# Descriptive Report

**Type of Survey:** Shoreline & Topographic  
**Field No.:** Ph-62  
**Office No.:** T-9520

## Locality
- **State:** Washington  
- **General Locality:** Grays Harbor  
- **Locality:** Aberdeen

**1950-57**

**Chief of Party:**  
C.W. Clark, Chief of Field Party  
E.H. Kirsch, Baltimore Photo. Office

**Library & Archives**

**Date:** August 14, 1962
DATA RECORD

T -9520 (Shoreline)

Project No. (III): Ph-62

Quadrangle Name (IV):

Field Office (II): Aberdeen, Washington

Chief of Party: Charles W. Clark

Photogrammetric Office (III): Baltimore, Mo.

Officer-in-Charge: E. H. Kirsch

Instructions dated (II) (III): 20 March 1951

Letter No. 71-aal, dated 3 August 1951

Letter No. 73-l-mkl, Horizontal Control, dated 17 Aug. 1951

Instructions - Supplement 1, dated 15 February 1952

Letter No. 73-mkl, Horizontal and Vertical Control, dated 13 May 1952

Method of Compilation (III): Air Photographic (Multiplex)

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:10,000

Scale Factor (III): 1:10,000

Date received in Washington Office (IV):

APR 21 1955

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 9-10-55

Publication Scale (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

Mean sea level except as follows:
Elevations shown as (a) refer to mean high water
Elevations shown as (b) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): VISTA, 1940

Lat.: 46° 57' 03.621"

Long.: 123° 48' 03.060"

Adjusted

Plane Coordinates (IV):

State:

Zone: Washington (South)

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office,
or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

Form T. Page 1
Areas contoured by various personnel
(Show name within area)
(I) (III)
DATA RECORD

Field Inspection by (III): Charles H. Bishop  
Date: 20 November 1952

Planetable contouring by (III):  
Date:

Completion Surveys by (III):  
Date:

Mean High Water Location (III) (State date and method of location):  
11 July 1950

Projection and Grids ruled by (IV): Jack Allen  
Date: 9 Sept. 1952

Projection and Grids checked by (IV): H. D. Wolfe  
Date: 6 Oct. 1952

Control plotted by (III): A. K. Heywood  
Date: 28 April 1953

Control checked by (III): J. D. McEvoy  
Date: 30 April 1953

Radial Plot or Stereoscopic  
Control extension by (III):  
Date:

Planimetry E. H. Taylor  
Date: 6 May 1953

Stereoscopic Instrument compilation (III):  
Date:

Manuscript delineated by (III): C. A. Lipscomb  
Date: 8 May 1953

Photogrammetric Office Review by (III): D. M. Brant  
Date: 19 April 1955

Elevations on Manuscript  
checked by (II) (III):  
Date: ---
PHOTOGRAPHS (III)

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<tr>
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<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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<tbody>
<tr>
<td>50-0-1763 thru 1765</td>
<td>7/11/50</td>
<td>1600</td>
<td>1,244,000</td>
<td>3.5' above MLLW</td>
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<tr>
<td>1811 thru 1814</td>
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<td>1625</td>
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<td>3.6' above MLLW</td>
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<tr>
<td>1820 thru 1822</td>
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<td>3.6' above MLLW</td>
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Tide (III) From predicted tables

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<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
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Diurnal

<table>
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<th>Ratio of Ranges</th>
<th>Mean Range</th>
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</table>

Reference Station: Aberdeen Washington
Subordinate Station:
Subordinate Station:

Washington Office Review by (IV): A. T. Hall
Final Drafting by (IV): A. Boldin
Drafting verified for reproduction by (IV): A. T. Hall

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 16.6
Shoreline (More than 200 meters to opposite shore) (III): 7.6
Shoreline (Less than 200 meters to opposite shore) (III): 16.6

Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 92
Number of BMS searched for (II): 21
Number of Recoverable Photo Stations established (III): 18
Number of Temporary Photo Hydro Stations established (III): 21

Remarks:

Date: AUGUST 1958
Date: 4-19-61
DATA RECORD

Topographic
T-9520

Project No. (II): Ph-62(49) Quadrangle Name (IV):

