

9470

9471

Diag. Cht. No. 9400.

Form 504

## U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey Topographic

T-9470

Field No. Ph-28 (47) Office No. T-9471

## LOCALITY

State AlaskaGeneral locality Kotzebue SoundLocality Baldwin Peninsula1948-51

## CHIEF OF PARTY

A.N. Stewart, Chief of Field PartyH. A. Paton, Chief B'more Photo. OfficeL.J. Reed, Div. of Photo. Wash., D.C.

LIBRARY &amp; ARCHIVES

DATE December 16, 1957

B-1870-1 (1)

9470 • 9471  
9470 • 9471

## DATA RECORD

T-9470 and 9471

Project No. (II): Ph-28(47)      Quadrangle Name (IV): T-9470 = CAPE BLOSSOM  
 T-9471 = NIMIUK POINT SOUTH

Field Office (II): Portland, Oregon

Chief of Party: A. Newton Stewart

Photogrammetric Office (III): Baltimore, Md  
 Washington, D.C.

Radial Plot Hubert A. Paton  
 Officer in Charge: Louis J. Reed, Chief,  
 Compilation 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):

NOV 20 1952

Date reported to Nautical Chart Branch (IV):

NOV 28 1952

Applied to Chart No.

Date:

Date registered (IV): 10 July 1957

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III):

NA 1927

(unadjusted)

Vertical Datum (III):

Mean sea level except as follows:

Elevations shown as (25) 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.:

Long.:

Adjusted

UTM (DS152)

Plane Coordinates (IV):

State:

Zone:

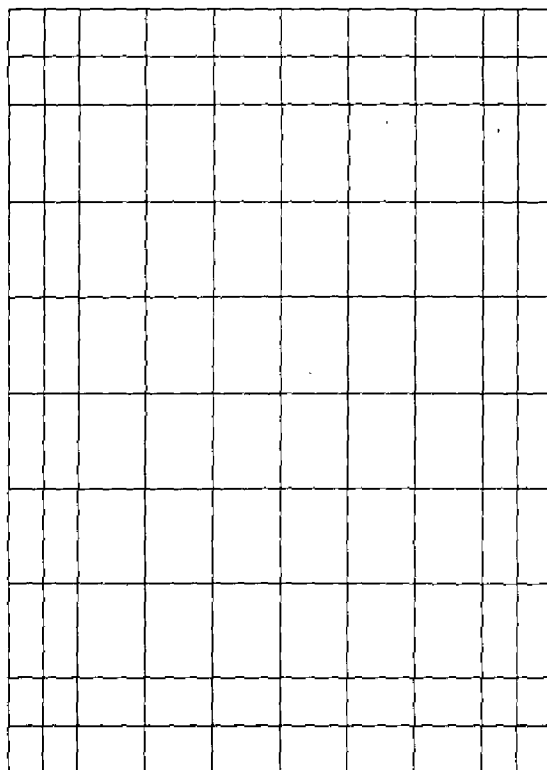
Y=

X=

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

Roman numerals indicate whether the item is to be entered by (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)  
 (III)

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

Planetable 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 "B" using the 1948 field ~~Inspection~~ *Inspection* of the shoreline on photographs during Instrument delineation as a guide. *was done using 9 lens photos taken in 1951*

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 Plot ~~on Stereoscope~~

Gilbert B. Torbert

Date: 14 Dec 51

Control extension by (III): verified by Frank J. Tarcoza

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

Date: 17 Jun 52

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 (II) (III): Louis J. Reed

Date: 25 Nov 52



Camera (kind or source) (III): USC&amp;GS 9-lens camera, model "B", f = 8.25 inches

Number	Date	PHOTOGRAPHS (III) Time	Scale	Stage of Tide
33926-30		1450 through 1454		
33937-39	27 Jun 51	1507 " 1509	20,000	<del>no tide</del>
33947-49		1520 " 1523		- 1 ft.

