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

Form 904
U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Planimetric Air Photographs
Type of Survey Shoreline
Field No. Ph-2 (45) Office No. T-8853, T-8854, T-8955 & T-8856

LOCALITY
State Washington
General locality F.D. Roosevelt Lake
Locality From Hellgate Canyon to Sixmile Cr.

1946-47
CHIEF OF PARTY
J.T. Jarman

LIBRARY & ARCHIVES
DATE November 10, 1949
DATA RECORD
T-8853

Quadrangle (II): WILBUR, WASHINGTON (U.S.E.) 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 Copy filed in Descriptive
Report No. T-
Photogrammetry Office Files

Completed survey received in office: 11 Mar. 1948

Reported to Nautical Chart Section: 18 Mar. 1948

Reviewed: 29 Dec. 1947 Applied to chart No. Date:

Redrafting Completed:

Registered: 19 Oct. 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.)

Reference Station (III): SHERMAN, 1936 r 1947
Lat.: 47° 52' 0.510" (46.6m) Long.: 118° 34' 26.406" (543.8m) Adjusted X
Unadjusted

State Plane Coordinates (VI): Washington, North Zone

\[ x = 1,685,377.03 \quad y = 220,007.13 \]

Military Grid Zone (VI)
PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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<td>12:02 PST</td>
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U.S. Army
Single lens
16-2 & 20-2
78-2 & 80-2
13-3 to 16-3

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
U.S. Army, Single lens, focal length 8.25 inches

Field Inspection by: J.T. Jarman
Interior - John Winniford  date: Summer 1947
Shoreline - John Lajoie  6-13-47

Field Edit by: None
Geo. Names - John Winniford  7-14-47

Date of Mean High-Water Line Location (III): 8-22-46

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

Control plotted by: Helen Letson
date: Sept. 11, 1947

Control checked by: J.E. Deal
date: Sept. 18, 1947

Radial Plot by: James L. Harris & J.E. Deal
date: Sept. 30, 1947

Detailed by: M. Elrod
date: Nov. 12, 1947

Reviewed in compilation office by: Ree H. Barron
date: Nov. 26, 1947

Elevations on Field Edit Sheet
checked by: None
date:
STATISTICS (III)

Land Area (Sq. Statute Miles): 31.0  (Complete detail along shoreline)
(Skeleton detail interior)

Shoreline (More than 200 meters to opposite shore): 16 statute miles

Shoreline (Less than 200 meters to opposite shore): 5 statute miles

Number of Recoverable Topographic Stations established: 3

Number of Temporary Hydrographic Stations located by radial plot: 67

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:
DATA RECORD

T-8854

Quadrangle (II): Devensort, Wash. (USE) Project No. (II): Ph-2(45)
30 minute 1:125000

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


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

Completed survey received in office: 1/1 Mar. 1948

Reported to Nautical Chart Section: 18 Mar. 1948

Reviewed: 4 Jan. 1949

Redrafting Completed: —

Registered: 19 Oct. 1949

Compilation Scale: 1:10000

Published: Published Scale:

Scale Factor (III): None

Geographic Datum (III): N.A. 1927

Datum Plane (III): Mean Sea Level (USGS)

Reference Station (III): WELSE (USGS) 1934 & 1947

Lat.: 47° 49' 52.339" (1618.5m) Long.: 118° 26' 26.437" (549.8m) Adjusted Unadjusted

State Plane Coordinates (VI): Washington, North Zone

\[ X = 2,587,607.55 \quad Y = 312,332.18 \]

Military Grid Zone (VI)
PHOTOGRAPHS (III)

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<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
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<tr>
<td>Nine Lens</td>
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<tr>
<td>17381 &amp; 17382</td>
<td>8-21-46</td>
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<td>1289.65 above M.S.L.</td>
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<td>17460 to 17461</td>
<td>8-22-46</td>
<td>11:29 P.S.T. 1:10000</td>
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<td>17479 &amp; 17480</td>
<td>8-22-46</td>
<td>11:55 E.S.T. 1:10000</td>
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<td>U.S. Army Single Lens</td>
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<tr>
<td>11-3 &amp; 12-3</td>
<td>1944</td>
<td>Unknown</td>
<td>1:20,000</td>
<td>Unknown</td>
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<td>30-4 &amp; 33-4</td>
<td>1944</td>
<td>Unknown</td>
<td>1:20,000</td>
<td>Unknown</td>
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Tide from (III): None

Mean Range: None

Spring Range: None

Camera: (Kind or source) U.S.C.& G.S., 9 lens, focal length 6.25 inches

U.S. Army, Single lens, focal length 6.25 inches

Field Inspection by: J.T. Jerman
Interior, John Winniford
Shoreline, John Laioye
date: Summer 1947
date: 6-15-47
date: 7-23-47
Field Edit by: (none) Geo. Names, John Winniford
date: 6-15-47

Date of Mean High-Water Line Location (III): 8-22-46

Projection and Grids ruled by (III) Washington Office
date: July 1947
date: July 1947
date: July 1947
date: Sept. 10, 1947
date: Sept. 15, 1947
date: Oct. 14, 1947

Control plotted by: Helen Letson
date: July 1947

Control checked by: J.E. Deal
date: July 1947

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

date: Oct. 14, 1947

Detailed by: Helen Letson
date: Dec. 8, 1947

Reviewed in compilation office by: R.H. Barron
date: Dec. 16, 1947

Elevations on Field Edit Sheet
checked by: None
Land Area (Sq. Statute Miles): 37.5 sq. mi. (complete detail along shoreline) (skeleton detail interior)

Shoreline (More than 200 meters to opposite shore): 20.2 Statute miles

Shoreline (Less than 200 meters to opposite shore): 1 Statute mile

Number of Recoverable Topographic Stations established: 4

Number of Temporary Hydrographic Stations located by radial plot: 44

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:
DATA RECORD
T-8855

30 minute 1:125000

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


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

Completed survey received in office: 11 Mar. 1948

Reported to Nautical Chart Section: 18 Mar. 1948

Reviewed: 6 Jan. 1949  Applied to chart No.  Date:

