Diag. Cnt. No. 9400.

Form 504

U.S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey... Topographic
Field No... Ph-28(47)... Office No... T-9417, T-9418, and T-11335.

LOCALITY
State... Alaska
General locality... Point Hope
Locality... Cape Dyer

1948-51

CHIEF OF PARTY
P. Taylor, Chief of Field Party.
J. C. Sammons, Chief B'more Photo. Office
L. J. Reed, Div. of Photo., Wash., D.C.

LIBRARY & ARCHIVES

DATE... March 10, 1958
DATA RECORD

T - 9417, 9418, and T-11335

T-9417 = CAPE LEWIS
T-9418 = AKALOOLICK CREEK
T-11335 = LISBURN HILLS

Project No. (II): Ph-28(47) Quadrangle Name (IV):

Field Office (II): Portland, Oregon Chief of Party: Paul Taylor

Photogrammetric Office (III):

Instructions dated (II) (III): Supplement 3 dated 4/12/51 Officer-in-Charge:

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Reading Nine-Lens Plotter

Manuscript Scale (III): 1:20,000

Stereoscopic Plotting Instrument Scale, (III):

Scale Factor (III): 1:1

Date received in Washington Office (IV): 5 3 1954 Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 7 June 1957

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): NA 1927 (Unadjusted) Vertical Datum (III):

Mean sea level except as follows:
Elevations shown as (26) refer to mean high water
Elevations shown as (25) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III):

Lat.: Long.: Adjusted

Unadjusted

Plane Coordinates (IV):

State: Zone:

Y = X =

Universal Transverse Mercator Grid, Zone 3, interval of 2500m.

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)
(A) (III)

Alternate models of the compilation area were delineated as follows:

On Reading Plotter, model "A" by: Clarence E. Misfeldt
On Reading Plotter, model "B" by: Louis Levin
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<td>Date</td>
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<td>Completion Surveys by (II)</td>
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<td>Mean High Water Location (III)</td>
<td>The MHWL is dated 1951 since it was delineated on the plotting instruments guided by 1951 field identification of the shoreline on nine-lens field photographs.</td>
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<tr>
<td>Projection and Grids ruled by (IV)</td>
<td>Austin Riley on the Reading Ruling Machine</td>
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<tr>
<td>Date</td>
<td>12 Oct 53</td>
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<tr>
<td>Projection and Grids checked by (IV)</td>
<td>Charles Hanovich</td>
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<td>Date</td>
<td>12 Nov 53</td>
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<td>Control plotted by (III)</td>
<td>Wayne L. Lineweaver</td>
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<tr>
<td>Date</td>
<td>3 Jun 53</td>
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<td>Date</td>
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<td>Elmer L. Williams</td>
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<td>verified by</td>
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Reference Station: Icy Cape
Subordinate Station: None
Subordinate Station: None

Washington Office Review by (IV): K. N. Moki
F. Johnson T-9417
Date: 25 Jan 1955

Final Drafting by (IV): F. Johnson T-9417
J. F. Rogers T-11335
Date: 25 Jan 1955

Drafting verified for reproduction by (IV): W. O. Fullerton
Date: 25 Jan 1955

Proof Edit by (IV):

Land Area (Sq. Statute Miles (III)): T-9417 = 45 sq mi; T-9418 = 56 sq mi; T-11335 = 54 sq mi

Shoreline (More than 200 meters to opposite shore) (III): 9417 & 18 = 9 mi each; 11335 = none at all

Control Leveling - Miles (II): None

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

Number of Recoverable Photo Stations established (III): One (on T-9418)

Number of Temporary Photo Hydro Stations established (III): Two each on T-9417 & 18 (only)

Remarks: None in 1964.
Compiled at 1:20,000 scale, from 1:20,000 scale nine-lens photographs taken July, 1950 and June, 1951. For additional nine-lens photography refer to:
Air-photo Index A-38 (1:20,000 scale, taken September 1947) Air-photo Index B-3 (1:28,000 scale taken Sept. 1947) Air-photo index B-13 (1:20,000 scale, taken September 1947 and August 1948)

For single-lens photography on which some field work was done refer to:
Air-photo Index A-11 (1:27,500 scale, taken August 1948) Air-photo Index A-23 (1:27,500 scale, taken August, 1948, and 1:40,000 scale, August, 1950)
Air-photo Index A-24 (1:27,500 scale, August, 1948) Air-photo Index A-36 (1:40,000 scale, August, 1950)