Field Office (II): Aberdeen, Washington Chief of Party: Charles W. Clark

Photogrammetric Office (III): Baltimore, MO Officer-in-Charge: E. H. Kirsch

Instructions dated (II) (III): 20 March 1951 Copy filed in Division of
Letter No. 71-34, dated 3 August 1951 Photogrammetry (IV)
Letter No. 731-mk1, Horizontal Control, dated 17 August 1951
Instructions - Supplement 1, dated 15 February 1952
Letter No. 73-mk1, Horizontal and Vertical Control, dated 13 May 1952

Method of Compilation (III): Air Photographic (Multiplex)

Manuscript Scale (III): 1:17,000 Stereoscopic Plotting Instrument Scale (III): 1:17,000

Scale Factor (III): 1.000

Date received in Washington Office (IV): Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 9/10/58

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): N.A. 1927 Vertical Datum (III):

Mean sea level except as follows:
Elevations shown as (26) refer to mean high water
Elevations shown as (3) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): VISTA, 1940

Lat.: 47° 51' 03.521" Adjusted
Long.: 123° 48' 03.06"

Plane Coordinates (IV):

State: Washington Zone: (South)

Y =
X =

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office,
or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.
DATA RECORD

Field inspection by (II): Charles H. Bishop  
Date: 20 November 1952

Planetable contouring by (II):

Completion Surveys by (II): \textcolor{red}{J} \textcolor{red}{E} \textcolor{red}{G} \textcolor{red}{A} \textcolor{red}{N} \textcolor{red}{N} \textcolor{red}{E} \textcolor{red}{N} \textcolor{red}{K} \textcolor{red}{I} \textcolor{red}{N} \textcolor{red}{S}  
Date: 17 July 1957

Mean High Water Location (III) (State date and method of location):
11 July 1950 - Photogrammetric

Projection and Grids ruled by (IV): Jack Allen  
Date: 9 September 1952

Projection and Grids checked by (IV): H. D. Wolf  
Date: 6 October 1952

Control plotted by (III): A. K. Heywood  
Date: 1 April 1953

Control checked by (III): E. H. Taylor  
Date: 2 April 1953

Radial Plot or Stereoscopic: E. L. Rolle  
Date: 28 April 1953

Control extension by (III):

Stereoscopic Instrument compilation (III):
  Planimetry E. L. Rolle  
  Date: 26 June 1953
  Contours E. L. Rolle  
  Date: 26 June 1953

Manuscript delineated by (III): E. L. Rolle  
Date: 26 OCT. 1953

Photogrammetric Office Review by (III): D. M. Brant  
Date: 30 June 1955

Elevations on Manuscript checked by (II) (III):
D. M. Brant  
Date: 15 June 1955
PHOTOGRAPHS (III)

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<th>Scale</th>
<th>Stage of Tide</th>
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<td>51-0-7163 thru 7169</td>
<td>6/16/51</td>
<td>13:35</td>
<td>1:40,000</td>
<td>4.9' above MLW</td>
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<tr>
<td>51-0-7154 thru 7158</td>
<td>6/16/51</td>
<td>13:24</td>
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<td>4.9' &quot; &quot;</td>
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See page 4 of the Descriptive Report for shoreline survey T-9520 for 1:24,000 scale photography.

Tide (III)

From Predicted Tide Tables

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<tr>
<th>Ratio of</th>
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<tr>
<td>Range</td>
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<tr>
<td>- 7.6</td>
<td>9.9</td>
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</table>

Date: AUGUST 1958

Reference Station: Aberdeen, Washington

Subordinate Station:

Subordinate Station:

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 46
Shoreline (More than 200 meters to opposite shore) (III): 16.6
Shoreline (Less than 200 meters to opposite shore) (III): 7.6

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 92
Number of BMs searched for (II): 10

Number of Recoverable Photo Stations established (III): 18
Number of Temporary Photo Hydro Stations established (III):

Remarks:

Third-order triangulation stations established: 13
Fourth-order supplemental stations established and identified: 1
SUMMARY

TO ACCOMPANY DESCRIPTIVE REPORT T-9520

Topographic Map T-9520 is one of 14 similar maps in Project PH-62. It covers from East Hoquiam East to Cosmopolis on the Chehalis River.

This is a multiplex project in advance of Hydrographic surveys to be made in the area.

