## Descriptive Report

**Type of Survey:** Topographic & Shoreline  
**Field No.:** Ph-62  
**Office No.:** T-9635  
**State:** Washington  
**General Locality:** Willapa Bay  
**Locality:** Tokeland - Hawks Point to Goose Point  
**Dates:** 1950-57  
**Chief of Party:** F. Natella, Chief of Party (Field)  
E. H. Kirsch, Baltco. Photo. Office  

**Library & Archives**  
**Date:** June 5, 1959
DATA RECORD

T-9635

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

Field Office (II): Raymond, Washington
Chief of Party: Fred Natella

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

Instructions dated (II) (III):
20 March 1951
3 Aug. 1951
15 Feb. 1952
13 May 1952

Copy filed in Division of Photogrammetry (IV)

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

Manuscript Scale (III): 1:17,000 (topo.)
1:10,000 (shoreline)

Stereoscopic Plotting Instrument Scale (III): 1:17,000 (topo.)
1:10,000 (shoreline)

Scale Factor (III): 1.000

Date received in Washington Office (IV): JUN 29 1955
Date reported to Nautical Chart Branch (IV): JUL 1 1955

Applied to Chart No.

Date: 14 MAR 1955

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):
Mean sea level except as follows:
Elevations shown as (2D) refer to mean high water
Elevations shown as (2D) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (II): TOKELAND, 1952

Lat.: 46° 42' 18.981"
Long.: 123° 57' 57.853"

Adjusted

Plane Coordinates (IV): Y=
State:
Zone:
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): Interior Shoreline
  John H. Winniford
  (John H. Winniford)
  (Charles H. Bishop)
  (Sheridan W. Jones)
  (Gordon R. Combs)
  Date: Aug. Sept. 1953

Completion Surveys by (II):
  H. Bishop
  Date: July 1957

Mean High Water Location (III) (State date and method of location):
Southern MHWL of Toke Pt. Peninsular located by Distances Given From
Reference Points. The MHWL of Snag Islands from Planetable 1:20,000

Projection and Grids ruled by (IV): Jack Allen
  Date: #22 Sept. 1952
  25 Sept. 1952

Projection and Grids checked by (IV): H. D. Wolfe
  Date: # 3 Oct. 1952
  5 Oct. 1952

Control plotted by (III):
  #E. H. Taylor
  A. K. Heywood
  Date: #12 Dec. 1953
  19 Nov. 1952

Control checked by (III):
  #J. D. McEvoy
  E. L. Rolle
  Date: #15 Dec. 1953
  19 Nov. 1952

#Desi-Plot or Stereoscopic:
  D. M. Brant
  Date: 2 Feb. 1954

Control extension by (III):
  #E. H. Taylor
  Planimetry
  #E. L. Rolle
  Date: *3 Feb. 1954
  17 Feb. 1954

Stereoscopic Instrument compilation (III):
  J. D. McEvoy
  Contours
  J. D. McEvoy
  Date: #29 Nov. 1954

Manuscript delineated by (III): * J. D. McEvoy
  J. D. McEvoy
  Date: #15 March 1954
  14 Jan. 1955

Photogrammetric Office Review by (II): *A. K. Heywood
  A. K. Heywood
  Date: 22 April 1955
  17 May 1955

Elevations on Manuscript
  checked by (II) (III):
  A. K. Heywood
  Date: 17 May 1955

*Pertains to Shoreline Manuscript only.
Camera (kind or source) (III): USC&GS 6" Metrogon Type "0"

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From Table of Predicted Tides

Tide (III)

| Reference Station: | Aberdeen, Wash. |
| Subordinate Station: | Toke Point |

Washington Office Review by (IV): [Signature]

Final Drafting by (IV): [Signature]

Drafting verified for reproduction by (IV): [Signature]

Proof Edit by (IV): [Signature]

Land Area (Sq. Statute Miles) (III): 19
Shoreline (More than 200 meters to opposite shore) (III): 18
Shoreline (Less than 200 meters to opposite shore) (III): 5
Control Leveling - Miles (II): 11
Number of Triangulation Stations searched for (II): 37
Recovered: 19
Identified: 7
Number of BMs searched for (II): 11
Recovered: 19
Identified: 7
Number of Recoverable Photo Stations established (III): 11
Number of Temporary Photo Hydro Stations established (III): None

Remarks:
SUMMARY
TO ACCOMPANY DESCRIPTIVE REPORT T-9635

Topographic map T-9635 is one of 14 similar maps in Project PH-62. It covers the entrance to Willapa Bay.

