9231

ORIGINAL

Diag Cht. 8802

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey: Topographic

Field No. ..... Office No. T-9231

LOCALITY

State: Alaska

General locality: Bristol Bay Area

Locality: TOGIAK

194 7

CHIEF OF PARTY

A.Newton Stewart, Chief of Field Party
Charles W. Clark, Chief of Portland Photo Office
Division of Photogrammetry, Washington, D.C.

LIBRARY & ARCHIVES

DATE DEC 17 1954

8-1870-1 (1)

9231

3C 24 Alaska

DATA RECORD

T-9231

Project No. (II): Ph-8B(46) Quadrangle Name (IV): TOGIAK

Field Office (II): Bristol Bay, Alaska Chief of Party: A. Newton Stewart

Photogrammetric Office (III): Portland, Ore. Washington, D.C. Officer-in-Charge: Radial Plot = Charles W. Clark Compilation = Louis J. Reed, Chief, Stereo-map Section.

Instructions dated (II) (III):

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

Copy filed in Division of Photogrammetry (IV)

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): 5-12-52 Date reported to Nautical Chart Branch (IV): MAY 19 1952

Applied to Chart No. Date: Date registered (IV): April 12, 1954

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): The difference between Unadjusted Datum and N.A. 1927 Datum is Lat. plus/~~minus~~ 11 sec. and Long. ~~plus~~/minus 8 sec.

Lat.: Long.: Adjusted ~~Adjusted~~ Unadjusted

Plane Coordinates (IV): State: Zone:

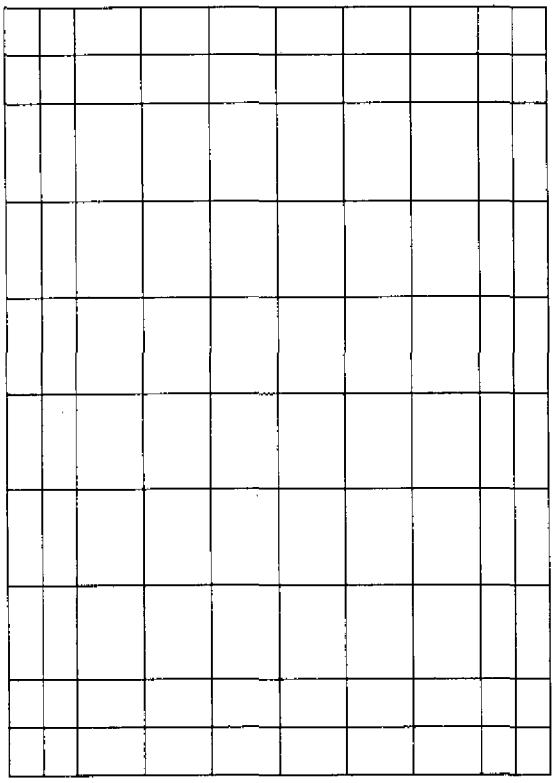
Y= X=

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.

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

M-2618-12(4)



Areas contoured by various personnel
(Show name within area)
(II) (III)

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

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

M-2618-12 (4)5

DATA RECORD

Field Inspection by (II): A. Newton Stewart Date: 1947-48

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 Reading Ruling Machine Date: 18 Oct 50

Projection and Grids checked by (IV): Harland R. Cravat Date: 20 Oct 50

Control plotted by (III): C.C. Wiebe Date: 28 Dec 50

Control checked by (III): H.B. Elrod Date: 28 Dec 50

Radial Plot ~~or Stereoscopic Control extension~~ by (III): James L. Harris & Roy A. Davidson Date: 4 Jun 51

Stereoscopic Instrument ~~compilation~~ delineation by (III): Planimetry & Contours Clarence E. MIsfeldt Date: 17 Apr 52 Date:

Manuscript ~~drawn~~ compiled by (III): Henri Lucas Date: 9 May 52

Photogrammetric Office Review by (III): Louis J. Reed Date: 12 May 52

Elevations on Manuscript checked by (~~X~~) (III): Louis J. Reed Date: 12 May 52

Louis J. Reed, Chief
M-2618-12(4)
Stereoscopic Mapping Section
Photogrammetric Engineer

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

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
28619	13 Aug 50			
20				
21				
22				
23		Clock		
28589		Stopped	20,000	Unknown
90				
91				
92				
93				
20500	24 Aug 47			
20501				

Tide (III)

~~* See Remarks~~

diurnal

Ratio of Ranges	Mean Range	~~Spring~~ Range
	15'	20'
	6'	10'