The field operations preceding compilation included complete field inspection. The establishment of some additional horizontal control and the determination of elevations necessary to control a multiplex project vertically.

Both a topographic and a shoreline survey was made of this area.

The topographic compilation was at a scale of 1:17,000. The manuscript consists of one vinylite sheet 75 in Latitude and 7½ in Longitude.

The shoreline survey consisted of one sheet T-9520 at a scale of 1:10,000. The sheet is 3 3/4' in Latitude and 7½' in Longitude.

The entire map was field edited. Contours do not meet the National Standards of Map Accuracy. It is to be published by the Geological Survey as a standard topographic quadrangle at a scale of 1:24,000 without an accuracy statement.

The registered copies under T-9520 will include cronar film positives of the topographic manuscript and the shoreline map.
<table>
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<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR Y-COORDINATE</th>
<th>LONGITUDE OR X-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 FEET. OR METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN FEET. OR METERS</th>
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<td>Wisk, 1940</td>
<td>G-5735 p. 732</td>
<td>&quot;</td>
<td>46 48</td>
<td>32.107</td>
<td>678.6</td>
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<td>&quot;</td>
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<td>733.2</td>
<td>1138.9</td>
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<td>Water Tank (Main), 1940</td>
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<td>South Aberdeen, E.C.</td>
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<td>Water Tank Finial (Main), 1940</td>
<td>G-5735 p. 740</td>
<td>&quot;</td>
<td>46 57</td>
<td>56.746</td>
<td>1722.0</td>
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<td>Miller Cedar Lumber Co.</td>
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<td>Train Stack (Black)</td>
<td>G-5735 p. 740</td>
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<td>46 58</td>
<td>15.853</td>
<td>489.5</td>
<td>1363.3</td>
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<td>1940</td>
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<td>South Aberdeen, Bay City Lumber Co. Water Tank Finial, 1940</td>
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Pt. 304800S, Meter
COMPUTED BY: A. K. Heywood
DATE 9 March 1953
CHECKED BY: E. L. Rolle
DATE 12 March 1953
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<th>DATUM CORRECTION</th>
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<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<td>ABERDEEN, FERN HILL CEMETERY, MAUSOLEUM CHIMNEY, 1941</td>
<td>G-5735 p. 743</td>
<td>1927</td>
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<td>16 58 0.76</td>
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<td>16 58 44.620</td>
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<td>16 58 0.597</td>
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<td>COSMOPOLIS, SOUTH TRANSMISSION TOWER 1940</td>
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<td>16 57 19.911</td>
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<td>RED BRICK STACK (CAT.)</td>
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<td>COOSMOPOLIS NORTH TRANSMISSION</td>
<td>TOWER 1940</td>
<td>46.57 35.947</td>
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<td>CHEHALIS RIVER BRIDGE (U.S. HIGHWAY 101) LIGHT HOUSE CENTER SPAN (RAIL), 1940</td>
<td>46.58 27.035</td>
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1 FT. = 3048006 METER

COMPUTED BY: E. H. Taylor
DATE: 10 March 1953
CHECKED BY: E. L. Bolle
DATE: 11 March 1953
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<td>G-5735 p. 711</td>
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1 FT. = 0.03048006 METER

COMPUTED BY E. H. Taylor DATE 10 March 1953
CHECKED BY E. L. Rolle DATE 11 March 1953

COMM-DC-57843
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</table>

1 FT = 0.3048006 METER

COMPUTED BY: D. M. Brant     DATE: 10 March 1955

CHECKED BY: Henry P. Eichert  DATE: 10 March 1955
Field Inspection Report:
See Descriptive Report for topographic survey T-9519 to be submitted later.

Photogrammetric Plot Report:
No bridging was done using the 1:10,000 scale photographs. Nevertheless, reference should be made to the Photogrammetric Plot Report for Surveys T-9519 and T-9520, which will be bound with the Descriptive Report for topographic survey T-9519.

31. **DELINEATION**
Refer to item 31 of the Compilation Report for shoreline - Survey T-9519.

32. **CONTROL**
Refer to Photogrammetric Plot Report, item 25.

33. thru 34.
Inapplicable.

35. thru 36.
Refer to the Compilation Report for shoreline - Survey T-9519.

