Form 564
U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey: Shoreline (Photogrammetric)
T-11094, T-11563

Field No.: Ph-40
Office No.: and T-11571

LOCALITY

State: Alaska
General locality: Port Moller
Locality: Herendeen Bay

1950

CHIEF OF PARTY
J. H. Brittain, Chief of Field Party
E. H. Kirsch, Baltimore Photo. Office

LIBRARY & ARCHIVES

DATE: JUN. 2, 1953
DATA RECORD

T-11094, T-11563 and T-11571

Project No. (II): Ph-40

Quadrangle Name (IV):

Field Office (II): Portland, Oregon

Chief of Party: J. H. Brittain

Photogrammetric Office (III): Baltimore, Maryland

Officer-in-Charge: E. H. Kirsch

Instructions dated (II) (III):

Office: 12/16/52

11/29/54

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:20,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.000

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date registered (IV): 18 Sept 1957

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MHW

Mean sea level except as follows:
Elevations shown as (2) refer to mean high water
Elevations shown as (1) refer to sounding datum
I.e., mean low water or mean lower low water

Reference Station (III): MARBLE, 1950

Lat.: 55° 47' 10.155 (314.1m)

Long.: 160° 45' 14.308 (249.1m)

Adjusted

Plane Coordinates (IV):

State: Alaska

Zone: UTM Zone 4

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.

Form T-Page 1
Inapplicable

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

Field Inspection by (II): I. Zirpel, Jr. Date: June - Sept. 1950

Planetable contouring by (II):

Completion Surveys by (II):

Mean High Water Location (III) (State date and method of location): 1954, date of photography based on 1950 inspection on 1942 photographs. Southeast arm of Herendeen Bay from 1942 and 1943 photographs.

Projection and Grids ruled by (IV): S. Ross A. Riley Date: 1/2/53 12/6/54

Projection and Grids checked by (IV): H. D. Wolfe A. Riley Date: 1/2/53 12/6/54

Control plotted by (III): J. J. Schleupner Date: 12/20/54

Control checked by (III): H. R. Rudolph Date: 12/23/54

Radial Plot (III) (IV):

Control plotted by (III): A. Queen Date: 2/17/55

Planimetry

Stereoscopic Instrument compilation (III):

Contours

Manuscript delineated by (III): J. B. Phillips B. Kurs Date: 2/16/53 3/4/55

Photogrammetric Office Review by (III): R. Glaser Date: 3/15/55

Elevations on Manuscript checked by (II) (III):

Form T-Page 3
21. **AREA COVERED**

This radial plot covers the areas of surveys T-11094, T-11563 and T-11571. These are shoreline surveys of Herendeen Bay near Fort Moller, Alaska.

22. **METHOD - RADIAL PLOT**

Map Manuscripts:

Vinylite sheets, with polyconic projections in black and U.T.M., Alaska, grid in red, at a scale of 1:20,000, were furnished by the Washington office.

All control stations and substitute stations were plotted using the beam compass and meter bar.

A sketch, showing the layout of surveys, distribution of control, and photograph centers, is attached to this report.

Photographs:

The following eleven (11) nine-lens photographs, scale, 1:20,000 were used in this radial plot: 11271, 14197, 14199, 45931 thru 45934 and 45950 thru 45953.

Templets:

Vinylite templets were made from all 1954 photographs using a master templet to correct for errors due to film and paper distortion. Uncorrected templets were made from photographs 11271, 14197, and 14199.

Closure and Adjustment to Control:

The radial plot was constructed on vinylite base sheets on which all control points had been transferred from the map manuscripts.

The radial plot was started in survey T-11094 where there was adequate control and extended southwestward using both flights of 1954 photographs. The uncorrected templets were then adjusted. The northern portion of the plot presented no difficulties. The uncorrected templets made considerable adjustment necessary in the southeast portion of the plot along the junction between surveys T-11563 and T-11571. Unadjusted templets of photographs 11271, 14197, and 14199 were fixed by holding to pass points established from the 1954 photographs. Positions of additional pass points established were checked using the photographs and orienting chamber by chamber. This method produced a satisfactory plot which held all control.

Transfer of Points:

The map manuscripts were laid over the completed radial plot and after adjusting to control all photogrammetric points were pricked on the manuscripts.
23. ADEQUACY OF CONTROL

The control identified was adequate for obtaining a satisfactory radial plot.

24. SUPPLEMENTAL DATA

No supplemental data was used in the radial plot.