Tide (III)

Reference Station:  
Subordinate Station:  
Subordinate Station:

~~Icy Cape~~  
Kiwalik

diurnal		
Ratio of Ranges	Mean Range	Spring Range
		.6
		2.7

Washington Office Review by (IV): B. J. Colner

Date: 10-28-53

Final Drafting by (IV): Pat Lach

Date: 12-28-55

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

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: X two

Number of BMs searched for (II): none

Recovered:

Identified:

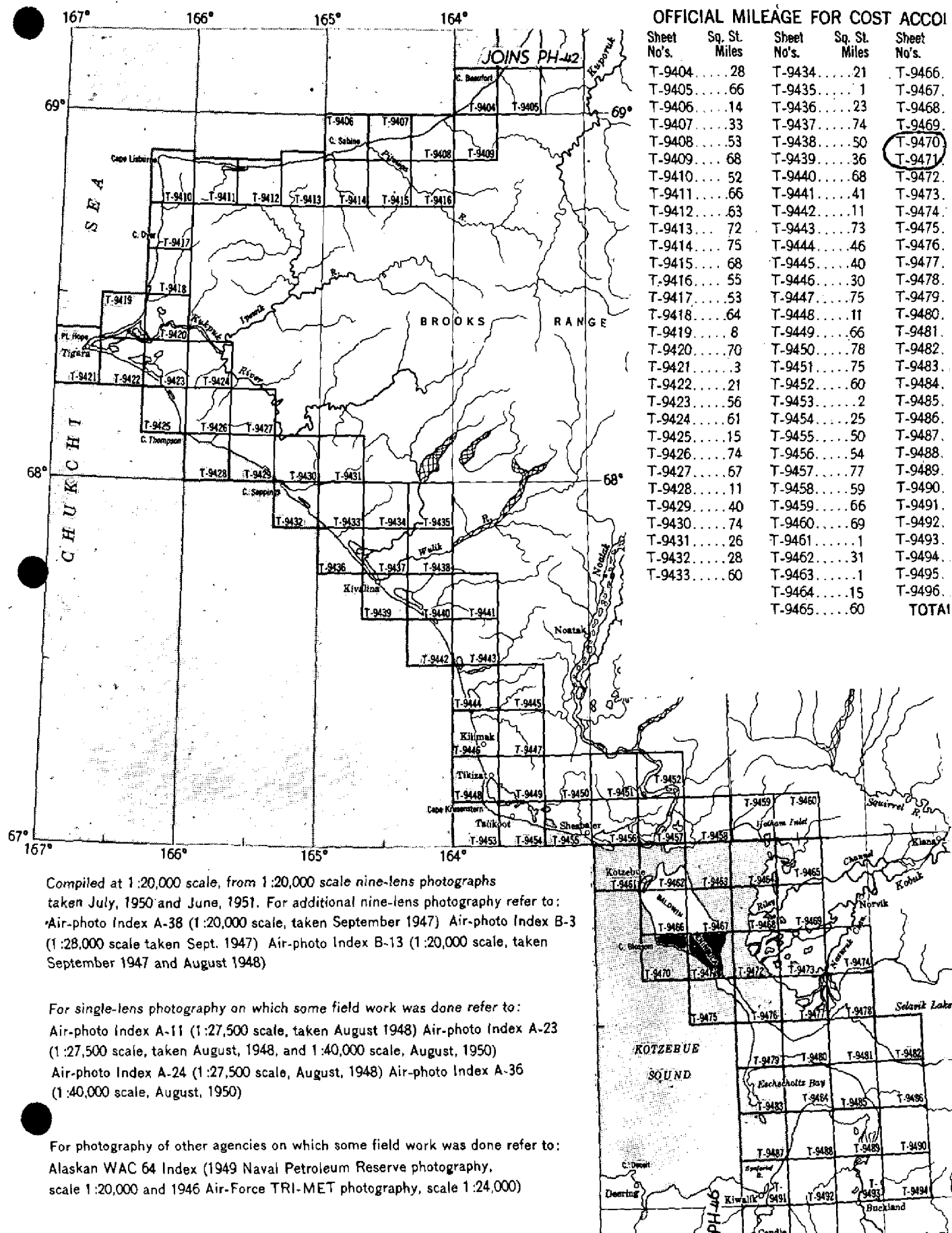
Number of Recoverable Photo Stations established (III): five

Number of Temporary Photo Hydro Stations established (III): five

Remarks:

## TOPOGRAPHIC MAPPING PROJECT PH-28

ALASKA, Chukchi Sea, Kivalik to C. Beaufort



Summary to Accompany T-9470 and T-9471

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-<sup>four</sup>~~two~~ 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,  $7\frac{1}{2}$ -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

KOTZEBUE SOUND, ALASKA

Project Ph-28(47)      July to Sept 1948

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.