37. **LANDMARKS AND AIDS**
Landmarks and aids have been reported on Forms 567.

38. **CONTROL FOR FUTURE SURVEYS**
There are eighteen Recoverable Topographic Stations in this survey. The field party established eleven stations and identified one station, STACK, 1952, to be located by multiplex. Two stations, AB, 1940 and BIN (1940), 1952, previously established in 1940 were identified.
38. CONTROL FOR FUTURE SURVEYS (cont'd)

AB, 1940 was verified by multiplex. BIN, 1952 was not verified and was relocated by multiplex. Four non-floating aids east of survey T-9520 were identified. However, only CHEHALIS RIVER LIGHT 2, 1952 was located by multiplex.

A list of recoverable topographic stations has been prepared and included in paragraph 49, "Notes For the Hydrographer".

Forms 524 were transmitted to the Washington office on 19 April 1955.

39. JUNCTIONS

Satisfactory junction was made with shoreline survey T-9519 to the west.

40. HORIZONTAL AND VERTICAL CONTROL

Refer to item 23 of the Photogrammetric Plot Report.

Tidal 6, is approximately the same position as Tidal 2, and is not shown on this manuscript.

41. thru 45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

AMS V 791, sheet 1277 IV Aberdeen Quadrangle, scale 1:50,000, First edition (AMT1) 1942; (AMS 2) 1947.

47. COMPARISON WITH NAUTICAL CHARTS

Harbor Chart No. 6195, scale 1:10,000, published July 1949 (First edition) corrected 4/21/52.

Items to be applied to Nautical Charts immediately: None.

Items to be carried forward: None.

*It should be noted that there is a new highway bridge under construction. The new bridge crosses the Chehalis River and is west of the Northern Pacific R. R. bridge in the vicinity of Aberdeen. The center line of the bridge is shown on the manuscript.

Respectfully submitted
20 April 1955

E.H. Brack
Br. H. Kirsch, Comdr. USCG&GS
Officer in Charge
Baltimore Photo. Office

Donald M. Brant
Carto. (Photo.)
COMPILATION REPORT
Project Ph-62
T-9520 (Topographic)


31. Delineation

Refer to item 31 of the Compilation Report for Topographic Survey T-9519.

Clouded areas in models 51-0-7164 - 7165 and 51-0-7165 - 7166 were supplemented by the 1:24,000 scale photography.

Two stadia traverses were run along portions of roads which were not visible on the photography because of heavy woods.

Stadia traverse "D" on the back of Field Photo 51-0-7157 was plotted graphically to locate the road northeast of Aberdeen.

With the exception of the spur line, stadia traverse "G" on the back of Field Photo 51-0-7167 was computed and plotted to locate the road in the southwest corner of the manuscript. It also, located a quarter section corner (¼ cor. ¼ Township 16 North, Range 10 West) on Topographic Survey T-9519. Photo Point No. 2 at the end of the spur line would not check the plotted position from the traverse. The spur line was laid out graphically and adjusted to Photo Point No. 2.

32. Control

Refer to the Photogrammetric Plot Report item 23 for the adequacy of control.

Vertical control was adequate.

33. Supplemental Data

Map of the City of Hoquiam Grays Harbor County, Washington, scale 1 inch = 800 feet was used in compiling the city limits of Hoquiam. Map of Aberdeen Washington copyrighted and published by Kroll Map Company Inc., Seattle, Washington. This map was used in compiling the city limits of Aberdeen.

Flat of Cosmopolis, Washington, dated March 1916, scale 1 inch = 200 feet used in compiling city limits of Cosmopolis.

35. Land Plats:

Township No. 17, North Range No. 9, West Willamette, Meridian, dated May 23, 1883.

Township No. 16, North Range No. 9, West Willamette Meridian, dated March 6, 1882 and April 25, 1895.

Map of Grays Harbor County, Washington (Land lines, Project Ph-62).
34. CONTOURS AND DRAINAGE

Refer to item 34 of the Compilation Report for Topographic Survey T-9519.

35. thru 37.

Refer to the corresponding items of the Compilation Report for the shoreline survey of T-9520.

38. CONTROL FOR FUTURE SURVEYS

Refer to item 38 of the Compilation Report for shoreline survey for T-9520.

