9239

ORIGINAL

Diag. Cht. Nos. 8802, 9103, & 9302.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. Ph-8B (46) *Office No.* T-9239

LOCALITY

State Alaska

General locality Bristol Bay Area

Locality KINEGNAK

1948

CHIEF OF PARTY

A. Newton Stewart, Chief of Field Party
Charles W. Clark, Chief of Radial Plot Office
Div of Photogrammetry, Washington

LIBRARY & ARCHIVES

DATE November 21, 1955

8-1870-1 (1)

9239

DATA RECORD

T-9239

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

Field Office (II): Platinum, Alaska Chief of Party: A. Newton Stewat

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

Instructions dated (II) (III): 21 Apr 48 -- Field
4 Feb 49 -- Office

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): NOV 15 1950 Date reported to Nautical Chart Branch (IV): NOV 20 1950

Applied to Chart No. Date: Date registered (IV): 8-17-55

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 and N.A. 1927 Datum is Lat. plus/~~minus~~ 16m. and Long. ~~plus~~/minus 3m. ✓ L.C.L.

Reference Station (III):

Lat.: Long.:

Adjusted ✓
~~Adjusted~~
Unadjusted

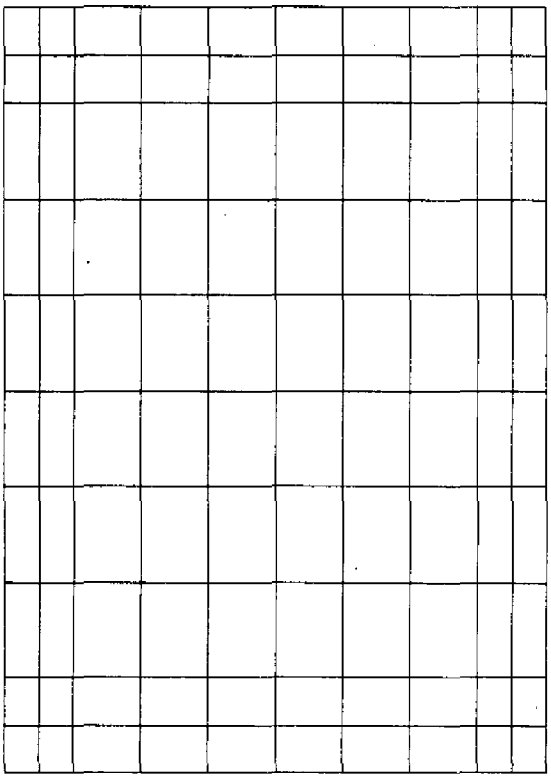
Plane Coordinates (IV): State: Zone:

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.

M-2618-12(4)



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

Louis Levin
and
Clarence E. Misfeldt

PART II
CLARENCE E. MISFELDT

DATA RECORD

Field Inspection by (II): A. Newton Stewart Date: 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 shoreline is dated 1948 since it was field located that year. Manuscript shoreline is as office compiled using the field inspection as a guide.

Projection and Grids ruled by (IV): Ruling machine Date: 6 Sep 49

Projection and Grids checked by (IV): Theodore L. Janson Date: 6 Sep 49

Control plotted by (III): James L. Harris(Portland Office) Date: 12 Dec 49

Control checked by (III): Marie B. Elrod (Portland Office) Date: 27 Dec 49

Radial Plot ~~XXXXXXXXX~~ ~~XXXXXXXXX~~ by (III): James L. Harris and J.E.Deal (Portland Office) Date: 20 Jun 50
L.C. LANDE ——— 23 MAY 52

Stereoscopic Instrument delineation by (III): Planimetry and Contours Louis Levin and Clarence E. Misfeldt Date: 18 Oct 50
CLARENCE E. MISFELDT — 2 JUL 52

Manuscript ~~XXXXXX~~ compiled by (III): John B. McDonald Date: 10 Nov 50
ROBERT L. SUGDEN ——— 24 JUL 52

Photogrammetric Office Review by (III): Louis J. Reed Date: 15 Nov 50
" ——— 12 AUG 52

Elevations on Manuscript checked by ~~XX~~ (III): Louis J. Reed Date: 15 Nov 50
" ——— 12 AUG 52

Camera (kind or source) (III):

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
20540 thru 20542	24 Aug 47	*	1:20,000	———
23174 23175 23176	1 Sep 48	11:52	1:20,000	3.0 ft below MSL

* Camera clock not functioning.

