9227 9228

9228

9227

Diag. Chs. Nos. 9302 & 8802

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. Ph-8(46) Office No. T-9227 & T-9228

LOCALITY

State Alaska

General locality Bristol Bay

Locality Togiak

1947-50

CHIEF OF PARTY

A. Newton Stewart, Chief of Field Party

Charles W. Clark, Chief, Portland Photo Office, Div. of Photogrammetry, Washington, D.C.

LIBRARY & ARCHIVES

DATE May 2, 1955

B-1870-1 (1)

DATA RECORD

T -9227 & T-9228

Project No. (II): Ph-8B(46) Quadrangle Name (IV): EKILIK VILLAGE WEST

Field Office (II):

Chief of Party: A. Newton Stewart

Photogrammetric Office (III): Portland Photo.O. Washington D.C.

Officer-in-Charge: Charles W. Clark
Louis J. Reed, Chief,
Stereoscopic Mapping Section

Instructions dated (II) (III):

4 Feb 49 (Radial Plot)

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): 5-9-52

Date reported to Nautical Chart Branch (IV): MAY 16 1952

Applied to Chart No.

Date:

Date registered (IV): May 26, 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

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

✓ Lch

Reference Station (III):

Lat.:

Long.:

[redacted]

XXXXXXX
Unadjusted

Plane Coordinates (IV):

State:

Zone:

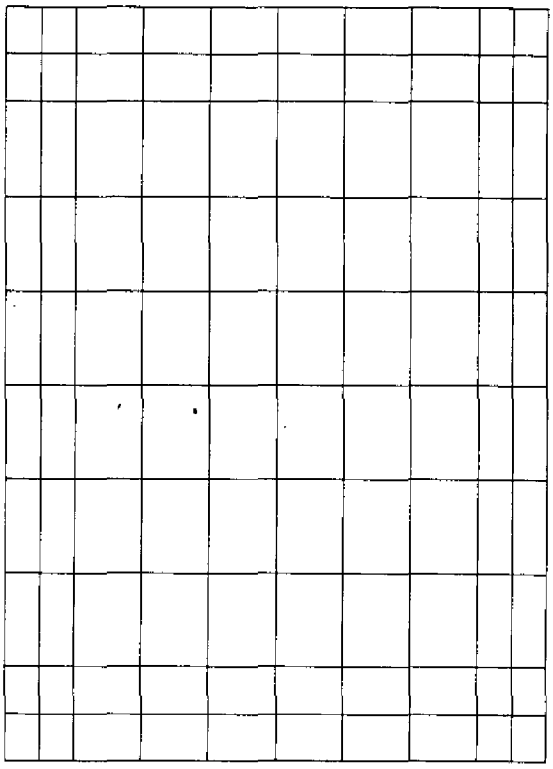
Y=

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.

M-2618-12(4)



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

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

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

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
20500	24 Aug 47	Clock Stopped	20,000	not known
20501				
28619	13 Aug 50	" "	20,000	"
28620				
28621				
28639				
28640				
28641				
28642				
28680				
28681				

Tide (III)

* SEE REMARKS

Reference Station: Nushagak Bay

Subordinate Station: *Black Rock, Walrus Islands

Subordinate Station:

diurnal

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

Washington Office Review by (IV): B. J. Colner Date: 2/17/53

Final Drafting by (IV): M J Day 9227 Date: 9/14/53
M J Day 9228 10/15/53

Drafting verified for reproduction by (IV): W.O. Hallum Date: 10-15-53
11-23-53

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): T-9227 = 28 sq mi ; T-9228 = 64 sq mi

Shoreline (More than 200 meters to opposite shore) (III): None

Shoreline (Less than 200 meters to opposite shore) (III): None

Control Leveling - Miles (II): None

Number of Triangulation Stations searched for (II): Recovered: Identified: None

Number of BMs searched for (II): Recovered: Identified: None

Number of Recoverable Photo Stations established (III): None

Number of Temporary Photo Hydro Stations established (III): None

Remarks:

