9057

Diag. Cht. No. 8502-3

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-9057

LOCALITY

State ALASKA-BRISTOL BAY AREA

General locality NUSHAGAK PENINSULA

Locality IGUSHIK RIDGE - NORTH

194 7

CHIEF OF PARTY

A.N.Stewart,Chief of Field Party.
C.W.Clark,Portland Photogrammetric Office

LIBRARY & ARCHIVES

DATE May-21-1953

B-1870-1 (1)

9057

DATA RECORD

T -9057

Project No. (II): Ph-8(46)R Topo Quadrangle Name (IV): ~~NUSHAGAK~~-IGUSHIK RIDGE - NORTH

Field Office (II): Nushagak Peninsula, Alaska Chief of Party: A. Newton Stewart

Photogrammetric Office (III): Portland, Oregon Officer-in-Charge: Charles W. Clark
Wash., D. C. Louis J. Reed, Chief, Stereoscopic

Instructions dated (II) (III): 19 March 1948 Mapping Section Copy filed in Division of
and 4 Feb. 1949 (Office) Photogrammetry (IV)
21 April 1948 (Field) *Office Files*

Method of Compilation (III): Planimetry: Graphic
Topography: 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): 7-25-50 Date reported to Nautical Chart Branch (IV): 7-26-50

Applied to Chart No. Date: Date registered (IV): 4-10-53

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): N.A. 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 and N.A. 1927 Datum is Lat. plus/~~minus~~ 5 m. and Long. ~~plus~~/minus 2 m.

Reference Station (III):

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

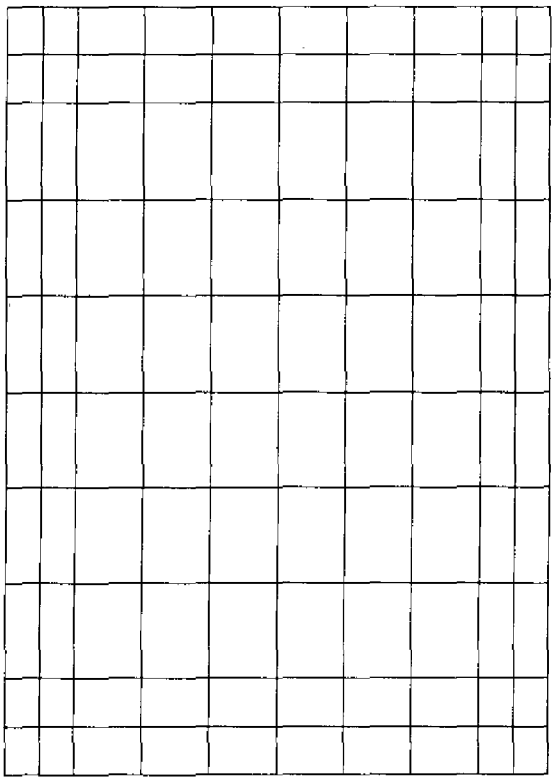
Plane Coordinates (IV): State: Zone:

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.

M-2618-12(4)



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

100% by:
Clarence E. Misfeldt
and
Louis Levin

DATA RECORD

Field Inspection by (II): A. Newton Stewart — Date: Season 1947 and 1948

Planetable contouring by (II): None — Date:

Completion Surveys by (II): None — Date:

Mean High Water Location (III) (State date and method of location): The high-water line was located on the 1947 photographs in 1947 and 1948. This data was transferred to the office photographs and then detailed.

