U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey
SHORELINE (PHOTOGRAMMETRIC)

Field No. Ph-65(50) Office No. T-9643

LOCALITY

State TERRITORY OF ALASKA
General locality SEWARD PENINSULA
Locality MINT RIVER

1949

CHIEF OF PARTY
M. T. Paulson, Field
C. W. Clark, Portland Photogrammetric Office

LIBRARY & ARCHIVES

DATE March 1953
DATA RECORD

T - 9643

Project No. (II): Ph-65(50)  Quadrangle Name (IV): Mint River, Alaska

Field Office (II): Shishmaref, Alaska  Chief of Party: Marvin T. Paulson

Photogrammetric Office (III): Portland, Oregon  Officer-In-Charge: Charles W. Clark

Instructions dated (II) (III): 9 November 1950 (Office)
17 March 1949 (Field) Ph-46(49) and Ph-28(47)

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): None

Date received in Washington Office (IV): JUN 13 1951

Applied to Chart No. Date: Date registered (IV): AUG 8, 1951

Publication Scale (IV): /: 1:20,000

Geographic Datum (III): N.A. 1927

Publication date (IV): JUNE 1951

Vertical Datum (III): Mean High Water

Mean sea level except as follows:
Elevations shown as (2) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

The difference between Unadjusted Datum and N.A. 1927 Datum is Lat. plus/minus 0.2 m
and Long. plus/minus 0.6 m

Reference Station (III): MINT, 1949

Lat. Long. Adjusted Unadjusted X

Plane Coordinates (IV):

Y = Zone: 3

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

Field inspection by (II): J. Andrew Hinely  Date: 6/22/49 to 9/22/49

Planetable contouring by (II):  None  Date: __

Completion Surveys by (II):  None  Date: __

Mean High Water Location (III) (State date and method of location): No field inspection. High-water line of Lopp Lagoon delineated by office inspection 1950 photographs.

Projection and Grids ruled by (IV):  Date: __

Projection and Grids checked by (IV):  Date: __

Control plotted by (III): H.J. Atkins  Date: 3/7/51

Control checked by (III): J.L. Harris  Date: 3/8/51

Radial Plot or Stereoscopic Control extension by (III): J.L. Harris & J.E. Deal  Date: 3/21/51

Stereoscopic Instrument compilation (III): Planimetry  Date: __

Stereoscopic Instrument compilation (III): Contours  Date: __

Manuscript delineated by (III): M.B. Elrod  Date: 4/3/51

Photogrammetric Office Review by (III): Reo H. Barron  Date: 5/31/51

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

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>28007</td>
<td>7/31/50</td>
<td>12:36</td>
<td>1:20,000</td>
<td>1.0 ft. above M.L.L.W.</td>
</tr>
</tbody>
</table>

*NOTE: Tide information is very meager for this area and above stage of tide is only an approximation.*

USCG Camera "O", single-lens, focal length 6 inches

O - 1 RV 8 - RV - 48 14.17 1:59,000
1 RV 17.00
1 RV

Tide (III)

Reference Station: Dutch Harbor, Alaska
Subordinate Station: Port Clarence, Cape Riley, Alaska
Subordinate Station:

Washington Office Review by (IV): L. Martin

Final Drafting by (IV): M. J. Day

Drafting verified for reproduction by (IV): W. E. Hallin

Proof Edit by (IV): L. Martin

Diurnal

<table>
<thead>
<tr>
<th>Ratio of Mean</th>
<th>Spring Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ranges</td>
<td>Range</td>
</tr>
<tr>
<td>2.2</td>
<td>3.7</td>
</tr>
<tr>
<td>1.2</td>
<td>1.4</td>
</tr>
</tbody>
</table>

Date: 11-8-51

Date: 1-31-52

Date: 5-21-51

Date: 5-26-51

Land Area (Sq. Statute Miles) (III): 20.8
Shoreline (More than 200 meters to opposite shore) (III): 1.6
Shoreline (Less than 200 meters to opposite shore) (III): 9.3
Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 1
Recovery: 1
Identified: 1

Number of BMs searched for (II):

Number of Recoverable Photo Stations established (III): 1
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

The position of MINT AZ. MARK was computed in the Portland Photogrammetric Office.
Summary T-9643

This is one of 16 planimetric maps at 1:20,000 scale of project Ph-65(50) covering the coastline of the SEWARD PENINSULA from CAPE DOUGLAS northward to the IKPEK LAGOON at the 66° parallel.

The planimetric survey for Nome is on the southern side of the peninsula and does not adjoin the other maps of this project.

Much of this coastal area has not been previously covered by maps at this large scale.

Information concerning the project in its broader aspects will be included in a project completion report to be compiled at the conclusion of the review of all surveys in this project and will be filed in the Bureau Archives.
FIELD INSPECTION REPORT
Map Manuscript No. T-9643
Project Ph-65(50)

Refer to "Project Report Aerial Photograph Control and Inspection, North Shore Seward Peninsula, Alaska Ph-46(49), Marvin T. Paulson, Chief of Party."