39. JUNCTIONS

Satisfactory junction was made with Topographic Survey T-9519 to the west.

40. HORIZONTAL AND VERTICAL ACCURACY

Refer to item 25 of the Photogrammetric Plot Report.

* The possibility of sub-normal vertical accuracy has been noted on the discrepancy overlay.

41. BOUNDARIES

Land lines as shown in Township 17 North, Range 9 and 10 West are fair. Some of the distances between section corners identified by Field Inspection do not agree with distances given on the land plats. In such cases the field identified positions were used.

In township 16 North, Range 9 and 10 West, the land lines fit well up to section $\frac{11}{6}$. Offsets as given on the land plats were laid off along the lines between Township 16 and 17 north. From section corner $\frac{31}{6}$ 32 west, the plat gives the distance as 100 chains. However, measuring east from section corner $36\frac{2}{1}$, the land plat distance of 80 chains there is a gap between the two measurements of 100 meters. The 80 chain measurements from $36\frac{2}{1}$ was used since this line drawn straight follows closely to a cleared timber line and goes through $\frac{1}{4}$ Corner 17.
h2. thru h7

Refer to the corresponding items of Compilation Report for the Shoreline survey of T-9520.

Respectfully submitted
30 June 1955

Donald M. Brant

Approved and forwarded
7/29/55

Joseph Steinberg

E. H. Kirsch, Comdr. USG&GS
Officer in Charge
Baltimore Photo Office
PHOTOGRAMMETRIC OFFICE REVIEW
T. 9520 (Topo)

1. Projection and grids
2. Title
3. Manuscript numbers
4. Manuscript size

CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy
6. Recoverable horizontal stations of less than third-order accuracy (topographic stations)
7. Photo hydro stations
8. Bench marks
9. Plotting of sextant fixes
10. Photogrammetric plot report
11. Detail points

ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline
13. Low-water line
14. Rocks, shoals, etc.
15. Bridges
16. Aids to navigation
17. Landmarks
18. Other alongshore physical features
19. Other alongshore cultural features

PHYSICAL FEATURES
20. Water features
21. Natural ground cover
22. Planetary contours
23. Stereoscopic instrument contours
24. Contours in general
25. Spot elevations
26. Other physical features

CULTURAL FEATURES
27. Roads
28. Buildings
29. Railroads
30. Other cultural features

BOUNDARIES
31. Boundary lines
32. Public land lines

MISCELLANEOUS
33. Geographic names
34. Junctions
35. Legibility of the manuscript
36. Discrepancy overlay
37. Descriptive Report
38. Field inspection photographs
39. Forms

Reviewer

Supervisor/Review Section or Unit

Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler
Supervisor

Remarks:
PHOTOGRAHAMMETRIC OFFICE REVIEW


CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy  6. Recoverable horizontal stations of less than third-order accuracy (topographic stations)  7. Photo hydro stations  8. Bench marks

ALONGSHORE AREAS
(Nautical Chart Data)

PHYSICAL FEATURES

CULTURAL FEATURES

BOUNDARIES
31. Boundary lines  32. Public land lines

MISCELLANEOUS

40. Reviewed by: [Signature]
Reviewer

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

43. Remarks:

[Signatures]
Catherine A. Lipscomb  Supervisor

M-2623-12
GEOGRAPHIC NAMES LIST

Aberdeen
Aberdeen Junction
Alexander Young School
"B" Street
Bear Gulch
Boons Ranch
Boone Street
Chapin Creek
Charlott Creek
Chehalis River
Cosmopolis
Cow Point

East Aberdeen
East Hoquiam
Elliott Slough
Falls Creek
Florence Creek
Fry Creek
Grays Harbor
Hoquiam River
Junction City
Market St

Newkah Creek
North Channel
Northern Pacific
Northern Pacific (Moclips Branch)
North Fork Johns River
Northern Pacific (Ooosta Branch)
Park St.

Remnie Island

Simpson St. Ave (on manuscript)
South Aberdeen
South Channel
Stewart Creek

* Union Pacific
  U. S. 101
  U. S. 410

* From Nautical Chart 6195
** From Field Inspection
48. GEOGRAPHIC NAMES LIST (cont'd)

    Wash. State 9
    Wash. State 13
    Wash. State 13A
    West Blvd.
    Wilson Creek
    Wishkah Blvd.
    Wishkah River
    Wishkah Rd.
    Wishkah St.
    Wood St.