25. PHOTOGRAPHY

The photographic coverage was adequate for all surveys of this radial plot. Three (3) photographs were used that had no fiducial marks. There was no master templet to correct for errors due to paper and film distortion of these photographs.

Photograph 45952 was tilted, but no tilt determination was necessary.

Respectfully submitted
25 February 1955

Albert Queen, Jr.
Carto. Photo. Aid
LAYOUT SKETCH
PROJECT - PH 40
SURVEYS - 11094, 11563, 11571

▲ DEER, 1950

▲ OSGOOD, 1950
▲ NAGUE, 1950

▲ HEREN, 1950
▲ MARBLE, 1950

▲ EAGLE ROCK, 1950

11094

11563

11571

160° 20' 55° 37' 30'' 161° 00'' 55° 52' 30''

O Nine lens office photographs
▲ Control stations (identified)
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION</th>
<th>DATUM</th>
<th>LATITUDE OR x-COORDINATE</th>
<th>LONGITUDE OR y-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
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</thead>
<tbody>
<tr>
<td>HEREN, 1950</td>
<td>G-100147 p. 287</td>
<td>N.A. 1927</td>
<td>55</td>
<td>47</td>
<td>05.437</td>
<td>168.2 (1687.5)</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>160</td>
<td>52</td>
<td>19.319</td>
<td>336.7 (709.0)</td>
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<td></td>
<td></td>
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<td>160</td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>160</td>
<td>52</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MARBLE, 1950</td>
<td>G-100147 p. 287</td>
<td>n</td>
<td>55</td>
<td>47</td>
<td>10.155</td>
<td>314.1 (1540.6)</td>
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<td>160</td>
<td>45</td>
<td>14.308</td>
<td>249.4 (796.3)</td>
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<td></td>
<td></td>
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<td>160</td>
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<td></td>
<td></td>
<td>160</td>
<td>45</td>
<td></td>
<td></td>
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<tr>
<td>EAGLE ROCK, 1950</td>
<td>G-100149 p. 289</td>
<td>n</td>
<td>55</td>
<td>49</td>
<td>30.502</td>
<td>943.4 (912.3)</td>
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<td>160</td>
<td>45</td>
<td>36.953</td>
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<tr>
<td>SHARON, 1950</td>
<td>G-100149 p. 289</td>
<td>n</td>
<td>55</td>
<td>51</td>
<td>44.210</td>
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<td>160</td>
<td>40</td>
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<td>957.1 (86.5)</td>
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<tr>
<td>Sub. Pt. &quot;A&quot;</td>
<td>SHARON, 1950</td>
<td>Comp.</td>
<td>55</td>
<td>51</td>
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<td>40</td>
<td></td>
<td></td>
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<tr>
<td>Sub. Pt. &quot;B&quot;</td>
<td>SHARON, 1950</td>
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<td>55</td>
<td>51</td>
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<td></td>
<td></td>
<td>160</td>
<td>40</td>
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1 FT = 304.8006 METER

COMPUTED BY: J. Steinberg DATE: 2/3/55
CHECKED BY: G. E. Varnadore DATE: 2/4/55
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<tr>
<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 METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
</tr>
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<tbody>
<tr>
<td>ISLE, 1950</td>
<td>0-10049 p. 288</td>
<td>N.A.</td>
<td>55 44</td>
<td>52 844</td>
<td>163 4.3 (221 3)</td>
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<td></td>
<td></td>
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<td></td>
<td>1927</td>
<td>160 46</td>
<td>46 184</td>
<td>805 7 (241 0)</td>
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<td></td>
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1 FT. = 0.3048036 METER

COMPUTED BY: J. Steinberg  DATE 12/14/54  CHECKED BY: H. R. Rudolph  DATE 12/16/54
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<th>STATION</th>
<th>SOURCE OF INFORMATION</th>
<th>DATUM</th>
<th>LATITUDE OR y-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS</th>
<th>N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<tbody>
<tr>
<td>MUD, 1950</td>
<td>G-1001b9 p. 280</td>
<td>N.A. 1927</td>
<td>55 43 12.512</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>160 25 56.689</td>
<td>992.4</td>
<td>992.4</td>
</tr>
<tr>
<td>Sub. Pt.</td>
<td>Comp.</td>
<td></td>
<td>55 43</td>
<td>390.1 (1465.5)</td>
<td>390.1 (1465.5)</td>
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<td>MUD, 1950</td>
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<td>160 25 56.689</td>
<td>987.5 (395.6)</td>
<td>987.5 (395.6)</td>
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<td>V-16, 1950</td>
<td>G-1001b9 p. 289</td>
<td>n</td>
<td>55 43 45.26</td>
<td>1399.8 (545.8)</td>
<td>1399.8 (545.8)</td>
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<td></td>
<td>160 22 42.78</td>
<td>716.7 (300.5)</td>
<td>716.7 (300.5)</td>
</tr>
</tbody>
</table>