Redrafting Completed: ———

Registered: 14 Oct. 1949  Published:

Compilation Scale: 1:10000  Published Scale:

Scale Factor (III): None

Geographic Datum (III): N.A. 1927  Datum Plane (III): Mean Sea Level (USGS) = 1288.5 USCG 3,1929

Reference Station (III): EMERSON (USGS) 1934 r 1947

Lat.: 47° 52' 13.301" (410.8m)  Long.: 118° 20' 22.876" (475.4m) Adjusted x

State Plane Coordinates (VI): Washington, North Zone

\[ x = 2,611,938.04 \quad y = 327,393.01 \]

Military Grid Zone (VI)
PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
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<td>8/22/46</td>
<td>10:46 P.S.T. 1:10000</td>
<td>1289.65 above M.S.L.</td>
<td></td>
</tr>
<tr>
<td>17424 to 17427</td>
<td>8/22/46</td>
<td>11:33 P.S.T. 1:10000</td>
<td>1289.65 above M.S.L.</td>
<td></td>
</tr>
<tr>
<td>17463 to 17466</td>
<td>8/22/46</td>
<td>11:53 P.S.T. 1:10000</td>
<td>1289.65 above M.S.L.</td>
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</table>

U. S. Army
Single Lens
7-3 & 8-3 1944 Unknown 1:20000 Unknown
34-4 to 37-4 1944 Unknown 1:20000 Unknown
4-4 & 50-4 1944 Unknown 1:20000 Unknown
75-4 to 78-4 1944 Unknown 1:20000 Unknown

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
U. S. Army; Single lens, focal length 8.25 inches

Field Inspection by: J. T. Jarman
Interior, John Winniford
date: Summer 1947
Shoreline, John Lejoe
date: 6-18-47
Field Edit by: (none) Geo. Names, John Winniford
date: 6-18-47

Date of Mean High-Water Line Location (III): 8-22-46

Projection and Grids ruled by (III) Washington Office
date: July 1947
" " " checked by: Washington Office
date: July 1947
Control plotted by: Helen Letson
date: Sept. 9, 1947
Control checked by: J. E. Deal
date: Sept. 10, 1947
Radial Plot by: J.L. Harris & J.E. Deal
date: Oct. 14, 1947
Detailed by: Roy A. Davidson
date: Nov. 17, 1947
Reviewed in compilation office by: Ree H. Barron
date: Dec. 8, 1947

Elevations on Field Edit Sheet
checked by: none
date:
STATISTICS (III)

Land Area (Sq. Statute Miles): 31.2 (Complete detail along shoreline) (Skeleton detail interior)

Shoreline (More than 200 meters to opposite shore): 18.5

Shoreline (Less than 200 meters to opposite shore): 1.5

Number of Recoverable Topographic Stations established: 2

Number of Temporary Hydrographic Stations located by radial plot: 44

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:
DATA RECORD

T-8856

Quadrangle (II): Davenport, (U.S.E.)  Project No. (II): ph-2(45)
30 minute 1:125000

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


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

Completed survey received in office: 11 Mar. 1948

Reported to Nautical Chart Section: 18 Mar. 1948

Reviewed: 13 Jan. 1949  

Redrafting Completed: 

Registered: 19 Oct. 1949  

Compilation Scale: 1:10000  

Scale Factor (III): None

Geographic Datum (III): N.A. 1927  

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

Lat.: 47° 54' 27.874" (860.9m)  

Long.: 118° 19' 57.308" (1190.1m) Adjusted x. 

State Plane Coordinates (VI): Washington, North Zone

x = 2,613,237.29  

y = 341,080.01

Military Grid Zone (VI)
PHOTOGRAPHS (III)  

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<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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<td>17493</td>
<td>8/22/46</td>
<td>12:22 P.S.T. 1:10000</td>
<td>1289.65 above M.S.L.</td>
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<tr>
<td>17501 to 17504 Inc.</td>
<td>8/22/46</td>
<td>12:56 P.S.T. 1:10000</td>
<td>1289.65 above M.S.L.</td>
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<tr>
<td>17610 to 17613 Inc.</td>
<td>8/27/46</td>
<td>9:03 P.S.T. 1:10000</td>
<td>1289.61 above M.S.L.</td>
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</table>

U.S. Army Single lens  
92-1 to 95-1 Inc. | 1944 | Unknown | 1:20000 | Unknown  
4-2 to 10-2 Inc. | 1944 | Unknown | 1:20000 | Unknown  
87-2 to 92-2 Inc. | 1944 | Unknown | 1:20000 | Unknown  
5-3 & 6-3 Inc. | 1944 | Unknown | 1:20000 | Unknown  

Tide from (III): None  
Mean Range: None  
Spring Range: None  

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

Field Inspection by: J. T. Jarman  
Interior: John Winniford  
Shoreline: John Lajoye  

Field Edit by: (none)  
Geo. Names: John Winniford  

Date of Mean High-Water Line Location (III): 8-22-46  

Projection and Grids ruled by (III) Washington Office  
checked by: " " "  

Control plotted by: Helen Letson  
Control checked by: J.E. Deal  

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

Detailed by: Carita Wiebe  

Reviewed in compilation office by: Ree H. Barron  

Elevations on Field Edit Sheet  
checked by: None  

date: Summer 1947  
date: 6-20-47  
date: 8-15-47  
date: 6-20-47  
date: July 1947  
date: July 1947  
date: Sept. 10, 1947  
date: Sept. 11, 1947  
date: Oct. 14, 1947  
date: Dec. 26, 1947  
date: Jan. 13, 1948  

date:
STATISTICS (III)

Land Area (Sq. Statute Miles): 10 (Complete detail along shoreline)
(Skeleton detail over portion of interior area

