<table>
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<th>Type of Survey</th>
<th>Planimetric Air Photographic Shoreline T-8870 to T-8872 incl.</th>
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<tr>
<td>Field No.</td>
<td>PH-2(45)</td>
</tr>
<tr>
<td>Office No.</td>
<td>T-8872 incl.</td>
</tr>
</tbody>
</table>

**LOCALITY**

- **State**: Washington
- **General locality**: Franklin D. Roosevelt Lake
- **Locality**: From China Bend to the International Boundary

**1946-1947**

**CHIEF OF PARTY**

- J.T. Jarman

**LIBRARY & ARCHIVES**

**DATE**: January 3, 1950
DATA RECORD

T-2870

Quadrangle (II): Colville, Wash. (USGS)  
Project No. (II): Ph-2 (45)  

30 minute 1:125,000

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


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

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

\[ I = 2,712,645.58', \quad Y = 692,320.20' \]

Military Grid Zone (VI)

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

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
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<td>14:08 P.S.T.</td>
<td>1:10,000</td>
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<tr>
<td>17661 to 17665 inc.</td>
<td>8/27/46</td>
<td>10:24 P.S.T.</td>
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</table>

Water level of lake

Gradient between 1290.0 ft. above M.S.L. at China Bend to 1246.6 ft. above M.S.L. at International Boundary.

See Profile attached to Descriptive Report for Fifth Radial Plot (T-5N13-63)

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
STATISTICS (III)

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

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

Shoreline (Less than 200 meters to opposite shore): 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. LaJoye, J.H. Winniford  
Date: 9/26/47 to 12/5/47

Shoreline Inspection
J.C. LaJoye, J.H. Winniford, R.W. Sherwood  
Date: 10/9/47 to 10/13/47

Interior Field Inspection & Geographic Names
J.H. Winniford  
Date: 9/17/47 to 9/24/47

Recovery of Vertical Control
C. Hanavich  
Date: 8/4/47 to 10/15/47


DATA RECORD

T-8871

Quadrangle (II): Colville, Wash. (U.S.G.S.)  
Project No. (II): Ph-2 (45)
30 minute  1:125,000

Field Office: Culee 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

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, U.S.G.S., 1208.3 ft U.S.G.S.

Reference Station (III): NORTHPORT (USBR) 1936

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

State Plane Coordinates (VI): Washington North Zone

X = 2, 784.733.12'  
Y = 711, 635.42'

Military Grid Zone (VI)
PHOTOGRAPHS (III)

Number | Date      | Time  | Scale |
-------|-----------|-------|-------|
17563 to 17566 Inc. | 8/22/46 | 14:12 P.S.T. | 1:10,000 |
17665 to 17669 Inc. | 8/27/46 | 10:26 P.S.T. | 1:10,000 |

Water level of lake SD: Gradient between 1290.0 ft above M.S.L. at China Bend to 1320.8 ft. above M.S.L. at International Boundary.

See Profile attached to Descriptive Report for Fifth Radial Plot (F-8663-15)

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
" " " checked by: Washington Office
date: January 1948
date: January 1948
date: June 16, 1948
date: June 17, 1948
date: July 1, 1948
date: Aug 5, 1948
date: Aug 6, 1948

Control plotted by: James L. Harris
date: January 1948
Control checked by: Frank H. Elrod
date: July 1, 1948

Radial Plot by: J.L. Harris & J.E. Deal
date: Aug 5, 1948

Detailed by: R.A. Davidson & H.L. Laube
date: Aug 6, 1948

Reviewed in compilation office by: Ree H. Barron

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:

- Recovery of Horizontal Control
  C. Hanavich, J.C. Lajoye, J.H. Winniford

  Date
  9/17/47 to 12/2/47

- Shoreline Inspection
  J.C. Lajoye, J.H. Winniford, R.W. Sherwood

  Date
  10/6/47 to 10/9/47

- Interior field inspection and Geographic Names
  J.H. Winniford

  Date
  9/11/47 to 9/17/47

- Recovery of Vertical Control
  C. Hanavich

  Date
  8/4/47 to 10/15/47
DATA RECORD
T- 8872

(30 minute 1:125,000)

