Form 504 U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

#### DESCRIPTIVE **REPORT**

Type of Survey <b>Topo</b>	graphic
Field No.	T-9044  Office No. T-9045
LC	CALITY
State Alaska	<u>a</u>
General locality Brist	ol Bay
Locality Upper	Kulukak Bay
	1947

CHIEF OF PARTY

A. Newton Stewart, Chief of Field Party Charles W. Clark, Chief of Portland Photo Office Div. of Photogrammetry, Washington, D.C. LIBRARY: & ARCHIVES

DATE February 18, 1955



#### DATA RECORD

T 9044 & 9045

Project No. (II): Ph8B(46)

Quadrangle Name (IV):

T-9044 = KULUKAK T-9045 = KANIK RIVER

Field Office (II):

Bristol Bay, Alaska

Chief of Party: A. Newton Stewart

Photogrammetric Office (III): Portland, Oregon ashington, D.C.

Radial Plot = Charles W.Clark
Compilation = Louis J.Reed, Chief,
Stereo-map Section
Copy filed in Division of

Photogrammetry (IV)

Instructions dated (II) (III):

(II) = 25 Apr 47 and 21 Apr 48 (III) = 19 Mar 48 and 4 Feb 49

Method of Compilation (III):

Reading Plotter

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)?? 4 - 1959 Date reported to Nautical Chart Branch (IV):

APR 8

Applied to Chart No.

Date:

Date registered (IV):

7 Jan. 1955

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III):

NA 1927

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

The difference between Unadjusted Datum Reference Station (III): and N.A. 1927 Datum is Lat. plus/mand Long. and Long. Zm.

Lat.:

Long .:

Plane Coordinates (IV):

State:

NA-1927

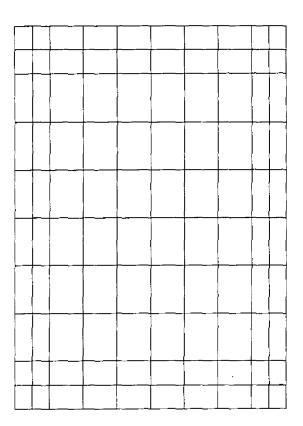
Zone:

Y=

Military Grid = none Other Grids

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)

(H) (III)

100% compiled on the Reading Plotter, model A, by Clarence E. Misfeldt

#### DATA RECORD

Field Inspection by (II): A. Newton Stewart

Date: 1947-8

Planetable contouring by (II): None Date:

Completion Surveys by (II):

None

Date:

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

MHWL is dated 1947 since it was photo-identified during that year. It has been compiled on the Reading Plotter using this field identification as a guide.

Projection and Grids ruled by (IV): Theodore L.Janson on the Date: 19 Oct 50  $\begin{array}{c} \text{Reading Ruling Machine} \\ \text{Projection and Grids checked by (iV): } & \text{Harland } & \text{R. Cravat} \end{array}$ Date: 20 Nov 50

Date: Control plotted by (III): Carita C. Wiebe 27 Dec 50

Date: 27 Dec 50 Control checked by (III): Marie B. elrod

Radial Plot granter James L. Harris and Roy A. Davidson Date: 4 Jun 51 Gontrot extension by (III):

Date: **Planimetry** delineation by Stereoscopic Instrument company Clarence E.Misfeldt 6 Mar 52 Date: Contours -