Highway Nos. 13-13A-9-410 and 101

Names approved
6-13-52
(originally 9-16-55)
I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by

Henry F. Richart

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<td>Chehalis River Range 1</td>
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<td>LT &quot;57&quot;</td>
<td>Grays Harbor North Chan. Range 7 Front Daybeacon, 1952</td>
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<td>LT &quot;2&quot;</td>
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This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. 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.
I recommend that the following objects which have not been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by Henry F. Bichert

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<th>SIGNAL NAME</th>
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<td>114° 14'</td>
<td>123° 09'</td>
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<td>Aberdeen, Harbor Plywood Co. water tank (Green), 1940</td>
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<td>46° 58'</td>
<td>114° 14'</td>
<td>123° 09'</td>
<td>136° 57'</td>
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<td>1940</td>
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<td>TOWER</td>
<td>Light Atop Tower (△ Aberdeen, Station KEW Radio Mast, 1952)</td>
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<td>136° 57'</td>
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<td>1940</td>
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<td>114° 14'</td>
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<td>123° 09'</td>
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<td>1940</td>
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<td>136° 57'</td>
<td>T = 9520</td>
<td>1940</td>
<td>x</td>
</tr>
<tr>
<td>TANK</td>
<td>South Aberdeen, Bay City Lumber Co. Water Tank Final, 1940</td>
<td>46° 57'</td>
<td>114° 14'</td>
<td>123° 09'</td>
<td>136° 57'</td>
<td>T = 9520</td>
<td>1940</td>
<td>x</td>
</tr>
<tr>
<td>TOWER</td>
<td>Cosmopolis, North Transmission Tower, 1910</td>
<td>46° 57'</td>
<td>114° 14'</td>
<td>123° 09'</td>
<td>136° 57'</td>
<td>T = 9520</td>
<td>1940</td>
<td>x</td>
</tr>
<tr>
<td>TOWER</td>
<td>Cosmopolis South Transmission Tower, 1910</td>
<td>46° 57'</td>
<td>114° 14'</td>
<td>123° 09'</td>
<td>136° 57'</td>
<td>T = 9520</td>
<td>1940</td>
<td>x</td>
</tr>
<tr>
<td>STACK</td>
<td>East Hoquiam, Rayonier Pulp Mill Tall Concrete Stack (RAYI), 1940</td>
<td>46° 58'</td>
<td>114° 14'</td>
<td>123° 09'</td>
<td>136° 57'</td>
<td>T = 9520</td>
<td>1940</td>
<td>x</td>
</tr>
<tr>
<td>STACK</td>
<td>Aberdeen, Donovan Lumber Co. Red Brick Stack (DON), 1940</td>
<td>46° 57'</td>
<td>114° 14'</td>
<td>123° 09'</td>
<td>136° 57'</td>
<td>T = 9520</td>
<td>1940</td>
<td>x</td>
</tr>
<tr>
<td>STACK</td>
<td>Aberdeen, American Plywood Co. Stack (CONCRETE), 1940</td>
<td>46° 58'</td>
<td>114° 14'</td>
<td>123° 09'</td>
<td>136° 57'</td>
<td>T = 9520</td>
<td>1940</td>
<td>x</td>
</tr>
</tbody>
</table>

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating objects to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by
I recommend that the following objects which have not been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by Henry P. Eichert

<table>
<thead>
<tr>
<th>State</th>
<th>Washington</th>
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<tr>
<td>Charting Name</td>
<td>Description</td>
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<tr>
<td>TOWER</td>
<td>Weather Tower (○ TOWER, 1952)</td>
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<tr>
<td>STACK</td>
<td>Aberdeen, Anderson Mill, red brick Stack (SBR), 1940</td>
</tr>
<tr>
<td>STACK</td>
<td>Aberdeen, Saginaw Shingle Co. Stack, 1940</td>
</tr>
</tbody>
</table>

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets.
For the Field Edit Report and the Review Report see
the Descriptive Report for the topographic manuscript.
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be the charts indicated. The positions given have been checked after listing by Charles H. Bishop.