Projection and Grids ruled by (IV): Ruling Machine — Date: 25 May 48

Projection and Grids checked by (IV): Wheatley C. Ward — Date: 25 May 48

Control plotted by (III): James L. Harris (Portland) — Date: 31 May 1948

Control checked by (III): Ree H. Barron (Portland) — Date: 1 June 1948

Radial Plot (Unmounted Photographs) J.L. Harris & J.E. Deal — Date: 14 June 1948

Radial Plot or ~~Stereoscopic~~ Control extension by (III): (Mounted Photographs) " — Date: " 15 July 1949
(Portland)

delineation — Planimetry — Date:

Stereoscopic Instrument ~~compilation~~ (III):

Contours by: C.E. Misfeldt and Louis Levin — Date: 14 June 1950

compiled

Manuscript ~~delineated~~ by (III): — Date:

(From 2nd Radial Plot):-Marie B. Elrod & Ree H.Barron — 22 Dec. 1948
(" 3rd " "):-Orvis N. Dalbey — 18 May 1950
(Topography):-Clarence E. Misfeldt — 21 June 1950

Photogrammetric Office Review by (III): — Date:

(From 2nd Radial Plot):-Ree H. Barron — 22 Dec. 1948
(Final Review by):-Orvis N. Dalbey — 30 June 1950

Elevations on Manuscript checked by ~~(III)~~: Louis J. Reed — Date: 12 July 1950

M-2618-12(4)

Camera (kind or source) (III): U.S.C. & G.S. 9-lens, focal length 8.25 inches.

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
18031	10-12-46	11:28	1:20,000	7.9 ft. above MLLW.
20418 to 20420 incl.	8-23-47	11:17	1:20,000	4.0 ft. " "
20423 to 20427 "	8-23-47	11:28	1:20,000	3.5 ft. " "
20436 to 20437 "	8-23-47	11:47	1:20,000	2.3 ft. " "
20457	8-24-47	Unknown	1:20,000	Unknown
23344 to 23347 "	9- 2-48	9:40	1:20,000	11.2 ft. " "

Tide (III) Diurnal

Ratio of Ranges	Mean Range	~~Spring~~ Range
	15.2	19.5

Reference Station: Nushagak Bay (Clark Point)
Subordinate Station: Same
Subordinate Station:

Washington Office Review by (IV): Roscoe J. French Date: Sept. 22, 52

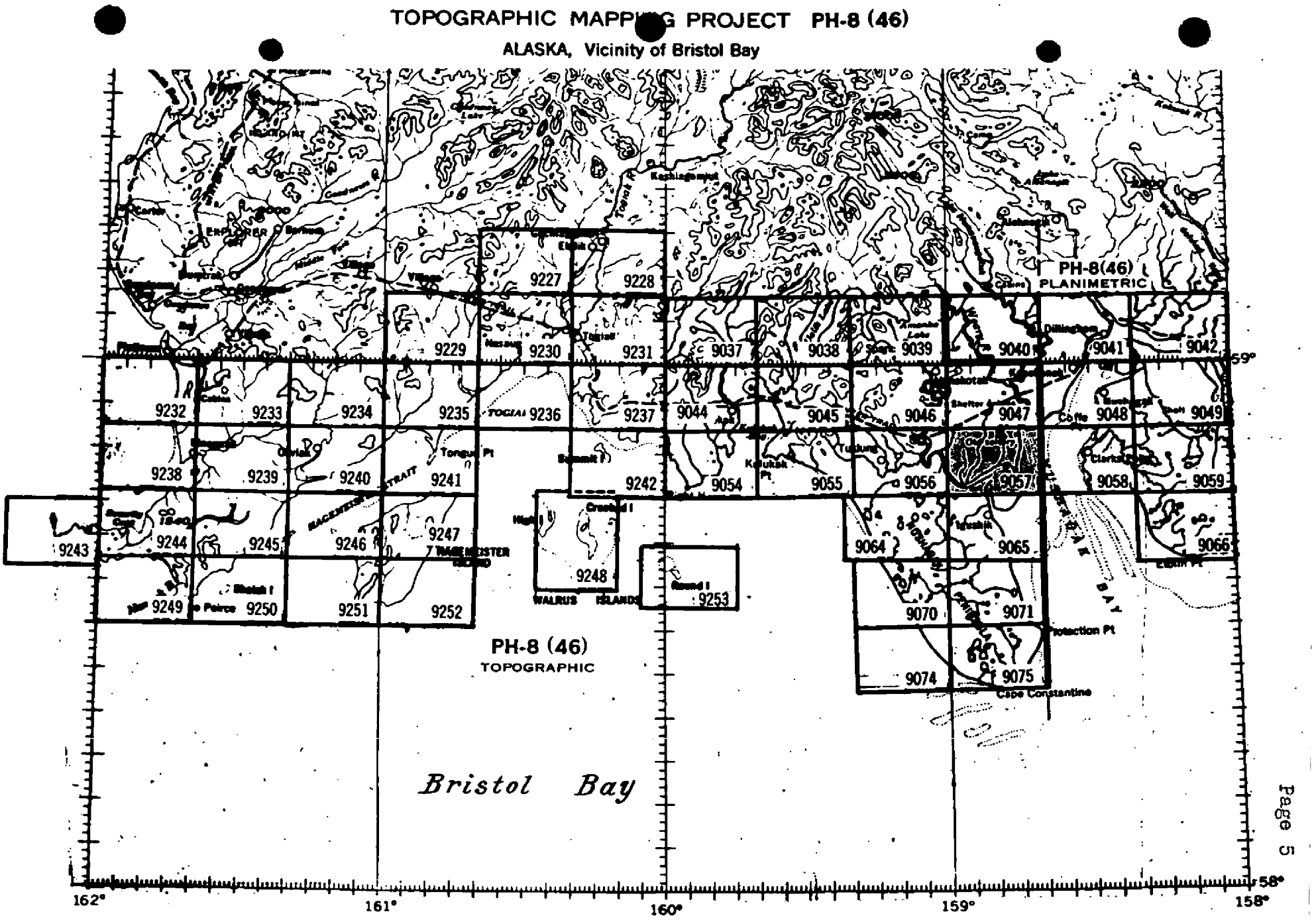
Final Drafting by (IV): M. J. Day Date: 11/12/52