Manuscript Neursales by (III): Henri Lucas 28 Mar 52

4 Apr 52 Photogrammetric Office Review by (III): ~ouis J. Reed

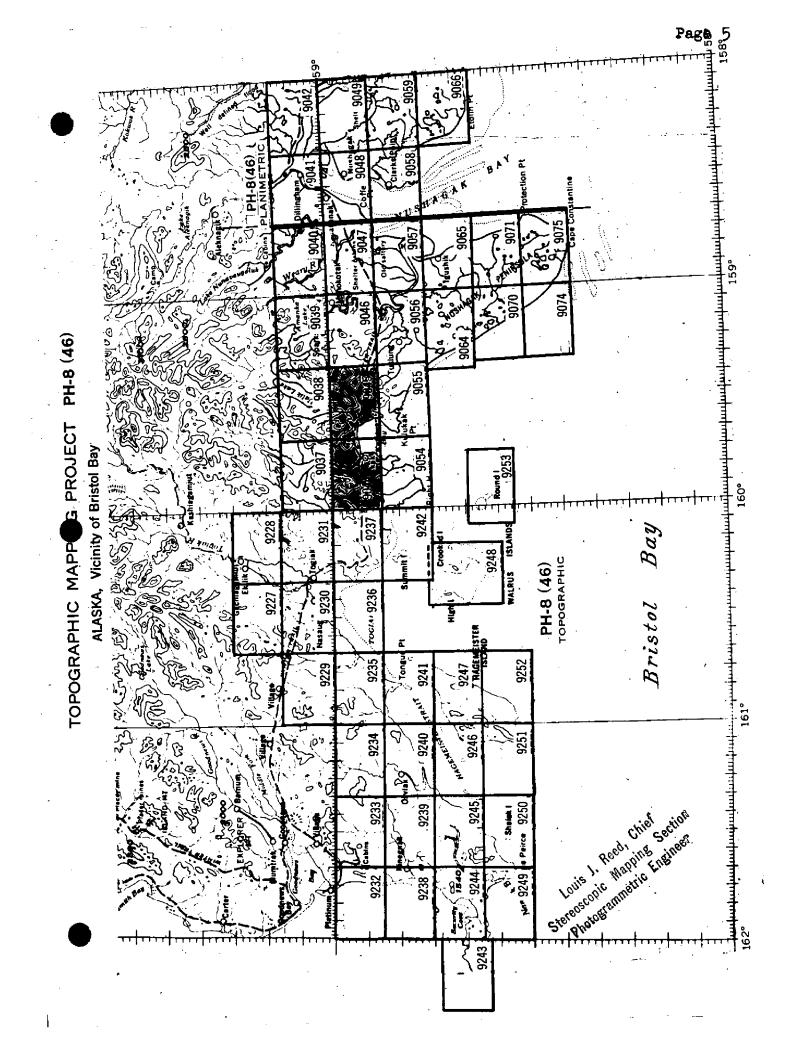
Date: Elevations on Manuscript Louis J. Reed 4 Apr 52

checked by (M) (III):

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

		PHOTOGRAPHS (II	<i>t</i> )	
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er i e di tu di	Dn () Day			F9044 - 5/3/54 Date: 7-9045 4113/54
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	•	-		Date:
Proof Edit by (IV):				Date.
	itute Miles) (III): T-			
	an 200 meters to oppos			T-9045 = 11 m1
·	an 200 meters to oppos	site shore) (III): T-9	1044 = 2  m1;	T-9045 = 20 mi
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Number of BMs se			Recovered:	
	rable Photo Stations est	rablished (III):	;-9044 = 2; -9044 = 7;	T-9045 = 2
Number of Tempor	ary Photo Hydro Station	ns established (III): 4	· <b>-</b> 9044 = 7;	1 <del>9</del> 9045 = 4

Remarks:



Ph-8(μ6) covers the north shore of Bristol Bay in Alaska and runs from the Egegik River and Kvichak Bay on the East to Cape Newenham on the West.

It is divided into three parts as follows:

Ph-8(46) A includes 23 planimetric maps in the general area of Kvichak Bay and extends from Egegik Bay to Nushagak Bay.

Ph-8(46) B is composed of two shoreline surveys on the Egegik River between Egegik Bay and Lake Becharof.

Ph-8(46) includes 45 topographic maps covering the area from Nushagak Peninsula westward to Cape Newenham and north to Goodnews Bay. It includes offshore islands such as Hagemeister and the Walrus Islands.

T-9044 and T-9045 are in the central portion of the project. These maps border on Kulukak Bay. Т-9044 contains Kulukak River and T-9045 contains Kanik River.

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 clothbacked lithographic print of each map at the compilation scale will be registered with the combined Descriptive Report in the Bureau Archives. These maps will not be published.