<table>
<thead>
<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
<th>HABBO CHART</th>
<th>INSHORE CHART</th>
<th>OFFSHORE CHART</th>
<th>CHARTS AFFECTED</th>
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</thead>
<tbody>
<tr>
<td>TANK</td>
<td>Wooden water tank (Elev.)</td>
<td>GREG</td>
<td>46 59.0</td>
<td>123 50.9</td>
<td></td>
<td>Triangulation 1927</td>
<td>1940</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>6195</td>
</tr>
<tr>
<td>TANK</td>
<td>Wooden water tank (Elev.)</td>
<td>46 57.8</td>
<td>123 49.9</td>
<td></td>
<td></td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>STACK</td>
<td>Red brick stack</td>
<td>BON</td>
<td>46 58.3</td>
<td>123 48.6</td>
<td></td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>TANK</td>
<td>Wooden water tank (Elev.)</td>
<td>AND</td>
<td>46 58.3</td>
<td>123 48.6</td>
<td></td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>TOWER</td>
<td>Skeleton steel radio tower</td>
<td></td>
<td>46 58.5</td>
<td>123 48.5</td>
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<td>*</td>
<td>*</td>
<td>*</td>
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</tbody>
</table>

* These two features do not appear on Chart 6195 but they were evidently recommended as landmarks as the Reviewer has them indicated.
The first three objects shown on this form have been destroyed and the last two are not prominent.

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. 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.
T-9520 (Shoreline)

49. NOTES FOR THE HYDROGRAPHER

Refer to item 49 of the Compilation Report for T-9519 (Shoreline) A set of photographs have been prepared for hydrography and are forwarded herewith.

The following is a list of recoverable topographic stations which may be used for hydrography.

| BMQ 285, 1952 | STACK 1952 |
| TOWER, 1952 | AB 1940 |
| STACK, 1952 | FIN (1940 1952) |

| GRAYS HARBOR NORTH CHANNEL RANGE | 8 FRONT | DAYBEACON, 1952 |
| " | " | 8 REAR |
| " | " | 9 FRONT |
| " | " | 9 REAR |
| " | " | 7 FRONT |
| " | " | 7 REAR |
| " | " | 10 FRONT |
| " | " | 10 REAR |

CHEHALIS RIVER LIGHT 2, 1952
51. METHODS.

All roads were ridden out to visually check positions of all features that were mapped and the ones recommended to be mapped. The majority of the new buildings were added to the field edit sheet by scaled distances that were paced from the nearest mapped feature. Where this method was not feasible, buildings, roads and other new features were located by standard planar methods. Due to the amount of triangulation in the area, the position of the planar was always located by resection for all shoreline, alongshore and offshore features that were to be added or corrected. Some contours and elevations were checked using standard planar traverse methods or by a scaled distance, vertical angle and tangent function. A note of explanation has been given in some notes to the Reviewer explaining which elevations were obtained by the scaled distance method.

Field edit information is shown as follows:
One (1) double weight print, 1: 20,000 scale, cut into a north and south half on which all interior features were inspected and corrected where necessary.

One (1) double weight print, 1: 20,000 scale, used for checking some contours, points of elevations and as a junction sheet. Attached to this print are some notes that might be an aid in a review of the work.

One (1) single weight shoreline print, 1: 10,000 scale with some notes thereon.

A portion of a double weight shoreline print, 1: 10,000 scale, used for the addition, correction and deletion of shoreline features east of the old Chehalis River Bridge (now removed) which was the eastern limit of the 1956 hydrography.

All photographs used on field edit have been cross referenced to the field edit sheets.

All additions and corrections made on the field edit prints have been shown with red ink; with green ink being used for all deletions. Additions and corrections made on the photographs and answers on the discrepancy print have all been shown with violet ink.

No legend is shown except a note on the discrepancy print describing the color ink used thereon.

52. ADEQUACY OF Compilation.

The compilation was very good considering the extent of the field inspection. Very few features were overlooked by the Compiler and the compilation will be complete with the application of the field edit data.
53. MAP ACCURACY.

The horizontal accuracy of all features checked was found to be relatively good. Some changes in the shoreline are shown, but these are mostly due to erosion and the pumping in of spoil.