* TOGIAK BAY ~~* from 1951 Predictions~~

Tide Predictions, Alaska

Times of high and low WATERS subtract 3 hours

Heights of low waters multiply by ratio 0.90

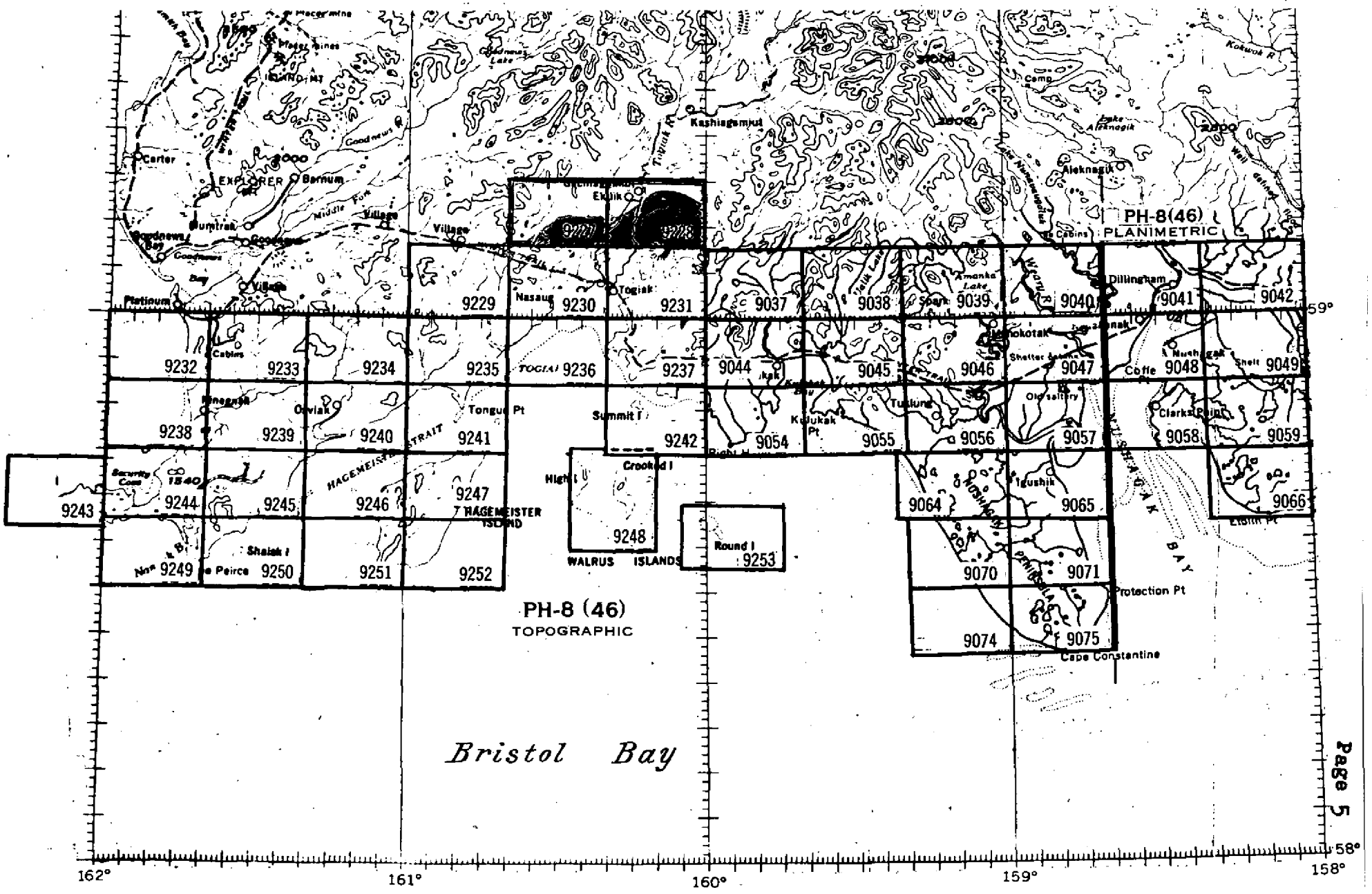
Heights of high waters " " " 0.65

Subtract 7.2 ft. to refer heights to MSL

M-2618-12(4)

TOPOGRAPHIC MAPPING PROJECT PH-8 (46)

ALASKA, Vicinity of Bristol Bay



Summary to Accompany T-9227 and T-9228

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-9227 and T-9228 are the northernmost sheets of the project. T-9227 contains the upper portion of Quimgy River and a very short strip of Togiak River. T-9228 contains the upper part of Togiak River.