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

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: 42

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:
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<th>SOURCE OF INFORMATION (INDEX)</th>
<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>
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<td>WHITESTONE</td>
<td>G 6760 USBR 1934</td>
<td>N.A. 1927</td>
<td>47° 53' 59.903&quot;</td>
<td>128° 31' 12.822&quot;</td>
<td>1850.2 (3.0)</td>
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<td>SHERMAN</td>
<td>G 6761 USBR 1039</td>
<td>1936</td>
<td>47° 52' 01.510&quot;</td>
<td>266.3</td>
<td>1806.5 (979.9)</td>
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<td>HELL'S GATE</td>
<td>G 6760 USBR 1038</td>
<td>1934</td>
<td>47° 56' 27.668&quot;</td>
<td>548.8</td>
<td>698.2 (998.6)</td>
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<td>SIMONS</td>
<td>G 6760 USBR 1039</td>
<td>1934</td>
<td>47° 51' 46.964&quot;</td>
<td>564.5</td>
<td>680.7 (990.6)</td>
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<td>JIM</td>
<td>G 6760 USBR 1039</td>
<td>1934</td>
<td>47° 56' 25.685&quot;</td>
<td>793.3</td>
<td>1059.9 (705.6)</td>
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<td>CP #49</td>
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<td>1934</td>
<td>47° 55' 19.922&quot;</td>
<td>617.5</td>
<td>1235.7</td>
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<td>CP #48</td>
<td>(UR1471+41.68)</td>
<td>1934</td>
<td>47° 55' 59.392&quot;</td>
<td>1167.6</td>
<td>756.4 (78.0)</td>
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<td>CP #54</td>
<td>(UR1716+51.78)</td>
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<td>47° 52' 45.896&quot;</td>
<td>1417.5</td>
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<td>CP #57</td>
<td>(UR1960+10.40)</td>
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<td>47° 51' 58.835&quot;</td>
<td>588.8</td>
<td>657.9 (36.0)</td>
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<td>CP #51</td>
<td>(UR2120+83.36)</td>
<td>1934</td>
<td>47° 52' 30.417&quot;</td>
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<td>74.1 (36.0)</td>
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<td>(UR1701+58.64)</td>
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<td>47° 55' 29.606&quot;</td>
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<td>686.9 (938.7)</td>
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<td>(UR1789+20.22)</td>
<td>1934</td>
<td>47° 55' 33.004&quot;</td>
<td>200.4</td>
<td>1045.2 (1045.2)</td>
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1 FT = 0.3048006 METER
COMPUTED BY: J.L. Harris      DATE: July 1947
CHECKED BY: C. Wiebe & F.H.E.  DATE: July 1947
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<th>SOURCE OF INFORMATION (HOE)</th>
<th>LATITUDE OR X-COORDINATE</th>
<th>LONGITUDE OR Y-COORDINATE</th>
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<td>Comp., 1927</td>
<td>4°70 53' 14&quot; 24,131&quot;</td>
<td>121°05' 35&quot; 12,469&quot;</td>
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<td>CP #53</td>
<td>USR, 1927</td>
<td>4°70 53' 14&quot; 24,131&quot;</td>
<td>121°05' 35&quot; 12,469&quot;</td>
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<td>CP #54</td>
<td>G 6760 Comp., 1927</td>
<td>4°70 53' 14&quot; 24,131&quot;</td>
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<td>G 6760 Field, 1927</td>
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<td>121°05' 35&quot; 12,469&quot;</td>
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<td>CP #56</td>
<td>(UTM 3564 04, 69) Field</td>
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<td>121°05' 35&quot; 12,469&quot;</td>
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<td>CP #57</td>
<td>(UTM 3555 23, 04) Field</td>
<td>11°05 53' 14&quot; 24,131&quot;</td>
<td>121°05' 35&quot; 12,469&quot;</td>
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<td>CP #58</td>
<td>(UTM 2052 04, 58) Field</td>
<td>11°05 53' 14&quot; 24,131&quot;</td>
<td>121°05' 35&quot; 12,469&quot;</td>
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<td>CP #59</td>
<td>(UTM 2052 04, 58) Field</td>
<td>11°05 53' 14&quot; 24,131&quot;</td>
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<td>CP #61</td>
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<td>11°05 53' 14&quot; 24,131&quot;</td>
<td>121°05' 35&quot; 12,469&quot;</td>
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<td>121°05' 35&quot; 12,469&quot;</td>
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| SCALE FACTOR | 1 : 20,000 |

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<th>CHECKED BY</th>
<th>I. J. S. ELLIS</th>
</tr>
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<tbody>
<tr>
<td>DATE</td>
<td>August 1947</td>
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<tr>
<th>COMPUTED BY</th>
<th>P. H. F. E. R. D.</th>
</tr>
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<tbody>
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<td>47° 50' 00.41&quot; 118° 25' 29.76&quot;</td>
<td>12.7 (1820.4)</td>
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1 FT. = 0.3048006 METER

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<td>47° 48' 68.212&quot;</td>
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<td>(UR2799+36.18)</td>
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<td>47° 49' 00.387&quot;</td>
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<td>12.0 (1841.1)</td>
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<td>CP #85</td>
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<td>47° 49' 39.800&quot;</td>
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<td>(UR3171+14.81)</td>
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<td>EMERSON</td>
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<td>CHINA</td>
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1 FT = 304.8008 METER
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DATE: 8/22/47
CHECKED BY: F.H. Elrod
DATE: 8/22/47
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<td>Sta.&quot;M&quot; Hawk Cr</td>
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<td>47° 51' 13.965&quot;</td>
<td>118° 20' 20.073&quot;</td>
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<td>CP #93</td>
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<td>1935</td>
<td>&quot; (1947)</td>
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<td>HAWK CREEK</td>
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1 ft. = 0.3048006 meter

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DATE: January 1948
CHECKED BY: R. A. Davidson
DATE: January 1948

M-208.12
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1 FT. = 304.8006 METER

COMPUTED BY: F.H. Elrod
DATE: 8/22/47

CHECKED BY: J.L. Harris
DATE: 8/25/47
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FIELD INSPECTION REPORT
Area of the Second Radial Plot
Project PH-2(45)

1. Description of the Area:

The area of the second radial plot unit is comprised of 4 shoreline surveys numbered 8853 to 8856 inclusive. It includes that portion of the Franklin D. Roosevelt Lake between the San Poil and the Spokane Rivers. The Lake meanders east and west through a deep and wide canyon and roughly bisects the area.

