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Diag. ent. No. 9400.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic
Field No. Ph-28(47) Office No. T-9448 thru T-9452

LOCALITY

State Alaska
General locality Kotzebue Sound
Locality Cape Krusenstern

1945

CHIEF OF PARTY

L.G. Taylor, Chief of Field Party
H.A. Paton, Chief Balto. Photo. Office
L.J. Reed, Div. of Photo., Wash., D.C.

LIBRARY & ARCHIVES

DATE May 15, 1958

DATA RECORD

T-9448 thru T-9452
 T-9448 = TOOLILIK LAKE ~~TALIKOOT VILL~~
 T-9449 = TALIKOOT VILLAGE
 T-9450 = ~~SIMIK MOUNTAIN~~ KAKSURUK MT
 T-9451 = MUMAYLUK CREEK
 T-9452 = NOATAK RIVER

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

Field Office (II): Kotzebue Sound, Alaska Chief of Party: Lorne G. Taylor

Photogrammetric Office (III): Baltimore, Md.
 Washington, D.C. Officer-in-Charge: Hubert A. Paton
 Louis J. Reed, Chief,
 Stereoscopic Mapping Sec

Instructions dated (II) (III):
 (II) = 21 Apr 48
 (III) = 23 Oct 50
 Copy filed in Division of
 Photogrammetry (IV)

Method of Compilation (III): Reading Plotters, both models, A and 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): SEP 10 1951 Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 21 June 1957

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): NA 1927 (readjusted)

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

~~unadjusted~~

Plane Coordinates (IV):

State:

Zone:

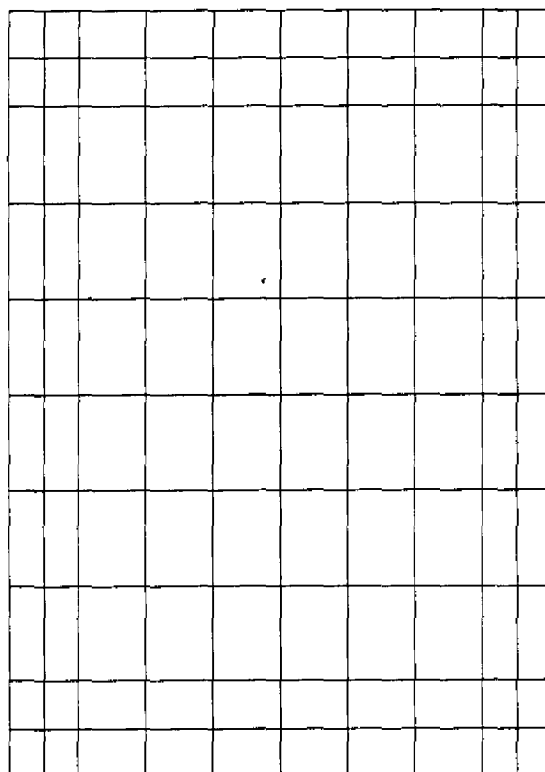
Y=

X=

MILITARY GRID: Universal Transverse Mercator, Zone No. 3.

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)

(X) (III)

T-9448 and T-9449 delineated by Clarence E. Misfeldt
 T-9451 and T-9452 delineated by Louis Levin
 T-9450 partially delineated by each of the above men.

DATA RECORD

Field Inspection by (II): **Lorne G. Taylor** Date: **1950**

Planetable contouring by (II): **none** Date:

Completion Surveys by (II): **none** Date:

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

MHWL was delineated on the plotting instruments guided by 1950 field location of the shoreline on photographs; therefore the MHWL is dated 1950.

Projection and Grids ruled by (IV): **Theodore L. Janson on the Reading Ruling Machine** Date: **29 Nov 50**

Projection and Grids checked by (IV): **Harland R. Cravat** Date: **5 Dec 50**

Control plotted by (III): **John G. Richter** Date: **22 Dec 50**

Control checked by (III): **Frank J. Tarcsa** Date: **22 Dec 50**

Radial Plot on ~~Sketchbook~~ **Frank J. Tarcsa** Date: **19 Feb 51**
~~Sketchbook~~ by (III):

delineation by ~~Sketchbook~~ **Louis Levin** Date:
 Stereoscopic Instrument ~~operation~~ (III): **and** **and** **14 Aug 51**
 Contours **Clarence E. Misfeldt** Date:

compiled **John B. McDonald (9450, 1, 2)**
 Manuscript ~~operation~~ by (III): **and** Date: **30 Aug 51**
Frank J. Lesslie (9448, 9)