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 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
Map Manuscript No. T-9227
Project Ph-8(46)

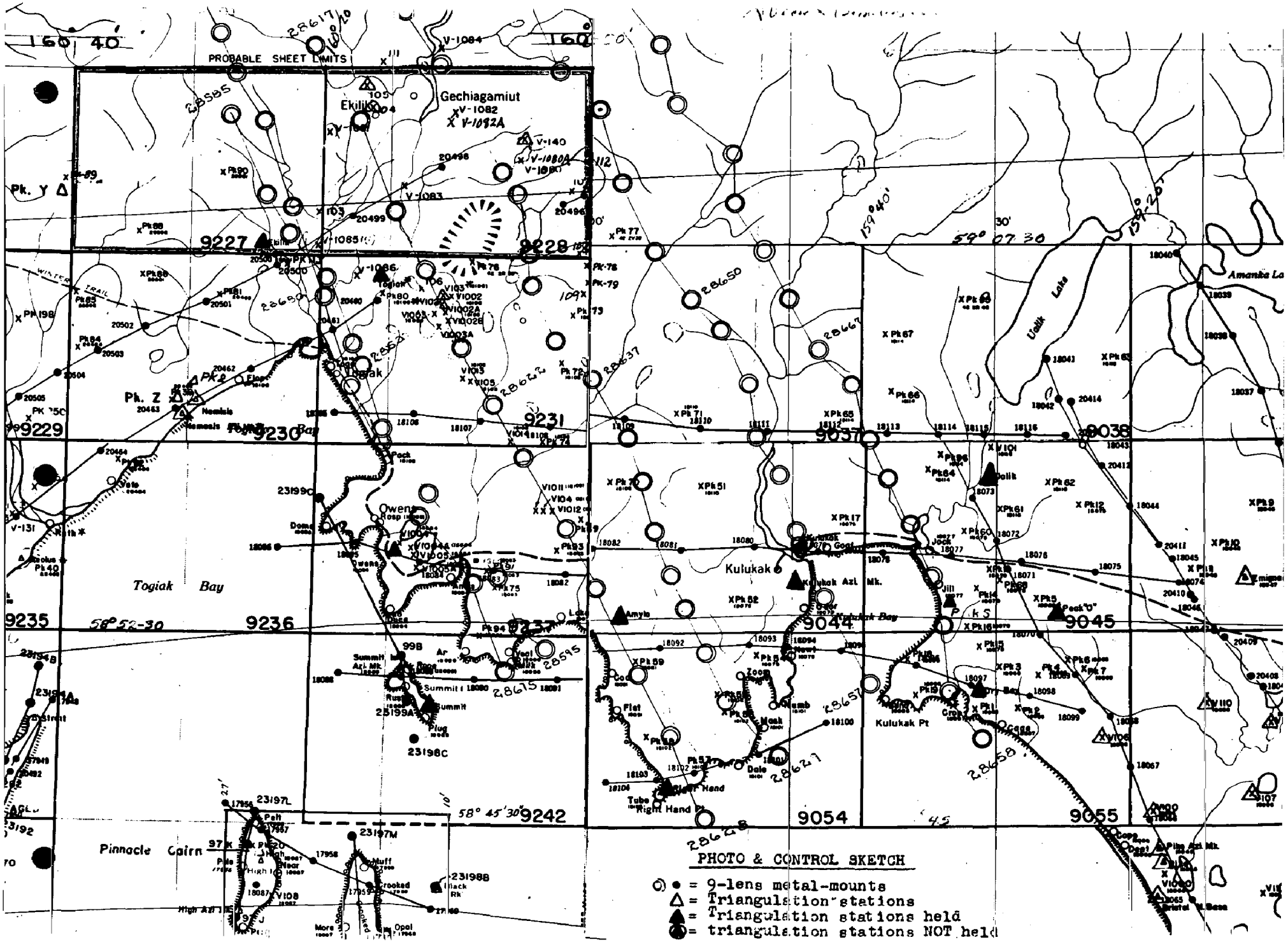
Refer to PROJECT REPORT, AERIAL PHOTOGRAPH CONTROL and INSPECTION, BRISTOL BAY, ALASKA, Project Ph-8(46) May to July 1948. A. Newton Stewart, Chief of Party.

Refer to PROJECT REPORT, AERIAL PHOTOGRAPH CONTROL and INSPECTION, BRISTOL BAY, ALASKA, Project Ph-8(46) May to Sept. 1947. A. Newton Stewart, Chief of Party.

