

9517N

95175 COMBINED

9517N  
95175 COMBINED

Diag. Cht. No. 6002-2.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. Ph-62(49) Office No. T-9517

LOCALITY

State Washington

General locality Grays Harbor

Locality Point Brown

194/50-55

CHIEF OF PARTY

C. W. Clark, Chief of Party

J. C. Sammons, Balto. Photo. Office

LIBRARY & ARCHIVES

DATE June 5, 1958

# DATA RECORD

T -9517

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

Field Office (II): **Copalis Beach, Washington  
Westport, Washington**

Chief of Party: **Charles W. Clark**

Photogrammetric Office (III): **Baltimore, Maryland**

Officer-in-Charge: **Jack C. Sammons**

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

Copy filed in Division of  
Photogrammetry (IV)

**Supplement 1 dated: 15 February 1952**

**Letter No. 73-aal dated: 24 May 1951**

Method of Compilation (III): **Air Photographic (Multiplex and Kelsh)**

Manuscript Scale (III): **1:10,000**

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

Scale Factor (III): **1.000**

**OCT 6 - 1953**

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV): **OCT 19 1953**

Applied to Chart No.

Date:

Date registered (IV): **22 Oct 1957**

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): **NA 1927**

Vertical Datum (III):

Mean sea level except as follows:  
Elevations shown as (25) refer to mean high water  
Elevations shown as (S) refer to sounding datum  
i.e., mean low water or mean lower low water

Reference Station (III): **MARSH, 1911**

Lat.: **46° 58' 48.055"**

Long.: **124° 08' 17.760"**

Adjusted  
~~Unadjusted~~

Plane Coordinates (IV):

State: **WASHINGTON**

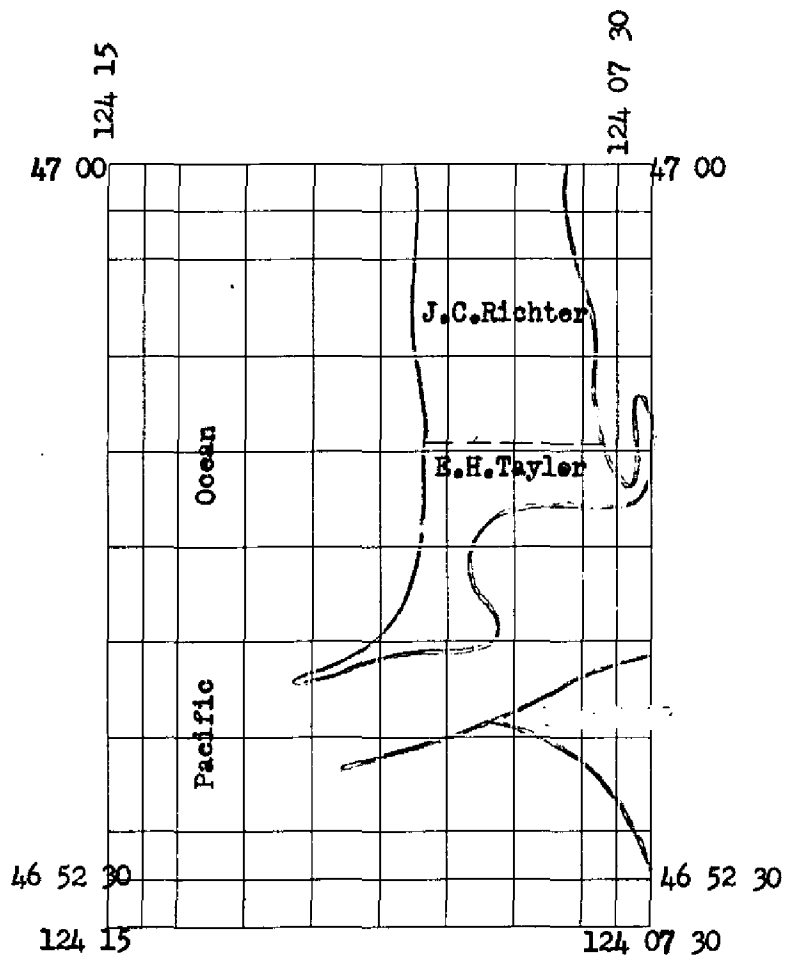
Zone: **South**

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.