Drafting verified for reproduction by (IV): W.O. Hellwin Date: 11-25-52

Proof Edit by (IV): W.O. Hellwin Date: 12-24-52

Land Area (Sq. Statute Miles) (III): 68.0
Shoreline (More than 200 meters to opposite shore) (III): 34.0 Statute Miles
Shoreline (Less than 200 meters to opposite shore) (III): None
Control Leveling - Miles (II): None
Number of Triangulation Stations searched for (II): Recovered: Identified: four
Number of BMs searched for (II): None Recovered: Identified:
Number of Recoverable Photo Stations established (III): 2
Number of Temporary Photo Hydro Stations established (III): None

Remarks:


TOPOGRAPHIC MAPPING PROJECT PH-8 (46)
ALASKA, Vicinity of Bristol Bay
PH-8(46)
PLANIMETRIC
PH-8 (46)
TOPOGRAPHIC
Bristol Bay
9227
9228
9229
9230
9231
9037
9038
9039
9040
9041
9042
9232
9233
9234
9235
9236
9237
9044
9045
9046
9047
9048
9049
9238
9239
9240
9241
9242
9054
9055
9056
9057
9058
9059
9243
9244
9245
9246
9247
9248
9253
9064
9065
9066
9249
9250
9251
9252
9070
9071
9074
9075
59°
58°
162°
161°
160°
159°
158°

Summary to Accompany T-9057

Ph-8(46), covering the north shore of Bristol Bay in Alaska is divided into three parts. Part A includes 23 planimetric maps in the general area of Egegik Bay and Nushagak Bay and including Kvichak Bay. The hydrography has been completed in this area.

Part B is composed of shoreline surveys on the Egegik River between Egegik Bay and Lake Becharof.

Ph-8(46) Topographic includes 45 topographic maps covering the area from Nushagak Peninsula westward to Cape Newenham, north to Goodnews Bay, and includes offshore islands such as Hagemeister and the Walrus Islands. Advance copies of the map manuscripts, prior to contouring were supplied as base sheets for the hydrographic surveys currently in progress west of Nushagak Peninsula.

