**Diag. Cht. No. 9400.**

**Form 504**

**U. S. COAST AND GEODETIC SURVEY**
**DEPARTMENT OF COMMERCE**

### DESCRIPTIVE REPORT

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Topographic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field No. Ph-23(47)</td>
<td>T-9470</td>
</tr>
<tr>
<td>Office No.</td>
<td>T-9471</td>
</tr>
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</table>

### LOCALITY

<table>
<thead>
<tr>
<th>State</th>
<th>Alaska</th>
</tr>
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<tbody>
<tr>
<td>General locality</td>
<td>Kotzebue Sound</td>
</tr>
<tr>
<td>Locality</td>
<td>Baldwin Peninsula</td>
</tr>
</tbody>
</table>

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**1948-51**

**CHIEF OF PARTY**

A. N. Stewart, Chief of Field Party
H. A. Paton, Chief B'more Photo, Office
E. J. Reed, Div. of Photo, Wash., D.C.

**LIBRARY & ARCHIVES**

**DATE** December 16, 1957
DATA RECORD

T-9470 and 9471

Project No. (II): Ph-28(47) Quadrangle Name (IV):

T-9470 = CAPE BLOSSOM
T-9471 = NIMITZ POINT SOUTH

Field Office (II): Portland, Oregon

Chief of Party: A. Newton Stewart

Photogrammetric Office (III): Baltimore, Md.

Radial Plot Hubert A. Paton

Washington, D.C. Compilation Louis J. Reed, Chief

Stereomap Section Copy filed in Division of

Photogrammetry (IV)

Instructions dated (II) (III):

(II) = 21 Apr 48
(III) = 23 Oct 50

Method of Compilation (III): Reading Plotter "B"

Manuscript Scale (III): 1:20,000

Stereoscopic Plotting Instrument Scale (III): 1:20,000

Scale Factor (III): 1:1

Date received in Washington Office (IV):

Data reported to Nautical Chart Branch (IV):

Applied to Chart No. Date:

Date registered (IV): 10 July 1957

Publication Scale (IV):

Publication date (IV): NOV 20 1952

Geographic Datum (III): NA 1927 (Unadjusted)

Vertical Datum (III):

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

Reference Station (III):

Lat.: Adjusted

Long.: Unadjusted

Plane Coordinates (IV):

State: Zone:

Y= X=

MILITARY GRID = UTM, Zone 3, 2500 meter interval.

Roman numerals indicate whether the item is to be entered by (I) Field Party, (II) 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)

100% compiled on the Reading Plotter,
model "B", by the team of:

Louis Levin
and
Arthur B. Zimmerli
DATA RECORD

Field Inspection by (II): A. Newton Stewart Date: 1948

Planetary contouring by (II): None Date:

Completion Surveys by (II): None Date:

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

Field Inspection on these two quads is dated 1948. They were compiled
on the Reading Plotter "S" using the 1948 field inspection.

Projection and Grids ruled by (IV): Jack Allen on the Reading
Ruling Machine Date: 27 Sep 51

Projection and Grids checked by (IV): Howard D. Wolfe Date: 3 Oct 51

Control plotted by (III): Ruth Hartley Date: 2 Nov 51

Control checked by (III): Gilbert B. Torbert Date: 10 Dec 51

Radial Plotting verified by Frank J. Tarcza
Control extension by (III):

Stereoscopic Instrument compilation (III): Planimetry Louis Levin and
and Contours Arthur B. Zimmerli

Manuscript delineated by (III): Arthur B. Zimmerli Date: 23 Oct 52

Photogrammetric Office Review by (III): Louis J. Reed Date: 25 Nov 52

Elevations on Manuscript
checked by (III):

Louis J. Reed Date: 25 Nov 52
Camera (kind or source) (III): USC&GS 9-lens camera, model "B", f = 8.25 inches

PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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<tr>
<td>33926-30</td>
<td></td>
<td>1450 through 1454</td>
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<tr>
<td>33937-39</td>
<td>27 Jun 51</td>
<td>1507 &quot; 1509</td>
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<tr>
<td>33947-49</td>
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Tide (III)

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<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
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<tbody>
<tr>
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</table>

Reference Station: Toy Gans
Subordinate Station: Kiwalik

Washington Office Review by (IV): R. J. Colmer
Final Drafting by (IV): Pat Lach
Drafting verified for reproduction by (IV):
Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): T-9470 = 10 sq mi; T-9471 = 35 sq mi
Shoreline (More than 200 meters to opposite shore) (III): 7 miles and 20 miles
Shoreline (Less than 200 meters to opposite shore) (III): about 7 miles and 17 miles
Control Leveling - Miles (II): none

Number of Triangulation Stations searched for (II): Recovered: Identified: two
Number of BMs searched for (II): none
Number of Recoverable Photo Stations established (III): five
Number of Temporary Photo Hydro Stations established (III): five