28440-41 — 8 Aug 50
28448-49 — "
20514-15 — 24 " 47

Tide (III)

Diurnal		
Ratio of Ranges	Mean Range	Range
*2.8	6.2	8.9

* = Ratio of rise for high waters.

Reference Station: Matarani, Peru
Subordinate Station: Goodnews Bay entrance, Alaska
Subordinate Station:

Washington Office Review by (IV): B. J. COLNER Date: 1/28/53

Final Drafting by (IV): M.J. Bay Date: 4/7/55

Drafting verified for reproduction by (IV): Date:

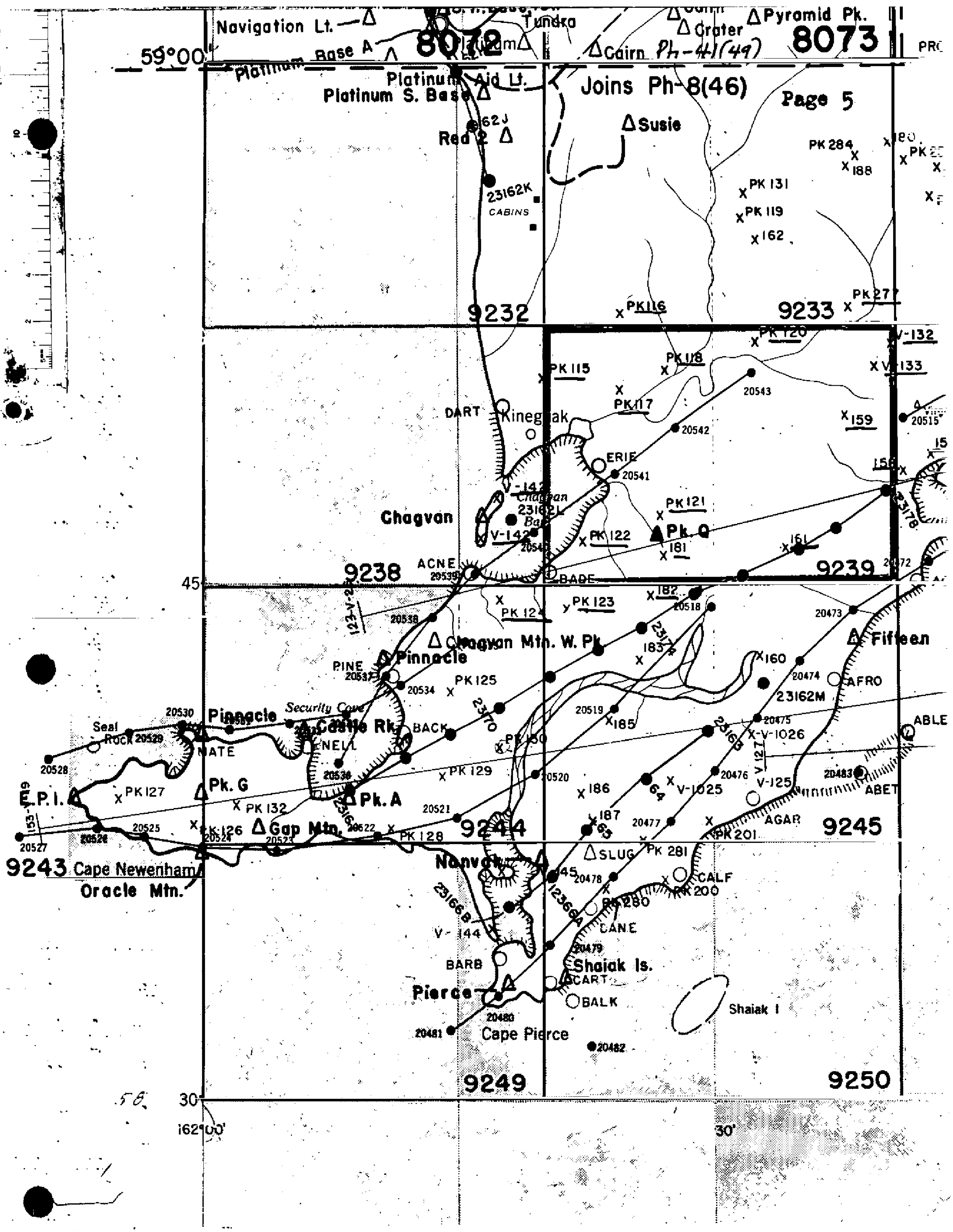
Proof Edit by (IV): Date:

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
Control Leveling - Miles (II): none
Number of Triangulation Stations searched for (II): 1 Recovered: 1 Identified: 1
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): 4

Remarks:

	Plot No 3	Goodnews Bay Plot Ph-40	Total
Land area =	68 sq mi	+ 35 sq mi	* 103 sq mi
Shoreline =	4.5 miles	+ 0 " "	= 4½ mi.