COPY

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

BALTIMORE PHOTOGRAMMETRIC OFFICE  
518 E. 32nd Street, Baltimore-18, Maryland.

*Notified Geodesy  
& corrected  
BGC.*

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

n



COMPILATION REPORT31. 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 ~~aido-heading 27~~ on page 8; horizontal control ~~was~~ 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 ~~xxxx~~ 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-9466, 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 thruout. 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, ACHE, BALD, BEAR, FEAT, 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 thruout 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.

"KOTZEBUE, Alaska, Alaska Reconnaissance Topographic Series, Second Judicial Division, USGS, 1:250,000, 1951 edition."

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

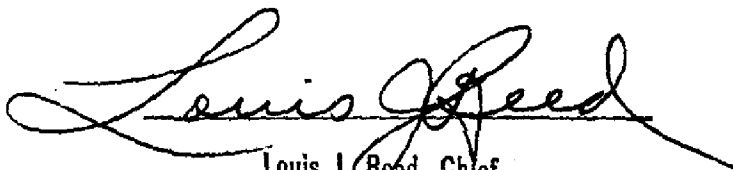
"ARCTIC COAST, Alaska, No 9400, 1:1,587,870, May 1946, 6th edition, last correction date of 27 Nov 1950."

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 N. Dalbey,  
Cartographer-Photogrammetric

Approved by

  
Louis J. Reed, Chief  
Stereoscopic Mapping Section  
Photogrammetric Engineer



## Survey No.

Name on Survey

Page 11

GEOGRAPHIC NAMES											
Survey No.											
T-9470 & T-9471											
Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K		
<u>T-9470</u>											1
<u>BALDWIN PENINSULA</u>											2
<u>CAPE BLOSSOM</u>											3
<u>KOTZEBUE SOUND</u>											4
											5
											6
											7
											8
<u>T-9471</u>											9
<u>BALDWIN PENINSULA</u>											10
<u>HOTHAM INLET</u>											11
<u>KOTZEBUE SOUND</u>											12
											13
											14
<u>Nimruks Point</u>											15
											16
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											26
											27

Page 11

**STRIKE OUT ONE**

# Stereoscopic Mapping Station,

Div of Photogrammetry, Washington, D.C.

1967 Nov 15

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:

[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.



## 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 along-shore 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. ☒ *[Signature]*  
Reviewer

*[Signature]*  
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:

49. Notes for The Hydrographer:

T-9470

a. Topo Stations: None

b. Hydro Stations:

No 761 -- identified and described on photo 20898 as:  
"N Tip of bluff on S side of gully."

No 762 -- identified and described on photo 20898 as:  
"NW tip of tundra that projects into sand  
and gravel beach approximately 200m S of  
a slough."

T-9471

a. Topo Stations:

		Photo		
ACHE, 1948	-- identified	on 20565,	described on 524	card
BALD, 1948	-- "	on 20815,	"	"
BEAR, 1948	-- "	on 20565,	"	"
FEAT, 1948	-- "	on 20895,	"	"
GEAR, 1948	-- "	on 20896,	"	"

b. Hydro Stations:

No 701 -- identified and described on photo 20565 as:  
"A point of bluff about 50ft above MHW 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."



Review Report T-9470 and T-9471  
Topographic Maps  
October 28, 1953

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 hydrographic surveys and the construction of nautical charts.

Reviewed by:

B. J. Colner  
B. J. Colner

APPROVED:

H. C. Lande  
Chief, Review Branch  
Div. of Photogrammetry

hew Swanson  
Chief, Div. of Photogrammetry

Dec 11, 1957

W. B. K. K. K.  
Chief, Nautical Chart Branch  
Division of Charts

B. J. K. K.  
Chief, Div. of Coastal Surveys