Remarks:
Compiled at 1:20,000 scale, from 1:20,000 scale nine-lens photographs taken July, 1950 and June, 1951. For additional nine-lens photography refer to:
Air-photo Index A-38 (1:20,000 scale, taken September 1947) Air-photo Index B-3 (1:28,000 scale taken Sept. 1947) Air-photo Index B-13 (1:20,000 scale, taken September 1947 and August 1948)

For single-lens photography on which some field work was done refer to:
Air-photo Index A-11 (1:27,500 scale, taken August 1948) Air-photo Index A-23 (1:27,500 scale, taken August 1948, and 1:40,000 scale, August, 1950)
Air-photo Index A-24 (1:27,500 scale, August, 1948) Air-photo Index A-35 (1:40,000 scale, August, 1950)

For photography of other agencies on which some field work was done refer to:
Alaskan WAC 54 Index (1949 Naval Petroleum Reserve photography, scale 1:20,000 and 1946 Air-Force TRI-MET photography, scale 1:24,000)
Ph-28(47) covers the eastern shore of the Chukchi Sea in Alaska and runs from Candle on the Kiwalik River on the south to Cape Beaufort to the north.

This project consists of ninety-four topographic quadrangles (T-9402 to T-9434 and T-9436 to T-9496).

T-9470 and T-9471 are surveys of the area containing Cape Blossom and the southern portion of the Baldwin Peninsula.

Each map manuscript consists of one sheet, 7½ minutes in latitude and 20 minutes in longitude, at a scale of 1:20,000, with a contour interval of 50 feet. A cloth backed lithographic print of each map at the compilation scale will be registered with the descriptive report in the Bureau Archives.
FIELD INSPECTION REPORT

2-20:

See separate report entitled:

PROJECT REPORT
AERIAL PHOTOGRAPH CONTROL AND INSPECTION
KOTZERUE SOUND, ALASKA
Project Ph-28(47) July to Sept 1943
A. Newton Stewart, Chief of Party
RADIAL PLOT REPORT

21-30:

See Radial Plot Report included in Descriptive Report for quads T-9466 and T-9467 (combined report). The one radial plot included the area of those two quads as well as the area of the two quads of this report.
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
BALTIMORE PHOTOGRAMMETRIC OFFICE
518 E. 32nd Street, Baltimore-18, Maryland.

14 April 1952

To: The Director
U. S. Coast and Geodetic Survey
Washington-25, D. C.

Subject: Geographic position—CAPE BLOSSOM LIGHT, 1949
Ph-28

The geographic position furnished for subject station on accession G-8695 page 12 is believed to be in error.

This station was identified as a substitute station for BLOSSOM, 1949 and the distance furnished by the field party is approximately the same as computed from the logarithm shown on page 12 of the above accession. The distance however between the geographic positions of these stations does not agree with their logarithms.

Attention is also directed to the possibility of topographic stations EDGE, 1949, DASH, 1949, and MOUTH, 1949 being in error since CAPE BLOSSOM LIGHT, 1949 was used as the initial in the observations for computation of their positions.

Hubert A. Paton
Comdr., C&GS
Officer in Charge
COMPILATION REPORT

31. **Delineation:**

The complete areas of the two quads of this report have been delineated on the Reading Plotter "B". Contours and cultural features were delineated simultaneously.

32. **Control:**

Refer to addendum on page 8; horizontal control was adequate to control the plot. Vertical control consisted mostly of sea-level elevations and was adequate for rectification and contouring purposes. Two elevations on triangulation stations and four on ponds were furnished by the field operations. V-1146 elevation did not agree with instrument datum and has been omitted from the manuscript; the computed elevation was 54ft and the instrument datum for the water surface was about 30ft. All the other field elevations were in agreement and used.

33. **Supplemental Data:**

a. **Elevation Computations:** One bound volume covering the area of plot "F", prepared by the radial plot office, entitled: "TABULATION OF ELEVATIONS AND COMPUTATIONS OF ELEVATIONS BY MAP MANUSCRIPTS FOR VERTICAL CONTROL STATIONS IN THE AREA OF MAP MANUSCRIPTS T-9462, T-9463, T-9465, T-9467, T-9470, T-9471, and T-9475."

b. **Field Inspection Photos:** 20815, 20565, 20895, 20896, 20897, and 20898.

34. **Contours and Drainage:**

Photographic quality was good and no areas of questionable contours are left.

35. **Shoreline and Alongshore Details:**

Only a minimum of shoreline inspection was necessary since the shoreline was very similar throughout. No low-water or shoal lines were indicated, either field or office.

36. **Offshore Details:** Not applicable.

37. **Landmarks and Aids:** Cape Blossom Light on T-9470 was recommended by the field party for a landmark. See form 567, page 12.