The topography along the north and south sides of the Lake and inland is similar to that found in the area of the first radial plot unit. Heavily wooded areas are found especially on the west side of the Lake in 8855 and 8856. Wooded areas and cultivated lands are found on the east side in these sheets.

One major state highway traverses the east side of the area; State Highway No. 22, a north-south highway, it crosses the Spokane branch of the reservoir adjacent to the townsite of Miles and continues northward along the east side of the Lake. Several gravel and dirt roads extend down the canyons toward the reservoir. There are no railroads in the area.

A post office and a few buildings mark the site of Miles. The only other town is Lincoln in sheet 8854; its chief industry is lumber. In this vicinity tugs may be seen towing log rafts along the Lake.

The Grand Coulee Navigation Company makes daily excursions between Miles and Coulee Dam, Wn.

For additional information refer to "The Field Inspection Report, Area of the First Radial Plot" side heading 1 under the general description of the project area and paragraphs 4, 5, 6, 7, and 9.

2. Completeness of Field Inspection:

The field inspection for the clarification of details on the photographs, and for the classification and identification of roads, shoreline, buildings, et cetera, has been completed in accordance with the instructions for this Project dated 3 April 1947. For additional information see side heading # of the "Field Inspection Report for the Area of the First Radial Plot".

3. Interpretation of the Photographs:

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

4. Horizontal Control:

Idem

5. Vertical Control:

Idem
6. Contours and Drainage:
Idem

7. Shoreline Plane of Reference:
Idem

8. Low-Water Line:
Idem

9. Wharves and Shoreline Structures:

There are no dolphins, piling, wharves or shoreline structures in the area except for several booms and floating docks (floats), which were deleted, in the vicinity of Lincoln Mills and Miles, Wn.

10. Details Offshore from the Shoreline Plane of Reference:

In areas where the formation of the shore is granitic or basaltic, numerous submerged rocks and ledges are found or suspected. Rocks found awash or bare at the shoreline plane of reference have been noted on the field photographs. The height of rocks baring above the plane, likewise, has been noted. Sandy shoal areas are confined generally to those areas where slides have occurred.

No other offshore obstructions were found.

11. Landmarks and Aids to Navigation:

A selection of prominent objects along the shore was made and these were recommended for future charting. In addition, objects of lesser prominence were recommended because of a paucity of landmarks.

A complete investigation of fixed aids to navigation was made in the field. They were either identified directly on the photographs if visible or by instrumental methods. Their correct names were verified from the latest edition of the "Light List - Pacific". No discrepancies were found in the Light List with regard to their distinctive markings, et cetera.

The practice of locating a topographic station by a sextant fix to other topographic or photo hydro stations was discontinued in this radial plot. Topographic stations established by instrumental methods consisted of three-point theodolite or transit fixes with check angles on triangulation stations.

All landmarks recommended for charting and fixed aids to navigation have been reported on Form 567 as well as on Form 524.

12. Hydrographic Control:

Photo hydro stations were established in accordance with the instructions for this Project. In areas of overhanging bluffs or cliffs and in areas where there were no identifiable objects on the photographs, photo hydro stations were established by ground instrumental work.

With the exception of sheet 5853, the practice of locating a photo hydro
station by a sextant fix taken to other photo hydro stations was discontinued in the second radial plot. This is in accordance with the letter on the subject of locating photo hydro stations from the Acting Director dated 9 July 1947.

The photo hydro stations were designated and described briefly on the field photographs in accordance with the instructions. In addition, they have been listed and described in sketch book volume 3. List attached hereto.

13. Landing Fields and Aeronautical Aids:

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

14. Road Classification:

Refer to this side heading of the "Field Inspection Report, Area of the First Radial Plot, Project PH-2(45)". (*According to Instructions No. 1, 14th Apr. 1947*).

15. Bridges and Cable Crossings:

There is one bridge in the area; it spans the Spokane River near its mouth in sheet 8855.

Name: Spokane River Bridge (local name)
Location: Mouth of Spokane River
Owner: Washington State Highway Commission
Kind: Fixed
Number of Spans: 1
Channel Span: Horizontal clearance - 431 feet (center of pier to center of pier)
Vertical clearance of lowest part above MLW - Not applicable

Purpose of Bridge: Highway
Date of Field Measurements: 8/14/47

A single strand telephone cable crossing is found just northeast of the Spokane River. The vertical clearance determined on 8/14/47 is 68.0 feet.

There were no other overhead or submarine cable crossings over navigable waters found within the limits of this area.

16. Buildings and Structures:

A complete field investigation was made of any buildings and structures along the waterfront. Inland only those buildings and structures were identified that were visible from the water. Inland all public buildings were noted for which there was photograph coverage.

17. Boundary Monuments and Lines:

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

18. Geographic Names:

Idem

"Two special reports for areas No. 8855, 8856, 8857, and 8860 to 8862 incl."
20. *Ferries:

A privately owned ferry (Lincoln Ferry) about a mile north of the mouth of the Spokane River is found in sheet 8856. The ferry is not available to the public and maintains no definite schedule of operations.