Refer to Descriptive Reports for Topographic Surveys Pt-A, C, and D-50 (1950), Thos. C. Reed CDR. USCGGS Comdg. Ship PIONEER.
PHOTOGRAMMETRIC PLOT REPORT
Map Manuscript No. T-9643
Project Ph-65(50)

The photogrammetric plot report for this map manuscript is part of a combined photogrammetric plot report for Map Manuscripts T-9639 to T-9645 incl. and is included in the Descriptive Report for T-9639 (1949) Project Ph-65(50).
COMPILATION REPORT
Map Manuscript No. T-9643
Project Ph-65(59)

For side headings 31, 32, 34, 37, 39, 40, 46, and 47 refer to the Descriptive Report for Map Manuscript T-9639 (1949) Project Ph-65(50).

Note: There was no topographic survey by the Ship PIONEER furnished for the area of this Map Manuscript. Delete data relative to such a survey where reference is made to the above report.

33: SUPPLEMENTAL DATA:

None

35: SHORELINE AND ALONGSHORE DETAILS:

The waters within the limits of this map manuscript are probably not navigable. The narrow stream bed of Mint River was delineated by office examination of the photographs.

36: OFFSHORE DETAILS:

Not applicable.

38: CONTROL FOR FUTURE SURVEYS:

The position of MINT AZ. MARK was computed from data contained on the pricking card. Form 524 is being submitted for this station and it also is listed under side heading 49: "Notes to the Hydrographer".

Approved:

Charles W. Clark
Officer-in-Charge

Respectfully submitted:

J. Edward Deal, Jr.
Cartographer
The geographic names listed below were obtained from sources as follows:

Nautical Chart No. 9380
World Aeronautical Chart (76) Seward Peninsula
U.S.G.S. Reconnaissance Map of Seward Peninsula

For this part of the project neither a geographic names report nor final names sheets were furnished the Photogrammetric Office.

Lopp Lagoon
Mint River

Names approved
5-22-52
A.J.W.
The position of one recoverable topographic station has been computed at the Portland Photogrammetric Office from data on the pricking card, namely:

MINT AZ. MARK
PHOTOGRAMMETRIC OFFICE REVIEW

T-9649

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. Planetable 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

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.

Compiler

Supervisor

43. Remarks:
2. **Comparison with Registered Topographic Surveys.**

   This is the first large scale survey of this area.

63. **Comparison with Maps of Other Agencies**

   Reconnaissance Map of SEWARD PENINSULA, USGS, 1:500,000, 1918 Reprint 1935.

   TELLER, ALASKA, USGS, 1:250,000 Advance Proof 1951

   Map of SEWARD PENINSULA, Lomen Commercial Company, 1:500,000, no date.

   NOME DISTRICT, Alaska Road Commission, 1:500,000, 1923 corrected to 1943.

64. **Comparison with Contemporary Hydrographic Surveys**

   None.

65. **Comparison with Nautical Charts.**

   Charts 9380 1:400,000 August 1951
   9302 1:1,531,076 December 1950
   9400 1:1,587,870 November 1950

66. **Miscellaneous**

   (a) **FIELD DATA** - northeastward from CAPE PRINCE OF WALES, field inspection and establishment and identification of horizontal control was accomplished and originally included in project Ph-46(49). There was no field edit in this area.

   (b) **POLITICAL BOUNDARIES** - The Territory of Alaska is divided into four judicial divisions and these are then further subdivided into recording districts. All of project Ph-65(50) is within the SECOND JUDICIAL DIVISION, and with the exception of T-9654 (NOYE DISTRICT), all of the surveys are within the PONT CLARENCE DISTRICT.

   (c) **CLASSIFICATION** - Geographic positions of stations in this area are "CONFIDENTIAL" and have been removed from this report. All other material of this survey has the classification "RESTRICTED".
SPECIAL REPORT
Ph-65(50)

Planimetric Mapping Project
Nome to Cape Prince of Wales, Bering Sea, Alaska

Correction from field (unadjusted) datum to North American 1927 was computed for T-9643 through T-9643, as these maps north of Cape Prince of Wales were radial plotted on unadjusted field datum. The correction was computed by converting the old and new positions of the latitude and longitude of the reference station for each map, and was recorded to the nearest one-tenth of a meter, on each registered clothbacked map and its manuscript near the title block, and in each descriptive report near the datum note on page T-1, with the following stamp:

The difference between Unadjusted Datum and N.A. 1927 Datum is Lat. plus/minus 0.2 m. and Long. plus/minus 0.0 m.

However, as the title block of each registered map contained the note, "1927 North American Datum", it was necessary to stamp the word "(Unadjusted)" beside this datum note in the title block of these registered maps.

No correction was necessary for maps T-9644 through T-9654, as they were radial plotted on adjusted N. A. 1927 Datum. Each report lists the name of the Reference Station on that map, but as this area was Classified during review, the positions of these stations are not shown. Since registration, it has been Declassified.

See the Special Report filed with the Completion Report of this project for more details and a project index showing the correction for each map.