Reference Station: Nushagak Bay
Subordinate Station: *Black Rock, Walrus Islands
Subordinate Station:

Washington Office Review by (IV): B. J. COLNER Date: 12-18-52

Final Drafting by (IV): M J Day Date: 9-30-53

Drafting verified for reproduction by (IV): Leon O. Hallin Date: 10-5-53

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): 97 sq mi (T-9231 only)
Shoreline (More than 200 meters to opposite shore) (III): 8 miles
Shoreline (Less than 200 meters to opposite shore) (III): ?
Control Leveling - Miles (II): None
Number of Triangulation Stations searched for (II): Recovered: Identified: One
Number of BMs searched for (II): Recovered: Identified: None
Number of Recoverable Photo Stations established (III): Two
Number of Temporary Photo Hydro Stations established (III): Two

Remarks:

~~* from 1951 predictions~~

Tide Predictions, Alaska were prepared by the Division of Tides and Currents for the more accurate prediction of tides at various points in this part of project Ph-8(46). Details for T-9231 are on reverse side of this page.

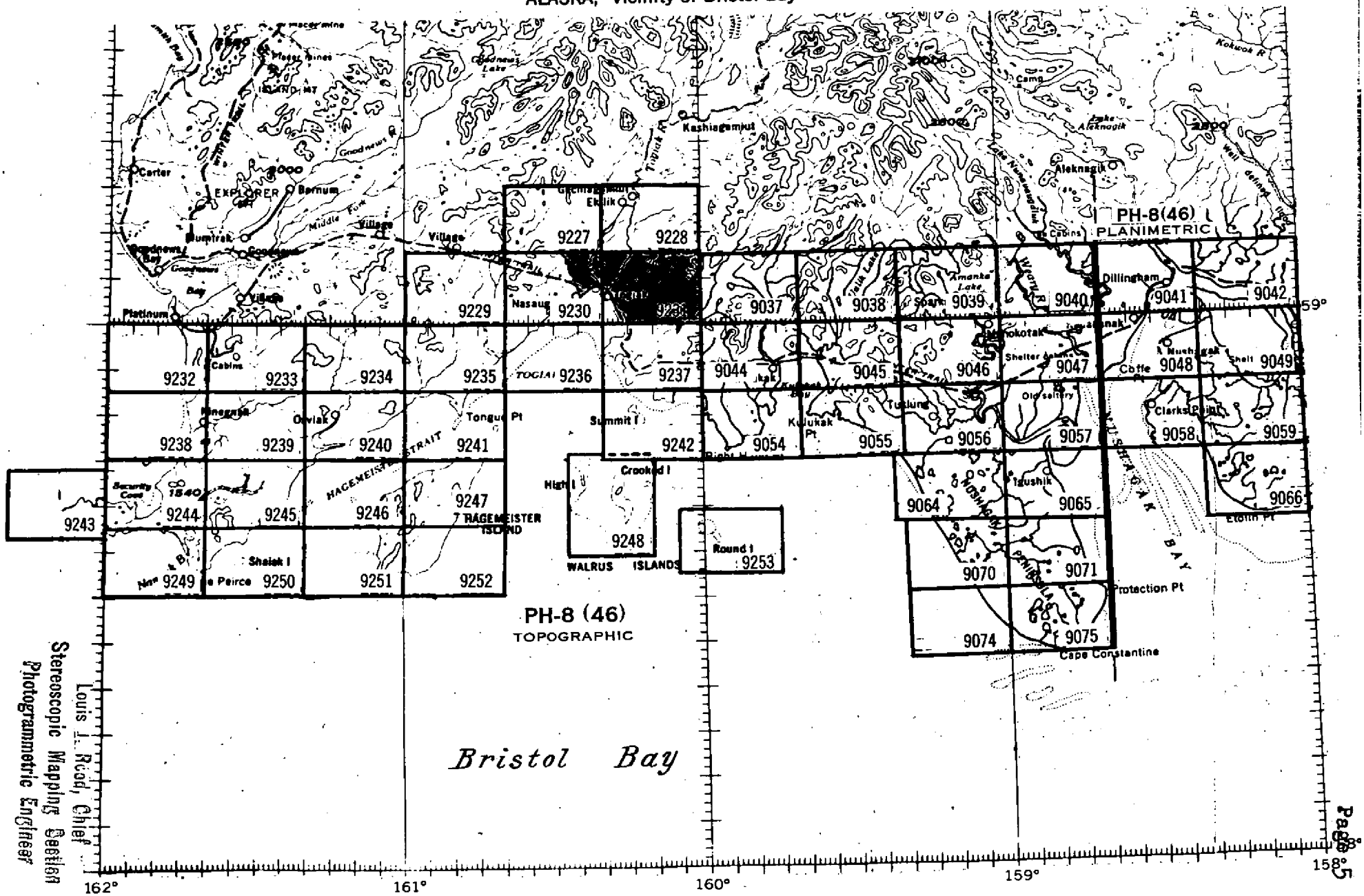
