	(454.4)				"	
			2,731,979.52	603.4	(920.6)					
C.P. 224 (UL 8120+02.83) 1936	"	"	715,242.40	73.9	(1450.1)				"	
			2,732,556.66	779.3	(744.7)					
C.P. 222 (UL 8043+67.38) 1936	"	"	710,428.18	130.5	(1393.5)				"	
			2,726,922.40	585.9	(938.1)					

G-7380 Library & Archives 1947 GTZ

1 FT. = .3048006 METER

COMPUTED BY: F.H. Elrod DATE 2/4/48 CHECKED BY: J.L. Harris DATE 3/2/48

M-2388-12

MAP T- 8871 PROJECT NO. PH 2(45) SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
C.P. 220 (UL 7981+89.96) 1936	Field Comp P 19	N.A. 1927	705,918.20	279.9	(1244.1)				Not searched for. Plotted at request of hydro party.	
			2,723,529.80	1075.9	(448.1)					
C.P. 228 (UL 8272+94.64) 1936	"	"	723,227.46	983.7	(540.3)				"	
			2,736,456.45	443.9	(1080.1)					
C.P. 226 (UL 8196+00.59) 1936	"	"	719,774.76	1455.3	(68.7)				"	
			2,738,173.62	967.3	(556.7)					
C.P. 273 (UR 10063+63.61) 1936	"	"	719,996.63	1523.0	(01.0)				"	
			2,739,022.54	1226.1	(297.9)					
BAR (USBR) 1936	G-6760 1060	"	48° 54' 19.076"	589.3	(1264.2)				Not searched for.	
			117° 49' 31.671"	645.0	(576.9)					
FLAGSTAFF (USBR) 1936	G-6760 1062	"	48° 54' 31.029"	958.5	(894.9)				Not searched for.	
			117° 52' 03.406"	69.4	(1152.4)					
B.M.(U.S.&C.B.S.) (USBR) (NEAR FLAGSTAFF) 1936	G-6760 1079	"	48° 54' 31.072"	959.8	(893.6)				Not searched for.	
			117° 52' 03.400"	69.2	(1152.5)					
W.W.P. AP 808 1936	Field Comp P 20	"	719,590.87	1399.3	(124.7)				Recovered, Not used in radial Plot	
			2,739,440.12	1353.3	(170.7)					

1 FT. = .3048006 METER

COMPUTED BY: F.H. Elrod DATE 2/4/48 CHECKED BY: J.L. Harris DATE 3/2/48

M-2388-12

MAP T-8872 PROJECT NO. PH2 (45) SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
DRY (USBR)	G6760	N.A.	48° 58' 36.641"	1131.9	(721.6)				Used in Radial	
1936 r.1947	1061	1927	117° 39' 40.505"	823.7	(396.5)				Plot	
NR. BOUNDRY MONUMENT #179	G-6760	"	49° 00' 01.490"	46.0	(1807.5)				"	
(USBR) 1936 r.1947	1062		117° 39' 22.727"	461.9	(757.6)					
OMEGA (USBR)	G-6760	"	48° 59' 13.389"	413.6	(1439.9)				"	
1936 r.1947	1062		117° 36' 22.170"	450.7	(769.1)					
NIGGER (USBR)	G-6760	"	48° 57' 55.228"	1706.0	(147.4)				"	
1936 r.1947	1061		117° 44' 08.911"	181.2	(1039.2)					
BOUNDRY WEST BASE (USBR)	G-6760	"	48° 57' 53.091"	1640.0	(213.4)				"	
1936 r.1947	1061		117° 39' 50.800	1033.3	(187.1)					
DEEP (USBR)	G-6760	"	48° 56' 31.294"	966.7	(886.8)				"	
1936 r.1947	1061		117° 42' 41.119"	836.7	(384.2)					
LAMB (USBR)	G-6760	"	48° 58' 15.614"	482.3	(1371.1)				"	
1936 r.1947	1061		117° 41' 31.907"	648.9	(571.4)					
INTERNATIONAL BOUNDARY COMM.	Field	"	745,922.40	281.1	(1242.9)				"	
BOUNDARY MONUMENT r.1947 # 181	Comp		2,769,683.61	1427.6	(96.4)					
BOUNDARY (USBR)	G-6760	"	48° 58' 03.236"	100.0	(1753.5)				Recovered, not used in radial plot	
1936 r.1947	1061		117° 38' 38.984"	792.9	(427.5)					
C.P. 281 (HR 10375+75.54)	Field	"	732,509.64	764.9	(759.1)				"	
1936 r.1947	Comp P 20		2,761,172.73	357.4	(1166.6)					
W.W.P. AP 814	"	"	723,686.08	1123.5	(400.5)				"	
1936 r.1947			2,750,201.81	61.5	(1462.5)					
U.S. CANADIAN B.M. # 180	G-6760	"	49° 00' 02.946"	91.0	(1762.5)				"	
(USBR) 1930 r.1947	1062		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