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.

The multiplex compilation was at a scale of 1:17,000. The manuscript consists of one vinylite sheet 7½ in latitude and 7½ in longitude.

The entire map was field edited. It does 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 1:62,500 without an accuracy statement.

The registered copies under T-9635 will include a cronar film positive of the topographic manuscript and shoreline surveys.

A shoreline survey was also made of this area. The multiplex compilation was at a scale of 1: 10,000. Two manuscripts, north and south halves, each sheet being 3½ minutes in latitude and 7½ minutes in longitude.
WASHINGTON, Grays Harbor - Willapa Bay

Compilation scales 1:10,000 and 1:20,000

TOPOGRAPHIC MAPS: T-9514, T-9515, T-9516, T-9519, T-9520, T-9521, T-9633 to T-9636 and T-9638, (scale 1:20,000),

T-9635-N, T-9635-S, T-9636-N, T-9636-S, T-9638-N, T-9638-S, scale 1:10,000,
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<th>LONGITUDE OR ( x )-COORDINATE</th>
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<th>DATUM CORRECTION</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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** Less than 3rd order

1 FT = 304.8006 METER

COMPUTED BY H. P. Elichert

DATE: October 30, 1953

CHECKED BY A. K. Heywood

DATE: Oct. 30, 1953
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** Less than 3rd order.  
* This station name has been changed to WILLAPA RIVER DYBN. 15, 1953

1 FT = 304.8006 METER

COMPUTED BY E. H. Taylor  
DATE 11 February 1954  
CHECKED BY H. E. Elchert  
DATE 11 February 1954
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CHECKED BY: H. P. Eichert      DATE: 11 February 1954
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<td>43</td>
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1 FT. = 304.8006 MM

COMPUTED BY: H. F. Eichert     DATE: 10 NOVEMBER 1953
CHECKED BY: A. K. Heywood     DATE: 19 NOVEMBER 1953
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<th>LONGITUDE OR x-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
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1 FT = 0.3048006 METER

COMPUTED BY: H. R. Eichert  DATE: 10 November 1953  CHECKED BY: A. K. Heywood  DATE: 19 November 1953
COMPILATION REPORT
Project Ph-62
Survey T-9635

Field Inspection Report: Bound with the Descriptive Report for T-9633.

Photogrammetric Plot Report: Bound with the Descriptive Report for T-9637

31. **DELINEATION**

All detail, except shoreline, was compiled by the multiplex instrument. Detail points were established during the multiplex orientation for use in compiling shoreline from the photographs.

The topographic survey was delineated at 1:17,000 scale; the shoreline survey at 1:10,000 scale. A suitable reduction of the 1:10,000 scale shoreline manuscript furnished on film positive was utilized in the transfer of shoreline and offshore details to the topographic manuscript.

32. **CONTROL**

Refer to the Photogrammetric Plot Report, item No. 23.

33. **SUPPLEMENTAL DATA**

Land Flats:

TWP 14N R5W
TWP 13N R10W

34. **CONTOURS AND DRAINAGE**

Refer to item No. 6 of the Field Inspection Report which gives a description of woodland cover and extreme tree heights. The almost complete timber cover directly affects the contour accuracy. A more complete discussion giving opinions and reasons will be found in item No. 34 of the Descriptive Report for T-9516.

Diapositive quality was only fair.

There was considerable glare as mentioned in item No. 25, paragraph 2 of the Photogrammetric Plot Report.