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


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 = 128.5 ft USCGS

Reference Station (III): DRY (USBR) 1936

Lat.: 48° 58' 36.64" (1131.9m) Long.: 117° 39' 40.50" (823.7m) Adjusted Unadjusted

State Plane Coordinates (VI): Washington North Zone

\[ X = 2,741,701.63', \quad Y = 736,310.20' \]

Military Grid Zone (VI)
### Photographs (III)

<table>
<thead>
<tr>
<th>Number</th>
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<th>Scale</th>
<th>Water level of Lake</th>
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<tr>
<td>17567 to 17570 inc.</td>
<td>8/22/46</td>
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<td>1:10,000</td>
<td>Gradient between 1290.0 ft. above M.S.L. at China Bend</td>
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<tr>
<td>17665 to 17669 inc.</td>
<td>8/27/46</td>
<td>10:43 P.S.T.</td>
<td>1:10,000</td>
<td>to 1394.9 ft. above M.S.L. at International Boundary.</td>
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</table>

Gradient between 1290.0 ft. above M.S.L. at China Bend to 1394.9 ft. above M.S.L. at International Boundary.

See Profile attached to Descriptive Report for Fifth Radial Plot (T-8163-45)

### 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

### Elevation on Field Edit Sheet:
checked by: None
date:
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. Lajoye, J.H. Winniford  Date 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
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<th>DATUM</th>
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<th>LONGITUDE OR $\lambda$-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<td>C.P. 208</td>
<td>Field Comp F 19</td>
<td>N.A. 1927</td>
<td>666,546.26</td>
<td>2,700,691.87</td>
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<td>(UL 7636+63.15) 1936</td>
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<td>C.P. 263</td>
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<td>PEPON (USBR)</td>
<td>G-6760</td>
<td>1936</td>
<td>48° 52' 41.200&quot;</td>
<td>117° 53' 16.084&quot;</td>
<td>1272.7 (580.8)</td>
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<td>C.P. 265</td>
<td>Field Comp F 19</td>
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<td>695,760.68</td>
<td>2,712,853.49</td>
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<tr>
<td>(UR 9607+17.57) 1936</td>
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<td>FLAG (USGS) (NEAR O'TOOLE, CEGS)</td>
<td>G-6760</td>
<td>1936</td>
<td>48° 48' 32.649&quot;</td>
<td>117° 52' 57.535&quot;</td>
<td>1008.5 (844.9)</td>
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<td>CROWN (USBR)</td>
<td>G-6760</td>
<td>1936</td>
<td>48° 51' 02.526&quot;</td>
<td>117° 55' 34.305&quot;</td>
<td>78.0 (1775.4)</td>
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<td>DENNY (USBR)</td>
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<td>1936</td>
<td>48° 50' 07.008&quot;</td>
<td>117° 56' 55.301&quot;</td>
<td>216.5 (1637.0)</td>
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<td>ONION (USBR)</td>
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<td>48° 52' 02.687&quot;</td>
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<td>RUSS (USBR)</td>
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<td>48° 50' 54.477&quot;</td>
<td>117° 52' 29.408&quot;</td>
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<td>SMITH (USBR)</td>
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<td>48° 49' 38.732&quot;</td>
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1 FT = 0.3048006 METER

COMPUTED BY: F.H. Elrod DATE: 2/4/48
CHECKED BY: J.L. Harris DATE: 3/2/48
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<th>LONGITUDE OR ( \lambda )-COORDINATE</th>
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<th>N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<td>O'TOOLE (USC&amp;GS)</td>
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<td>CON (USBR)</td>
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<tr>
<td>C.F. 265</td>
<td>Field Comp. P-19</td>
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<td>231.9 (1292.1)</td>
<td>Notes plotted at request of hydro party</td>
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<td>(UR 9627+17.57)</td>
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<td></td>
<td>1936</td>
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<td>C.F. 267</td>
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<td>&quot;</td>
<td>699.435.57</td>
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<td>1352.0 (172.0)</td>
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<tr>
<td>1936</td>
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<td>1936</td>
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1 FT. = 0.3048006 METER