Areas contoured by various personnel  
 (Show name within area)  
 (II) (III)

# DATA RECORD

T-9517

Field Inspection by (II): K. Huey

Date: 9/15/51

Planetable contouring by (II):

Date:

Completion Surveys by (II):

CHARLES H. Bishop

Date:

JUNE 1955

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

July 11, 1950 and June 16, 1951 - Photogrammetric

July 8, 1952 - Planetable; Sept. 15, 1951, Theodolite Cuts

See item 35, Compilation Report

\*June 10, 1955-Planetable

Projection and Grids ruled by (IV): J. Allen

Date: Nov. 11, 1951

Projection and Grids checked by (IV): H. D. Wolfe

Date: Nov. 27, 1951

Control plotted by (III): B. Wilson

Date: Nov. 5, 1952

Control checked by (III): A. K. Heywood

Date: Dec. 9, 1952

Radial Plot or Stereoscopic

Dec. 23, 1952

Control extension by (III): E. L. Rolle

Date:

Stereoscopic Instrument compilation (III):

Planimetry) E. H. Taylor

Date: March 10, 1953

Contours ) J. C. Richter

Date: Feb. 11, 1953

Manuscript delineated by (III): J. Y. Councill

Date: June 29, 1953

Photogrammetric Office Review by (III): A. K. Heywood

Date: July 10, 1953

Elevations on Manuscript

Date: July 9, 1953

checked by (II) (III):

A. K. Heywood

\*All shoreline areas mentioned in paragraph #35 of the Descriptive Report have been relocated during Field Edit by planetable.

THE MHWL BORDERING ON THE PACIFIC OCEAN WAS ALSO RELOCATED  
AT TIME OF FIELD EDIT AREA



Camera (kind or source) (III):

PHOTOGRAPHS (III)				
Number	Date	Time	Scale	Stage of Tide
50-0-1577 thru				
50-0-1583	7/11/50	13:28	1:24,000	*
51-0-7136	6/16/51	13:22	"	4.1 above MLLW
51-0-1519	7/11/50	12:55	"	" " "
* On Pacific Ocean side		3.3 above MLLW		
On North Bay side		4.1 above MLLW		

Tide (III) from predicted tables. Diurnal

Reference Station: ABERDEEN, GRAYS HARBOR  
 Subordinate Station: PT. GRENVILLE  
 Subordinate Station: PT. CHEHALIS

Ratio of Ranges	Mean Range	Spring Range
-	7.8	9.9
.9	6.5	8.6
.9	6.9	9.0

Washington Office Review by (IV):

Date:

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 9  
 Shoreline (More than 200 meters to opposite shore) (III): 15  
 Shoreline (Less than 200 meters to opposite shore) (III): 0  
 Control Leveling - Miles (II): 3  
 Number of Triangulation Stations searched for (II): 19  
 Number of BMs searched for (II): 0  
 Number of Recoverable Photo Stations established (III): 4  
 Number of Temporary Photo Hydro Stations established (III): 0