35. **SHORELINE AND ALONGSHORE DETAILS**

Refer to paragraphs one (1) thru three (3) of the Field Inspection Report, item No. 7.

Shoreline inspection was fair. Some areas will need particular attention and have been so noted for field edit. There seemed to be some question as to whether or not the field inspector meant grass-in-water when he noted marsh. In several instances stereoscopic examination indicated this disagreement and grass-in-water was shown. These areas extend from the vicinity of Niawiaum River to the east limits of the manuscript.

*These areas were resolved by the Office Inspector, J.W. Neal*
36. OFFSHORE DETAILS

Copies of this shoreline survey were furnished to hydrography prior to review and the forwarding of this report. Hydrographic surveys have since been completed. Many piles, noted to be located on a chart section during the hydrographic survey, will have to be added before offshore details can be considered complete. These data are not available to this office.

Shoal areas were furnished by hydrography on a black and white copy of the manuscript.

37. LANDMARKS AND AIDS

FINE ISLAND CHANNEL DAYBEACON 2, 1953 was deleted from the manuscript in accordance with data submitted by hydrography on a black and white copy of T-9635N.

* Palix River Lt. and two channel markers in the vicinity of Bay Center are not shown. The chart section mentioned in the previous item No. 36 noted these positions to be located. No data has since been furnished to locate these aids and they are not shown on either the topographic or shoreline surveys.

38. CONTROL FOR FUTURE SURVEYS

Eight Forms 524 have been submitted at the time of this report. Two recoverable topographic stations were established and the positions of three were verified by multiplex. Two stations, PALE and LICK, 1953 were established by field inspection but not listed in paragraph No. 11 of the Field Inspection Report.

A list of recoverable topographic stations has been prepared and included in paragraph No. 49. The original copy, "Notes to the Hydrographer", was submitted 5 April 1954 with the shoreline surveys prior to the body of the Compilation Report.

39. JUNCTIONS

Junction was made:
   To the north with Survey T-9633.
   To the south with Survey T-9638.
   To the east with Survey T-9636.
   To the west with Survey T-9634.
40. **HORIZONTAL AND VERTICAL ACCURACY**

Refer to item No. 23 of the Photogrammetric Plot Report and item No. 34 of this report.

41. **BOUNDARIES**

The Public Land lines are fair. Only two section covers could be recovered by the Field Inspection. The area has not been cut over recently enough to aid in locating the land lines.

46. **COMPARISON WITH EXISTING MAPS**

C of E Tactical Map South Bend, scale 1:62,500.

47. **COMPARISON WITH NAUTICAL CHARTS**


Items to be applied immediately: None.

Items to be carried forward: None.

Respectfully submitted
20 June 1955

A. K. Heywood
Carto. (Photo.)

Approved and forwarded
21 June 1955

E. H. Kirstch, Comdr. USCG
Officer in Charge
Balto. Photo. Office
GEOGRAPHIC NAMES LIST

Bay Center
Bay Center Channel
Bay Center Cutoff Channel
Bone River
Cedar River
Ellen Sands
Empire Spit
Freshwater Creek
Goose Point
Hansen Creek
Holton Ranch
Hawks Point
Kindred Island
Kindred Slough
Nisquakum River
Norris Slough
North River
Old State Road No. 12
Fine Island
Fine Island Channel
Russell Channel
Smith Creek
Snag Islands
Stony Point
Teal Duck Slough
Teke Point
Tokeland
Willapa Bay

Wasedo (for title)

= U.S. 101 (latest official State Highway map shows both numbers)
State or OR 13A (to Tokeland)

Names approved 9-7-56
L. Heck
PHOTOGRAMMETRIC OFFICE REVIEW

T- 41635

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

40. 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.

_________ ___________
Compiler           Supervisor

43. Remarks:
PHOTOGRAMMETRIC OFFICE REVIEW

T. 46 S (NORTH LINE)

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  
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37. Descriptive Report  
38. Field inspection photographs  
39. Forms

40. 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.