For photography of other agencies on which some field work was done refer to:
Alaskan WAC 64 Index (1949 Naval Petroleum Reserve photography, scale 1:20,000 and 1946 Air-Force TRI-MET photography, scale 1:24,000)
Summary to Accompany Descriptive Report
T-9417, T-9418 and T-11335

Topographic maps T-9417, T-9418 and T-11335 in project Ph-28
cover the coastal area of the Chukchi Sea from the vicinity of
Kiliahlik Point at latitude 68° 30', north to latitude 68° 45' in
the vicinity of Oaklin Creek and Cape Lewis and partial coverage
eastward to longitude 165° 30'. These maps were compiled on the
9-lens Reading Plotter. Field operations preceding compilation
included field inspection, establishment of horizontal control and
the determination of elevations required to control a stereo-
instrument project vertically. Compilation was at a scale of
1:20,000. Contours were drawn at a 50-foot interval with 25-foot
interval supplemental contours. The maps were not field edited.

A cloth-backed lithographic print of each map at manuscript
scale, and the combined descriptive report, will be registered and
permanently filed in the Bureau Archives.
FIELD INSPECTION REPORT

2-20 See separate report with title exactly as follows:

SEASON'S REPORT

and

FIELD INSPECTION REPORT

Marryatt Inlet to Cape Beaufort, Alaska

Project Ph-26(47)

Season 1951

Paul Taylor Chief of Party
PHOTOGRAMMETRIC PLOT REPORT

PROJECT FH-28(47)

SURVEYS T-9410 and T-9411, T-9417 to T-9420, incl.

21. AREA COVERED

This radial plot covers the areas of Surveys T-9410, T-9411, and T-9417 to T-9420, inclusive. These are topographic surveys situated along the shore of the Arctic Ocean from Point Hope north to Cape Lisburne.

22. METHOD - RADIAL PLOT

Map Manuscripts:

Vynlite sheets at a scale of 1:20,000, with polyconic projections in black and Universal Transverse Mercator grids in red, were furnished by the Washington office. No base sheets were needed because the radial plot was constructed directly on the map manuscripts.

Map manuscripts for Surveys T-9422 and T-9423 which had been compiled previously were used in this plot to insure a good junction between the plots.

All control stations and substitute stations were plotted using beam compass and meter bar.

A sketch showing the layout of these surveys and the distribution of photograph centers and control is attached to this report.

Photographs:

All photographs used are nine-lens metal mounted photographs at a scale of 1:20,000. Fifty (50) photographs were used in this radial plot, numbered as follows:

22723 thru 22727 incl.
27638 thru 27640 "
27651 and 27685 .
27727 and 27728
37908 thru 37917 incl.
37925 thru 37927 incl.
37930 thru 37933 incl.
37936 thru 37944 incl.
37949 thru 37954 incl.
37956 thru 37959 incl.
38017 and 38048

The symbols used on the photographs were given in special instructions for all radial plots using nine-lens photographs which will be used later with the Reading Plotter.
22. _METHOD & RADIAL PLOT (CONT'D)_

_Templats:_

Vinylite templats from the radial plot already completed to the south were returned by the Washington office for use in this plot. Vinylite templats were made from all the more recent photographs using a master templat furnished by the Washington office to adjust for errors due to chamber displacements. Radial lines were scratched on the templats with a sharp needle point and the scratches filled in with china marking pencil. Red pencil was used for all shoreline (rectification) pass points and black pencil for all other radial lines.

_Closure and Adjustment to Control:_

The radial plot was constructed directly on the map manuscripts. A preliminary plot was laid to determine whether there were any badly tilted photographs. Photograph 27651, which had been reported as a tilted photograph in a previous plot for Surveys T-9421 to T-9427 incl., was found to be considerably tilted and was adjusted to the manuscript after the plot was completed. Photograph 37954 was found to be tilted and was laid on top of the other templats. Photographs 37936 thru 37939 of a flight beginning at Cape Lisburne were all tilted. A tilt determination was made for photograph 37938 by the scale-point method and a new templat corrected for tilt was made. This made the plot much more rigid in this area and permitted the by-passing of photograph 37939 which was adjusted last. Three other photographs appeared to have some tilt but not enough to affect the radial plot adversely.