Cape Newenham to Goodnews Bay
Times of high and low waters subtract 10 minutes
Heights of high waters multiply by ratio 2.8
" " low " " " " " 2.0
Subtract 3.7 feet to refer heights to MSL


Navigation Lt.
Tundra
Crater
Pyramid Pk.
8072
8073
59°00'
Platinum Base
Cairn Ph-41(49)
Platinum Aid Lt.
Platinum S. Base
Joins Ph-8(46)
Page 5
Susie
Red 2
23162K
CABINS
PK 284
PK 131
PK 119
162
9232
PK 116
9233
PK 277
PK 120
V-132
PK 118
PK 115
V-133
20543
PK 117
DART
Kinegnak
20542
159
ERIE
20541
V-142
Chagvan Bay
23162L
Chagvan
PK 121
Pk. Q
PK 122
181
161
ACNE
20539
9238
BADE
9239
45
PK 124
PK 123
182
20518
20473
20538
Chagvan Mtn. W. Pk.
Fifteen
Pinnacle
PINE
PK 125
160
20474
AFRO
20534
23162M
Security Cove
Pinnacle
20530
Seal Rock
Castle Rk.
BACK
NELL
NATE
20519
185
20475
ABLE
X-V-1026
20528
PK 130
PK 129
20536
Pk. A
186
V-1025
20476
V-125
20483
ABET
E.P.I.
PK 127
Pk. G
PK 132
20520
20521
187
PK 126
Gap Mtn.
20522
PK 128
9244
20477
AGAR
9245
20525
20524
20523
20527
9243 Cape Newenham
Oracle Mtn.
Nanvak
SLUG
PK 281
PK 201
20478
CALF
PK 200
PK 280
CANE
V-144
20479
BARB
Shaiak Is.
CART
Pierce
BALK
Shaiak I
20480
20481
Cape Pierce
20482
9249
9250
30
162°00'
30'

c

Summary to Accompany T-9239

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-9239 contains a small portion of Chagvan Bay and the village of Kinegnak.

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 lighographic 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

Refer to:

"Project Report, Aerial Photograph Control and Inspection, Bristol Bay, Alaska", Project Ph-8B(46), May to July 1948, by A. Newton Stewart, Chief of Party.

RADIAL PLOT REPORT

See descriptive report for T-9238 for the major portion of the area in the south, and see descriptive report covering the south portion of Ph-41 (Goodnews Bay Plot)*, which extends southward into the northern limits of this quad. This Goodnews Bay Plot will be laid at a later date after the completion of this report.

* PART II
See Report T-9232

COMPILATIN REPORT

31 Delineation:

Contours, shoreline and all cultural features were delineated simultaneously on the Reading Plotter, Model "A". Photo coverage was not complete at the time of this compilation and report, October 1950; the northern portion of the manuscript is not covered and therefore not compiled. However, 1950 photo coverage now exists and the bare areas will be completed* as a portion of Ph-41 (Goodnews Bay Plot) when junction is made between the two projects. See side-heading ~~51, which will be written at the time the manuscript is finished, covering the completion phase of the compilation.~~ 52

* Has been completed. ctr

32. Control:

The radial plot report (Plot No 3) stated that field selection and identification of control was very poor but after considerable consultation with field personnel that did the work, adequate stations to control the radial plot were identified. This office made a thorough study of the station identification and agrees with the Portland Office as regards the quality of the field work. However, no alteration of the plot was considered feasible and the plot was accepted. Actually, only one horizontal control station exists within the limits of this manuscript, PEAK Q, 1948.

Vertical control was furnished primarily by elevations established by the field party on peaks; see control sketch on page 5. A mile or two of shoreline also provided some sea-level base for rectification and contouring purposes.