1 FT. = 0.3048006 METER

COMPUTED BY: J. Steinberg DATE 12/14/54 CHECKED BY: H. R. Rudolph DATE 12/23/54
A 1953 Descriptive Report is available for delineation done that year.

For the field report, refer to Project Report, Aerial Photograph Control and Inspection, North Shore, Alaska Peninsula, Project Ph-40 (49), June - September, 1950.

31. **DELINEATION**

Graphic methods were used to delineate the map manuscripts.

The 1955 work comprises all shoreline and offshore details from 1 mile south of HAEGUE, 1950 to one and one-half miles south of OSGOOD, 1950 on T-11094 and all of T-11563 and T-11571.

32. **CONTROL**

See Photogrammetric Plot Report.

33. **SUPPLEMENTAL DATA**

None.

34. **CONTOURS AND DRAINAGE**

Contours: not applicable.
Drainage: not comment.

35. **SHORELINE AND ALONGSHORE DETAILS**

The shoreline inspection was adequate.

The MHWL was delineated in the field on 1942-43 nine-lens photos. This information was utilized to delineate the MHWL on 1954 nine-lens photos. An approximate low water line was delineated using the latest low water photos available. No MLLW lines were furnished by the field party.

36. **OFFSHORE DETAILS**

No comment.

37. **LANDMARKS AND AIDS**

A Form 567 is being submitted for eight landmarks recommended by the field party.
38. **CONTROL FOR FUTURE SURVEYS**

   See paragraph No. 49 for a list of recoverable Topographic Stations and Hydrographic Stations in the area.

   Form 524 for station MINE, 1954 was prepared by the field party. Form 524 is submitted for OZGOOD AZ, MK., 1950.

39. **JUNCTIONS**

   Junctions are in agreement between these manuscripts. In addition junction for T-11094 was made with T-11092 to the north and T-11093 to the west. There were no other junctions to be made.

   Survey T-11371 overlaps survey T-8837 (Ph-111). However, only the shoreline of Herendeen Bay is required at this time.

40. **HORIZONTAL AND VERTICAL ACCURACY**

   See Photogrammetric Plot Report.

41. - 45. Inapplicable.

46. **COMPARISON WITH EXISTING MAPS**

   None available in the office at the time of compilation.

47. **COMPARISON WITH NAUTICAL CHARTS**

   These manuscripts have been compared with Nautical Chart No. 8833, 1:79, 798 published Feb. 1917, and corrected to 6/11/54.

   Items to be applied to Nautical Charts immediately: None.

   Items to be carried forward: None.

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Approved and Forwarded

[Signature]

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

Respectfully Submitted
8 March 1955

[Signature]

B. Kurs,
Carto. Photo. Aid

12
GEOGRAPHIC NAMES LIST

T-11094

Acorn Rock
Alaska Peninsula

Black Point
Bluff Point
Bold Bluff Point
Bold Bluff Reef

Coal Bluff
Coal Creek
Coal Point
Coal Valley
Crow Point
Crow Reef

Eagle Rock
Gull Island

Halftide Rock
Herendeen Bay

Johnston Channel

Low Point
Lyden Creek

Marble Point
Middle Point (Field Photo. 11242)
Midway Reef (From Coast Pilot)
Mine Harbor
Mud Bay

Point Divide

* Shingle Point (Known locally as Shingle Spit)

Village Spit

T-11563

Alaska Peninsula

Bold Bluff Point
Buck Valley

Deer Valley

* Gravel Point (Known locally as Gravel Spit)

Gull Point

Herendeen Bay

Portage Valley Creek

Names approved
5-2-57
ADW
48. GEOGRAPHIC NAMES LIST (cont'd)

T-11571
Alaska Peninsula
Grass Valley
Lawrence Valley

* See pages 44 and 45 of Project Report, Aerial Photograph Control and Inspection N. Shore, Alaska Peninsula, Ph-40(49), June - Sept. 1950.
49. **NOTES FOR HYDROGRAPHER**

The following are the recoverable topographic stations established:

**T-11094**

- MINE, 1950
- OGDON AZ. M.K., 1950

The following are the hydrographic stations located on the manuscripts:

**T-11094**

- 218 Cabin; SW Gable of Cabin.
- 219 Cabin; S Gable of main cabin in group of Small Bldgs.
- 225 Cabin; S Gable of 2nd building E. of Low Point.