Photogrammetric Office Review by (III): **Louis J. Reed** Date: **10 Sep 51**

Elevations on Manuscript **Louis J. Reed** Date: **10 Sep 51**
 checked by (III):

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

Number	Date	PHOTOGRAPHS (III) Time	Scale	Stage of Tide
27566		1110-		
thru		1123		
27579		1143-		
27594	22	1152	1:20,000	appreciable
thru	July			no tide
27603	1950	1206		
27609		1207		
27610		1513		
27756		1514		
27757				

NOTE: Mr Disney of Tides & Currents states (7 May 51) that for all practical purposes no tide exists in this area.

Tide (III)

diurnal

Reference Station:
Subordinate Station:
Subordinate Station:

~~Icy Cape~~

Ratio of Ranges	Mean Range	Spring Range
		0.6

Washington Office Review by (IV):

Final Drafting by (IV):

F. Johnson T-9448
R. Hildebrand T-9449
P. Lach T-9450
H. Frozier T-9452
R. Hildebrand T-9451

Date:

4-11-56
4-8-56
4-2-56

Drafting verified for reproduction by (IV): W.O. Halluin

Date: 7-16-56

Proof Edit by (IV):

Date:

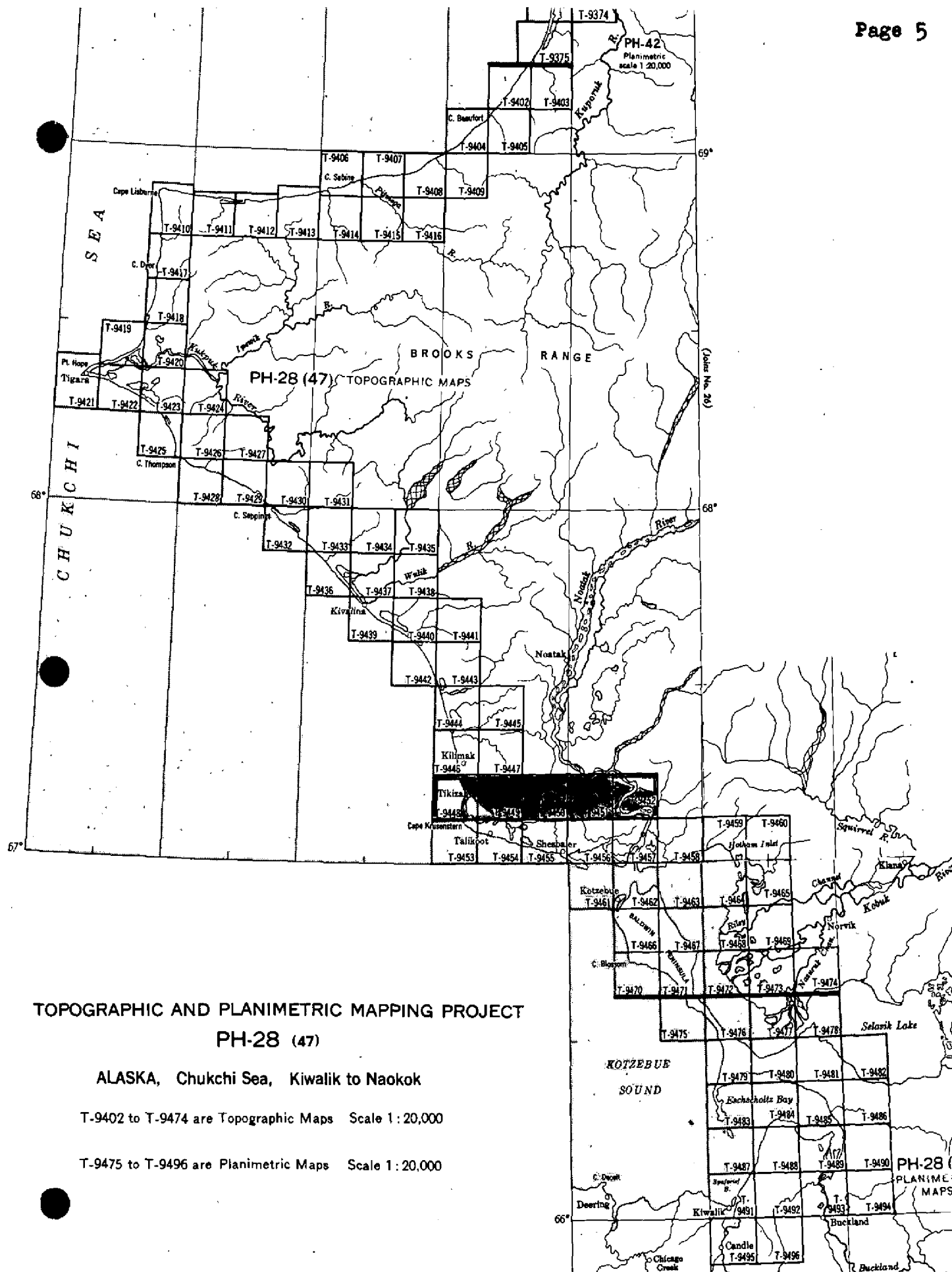
Land Area (Sq. Statute Miles) (III): See remarks below
Shoreline (More than 200 meters to opposite shore) (III): See remarks below
Shoreline (Less than 200 meters to opposite shore) (III): ~~none~~ See remarks below
Control Leveling - Miles (II): none
Number of Triangulation Stations searched for (II):
Number of BMs searched for (II): none
Number of Recoverable Photo Stations established (III): One
Number of Temporary Photo Hydro Stations established (III): One