Recovered: 6 Identified: 7  
 Recovered: 0 Identified: 0

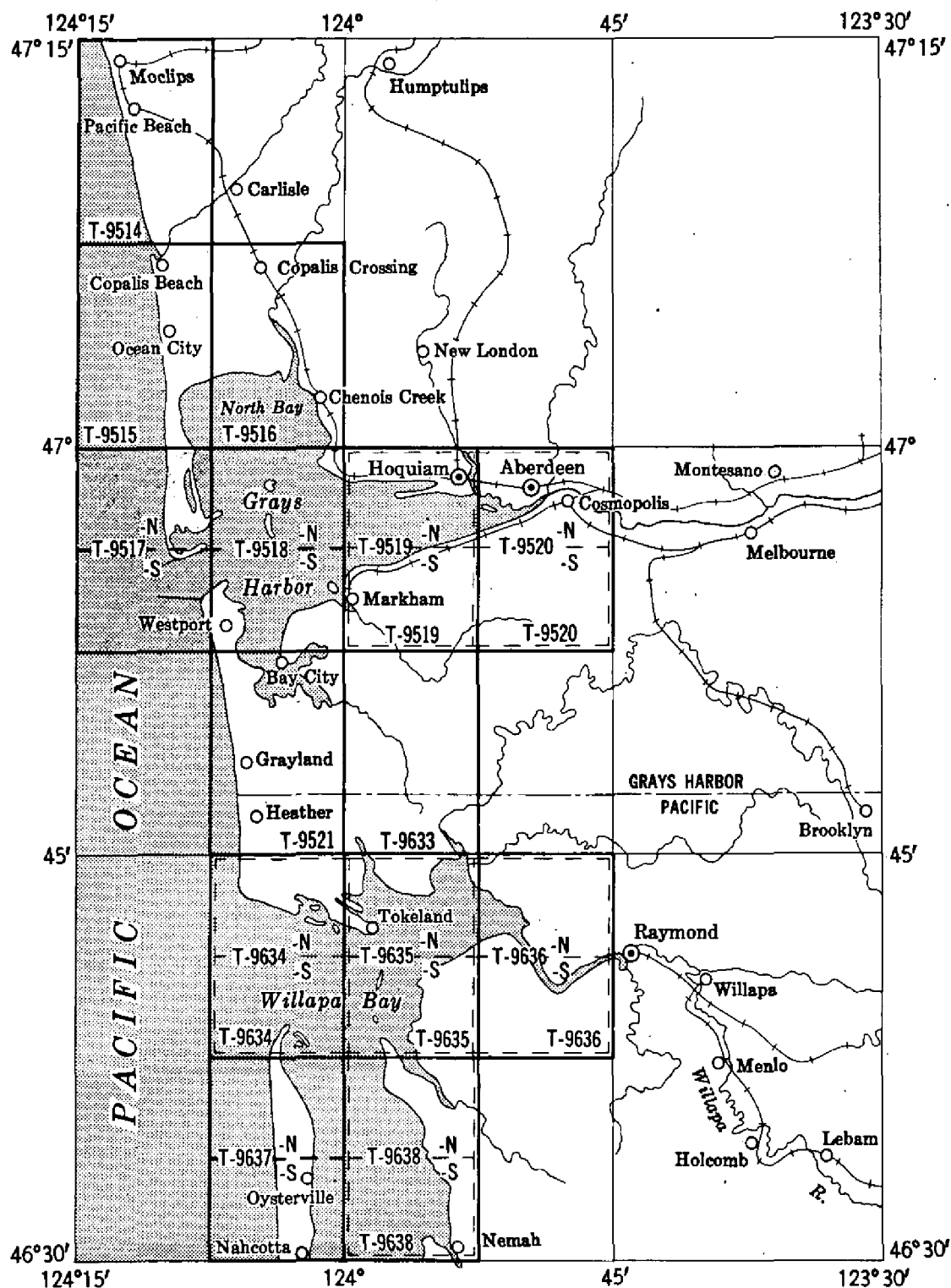
Remarks:

1 horizontal control station identified is fourth-order topo station.

# TOPOGRAPHIC AND SHORELINE MAPPING PROJECT PH-62 (49)

## 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-9517-N, T-9517-S, T-9518-N, T-9518-S, T-9637-N, T-9637-S, (scale 1:10,000),

SHORELINE SURVEYS: T-9519-N, T-9519-S, T-9520-N, T-9634-N, T-9634-S,  
T-9635-N, T-9635-S, T-9636-N, T-9636-S, T-9638-N, T-9638-S, scale 1:10,000,

## Summary

### To Accompany Descriptive Report T-9517

Topographic map T-9517 is one of 14 similar maps in Project Ph-62. It covers the peninsula jutting into North Bay.

This is a multiplex project in advance of hydrographic surveys to be made in the same 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 1:10,000. The manuscript consists of two vinylite sheets each  $3\frac{3}{4}'$  in latitude by  $7\frac{1}{2}'$  in longitude.

The entire map was field edited. It is to be published by the Geological Survey at a scale of 1:62,500 as a standard topographic quadrangle.

The registered copies under T-9517 will include a cronar film positive.

SCALE FACTOR 1.000

[illegible]



MAP T-...9517...

PROJECT NO. Ph-62(49).

SCALE OF MAP 1:10,000

SCALE FACTOR 1.000

[illegible]

1 FT. = .3048006 METER

COMPUTED BY: B. Wilson

DATE 3 Nov. 1952

CHECKED BY: Henry F. Eichert

DATE 3 Nov. 1952

M-2388.12

COMPILATION REPORT  
T-9517

FIELD INSPECTION REPORT:

Bound with Descriptive Report for T-9515.

PHOTOGRAMMETRIC PLOT REPORT:

Bound with Descriptive Report for T-9515.