COMPUTED BY: F.H. Elrod  DATE: 2/4/48

CHECKED BY: J.L. Harris  DATE: 3/1/48

M-2388-12
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1 FT. = 0.3048008 METER

COMPUTED BY: F.H. Elrod
DATE: 2/4/48
CHECKED BY: J.L. Harris
DATE: 3/2/48
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1 FT. = 0.3048006 METER

COMPUTED BY: F.H. Eldred

DATE: 2/4/48

CHECKED BY: J.L. Harris

DATE: 3/2/48
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1 FT. = 0.048006 METER

COMPUTED BY: F.H. Elrod  DATE: 2/5/48

CHECKED BY: J.L. Harris  DATE: 2/13/48
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<td>(UL 10245+71.74) 1936</td>
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<td>&quot;</td>
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<td>1523.0 (1.0)</td>
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<td>(UL 10305+35.63) 1936</td>
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1 FT. = 304.8006 METER

COMPUTED BY: F.H. Elrod
DATE: 2/5/48

CHECKED BY: J.J. Harris
DATE: 2/13/48
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<th>DATUM CORRECTION</th>
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1 FT. = 3048008 METER

COMPUTED BY: J.L. Harris | DATE: 2/13/48 | CHECKED BY: F.L. Elrod | DATE: 2/13/48
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 1943. Filed in the Bureau Archives.

R. A. Earle
Lt. Comdr., USCGGS
Chief of Party

From F.I. Report:
15. Bridges & Cable Crossings
T-8870

Power line crossing: Little Dallas

T-8871

Highway E-22, Northport (condemned)
Power line

T-8872
N. Overhead cable (bucket ferry), Boundary. S.
COMPILATION REPORT
Map Manuscripts T-8370 to T-8372 inclusive
Area of the 7th Radial Plot
Project Ph-2 (45)

26: CONTROL

Twenty-one horizontal control stations were recovered and identified by the field party 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 U.S. 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-2383-12, which are attached to this descriptive report.

27: RADIAL PLOT:

These three map manuscripts, No's. T-8370 to T-8372 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-8349 to T-8352 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.
DETAILED:

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" = 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-3863 to T-3865, Project Ph-2 (45), (i.e., 5th Radial Plot),

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.

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-8371
- 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-8372

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:

<table>
<thead>
<tr>
<th>Sheet No.</th>
<th>Signals Pricked by Field Party</th>
<th>Signals Rejected</th>
<th>Sig. Estab.</th>
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</thead>
<tbody>
<tr>
<td>8870</td>
<td>57</td>
<td>6</td>
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<tr>
<td>8871</td>
<td>45</td>
<td>2</td>
<td>44</td>
</tr>
<tr>
<td>8872</td>
<td>64</td>
<td>10</td>
<td>54</td>
</tr>
</tbody>
</table>

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
Chief of Party

Respectfully submitted,

J. Edward Deal, Jr.
Photogrammetric Engineer
Hydrographic Signal Sites
8870 - 8872 - 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 pines
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 boundary 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
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<th>B</th>
<th>C</th>
<th>D</th>
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Names underlined in red are approved. 4/28/49 L. Beek.
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It would seem preferable to apply this name to the main rock left of the former large feature—on 5/872—rather than invent the new name of Steamer Rocks.

Names underlined in red are approved 5-4-49 I. Hock
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</table>

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.
2. Highway No. 22, at Northcoot (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.

Comparison with Previous Surveys:

No earlier topographic survey by this Bureau has been made.

A hydrographic survey is in process.

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 Northcoot, 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. (Sec 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
T-8670 29 April 1949
T-8871 3 May 1949
T-8872 9 May 1949

Approved by:
L. Griffith, Chief, Review Section
W. S. Reading, Chief, Division Photogrammetry

M. S. Moorman, Chief, Nautical Chart Branch

W. W. Gore, Chief, Div. of Coastal Surveys