21. *Field Photographs:

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

22. *Symbols and Color Scheme:

Idem

Approved by:  
J. T. Jarman,  
Chief of Party

Respectfully submitted:  
Charles Hanavich,  
Topographic Engineer
COMPILATION REPORT  
Map Manuscripts T-8853 to 8856 Inclusive  
Area of the 2nd Radial Plot  
Project Ph-2(45)

26. Control:

Forty-one horizontal control stations were recovered and identified by the field parties for use in controlling the radial plot in the area of these four map manuscripts. Of this number, thirty-three of the objects selected for sub-stations could be identified with certainty on a majority of the photographs; however, the other eight sub-stations could only be seen on the photographs on which they were identified by the field party. The thirty-three sub-stations, which could be identified with certainty, were sufficient to control the radial plot.

Because of insufficient overlap 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-rc, 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 USNR 3rd order stations lying along the shore of the lake, which were not found to be destroyed, were plotted. This was done in order to facilitate their recovery by the hydrographic party if they were needed. The original descriptions for this 3rd order control were written prior to the time that the lake was impounded, and were therefore inadequate. These unrecovered stations were indicated by a dashed line triangulation station symbol, and a note pertaining to same was lettered in the margin of the manuscript.

A complete tabulation of the horizontal control stations shown on these four map manuscripts is contained on several sheets of Form M-2388-12, which are attached to this descriptive report.

27. Radial Plot:

These four map manuscripts, Nos. T-8853 to T-8856 inclusive, were combined into one radial plot known as Radial Plot No. 2, Project Ph-2(45). This radial plot was completed in the same manner as Radial Plot No. 1 which has been fully described under Item 27 of the "Descriptive Report, Map Manuscripts T-8849 to T-8852 Inc., Area of the 1st Radial Plot, Project Ph-2(45)".
28. Detailing:

These maps were compiled in accordance with instructions for Project Ph-2(45). Features and symbols were shown as indicated in Photogrammetry Instructions No. 10, 12, and 17.

The transforming printer at the Washington Office was not in proper adjustment at the time the photographs were printed, and they could not be oriented in their entirety at the compilation table when radially plotting various types of pass points. Enough pass points, however, had been established during the radial plot so that each chamber of each photograph could be separately oriented. For at least two of the chambers on each photograph it was found necessary to de-center the photograph radially to or from the chamber being oriented so that the radials to the pass points and horizontal control stations in the chamber would pass through their positions on the map manuscript. Detailing was accomplished in the following manner:

1. All photo hydro signals, and shoreline pass points were radially plotted. Because of difficulties which have arisen on this and other projects, and in order to insure the accuracy of photo hydro signals, the located positions were then verified by a supervisor, and all questionable signals were rejected. (Shoreline pass points of two radial intersections are shown with green, waterproof ink circles on the reverse side of the map manuscripts.)

2. The shoreline was detailed from those photographs on which it was clearly visible and on which the bluffs were displaced outward from the center. (It might be stated that there were cases, particularly at the heads of narrow coves where displaced banks, cliffs, and trees, and insufficient photograph coverage made it difficult to delineate the shoreline. In many of these places, stereoscopic vision could not be obtained. The shoreline in these areas was detailed after all photographs had been studied. It is, however, subject to minor changes by the hydrographic party.)

3. Pass points for use in detailing inshore planimetric features were located and the compilation of the sheet was completed.

4. A careful review was made of all radially plotted pass points and planimetric details.

Ozalid prints of the completed map manuscripts were furnished to the hydrographic party; however, it is recommended that they be used for reference purposes only. As many difficulties were encountered when transferring hydrographic signals and shoreline from distorted ozalid prints to boat sheets, it is hoped that the hydrographic party can be furnished boat sheets for their 1943 field work similar to those which were made for the Willamette River hydrography. (Photogrammetric Project Ph-13(46) and Hydrographic Project CS-323)
Because of insufficient photograph coverage, a small area in the northwestern part of T-8853 could not be completed to the limits of the map manuscript. In the area of T-8856 the nine lens photographs were supplemented by U. S. Army single lens photographs, Scale: 1:20000.

Whenever possible the stereoscope was used to aid 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 water line and from the 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 maps, which are being forwarded with the map manuscripts, were used to supplement the photographs:

- **Black and White Prints**—3 each—Bureau of Reclamation Index Maps Nos. 7, 8, and 9, Grand Coulee Dam.

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

- **Black and White Print**—Existing and Relocated Highways and Railroads, Scale 1"=4 miles.

30. **Mean High-Water Line:** (Lake Shoreline at the adopted plane of reference.)

A complete discussion of this feature may be found in Paragraph 7 of the "Field Inspection Report, Area of the First Radial Plot" which was forwarded on 13 February 1948.
The mean high-water line (Lake shoreline at the adopted plane of reference) is shown by a continuous, black, acid ink line, 008" in thickness, at a plane 1290.0 ft. above Mean Sea Level. There are no marsh areas bordering the shoreline.

31. Low-Water and Shoal Lines:

The field inspection unit did not indicate any low-water lines within the limits of these four map manuscripts.

Approximate shoal lines have been shown by a light, dashed, black acid ink line, as indicated by the field party.

32. Details Offshore from the Mean High-Water Line:

Several, small, rocky islands are the only details offshore from the Mean High-Water Line. Many rocks, adjacent to the shoreline, have been shown. (Refer to Paragraph 10 of the Field Inspection Report.)

33. Wharves and Shoreline Structures:

Refer to Paragraph 9 of the Field Inspection Report.