The final plot was laid beginning at the southern end where all points along the junction had been established in the previous plot. It was extended from there northerly to Cape Lisburne and then easterly.

All control was held in this plot except sub pt. EESOJC, 1951. The Station, EESOJC, 1951, was identified and held in the plot.

_Transfer of Points:_

The positions of all centers, pass points and control stations were pricked on the top templats and circled with 3 mm. blue circles. The positions were established on the remaining templats and map manuscripts by drilling down through them with a small (.01 inch) jewelers drill. All points were circled on each templat as it was removed, and on the manuscript.

23. _ADEQUACY OF CONTROL_

There was adequate control throughout this radial plot. All the stations were held except as noted in paragraph 22 under Closure and Adjustment of Control.

WEVUK, 1951, which has considerable elevation would not hold on the badly tilted photograph 37939. It was held in the plot with all other photographs.
SUPPLEMENTAL CONTROL

None.

PHOTOGRAPHY

Photographic coverage was adequate for all areas of the surveys in this plot.

The definition of all photography is good. As already recommended in a previous radial plot report photograph 27651 should not be used. Photograph 37954 is considerably tilted. No tilt determination was made because it was not necessary for the plot. Rectification will probably make it alright for compilation because it is an important photograph. As mentioned in paragraph 22, a tilt determination was made for photograph 37938, by the scale-point method. A new template was made using a point midway between the nadir point and the isocenter for a radial center.

VERTICAL CONTROL

The following discrepancies were noted during computations of elevations following the establishment of their positions in the radial plot:

PEAK 815 (Survey T-94118): The elevation obtained from two stations did not check by 3.4 meters. It is possible that two different points were observed because this peak has a long flat top. In addition, the horizontal angles do not agree with the position established in the plot. The elevation for PEAK 815, should be considered weak.

PEAK 818 (Survey T-94118) and PEAK 826 (Survey T-94117): The elevation obtained for PEAK 818 from SLAB ROCK 1951, does not agree with that obtained from CONTROL 1951, by +63.8 meters.

The elevation obtained for PEAK 826, from CAPE Dyer 1951, does not agree with that obtained from CONTROL 1951, by +22.3 meters.

For both of these peaks the observations from CONTROL 1951, were rejected arbitrarily because of repeated instances of the observations from CONTROL 1951, to the various vertical control points unaccountably giving difficulty in the computations. PEAK 816, and PEAK 822, are the instances in which the observations from CONTROL 1951, had to be rejected. In the case of PEAK 816, the elevation obtained from two other stations failed to agree with that from CONTROL 1951, by +12.9 meters. In the case of PEAK 822, the elevation obtained from two other stations failed to agree with that from CONTROL 1951, by +7.9 meters. In all such cases the identification of the points and the horizontal angles were checked.

PEAK 823 (Survey T-94118): The elevation for this peak has been completely rejected.

The elevation obtained from BIG EAR, 1951, to this peak is higher by 53.7 meters than the elevation of PEAK 815. This is an evident error because PEAK 815, appears relatively higher than PEAK 823, on the
26. **VERTICAL CONTROL (CONT'D)**

photographs.

Therefore, the observation from BIG EAR, 1951, to PEAK 823, was not acceptable.

The elevation of PEAK 823, obtained from CONTROL 1951, was lower by 2.1 meters than the elevation of PEAK 815, and may be the current elevation of PEAK 823. However, because of the difficulties experienced with other observations from CONTROL 1951, the elevation obtained for PEAK 823, is of doubtful value.

Respectfully submitted
17 August 1953

Elmer L. Williams
Carto. Photo. Aid

Approved and Forwarded
August 1953

Jack C. Sammons,
Officer in Charge
<table>
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<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
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<th>LONGITUDE OR x-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)</th>
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31. Delineation:

Contours and cultural features were delineated simultaneously on the Reading Plotters as shown on page 2, this report. All the land area has been delineated on T-9417 and T-9418, but only the NW half of T-11335 has been mapped since photo coverage and control for the balance of the quad was lacking.

32. Control: Adequate; see side-heading 23, page 9, this report.

33. Supplemental Data:


d. Official Name Sheet: Map prepared and signed by Mr. Heck.