Recovered:
Recovered:

Identified: Six
Identified:

Remarks:

	AREA	MHWL	RIVER LINE
T-9448 =	11 sq mi	9 miles	none
T-9449 =	66 sq mi	17 miles	none
T-9450 =	78 sq mi	none	none
T-9451 =	75 sq mi	none	none
T-9452 =	60 sq mi	none	55 miles



Summary to Accompany T-9448 through T-9452

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.

~~Seventy three of the quadrangles (T-9402 to T-9474)~~
~~of this project are topographic surveys and twenty two~~
~~(T-9402 to T-9434) are planimetric, and T-9436 through T-9496)~~
~~in this project.~~

T-9448 through T-9452 are topographic surveys extending from the Evelookpalik River on the west to the Noatak River on the east. The quadrangles fall in about the middle of the project and contains the Millowercawlook River, the village of Talikoot, the Sittookooyook River, the Mumayluk River, the Suninuk Creek and the Igichuk Hills.

The 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

CAPE KRUSENSTERN TO POINT HOPE, ALASKA

Project Ph-28(47) June to Sept 1950

Lorne G. Taylor, Chief of Party

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

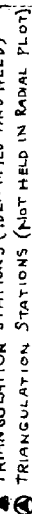
RADIAL PLOT REPORT

20-30:

See descriptive report for quadrangles T-9453 thru T-9457 (a single report covering all five quads), or see a similar combined report covering quads T-9461 and T-9462. A single radial plot was laid covering the area of all seven of the above manuscripts plus the area of the five sheets of this report. A single report for the plot was written by the Baltimore Photogrammetric Office and it may be found in either of the aforementioned reports beginning on page eight.

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

▲ V-201



COMPILATION REPORT31. Delineation:

Contours and cultural features were delineated simultaneously on the Reading Plotter, models A and B. Model A worked eastward from the western end of the strip of quads, while model B was working westward from the opposite end. (See diagram, page 5 or 9) The entire land area of only three of the five quads of this report has been delineated in this operation; they are the western three, T-9448, T-9449, and T-9450. T-9451 lacks a small area of two or three sq mi in the NE corner of being complete, and T-9452 lacks a strip along the north border of the quad amounting to about one quarter of the entire area of the map.

There is an exception to the above statements regarding complete coverage; several small clouds less than half the size of a dollar bill existed in the photos on two of the quads, resulting in corresponding areas of poor delineation quality. The solution to this exception may be found in side-heading 34 below.

32. Control:

Adequacy of control is discussed in detail in side-heading 23 of this report's radial plot report. The conclusion is drawn that the spacing of control was such that the area of T-9452 and some of T-9451 is not as strong as the balance of the plot area, but is considered to be within the desired accuracy.