* See reverse side of this page

Form T-Page 4

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

TOPOGRAPHIC MAPPING PROJECT PH-8 (46)

ALASKA, Vicinity of Bristol Bay



Louis J. Read, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

Summary to Accompany T-9231

Ph-8(46) 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-9231 contains Togiak Village and Togiak River. Togiak Bay bounds the area of T-9231 to the southwest.

The 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 the map at the compilation scale will be registered with the Descriptive Report in the Bureau Archives. This map will not be published.

FIELD INSPECTION REPORT

2-20:

See two separate reports entitled:

PROJECT REPORT

AERIAL PHOTOGRAPH CONTROL AND INSPECTION

BRISTOL BAY, ALASKA

Project Ph-8(46) May to Jul 1948

A.Newton Stewart, Chief of Party

Library, No. 192

PROJECT REPORT

AERIAL PHOTOGRAPH CONTROL AND INSPECTION

BRISTOL BAY, ALASKA

Project Ph-8(46) May to Sep 1947

A.Newton Stewart, Chief of Party

Library, No 138

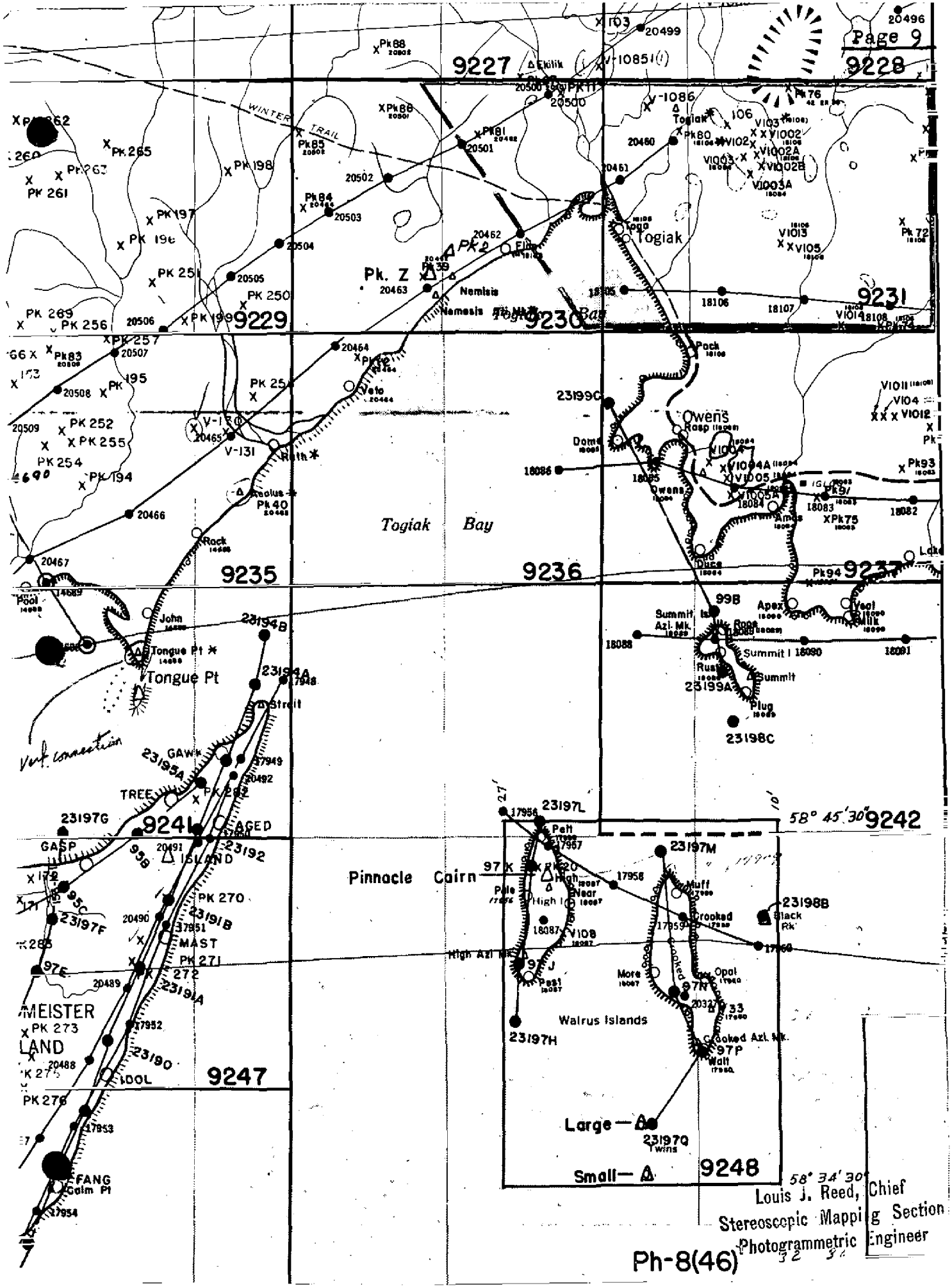
Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