Topographic map T-9057 covers the north end of Igushik Ridge and the mouths of the Snake and Igushik Rivers where they empty into Nushagak Bay. The shoreline was compiled by graphic methods with interior detail and contours added by the Reading Plotter from nine-lens photographs taken in 1947 and 1948. The field inspection was confined to the identification of two topographic stations (one, POKE, 1947, since made triangulation) and the recovery of one triangulation station during the 1947 field season.

The map manuscripts consist of one sheet each, 7.5 minutes in latitude and 20 minutes in longitude, at a scale of 1:20,000. A cloth backed lithographic print of each map at the compilation scale will be registered with the Descriptive Report in the Bureau Archives. These maps will not be published.

FIELD INSPECTION REPORT

2-20:

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

Refer to the above report for any information that would be covered in Side Headings 2 to 20 if the field inspection report had been written in accordance with the instructions in the Topographic Manual.

PHOTOGRAMMETRIC PLOT REPORT
Map Manuscript No. T-9057
Project Ph-8(46)B

There were three separate assemblies of this radial plot.

The original plot was laid from 9-lens unmounted photographs taken in 1946 and 1947 and was included in a combined radial plot comprising Map Manuscripts No'd. T-9040, T-9041, T-9047, T-9048, T-9057 and T-9058.

This combined radial plot was laid again in December 1948 using 9-lens unmounted photographs taken in September 1948. Refer to Side Heading 31: "Delineation", Paragraph 1, of the Compilation Report.

For facts pertaining to these two radial plots refer to Side Heading 27: "Radial Plot" of the Descriptive Report for Map Manuscript T-9058(1947).

Finally this map manuscript was included in a combined radial plot, assembled from metal-mounted photographs taken in September 1948, comprising Map Manuscripts No'd. T-9039, T-9040, T-9046, T-9047, T-9056 and T-9057.

For facts pertaining to this radial plot refer to the Photogrammetric Plot Report for these six map manuscripts which is included in the Descriptive Report for T-9039(1947) forwarded 23 November 1949.

Approved:

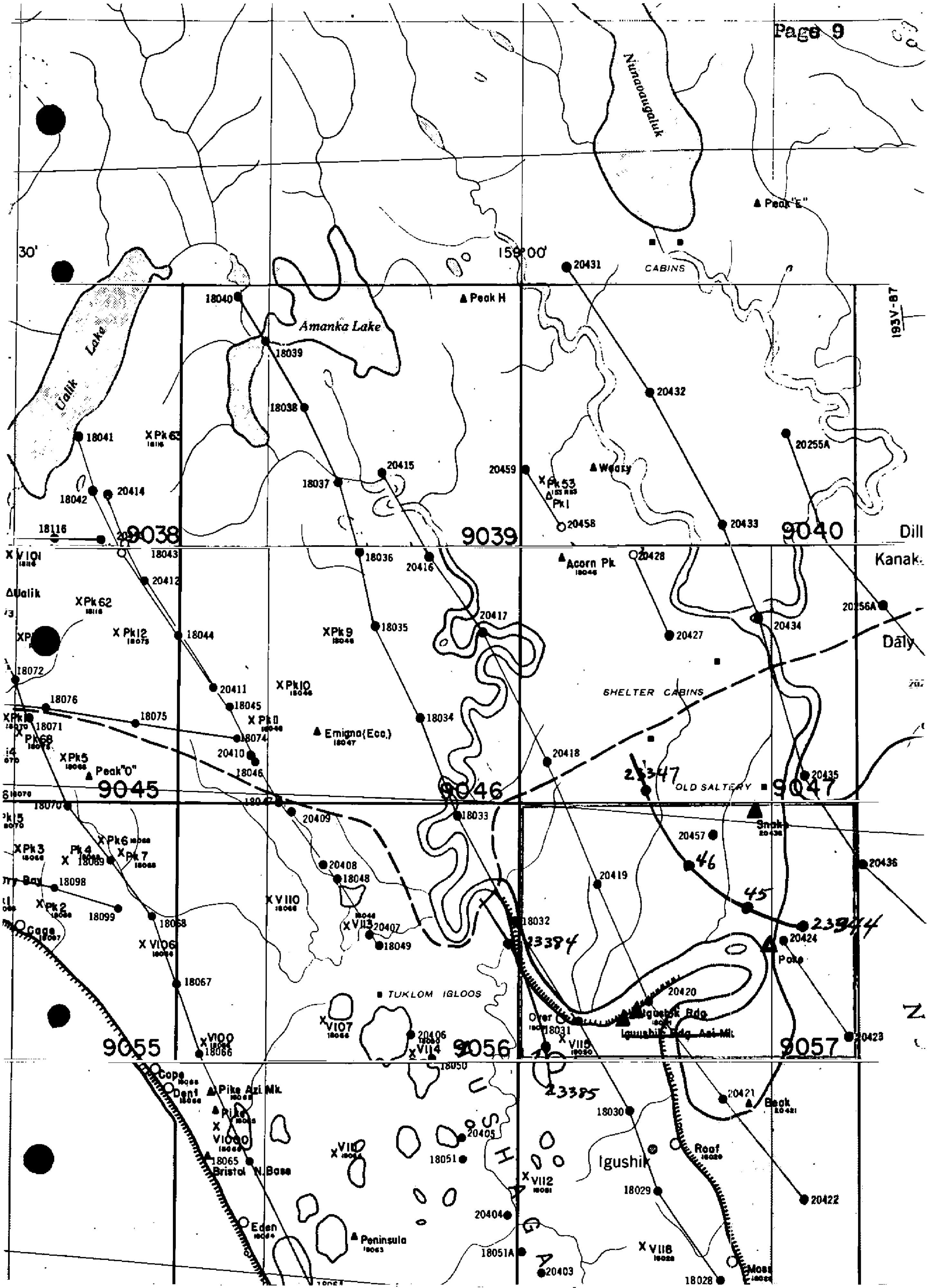
Charles W. Clark

Charles W. Clark
Chief of Party

Respectfully submitted:

J. Edward Deal Jr.

J. Edward Deal, Jr.
Cartographer


Nunavaugaluk
Peak "E"
CABINS
30'
159°00'
20431
Amanka Lake
Ualik Lake
Peak H
18040
18039
18038
18037
18036
18035
18034
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18032
18031
18030
18029
18028
20432
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20255A
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Acorn Pk
18116
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18074
20410
18046
20409
20408
18048
20407
18049
20406
20405
20404
20403
18051
18051A
18050
9038
9039
9040
9045
9046
9047
9055
9056
9057
Dill
Kanak
Daly
193V-87
X V101
ΔUalik
X Pk 62
X Pk 12
X Pk 9
X Pk 10
X Pk 11
X Pk 63
X Pk 53
Pk 1
18072
18076
18075
18071
X Pk 68
X Pk 5
Peak "0"
18070
X Pk 3
X Pk 4
X Pk 6
X Pk 7
18069
18098
18099
X Pk 2
18068
Cage
X V106
18067
X V100
18066
Emigna (Ecc.)
SHELTER CABINS
OLD SALTERY
23347
46
45
23384
23385
23344
Snak
Pole
X V110
X V113
TUKLOM IGLOOS
X V107
X V114
X V115
Over
Igushik Bdg
Igushik Bdg. Azi Mk.
Cope
Dent
Pike Azi Mk.
Pike
X V1000
18065
Bristol
N. Base
X V111
Eden
Peninsula
X V112
Igushik
Roof
Beck
X V118
Moss
USHAGA

COMPILATION REPORT
Map Manuscript No. T-9057
Project Ph-8(46)B

31: DELINEATION:

The planimetry shown on this map manuscript has been compiled entirely from the results of the second radial plot run from 9-lens unmounted photographs taken in 1947 and 1948.

The results of this radial plot are shown on the map manuscript with circles in blue ink.