The spacing of vertical control on this plot area was found to be as near the requirement as on any other project worked in this section. The chief failing was in no-check elevations leaving gaps in the network here and there, especially along the north side of the project which is farthest inland.

33. Supplemental Data:

a. Graphic Control Surveys: None

b. Hydrographic Surveys: None

c. Plotting Instrument Photos(metal-mounts):

27566 thru 27579, 27594 thru 27603, 27609, 27610, 27756, and 27757.

d. Field Inspection Photos:

20575 thru 20579, 20751 thru 20756, 20761 thru 20766, 20820 thru 20822, 20827 thru 20829, and 20914 thru 20915.

33. Supplemental Data(contd):

e. Vertical Control Book:

"Tabulation of elevations by surveys and computations of elevations for vertical control stations in the areas of surveys T-9448 thru T-9457, and T-9461 and T-9462."

34. Contours and Drainage:

Photograph quality was very good for contouring purposes except for small cloud interference as mentioned under "Delineation" on page 10. The areas obscured by these small individual clouds were all delineated on the instruments except for two, one on each quad, T-9450 and T-9451, these two cloud areas being left blank on the manuscripts. The cloud areas that were delineated anyhow are shown in the dashed symbol for doubtful accuracy. Otherwise, no areas of questionable contours exist.

35. Shoreline and Alongshore Details:

Shoreline exists on only two of the five quads of this report, T-9448 and T-9449. It is very smooth and regular shoreline and easy to photo-identify; the job was well done. No low-water-line was identified because of the lack of tide in this vicinity.

36. Offshore Details: None exist.37. Landmarks and Aids: See form 567 in Field Inspection Report.38. Control for Future Surveys:

One Topo Station, NECK 1950, and one Hydro Station, No.150, were located on T-9448 by the radial plot and are shown on the manuscript in proper label and name. No stations of either type were selected in the field in the area of the other four quads of this report. Details of the two stations mentioned above will be found on a separate page of this report entitled "Notes to the Hydrographer", side-heading 50.

39. Junctions:

All junctions are in agreement. The five quads immediately to the south of the five quads of this report, T-9453 thru T-9457, from west to east, were previously completed and their north edges transferred to the south edges of T-9448 thru T-9452 respectively; therefore those five junctions have to be in agreement. No quad exists to the east of T-9452 - no problem. To the west of T-9448 one finds only the Chukchi Sea - no problem there either. On the north only two quads exist, T-9446 above T-9448, and T-9447 above T-9449; These two edges have been transferred to the two north quads which will be completed soon.

40. Horizontal and Vertical Accuracy:

- a. Horizontal: All contours meet the standards for a 50 ft contour interval. One contour is considered to be more accurate; the 25 ft contour meets the standards for a 25ft contour interval.
- b. Vertical: All instrument elevations are shown in brown, underscored. All trig elevations are also shown in brown; they are underscored if not checked by one or more observations.

41. Intersection Station Elimination:

The field position for PEAK 321, 1948 (on T-9452) was found to be in error during the radial plot - see detailed account of the findings in side-heading 23 on page 9 of the Radial Plot Report.

Therefore this station has been omitted from the manuscript and the radial plot position of the peak is shown with the original name, Peak 321.

46. Comparison with Existing Maps:

- a. Advance proof of NOATAK, Alaska, USGS, Reconnaissance Topographic Series, Second Judicial Division, 1:250,000, 1951 edition.
- not in the
area of the
project. ~~b. Advance proof of BAIRD MOUNTAINS, same as Noatak above.~~
- ~~c. Compilation copy of TIGARA, 1:200,000, USGS.~~
Bint Hope

47. Comparison with Nautical Charts:

- a. ARCTIC COAST, Alaska, No 9400, 1:1,587,870, May 1946, 6th edition, last correction date of 27 Nov 50.
- b. Provisional Chart, CAPE PRINCE OF WALES TO POINT BARROW, CHUKCHI SEA, Alaska-Arctic Coast, No 9402, 1:750,000, May 1950, 1st edition.