34. Landmarks and Aids to Navigation:

Form 567, recommending the following landmarks for charting is attached:

HOUSE, South Gable------------------T-8853
STACK, Black, (145 ft. high)--------T-8854
TANK, Wood, (40 ft. high)-----------T-8854

Form 567, recommending the charting of the following non-floating aids to navigation is attached:

Hells Gate Island 13 Light----------T-8853
Whitestone Creek 15 Light----------T-8853
Upper Hells Gate Daybeacon 14------T-8853
Moonshine Canyon 16 Light----------T-8853
Hlawerson Canyon 17 Light----------T-8854
Goat Pasture 18 Light-------------T-8854
Hawk Creek 20 Light---------------T-8855
Rock Island Daybeacon 19----------T-8855
Spokane River 22 Light------------T-8856
Three Mile 21 Light--------------T-8856
Fox Canyon 24 Light--------------T-8856
35. **Hydrographic Control:**

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

<table>
<thead>
<tr>
<th>Sheet No.</th>
<th>Signals Pricked by Field Parties</th>
<th>Signals Rejected</th>
<th>Photo hydro signals</th>
</tr>
</thead>
<tbody>
<tr>
<td>8853</td>
<td>84</td>
<td>23</td>
<td>61</td>
</tr>
<tr>
<td>8854</td>
<td>51</td>
<td>7</td>
<td>44</td>
</tr>
<tr>
<td>8855</td>
<td>48</td>
<td>3</td>
<td>45</td>
</tr>
<tr>
<td>8856</td>
<td>78</td>
<td>11</td>
<td>67</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. Most of the signals, which were rejected, were located in dense tree areas, or hidden by displaced cliffs or ridges, and could not be identified with certainty on enough photographs to establish strong positions. (The field party could not determine this point with alternate photographs.) Due to previous difficulties, exceptional care has been taken in pricking and radially plotting the photo hydro signals shown on these four 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 four map manuscripts, is attached to this descriptive report.

36. **Landing Fields and Aeronautical Aids:**

There are no landing fields or aeronautical aids in this area. There is however, a small private dirt runway at Lincoln.

37. **Geographic Names:**

Geographic Names are the subject of a special report, "Investigation of Geographic Names, Sheets 8849 to 8859 inclusive, Project Ph-2(45)" which has been submitted to the Washington Office by the field party. List of approved names attached to this Des' Rpt.

38. **Recoverable Topographic Stations:**

Copies of Form 524 are being submitted for all of the stations listed under Item 34, "Landmarks and Aids to Navigation". No other recoverable topographic stations were selected by the field party, or radially plotted at the compilation office. Form 524 filed in the Div. of Photogs, General Files.
39. **Junctions:**

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

40. **F. D. Roosevelt Lake Reservation Line:**

Please refer to Item 40 in the Descriptive Report for the 1st Radial Plot, Project Ph-2(45). Letter 7 Nov 1947. (Redrafted & revised.)

44. **Comparisons with Existing Topographic Surveys:**

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

45. **Comparisons with Nautical Charts:**

There are no nautical charts of the area.

Respectfully submitted,

J. Edward Deal Jr.
J. Edward Deal Jr.
Photogrammetric Engineer

Approved after additional comments were added:

Robert A. Earle
Chief of Party

: jr
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.

---

<table>
<thead>
<tr>
<th>NAME AND DESCRIPTION</th>
<th>LATITUDE</th>
<th>POSITION</th>
<th>DATUM</th>
<th>METHOD OF LOCATION</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>D. M. METERS</td>
<td>D. F. METERS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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<td>1</td>
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<td>1</td>
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<tr>
<td>Hells Gate Island 13 Lt.</td>
<td>47 55</td>
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<td>118 36</td>
<td>1777.5</td>
<td>1927</td>
<td>Radial Plot</td>
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<td>(68.0)</td>
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<td>Area not charted</td>
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<tr>
<td>Upper Hells Gate Daybeacon</td>
<td>47 55</td>
<td>63.3</td>
<td>118 32</td>
<td>1033.0</td>
<td>1927</td>
<td></td>
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<tr>
<td>T-8853</td>
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<td>(102.8)</td>
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<td>795.2</td>
<td>1927</td>
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</tr>
<tr>
<td>T-8853</td>
<td>(1664.4)</td>
<td>(250.2)</td>
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<tr>
<td>Kooskawina Canyon 16 Lt.</td>
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<td>118 32</td>
<td>117.7</td>
<td>1927</td>
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<tr>
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<td>(1129.1)</td>
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<td>Halferson Canyon 17 Lt.</td>
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<td>911.2</td>
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<td>(335.9)</td>
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<tr>
<td>Goat Pasture 18 Lt.</td>
<td>47 50</td>
<td>817.7</td>
<td>118 26</td>
<td>965.6</td>
<td>1927</td>
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</tr>
<tr>
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<td>(282.0)</td>
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<tr>
<td>Hawk Creek 20 Lt.</td>
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<td>118 21</td>
<td>1190.5</td>
<td>1927</td>
<td>Traverse</td>
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<td>(374.4)</td>
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<td>Rock Island Daybeacon 19</td>
<td>47 51</td>
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<td>1081.5</td>
<td>1927</td>
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<td>(165.6)</td>
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<tr>
<td>Spokane River 22 Lt.</td>
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<td>118 20</td>
<td>36.8</td>
<td>1927</td>
<td></td>
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<tr>
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<td>(101.1)</td>
<td>(1209.4)</td>
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<tr>
<td>Three Mile 21 Lt.</td>
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<td>1358.2</td>
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<td>760.7</td>
<td>1927</td>
<td></td>
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<td>(484.6)</td>
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<tr>
<td>Fox Canyon 24 Lt.</td>
<td>47 58</td>
<td>50.1</td>
<td>118 20</td>
<td>907.5</td>
<td>1947</td>
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<td>(1803.0)</td>
<td>(337.1)</td>
<td></td>
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</tr>
</tbody>
</table>

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.
TO BE CHARTED
TO BE DELETED

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

The positions given have been checked after listing.