RADIAL PLOT REPORT

21-30:

See descriptive report to accompany map manuscript T-9237 which radial plot report also covers the area of this quad.

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer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9242
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9248
WINTER TRAIL
Togiak
Togiak Bay
Owens
Tongue Pt
Pinnacle Cairn
Walrus Islands
Large — Δ
Small — Δ
58° 45' 30"
58° 34' 30"
Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer
Ph-8(46)

COMPILATION REPORT

31. Delineation:

Contours and all cultural features were delineated simultaneously on the Reading Plotter, model "A". Photo coverage was complete and shoreline inspection was adequate. This also includes the area of T-9230 generally east of 160° 28'. The land area of both quads is now completely mapped as a part of this project.

32. Control:

Horizontal control was not as dense as desired in this area, but a plot has been constructed which is believed will meet accuracy standards. Refer to the radial plot report where this matter is discussed in detail.

Sufficient vertical control was furnished for contouring purposes. It consisted of sea-level datum at the shoreline, plus elevations on inland peaks and water surfaces.

33. Supplemental Data:

a. Graphic Control Surveys: None.

b. Hydrographic Surveys: None.

c. Plotting Instrument Photos(metal-mounts):

20500, 20501, 28589 thru 28593, and 28619 thru 28623.

d. Field Inspection Photos:

18105, 18106, and 18108

e. Computation References:

Radial Plot bound with Descriptive Report T-9237 & additional T-9242

"COMPUTATION & TABULATION OF VERTICAL CONTROL IN THE AREA OF RADIAL PLOT "E" PROJECT Ph-8B946) including map manuscripts T-9037, T-9038, T-9044, T-9045, T-9054, T-9055, T-9228, T-9231, T-9237, and T-9242"

"TABULATION OF ELEVATIONS AND COMPUTATIONS OF ELEVATIONS BY MAP MANUSCRIPTS FOR VERTICAL CONTROL STATIONS IN THE AREA OF MAP MANUSCRIPTS T-9227, T-9229, T-9230, T-9234, T-9235, T-9236, T-9240, and T-9241."

34. Contours and Drainage:

The quality of the photographs used on the plotting instrument was satisfactory for contouring purposes, and no areas of questionable contours remain.

35. Shoreline and Along-Shore Details:

Instrument photos were exposed at a lower tide stage than were the field inspection photos, and for this reason more detail has been delineated than the field inspector could show. For example, a major change will be noted on the manuscript of the shoreline just inside the mouth of the Togiak River. Shallow areas are instrument delineated also.

36. Offshore Details: None.

37. Landmarks and Aids: None recommended.

38. Control for Future Surveys:

Two photo-hydro signals and two photo-topo stations have been positioned by the radial plot and are shown on the manuscript in proper name and symbol, after they had been field selected, marked, named, and identified.

39. Junctions:

Existing junctions are in agreement, having been compiled simultaneously across these match edges.

40. Horizontal and Vertical Accuracy:

Standard; hor.= under $\frac{1}{2}$mm, and Vert.= 50ft contour interval. In addition, the 25ft contour (and probably the 75ft) is considered to meet the standards for a 25ft interval, being so close to sea-level datum.