M-2388-12

MAP T-8872 PROJECT NO. PH2 (45) SCALE OF MAP 1:10,000 - SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
C.P. 226 (UL 8196+00.59) 1936	Field Comp P 19	N.A. 1927	719,774.76	1455.3	(68.7)				Not searched for. Plotted at request of hydro party.	
			2,738,173.62	967.3	(556.7)					
C.P. 230 (UL 8336+04.30) 1936	"	"	722,771.33	844.7	(679.3)				"	
			2,742,327.85	709.5	(814.5)					
C.P. 232 (UL 8392+71.25) 1936	"	"	724,610.71	1405.3	(118.7)				"	
			2,746,830.64	558.0	(966.0)					
C.P. 234 (UL 8453+99.28) 1936	"	"	727,717.86	828.4	(695.6)				"	
			2,752,040.07	621.8	(902.2)					
C.P. 236 (UL 8514+49.53) 1936	"	"	730,584.48	178.1	(1345.9)				"	
			2,757,218.78	676.3	(847.7)					
C.P. 238 (UL 8566+38.84) 1936	Field Comp P 20	"	733,650.37	1112.6	(411.4)				"	
			2,761,325.37	4040.	(1120.0)					
C.P. 240 (UL 8644+43.69) 1936	"	"	738,867.95	1179.0	(345.0)				"	
			2,765,970.83	295.9	(1228.1)					
C.P. 242 (UL 8719+15.89) 1936	"	"	745,849.17	258.8	(1265.2)				"	
			2,767,849.42	868.5	(655.5)					
C.P. 273 (UR 10063+63.61) 1936	Field Comp P 19	"	719,996.63	1523.0	(1.0)				"	
			2,739,022.54	1226.1	(297.9)					
C.P. 275 (UR 10147+28.21) 1936	"	"	721,792.81	546.4	(977.6)				"	
			2,741,805.48	1464.7	(59.3)					
C.P. 277 (UR 10245+71.74) 1936	"	"	725,751.50	229.1	(1294.9)				"	
			2,750,457.89	139.6	(1384.4)					
C.P. 279 (UR 10305+35.63) 1936	"	"	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

V/Y

MAP T- 8872 PROJECT NO. PH 2(45) SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
C.P. 283 (UR 10408+23.43) 1936	Field Comp P 20	N.A. 1927	734,233.88	1290.5	(233.5)				Not searched for plotted at request of hydro party.	
			2,763,911.16	1192.1	(331.9)					
C.P. 285 (UR 10482+14.04) 1936	P 19	"	739,679.00	1426.2	(97.8)				"	
			2,767,115.78	644.9	(879.1)					
SIDING (USBR) 1936	G-6760 1061	"	48° 57' 22.067"	681.7	(1171.8)				Not searched for.	
			117° 39' 44.888"	913.2	(307.4)					

1 FT. = .3048006 METER

COMPUTED BY: J.L. Harris DATE 2/13/48 CHECKED BY: F.L. Elrod DATE 2/13/48

M-2388-12

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
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 particulary 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~~ 1301.0 ft. above Mean Sea Level at the International Boundary.