RADIAL PLOT REPORT

21-30:

See descriptive report to accompany T-9237.


PROBABLE SHEET LIMITS
Gechiagamiut
Ekilik
Togiak Bay
Kulukak
Kulukak Pt
Pinnacle Cairn
9227
9228
9229
9230
9231
9235
9236
9237
9242
9037
9038
9044
9045
9054
9055
58° 52' 30"
58° 45' 30"
59° 07' 30"
PHOTO & CONTROL SKETCH
= 9-lens metal-mounts
= Triangulation stations
= Triangulation stations held
= triangulation stations NOT held

COMPILATION REPORT

31. Delineation:

All contours and cultural features have been delineated simultaneously on the Reading Plotter, model "A". Photo coverage was not complete; see page 9. ~~There was no shoreline inspection; there is no shoreline~~. The field inspection on these two quads amounted to identifying peaks for vertical elevations only. The area has not been completely compiled on either quad; approximate areas of delineation are outlined on page 5. One small area on T-9227 near the southern limits, was cloud-covered and has been symboled in a dashed line to show that the accuracy is doubtful.

32. Control:

A single radial plot covered the mapped area of these two quads and that of several others. The report on this work is included in the descriptive report with T-9237, and therein the control situation was discussed in detail. Briefly, neither horizontal or vertical control was adequate as to density. The bridging ability inherent in the radial plot method was the only reason the area has been compiled at all.

33. Supplemental Data:

a. Graphic Control Surveys: None
b. Hydrographic Control Surveys: None.
c. Plotting Instrument Photos (metal-mounts):

20500, 01, 28619, 20, 21, 39, 40, 41, 42, 80, and 81.

d. Field identification Photos:

20496, 20498, and 20499.

e. Computation Brochures: two, entitled as follows:

"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"

"COMPUTATION AND TABULATION OF VERTICAL CONTROL IN THE AREA OF RADIAL PLOT "E", Project Ph-8B(46), including map manuscripts T-9037, T-9038, T-9044, T-9045, T-9054, T-9055, T-9228, T-9237, and T-9242"

34. Contours and Drainage:

Photographic quality of those photographs used as instrument photos was satisfactory for that purpose. Considerable extension of vertical control was found to be necessary but no particular difficulty was had. Doubtful contours have been compiled in the clouded area on T-9227.

35. Shoreline and Alongshore Details: Not Applicable.

36. Offshore Details: Not Applicable.

37. Landmarks and Aids: Peak Y, 1948 on T-9227 was recommended by the field part as a landmark. No Aids exist.

38. Control for Future Surveys: None.

39. Junctions: All are in agreement; compiled at same time.

40. Horizontal and Vertical Accuracy:

Disregard → See Review Report

Position and contour accuracy are doubtful as indicated in para 32 above. If the contours are not accurate to 25ft and the detail is not within 1/2mm of true position, they are both very close to these requirements.

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: None.

50. Compilation Office Review:

See T-2 form, numbered page, 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

Review Report T-9227 and T-9228
Topographic Maps
February 17, 1953

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

66. Adequacy of Results and Future Surveys.-

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

It is believed These maps comply with National Standards of Accuracy.

Reviewed by:

B. J. Colner
B. J. Colner

APPROVED

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

H. C. Edmonston
Chief, Nautical Chart Branch
Division of Charts GFH

Max B. Ricketts
Chief, Div. of Photogrammetry

Carl O. Hetzer
Chief, Div. of Coastal Surveys

GEOGRAPHIC NAMES

Survey No.

T-9227 & T-9228

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
T-9227										2
QUIGMY RIVER										3
TOGIAK RIVER										4
										5
										6
										7
T-9228										8
TOGIAK RIVER										9
										10
										11
Alaska Bristol Bay	(for titles)					Names approved 2-18-53. L. Hack				12 13
										14
										15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

Form T-2

PHOTOGRAMMETRIC OFFICE REVIEW

T-9227 & 9228

1. Projection and grids ✓ 2. Title ✓ 3. Manuscript numbers ✓ 4. Manuscript size ✓

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy N 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) N 7. Photo hydro stations N 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 N 13. Low-water line N 14. Rocks, shoals, etc. N 15. Bridges N 16. Aids to navigation N 17. Landmarks ✓ 18. Other alongshore physical features N 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 N 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

Louis J. Reed
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

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