31. DELINEATION

Refer to item 31 of the Compilation Report for T-9515.

32. CONTROL

Refer to item 23 of Photogrammetric Plot Report bound with Descriptive Report for T-9515.

33. SUPPLEMENTAL DATA

Land plat:

1 Township, No. 17N R12W, Willamette Meridian dated January 5, 1860.

34. CONTOURS AND DRAINAGE

The topography of this area was of very low relief and only a few isolated sand dunes were of sufficient elevation to be contoured.

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline inspection along the Pacific Ocean was adequate. Shoreline inspection in the vicinity of triangulation station DAMON, 1951 and the area SE of the south jetty was incomplete. Subsequent paragraphs discuss each of these areas separately.

The MHWL in the area beginning just south of triangulation station DAMON, 1951 and extending north around the sand spit and back is noticeably changeable. A small portion, approximately 250 meters, was plotted from the theodolite angles and distances given on the reverse side of field photograph 50-0-1580, scale 1:10,000. This area begins 50 meters NE of DAMON, 1951 and extends south for 250 meters. The field inspection, however, failed to "tie" this work with the adjacent shoreline as "ticked" on the field photograph. It was left incomplete on the manuscript for completion during the field edit.

The MHWL in the area SE of the south jetty is also incomplete. Some planetable work dated July 8, 1952 was furnished at manuscript scale for the shoreline beginning 625 meters north of latitude 46° 54' and extending SE almost to the eastern limits of this survey. This planetable shoreline did not "tie" with the MHWL from the adjacent survey. The shoreline of this adjacent survey T-9518, was interpreted



35. SHORELINE AND ALONGSHORE DETAILS (CONT'D)

by office inspection using 1951 photography. The field editor has been asked to revise and complete the shore line.

Special mention is made here of the instability of the MHWL of the sand island called Damon Point. As shown, the shoreline was delineated as interpreted by this office using the latest photograph 51-0-7136. A request for field edit verification was made and further information may be found by referring to the Field Edit Report.

ALL SHORELINE REVISED BY THE FIELD  
EDITOR IN 1955.

Atk  
2

36. OFFSHORE DETAILS

Refer to item 8 of the Field Inspection Report.

37. LANDMARKS AND AIDS

Forms 567 are submitted herewith for all landmarks and aids.

38. CONTROL FOR FUTURE SURVEYS

Forms 524 are submitted for the four following topographic stations:

NORTH (USE), 1952

\* DO, 1951

\* GO, 1951

SHACK, 1951 (Accuracy of identification doubtful).

\*These stations were previously established in 1940 by planetable methods.

New positions were determined by multiplex for all four topographic stations.

NORTH (USE) and SHACK, 1951 are not listed under item 11, Field Inspection Report. Control identification forms were submitted by the Field Inspection party for "Shack in the north jetty" and NORTH (USE). No forms 524 were submitted and both are furnished with this report by the Baltimore office.

A separate listing of recoverable topographic stations useful for hydrography will be found under item 49, Notes for the Hydrographer.

39. JUNCTIONS

To the south and west is water. Junctions were made to the north with Survey No. T-95~~65~~<sup>75</sup> and to the east with Survey T-9518.

40. HORIZONTAL AND VERTICAL ACCURACY

Refer to item 23 of the Photogrammetric Plot Report.

41. BOUNDARIES

The extent of the land area has changed considerably since section lines were established in 1860. Corner 22, 23, 27, 26 which the plat shows to be originally on land is now in the water. Since the jetties were built much of the shoreline has built out forming new land. No original monuments were found and all land lines are unreliable.

42 - 45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with AMS Sheet 1177 I Series V-791, Grayland Quadrangle, scale 1:50,000, first edition 1939, reprinted 1947.

47. COMPARISON WITH NAUTICAL CHART

Chart No. 6002, scale 180,789 at Lat. 47° 00' published July 1942, (10th Edition) 4/21/52 and Chart 6195, scale 1:40,000 published July 1949, (52nd Edition) 10/2/50.

Items to be applied immediately:

None.

Items to be carried forward:

None.