33. Supplemental Data:

a. Plotting instrument photographs:

20514, 15
20540, 1, 2; 23174, 6, 8 (9-lens metal mounted)
28440, 41, 48, 49.

b. Field inspection photographs:

20540 and 20541 (9-lens field prints on paper)

c. Graphic control surveys:

(1) T-3310, West Coast of Alaska, Bering Sea, Security Cove, by Explorer, R.S.Patton, 1912, 1:20,000.
(2) T-3311 & 12, Alaska-West Coast, Cape Newenham to Chagvan Bay, and Chagvan Bay to Goodnews Bay, Explorer, R.S.Patton, 1912, 1:20,000.

d. Hydrographic Surveys:

(1) H-3409, Alaska - West Coast - Bering Sea - Cape Newenham, Explorer, R.S. Patton, Sep 1912, 1:60,000.
(2) H-3410, Alaska - West Coast - Bering Sea - Security Cove, Explorer, R.S.Patton, 1912, 1;20,000.

34. Contours and Drainage:

No particular difficulty was had with the photography other than photographic quality which could have been improved somewhat, and no areas of questionable contours exist.

35. Shoreline and alongshore details:

Field inspection was adequate. Approximate low-water lines shown on the manuscript are instrument delineated using field inspection as a guide.

36. Offshore details: Not applicable.

37. Landmarks and aids: None.

38. Control for future surveys:

Reference side-heading No 49 of this report, "Notes to the hydrographer", where recoverable topo stations are listed. All have been located by the radial plot and are shown by name and symbol on the map manuscript. A 524 card was furnished for the topo station located on this quadrangle, ERME, 1948. No hydro stations fell within the limits of this map.

39. Junctions:

This map sheet joins T-9233, T-9238, T-9240, and T-9245. All junctions are in agreement, ~~where compilation of this radial plot area crosses the margins.~~

40. Horizontal and vertical accuracy: Standard.
41. Junction of Radial Plots : See following page.
46. Comparison with existing maps:

a. USGS Alaska Map 50, Platinum and Vicinity, Alaska, 1:62,500, 1938 edition.
b. USGS Alaska Map 18, Goodnews District, Alaska, 1:250,000, 1938 edition.

47. Comparison with nautical charts:

Chart No 9103, Kuskokwim Bay, 1:200,000, published September 1916 (2nd edition), last correction 21 Apr 47.

48. Geographic name list: See separate page, following.

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

50. Compilation office review: See T-2 form, following.

51.
41. JUNCTION OF RADIAL PLOTS:

In the Radial Plot Report covering the north quarter of this quad, it is indicated that a perfect junction was not effected with the previous plot which covered the south portion. During compilation, the secondary points of the northern plot were held to, and an adjustment was carried south into the already compiled area a distance to which it was judged necessary to go to achieve the required accuracy. (Photogrammetric Plot Report for Project Ph-41 filed as part of Descriptive Report for T-9232)

Submitted by:

Orvis N. Dalbey
Cartographer-
Photogrammetric

Approved and forwarded by:

Louis J. Reed, Chief
Stereoscopic Mapping
Section.

49. Notes for the hydrographer:

Hydrographic Stations:

None

Topographic Stations:

ERIE, 1948

GEOGRAPHIC NAMES

Survey No.

T-9239

Name on Survey	On Chart No. A	On previous survey No. B	On U. S. quadrangle Maps C	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K
							Page 12.		
Chagvan Bay									
Kinegnak VILLAGE									
Kinegnak River									
Kookukluk Creek									
Shaw Creek									
Unaluk River									
				Names underlined in red approved 1-28-53 L. Hack					
Third Judicial Division									
Fourth Judicial Division									

REVIEW REPORT T-9239
Topographic Map
January 28, 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. -

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-9239 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:

H. J. Colner

Approved by:

L C Lande
Chief, Review Section
Div. of Photogrammetry

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

W W Swanson
Chief, Div. of Photogrammetry
28 Sept. 1955

Earl O. Heaton
Chief, Div. of Coastal Surveys

Form T-2

PHOTOGRAMMETRIC OFFICE REVIEW

T- 9239

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. N 15. Bridges N 16. Aids to navigation N 17. Landmarks N 18. Other alongshore physical features N 19. Other alongshore cultural features N

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 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. [signature] Reviewer — Louis J. Reed, Chief, Stereoscopic Mapping Section — Supervisor, Review Section or Unit

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-2661-12

NAUTICAL CHARTS BRANCH

SURVEY NO. T 9239

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
Feb 1958	9103	L.S.S.	~~Before~~ After Verification and Review SMA
12-24-69	9103	H. Radke	considered adequate appd until reconstructed ~~Before~~ After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.
Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.