The results of the latest radial plot from 9-lens metal-mounted photographs have been shown with circles in red plastic ink so that the movement between the two plots might be easily observed.

Graphic methods were used for the compilation.

The photograph coverage was satisfactory. For data on field inspection refer to the remarks contained in the field inspection report for Map Manuscript T-9058(1947).

32: CONTROL:

Facts pertaining to the four horizontal control stations falling within the limits of this map manuscript are discussed in Side Heading 23: "Adequacy of Control" of the Photogrammetric Plot Report for T-9039, T-9040, T-9046, T-9047, T-9056 and T-9057 which is included in the Descriptive Report for T-9039(1947).

For vertical control data refer to Side Heading 27: "Vertical Control" of the above report and a cahier entitled "Tabulation of Elevations and Computations of Elevations by Map Manuscripts of Vertical Control Stations in Radial Plot No. 2, Project Ph-8(46)B" which have been submitted.

33: SUPPLEMENTAL DATA:

There were no supplemental data furnished for the area of this map manuscript.

34: CONTOURS AND DRAINAGE:

The drainage shown on this map manuscript has been interpreted from office examination of the photographs with the aid of the stereoscope.

Contours are not applicable.
by Reading Plotter "A"

35: SHORELINE AND ALONGSHORE DETAILS:

The location of the mean high-water line has been shown as delineated by the field inspection party of Lt. Comdr. A. Newton Stewart in 1947 and 1948.

The approximate limits of mud flat areas that are believed to bare at low-water have been delineated by office inspection of the photographs.

There are no man-made alongshore details.

36: OFFSHORE DETAILS:

There are no details offshore from the mean high-water line.

37: LANDMARKS AND AIDS:

A report of these features has been submitted by the Ship "PATHFINDER". (None)

38: CONTROL FOR FUTURE SURVEYS:

Forms 524 have been submitted for stations POKE, 1947 and OVER, 1947 on 25 November 1949. ✓ Triangulation Station

There were no photo-hydro stations selected by the field party in this area.

39: JUNCTIONS:

A satisfactory junction of pass points have been made between this map manuscript and adjoining map manuscripts. When the planimetry is revised to agree with the latest radial plot it will be necessary to make new junctions with adjoining sheets.

40: HORIZONTAL AND VERTICAL ACCURACY:

The planimetry on this map manuscript should be revised to agree with the results of the final radial plot from metal-mounted nine-lens photographs. See 31. page 13

46: COMPARISON WITH EXISTING MAPS:

A comparison was made with a topographic map of Nushagak District, Alaska, U.S. Geological Survey Scale 1:250,000 dated 1930, 1931.

A comparison was made with World Aeronautical chart, Kodiak Island (136) Alaska, Scale 1:1,000,000, Seventh Edition-March 2, 1949.

The general appearance of the area is in agreement.

47: COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Nautical Chart No. 9050, Scale 1:150,000 last printed date 7/14/45, hand corrected 6/23/46 and 4/11/49, and nautical chart No. 8802, Scale 1:1,023,188 at Latitude 56° 00', last printed 1/12/46, hand corrected 11/7/47 and 6/11/51.

The shoreline shown on the map manuscript is more detailed than that shown on the charts.

Approved:

Charles W. Clark

Charles W. Clark

Respectfully submitted:

J. Edward Deal Jr.

J. Edward Deal, Jr.
Cartographer

COMPILATION REPORT

Washington Office

31: DELINEATION:

Contours were delineated on the Reading Plotter, Model "A". Planimetry which had been graphically compiled on the manuscript, was shifted to meet the control established by the last radial plot, the plot on which the contour compilation was based.

32: CONTROL:

Adequate

33: SUPPLEMENTAL DATA:

a. Photographs used for instrument delineation: 20418 thru 20421, 23345 thru 23348 and 23383 thru 23386
b. Field Inspection photographs: West shore of Weary River only. See Side-Heading 35 of this report.
c. Graphic Control Surveys:
   (1) T-3085, Mountain Peaks Northwest of Nushagak Bay 1909 1:100,000.
   (2) T-3091, Nushagak Bay, Mouth of Igushik River, 1910, 1:10,000
   (3) T-2968, Nushagak Bay, Igushik River to Snake River, 1909, 1:20,000.