Compiler  
Supervisor

43. Remarks:
I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be charted on (maintained) the charts indicated.

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

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<td>(△ Willapa River Lt. 13, 1953)</td>
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<td>LT</td>
<td>(△ Cedar River Plato Light, 1953)</td>
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<td>LT</td>
<td>(△ Willapa River Range Front Lt. L, 1953)</td>
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<td>BN</td>
<td>(North River Daybeacon 2, 1953)</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 objects may be consistent with or without the charting organization, thus the user should consult charts and other data sources.
I recommend that the following objects which **have** (have not) been inspected from seaward to determine their value as landmarks be charted on **strike out** the charts indicated.

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

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This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and **nonfloating**
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 P. Eichert**

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<th>LATITUDE*</th>
<th>D.METERS</th>
<th>LONGITUDE*</th>
<th>D.M. METERS</th>
<th>LONGITUDE*</th>
<th>D.P. METERS</th>
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This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and **nonfloating**
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<th>Sea level reduction*</th>
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Recorded pp. 1-4, Vol. 7
All objects v.g.
No eccentricities.
Observed from instrument tripod.

* These columns are for office use and should be left blank in the field.
Station: Ken  
Chief of party: C. V. H.  
Observer: C. V. H.  
Instrument: No. 168

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<td>-</td>
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<td>+3 31.2</td>
<td>+</td>
<td>313 28 01.5</td>
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<td>357 28 64.78</td>
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</tr>
<tr>
<td>Reso</td>
<td>357 28 48.83</td>
<td>- 1.16</td>
<td>-</td>
<td>357 28 64.78</td>
<td></td>
</tr>
</tbody>
</table>

This form, with the first three and fifth columns properly filled out and checked, must be furnished by field parties. To be acceptable it must contain every direction observed at the station.

It should be used for observations with both repeating and direction theodolites.

The directions at only one station should be placed on a page.

If a repeating theodolite is used, do not abstract the angles in tertiary triangulation. The local adjustment corrections (to close horizon only) are to be written in the Horizontal Angle Record, and the List of Directions is to be made from that record directly.

Choose as an initial for Form 24 a some station involved in the local adjustment, and preferably one which has been used as an initial for a round of directions on objects not in the main scheme. Use but one initial at a station. Call the direction of the initial 0° 00′ 00″ 00, and by applying the corrected angles to this, fill in opposite each station its direction reckoned clockwise around the whole circumference regardless of the direction of graduation of the instrument. The clockwise reckoning is necessary for uniformity and to make the directions comparable with azimuths.

If a station has been occupied eccentrically, reduce to the center and enter in this form, in ink, the resulting corrections to the observed directions in the column provided for them. If an eccentric reduction is necessary, but not made in the field, leave the column blank. If the station was occupied centrally, and no eccentric reduction is required, put dashes in the column to show that no corrections are necessary.

Directions in the main scheme should be entered to hundredths of seconds in first-order triangulation; otherwise to tenths only. Points observed upon but once, direct and reverse, should be carried to tenths in first-order and second-order triangulation, and to even seconds only in third-order triangulation. In general, but two uncertain figures should be given.

It is recommended that the following simple plan of observing be used with a repeating instrument: Measure each single angle in the scheme at each station and the outside angle necessary to close the horizon. Measure no sum angles. Follow each measurement of every angle immediately by a measurement of its complement. Six repetitions are to constitute a measurement. The local adjustment will consist simply of the distribution of the error of closure of the horizon.
FIELD EDIT REPORT

Project Ph-62

T-9635 and T-9636

1 August 1957

V. R. Sobieralski, Chief of Party

51. Methods

Field edit of these maps was done in accordance with Letter Instructions for Field Edit, Project Ph-62, dated 1 June 1955, and Notes to the Field Editor on the discrepancy prints. The work was accomplished in June and July 1957.