**T-11563**

- 220 Cabin; NW Gable of cabin.
- 221 Cannery; NE Gable of N’erly building on Pier.
- 222 Cannery; NE Gable of S’erly building on Pier.
- 223 W gable of lone cabin.

**T-11571**

- 224 Cabin; S. Gable of 2nd building E of low point.

The character of the foreshore areas adjacent to the MHWL has been designated where available from the field inspection. In most cases the limits of the areas were not delineated because of extensive mud flats which bare at MLW.

Pass points have been selected every 3 inches along shoreline to facilitate the location of photo hydro stations, and in compliance with project instructions.
PHOTOGRAFMETRIC OFFICE REVIEW
T-11094, T-11523 & T-11571

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

5. Control stations
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 along
shore 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
   overleaf
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:
DEPARTMENT
OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Baltimore, Maryland  7 March 1955

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 R. Glaser

<table>
<thead>
<tr>
<th>STATE</th>
<th>ALASKA</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>Cabin</td>
<td>S.W. Gable of Cabin</td>
</tr>
<tr>
<td>Cabin</td>
<td>S. Gable of main Cabin in a group of small bldgs.</td>
</tr>
<tr>
<td>Cabin</td>
<td>N. W. Gable of Cabin</td>
</tr>
<tr>
<td>Cannery</td>
<td>N.E. Gable of N'erly Bldg. on Pier</td>
</tr>
<tr>
<td>Cannery</td>
<td>N.E. Gable of S'erly bldg. on Pier</td>
</tr>
<tr>
<td>Cabin</td>
<td>W. Gable of lone cabin</td>
</tr>
<tr>
<td>Cabin</td>
<td>S.W. Gable of main cabin in group of small buildings</td>
</tr>
<tr>
<td>Cabin</td>
<td>S. Gable of second bldg. E. of Low Point</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. Information under each column heading should be given.
62. Comparison with Registered Topographic Surveys

T-3029  1:20000  1910

Shoreline and foreshore features have changed considerably since this survey of 1910 and is superseded by T-973 of common areas for nautical charting purposes.

63. Comparison with Maps of Other Agencies:

PORT HOLLER, ALASKA 1:250000 1953 U.S. Geological Survey. Agreement is as good as scale differences permit.

64. Comparison with Contemporary Hydrographic Surveys:

E-2224  1:20000  1955
E-2225  1:20000  1955
E-2226  1:20000  1955
E-2227  1:20000  1955
E-2228  1:20000  1955

Subject Shoreline Surveys furnished shoreline, foreshore and offshore detailing for above-mentioned hydrographic surveys prior to review. Only limits of shallow and shoal limits were altered in some instances to fit the hydrographic information. A few additions and changes were applied to the shoreline manuscripts during review; however, these did not interfere with corresponding hydrographic surveys or were resolved.

65. Comparison with Nautical Charts:

8233  1:80000  1956 (30 April)

For the fifth Edition of this nautical chart subject shoreline manuscripts were used in its recompilation and there is complete agreement except for scale.

66. Mecury of Results and Future Surveys:

Control and Field Inspection for these shoreline surveys are adequate also for nautical chart purposes. No inaccuracies were indicated.

Reviewed by:

[Signature]
Summary to accompany Shoreline Surveys
T-11091, 11092, 11094, 11095, 11096, 9573, 11563, 11571

These eight shoreline surveys are in the vicinity of Port Keller, Bristol Bay, Alaska, and represent the southernmost portion of Project 25020—Ph 40—(below 56° of latitude). The accompanying index shows the subject shoreline surveys also in relation to adjoining Project 27160. Limits of T-11096 and T-11571 were changed with affected sheets of Project 27160 to form common junctions. A small portion of shoreline and adjacent marsh area in the northeast corner of T-11093 represented all detailing on that manuscript. This information was transferred to T-11094 and T-11093 has been dropped.

Final "Graham" film positives of these manuscripts as well as the descriptive report will be filed in the Bureau Archives.