#### FIELD INSPECTION REPORT

2-20:

See two separate reports entitled:

PROJECT REPORT

AERIAL PHOTOGRAPH CONTROL AND INSPECTION BRISTOL BAY, ALAKSA

Project Ph-8(46) May to July 1948

Library No 1 12 A. Newton Stewart, Chief of Party and

PROJECT REPORT

AERIAL PHOTOGRAPH CONTROL AND INSPECTION BRISTOL BAY, ALASKA

Project Ph-\$(46) May to Sep 1947

hibrary No 138 A. Newton Stewart, Chief of Party

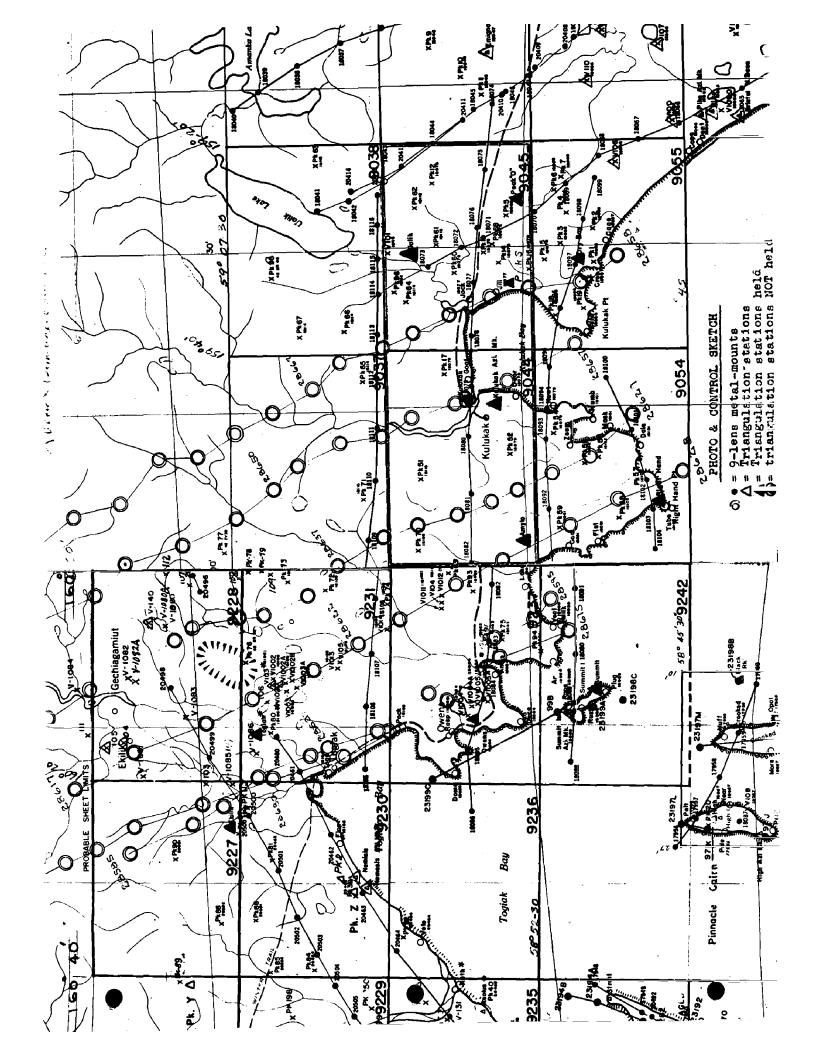
> Louis J. Reed, Chief Stereoscopic Washing Section bhotogrammetric Eugineer, michhing Pering

#### RADIAL PLOT REPORT

20-30:

See descriptive report to accompany map manuscript T-9237. It includes, beginning on page 5, the radial plot report covering the area of the two quads of this report plus the area of several others, the total area of which was controlled by a single radial plot.

Stereoscopic Napping Section Photogrammetric Engineer



#### COMPILATION REPORT

#### 31: Delineation:

All contours and cultural features were delineated simultaneously on the Reading Plotter, model "A". Photo coverage was complete although just barely so in the NE third of T-9045 where photos of a former year were used to complete the coverage. The shoreline was covered by field inspection but/as adequately as is expected today. The entire land area of both quads has been delineated.