All planimetric features have been edited. Deletions and additions have been made on Field Edit Sheet Nos. 1, 2 and 3 (T-9636) and Field Edit Sheet No. 1 (T-9635).

Notes to the field editor on the discrepancy prints have either been answered on the print itself or cross-referenced to the proper source of information.

In general, violet ink has been used for elevations and contour corrections made by planetable, whereas barometric elevations and contour changes have been indicated with red ink. One planetable traverse in T-9635 on the south side of the Bone River was inadvertently inked with red ink. Deletions have been made with green ink. Red ink has been used to check, correct and add cultural features.

No section corners or points on line were located in T-9635.

The following section corner in T-9636 was recovered and located by planetable:

Section Corner 32, 33, 5, 4 T14, 15N R9W, located on Field Edit Sheet No. 1.

The following section corners and points on section lines were recovered and identified on 1:20,000 scale field photographs:

<table>
<thead>
<tr>
<th>Point</th>
<th>Identified on Photo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section Corner 29, 28, 32, 33 T14N R9W</td>
<td>51 0 7173</td>
</tr>
<tr>
<td>&quot; &quot; 31, 1, 6 T13,14N R9,10W</td>
<td>51 0 7173</td>
</tr>
</tbody>
</table>
Field edit information has been noted on the discrepancy prints, Field Edit Sheets 1 through 3 in T-9636, Field Edit Sheet No. 1 in T-9635 and on the following 1:20,000 scale field photographs:

<table>
<thead>
<tr>
<th>Photograph</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>51 0 7173</td>
<td>Section Corner</td>
</tr>
<tr>
<td>51 0 7174</td>
<td>Section Corner</td>
</tr>
<tr>
<td>51 0 7149</td>
<td>Buildings at west edge of</td>
</tr>
<tr>
<td></td>
<td>Raymond</td>
</tr>
<tr>
<td>51 0 7149</td>
<td>Point on section line</td>
</tr>
<tr>
<td>51 0 7150</td>
<td>Point on section line</td>
</tr>
<tr>
<td>51 0 7171</td>
<td>Point on section line</td>
</tr>
<tr>
<td>51 0 7172</td>
<td>Terminal of submarine cable</td>
</tr>
<tr>
<td>\51 0 7205</td>
<td>Terminal of submarine cable</td>
</tr>
<tr>
<td>\51 0 7303</td>
<td>Terminal of submarine cable</td>
</tr>
<tr>
<td>\51 0 7304</td>
<td>Shoreline in Bay Center and</td>
</tr>
<tr>
<td></td>
<td>buildings</td>
</tr>
</tbody>
</table>

State Highway 13-A is being extended westward from the Airport Road at Willapa Harbor Airport and the present contract will take it to North River. Construction is now in progress and all of the road that could be located by planetable at the time of field edit has been located on Field Edit Sheet No. 1. Contract plans for the section from Airport Road to North River were obtained from the Washington State Highway Commission and are included with the field edit data. The following road survey stations have been located on the sheet by planetable methods: Stations 267400, 296450, 324450, 335450, 340450, 406400. It is believed that these stations will enable the compiler to align the new road on the map.
52. Adequacy of Compilation

No inadequacies were noted in the compilation and it will be complete with the application of the field edit data.

53. Map Accuracy

No deficiencies in horizontal accuracy were noted during field edit operations.

Vertical accuracy tests were run in both sheets. In T-9636 the tests were along the Palix River - South Bend Road and along Church Road. Of the one hundred and five points tested by planetable, one hundred and one points or ninety-six percent of them were within one-half contour interval. Of fifteen points tested by barometric leveling, only sixty percent were within one-half contour interval. One would naturally expect the contours to be fairly accurate along the roads but inaccuracies are to be expected in the wooded areas where checking is extremely difficult and highly impractical. It is believed that this map will not conform to national map accuracy standards for a 40-foot contour interval because a large area of the map is wooded.

Three accuracy tests were run in the southeast corner of T-9635. Of ninety-three points tested by planetable, only seventy-six percent were within one-half contour interval. Of twelve points tested by barometric leveling, only eight points or sixty-seven percent were within one-half contour interval.