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 ofcompliation, 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 Earle

Robert A. Earle
Chief of Party

Respectfully submitted,

J. Edward Deal Jr.

J. Edward Deal, Jr.
Photogrammetric Engineer

Form 567
Rev. March 1935

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY Area of 7th Radial Plot

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

LANDMARKS FOR CHARTS

AERONAUTICAL ~~HYDRO~~ Coulee Dam, Washington Nov., 1937

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

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

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

GENERAL LOCALITY Franklin D Roosevelt Lake

NAME AND DESCRIPTION	POSITION					METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
	LATITUDE		LONGITUDE		DATUM						
	° ′	D. M. METERS	° ′	D. P. METERS							
LOOKOUT HOUSE, Swede Pass M-769 Swede Pass L.O. House S.of T-8870	48 47	(20.9) 1832.5)	117 56	(895.2) 329.2	NA 1927	Triang ulation	1936				K-2

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 69975

Form 567
Rev. March 1935

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

Project Fh-2 (45)
Area of 7th Radial Plot

LANDMARKS FOR CHARTS

TO BE CHARTED } STRIKE OUT ONE
TO BE DELETED }

Coulee Dam, Washington Nov., 1947

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

The positions given have been checked after listing. J.T.D. cal

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

GENERAL LOCALITY Franklin D. Roosevelt Lake

NAME AND DESCRIPTION	POSITION						METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
	LATITUDE			LONGITUDE		DATUM						
	° ′	D. M. METERS		° ′	D. P. METERS							
STACK, Square (182 ft. high) T-8871	48 55	(1556.8) 296.7		117 46	(781.5) 440.0	NA 1927	Radial Plot	1947				Area not charted
STACK, Cylindrical (93 ft. high) T-8871	48 55	(1561.5) 492.0		117 46	(880.9) 340.6	NA 1927	Radial Plot	1947				"
TOWER, Concrete (U.S.G.S. Gaging station T-8872	48 58	(1348.5) 905.0		117 39	(327.0) 893.3	NA 1927	Radial Plot	1947				"
TOWER, Concrete (U.S.G.S. Gaging station, International Boundary (T-8872)	49 00	(1782.5) 71.0		117 37	(570.0) 843.6	NA 1927	Radial Plot	1947				"

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

U. S. GOVERNMENT PRINTING OFFICE 69675

Hydrographic Signal Sites
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

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

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

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

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

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
Stevens County										2
Franklin D. Roosevelt Lake									USGB	3
State Highway No. 22										4
Great Northern Railway										5
										6
O'Toole Mountain										7
Swede Pass										8
China Bend										9
Marble										10
Crown Creek										11
Crown Creek Road										12
Flat Creek Road										13
Flat Creek School										14
River Road										15
Rattlesnake Creek										16
Little Dalles										17
Island Rock										18
Onion Creek										19
Onion Creek Road										20
Kanes Siding										21
Brodie Mountain		(Just east of new limit of map)								22
Spokane Portland Cement Co. Plant.										23
										24
										25
										26
										27

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

M 234

GEOGRAPHIC NAMES

Survey No. T-8871

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
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
North Newport Grade and High School										9
Presbyterian Church										10
U.S. Customhouse										11
U.S. Immigration Office										12
Joslyn Road										13
Smelter Rock										14
Deadmans Eddy										15
Sand Point										16
Deep Creek										17
Steamboat Rock	It would seem preferable to apply this name to the main rock left of the former large feature--on T-8872--rather than invent the new name of Steamboat Rocks									18
Sheep Creek										19
Sheep Creek School										20
										21
										22
										23
										24
										25
										26
										27

Names underlined in red are approved
5-4-49 L. Heck

M 234

GEOGRAPHIC NAMES

Survey No. T-8872

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
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
				Names underlined in red are approved. 5-9-49. L. Heck.						17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

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 (condemed 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° 48.65', long. 117° 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-7696 See shoreline changes in red on H-7696 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 U S Engineers Nov. , 1949.

4.3 Comparison with Previous Surveys:

No earlier topographic survey by this Bureau has been made.

→ A hydrographic survey is in process.

4.4 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 hazzard to navigation.

An examination of the hydrographic map for this area will reveal the condition of the channel. (See 4.3 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

Approved by:

L. V. Griffith
Chief, Review Section
Div. of Photogrammetry

H. C. Johnston
Chief, Nautical Chart Branch
Division of Charts

O. S. Reading
Chief, Division of Photogrammetry

W. M. Adams
Chief, Div. of Coastal Surveys

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