38. **Control for Future Surveys:** Two hydro stations, 761 and 762, were field selected and identified in the area of T-9470; three hydro stations, 701, 763, and 764, and five topo stations, ACME, BALD, BEAR, PEAT, and GEAR, all 1948, were picked in the area of T-9471. All ten have been located by the radial plot. SHOE, 1948, on T-9470, was apparently washed away between the time of field edit and the taking of instrument photography, and has been omitted from the manuscript.
39. **Junctions:**

Match edges as shown on the diagram on page 5 are in agreement because all the adjoining sheets were compiled simultaneously with the two of this report.

40. **Horizontal and Vertical Accuracy:**

The horizontal scale of this compilation is 1:20,000 and the accuracy requirements for such a scale map are met. Also, the requirements for 50ft contour interval are met. The area of these two quads is relatively low and for this reason the 25ft supplemental contour has been delineated throughout except along the coastline where low bluffs are generally in existence, and even though the 25ft contours are thought to be accurate to half a 25ft interval, the maps should be considered meeting 50ft accuracy standards.

46. **Comparison with Existing Maps:** Because of the great difference in scale between the following map and those of this report, no reasonable comparison can be made.


47. **Comparison with Nautical Charts:** No comparison is made with the following chart which is so much smaller in scale:


48. **Geographic Name List:** See page 11, this report.

49. **Notes for the Hydrographer:** Refer to separate page following.

50. **Compilation Office Review:** See page 13 following.

Submitted by

Orvis M. Dalbey,
Cartographer-Photogrammetric

Approved by

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer
<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>K</th>
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<tbody>
<tr>
<td></td>
<td>T-9470</td>
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<td></td>
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<td>BALEWIN PENINSULA</td>
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<td>CAPE BLOSSOM</td>
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<td></td>
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<td>14</td>
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</tbody>
</table>

Names approved 10-28-53

Note that this name is used in title T-9471. The extremity of the point is on the sheet to the north of T-9471. Older charts had the point on lat. 66°45'.
I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be charted on (deleted from) the charts indicated.

The positions given have been checked after listing by ____________________________

Louis J. Reed
Chief of Party

<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>CHARTS AFFECTED</th>
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<tbody>
<tr>
<td>CAPE BLOSSOM LIGHT</td>
<td>66 44</td>
<td>83 11 39</td>
<td>29</td>
<td>503.8</td>
<td>1927 T-9470</td>
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</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.
PHOTOGRAMMETRIC OFFICE REVIEW
T. 9470 and 9471

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:
49. Notes for The Hydrographer:

T-9470

a. Topo Stations: None

b. Hydro Stations:

No 761 -- identified and described on photo 20896 as:
"N Tip of bluff on S side of gully."

No 762 -- identified and described on photo 20896 as:
"NW tip of tundra that projects into sand and gravel beach approximately 200m S of a slough."

T-9471

a. Topo Stations:

<table>
<thead>
<tr>
<th>Station</th>
<th>Year</th>
<th>Photo 1</th>
<th>Photo 2</th>
<th>Card</th>
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<tbody>
<tr>
<td>ACHE</td>
<td>1948</td>
<td>20565</td>
<td></td>
<td>524</td>
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<td>BALD</td>
<td>1948</td>
<td>20815</td>
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<td>BEAR</td>
<td>1948</td>
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<tr>
<td>FEAT</td>
<td>1948</td>
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<tr>
<td>GEAR</td>
<td>1948</td>
<td>20895</td>
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<td></td>
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</table>

b. Hydro Stations:

No 701 -- identified and described on photo 20565 as:
"A point of bluff about 50ft above LWL which is also AZ PT for Topo Sta BEAR, 1948. The bluff has a slide area on the SW side."

No 763 -- identified and described on photo 20896 as:
"SW corner of small black cabin with shed roof."

No 764 -- identified and described on photo 20896 as:
"NW tip of bluff on S side of a large gully at an angle to the shoreline."
62. Comparison with Registered Topographic Surveys.— None

63. Comparison with Maps of Other Agencies.—
   USGS Alaska Map, Kotzebue 1:250,000, 1951 edition
   Comparison not feasible due to great difference in scale.

64. Comparison with Contemporary Hydrographic Surveys.— None

65. Comparison with Nautical Charts.—
   9400  1:1,587,870   June 1950
   9402  1:750,000   May 1950
   Scale difference precludes a satisfactory comparison.

66. Adequacy of Results and Future Surveys.—These maps comply
    with project instructions and are adequate as bases for hydro-
    graphic surveys and the construction of nautical charts.

Reviewed by:

E. J. Colner

APPROVED:

L. G. Lande
Chief, Review Branch
Div. of Photogrammetry

Chief, Div. of Photogrammetry

Chief, Nautical Chart Branch
Division of Charts

Chief, Div. of Coastal Surveys

Dec 11, 1957