34. Contours and Drainage:

Photograph quality was good for contouring purposes and no areas of questionable contours remain.

35. Shoreline and Alongshore Details:

Shoreline inspection was adequate, and it was used as a guide during the instrument delineation of the MML. No low water or shoal lines were located, field or office.

36. Offshore Details: Not applicable; none exist.

37. Landmarks and Aids:

No navigation aids exist in the area but the field inspector recommended the charting of one landmark on T-9418: Twin Mtns, EEVEAGEEK MtNS, 68°37'00" by 166°13'25", coordinates taken from the completed manuscript geographic position.
38. **Control for Future Surveys:** See side-heading 49 below.

39. **Junctions:**

   All junctions are in agreement since all quads of this report have been compiled simultaneously with each other and with adjoining quads to the north and south.

40. **Horizontal and Vertical Accuracy:**

   These quads meet the requirements established by National Map Accuracy Standards for maps of a scale of 1:20,000 showing relief by means of contours at a 50ft interval. The supplemental 25ft contour used occasionally in relatively flat areas is even more accurate because of its nearness to datum.

46. **Comparison with Existing Maps:**

   "ALASKA RECONNAISSANCE TOPOGRAPHIC SERIES, SECOND JUDICIAL DIVISION, POINT HOPE, ALASKA, 1:250,000, USGS, 1952."

47. **Comparison with Nautical Charts:**


   b. Provisional Chart, CAPE PRINCE OF WALES TO POINT BARROW, CHUKCHI SEA, Alaska–Arctic Coast, No.9402, 1:750,000, May 1950, 1st edition.

48. **Geographic Name List:** See page 17, this report.

49. **Notes for the Hydrographer:** See page following, unnumbered.

50. **Compilation Office Review:** See separate page 18 following.

**SUBMITTED BY:**

[Signature]

Orvis M. Dallbey, Chief,
Nine-Lens Plotting Instrument Section

**APPROVED AND FORWARDED BY:**

[Signature]

Louis J. Reed, Chief
Stereoscopic Mapping Branch
Photogrammetric Engineer
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Names approved 1-21-58. J. Heck
PHOTOGRAMMETRIC OFFICE REVIEW
T. 9417, 9418, 11335

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

ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline
13. Low-water line
14. Rocks, shoals, etc.
15. Bridges
16. Aids to navigation
17. Landmarks
18. Other alongshore physical features
19. Other alongshore cultural features

PHYSICAL FEATURES
20. Water features
21. Natural ground cover
22. Planetary contours
23. Stereoscopic instrument contours
24. Contours in general
25. Spot elevations
26. Other physical features

CULTURAL FEATURES
27. Roads
28. Buildings
29. Railroads
30. Other cultural features

BOUNDARIES
31. Boundary lines
32. Public land lines

MISCELLANEOUS
33. Geographic names
34. Junctions
35. Legibility of the manuscript
36. Discrepancy overlay
37. Description report
38. Field inspection photographs
39. Forms
40.

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:
Review Report T-9417, T-9418 and T-11335
Topographic Maps
25 January 1955

62. **Comparison with Registered Topographic Surveys:**

   T-2337 rec. 1:1,000,000 1898

   The area of these surveys is covered by T-2337 which is a reconnaissance sketch credited to the work of a native attached to the survey party.

63. **Comparison with Maps of Other Agencies:**

   Point Hope, Alaska (Reconnaissance) U.S.G.S., 1:250,000, 1952

   No effective comparison can be made between these surveys and the U.S.G.S. survey because of the small scale and generalized detail of the latter.

64. **Comparison with Contemporary Hydrographic Surveys:**

   No hydrographic surveys have been accomplished by the Bureau in the area of these maps.

65. **Comparison with Nautical Charts:**

   9400 1:1,587,870, corrected to 6/30/52

   The small scale of the chart precludes any comparison between the chart and these surveys.

66. **Adequacy of Results and Future Surveys:**

   These maps are adequate for use in hydrographic surveys and the construction of nautical charts. These maps meet the National Standard of Map Accuracy.

Reviewed by:

K. N. Maki

APPROVED:

[Signatures]

Chief, Review Section
Photogrammetry Division

Chief, Nautical Chart Branch
Charts Division

Chief, Photogrammetry Division

Chief, Coastal Surveys Division