<table>
<thead>
<tr>
<th>LOCALITY</th>
<th>NAME AND DESCRIPTION</th>
<th>LATITUDE D. M. METERS</th>
<th>LONGITUDE D. M. METERS</th>
<th>DATUM</th>
<th>METHOD OF LOCATION</th>
<th>DATE OF LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROOSEVELT LAKE</td>
<td>T-8853 HOUSE, South Gable</td>
<td>(1422.9)</td>
<td>(324.7)</td>
<td>E.A.</td>
<td>Radial</td>
<td>1927</td>
</tr>
<tr>
<td></td>
<td>T-8854 Stack, black (145 feet high)</td>
<td>47 56</td>
<td>430.3</td>
<td>118 32</td>
<td>920.6</td>
<td>Plot</td>
</tr>
<tr>
<td></td>
<td>T-8854 Tank, wooden (40 feet high)</td>
<td>47 49</td>
<td>1550.1</td>
<td>118 24</td>
<td>730.3</td>
<td></td>
</tr>
</tbody>
</table>

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.
Hydrographic Signal Sites
Project Ph-2(45)
Sheets 8853-8854-8855 & 8856

5301 Orange flag on stake in bush
5302 D/S of 2 pines, white banner
5302A White flag on forked tree. (Trans. from 8851-was 5176)
5303 White rag on greasewood
5304 Large lone pine, Orange Banner
5306 White wrapped pine
5307 Red and Orange stripe on stake
5308 Small bushy pine in clearing red flag
5309 Square orange banner on lone pine
5311 White flag on dead top pine
5313 White flag on pine
5316 N. gable of gray house
5317 White flag on point of rock below bluff
5318 Sq. White Signal Cl. on tree
5319 Orange banner on dead pine
5320 Orange rag on small pine
5322 Red flag on pine tree
5323 White flag on point of rock
5324 Lone pine, top of bluff
5325 Orange flag on small bush
5326 D/S of 2 pines on grass bank in slide area
5327 Red flag on pt. of rock
5328 Orange flag on pine
5329 White rag on greasewood bush
5330 Red strip on snag
5332 White strip on largest pine
5333 Orange wrapped pine
5334 D/S gable, tin roofed barn
5335 Tip of rock pinnacle
5336 White Cloth on dying pine
5337 Center of off-lying rock
5339 Large whitewashed rock
5340 Red and white strips on stake in outlying rock
5341 White rag on bush
5345 Orange Sig. Cl. on pine
5349 Red and white strips on stake in bush
5351 Orange Sig. Cl. on greasewood
5353 Lone Pine, back from shore
5355 Orange cloth on pine
5356 Prominent tall spindly pine
5357 Whitewashed point of island
5360 Dead top pine at side of old road
5361 Small pine in cove
5364 White Sig. Cl. on trimmed pine
5366 Red Sig. Cl. on pine
5367 White flag on pine nearest water
5368 Orange and red sig. cl. on stake
5369 Orange flag on pine
5370 Red and white strips on lath on island
5371 Orange and red strips on stake
5372  White cloth on pine
5373  Lone pine tree
5374  Orange Sig. Cl. on pine
5375  Bushy pine
5379  Small single pine
5381  White Sig. cloth on bush
5383  Red Sig. Cl. on bush
5385  Red and white strips on stake at N. edge of dry wash
5387  Yellow and white flag on stake in bush
5389  Red and white strips on stake in bush, side of road
5401A  White wrapped pine
5401  Whitewashed rock point
5402  Red and white strips on stake
5403  Red Sig. Cl. on pine
5405  White Sig. Cl. on lone pine
5406  Red wrapped spindly pine
5409  Red and white strips on lath
5410  Bushy pine at U/S end of slide
5411  White flag at inshore point of small cove
5412  Off-shore of 2 pines, White Sig. Cl.
5413  Red Sig. Cl. on Pine, 2m from H.W.L.
5414  Red Sig. Cl. on pine on fence
5415  White Sig. Cl. on pine on clay bank
5416  White Sig. Cloth on pine
5419  Red Sig. Cl. on pine at H.W.L.
5421  White Sig. Cl. on D/S pine
5422  Red cloth on pine
Orange Sig. Cl. on off-shore pine
White cloth on pine at H.W.L.
White Sig. Cl. on lone pine
Leaning tree, red cloth
White Signal Cloth on Pine
White Cloth on pine
Red Sig. Cl. on small pine
Red cloth on tree in rock
Bushy pine at upper side of brush patch
Orange Sig. Cloth on pine
White Sig. Cl. on pine nearest water
White cloth on pine in granite
Top of large pine on east side of draw
Outer tip of round rock, whitewashed
White Sig. Cl. on large pine tree
Small red banner D/S end isolated rock
Orange cloth on bush
Base of pine, trunk flagged white, Medium pine SE of 2 in draw
U/S gable of house
Base of lone pine, not flagged
Red wrapped trunk of pine
Red banner on greasewood bush
White Sig. Cl. on pine
White Sig. Cl. on greasewood
Red Sig. Cl. on D/S pine of 2
White Sig. Cl. on pine near float
D/S gable of blue roof house
5501  White Sig. Cloth on pine
5502  White Sig. Cloth on tuft top pine
5503  Red Sig. on pine
5505  White Sig. Cl. on live pine
5507  Red Sig. Cloth on lone pine
5509  White Sig. Cloth on pine on fence
5510  Red Sig. Cl. on pine
5511  Red Sig. Cl. on live pine
5512  White Sig. Cl. on pine
5513  White Sig. Cl. on tallest pine
5514  Red cloth on pine
5515  Red signal Cl. on pine
5516  White Sig. Cl. on South of 2 pines
5517  White Signal cloth on pine
5518  White Sig. Cl. on pine
5519  White Sig. Cl. on lone bush
5520  Red Sig. Cl. on large pine
5522  White Sig. Cl. on small single pine
5524  Red wrapped double pine
5526  Small white wrapped pine on slide
5528  Base of leaning pine, red flag
5530  Red cloth on pine
5532  White flag on pine
5534  Base of inshore of 2 trees
5536  Small fruit tree on point
5538  White Sig. Cl. on pine
5540  Red Signal Cloth on lone pine
Lone Pine on side hill
White Sig. Cl. on pine in basalt
White Sig. Cl. on pine
Sq. White banner on pine
Red wrapped pine
White wrapped pine
Red wrapped pine
White Sig. Cl. on pine
Red Sig. Cl. on pine
White Sig. Cl. on pine
Red Sig. Cl. on dead snag
Red and white strips on pine
White Sig. Cl. on bushy pine
White Sig. Cl. on pine
Base of leaning pine, redcloth
Forked pine, not flagged
White cloth on forked pine
Red Sig. Cloth on bushy tree
White flag on fence corner
Red Cloth on pine Sapline
Red signal on tree in draw
White Sig. Cl. on pine
White cloth on pine
Red signal cloth on pine on fence
White Signal Cloth on lone pine
North Easterly and tallest of 2 pines
5608 Red and white strips on stake in bush
5609 Red Cloth on forked top pine
5610 West gable of low building
5611 White Cloth on double pine
5612 Center of E. pier of bridge
5613 Center of W. pier of bridge
5614 West gable of unpainted barn
5615 Red Cloth on pine in draw
5616 White Sig. Cl. on pine
5617 White Sig. Cl. on pine
5619 Red Sig. Cl. on pine in granite
5621A White strips around thorn bush
5623 White Sig. cloth on center of round bush
5625 Red Sig. Cl. on bush
5626 Not used
5631 White cloth on pine
5633 Red Signal Cloth on Snag
5634 White rag on greasewood
5635 White cloth on snag
5636 Red Sig. Cl. on greasewood bush
5637 West gable of house
5638 White Sig. Cl. on pine
5639 Red Cloth on Snag
5640 Red Sig. Cl. on live pine
5641 White Sig. Cl. on bushy pine
5643 Red and White Strips on stake on Wreckage
5644 Red Signal Cloth on large lone tree
5645 White Sig. Cl. on tufted top pine
5646 White Signal Cl. on pine tree
5647 Red Sig. Cl. on Snag
5648 Red Sig. Cl. on D/S pine
5649 White Cloth on single pine
5650 White Sig. Cl. on pine
5651 Red Cloth on pine
5652 White Signal Cloth on small pine
5653 White Cloth on tall pine
5655 Red Sig. Cl. on live pine
5656 White Sig. Cl. on outer pine of clump
5657 White Sig. Cl. on forked bushy pine
5658 Red Sig. Cl. on large pine
5659 Red Sig. Cl. on offshore of 4 trees
5660 Red Sig. Cl. on offshore of 2 pines
5661 White Sig. Cl. on spindly pine
5662 White Sig. Cl. on small pine on point
5663 Red Sig. Cl. on tree
5664 Red Sig. Cl. on forked pine
5665 White Sig. Cl. on D/S of twin pines
5666 White Sig. Cl. on double pine
5667 Red Sig. Cl. on Dead Snag
5668 Red and white Sig. Cl. on pine
5669 Red Sig. Cl. on dead tree
5671 White Cloth on pine at point of woods
5672 White Sig. Cl. on U/S pine
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Names underlined in red are approved, 1/12/49, L. Hack.
Division of Photogrammetry
Review Report of
Shoreline Map Manuscripts T-8853 to T-8856
Area of the Second Radial Plot, Ph-2(h5)