The accuracy tests have been abstracted and are submitted with this report.

54. Recommendations

No recommendations are made.

55. Examination of Proof Copy

A proof copy of these maps may be sent to the following named persons for examination:

Mr. I. W. Pottu
County Court House
South Bend, Washington

Mr. L. S. Mathews
County Court House
South Bend, Washington

Mr. Pottu is the Pacific County Engineer and Mr. Mathews is the office engineer for Pacific County.
The only discrepancy in geographic names that was noted is the spelling of Stuart Slough, near the west edge of T-9636. The correct spelling is STUART rather than STUWART as it is spelled on the map.

Approved:
V. Ralph Sobieralski
By J.F.
V. Ralph Sobieralski
LODR C&G Survey
Chief of Party

Respectfully submitted:
Charles H. Bishop
Charles H. Bishop
Cartographer
C&GS
**REVIEW REPORT T-9635**

**TOPOGRAPHIC**

6 February 1958

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**62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS**

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1262</td>
<td>1:10,000</td>
<td>1871</td>
<td>4253</td>
<td>1:20,000</td>
<td>1926</td>
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<tr>
<td>1264</td>
<td>&quot;</td>
<td>&quot;</td>
<td>6728b</td>
<td>&quot;</td>
<td>1:10,000</td>
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<tr>
<td>1292</td>
<td>&quot;</td>
<td>1872</td>
<td>6729</td>
<td>&quot;</td>
<td>&quot;</td>
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<tr>
<td>3224</td>
<td>1:20,000</td>
<td>1911</td>
<td>6730b</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>3921</td>
<td>&quot;</td>
<td></td>
<td></td>
<td>1922</td>
<td></td>
</tr>
</tbody>
</table>

Manuscript T-9635 supercedes all of the above surveys in common areas as source material for charts.

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**63. COMPARISON WITH MAPS OF OTHER AGENCIES**

Corps of Engineer Tactical Map South Bend

1:62,500.

Several elevations of tops and saddles published on this map were checked during field edit and found to be +80 to +100 feet in error.

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**64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS**

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>H-8137</td>
<td>1954</td>
<td>1:10,000</td>
<td></td>
</tr>
<tr>
<td>H-8136</td>
<td></td>
<td>&quot;</td>
<td></td>
</tr>
</tbody>
</table>

The offshore details, location of piles and day-beacons, north of latitude 46°44' in the area of North River is incomplete. This information was requested during the Photogrammetric Review on a chart section. (See item 36 Compilation Report). No contemporary hydrographic was made in this area.

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**65. COMPARISON WITH NAUTICAL CHARTS**

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Chart 6185</td>
<td>1:40,000</td>
<td>Revised 11/25/57</td>
<td></td>
</tr>
</tbody>
</table>
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This map complies with instructions. It does not meet the National Standards of Map Accuracy. Refer to Items 34 and 40 of the Compilation Report.

New photography, purchased by this Bureau, was used to edit planimetric detail and the representation of contour shapes.

This photography was of 12" focal length and obtained from H. G. Chickering of Eugene, Oregon, dated 1955.

Horizontal accuracy was good as stated in item 53 of the Field Edit Report. It was of sufficient accuracy for use in the contemporary hydrographic surveys completed in this area.

67. LANDLINES

All of the landlines are unreliable. Only two section corners could be found due to the dense growth.

Reviewed by

A. K. Heywood

Approved

L. C. Lande
Chief, Review Branch
Photogrammetry Division

Chief, Nautical Chart Branch
Charts Division

Act. Chief, Photogrammetry Division

Chief, Coastal Surveys
<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>9-10-57</td>
<td>6185</td>
<td>R.K.D</td>
<td>Partial Before After Verification and Review</td>
</tr>
<tr>
<td>9-14-79</td>
<td>18504</td>
<td>D.C. Larson</td>
<td>Fully After Verification and Review</td>
</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.