Approved and Forwarded

9 Oct. 1953

*Jack C. Sammons*

Jack C. Sammons,  
Capt. U.S.C. & G. S.  
Officer in Charge  
Baltimore Photo. Office

Respectfully submitted

24 September 1953

*A. K. Heywood*

A. K. Heywood  
Cartographer (Photo)



## PHOTOGRAMMETRIC OFFICE REVIEW

T-9517

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

## CONTROL STATIONS

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

## ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline AKH 13. Low water line AKH 14. Rocks, shoals, etc. AKH 15. Bridges AKH 16. Aids to navigation AKH 17. Landmarks AKH 18. Other alongshore physical features AKH 19. Other along-shore cultural features AKH

## PHYSICAL FEATURES

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

## CULTURAL FEATURES

27. Roads AKH 28. Buildings AKH 29. Railroads AKH 30. Other cultural features AKH

## BOUNDARIES

31. Boundary lines AKH 32. Public land lines AKH

## MISCELLANEOUS

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

40. E. Glaser  
Reviewer

Kenneth P. Richert  
Supervisor, Review Section or Unit

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.

A. H. Engle  
Compiler

Kenneth P. Richert  
Supervisor

43. Remarks:

45. GEOGRAPHIC NAMES

Damon Point  
Duck Lake

Grays Harbor County

North Bay

Pacific Ocean  
Point Brown

Grays Harbor (fort title)

Point Chehalis

U.S. Coast Guard Reservation

All the above names are from the final name sheet of C of E Grayland,  
Washington Quadrangle.

Names approved  
3-10-54. L. Heck

49. NOTES FOR THE HYDROGRAPHER

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

\* DO, 1951

\* GO, 1951

NORTH (USE, 1952 (Accuracy of Field identification doubtful.)

SHACK, 1951

\* These stations were previously established by planetable in 1940.  
New positions were plotted as reported on Forms 524.

The positions given have been checked after listing by

A. K. Heywood

E.H. Kirsch

Chief of Party.

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.



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

TO BE CHARTED  
04/08/04/04/04

**STRIKE OUT ONE**

## NON-FLOATING AIDS/OR LANDMARKS FOR CHARTS

Baltimore, Maryland

July 6

1953

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

The positions given have been checked after listing by

ПОДМАШ • 3 •

**Jack C. Sammons** *Chief of Party*

[illegible]

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.

TO BE CHARTED  
NO/BE/DEL/ET/RY

**Baltimore, Maryland**

9 July 1953

The positions given have been checked after listing by

A/ K. Heywood

**Jack C. Sammons** *Chief of Party.*

[illegible]

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

## FIELD EDIT REPORT

Project Ph-62

Quadrangle T-9517

51. Methods - Field edit of this map was done in accordance with Letter: Instructions for Field Edit, Project Ph-62, dated 1 June 1955.

Notes to the field editor on the discrepancy prints have been answered on those prints or cross-referenced to the proper field edit sheet or photographs.

Houses and roads have been edited on Field Edit Sheet No. 2.

The entire land area of this quadrangle is relatively flat. The only contour shown is the 20-foot contour along the east side of the road from Damon Point to the north limit of the sheet and the 20-foot contour just south of the south jetty. Shifting sand dune areas northward from the north jetty were not contoured but representative top elevations are shown.

One section corner was recovered. It is 34,35, 3, 2 T17,18N R12W at the north edge of T-9517 N. This corner was located by planetable and also identified on Photograph No. 1577. Another very doubtful recovery is section corner 14, 13, 23, 24 T17N R12W. Mr. Ralph Minard, owner of most of the land area in this quadrangle, stated that he remembered seeing a stake in the vicinity many years ago but that didn't see how it could have lasted until the present. The field edit unit found a short cedar stake, not squared, about a foot high and rotted off at the ground. It was where the manuscript indicates the corner should be. All other section corners on the sheet were searched for but not found. Mr. Minard has no knowledge of them.

A legend describing colored inks and symbols used during field edit is shown on Field Edit Sheet No. 2.