54. RECOMMENDATIONS.

None offered.

55. EXAMINATION OF PROOF COPY.

Mr. Clarence S. Monson, Associate City Engineer, City Hall, Aberdeen, Washington has consented to examine a proof copy of the map manuscript. Mr. Monson is familiar with the area and it is believed he is well qualified to make the examination.

56. Junction strips along the north, east and south border of this map have been furnished by the Geological Survey. The contour junction will be correct at the quadrangle limits except for very minor changes that have been noted on the junction sheet.

Approved and forwarded: 

V. Ralph Sobieralski
LORD C&S Survey
Officer in Charge

Respectfully submitted,
July 17, 1957

Elgan T. Jenkins
Cartographer
REVIEW REPORT T-9520
TOPOGRAPHIC
August 15th 1958

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

<table>
<thead>
<tr>
<th>Survey Number</th>
<th>Scale</th>
<th>Year</th>
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</thead>
<tbody>
<tr>
<td>H-334</td>
<td>1:221,360</td>
<td>1852</td>
</tr>
<tr>
<td>3154</td>
<td>1:10,000</td>
<td>1911</td>
</tr>
<tr>
<td>6809</td>
<td>1:10,000</td>
<td>1940</td>
</tr>
</tbody>
</table>

This manuscript supersedes the above surveys for purposes of nautical charting.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Aberdeen    First Edition 1942    AMS

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made between this survey and hydrographic survey H-8293 dated 1956. This survey did not extend beyond the old bridge just east of the mouth of the Wishkah River.

The surveys are in agreement except for the following:

1. Differences in location of the MHWL exist particularly in the vicinity of Rennie Island. This is due to the changes made by the field editor subsequent to hydrography.

2. The wrecks just offshore south of the U. S. Naval Reservation were field edited on photo 50-0-1764 in 1957 and shown to bare 5' at MHW.

   The hydrographic survey dated 1956 shows these wrecks to be awash at MHW.

3. Just southeast of the area mentioned above a portion of the aband. trans. line which runs due east was recommended to be deleted during field edit. It has been shown on the boat sheet and the smooth sheet.

   At the time of this review the smooth sheet had not been verified.

65. COMPARISON WITH NAUTICAL CHARTS:


Range lights for ranges 2 & 3 shown on the charts and not on the manuscript were added to the chart from "Notice to Mariners".
Bridge data on the new bridge across Chehalis River adjacent to the Union Pacific R. R. bridge differs from that on the manuscript. The manuscript data was furnished by the field editor.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

The vertical accuracy of this manuscript was not checked. This is as per instructions dated 16 August 1956. It will be published without a vertical accuracy statement.

The horizontal accuracy was checked during field edit and found to be satisfactory.

Refer to general statements relative to the contouring of this project in item 66 of Review Report T-9514.

This manuscript complies with all instructions and may be used as a base for nautical chart construction.

67. SHORELINE SURVEYS

Shoreline manuscript T-9520 scale 1:10,000 covers that portion of Grays Harbor and Chehalis River as shown on the topographic manuscript. The surveys are in agreement.

Reviewed by
A.K. Heywood

Approved
Chief, Review Section
Photogrammetry Division

Chief, Nautical Chart Branch
Charts Division

Chief, Photogrammetry Division

Chief, Coastal Surveys Division
NOTES TO THE VERIFIER:

During the comparison by this reviewer of the manuscript and the hydrographic survey No. 8293 it was noted that many of the piles etc. shown on the boat sheet do not appear on the smooth sheet. The smooth sheet was not verified at the time of comparison.

The boat sheet and the manuscript are now in agreement except as noted in Item No. 64 of the Review Report.

The field edit sheet of the shoreline survey T-9520 mentions that a submerged cable exists across the bridge channel near the new bridge over Chehalis River. No location was furnished.
## NAUTICAL CHARTS BRANCH

### SURVEY NO. T-9520

#### Record of Application to Charts

<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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<tbody>
<tr>
<td>5-20-31</td>
<td>18500 (6002)</td>
<td><em>P. L. M. F. Schuman</em></td>
<td>Before After Verification and Review H2O</td>
</tr>
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</tr>
</tbody>
</table>

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.