48. Geographic Name List: See separate numbered page, following.

49. Notes for the Hydrographer: See separate unnumbered page.

50. Compilation Office Review: See T-2 form, following.

Submitted By:

Orvis N. Dalbey
Orvis N. Dalbey
Cartographer-Photogrammetric

Approved and Forwarded by:

Louis J. Reed
Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

GEOGRAPHIC NAMES

Survey No.

T-9448 thru T-9452

Name on Survey

	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
A	B	C	D	E	F	G	H	K	
<u>T-9448</u>									1
CAPE KRUSENSTERN									2
CHUKCHI SEA									3
EVELOOKPALIK RIVER									4
TOOLIK LAKE									5
<u>T-9449</u>									6
EIGALORUK MT									7
EVELOOKPALIK RIVER									8
INGITCAHLIK MT									9
KASIK LAGOON									10
KIMIROOK HILL									11
KISLOWRUT HILLS									12
MILLOWCRAWLOOK MT									13
MILLOWCRAWLOOK RIVER									14
SIMIK MT									15
TALIKOOT (Village) (Abandoned)									16
TIYAKTALIK MT									17
<u>T-9450</u>									18
ANKARGICHEK MT									19
IGICHUCK HILLS									20
KAKSUROK MT									21
SITTOOKOYOOK RIVER									22
<u>T-9451</u>									23
IGICHUCK HILLS									24
IGISOOGROOK MT									25
MUMAYLUK CREEK									26
MUMAYLUK MT									27
NOATAK RIVER									28
OVINGORIUK MT									29
KAKSUROK MT									30
<u>T-9452</u>									31
AKOBLOC CREEK									32
AMORTUK CANYON									33
ELAYPUK MT									34
IGACHOROK MT									35
MUMAYLUK MT									36
MUMAYLUK RIVER									37
NOATAK RIVER									38
OVINGORIUK MT									39
SUKISALNUK POINT									40
SUNINUK CREEK									41

name approved
5-6-53
8/10

also on T-9450

Names approved 6-23-53

Names approved 6-23-53

Names approved 6-23-53

Igachorok River

name of Igachorok
limits of manuscript

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

Names approved 6-23-53

L. Reed

⁴⁹
~~50~~. Notes for the Hydrographer: (stations on T-9448 only)

a. Topo Stations:

NECK 1950; Identified on photo No.20,827, and described on Control Identification Card. Also, see K-20 field photo of the station.

b. Hydro Stations:

No.150; Identified on photo No.20,580.

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

Review Report T-9448 through T-9452
Topographic Maps
June 24, 1953

62. Comparison with Registered Topographic Surveys. - None

63. Comparison with Maps of other Agencies. -

USGS Alaska Map, Noatak 1:250,000 1951 Edition

Comparison not satisfactory because of scale difference.

64. Comparison with Contemporary Hydrographic Surveys. - None

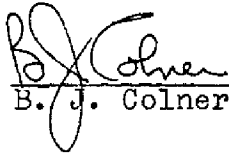
65. Comparison with Nautical Charts. -

9400	1:1,587,870	June 1950
9402	1:750,000	May 1950

Comparison not possible with these charts because of scale difference.

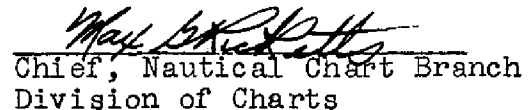
66. Adequacy of Results and Future Surveys.- These maps comply with project instructions and are adequate as bases for hydrographic surveys and the construction of nautical charts.

Reviewed by:

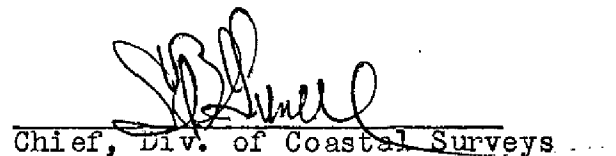

B. J. Colner

APPROVED


Chief, Review Section
Div. of Photogrammetry


Chief, Nautical Chart Branch
Division of Charts


Chief, Div. of Photogrammetry


Chief, Div. of Coastal Surveys

PHOTOGRAMMETRIC OFFICE REVIEW

T. 9448 thru 9452

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. ☒

41. Remarks (see attached sheet)

Supervisor, Review Section or Unit

Louis J. Reed, Chief

Stereoscopic Mapping Section

Photogrammetric Engineer

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:

M-2623-12