Field edit information has been noted on the discrepancy prints for T-9517 N and T-9517 S, Field Edit Sheet Nos. 1 and 2 and the following photographs:

<u>Photo No.</u>	<u>Type of Information</u>
1577	Shoreline corrections, Section Corner 34, 35, 3, 2, T17,18N R12W
1578	Shoreline corrections
1581	Shoreline corrections



52. Adequacy of Compilation - Compilation of this sheet is adequate, considering the extent of the field inspection.

53. Map Accuracy - No horizontal accuracy test by traverse methods was made.

Due to changes in the shoreline and the fact that in places the storm high water line rather than the mean high water line was mapped, the entire shoreline along the beach and in the vicinity of Damon Point has been corrected. The mean high water line along the ocean beach was located by planetable, using elevation 3.5 feet above mean sea level as the elevation of mean high water. The beach is building up at the present time, which moves the mean high water line in a westerly direction. The shoreline in the vicinity of Damon Point is eroding away at a rapid rate and is subject to continual change. Apparent shoreline is indicated around the small bay on the northwest side of the north jetty. See Photograph No. 1581 and Field Edit Sheet No. 1.

No vertical accuracy test was indicated on the discrepancy print. However, while locating the 20-foot contour around the ridge on the east side of the road in T9517N, 74 points were checked.

\*Seventy-two percent of these points were within one-half contour interval or better, twenty-seven percent were between one-half and a full interval and one point was in error in excess of one full interval. \*THIS FIGURE IS IN ERROR. IT SUPPOSES A 20' CONTOUR INTERVAL INSTEAD OF 40' AND DOES NOT ALLOW FOR A 3.18 mm SHIFT (1:10,000 MANUSCRIPT TO 1:62,500 PUBLICATION) THE FIGURE SHOULD BE 100%. AKA

54. See paragraph 54, Sheet T-9515.

55. Examination of Proof Copy - The following named person has consented to examine a proof copy of the map:

Mr. Arnold Lock  
Box 56  
Copalis Beach, Washington

Mr. Lock has been a resident of the area for more than 30 years and a fire warden for a large part of this time.

Approved and forwarded,

*Fred Natella*  
Fred Natella  
Comdr., C&G Survey  
Chief of Party

Respectfully submitted,

*for Fred Natella*  
Charles H. Bishop  
Cartographer



# Review Report T-9517

## Topographic

5 September 1957

### 61. General Statement

See Summary Report

### 62. Comparison with Registered Topographic Surveys

H-2371	1:20,000	1898
1701	1:20,000	1886
3044	1:20,000	1910
4305	1:20,000	1927
6805	1:10,000	1939

Emerging shoreline is creating more land area from Point Brown northward, moving as much as  $\frac{1}{8}$  mile west since the time of the 1927 survey.

Manuscript T-9517 supercedes all of the above surveys in common areas as source material for charts.

### 63. Comparison with Maps of Other Agencies

Grayland AMS Sheet 1177 1:50,000  
Contour Interval 20'

### 64. Comparison with Contemporary Hydrographic Surveys

H-8252	1955-56	1:20,000
--------	---------	----------

The MHWL on the Pacific Ocean side was revised during field edit and should be used in preference to that shown on the hydrographic survey. Also revised, but subject to continual change, is the MHWL in the vicinity of Damon Point.

### 65. Comparison with Nautical Charts

Chart 6195 Revised 5/27/57

This chart was constructed in the area of the Report from T-9517 before the manuscript was field checked. After field edit almost all the MHWL was revised, limits of interior marsh decreased and some cultural detail deleted. Refer to item 53, paragraph 2 of the Field Edit Report.

66. Adequacy of Results and Future Surveys

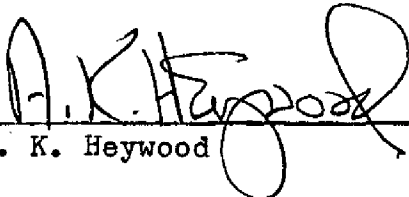
This map complies with instructions and meets the Standards of National Map Accuracy.

Refer to the Field Edit Report item 53, the last paragraph.


67. Landline

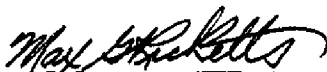
All landlines are unreliable. The field editor was able to definitely recover only one corner. The nature of the terrain (sand dunes) made the recovery of more corners difficult.

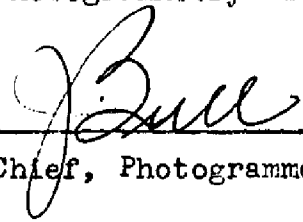
Reviewed By


  
A. K. Heywood

Approved

  
Chief, Review Branch  
Photogrammetry Division

  
Chief, Nautical Chart Branch  
Charts Division

  
Chief, Photogrammetry Div.

  
Chief, Coastal Surveys Div.

### RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

F 9517

## INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

[illegible]