#### 32. Control:

The adequacy of Horizontal control for the radial plot covering this area is discussed in the plot report; see T-9237, and note the control sketch on page 9 mof this , report. A lack of such control in the back areas tended to weaken the plot, but a satisfactory plot was produced.

Vertical control for contouring purposes was furnished in the form of sea-level elevations at the shoreline, and trig elevations on peaks in the interior. The major part of these two quads is back from the coast and therefore peak elevations controlled the major portion of the contouring; the quality and number of such peak elevations was very weak for the instrument contouring.

# 33. Supplemental Data:

- a. Graphic Control Surveys: None.
- b. Hydrographic Control Surveys: None.
- c. Vertical Angle Computation Brochure:

COMPUTATION & TABULATION OF VERTICAL CONTROL IN THE AREA OF RADIAL PLOT E, PROJECT Ph-8B(46), including T-9038, T-9044, T-9045, T-9055, T-9228, T-9231, T-9237, and T-9242."

### 34. Contours and Drainage:

The photographs used on the instrument for contouring were of satisfactory quality for this purpose. However, there are areas of contours that may be questionable as regards meeting mapping accuracy standards for 50ft contouring. In the back areas where control was scarce, bridging of vertical control was done, but whether desired results were obtained is not known for sure; combined with scarce control, below-standard field identification of control, poorly calibrated photos, and a radial plot of doubtful quality, it is little wonder that a question exists as to the results of bridging.

#### 35. Shoreline and Alongshore Details:

Field inspection of the shoreline was not complete in upper Kulukak Bay falling within the limits of these two quads. The inspection notes that were made was done on photos taken at high tide when many shoreline details were hidden from view. Instrumetaphotos were at a lower tide and these missing details were delineated and have been shown on the map manuscripts. Therefore the major portion of the shoreline and alongshore features are office rather than field identified.

36. Offshore Details: Not applicable.

#### 37. Landmarks and Aids:

No aids exist, but the field party recommended three mountain peaks as landmarks, namely Peak 5, 17, and 52. See the 1948 Field Inspection Report by A. Newton Stewart.

#### 38. Control for Future Surveys:

Several points were established and photo-identified by the field party, both hydro signals and monumented topo stations. All have been positioned by the radial plot and may be found on the manuscripts in proper name and symbol. These points are listed on two separate unnumbered pages of this report, one page for each quad showing name, description, and photo on which is identified.

#### 39. Junctions:

All junctions that exist are in agreement because all adjoining quads that have been compiled were made with these two quads as a joint project. No quad was produced to the north of either quad of this report.

# 40. Horizontal and Vertical Accuracy:

These maps are considered to meet map accuracy standards in both respects, even considering the doubt expressed in the plot report and in side-headings 32 and 34 above. Lessen

- 46. Comparison with Existing Maps: None exist.
- 47. Comparison with Nautical Charts: None exist.
- 48. Geographic Name List: See separate numbered page, following.
- 49. Notes for the Hydrographer: Two unnumbered pages follow.
- 50. Compilation Office Review: See T-2 form following.

Submitted by:

Approved and Forwarded by

Stereoscopic Mapping Section Photogrammetric Engineer

Orvis N.Dalbey Cartographer-Photogrammetric

GEOGRAPHIC NAMES	e	/	, ,	/ .a. / .	/ & /	, . <sub>/</sub>		NA SOLUTION AND AND AND AND AND AND AND AND AND AN	Page	/12
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#### NOTES FOR THE HYDROGRAPHER:

### Map Manuscript T-9044

#### Photo Hydrographic Stations

Signal No.	Photo No.	Description
3	18079	To be pricked directly. It is the high point of the easterly end of a rock cleft from the inshore rock. Use apparent northeasterly corner of the cleft-off portion. It is vertical on N and E sides, slopes off to the S and from about 12' W slopes off to the W, on which side it was climbed.
4	18079	To be pricked directly. It is the high point of an offshore rock, 9' above MHHW by hand level. Not visited (on foot and no bottom mud between).
5	18079	To be pricked directly. It is the high point of an offshore rock 6' above MHHW.
6	18079	To be pricked directly. It is a 5' boulder sitting on the crest of a ridge that is bare rock the lower 10', and grass and tundra covered higher. The boulder is 33' from the toe of the ridge and 12' from the vertical N side. It is 18' above MHHW. Two leaders at right angles indicate its position on photos.
91	18079	The center of the offshore face of a mass of rock, 300' offshore and rising to a height of about 30'.
92	18079	A large lone rock, ledge rock, at about \$\frac{1}{6}\$ tide line near the center of a 1200' beach. The rock is about 10' high, projects approx. 4' at HW.
93	18079	The face of a finger of rock running at $45^{\circ}$ angle southerly from the shoreline. A hole large enough for human passage, through the ledge, is about $\frac{1}{2}$ way out to the end of the finger and is at beach level.

Recoverable Topographic Stations.

GOAT 1947

ODOR 1947

#### NOTES FOR THE HYDROGRAPHER:

### Map.Manuscript T-9045

### Photo Hydrographic Stations

Signal No.	Photo No.	Description
2	<b>180</b> 79	Center of a 6' diameter dry grass patch having in its center a hole 12" in diameter and 15" deep. Could be used as topo. sta. On top of distinctive yellow bluff 26' above HN at this point. Station is 21 m from HWL and 5 yds. from top of bluff. See Sketch on field photo.
115	18077	Lone rock at northerly corner of toe of projecting grass point. Rock is 18" high.
116	180 <b>77</b>	Build signal in gravel opening through grass, on grass line midway between solid grass area on S and grass "island" on N.
117	18077	Lone rock lying parallel to beach 4'x 2'x $2\frac{1}{2}$ ' high, 8.5 m from inner edge of "bight" in grassline that is 2m deep.

Recoverable Topographic Stations

JACK 1947

JILL 1947

## PHOTOGRAMMETRIC OFFICE REVIEW

T-9044-9045

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 7. 10. Photogrammetric plot report 11. Detail points 7. ALONGSHORE AREAS (Nautical Chart Data)  12. Shoreline 13. Low-water line 14. Rocks, shoals, etc. 15. Bridges 16. Aids to navigation 7. Landmarks 18. Other alongshore physical features 19. Other alongshore cultural features 20. Water features 21. Natural ground cover 22. Planetable contours 23. Stereoscopic natrument contours 24. Contours in general 25. Spot elevations 26. Other physical ceatures 7. Roads 7. 28. Buildings 7. 29. Railroads 7. 30. Other cultural features 31. Boundary lines 32. Public land lines 35. Legibility of the majuractipt 36. Discrepancy overlay 7. 37. Description Report 38. Field inspection photographs 39. Forms 10. Stereoscopic Mapping Section Photogrammetric Engineer 11. Remarks (see attached sheet) Stereoscopic Mapping Section Fluorer Engineer FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT 12. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The	. FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT	-
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#### Review Reports T-9044 and T-9045 Topographic Maps March 12, 1953

- 62. Comparison with Registered Topographic Surveys .- None
- 63. Comparison with Maps of other Agencies .- None
- 64. Comparison with Nautical Charts .- None

66. Adequacy of Results and Future Surveys. Further field edit is not considered necessary prior to hydrographic surveys in the area. These maps are considered adequate as a base for hydrographic surveys and the construction of nautical charts.

Reviewed by:

B. J. Colner

APPROVED

Chief, Review Section
Div. of Photogrammetry

hief, Div. of Photogrammetry

Chief, Nautical Chart Branch

Division of Charts

Chief. Div. of Coastal Surveys

Houzortot and Vertical accuracy: No fill chart of accuracy has been made. The mosts are adequate for nautical charting and are judged to be within standard accuracy for the real and contour interest in the area near the coart but probably fall nowewhat below there standards in the northern half. Begins

1/21/55.