46. Comparison with Existing Maps: None exist.

47. Comparison with Nautical Charts: None exist.

48. Geographic Name List: See separate numbered page.

49. Notes for the Hydrographer: See 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-9231

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	
										1
TOGIAK BAY										2
TOGIAK RIVER										3
TOGIAK ~~VILLAGE~~										4
										5
										6
Alaska (for title)										7
Bristol Bay										8
										9
										10
			Names underlined in red are approved 12-19-52 L. Heck							11
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										27

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

49. Notes for the Hydrographer:

a. Photo-hydro signals:

Signal No.	Photo No.	Description
157	18,105a	East gable of the easterly of two houses, the two being the most NE houses on the spit.
158	18,105a	Big boulder 6ft high, 10meters from base of bluff, and at about MHWL.

b. Photo-topo stations:

Name	Photo No.	Description
TOGO, 1947	18,105a	See 524 card
PACK, 1947	18,105a	"

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

Form T-2

PHOTOGRAMMETRIC OFFICE REVIEW

T-9231 and 9230 (east of 160°-28')

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 n

9. Plotting of sextant fixes n 10. Photogrammetric plot report ✓ 11. Detail points n

✓ = checked
n = non-existent

ALONGSHORE AREAS
(Nautical Chart Data)

12. Shoreline ✓ 13. Low-water line n 14. Rocks, shoals, etc. ✓ 15. Bridges n 16. Aids to navigation n 17. Landmarks n 18. Other alongshore physical features ✓ 19. Other alongshore cultural features n

PHYSICAL FEATURES

20. Water features ✓ 21. Natural ground cover ✓ 22. Planetable contours n 23. Stereoscopic instrument contours ✓ 24. Contours in general ✓ 25. Spot elevations ✓ 26. Other physical features n

CULTURAL FEATURES

27. Roads n 28. Buildings ✓ 29. Railroads n 30. Other cultural features n

BOUNDARIES

31. Boundary lines n 32. Public land lines n

MISCELLANEOUS

33. Geographic names ✓ 34. Junctions ✓ 35. Legibility of the manuscript ✓ 36. Discrepancy overlay n 37. Descriptive Report ✓ 38. Field inspection photographs ✓ 39. Forms ✓

40. Reviewer — Supervisor, Review Section or Unit

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

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:

M-2623-12

REVIEW REPORT T-9231
Topographic Map
December 18, 1952

62. Comparison with Registered Topographic Surveys.- None

63. Comparison with Maps of other Agencies.-

USGS Alaska Map 18, Goodnews District, Alaska, 1:250,000, 1938 edition.

64. Comparison with Contemporary Hydrographic Surveys.- None

65. Comparison with Nautical Charts.- None.

See item 47
Chart No. 9103, Kuskokwim Bay, 1:200,000, published Sept. 1916 (2nd edition), last correction 10 October 1950. There are no significant differences between T-9231 and the chart.

66. Adequacy of Results and Future Surveys.-

Further field edit is not considered necessary prior to hydrographic surveys in the area.

This map complies with project instructions and is adequate as a base for hydrographic surveys and the construction of nautical charts.

Reviewed by:

B. J. Colner

APPROVED BY:

L C Landy 11/23/54
Chief, Review Section
Div. of Photogrammetry

Chief, Nautical Chart Branch
Division of Charts

L W Swanson 12/9/54
Chief, Div. of Photogrammetry
WSR

Earl O. Hanson
Chief, Div. of Coastal Surveys

HORIZONTAL DATUM ADJUSTMENT

Bristol Bay, Alaska

The subject maps were radial plotted on unadjusted (Field) datum which was subsequently adjusted to the North American 1927 datum by the Division of Geodesy. The datum correction has been computed for each sheet, and stamped into the Descriptive Report on page 1, and on the manuscripts and registered cloth-backed copies near the title block. However, as the title block of each clothback sheet contains the note, "1927 North American Datum", it was necessary to stamp the word, "(Unadjusted)" beside this datum note in the title block of each sheet.

See the special report, Horizontal Control Datum, Ph-8(46), Ph-8A(46), and Ph-8B(46), filed with the Completion Report for the project for details and lists of the maps, reports, and registration copies marked with this adjustment. The following is a list of the maps in the projects:

Ph-8(46), TOPOGRAPHIC

T-9038 thru T-9040
9044 " 9047
9054 " 9057
9064,-9065,-9070
9071,-9074,-9075
9227 thru 9253

Ph-8A(46), PLANIMETRIC

T-9041 thru T-9043
9048 " 9053
9058 " 9063
9066 " 9069
9072,-9073
9076,-9078

Ph-8B(46), SHORELINE

T-8873 (E&W) and T-8874