34: CONTOURS AND DRAINAGE:

Instrument photography was satisfactory for contour delineation. 20418 thru 20421 were not of the best definition quality, however.

35: SHORELINE AND ALONGSHORE DETAILS:

See page 11, this report.

36: OFFSHORE DETAILS:

Not applicable.

37: LANDMARKS AND AIDS:

The seasons reports of the PATHFINDER for 1947, 1948, and 1949, were examined and no reference to landmarks or aids could be found. Refer to project report by A. N. Stewart, 1947, entitled, "Aerial Photograph Control and Inspection, Bristol Bay, Alaska." None.

38: CONTROL FOR FUTURE SURVEYS:

See Sub-Heading 38, Page 11 of this report.

39: JUNCTIONS:

Details on this manuscript, both planimetric and topographic, are matched satisfactorily with adjoining quads, T-9047 to the north, T-9056 to the west, and T-9065 to the south. Ref par 39 on page 11, and par 31 on page 13.

40: HORIZONTAL AND VERTICAL ACCURACY:

Standard.

46: COMPARISON WITH EXISTING MAPS:

In addition to data listed under Side-Heading 46 on Page 11, a comparison was made with Alaska Reconnaissance Topographic Series, Third Judicial District, Nushagak Bay, Alaska, 1:250,000, 1949, USGS.

47: COMPARISON WITH NAUTICAL CHARTS:

See Page 12, this report.

48: GEOGRAPHIC NAME LIST: See separate page attached. page 16

49: NOTES FOR THE HYDROGRAPHER: None

50: COMPILATION OFFICE REVIEW: See T-2 form following.

Submitted:

Orvis N. Dalbey
Orvis N. Dalbey
Cartographer - Photogrammetric

Approved and Forwarded:

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

Form T-2

PHOTOGRAMMETRIC OFFICE REVIEW

T-9057

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 N 8. Bench marks N

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

✓ = checked
N = non-existant

ALONGSHORE AREAS
(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

27. Roads _____ 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. Orin M. Dalby
Reviewer

Louis O. Reed, Chief
Supervisor, Review Section or Unit
Stereoscopic Mapping Section.

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

T-9057.

Geographic Names.

Alaska

Nushagak ~~Igushik~~ Peninsula (for title only)
Igushik River
Igushik Ridge
Snake River
Nushagak Bay

Names underlined in red
are approved. 9-22-52
L. Heck

REVIEW REPORT T-9057
Topographic Map
September 22, 1952

62. Comparison with Registered Topographic Surveys.-

T-2968	1:20,000	1909
T-3091	1:10,000	1910
T-3085	1:100,000	1909

The map manuscript supersedes these surveys for nautical charting purposes.

63. Comparison with maps of other Agencies.-

Nushagak Bay, Alaska 1:250,000, 1943 - USGS
This map supersedes the USGS map in all respects in the area common to both.

64. Comparison with Contemporary Hydrographic Surveys.- None

65. Comparison with Nautical Charts.-See 47. Page 12
T-9057 shoreline has not been applied to these charts. Marsh areas and more complete detail on the mud flat foreshore limits are available.

66. Adequacy of Results and Future Surveys.-No field inspection was available for interior or shoreline delineation. Likewise, the marsh areas and the drainage pattern is entirely from office interpretation. The offshore limits of tidal areas are shown as they appear at the time of exposure and are perhaps more extensive at MLLW.

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

Reviewed by:

Roscoe J. French
R. J. French

APPROVED -

S. V. Griffith
Chief, Review Section
Div. of Photogrammetry

H. R. Edmonston
Chief, Nautical Chart Branch
Division of Charts

O. I. Reading
Chief, Div. of Photogrammetry

Earl O. Hinton
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