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

Map manuscripts T-8853, T-8855, and T-8856 show the Grand Coulee Independent Grid. A note on the lower margin of map manuscript T-8855 states that this grid is in error (eastward about 3m). The grid was not removed during review, but a note was attached to each map manuscript to indicate that the grid is to be disregarded. This grid does not appear on previous or subsequent map manuscripts.

26. Control.—Unrecovered U. S. Bureau of Reclamation triangulation stations on this series of map manuscripts were plotted by their geographic positions or by state coordinates (Washington, North Zone) as an aid to the hydrographic party. They are shown by a dashed symbol.

The recovery date for recovered triangulation stations has been left on the map manuscripts to indicate that the coordinate positions have been converted from the Grand Coulee Dam Datum to geographic positions on the N. A. 1927 datum, or on Washington North Zone, coordinates.

A list of recovered and unrecovered stations (form M-2388-12) is attached to the descriptive report.

Coast and Geodetic Survey triangulation stations (adjusted from U. S. Bureau of Reclamation positions) were plotted on the map manuscripts during review, as follows:

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<td>Swede, I. S., 1935</td>
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<td>Hope, I. S. 1934</td>
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<td>Flanagan, I. S. 1934</td>
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<td>Fort, 1935</td>
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<td>Coyote, 1934</td>
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<tr>
<td>Halverson, I. S. 1934</td>
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<td>Pine Top, I. S. 1934</td>
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28. Detailing.—Several portions of the shoreline were altered on T-8853 to conform to photographic and field data. The map manuscripts for the second radial plot meet the required accuracy with respect to shoreline, and near-shore highway delineation. Interior detail is true in general, but less accurate in minor details.
T-8856

The sheet on T-8856 was subject to corrections as shown on T-700 (1926-29). These corrections were transferred to T-7200 from graphic control survey LR-7-48 (field number), which was subsequently destroyed. MZ 6-15-50
37. Geographical Names.—A separate list for each map manuscript (compiled by the Geographical Names Section) is attached to this compound descriptive report.

43. Comparison with Previous Topographic and Contemporary Hydrographic Surveys.—

There are no previous surveys of the area of Ph-2(h5), and the hydrographic survey is in process.

44. Comparison with Existing Quadrangles.—

U.S.E. Davenport, 1:125,000 rep. 1939 (Tactical).

This is a planimetric map which shows the land net, roads, railroads, drainage, county lines, and settlement names.

Except for the land net and boundary lines, the present survey supersedes the quadrangle for their common areas.

Reviewed by: Under the direction of

Lena T. Stevens  A. V. Grifflitt
T-8953 30 Dec. 1948 Chief, Review Section
T-8954  4 Jan. 1949
T-8955  6 Jan. 1949
T-8956 13 Jan. 1949

APPROVED BY:

T. A. Edmonston  Chief, Nautical Chart Branch
Tech. Assist. to the Chief, Division of Photogrammetry

W. M. Krige  Chief, Div. of Coastal Surveys
Chief, Div. of Photogrammetry